



WÜRTH CANADA MASTER CATALOGUE

Complete Range • January 2021





"We strive to deliver EXCEPTIONAL EXPERIENCE to our customers through BOLD INNOVATION & by ACTIVELY LISTENING to their needs."

As Würth Canada's celebrates our 50th Anniversary in 2021, we are proud to be a trusted supplier and **business partner to over 39,000 customers** in the Automotive, Trucking, MRO, Industrial, Installation, Manufacturing and Construction businesses. Our Master Catalogue includes **over 15,000 active products** to support all your needs.

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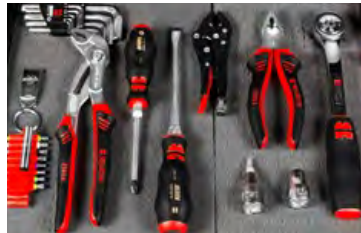
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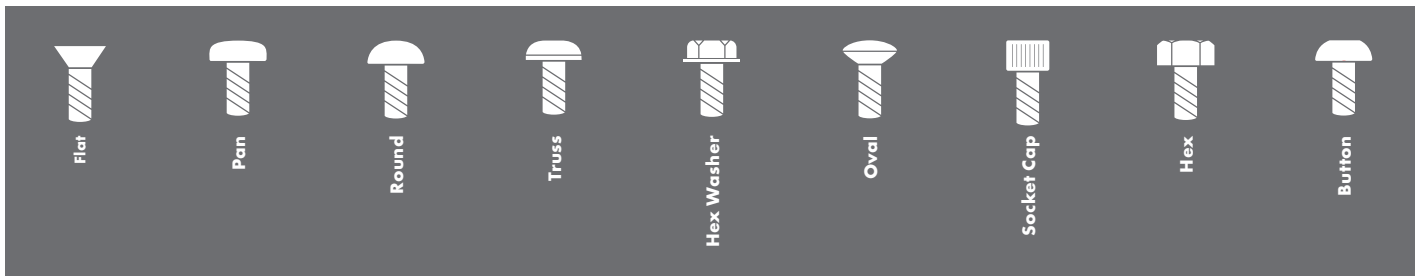
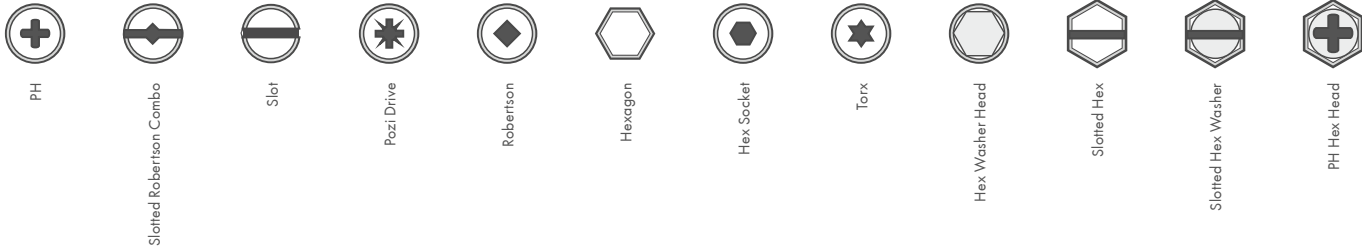
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FASTENER IDENTIFICATION

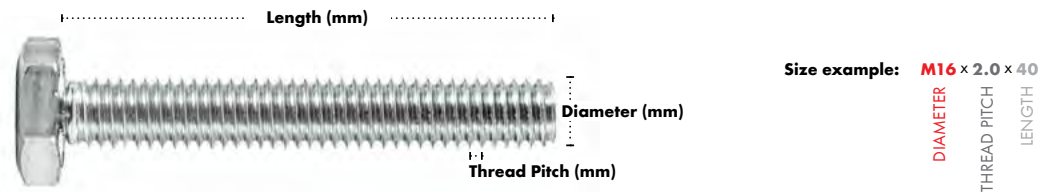


Stainless Steel

| Type | Characteristics | Tensile strength | Common applications |
|-------------------------|--|---|--|
| 316 | Can corrode if placed in environments with insufficient Oxygen | 85,000-140,000 psi Best option for High Temperature Environments | Industrial Environments using Chlorides and Sulfates (Sulfuric Acid) |
| 301, 302, 303, 304, 305 | Non-Magnetic Recognized as 18-8 18% Chromium & 8% Nickel | 85,000-150,000 psi | Food, Dairy, Pulp & Paper, Pharmaceutical, Marine, Medical, etc. |
| 400, 410, 416, 420 | Magnetic | 180,000-250,000 psi When Heat Treated | Mild atmospheres requiring higher tensile strengths. |

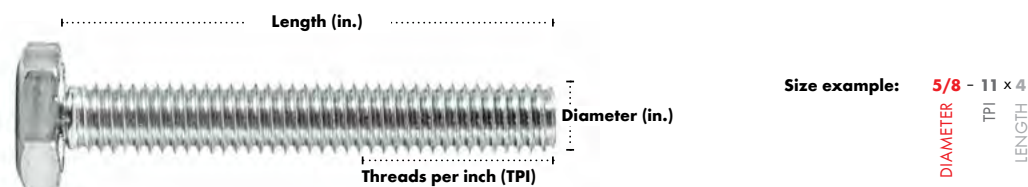
| Inch | | Metric | | |
|---------|----------|-------------|------------|------------|
| UNC | UNF | Coarse | Fine | Extra Fine |
| 1-64 | 1-72 | M2 x 0.4 | | |
| 3-48 | 3-56 | M2.5 x 0.45 | | |
| 4-40 | 4-48 | M3 x 0.5 | | |
| 6-32 | 6-40 | M3.5 x 0.6 | | |
| 8-32 | 8-36 | M4 x 0.7 | | |
| 10-24 | 10-32 | M5 x 0.8 | | |
| 1/4-20 | 1/4-28 | M6 x 1 | | |
| 5/16-18 | 5/16-24 | M8 x 1.25 | M8 x 1.0 | |
| 3/8-16 | 3/8-24 | M10 x 1.5 | M10 x 1.25 | M10 x 1.0 |
| 7/16-14 | 7/16-20 | M12 x 1.75 | M12 x 1.5 | M12 1.25 |
| 1/2-13 | 1/2-20 | M14 x 2 | M14 x 1.5 | M14 1.25 |
| 5/8-11 | 5/8-18 | M16 x 2 | M16 x 1.5 | |
| 3/4-10 | 3/4-16 | M18 x 2.5 | M18 x 1.5 | |
| 7/8-9 | 7/8-14 | M20 x 2.5 | M20 x 2.0 | M20 x 1.5 |
| 1-8 | 1-14 | M24 x 3 | M24 x 2.0 | |
| 1-1/8-7 | 1-1/8-12 | M30 x 3.5 | M30 x 2.0 | |
| 1-1/4-7 | 1-1/4-12 | M36 x 4 | | |

METRIC BOLT IDENTIFICATION



| Head Marking | Standard and Class | Material | Nominal Size Range (mm) | Mechanical Properties | | | Imperial Approximate |
|--------------|----------------------|--|-------------------------|-----------------------|---------------------------|-----------------------------|----------------------|
| | | | | Proof Load (psi) | Min. Yield Strength (psi) | Min. Tensile Strength (psi) | |
| | ISO 898-1 Class 4.6 | Low or Medium Carbon Steel | 5mm-39mm | 32,000 | 35,000 | 58,000 | Grade 2 |
| | ISO 898-1 Class 8.8 | Medium Carbon Steel, Quenched and Tempered | All sizes below 16mm | 84,000 | 93,000 | 116,000 | Grade 5 |
| | | | 16mm-72mm | 87,000 | 95,000 | 120,000 | |
| | ISO 898-1 Class 10.9 | Alloy Steel, Quenched and Tempered | 5mm-100mm | 120,000 | 136,000 | 151,000 | Grade 8 |
| | ISO 898-1 Class 12.9 | Alloy Steel, Quenched and Tempered | 1.6mm-100mm | 140,000 | 159,000 | 177,000 | A9, L9, etc. |
| | ISO 3506-1 A2 | Stainless steel with Chromium (17-20%) and Nickel (8-13%) | All sizes through 20mm | 101,000 | 65,000 | 101,000 | 304 (18.8) |
| | ISO 3506-1 A4 | Stainless steel with Chromium (16-18.5%) and Nickel (10-14.4%) | All sizes through 20mm | 116,000 | 87,000 | 116,000 | 316 (16.10) |

STANDARD BOLT IDENTIFICATION

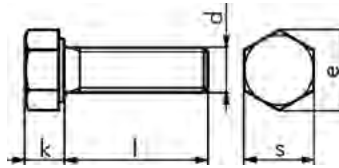


| Head Marking | Specification | Material | Diameter | Mechanical Properties | | | Metric Approximate |
|--------------|-----------------------------------|--|--------------------------|-----------------------|----------------------|------------------------|--------------------|
| | | | | Proof Load (psi) | Yield Strength (psi) | Tensile Strength (psi) | |
| | SAE J429 Grade 2 | Low or Medium Carbon Steel | 1/4"-3/4" | 55,000 | 57,000 | 74,000 | Class 4.6 |
| | ASTM A307 | | 3/4"-1-1/2" | 33,000 | 36,000 | 60,000 | |
| | | | 1/4"-4" | - | 36,000 | 60,000 | |
| | SAE J429 Grade 5 | Medium Carbon Steel, Quenched and Tempered | 1/4" -1" | 85,000 | 92,000 | 120,000 | Class 8.8 |
| | ASTM A449 | | 1"-1-1/2" | 74,000 | 81,000 | 105,000 | |
| | | | 1/4"-1" | 85,000 | 92,000 | 120,000 | |
| | | | 1"-1-1/2" | 74,000 | 81,000 | 105,000 | |
| | SAE J429 Grade 8 | Carbon Alloy Steel, Quenched and Tempered | 1/4" -1-1/2" | 120,000 | 130,000 | 150,000 | Class 10.9 |
| | ASTM A354 | | | | | | |
| | ASTM A193 B8 Class 1 304 (18.8) | Stainless steel with Chromium (18-20%) and Nickel (8-11%) | All sizes through 1-1/2" | - | 30,000 | 75,000 | A2 |
| | ASTM A193 B8M Class 1 316 (16.10) | Stainless steel with Chromium (16-18%) and Nickel (10-14%) | All sizes through 1-1/2" | - | 30,000 | 75,000 | A4 |

CROSS REFERENCE CHART

| | Bolt | Nut | Flat | Lock | Nylon Lock Nut | KEPS Nut | Fender Washer |
|---|---------------------------|--------------------|--------------------|-----------------------|-----------------------|--------------------|----------------------|
| Gr 5 STD Coarse (USS) NC (UNC) | 072 | 330 | 408 LG O.D. | 442 | 373 | 327 & 328 GR2 | 412 & 414 |
| Gr 5 STD Fine (SAE) NF (UNF) | 071 | 331 | 409 SM O.D. | 442 | 374 | 328 GR2 | 412 414 |
| Gr 8 STD Coarse USS NC UNC | 074 | 332 | 410 404 | 444 | 373 | Stover Nuts 335 | 414 420 |
| Gr 8 STD Fine UNF NF SAE | 073 | 333 | 410 404 | 444 | 374 | Stover Nuts 334 | 414 420 |
| 8.8 Metric = Gr 5 Euro/USA DIN933 (ISO 4017) FT DIN931 | 057 053 057.0...=YZ | 317 317.0...=YZ | 407 407.0...=YZ | 441 441.0...=YZ | 368 | | 411 |
| 10.9 Metric = Gr 8 Euro/USA | 067 068 ZN& YZ | 320 324 325 | 402 | USE STD GR8 446 | 370 | Stover 369 | |
| Japan/Korea 8.8 Metric | 060 062 | | 407 | 441 | | | |
| Japan/Korea 10.9 Metric | 061 | 315 | | | | | |
| Machine Screws UNC/UNF | 033 032 | 329 | 403 | 442 | 367 | 327 328 | |
| Stainless Steel Std | 076 18.8 SS 077 316 SS | 340 | 426 | 426 | 340 | | 413 |
| Stainless Steel Metric | 096 | 323 | 406 | 447 | 367 | | |

METRIC HEX BOLTS



DIN 931 (ISO 4014) Partially threaded*
DIN 933 (ISO 4017) Fully threaded

Steel • Class 8.8 • Clear Zinc Plated
 Steel • Class 8.8 • Yellow Zinc Plated
 Steel • Class 10.9 • Bare
 Stainless Steel A2

Applications:

Heavy Equipment • Construction • Transportation
 • Agriculture • Timber • Locomotive • Engine •
 Alternative Energy • Mining • Manufacturing

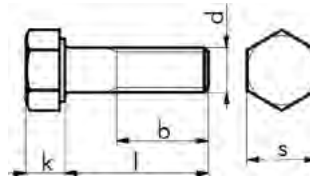
| Thread Dia (d) | M3 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 |
|----------------|------|------|------|-------|------|-------|------|------|-------|-------|-------|-------|
| k in mm | 2 | 2.8 | 3.5 | 4 | 5 | 5.3 | 6.4 | 7.5 | 8.8 | 10 | 11.5 | 12.5 |
| e in mm | 6.01 | 7.66 | 8.79 | 11.05 | 12.7 | 14.38 | 18.9 | 21.1 | 24.49 | 26.75 | 30.14 | 33.53 |
| s in mm | 5.5 | 7 | 8 | 10 | 11 | 13 | 17 | 19 | 22 | 24 | 27 | 30 |

| Dia-Thread Pitch (d) | Length (l) mm | Steel 8.8, Clear Zinc | P. Qty. | Steel 8.8, Yellow Zinc | P. Qty. | Steel 10.9, Bare | P. Qty. | A2 Stainless | P. Qty. |
|----------------------|---------------|-----------------------|---------|------------------------|---------|------------------|-----------|--------------|---------|
| M3-0.5 | 20 | 057.3..20 | 100 | | | | | | |
| M4-0.7 | 10 | 057.4..10 | 100 | | | | | | |
| | 16 | 057.4..16 | 100 | | | | | | |
| | 20 | 057.4..20 | 100 | | | | | 096.4..20 | 50 |
| | 25 | 057.4..25 | 100 | | | | | | |
| | 30 | 057.4..30 | 100 | | | | | | |
| M5-0.8 | 40 | 057.4..40 | 100 | | | | | | |
| | 8 | 057.5..8 | 100 | | | | | | |
| | 10 | 057.5..10 | 100 | | | | | | |
| | 12 | 057.5..12 | 100 | | | | | | |
| | 16 | 057.5..16 | 100 | | | | | 096.5..16 | 100 |
| | 20 | 057.5..20 | 100 | | | | | 096.5..20 | 300 |
| | 25 | 057.5..25 | 100 | | | | | | |
| | 30 | 057.5..30 | 50 | | | | | | |
| | 35 | 057.5..35 | 50 | | | | | | |
| M6-1.0 | 40 | 057.5..40 | 50 | | | | | | |
| | 50 | 057.5..50 | 50 | | | | | | |
| | 60 | 057.5..60 | 50 | | | | | | |
| | 10 | 057.6..10 | 100 | | | | | 096.6..10 | 100 |
| | 12 | 057.6..12 | 100 | 057.06.12 | 100 | | | 096.6..12 | 50 |
| | 16 | 057.6..16 | 100 | 057.06.16 | 50 | 056.6..16 | 100 | 096.6..16 | 50 |
| | 18 | 057.6..18 | 100 | | | | | | |
| | 20 | 057.6..20 | 100 | | | 056.6..20 | 100 | 096.6..20 | 50 |
| | 22 | 057.6..22 | 100 | | | | | | |
| | 25 | 057.6..25 | 50 | 057.06.25 | 50 | 056.6..25 | 50 | 096.6..25 | 50 |
| | 30 | 057.6..30 | 50 | 057.06.30 | 50 | 056.6..30 | 50 | 096.6..30 | 50 |
| | 35 | 057.6..35 | 50 | | | 056.6..35 | 50 | 096.6..35 | 50 |
| | 40 | 057.6..40 | 50 | 057.06.40 | 50 | 056.6..40 | 50 | 096.6..40 | 50 |
| M8-1.25 | 45 | 057.6..45 | 50 | | | | | | |
| | 50 | 057.6..50 | 50 | | | 056.6..50 | 50 | 096.6..50 | 50 |
| | 60 | 057.6..60 | 25 | | | | | | |
| | 70 | 057.6..70 | 25 | | | | | | |
| | 80 | 057.6..80 | 25 | | | | | | |
| | 10 | 057.8..10 | 50 | | | | | | |
| | 12 | 057.8..12 | 50 | | | | | | |
| | 16 | 057.8..16 | 50 | 057.08.16 | 25 | 056.8..16 | 25 | 096.8..16 | 50 |
| | 18 | 057.8..18 | 50 | | | | | | |
| | 20 | 057.8..20 | 50 | 057.08.20 | 25 | 056.8..20 | 25 | 096.8..20 | 50 |
| | 22 | 057.8..22 | 50 | | | | | | |
| | 25 | 057.8..25 | 50 | 057.08.25 | 25 | 056.8..25 | 25 | 096.8..25 | 50 |
| | 30 | 057.8..30 | 50 | 057.08.30 | 25 | 056.8..30 | 25 | 096.8..30 | 50 |
| | 35 | 057.8..35 | 50 | 057.08.35 | 25 | 056.8..35 | 25 | 096.8..35 | 50 |
| | 40 | 057.8..40 | 50 | 057.08.40 | 25 | 056.8..40 | 25 | 096.8..40 | 50 |
| | 45 | 057.8..45 | 25 | | | 056.8..45 | 25 | | |
| | 50 | 057.8..50 | 25 | | | 056.8..50 | 25 | 096.8..50 | 50 |
| 55 | 057.8..55 | 25 | | | | | | | |
| 60 | 057.8..60 | 25 | | | | | 096.8..60 | 50 | |
| 65 | 057.8..65 | 25 | | | | | | | |
| 70 | 057.8..70 | 25 | | | | | | | |
| 75 | 057.8..75 | 25 | | | | | | | |
| 80 | 057.8..80 | 25 | | | | | 096.8..80 | 50 | |
| 90 | 057.8..90 | 25 | | | | | | | |
| 100 | 057.8..100 | 25 | | | | | | | |

METRIC HEX BOLTS CONT.

| Dia-Thread Pitch (d) | Length (l) mm | Steel 8.8, Clear Zinc | P. Qty. | Steel 8.8, Yellow Zinc | P. Qty. | Steel 10.9, Bare | P. Qty. | A2 Stainless | P. Qty. |
|----------------------|---------------|-----------------------|---------|------------------------|------------|------------------|---------|--------------|---------|
| M10-1.5 | 16 | 057.10.16 | 25 | | | | | 096.10.16 | 50 |
| | 20 | 057.10.20 | 25 | | | 056.10.20 | 20 | 096.10.20 | 50 |
| | 25 | 057.10.25 | 25 | | | 056.10.25 | 20 | 096.10.25 | 50 |
| | 30 | 057.10.30 | 25 | 057.010.30 | 25 | 056.10.30 | 20 | 096.10.30 | 25 |
| | 35 | 057.10.35 | 25 | | | 056.10.35 | 20 | 096.10.35 | 25 |
| | 40 | 057.10.40 | 25 | 057.010.40 | 25 | 056.10.40 | 20 | 096.10.40 | 25 |
| | 45 | 057.10.45 | 25 | | | 056.10.45 | 20 | | |
| | 50 | 057.10.50 | 25 | | | 056.10.50 | 20 | 096.10.50 | 50 |
| | 60 | 057.10.60 | 25 | | | 056.10.60 | 10 | | |
| | 65 | 057.10.65 | 25 | | | | | | |
| | 70 | 057.10.70 | 20 | | | 056.10.70 | 10 | | |
| | 80 | 057.10.80 | 20 | | | 056.10.80 | 10 | | |
| | 90 | 057.10.90 | 20 | | | | | | |
| 110 | 057.10.110 | 10 | | | | | | | |
| 120 | 057.10.120 | 10 | | | | | | | |
| M12-1.75 | 20 | 057.12.20 | 25 | | | 056.12.20 | 10 | | |
| | 25 | 057.12.25 | 25 | | | 056.12.25 | 10 | 096.12.25 | 25 |
| | 30 | 057.12.30 | 25 | | | 056.12.30 | 10 | 096.12.30 | 25 |
| | 35 | 057.12.35 | 25 | | | 056.12.35 | 10 | 096.12.35 | 25 |
| | 40 | 057.12.40 | 25 | | | 056.12.40 | 10 | 096.12.40 | 50 |
| | 45 | | | | | 056.12.45 | 10 | 096.12.45 | 25 |
| | 50 | 057.12.50 | 25 | | | 056.12.50 | 10 | 096.12.50 | 25 |
| | 55 | 057.12.55 | 25 | | | | | | |
| | 60 | 057.12.60 | 25 | | | 056.12.60 | 10 | 096.12.60 | 25 |
| | 70 | 057.12.70 | 25 | | | 056.12.70 | 10 | | |
| | 75 | 057.12.75 | 25 | | | | | | |
| | 80 | 057.12.80 | 25 | | | 056.12.80 | 10 | | |
| | 90 | 057.12.90 | 10 | | | | | | |
| 100 | 057.12.100 | 10 | | | | | | | |
| 120 | 057.12.120 | 10 | | | | | | | |
| 130 | 057.12.130 | 10 | | | | | | | |
| M14-2.0 | 20 | 057.14.20 | 20 | | | | | | |
| | 25 | 057.14.25 | 20 | | | 056.14.25 | 10 | | |
| | 30 | 057.14.30 | 20 | | | 056.14.30 | 10 | | |
| | 35 | 057.14.35 | 20 | | | 056.14.35 | 10 | | |
| | 40 | 057.14.40 | 20 | | | 056.14.40 | 10 | | |
| | 50 | 057.14.50 | 20 | | | 056.14.50 | 10 | | |
| | 60 | 057.14.60 | 20 | | | 056.14.60 | 10 | | |
| | 70 | 057.14.70 | 20 | | | 056.14.70 | 10 | | |
| | 80 | 057.14.80 | | | | 056.14.80 | 10 | | |
| | 90 | 057.14.90 | 20 | | | | | | |
| 100 | | | | | 056.14.100 | 10 | | | |
| M16-2.0 | 20 | 057.16.20 | 20 | | | | | | |
| | 25 | 057.16.25 | 20 | | | | | | |
| | 30 | 057.16.30 | 20 | | | 056.16.30 | 10 | | |
| | 35 | 057.16.35 | 20 | | | 056.16.35 | 10 | | |
| | 40 | 057.16.40 | 10 | | | 056.16.40 | 10 | | |
| | 45 | 057.16.45 | 10 | | | 056.16.45 | 10 | | |
| | 50 | 057.16.50 | 10 | | | 056.16.50 | 10 | | |
| | 55 | 057.16.55 | 10 | | | | | | |
| | 60 | 057.16.60 | 10 | | | | | | |
| | 70 | 057.16.70 | 10 | | | | | | |
| | 80 | 057.16.80 | 10 | | | 056.16.80 | 10 | | |
| | 90 | 057.16.90 | 10 | | | | | | |
| | 100 | 057.16.100 | 10 | | | | | | |
| 140 | 057.16.140 | 10 | | | | | | | |
| M18-2.5 | 30 | 057.18.30 | 10 | | | | | | |
| | 40 | 057.18.40 | 10 | | | | | | |
| | 50 | 057.18.50 | 10 | | | | | | |
| | 60 | 057.18.60 | 10 | | | | | | |
| | 70 | 057.18.70 | 10 | | | | | | |
| 80 | 057.18.80 | 10 | | | | | | | |
| M20-2.5 | 30 | 057.20.30 | 10 | | | | | | |
| | 40 | 057.20.40 | 10 | | | | | | |
| | 50 | 057.20.50 | 10 | | | 056.20.50 | 10 | | |
| | 60 | 057.20.60 | 10 | | | 056.20.60 | 5 | | |
| | 70 | 057.20.70 | 10 | | | | | | |
| 80 | 057.20.80 | 10 | | | 056.20.80 | 5 | | | |
| 100 | 057.20.100 | 10 | | | | | | | |

METRIC HEX BOLTS



Metric Coarse Thread

DIN 931 (ISO 4014) Partially threaded
DIN 933 (ISO 4017) Fully threaded*

Steel • Class 8.8 • Clear Zinc Plated
 Steel • Class 10.9 • Yellow Zinc Plated

† Please note: May come clear
 Zinc and/or full-thread

Applications:

Heavy Equipment • Construction • Transportation
 • Agriculture • Timber • Locomotive • Engine •
 Alternative Energy • Mining • Manufacturing

| Thread Dia (d) | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 |
|------------------|----|-----|-----|-----|-----|-----|------|------|-----|
| b (up to 125 mm) | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 54 |
| b (over 125 mm) | 24 | 28 | 32 | 36 | 40 | 40 | 44 | 52 | 60 |
| k in mm | 4 | 5.3 | 6.4 | 7.5 | 8.8 | 10 | 11.5 | 12.5 | 15 |
| s in mm | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 36 |

| Dia-Thread Pitch (d) | Length (l) mm | Steel 8.8, Clear Zinc | P. Qty. | Steel 10.9, Yellow Zinc | P. Qty. |
|----------------------|---------------|-----------------------|------------|-------------------------|---------|
| M6-1.0 | 10 | | | 068.6..10* | 50 |
| | 12 | | | 068.6..12* | 50 |
| | 16 | | | 068.6..16* | 50 |
| | 18 | | | 068.6..18*† | 50 |
| | 20 | | | 068.6..20* | 50 |
| | 25 | | | 068.6..25* | 50 |
| | 30 | 053.6..30 | 50 | 068.6..30* | 50 |
| | 35 | | | 068.6..35* | 50 |
| | 40 | 053.6..40 | 50 | 068.6..40 | 50 |
| | 45 | | | 068.6..45 | 50 |
| | 50 | 053.6..50 | 50 | 068.6..50 | 50 |
| | 60 | | | 068.6..60 | 50 |
| 70 | 053.6..70 | 50 | 068.6..70 | 100 | |
| 80 | 053.6..80 | 50 | | | |
| M8-1.25 | 12 | | | 068.8..12* | 50 |
| | 16 | | | 068.8..16* | 50 |
| | 20 | | | 068.8..20* | 50 |
| | 25 | | | 068.8..25* | 50 |
| | 30 | | | 068.8..30* | 50 |
| | 35 | | | 068.8..35* | 50 |
| | 40 | 053.8..40 | 25 | 068.8..40 | 25 |
| | 45 | | | 068.8..45 | 25 |
| | 50 | 053.8..50 | 25 | 068.8..50 | 25 |
| | 60 | 053.8..60 | 25 | 068.8..60 | 25 |
| | 70 | 053.8..70 | 25 | 068.8..70 | 25 |
| | 80 | | | 068.8..80 | 25 |
| 90 | 053.8..90 | 25 | | | |
| 100 | | | 068.8..100 | 25 | |
| M10-1.5 | 16 | | | 068.10.16* | 50 |
| | 20 | | | 068.10.20* | 50 |
| | 25 | | | 068.10.25* | 50 |
| | 30 | | | 068.10.30* | 50 |
| | 35 | | | 068.10.35* | 25 |
| | 40 | 053.10.40 | 25 | 068.10.40* | 25 |
| | 45 | 053.10.45 | 25 | 068.10.45* | 25 |
| | 50 | 053.10.50 | 25 | 068.10.50 | 25 |
| | 55 | 053.10.55 | 25 | 068.10.55 | 25 |
| | 60 | 053.10.60 | 25 | 068.10.60 | 25 |
| | 65 | | | 068.10.65 | 25 |
| | 70 | 053.10.70 | 10 | 068.10.70 | 25 |
| 75 | | | 068.10.75 | 25 | |
| 80 | 053.10.80 | 10 | 068.10.80 | 25 | |
| 90 | 053.10.90 | 10 | | | |
| 100 | 053.10.100 | 10 | 068.10.100 | 10 | |

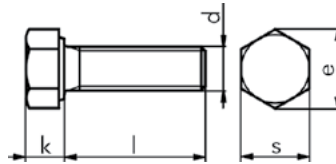
| Dia-Thread Pitch (d) | Length (l) mm | Steel 8.8, Clear Zinc | P. Qty. | Steel 10.9, Yellow Zinc | P. Qty. |
|----------------------|---------------|-----------------------|------------|-------------------------|---------|
| M12-1.75 | 20 | | | 068.12.20* | |
| | 25 | | | 068.12.25* | |
| | 30 | | | 068.12.30* | |
| | 35 | | | 068.12.35* | |
| | 40 | | | 068.12.40* | |
| | 45 | 053.12.45 | 10 | 068.12.45* | |
| | 50 | 053.12.50 | 10 | 068.12.50 | |
| | 55 | | | 068.12.55 | |
| | 60 | 053.12.60 | 10 | 068.12.60 | |
| | 65 | 053.12.65 | 10 | 068.12.65 | |
| | 70 | 053.12.70 | 10 | 068.12.70 | |
| | 75 | 053.12.75 | 10 | 068.12.75 | |
| 80 | 053.12.80 | 10 | 068.12.80 | | |
| 90 | | | 068.12.90† | | |
| 100 | | | 068.12.100 | | |
| 110 | | | 068.12.110 | | |
| 120 | | | 068.12.120 | | |
| M14-2.0 | 25 | | | 068.14.25* | |
| | 30 | | | 068.14.30* | |
| | 35 | | | 068.14.35* | |
| | 40 | | | 068.14.40* | |
| | 45 | | | 068.14.45* | |
| | 50 | 053.14.50 | 10 | 068.14.50 | |
| | 55 | 053.14.55 | 10 | 068.14.55 | |
| | 60 | 053.14.60 | 10 | 068.14.60 | |
| | 65 | | | 068.14.65 | |
| | 70 | | | 068.14.70 | |
| | 75 | | | 068.14.75 | |
| | 80 | 053.14.80 | 10 | 068.14.80 | |
| 90 | 053.14.90 | 10 | 068.14.90† | | |
| 100 | | | 068.14.100 | | |
| 110 | | | 068.14.110 | | |
| 120 | | | 068.14.120 | | |
| M16-2.0 | 30 | | | 068.16.30* | |
| | 35 | | | 068.16.35* | |
| | 40 | | | 068.16.40* | |
| | 45 | | | 068.16.45* | |
| | 50 | 053.16.50 | 10 | 068.16.50 | |
| | 55 | | | 068.16.55 | |
| | 60 | 053.16.60 | 10 | 068.16.60 | |
| | 65 | | | 068.16.65 | |
| | 70 | | | 068.16.70 | |
| | 75 | | | 068.16.75 | |
| | 80 | 053.16.80 | 10 | 068.16.80 | |
| | 90 | | | 068.16.90 | |
| 100 | | | 068.16.100 | | |
| 110 | | | 068.16.110 | | |
| 120 | | | 068.16.120 | | |
| 130 | | | 068.16.130 | | |
| 140 | | | 068.16.140 | | |
| 160 | | | 068.16.160 | | |

METRIC HEX BOLTS CONT.

| Dia-Thread Pitch (d) | Length (l) mm | Steel 8.8, Clear Zinc | P. Qty. | Steel 10.9, Yellow Zinc | P. Qty. |
|----------------------|---------------|-----------------------|---------|-------------------------|---------|
| M18-2.5 | 30 | | | 068.18.30* | 10 |
| | 35 | | | 068.18.35* | |
| | 40 | | | 068.18.40* | |
| | 45 | | | 068.18.45* | |
| | 50 | | | 068.18.50* | |
| | 55 | | | 068.18.55 | |
| | 60 | | | 068.18.60 | |
| | 65 | | | 068.18.65 | |
| | 70 | | | 068.18.70 | |
| | 75 | | | 068.18.75 † | |
| | 80 | | | 068.18.80 | |
| M18-2.5 | 90 | | | 068.18.90 | 10 |
| | 100 | | | 068.18.100 | |
| | 130 | | | 068.18.130 | |
| | 140 | | | 068.18.140 | |
| | 160 | | | 068.18.160 | |

| Dia-Thread Pitch (d) | Length (l) mm | Steel 8.8, Clear Zinc | P. Qty. | Steel 10.9, Yellow Zinc | P. Qty. | | |
|----------------------|---------------|-----------------------|---------|-------------------------|---------|-------------------|---|
| M20-2.5 | 30 | | | 068.20.30* | 5 | | |
| | 35 | | | 068.20.35* | | | |
| | 40 | | | 068.20.40* | | | |
| | 45 | | | 068.20.45* | | | |
| | 50 | | | 068.20.50* | | | |
| | 55 | | | 068.20.55* | | | |
| | 60 | | | 068.20.60 | | | |
| | 65 | | | 068.20.65 | | | |
| | 70 | | | 068.20.70 | | | |
| | 75 | | | 068.20.75 † | | | |
| | 80 | | | 068.20.80 | | | |
| | 90 | | | 068.20.90 | | | |
| | 100 | | | 068.20.100 | | | |
| | 110 | | | 068.20.110 | | | |
| | 120 | | | 068.20.120 | | | |
| | M24-3.0 | 130 | | | | 068.20.130 | 5 |
| | | 140 | | | | 068.20.140 | |
| 50 | | | | 068.24.50* | | | |
| 60 | | | | 068.24.60* | | | |
| 70 | | | | 068.24.70 | | | |
| 80 | | | | 068.24.80 | | | |
| 90 | | | | 068.24.90 | | | |
| 100 | | | | 068.24.100 | | | |
| 110 | | | | 068.24.110 | | | |
| 120 | | | | 068.24.120 | | | |
| | 130 | | | 068.24.130 | | | |
| | 140 | | | 068.24.140 | | | |
| | 150 | | | 068.24.150 | | | |
| | 180 | | | 068.24.180 | | | |

METRIC HEX BOLTS



Metric Fine Thread DIN 961 (ISO 8676) Fully threaded

Steel • Class 10.9 • Yellow Zinc Plated

Benefits of fine thread:

Greater self-locking • Greater tightening torque • Greater loadability

Applications:

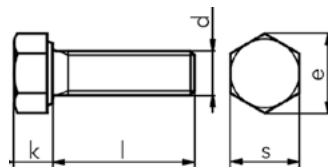
Heavy Equipment • Construction • Transportation
• Agriculture • Timber • Locomotive • Engine •
Alternative Energy • Mining • Manufacturing

| Thread Dia (d) | M8 | M10 | M12 | M14 | M16 | M18 |
|----------------|-----|-----|-----|-----|-----|------|
| k in mm | 5.3 | 6.4 | 7.5 | 8.8 | 10 | 11.5 |
| e in mm | 22 | 26 | 30 | 34 | 38 | 42 |
| s in mm | 13 | 17 | 19 | 22 | 24 | 27 |

| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|------------------|------------------|---------|
| M8-1.0 | 20 | 067.8..20 | 25 |
| | 25 | 067.8..25 | |
| | 35 | 067.8..35 | |
| M10-1.0 | 20 | 067.10.20 | |
| | 25 | 067.10.25 | |
| | 30 | 067.10.30 | |
| | 35 | 067.10.35 | |
| | 40 | 067.10.40 | |
| M12-1.5 | 20 | 067.12.20 | |
| | 25 | 067.12.25 | |
| | 30 | 067.12.30 | |
| | 35 | 067.12.35 | |
| | 40 | 067.12.40 | |
| | 45 | 067.12.45 | |
| | 50 | 067.12.50 | |
| | 60 | 067.12.60 | |
| 80 | 067.12.80 | | |

| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|---------------|------------------|---------|
| M14-1.5 | 25 | 067.14.25 | 10 |
| | 30 | 067.14.30 | |
| | 35 | 067.14.35 | |
| | 40 | 067.14.40 | |
| | 45 | 067.14.45 | |
| | 50 | 067.14.50 | |
| M16-1.5 | 65 | 067.14.65 | |
| | 30 | 067.16.30 | |
| | 35 | 067.16.35 | |
| | 40 | 067.16.40 | |
| | 45 | 067.16.45 | |
| | 50 | 067.16.50 | |
| | 55 | 067.16.55 | |
| | 60 | 067.16.60 | |
| M18-1.5 | 80 | 067.16.80 | |
| | 35 | 067.18.35 | |
| | 40 | 067.18.40 | |
| | 50 | 067.18.50 | |

METRIC REDUCED HEAD HEX BOLTS (J.I.S.)



J.I.S. B1180 Fully threaded

Steel • Class 8.8 • Clear Zinc Plated

Applications:

Asian Imports • Automotive • Motorcycles •
Manufacturing Equipment • Maintenance Equipment

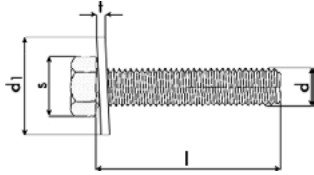


| Thread Dia (d) | M8 | M10 | M12 |
|----------------|----|-----|-----|
| k in mm | 12 | 14 | 17 |
| e in mm | 6 | 7 | 8 |
| s in mm | 12 | 14 | 17 |

| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|---------------|------------------|---------|
| M8-1.25 | 12 | 060.8..12 | 25 |
| | 16 | 060.8..16 | |
| | 20 | 060.8..20 | |
| | 25 | 060.8..25 | |
| | 30 | 060.8..30 | |
| | 35 | 060.8..35 | |
| | 40 | 060.8..40 | |

| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|---------------|------------------|---------|
| M10-1.25 | 20 | 060.10.20 | 25 |
| | 25 | 060.10.25 | |
| | 35 | 060.10.35 | |
| | 40 | 060.10.40 | |
| | 45 | 060.10.45 | |
| | 50 | 060.10.50 | |
| | 60 | 060.10.60 | |
| M12-1.25 | 20 | 060.12.20 | |
| | 25 | 060.12.25 | |
| | 30 | 060.12.30 | |
| | 40 | 060.12.40 | |
| | 50 | 060.12.50 | |

METRIC INDENTED HEX HEAD SEMS BOLTS



| Dia-Thread Pitch (d) | Head height (mm) | s (mm) | d1 (mm) | t (mm) |
|----------------------|------------------|--------|---------|--------|
| M5 | 3.5 | 8 | 10 | 1 |
| M6 | 4 | 10 | 12 | 1.5 |
| M8 | 5.5 | 12 | 16 | 1.5 |
| M10 | 7 | 14 | 20 | 2 |
| M12 | 8 | 17 | 24 | 2.5 |

| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|---------------|-------------------|---------|
| M5-0.8 | 16 | 062.5..16 | 50 |
| | 20 | 062.5..20 | |
| | 25 | 062.5..25 | |
| M6-1.0 | 16 | 062.6..16 | 50 |
| | 20 | 062.6..20 | |
| | 25 | 062.6..25 | |
| | 35 | 062.6..35 | |
| | 40 | 062.6..40 | |
| | 50 | 062.6..50 | |
| M8-1.25 | 12 | 062.8..12 | 25 |
| | 16 | 062.8..16 | |
| | 20 | 062.8..20 | |
| | 25 | 062.8..25 | |
| | 30 | 062.8..30 | |
| | 35 | 062.8..35 | |
| | 40 | 062.8..40 | |
| | 45 | 062.8..45 | |
| | 50 | 062.8..50 | |
| | 60 | 062.8..60 | |
| M10-1.25 | 20 | 062.10..20 | 25 |
| | 25 | 062.10..25 | |
| | 35 | 062.10..35 | |
| | 45 | 062.10..45 | |
| | 50 | 062.10..50 | |
| M12-1.25 | 60 | 062.10..60 | 20 |
| | 60 | 062.10..60 | |
| | 60 | 062.10..60 | |
| | 60 | 062.10..60 | |
| | 60 | 062.10..60 | |

Modified J.I.S. B1180 Fully threaded

Steel • Class 8.8 • Yellow Zinc Plated

Applications:

Asian Imports • Automotive • Motorcycles •
Manufacturing Equipment • Maintenance Equipment

Features:

SEMS Captive Free Spinning Washer



JIS Sems Bolt Assortment

Art. No. 965.062

Contents: 215 pieces

Size range: M5, M6, M8, M10, M12

Includes matching Flange Hex Nuts

* Please note a size tolerance of +/- 0.25 mm applies to all dimensions.

ASSORTMENTS



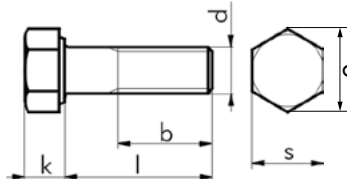
Art. No. 964.0570

Metric Hexagon Head Bolt Assortment

Grade 8.8, Clear Zinc
Dichromate, DIN 933

Contents (685 Pieces): 12 assorted sizes, size range M6-M10

STANDARD HEX BOLTS



Full/Partial Thread

- Steel • GR 5 • Clear Zinc Plated
- Steel • GR 8 • Yellow Zinc Plated
- Stainless W 18.8
- Stainless Steel 316
- *Bare

Applications:

- Heavy Equipment • Construction • Transportation
- Agriculture • Timber • Locomotive • Engine •
- Alternative Energy • Mining • Manufacturing

| Thread Dia (d) | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 | 1-1/4 | 1-1/2 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---------|-------|-------|
| Width across flats (s) | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 13/16 | 15/16 | 1-1/8 | 1-5/16 | 1-1/2 | 1-11/16 | 1-7/8 | 2-1/4 |
| Max. width across corners (e) | 0.505 | 0.577 | 0.650 | 0.722 | 0.866 | 0.938 | 1.083 | 1.299 | 1.516 | 1.732 | 1.949 | 2.165 | 2.598 |
| Height of head (k) | 5/32 | 13/64 | 15/64 | 9/32 | 5/16 | 23/64 | 25/64 | 15/32 | 35/64 | 39/64 | 11/16 | 27/32 | 1 |
| Thread length (b) ≤ 6" | 0.750 | 0.875 | 1.000 | 1.125 | 1.250 | 1.375 | 1.500 | 1.750 | 2.000 | 2.250 | 2.500 | 2.750 | 3.250 |
| Thread length (b) > 6" | 1.000 | 1.125 | 1.250 | 1.375 | 1.500 | 1.625 | 1.750 | 2.000 | 2.250 | 2.500 | 2.750 | 3.000 | 3.500 |
| No. of threads/inch UNC | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 7 | 9 |
| No. of threads/inch UNF | 28 | 24 | 24 | 20 | 20 | 18 | 18 | 16 | 14 | 12 | 12 | 12 | 12 |

| Dia (d) in inches | length (l) in inches | Steel UNF Grade 5, Clear Zinc | P. | Steel UNC Grade 5, Clear Zinc | P. | Steel UNF Grade 8, Yellow Zinc | P. | Steel UNC Grade 8, Yellow Zinc | P. | Steel UNC, 18-8 SS | P. | Steel UNC, 316 SS | P. |
|-------------------|----------------------|-------------------------------|-------------|-------------------------------|-----|--------------------------------|-------------|--------------------------------|-----|--------------------|-----|-------------------|----|
| 1/4" | 1/2 | 071.14.12 | 100 | 072.14.12 | 100 | 073.14.12 | 100 | 074.14.12 | 100 | 076.14.12 | 50 | 077.14.12 | 50 |
| | 5/8 | | | 072.14.58 | 100 | | | | | | | | |
| | 3/4 | 071.14.34 | 100 | 072.14.34 | 100 | 073.14.34 | 50 | 074.14.34 | 100 | 076.14.34 | 50 | 077.14.34 | 50 |
| | 1 | 071.14.1 | 100 | 072.14.1 | 100 | 073.14.1 | 100 | 074.14.1 | 100 | 076.14.1 | 50 | 077.14.1 | 50 |
| | 1-1/4 | | | 072.14.114 | 100 | 073.14.114 | 100 | 074.14.114 | 100 | 076.14.114 | 50 | 077.14.114 | 50 |
| | 1-1/2 | 071.14.112 | 100 | 072.14.112 | 100 | 073.14.112 | 100 | 074.14.112 | 100 | 076.14.112 | 50 | 077.14.112 | 50 |
| | 1-3/4 | | | 072.14.134 | 100 | 073.14.134 | 100 | 074.14.134 | 100 | 076.14.134 | 25 | | |
| | 2 | 071.14.2 | 50 | 072.14.2 | 100 | 073.14.2 | 100 | 074.14.2 | 50 | 076.14.2 | 25 | 077.14.2 | 25 |
| | 2-1/4 | | | 072.14.214 | 50 | | | 074.14.214 | 50 | 076.14.214 | 100 | | |
| | 2-1/2 | 071.14.212 | 25 | 072.14.212 | 50 | 073.14.212 | 100 | 074.14.212 | 50 | 076.14.212 | 25 | 077.14.212 | 25 |
| | 2-3/4 | | | 072.14.234 | 50 | | | 074.14.234 | 50 | | | | |
| | 3 | 071.14.3 | 25 | 072.14.3 | 50 | 073.14.3 | 25 | 074.14.3 | 25 | 076.14.3 | 25 | | |
| | 3-1/4 | | | | | | | 074.14.314 | 50 | | | | |
| | 3-1/2 | | | 072.14.312 | 25 | 073.14.312 | 25 | 074.14.312 | 25 | 076.14.312 | 10 | | |
| | 3-3/4 | | | | | | | 074.14.334 | 25 | | | | |
| | 4 | | | 072.14.4 | 25 | 073.14.4 | 25 | 074.14.4 | 25 | 076.14.4 | 10 | | |
| | 4-1/2 | | | 072.14.412 | 25 | | | 074.14.412 | 10 | | | | |
| | 5 | | | 072.14.5 | 25 | | | 074.14.5 | 10 | | | | |
| 5-1/2 | | | | | | | 074.14.512 | 10 | | | | | |
| 6 | | | 072.14.6 | 25 | | | 074.14.6 | 10 | | | | | |
| 5/16 | 1/2 | 071.516.12 | 50 | 072.516.12 | 100 | 073.516.12 | 50 | 074.516.12 | 100 | 076.516.12 | 25 | | |
| | 3/4 | 071.516.34 | 50 | 072.516.34 | 100 | 073.516.34 | 50 | 074.516.34 | 50 | 076.516.34 | 20 | 077.516.34 | 25 |
| | 1 | 071.516.1 | 50 | 072.516.1 | 100 | 073.516.1 | 50 | 074.516.1 | 100 | 076.516.1 | 25 | 077.516.1 | 25 |
| | 1-1/4 | 071.516.114 | 50 | 072.516.114 | 100 | 073.516.114 | 50 | 074.516.114 | 100 | 076.516.114 | 25 | 077.516.114 | 25 |
| | 1-1/2 | 071.516.112 | 50 | 072.516.112 | 50 | 073.516.112 | 50 | 074.516.112 | 100 | 076.516.112 | 25 | 077.516.112 | 25 |
| | 1-3/4 | 071.516.134 | 50 | 072.516.134 | 50 | 073.516.134 | 50 | 074.516.134 | 100 | 076.516.134 | 100 | | |
| | 2 | 071.516.2 | 50 | 072.516.2 | 50 | 073.516.2 | 25 | 074.516.2 | 100 | 076.516.2 | 25 | 077.516.2 | 25 |
| | 2-1/4 | | | 072.516.214 | 50 | 073.516.214 | 25 | 074.516.214 | 50 | 076.516.214 | 100 | | |
| | 2-1/2 | 071.516.212 | 25 | 072.516.212 | 50 | 073.516.212 | 25 | 074.516.212 | 50 | 076.516.212 | 10 | 077.516.212 | 10 |
| | 2-3/4 | | | 072.516.234 | 50 | | | 074.516.234 | 50 | 076.516.234 | 100 | | |
| | 3 | 071.516.3 | 25 | 072.516.3 | 50 | 073.516.3 | 25 | 074.516.3 | 50 | 076.516.3 | 10 | 077.516.3 | 10 |
| | 3-1/4 | | | 072.516.314 | 25 | | | 074.516.314 | 25 | | | | |
| | 3-1/2 | | | 072.516.312 | 50 | 073.516.312 | 25 | 074.516.312 | 50 | 076.516.312 | 10 | | |
| | 3-3/4 | | | | | | | 074.516.334 | 25 | | | | |
| | 4 | | | 072.516.4 | 25 | 073.516.4 | 25 | 074.516.4 | 25 | 076.516.4 | 10 | | |
| | 4-1/4 | | | | | | | 074.516.414* | 25 | | | | |
| | 4-1/2 | | | 072.516.412 | 25 | | | 074.516.412 | 25 | | | | |
| | 5 | | | 072.516.5 | 25 | | | 074.516.5 | 25 | | | | |
| 5-1/2 | | | 072.516.512 | 25 | | | 074.516.512 | 25 | | | | | |
| 6 | | | 072.516.6 | 25 | | | 074.516.6 | 25 | | | | | |

| Dia (d) in inches | length (l) in inches | Steel UNF Grade 5, Clear Zinc | P. | Steel UNC Grade 5, Clear Zinc | P. | Steel UNF Grade 8, Yellow Zinc | P. | Steel UNC Grade 8, Yellow Zinc | P. | Steel UNC, 18-8 SS | P. | Steel UNC, 316 SS | P. | |
|----------------------|-------------------------|----------------------------------|--------------------|----------------------------------|--------------------|-----------------------------------|--------------------|-----------------------------------|--------------------------|-----------------------|--------------------|----------------------|-------------------|----|
| 3/8 | 1/2 | | | 072.38.12 | 50 | 073.38.12 | 50 | 074.38.12 | 50 | 076.38.12 | 100 | | | |
| | 3/4 | 071.38.34 | 50 | 072.38.34 | 50 | 073.38.34 | 50 | 074.38.34 | 50 | 076.38.34 | 20 | | | |
| | 1 | 071.38.1 | 50 | 072.38.1 | 50 | 073.38.1 | 50 | 074.38.1 | 50 | 076.38.1 | 25 | 077.38.1 | 25 | |
| | 1-1/4 | 071.38.114 | 50 | 072.38.114 | 50 | 073.38.114 | 50 | 074.38.114 | 50 | 076.38.114 | 25 | 077.38.114 | 25 | |
| | 1-1/2 | 071.38.112 | 50 | 072.38.112 | 50 | 073.38.112 | 50 | 074.38.112 | 50 | 076.38.112 | 25 | 077.38.112 | 25 | |
| | 1-3/4 | 071.38.134 | 100 | 072.38.134 | 50 | 073.38.134 | 50 | 074.38.134 | 50 | 076.38.134 | 100 | | | |
| | 2 | 071.38.2 | 50 | 072.38.2 | 50 | 073.38.2 | 25 | 074.38.2 | 50 | 076.38.2 | 10 | 077.38.2 | 10 | |
| | 2-1/4 | | | 072.38.214 | 25 | 073.38.214 | 25 | 074.38.214 | 25 | | | | | |
| | 2-1/2 | 071.38.212 | 25 | 072.38.212 | 25 | 073.38.212 | 25 | 074.38.212 | 25 | 076.38.212 | 10 | 077.38.212 | 10 | |
| | 2-3/4 | | | 072.38.234 | 25 | | | 074.38.234 | 25 | 076.38.234 | 50 | | | |
| | 3 | 071.38.3 | 25 | 072.38.3 | 25 | 073.38.3 | 25 | 074.38.3 | 25 | 076.38.3 | 10 | 077.38.3 | 10 | |
| | 3-1/4 | | | 072.38.314 | 25 | | | 074.38.314 | 25 | | | | | |
| | 3-1/2 | 071.38.312 | 25 | 072.38.312 | 25 | 073.38.312 | 25 | 074.38.312 | 25 | 076.38.312 | 10 | | | |
| | 3-3/4 | | | 072.38.334 | 25 | | | 074.38.334 | 25 | | | | | |
| | 4 | | | 072.38.4 | 25 | 073.38.4 | 10 | 074.38.4 | 25 | 076.38.4 | 10 | | | |
| | 4-1/4 | | | | | | | | | | | | | |
| | 4-1/2 | | | 072.38.412 | 25 | 073.38.412 | 25 | 074.38.412 | 25 | | | | | |
| | 4-3/4 | | | | | | | | | | | | | |
| | 5 | | | 072.38.5 | 25 | | | 074.38.5 | 25 | | | | | |
| | 5-1/2 | | | 072.38.512 | 25 | 073.38.512 | 25 | 074.38.512 | 25 | | | | | |
| | 6 | | | | | 073.38.6 | 25 | 074.38.6 | 25 | | | | | |
| | 6-1/2 | | | | | | | 074.38.612 | 20 | | | | | |
| | 7 | | | 072.38.7 | 50 | | | | | | | | | |
| | 8 | | | 074.38.8 | 50 | | | | | | | | | |
| | 7/16 | 1/2 | | | | | | | 074.716.12 (bare) | 25 | | | | |
| | | 3/4 | | | 072.716.34 | 50 | | | 074.716.34 | 25 | | | | |
| | | 1 | 071.716.1 | | 072.716.1 | 50 | 073.716.1 | 25 | 074.716.1 | 50 | 076.716.1 | 100 | | |
| | | 1-1/4 | 071.716.114 | 25 | 072.716.114 | 25 | 073.716.114 | 25 | 074.716.114 | 50 | 076.716.114 | 50 | | |
| 1-1/2 | | 071.716.112 | 25 | 072.716.112 | 25 | 073.716.112 | 25 | 074.716.112 | 25 | 076.716.112 | 50 | 077.716.112 | 10 | |
| 1-3/4 | | | | 072.716.134 | 25 | 073.716.134 | 25 | 074.716.134 | 25 | | | | | |
| 2 | | 071.716.2 | 25 | 072.716.2 | 25 | 073.716.2 | 25 | 074.716.2 | 25 | 076.716.2 | 10 | 077.716.2 | 10 | |
| 2-1/4 | | | | 072.716.214 | 25 | 073.716.214 | 25 | 074.716.214 | 25 | | | | | |
| 2-1/2 | | | | 072.716.212 | 25 | 073.716.212 | 25 | 074.716.212 | 25 | 076.716.212 | 10 | | | |
| 2-3/4 | | | | 072.716.234 | 10 | | | 074.716.234 | 25 | | | | | |
| 3 | | 071.716.3 | 25 | 072.716.3 | 25 | 073.716.3 | 25 | 074.716.3 | 25 | 076.716.3 | 10 | 077.716.3 | 10 | |
| 3-1/4 | | | | | | | | 074.716.314 | 25 | | | | | |
| 3-1/2 | | | | 072.716.312 | 25 | 073.716.312 | 25 | 074.716.312 | 25 | | | | | |
| 3-3/4 | | | | | | | | 074.716.334 | 25 | | | | | |
| 4 | | | | 072.716.4 | 20 | 073.716.4 | 25 | 074.716.4 | 25 | 076.716.4 | 10 | | | |
| 4-1/2 | | | | 072.716.412 | 20 | 073.716.412 | 10 | 074.716.412 | 10 | | | | | |
| 5 | | | | 072.716.5 | 20 | 073.716.5 | 10 | 074.716.5 | 10 | | | | | |
| 5-1/2 | | | | 072.716.512 | 25 | | | 074.716.512 | 10 | | | | | |
| 6 | | | | 072.716.6 | 10 | | | 074.716.6 | 10 | | | | | |
| 7 | | | | | | | | 074.716.7 | 10 | | | | | |
| 1/2 | | 3/4 | | | 072.12.34 | 50 | | | 074.12.34 | 25 | 076.12.34 | 50 | | |
| | | 1 | 071.12.1 | 25 | 072.12.1 | 25 | 073.12.1 | 25 | 074.12.1 | 25 | 076.12.1 | 10 | 077.12.1 | 10 |
| | | 1-1/4 | 071.12.114 | 25 | 072.12.114 | 25 | 073.12.114 | 25 | 074.12.114 | 25 | 076.12.114 | 50 | 077.12.114 | 50 |
| | | 1-1/2 | 071.12.112 | 25 | 072.12.112 | 25 | 073.12.112 | 25 | 074.12.112 | 25 | 076.12.112 | 10 | 077.12.112 | 10 |
| | | 1-3/4 | | | 072.12.134 | 25 | 073.12.134 | 25 | 074.12.134 | 25 | 076.12.134 | 50 | 077.12.134 | 50 |
| | | 2 | 071.12.2 | 25 | 072.12.2 | 25 | 073.12.2 | 25 | 074.12.2 | 25 | 076.12.2 | 10 | 077.12.2 | 10 |
| | | 2-1/4 | | | 072.12.214 | 25 | 073.12.214 | 25 | 074.12.214 | 25 | | | | |
| | | 2-1/2 | 071.12.212 | 25 | 072.12.212 | 25 | 073.12.212 | 25 | 074.12.212 | 25 | 076.12.212 | 10 | 077.12.212 | 10 |
| | 2-3/4 | | | 072.12.234 | 25 | 073.12.234 | 25 | 074.12.234 | 25 | 076.12.234 | 25 | | | |
| | 3 | 071.12.3 | 25 | 072.12.3 | 25 | 073.12.3 | 25 | 074.12.3 | 25 | 076.12.3 | 10 | 077.12.3 | 10 | |
| | 3-1/4 | | | 072.12.314 | 25 | | | 074.12.314 | 10 | | | | | |
| | 3-1/2 | | | 072.12.312 | 25 | 073.12.312 | 25 | 074.12.312 | 10 | 076.12.312 | 10 | | | |
| | 3-3/4 | | | 072.12.334 | 25 | | | 074.12.334 | 10 | | | | | |
| | 4 | | | 072.12.4 | 25 | 073.12.4 | 10 | 074.12.4 | 10 | 076.12.4 | 10 | | | |
| | 4-1/4 | | | | | | | 074.12.414 | 10 | | | | | |
| | 4-1/2 | | | 072.12.412 | 25 | 073.12.412 | 10 | 074.12.412 | 10 | | | | | |
| | 4-3/4 | | | | | | | 074.12.434 | 10 | | | | | |
| | 5 | | | 072.12.5 | 10 | 073.12.5 | 10 | 074.12.5 | 10 | 076.12.5 | 10 | | | |
| | 5-1/2 | | | 072.12.512 | 10 | 073.12.512 | 10 | 074.12.512 | 10 | | | | | |
| | 6 | | | 072.12.6 | 10 | 073.12.6 | 10 | 074.12.6 | 10 | | | | | |
| | 6-1/2 | | | 072.12.612 | 25 | | | 074.12.612 | 10 | | | | | |
| | 7 | | | 072.12.7 | 25 | 073.12.7 | 5 | 074.12.7 | 10 | | | | | |
| | 8 | | | | | | | 074.12.8 | 5 | | | | | |

| Dia (d) in inches | length (l) in inches | Steel UNF Grade 5, Clear Zinc | P. | Steel UNC Grade 5, Clear Zinc | P. | Steel UNF Grade 8, Yellow Zinc | P. | Steel UNC Grade 8, Yellow Zinc | P. | Steel UNC, 18-8 SS | P. | Steel UNC, 316 SS | P. |
|----------------------|-------------------------|----------------------------------|-----------------|----------------------------------|---------------------|-----------------------------------|--------------------|-----------------------------------|--------------------|-----------------------|-----------------|----------------------|----|
| 9/16 | 1 | | | 072.916.1 | 20 | 073.916.1 | 10 | 074.916.1 | 10 | | | | |
| | 1-1/4 | | | 072.916.114 | 20 | 073.916.114 | 25 | 074.916.114 | 10 | | | | |
| | 1-1/2 | | | 072.916.112 | 20 | 073.916.112 | 10 | 074.916.112 | 10 | | | | |
| | 1-3/4 | | | 072.916.134 | 20 | 073.916.134 | 10 | 074.916.134 | 10 | | | | |
| | 2 | | | 072.916.2 | 20 | 073.916.2 | 10 | 074.916.2 | 10 | | | | |
| | 2-1/4 | | | 072.916.214 | 10 | | | 074.916.214 | 10 | | | | |
| | 2-1/2 | | | 072.916.212 | 10 | 073.916.212 | 10 | 074.916.212 | 10 | | | | |
| | 2-3/4 | | | 072.916.234* | 10 | | | 074.916.234 | 10 | | | | |
| | 3 | | | 072.916.3 | 10 | 073.916.3 | 10 | 074.916.3 | 10 | | | | |
| | 3-1/4 | | | | | | | 074.916.314 | 10 | | | | |
| | 3-1/2 | | | 072.916.312 | 10 | 073.916.312 | 10 | 074.916.312 | 10 | | | | |
| | 3-3/4 | | | | | | | | | | | | |
| | 4 | | | | 072.916.4 | 10 | 073.916.4 | 10 | 074.916.4 | 10 | | | |
| | 4-1/2 | | | | 072.916.412* | 10 | 073.916.412 | 10 | 074.916.412 | 5 | | | |
| | 5 | | | | 072.916.5 | 10 | 073.916.5 | 10 | 074.916.5 | 5 | | | |
| | 5-1/2 | | | | 072.916.512 | 10 | | | 074.916.512 | 5 | | | |
| | 6 | | | | 072.916.6 | 10 | 073.916.6 | 10 | 074.916.6 | 10 | | | |
| | 5/8 | 1 | | | 072.58.1 | 25 | 073.58.1 | 25 | 074.58.1 | 25 | 076.58.1 | 25 | |
| 1-1/4 | | | | 072.58.114 | 25 | 073.58.114 | 25 | 074.58.114 | 25 | | | | |
| 1-1/2 | | 071.58.112 | 25 | 072.58.112 | 25 | 073.58.112 | 25 | 074.58.112 | 25 | 076.58.112 | 10 | 077.58.112 | 25 |
| 1-3/4 | | | | 072.58.134 | 25 | 073.58.134 | 25 | 074.58.134 | 25 | 076.58.134 | 10 | 077.58.2 | 25 |
| 2 | | | | 072.58.2 | 25 | 073.58.2 | 25 | 074.58.2 | 25 | 076.58.2 | 10 | | |
| 2-1/4 | | | | 072.58.214 | 25 | 073.58.214 | 25 | 074.58.214 | 25 | 076.58.214 | 10 | | |
| 2-1/2 | | | | 072.58.212 | 25 | 073.58.212 | 25 | 074.58.212 | 25 | 076.58.212 | 10 | 077.58.212 | 10 |
| 2-3/4 | | | | 072.58.234 | 25 | 073.58.234 | 25 | 074.58.234 | 25 | | | | |
| 3 | | 071.58.3 | 10 | 072.58.3 | 25 | 073.58.3 | 10 | 074.58.3 | 10 | 076.58.3 | 10 | 077.58.3 | 10 |
| 3-1/4 | | | | 072.58.314 | 25 | | | 074.58.314 | 10 | | | 077.58.314 | 25 |
| 3-1/2 | | | | 072.58.312 | 25 | 073.58.312 | 10 | 074.58.312 | 10 | 076.58.312 | 10 | 077.58.312 | 25 |
| 3-3/4 | | | | 072.58.334 | 10 | | | 074.58.334 | 10 | | | | |
| 4 | | | | 072.58.4 | 10 | 073.58.4 | 10 | 074.58.4 | 10 | 076.58.4 | 10 | 077.58.4 | 25 |
| 4-1/4 | | | | | | | | 074.58.414 | 10 | | | | |
| 4-1/2 | | | | 072.58.412 | 10 | 073.58.412 | 10 | 074.58.412 | 10 | | | | |
| 4-3/4 | | | | | | | | | | | | | |
| 5 | | | | | 072.58.5 | 10 | 073.58.5 | 10 | 074.58.5 | 10 | | | |
| 5-1/2 | | | | | 072.58.512 | 10 | 073.58.512 | 10 | 074.58.512 | 5 | | | |
| 6 | | | | | 072.58.6 | 10 | 073.58.6 | 10 | 074.58.6 | 5 | | | |
| 6-1/2 | | | | | 072.58.612 | 10 | 073.58.612 | 5 | 074.58.612 | 5 | | | |
| 7 | | | | 072.58.7 | 25 | 073.58.7 | 5 | 074.58.7 | 5 | | | | |
| 7-1/2 | | | | | | | | 074.58.712 | 5 | | | | |
| 8 | | | | 072.58.8 | 5 | | | 074.58.8 | 5 | | | | |
| 8-1/2 | | | | | | | | 074.58.812 | 5 | | | | |
| 9 | | | | | | | | 074.58.9 | 5 | | | | |
| 10 | | | | | | | | 074.58.10 | 5 | | | | |
| 3/4 | 1 | | | 072.34.1 | 25 | 073.34.1* | 25 | 074.34.1 | 25 | | | | |
| | 1-1/4 | | | 072.34.114 | 25 | | | 074.34.114 | 25 | | | | |
| | 1-1/2 | | | 072.34.112 | 25 | 073.34.112 | 25 | 074.34.112 | 25 | | | | |
| | 1-3/4 | | | 072.34.134 | 15 | 073.34.134 | 20 | 074.34.134 | 10 | | | | |
| | 2 | 071.34.2 | 10 | 072.34.2 | 15 | 073.34.2 | 25 | 074.34.2 | 10 | 076.34.2 | 25 | 077.34.2 | 25 |
| | 2-1/4 | | | 072.34.214 | 15 | 073.34.214 | 10 | 074.34.214 | 10 | | | | |
| | 2-1/2 | | | 072.34.212 | 15 | 073.34.212 | 10 | 074.34.212 | 10 | | | 077.24.212 | 25 |
| | 2-3/4 | | | 072.34.234 | 15 | | | 074.34.234 | 10 | | | | |
| | 3 | | | 072.34.3 | 10 | 073.34.3 | 10 | 074.34.3 | 10 | 076.34.3 | 25 | 077.34.3 | 25 |
| | 3-1/4 | | | 072.34.314 | 10 | 073.34.314 | 10 | 074.34.314 | 10 | | | | |
| | 3-1/2 | | | 072.34.312 | 10 | 073.34.312 | 10 | 074.34.312 | 10 | 076.34.312 | 25 | 077.34.312 | 25 |
| | 3-3/4 | | | | | | | 074.34.334 | 10 | | | | |
| | 4 | | | 072.34.4 | 10 | 073.34.4 | 10 | 074.34.4 | 10 | 076.34.4 | 10 | 077.34.4 | 10 |
| | 4-1/4 | | | | | | | 074.34.414 | 5 | | | | |
| | 4-1/2 | | | 072.34.412 | 10 | 073.34.412 | 10 | 074.34.412 | 5 | | | 077.34.412 | 10 |
| | 4-3/4 | | | | | | | 074.34.434 | 5 | | | | |
| | 5 | | | 072.34.5 | 5 | 073.34.5 | 10 | 074.34.5 | 10 | | | | |
| | 5-1/2 | | | 072.34.512 | 5 | 073.34.512 | 10 | 074.34.512 | 5 | | | | |
| | 6 | | | 072.34.6 | 5 | 073.34.6 | 10 | 074.34.6 | 5 | | | | |
| | 6-1/2 | | | | | | | 074.34.612 | 5 | | | | |
| 7 | | | 072.34.7 | 5 | 073.34.7 | 10 | 074.34.7 | 5 | | | | | |
| 7-1/2 | | | | | | | 074.34.712 | 5 | | | | | |
| 8 | | | 072.34.8 | 5 | | | 074.34.8 | 5 | | | | | |
| 9 | | | | | | | 074.34.9 | 5 | | | | | |

| Dia (d) in inches | length (l) in inches | Steel UNF Grade 5, Clear Zinc | P. | Steel UNC Grade 5, Clear Zinc | P. | Steel UNF Grade 8, Yellow Zinc | P. | Steel UNC Grade 8, Yellow Zinc | P. | Steel UNC, 18-8 SS | P. | Steel UNC, 316 SS | P. |
|----------------------|-------------------------|----------------------------------|-----------------|----------------------------------|-----------------|-----------------------------------|-------------------|-----------------------------------|------------------|-----------------------|----|----------------------|----|
| 7/8 | 1-1/2 | | | 072.78.112 | 15 | 073.78.112 | 5 | 074.78.112 | 10 | | | | |
| | 1-3/4 | | | | | | | 074.78.134 | 10 | | | | |
| | 2 | | | 072.78.2 | 20 | 073.78.2 | 5 | 074.78.2 | 10 | | | | |
| | 2-1/4 | | | | | | | 074.78.214 | 5 | | | | |
| | 2-1/2 | | | 072.78.212 | 20 | 073.78.212 | 5 | 074.78.212 | 5 | | | | |
| | 2-3/4 | | | | | | | 074.78.234 | 5 | | | | |
| | 3 | | | 072.78.3 | 20 | 073.78.3 | 5 | 074.78.3 | 5 | | | | |
| | 3-1/4 | | | | | | | 074.78.314 | 5 | | | | |
| | 3-1/2 | | | 072.78.312 | 20 | 073.78.312 | 5 | 074.78.312 | 5 | | | | |
| | 4 | | | 072.78.4 | 20 | 073.78.4 | 5 | 074.78.4 | 5 | | | | |
| | 4-1/2 | | | 072.78.412 | 15 | 073.78.412 | 5 | 074.78.412 | 5 | | | | |
| | 5 | | | 072.78.5 | 20 | 073.78.5 | 15 | 074.78.5 | 5 | | | | |
| | 5-1/2 | | | | | | | 073.78.512 | 5 | 074.78.512 | 5 | | |
| | 6 | | | 072.78.6 | 10 | 073.78.6 | 5 | 074.78.6 | 5 | | | | |
| | 6-1/2 | | | | | | | 073.78.612 | 5 | 074.78.612 | 5 | | |
| 7 | | | | | | | 073.78.7 | 5 | 074.78.7 | 5 | | | |
| 8 | | | | | | | 073.78.8 | 5 | 074.78.8 | 5 | | | |
| 8-1/2 | | | | | | | | 074.78.812 | 5 | | | | |
| 9 | | | | | | | | 074.78.9 | 5 | | | | |
| 10 | | | | | | | | 074.78.10 | 5 | | | | |
| 1 | 1-1/2 | | | | | | | 074.1..112 | 5 | | | | |
| | 1-3/4 | | | | | | | 074.1..134 | 5 | | | | |
| | 2 | | | 072.1..2 | 5 | 073.1..2 | 10 | 074.1..2 | 5 | | | | |
| | 2-1/2 | | | 072.1..212 | 20 | 073.1..212 | 10 | 074.1..212 | 5 | | | | |
| | 3 | | | 072.1..3 | 5 | 073.1..3 | 10 | 074.1..3 | 5 | | | | |
| | 3-1/2 | | | 072.1..312 | 5 | 073.1..312 | 10 | 074.1..312 | 5 | | | | |
| | 4 | | | 072.1..4 | 5 | 073.1..4 | 5 | 074.1..4 | 5 | | | | |
| | 4-1/2 | | | 072.1..412 | 5 | 073.1..412 | 5 | 074.1..412 | 10 | | | | |
| | 4-3/4 | | | | | | | 074.1..434 | 5 | | | | |
| | 5 | | | 072.1..5 | 5 | 073.1..5 | 5 | 074.1..5 | 5 | | | | |
| | 5-1/2 | | | | | | | 074.1..512 | 5 | | | | |
| | 6 | | | 072.1..6 | 5 | 073.1..6 | 5 | 074.1..6 | 5 | | | | |
| | 6-1/2 | | | | | | | 074.1..612 | 5 | | | | |
| 7 | | | 072.1..7 | 5 | 073.1..7 | 5 | 074.1..7 | 5 | | | | | |
| 8 | | | | | | | 073.1..8 | 5 | 074.1..8 | 5 | | | |
| 9 | | | | | | | | 074.1..9 | 5 | | | | |
| 10 | | | | | | | 073.1..10* | 5 | 074.1..10 | 5 | | | |
| 12 | | | | | | | | 074.1..12 | 5 | | | | |
| 1-1/8 | 3 | | | | | | | 074.118.3 | 5 | | | | |
| | 5 | | | | | | | 074.118.5 | 5 | | | | |
| | 6 | | | | | | | 074.118.6 | 5 | | | | |
| | 10 | | | | | | | 074.118.10 | 5 | | | | |
| 1-1/4 | 4 | | | | | | | 074.114.4* | 5 | | | | |
| | 5 | | | | | | | 074.114.5 | 5 | | | | |
| | 6 | | | | | | | 074.114.6 | 2 | | | | |
| | 7 | | | | | | | 074.114.7* | 2 | | | | |
| 1-1/2 | 8 | | | | | | | 074.114.8 | 2 | | | | |
| | 6 | | | | | | | 074.112.6 | 2 | | | | |
| 8 | | | | | | | 074.112.8* | 2 | | | | | |

ASSORTMENTS

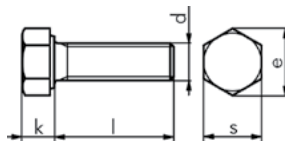


Art. No. 965.076

Hex Head Bolt, Hex Nut, Flat/ Lock Washer Assortment

18.8 Stainless Steel
Contents (775 Pieces):
 size range 1/4"-3/8"

STANDARD HEX TAP BOLTS



Fully threaded

Steel • GR 2 • Clear Zinc Plated

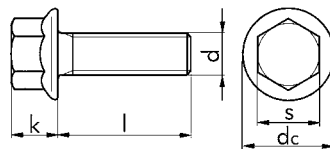
Applications:

Heavy Equipment • Construction • Transportation
 • Agriculture • Timber • Locomotive • Engine •
 Alternative Energy • Mining • Manufacturing

| | |
|--------------------------|------------|
| Thread Dia (d) | 3/8 |
| Width across flats (s) | 9/16 |
| Width across corners (e) | 0.65 |
| Height of head (k) | 15/64 |

| Dia-Thread Pitch (d) | Length (l) in inches | Art. No. | P. Qty. |
|----------------------|----------------------|-----------------|---------|
| 3/8 - 16 | 2 | 224.38.2 | 25 |
| | 3 | 224.38.3 | |
| | 4 | 224.38.4 | |

METRIC HEX HEAD FLANGE BOLTS



J.I.S. B1189

Fully threaded • Partially Threaded
 Steel • Class 10.9 • Clear Zinc Plated

Applications:

Asian Imports • Automotive • Motorcycles •
 Manufacturing Equipment • Maintenance Equipment

| Thread Dia (d) | M6 | M8 | M10 |
|----------------|-----|------|-----|
| s in mm | 10 | 12 | 14 |
| k in mm | 6.0 | 8 | 10 |
| dc in mm | 14 | 17.5 | 21 |

| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|---------------|--------------------|---------|
| M6-1.0 | 12 | 061.6..12 | 50 |
| | 16 | 061.6..16 | 50 |
| | 20 | 061.6..20 | 50 |
| | 20 | 061.6..20BK | 250 |
| | 25 | 061.6..25 * | 50 |
| | 30 | 061.6..30 * | 50 |
| | 35 | 061.6..35 * | 50 |
| | 40 | 061.6..40 * | 25 |
| M8-1.25 | 16 | 061.8..16 | 25 |
| | 20 | 061.8..20 | 25 |
| | 25 | 061.8..25 | 25 |
| | 30 | 061.8..30 * | 25 |
| | 35 | 061.8..35 * | 25 |
| | 40 | 061.8..40 * | 25 |
| M10-1.25 | 20 | 061.10.20 | 25 |
| | 25 | 061.10.25 | 25 |
| | 30 | 061.10.30 | 25 |
| | 35 | 061.10.35 * | 25 |
| | 40 | 061.10.40 * | 25 |



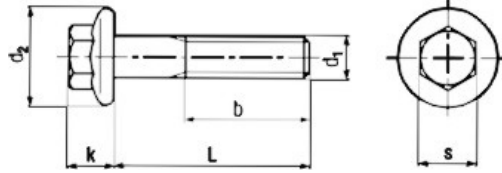
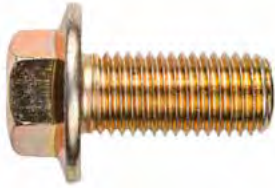
JIS Flange Bolt Assortment

Art. No. 965.061

Contents: 230 pieces
 Size range, M6, M8, M10
 Includes matching Flange Nuts

Note: Items denoted with an asterisk * are partially threaded.

METRIC HEX HEAD FLANGE BOLTS



Steel • Class 10.9 • Yellow Zinc Plated

DIN 6921 Partially threaded

Applications:
Agriculture Equipment • Farming Equipment

Features:
Flanged Head • Not Serrated • Coarse Thread

| Thread Dia (d) | M6 | M8 | M10 | M12 | M16 |
|----------------|------|-----|------|------|------|
| b min | 18 | 22 | 26 | 30 | 38 |
| d2 max | 14.2 | 18 | 22.3 | 26.6 | 35 |
| k max | 6.6 | 8.1 | 9.2 | 11.5 | 14.4 |
| s max | 10 | 13 | 15 | 16 | 21 |

| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|---------------|------------|---------|
| M6-1.0 | 12 | 070.6..12 | 25 |
| | 16 | 070.6..16 | |
| | 20 | 070.6..20 | |
| | 25 | 070.6..25 | |
| | 30 | 070.6..30 | |
| | 35 | 070.6..35 | |
| | 40 | 070.6..40 | |
| M8-1.25 | 45 | 070.6..45 | 10 |
| | 16 | 070.8..16 | |
| | 20 | 070.8..20 | |
| | 25 | 070.8..25 | |
| | 30 | 070.8..30 | |
| | 35 | 070.8..35 | |
| | 40 | 070.8..40 | |
| | 45 | 070.8..45 | |
| | 50 | 070.8..50 | |
| | 60 | 070.8..60 | |
| M10-1.5 | 70 | 070.8..70 | 25 |
| | 80 | 070.8..80 | |
| | 90 | 070.8..90 | |
| | 110 | 070.8..110 | |
| | 120 | 070.8..120 | |
| | 16 | 070.10.16 | |
| | 20 | 070.10.20 | |
| | 25 | 070.10.25 | |
| | 30 | 070.10.30 | |
| | 35 | 070.10.35 | |
| | 40 | 070.10.40 | |
| | 45 | 070.10.45 | |
| | 50 | 070.10.50 | |
| 55 | 070.10.55 | | |
| 65 | 070.10.65 | | |
| 70 | 070.10.70 | | |
| 80 | 070.10.80 | | |
| 90 | 070.10.90 | | |
| 110 | 070.10.110 | | |
| 130 | 070.10.130 | | |

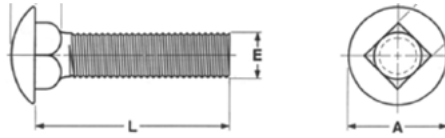
| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|---------------|------------|---------|
| M12-1.75 | 20 | 070.12.20 | 25 |
| | 25 | 070.12.25 | |
| | 30 | 070.12.30 | |
| | 35 | 070.12.35 | |
| | 40 | 070.12.40 | |
| | 45 | 070.12.45 | |
| | 50 | 070.12.50 | |
| | 60 | 070.12.60 | |
| | 70 | 070.12.70 | |
| | 80 | 070.12.80 | |
| | 90 | 070.12.90 | |
| | 100 | 070.12.100 | |
| | 120 | 070.12.120 | |
| 130 | 070.12.130 | | |
| M16-2.0 | 160 | 070.12.160 | 10 |
| | 35 | 070.16.35 | |
| | 40 | 070.16.40 | |
| | 45 | 070.16.45 | |
| | 50 | 070.16.50 | |
| | 60 | 070.16.60 | |
| | 70 | 070.16.70 | |
| | 80 | 070.16.80 | |
| 90 | 070.16.90 | | |

STAINLESS CAPPED HEAD BUMPER BOLTS



| Bolt No. | Application | Diameter (in.) | Length (in.) | Threads per inch | Art. No. |
|----------|--|----------------|--------------|------------------|----------|
| 1 | Pan Head Stainless Steel Cap zinc plated bolt. All GM cars including Cadillac - Bumper bolt Front & Rear | 3/8 | 1 | 16 | 235.12 |
| 2 | Stainless Steel Capped Pan Head GM Products (late model) | 7/16 | 1 1/4 | 14 | 235.13 |

STANDARD BUMPER BOLTS

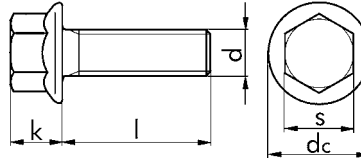


Steel • GR 2 • Clear Zinc Plated
Coarse Thread - UNC

| Diameter | 7/16 | 1/2 |
|---------------------------|-------|--------|
| Head Diameter A | 31/32 | 1-3/32 |
| No. of threads/inch - UNC | 14 | 13 |

| Dia in inches. (e) | Length in inches (l) | Steel, Clear Zinc | P. Qty. |
|--------------------|----------------------|--------------------|---------|
| 7/16 | 1-1/4 | 231.716.114 | 10 |
| | 1-1/2 | 231.716.112 | |
| 1/2 | 1-1/2 | 231.12.112 | |

STANDARD FLANGE FRAME BOLTS



Use with Prefix 319 and 321 nuts.

Steel • GR 8 • Phosphate and oil finish

Application:

Used for frame bolting.

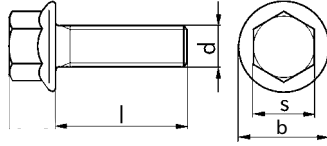
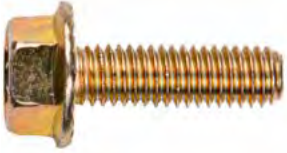
Features:

Strong and dependable fastening system • Substantially cuts assembly, maintenance and repair costs.

| Thread Dia (d) | 3/8 | 1/2 | 5/8 | 3/4 *NEW* |
|------------------------------|-------|-------|-------|-----------|
| Head Diameter (s) | 9/16 | 3/4 | 15/16 | 1" |
| Flange Diameter (dc) | 0.81 | 1.07 | 1.33 | 1.549 |
| Head Height (k) | 0.39 | 0.51 | 0.62 | 0.715 |
| Full Thread up to Length (l) | 1-1/2 | 1-7/8 | 2-1/2 | 2 1/2" |
| No. of threads/inch - UNF | 24 | 20 | 18 | 16 |
| No. of threads/inch - UNC | 16 | 13 | 11 | - |

| Thread dia. (d) in inches | Length (l) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|----------------------|-------------------|---------|-------------------|---------|
| 1/2 | 1 | - | 10 | 064.12.1 | 10 |
| | 1-1/2 | 065.12.112 | | 064.12.112 | |
| | 1-3/4 | 065.12.134 | | - | |
| | 2 | 065.12.2 | | 064.12.2 | |
| | 2-1/4 | 065.12.214 | | - | |
| | 2-1/2 | 065.12.212 | | 064.12.212 | |
| 5/8 | 3 | 065.12.3 | 10 | - | 10 |
| | 1-1/2 | 065.58.112 | | - | |
| | 1-3/4 | 065.58.134 | | - | |
| | 2 | 065.58.2 | | 064.58.2 | |
| | 2-1/4 | 065.58.214 | | - | |
| | 2-1/2 | 065.58.212 | | 064.58.212 | |
| | 3 | 065.58.3 | | - | |
| | 3-1/2 | 065.58.312 | | - | |
| | 4 | 065.58.4 | | - | |
| 4-1/2 | 065.58.412 | - | | | |
| 3/4 *NEW* | 5 | 065.58.5 | 20 | - | |
| | 1-3/4 | 065.34.134 | | - | |
| | 2 | 065.34.2 | | - | |
| | 2-1/2 | 065.34.212 | | - | |
| | 3 | 065.34.3 | | - | |
| | 3-1/2 | 065.34.312 | | | |

METRIC SELF LOCKING FLANGE BOLTS



Steel • Class 8.8 • Yellow Zinc Plated
Serrated head

Applications:

Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems • Trucking
Frames • Transportation • Wind • MRO

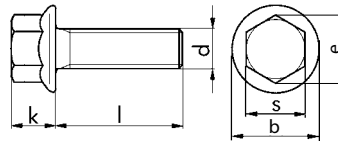
Features:

Self Locking Serrated Head

| | |
|----------------------|-----------|
| Thread dia. D | M6 |
| b in mm | 11.1 |
| s in mm | 10.0 |

| Dia-Thread Pitch (d) | Length(l) mm | Art. No. | P. Qty. |
|----------------------|--------------|------------------|---------|
| M6-1.0 | 12 | 274.6..12 | 50 |
| | 16 | 274.6..16 | |
| | 20 | 274.6..20 | |

STANDARD SELF LOCKING FLANGE BOLT



Steel • GR 5 • Clear Zinc Plated

Applications:

Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems • Trucking
Frames • Transportation • Wind • MRO

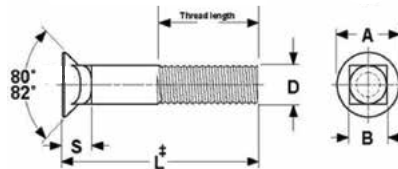
Features:

Self Locking Serrated Head

| Thread Dia (d) | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
|------------------------------|-------|-------|-------|-------|-------|
| Head Diameter (s) | 3/8 | 1/2 | 9/16 | 5/8 | 3/4 |
| Width Across Corners (e) max | 0.433 | 0.577 | 0.650 | 0.722 | 0.866 |
| Head Height (k) max. | 0.28 | 0.32 | 0.39 | 0.46 | 0.51 |
| Flange Diameter (dc) max. | 0.56 | 0.68 | 0.81 | 0.93 | 1.07 |
| No. of threads/inch - UNC | 20 | 18 | 16 | 14 | 13 |

| Thread dia. (d) in inches | Length (l) in inches | Art. No. | P. Qty. |
|---------------------------|----------------------|--------------------|---------|
| 1/4 | 1/2 | 274.14.12 | 50 |
| | 3/4 | 274.14.34 | |
| | 1 | 274.14.1 | |
| 5/16 | 1/2 | 274.516.12 | 50 |
| | 3/4 | 274.516.34 | |
| | 1 | 274.516.1 | |
| | 1-1/4 | 274.516.114 | 25 |
| | 1-1/2 | 274.516.112 | |
| | 2 | 274.516.2 | |
| 3/8 | 1 | 274.38.1 | 25 |
| | 1-1/4 | 274.38.114 | |
| | 1-1/2 | 274.38.112 | |
| | 3 | 274.38.3 | |

STANDARD PLOW BOLTS



Flat Head • Square Neck
Steel • GR 5 • Bare

Applications:

Heavy Equipment • Mining • Construction • Timber
• Locomotive • Alternative Energy • Transportation •
Agriculture • Snow Plows • Bull Dozers • Rock Quarry

Function:

Tightened or loosened by applying torque to the nut. Countersunk head with a short square neck that prevents the bolt from turning when the nut is fastened or removed.

| Thread Dia (d) | 3/8 | 7/16 | 1/2 | 5/8 |
|-----------------------------------|-------|-------|-------|-------|
| Head Diameter Min Shape (A) | 0.671 | 0.781 | 0.890 | 1.094 |
| Depth of Square and Head (S) max. | 0.312 | 0.364 | 0.417 | 0.506 |
| Width of Square max. (B) | 0.387 | 0.450 | 0.515 | 0.640 |
| No. of threads/inch - UNC | 16 | 14 | 13 | 11 |

| Thread dia. (d) in inches | Length (l) in inches | Minimum thread length | Art. No. | P. Qty. |
|---------------------------|----------------------|-----------------------|-------------------|---------|
| 3/8 | 1-1/4 | T to H* | 221.38.114 | 50 |
| | 1-1/2 | T to H* | 221.38.112 | |
| | 1-3/4 | T to H* | 221.38.134 | |
| | 2 | T to H* | 221.38.2 | 25 |
| 2-1/2 | T to H* | 221.38.212 | | |
| 1-1/2 | T to H* | 221.716.112 | 50 | |
| 1-3/4 | T to H* | 221.716.134 | | |
| 2-1/4 | 1-1/8 | 221.716.214 | | |
| 2-1/2 | 1-1/8 | 221.716.212 | | |

| Thread dia. (d) in inches | Length (l) in inches | Minimum thread length | Art. No. | P. Qty. |
|---------------------------|----------------------|-----------------------|-------------------|---------|
| 1/2 | 1-1/2 | T to H* | 221.12.112 | 25 |
| | 2 | T to H* | 221.12.2 | |
| | 2-1/2 | 1-1/4 | 221.12.212 | |
| | 3 | 1-1/4 | 221.12.3 | |
| 5/8 | 2 | T to H* | 221.58.2 | 25 |
| | 2-1/4 | T to H* | 221.58.214 | |
| | 2-1/2 | T to H* | 221.58.212 | |
| | 3 | 1-1/2 | 221.58.3 | 20 |
| | 3-1/2 | 1-1/2 | 221.58.312 | |

* T to H indicates the bolt is threaded to head or square

STANDARD BODY BOLTS – BLACK PHOSPHATE



Art. No. 278.501



Art. No. 278.502



Art. No. 278.503



Art. No. 278.504



Art. No. 278.505



Art. No. 278.506



Art. No. 235.14



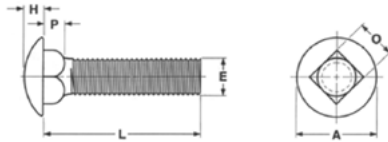
Art. No. 235.15



Art. No. 235.16

| Vehicle Appl. OEM No. | Description | Dia. (inches) | Threads per inch | Length (inches) | Hex Dia. (inches) | Washer O.D. (inches) | Art. No. | P. Qty. |
|-----------------------|--|---------------|------------------|-----------------|-------------------|----------------------|----------------|---------|
| Ford & GM | Hex Head Sems Bolt | 5/16 | 18 | 1 | 1/2 | 7/8 | 278.501 | 25 |
| GM | Hex Washer Head | 5/16 | 18 | 13/16 | 1/2 | 41/64 | 278.502 | |
| GM | Hex Washer Head | 5/16 | 18 | 3/4 | 1/2 | 21/32 | 278.503 | |
| GM (3986997) | Hex Head Sems Bolt | 3/8 | 16 | 1 | 9/16 | 1 | 278.504 | |
| GM (407217) | Hex Head Sems Hood Hinge to Sheet Metal Bolt | 3/8 | 16 | 1-1/2 | 9/16 | 1-1/8 | 278.505 | 20 |
| Ford & GM | Hex Head Sems | 5/16 | 18 | 1 | 1/2 | 7/8 | 278.506 | |
| Chrysler | Hex Head Sems with Dog Point | 1/4 | 20 | 1 | 7/16 | 5/8 | 235.14 | |
| - | Hex Head Sems with Dog Point | 1/4 | 20 | 7/8 | 7/16 | 3/4 | 235.15 | |
| Ford | Hex Washer Head with Pinch Point | 5/16 | 18 | 1-1/4 | 1/2 | 21/32 | 235.16 | 10 |

STANDARD CARRIAGE BOLTS



Steel • GR 2 • Clear Zinc Plated
 Steel • GR 5 • Clear Zinc Plated
 Stainless Steel 18.8

Applications:

Timber • Mining • Construction • Heavy
 Equipment • Locomotive • Alternative
 Energy • Transportation • Agriculture

Function:

Tightened or loosened by applying torque to the nut. Oversized head style eliminates the need for washers when securing in timber and other soft materials. The square neck prevents the bolt from turning when the nut is fastened or removed.

* Grade 2, Clear Zinc Plated

| Thread dia. (e) | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 |
|---------------------------|-------|-------|-------|-------|-------|-------|
| Head Diameter (A) max. | 0.594 | 0.719 | 0.844 | 0.969 | 1.094 | 1.344 |
| Height of Square (P) max. | 0.156 | 0.187 | 0.219 | 0.250 | 0.281 | 0.344 |
| Head Height max. (H) | 0.145 | 0.176 | 0.208 | 0.239 | 0.270 | 0.344 |
| Square Width max. (O) | 0.260 | 0.324 | 0.388 | 0.452 | 0.545 | 0.642 |
| No. of threads/inch - UNC | 20 | 18 | 16 | 14 | 13 | 11 |

| Thread dia. (d) in inches | Length (l) in inches | Grade 5, UNC, Clear Zinc | P. Qty. | UNC, 18-8 SS | P. Qty. | |
|---------------------------|----------------------|--------------------------|--------------------|--------------------|------------------|----|
| 1/4 | 3/4 | 220.14.34 | 100 | 223.14.34 | 100 | |
| | 1 | 220.14.1 | | 223.14.1 | 50 | |
| | 1-1/4 | 220.14.114 | | 223.14.114 | 100 | |
| | 1-1/2 | 220.14.112 | | 223.14.112 | 50 | |
| | 1-3/4 | 220.14.134 | | | | |
| | 2 | 220.14.2 | | 223.14.2 | 50 | |
| | 2-1/2 | 220.14.212 | | | | |
| | 3 | 220.14.3 | | | | |
| 5/16 | 3-1/2 | 220.14.312* | 25 | | | |
| | 3/4 | 220.516.34 | 100 | 223.516.34 | 50 | |
| | 1 | 220.516.1 | | 223.516.1 | 50 | |
| | 1-1/4 | 220.516.114 | | 223.516.114 | 100 | |
| | 1-1/2 | 220.516.112 | | 223.516.112 | 25 | |
| | 1-3/4 | 220.516.134 | | | | |
| | 3/8 | 2 | 220.516.2 | 50 | 223.516.2 | 25 |
| | | 2-1/2 | 220.516.212 | | | |
| | | 3 | 220.516.3 | | | |
| | | 3-1/2 | 220.516.312 | 25 | | |
| 4 | | 220.516.4* | | | | |
| 4-1/2 | | 220.516.412 | | | | |
| 5 | | 220.516.5 | | | | |
| 3/8 | | 3/4 | 220.38.34 | 50 | 223.38.1 | 25 |
| | 1 | 220.38.1 | | | | |
| | 1-1/4 | 220.38.114 | 223.38.112 | | 25 | |
| | 1-1/2 | 220.38.112 | | | | |
| | 1-3/4 | 220.38.134 | 223.38.2 | | 25 | |
| | 3/8 | 2 | 220.38.2 | 25 | | |
| | | 2-1/4 | 220.38.214 | | | |
| | | 2-1/2 | 220.38.212 | | | |
| | | 2-3/4 | 220.38.234 | | | |
| | | 3 | 220.38.3 | | 223.38.3 | 25 |
| 3-1/2 | | 220.38.312 | | | | |
| 3/8 | 4 | 220.38.4 | | | | |
| | 4-1/2 | 220.38.412 | | | | |
| | 5 | 220.38.5 | | | | |
| | 5-1/2 | 220.38.512* | | | | |

| Thread dia. (d) in inches | Length (l) in inches | Grade 5, UNC, Clear Zinc | P. Qty. | UNC, 18-8 SS | P. Qty. |
|---------------------------|----------------------|--------------------------|---------|-----------------|---------|
| 7/16 | 1-1/4 | 220.716.114 | 50 | | |
| | 1-1/2 | 220.716.112 | | | |
| | 1-3/4 | 220.716.134 | | | |
| | 2 | 220.716.2 | | | |
| | | | | 220.12.1 | |
| 1/2 | 1 | 220.12.114 | 25 | | |
| | 1-1/2 | 220.12.112 | 50 | | |
| | 1-3/4 | 220.12.134 | | | |
| | 2 | 220.12.2 | | | |
| | 2-1/2 | 220.12.212 | | | |
| | 3 | 220.12.3 | 25 | | |
| | 3-1/2 | 220.12.312 | 20 | | |
| 4 | 220.12.4 | | | | |
| 5/8 | 4-1/2 | 220.12.412 | | | |
| | 1-1/2 | 220.58.112 | 25 | | |
| | 2 | 220.58.2 | | | |
| | 2-1/4 | 220.58.214 | | | |
| | 2-1/2 | 220.58.212 | | | |
| | 3 | 220.58.3 | 20 | | |
| | 3-1/2 | 220.58.312 | | | |
| 4 | 220.58.4 | | | | |

STANDARD ELEVATOR BOLTS



Flat oversized head • Square neck
Steel • Clear Zinc Plated

Applications:

Agriculture • Timber • Mining • Construction
• Heavy Equipment • Locomotive • Conveyor
Systems • Marine • RV • Trucking

Function:

Tightened or loosened by applying torque to the nut.
Oversized head style eliminates reduces pull-through of materials being fastened. The square neck prevents the bolt from turning when the nut is fastened or removed. Most commonly used in Pontoon Boats, Trucking Beds, Grain Elevators and Timber applications.

| Thread dia. (e) | 1/4 | 5/16 | 3/8 |
|---------------------------|-------|-------|-------|
| Head Diameter (a) | 1.008 | 1.227 | 1.352 |
| No. of threads/inch - UNC | 20 | 18 | 16 |
| Depth of Square max. (p) | 0.219 | 0.250 | 0.250 |
| Width of Square max. (a) | 0.280 | 0.342 | 0.405 |

| Thread dia. (d) in inches | Length (l) in inches | P. Qty. | Art. No. | P. Qty. |
|---------------------------|----------------------|---------|-------------------|---------|
| 1/4 | 1-1/2 | | 222.14.112 | 100 |
| | 1-1/4 | | 222.14.114 | 100 |
| | 2 | 100 | 222.14.2 | |
| 5/16 | 2 | | 222.516.2 | 100 |
| | 1-1/2 | 100 | 222.38.112 | |
| 3/8 | 2 | | 222.38.2 | 100 |

SPECIALTY FASTENER - CAMTAINER®



Camtainer® Nut

Art. No. 069.89060008 - P. Qty. 100

Screw Material: 1022R Steel
Core Hardness: R/c 28-38
Tensile Strength: 4,700 psi/min



Camtainer® Bolt

Art. No. 069.88082920 - P. Qty. 100

Screw Grade: 5.1
Screw Material: 1022R Steel
Core Hardness: R/c 28-38
Tensile Strength: 120,000 psi/min
Proof Load: 85,000 psi
Salt Spray Resistance: 500 hours/min

BOTTOM RAIL BOLT



1



2

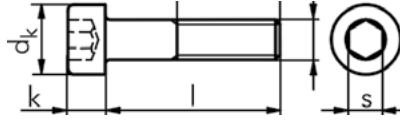
Button Head Torx Bolt

Features:

- Provides up to 1500 hrs salt spray resistance
- 120,000 PSI Tensile Strength
- Height of head: .243"
- Gr 5.1 , manufactured from 1022 Steel
- Plating is .0003 cadium plus JD3 Sealer
- Torx 45

| Number | Description | Drive Style | Art. No. |
|--------|---|-------------|-------------------|
| 1 | Bottom Rail Bolt 3/8-16x1 BTN HD TORX GR 5.1 | | 069.885895 |
| 2 | Bottom Rail Bolt 3/8x1 7/8 BTN HD TORX GR 5.1 | | 069.885900 |

METRIC SOCKET CAP SCREWS



DIN 912 (ISO 4762)

Steel • Class 8.8 • Clear Zinc Plated

Steel • Class 12.9 • Bare

Stainless Steel A2

Applications:

Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems •
Trucking Frames • Transportation • Wind • MRO

Features:

Can be assembled with a nut or in a pre-tapped thread • Hex (Allan) Drive



Metric Socket Head Cap Screw Assortment

Art. No. 965.084

Contents: 310 pieces

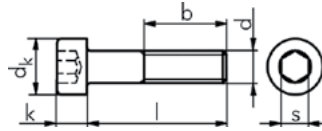
M4x10 (20), M4x16 (20), M5x10 (20), M5x16 (20), M5x20 (20), M5x25 (20),
M5x30 (20), M6x10 (20), M6x16 (20), M6x20 (20), M6x25 (20), M6x30 (20),
M6x35 (20), M6x40 (10), M8x16 (10), M8x20 (10), M8x25 (10), M8x30 (10)

| Thread Dia (d) | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |
|----------------|-----|----|-----|----|----|-----|-----|-----|-----|
| dk mm | 5.5 | 7 | 8.5 | 10 | 13 | 16 | 18 | 21 | 24 |
| b mm | 18 | 20 | 22 | 24 | 28 | 32 | 36 | 40 | 44 |
| s mm | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 |
| k mm | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 |

| Dia-Thread Pitch (d) | Length (l) mm | Steel 8.8 Clear Zinc | P. Qty. | Steel 12.9 Bare | P. Qty. | A2 Stainless | P. Qty. |
|----------------------|------------------|----------------------|------------------|------------------|------------------|------------------|---------|
| M3-0.5 | 16 | | | 083.3..16 | 200 | | |
| | 20 | | | | | 094.3..20 | 100 |
| M4-0.7 | 8 | 084.4..8 | 100 | | | 094.4..8 | 600 |
| | 10 | 084.4..10 | 100 | 083.4..10 | 100 | 094.4..10 | 400 |
| | 12 | | | 083.4..12 | 100 | 094.4..12 | 400 |
| | 16 | 084.4..16 | 100 | 083.4..16 | 100 | 094.4..16 | 100 |
| | 20 | | | 083.4..20 | 100 | 094.4..20 | 100 |
| | 25 | 084.4..25 | 100 | 083.4..25 | 100 | | |
| | 30 | | | 083.4..30 | 100 | 094.4..30 | 100 |
| M5-0.8 | 40 | 084.4..40 | 100 | | | | |
| | 6 | | | | | 094.5..6 | 100 |
| | 10 | 084.5..10 | 100 | 083.5..10 | 100 | 094.5..10 | 100 |
| | 12 | 084.5..12 | 100 | 083.5..12 | 100 | 094.5..12 | 100 |
| | 16 | 084.5..16 | 100 | 083.5..16 | 100 | 094.5..16 | 100 |
| | 18 | | | | | 094.5..18 | 100 |
| | 20 | 084.5..20 | 100 | 083.5..20 | 100 | 094.5..20 | 100 |
| | 25 | 084.5..25 | 100 | 083.5..25 | 100 | 094.5..25 | 100 |
| | 30 | 084.5..30 | 100 | 083.5..30 | 100 | | |
| | 35 | 084.5..35 | 100 | | | 094.5..35 | 100 |
| M6-1.0 | 40 | | | 083.5..40 | 100 | | |
| | 50 | | | 083.5..50 | 100 | | |
| | 60 | 084.5..60 | 50 | | | | |
| | 10 | 084.6..10 | 100 | 083.6..10 | 100 | 094.6..10 | 25 |
| | 12 | 084.6..12 | 100 | 083.6..12 | 100 | 094.6..12 | 100 |
| | 14 | | | | | 094.6..14 | 100 |
| | 16 | 084.6..16 | 100 | 083.6..16 | 100 | 094.6..16 | 100 |
| | 20 | 084.6..20 | 100 | 083.6..20 | 100 | 094.6..20 | 50 |
| | 25 | 084.6..25 | 100 | 083.6..25 | 100 | 094.6..25 | 100 |
| | 30 | 084.6..30 | 100 | 083.6..30 | 100 | 094.6..30 | 100 |
| | 35 | 084.6..35 | 100 | 083.6..35 | 100 | 094.6..35 | 100 |
| | 40 | 084.6..40 | 50 | 083.6..40 | 100 | 094.6..40 | 100 |
| | 45 | 084.6..45 | 50 | 083.6..45 | 50 | 094.6..45 | 100 |
| | 50 | 084.6..50 | 50 | 083.6..50 | 50 | 094.6..50 | 50 |
| | 55 | | | | | 094.6..55 | 100 |
| | 60 | 084.6..60 | 50 | 083.6..60 | 50 | 094.6..60 | 50 |
| 70 | | | 083.6..70 | 50 | | | |
| 75 | 084.6..75 | 25 | | | | | |
| 80 | | | | | 094.6..80 | 50 | |
| 90 | 084.6..90 | 25 | | | | | |

| Dia-Thread Pitch (d) | Length (l) mm | Steel 8.8 Clear Zinc | P. Qty. | Steel 12.9 Bare | P. Qty. | A2 Stainless | P. Qty. |
|----------------------|---------------|----------------------|------------------|------------------|-------------------|------------------|---------|
| M8-1.25 | 10 | 084.8..10 | 50 | 083.8..10 | 100 | 094.8..10 | 25 |
| | 12 | | | 083.8..12 | 200 | 094.8..12 | 25 |
| | 16 | 084.8..16 | 50 | 083.8..16 | 100 | 094.8..16 | 25 |
| | 20 | 084.8..20 | 50 | 083.8..20 | 100 | 094.8..20 | 25 |
| | 25 | 084.8..25 | 50 | 083.8..25 | 100 | 094.8..25 | 25 |
| | 30 | 084.8..30 | 50 | 083.8..30 | 100 | 094.8..30 | 25 |
| | 35 | 084.8..35 | 50 | 083.8..35 | 50 | 094.8..35 | 25 |
| | 40 | 084.8..40 | 50 | 083.8..40 | 50 | 094.8..40 | 25 |
| | 45 | 084.8..45 | 25 | 083.8..45 | 50 | 094.8..45 | 25 |
| | 50 | 084.8..50 | 25 | 083.8..50 | 50 | 094.8..50 | 25 |
| | 55 | | | 083.8..55 | 50 | 094.8..55 | 25 |
| | 60 | 084.8..60 | 25 | 083.8..60 | 50 | 094.8..60 | 25 |
| | 65 | | | | | 094.8..65 | 25 |
| | 70 | 084.8..70 | 25 | | | 094.8..70 | 25 |
| 80 | | | | | 094.8..80 | 25 | |
| 100 | | | | | 094.8..100 | 50 | |
| 110 | | | | | 094.8..110 | 50 | |
| M10-1.5 | 16 | | | | | 094.10.16 | 25 |
| | 20 | 084.10.20 | 25 | 083.10.20 | 50 | 094.10.20 | 25 |
| | 25 | 084.10.25 | 25 | 083.10.25 | 50 | 094.10.25 | 25 |
| | 30 | 084.10.30 | 25 | 083.10.30 | 50 | 094.10.30 | 25 |
| | 35 | 084.10.35 | 25 | 083.10.35 | 50 | 094.10.35 | 25 |
| | 40 | 084.10.40 | 25 | 083.10.40 | 50 | 094.10.40 | 25 |
| | 45 | | | 083.10.45 | 50 | 094.10.45 | 25 |
| | 50 | 084.10.50 | 25 | 083.10.50 | 50 | 094.10.50 | 25 |
| | 55 | | | 083.10.55 | 50 | 094.10.55 | 25 |
| | 60 | | | 083.10.60 | 25 | 094.10.60 | 25 |
| | 65 | | | 083.10.65 | 50 | | |
| | 70 | | | 083.10.70 | 25 | 094.10.70 | 25 |
| | 80 | | | 083.10.80 | 25 | | |
| 90 | | | 083.10.90 | 25 | | | |
| M12-1.75 | 20 | | | 083.12.20 | 25 | | |
| | 25 | | | 083.12.25 | 25 | 094.12.25 | 25 |
| | 30 | | | 083.12.30 | 25 | 094.12.30 | 25 |
| | 35 | | | 083.12.35 | 25 | | |
| | 40 | | | 083.12.40 | 25 | 094.12.40 | 25 |
| | 45 | | | 083.12.45 | 25 | 094.12.45 | 25 |
| | 50 | | | 083.12.50 | 25 | 094.12.50 | 25 |
| | 55 | | | 083.12.55 | 50 | 094.12.55 | 25 |
| | 60 | | | 083.12.60 | 50 | | |
| | 70 | | | 083.12.70 | 25 | 094.12.70 | 25 |
| 80 | | | 083.12.80 | 20 | 094.12.80 | 50 | |
| 220 | | | | | 094.12.90 | 50 | |
| M14-2.0 | 30 | | | | | 094.14.30 | 10 |
| | 40 | | | 083.14.40 | 50 | 094.14.40 | 10 |
| | 50 | | | 083.14.50 | 50 | 094.14.50 | 10 |
| M16-2.0 | 40 | | | 083.16.40 | 25 | | |
| | 50 | | | 083.16.50 | 25 | | |
| | 60 | | | 083.16.60 | 25 | | |
| | 70 | | | 083.16.70 | 50 | | |
| 90 | | | 083.16.90 | 25 | | | |
| M20-2.50 | 90 | | | 083.20.90 | 25 | | |

STANDARD SOCKET CAP SCREW



High Alloy Steel • Bare
 Stainless Steel 18.8 • OnDemand
 Stainless Steel 316

Features:
 Can be assembled with a nut or in a pre-trapped thread • Hex (Allan) Drive

Applications:
 Equipment Manufacturing • Construction
 Equipment • Cranes • Conveyor Systems •
 Trucking Frames • Transportation • Wind • MRO

| Thread Dia (d) | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Head Diameter (dk) | 0.222 | 0.266 | 0.307 | 0.370 | 0.463 | 0.556 | 0.649 | 0.743 | 0.930 | 1.116 |
| Head Height (k) | 0.136 | 0.161 | 0.188 | 0.247 | 0.309 | 0.373 | 0.434 | 0.496 | 0.621 | 0.745 |
| Length of thread (max) (b) | 1.05 | 1.19 | 1.27 | 1.50 | 1.71 | 1.94 | 2.17 | 2.38 | 2.82 | 3.25 |
| No. of threads/inch - UNF | 40 | 36 | 32 | 28 | 24 | 24 | 20 | 20 | 18 | 16 |
| No. of threads/inch - UNC | 32 | 32 | 24 | 20 | 18 | 16 | 14 | 13 | 11 | 10 |
| Hex-Drive (s) | 7/64 | 9/64 | 5/32 | 3/16 | 1/4 | 5/16 | 3/8 | 3/8 | 1/2 | 5/8 |

| Thread dia. (d) in inches. | Length (l) in inches | UNF, Bare | P. Qty. | UNC, Bare | P. Qty. | UNF, 316SS | P. Qty. | UNC, 316SS | P. Qty. |
|----------------------------|----------------------|---------------------|-------------------|---------------------|---------|-------------------|---------|---------------------|---------|
| #6 | 3/8 | | | 082.632.38 | 100 | | | | |
| | 1 | | | 082.632.1 | 100 | | | | |
| #8 | 3/8 | | | 082.832.38 | 100 | | | | |
| | 1 | | | 082.832.1 | 100 | | | | |
| #10 | 3/8 | 082.1032.38 | 100 | 082.1024.38 | 100 | | | | |
| | 1/2 | 082.1032.12 | 100 | 082.1024.12 | 100 | | | 081.1024.12 | 100 |
| | 5/8 | 082.1032.58 | 100 | | | | | | |
| | 3/4 | 082.1032.34 | 100 | 082.1024.34 | 100 | | | 081.1024.34 | 100 |
| | 1 | 082.1032.1 | 100 | 082.1024.1 | 100 | 081.1032.1 | 100 | 081.1024.1 | 100 |
| | 1-1/4 | 082.1032.114 | 100 | 082.1024.114 | 100 | | | 081.1024.114 | 100 |
| | 1-1/2 | 082.1032.112 | 100 | 082.1024.112 | 100 | | | | |
| 1/4 | 2 | | | 082.10.2 | 100 | | | | |
| | 1/2 | | | 082.14.12 | 50 | | | 081.14.12 | 50 |
| | 5/8 | | | 082.14.58 | 50 | | | | |
| | 3/4 | | | 082.14.34 | 50 | | | 081.14.34 | 50 |
| | 1 | | | 082.14.1 | 50 | | | 081.14.1 | 50 |
| | 1-1/4 | | | 082.14.114 | 50 | | | 081.14.114 | 50 |
| | 1-3/8 | | | 082.14.138 | 50 | | | | |
| | 1-1/2 | | | 082.14.112 | 50 | | | 081.14.112 | 50 |
| | 1-3/4 | | | 082.14.134 | 50 | | | | |
| | 2 | | | 082.14.2 | 50 | | | 081.14.2 | 25 |
| | 2-1/2 | | | 082.14.212 | 50 | | | 081.14.212 | 25 |
| | 3 | | | 082.14.3 | 50 | | | | |
| 5/16 | 3-1/2 | | | 082.14.312 | 25 | | | | |
| | 1/2 | | | 082.516.12 | 100 | | | 081.516.12 | 25 |
| | 3/4 | | | 082.516.34 | 100 | | | 081.516.34 | 25 |
| | 1 | | | 082.516.1 | 100 | | | 081.516.1 | 25 |
| | 1-1/4 | | | 082.516.114 | 100 | | | 081.516.114 | 25 |
| | 1-1/2 | | | 082.516.112 | 100 | | | 081.516.112 | 25 |
| | 1-3/4 | | | 082.516.134 | 50 | | | | |
| | 2 | | | 082.516.2 | 50 | | | 081.516.2 | 10 |
| | 2-1/2 | | | 082.516.212 | 50 | | | | |
| | 3 | | | 082.516.3 | 25 | | | | |
| 3/8 | 3-1/2 | | | 082.516.312 | 25 | | | 081.516.312 | 10 |
| | 1/2 | | | 082.38.12 | 100 | | | | |
| | 3/4 | | | 082.38.34 | 50 | | | 081.38.34 | 25 |
| | 1 | | | 082.38.1 | 50 | | | 081.38.1 | 25 |
| | 1-1/4 | | | 082.38.114 | 50 | | | 081.38.114 | 25 |
| | 1-1/2 | | | 082.38.112 | 50 | | | 081.38.112 | 25 |
| | 1-3/4 | | | 082.38.134 | 50 | | | | |
| | 2 | | | 082.38.2 | 50 | | | 081.38.2 | 25 |
| | 2-1/4 | | | 082.38.214 | 50 | | | | |
| | 2-1/2 | | | 082.38.212 | 25 | | | 081.38.212 | 10 |
| | 3 | | | 082.38.3 | 25 | | | 081.38.3 | 10 |
| | 3-1/2 | | | 082.38.312 | 25 | | | 081.38.312 | 5 |
| | 4 | | | 082.38.4 | 25 | | | | |
| 5 | | | 085.38.5 | 50 | | | | | |
| 7/16 | 1-1/4 | | | 082.716.114 | 25 | | | | |
| | 1-1/2 | | | 082.716.112 | 25 | | | | |
| | 2 | | | 082.716.2 | 25 | | | | |
| 1/2 | 1 | | | 082.12.1 | 25 | | | | |
| | 1-1/4 | | | 082.12.114 | 50 | | | | |
| | 1-1/2 | | | 082.12.112 | 25 | | | | |
| | 1-3/4 | | | 082.12.134 | 50 | | | | |
| | 2 | | | 082.12.2 | 25 | | | 081.12.2 | 10 |
| | 2-1/4 | | | 082.12.214 | 25 | | | | |
| | 2-1/2 | | | 082.12.212 | 25 | | | 081.12.212 | 10 |
| | 3 | | | 082.12.3 | 25 | | | 081.12.3 | 10 |
| | 3-1/2 | | | 082.12.312 | 50 | | | | |
| | 4 | | | 082.12.4 | 25 | | | | |
| 4-1/2 | | | 082.12.412 | 25 | | | | | |

Pack sizes subject to change without notice

| Thread dia. (d) in inches. | Length (l) in inches | UNF, Bare | P. Qty. | UNC, Bare | P. Qty. | UNF, 316SS | P. Qty. | UNC, 316SS | P. Qty. |
|----------------------------|----------------------|-----------|---------|-------------------|---------|------------|---------|------------|---------|
| 5/8 | 1 | | | 082.58.1 | 50 | | | | |
| | 1-1/2 | | | 082.58.112 | 50 | | | | |
| | 2 | | | 082.58.2 | 50 | | | | |
| | 2-1/4 | | | 082.58.214 | 25 | | | | |
| | 2-1/2 | | | 082.58.212 | 25 | | | | |
| | 3 | | | 082.58.3 | 25 | | | | |
| 3/4 | 3-1/2 | | | 082.58.312 | 25 | | | | |
| | 1-1/4 | | | 082.34.114 | 5 | | | | |

ASSORTMENTS



Art. No. 965.082

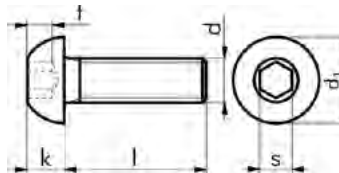
Socket Head Cap Screw Assortment

Bare steel, coarse (UNC) High alloy steel

Contents (160 pieces):

16 assorted sizes, size range: 1/4", 5/16", 3/8", 1/2"

METRIC BUTTON HEAD SOCKET CAP SCREWS



Fully Threaded

Bare Steel • Class 10.9

Stainless Steel A2

Applications:

Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems •
Trucking Frames • Transportation • Wind • MRO

Features:

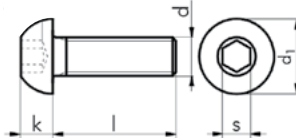
Can be assembled with a nut or in a pre-tapped thread • Hex (Allan) Drive

| Thread Dia (d) | M4 | M5 | M6 | M8 | M10 |
|----------------|------|------|------|------|------|
| Head dia. d1 | 7.4 | 9.3 | 10.3 | 13.8 | 17.3 |
| Head height k | 2.07 | 2.62 | 3.15 | 4.22 | 5.35 |
| Hex-Drive s | 2.5 | 3 | 4 | 5 | 6 |

| Dia-Thread Pitch (d) | Length (l) mm | Steel 10.9, Bare | P. Qty. | A2 Stainless | P. Qty. |
|----------------------|---------------|------------------|---------|------------------|---------|
| M4-0.7 | 6 | 090.4..6 | 50 | 098.4..6 | 50 |
| | 8 | | | | |
| | 10 | 090.4..10 | 50 | 098.4..10 | |
| | 20 | | | 098.4..20 | |
| | 25 | | | 098.4..25 | |
| | 30 | | | 098.4..30 | |
| M5-0.8 | 8 | | | 098.5..8 | |
| | 10 | 090.5..10 | 50 | 098.5..10 | |
| | 12 | | | 098.5..12 | |
| | 16 | 090.5..16 | 50 | 098.5..16 | |
| | 20 | 090.5..20 | 50 | 098.5..20 | |
| | 25 | | | 098.5..25 | |
| | 30 | 090.5..30 | 50 | 098.5..30 | |
| | 35 | | | 098.5..35 | |
| | 40 | | | 098.5..40 | |
| | | | | | |

| | | | | | |
|---------|----|-------------------|------------------|-------------------|-----|
| M6-1.0 | 8 | | | 098.6..8 | 50 |
| | 10 | 090.6..10 | 50 | 098.6..10 | 100 |
| | 12 | | | 098.6..12 | 50 |
| | 16 | 090.6..16 | 50 | 098.6..16 | |
| | 20 | 090.6..20 | 50 | 098.6..20 | |
| | 25 | 090.6..25 | 50 | 098.6..25 | |
| 30 | | | 098.6..30 | | |
| 40 | | | 098.6..40 | | |
| M8-1.25 | 45 | | | 098.6..45 | 25 |
| | 50 | | | 098.6..50 | |
| | 10 | | | 098.8..10 | |
| | 12 | 090.8..12 | 50 | 098.8..12 | |
| | 20 | 090.8..20 | 50 | 098.8..20 | |
| | 30 | 090.8..30 | 50 | 098.8..30 | |
| M10-1.5 | 35 | | | 098.8..35 | 25 |
| | 40 | 090.8..40 | 50 | 098.8..40 | |
| | 45 | | | 098.8..45 | |
| | 50 | | | 098.8..50 | |
| | 16 | | | 098.10..16 | |
| | 20 | 090.10..20 | 50 | 098.10..20 | |
| | 25 | | | 098.10..25 | 50 |
| | 30 | | | 098.10..30 | |
| | 40 | | | 098.10..40 | |

STANDARD BUTTON HEAD SOCKET CAP SCREW



High Alloy Steel • Bare
Stainless Steel 18.8 • OnDemand

Features:

Can be assembled with a nut or in a pre tapped thread • Hex (Allan) Drive

Applications:

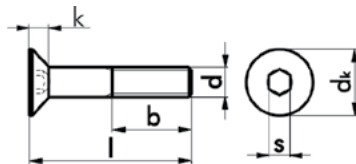
Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems • Trucking
Frames • Transportation • Wind • MRO

| Thread Dia (d) | #4 | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 | 1/2 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Head Diameter (d1) | 0.207 | 0.256 | 0.305 | 0.354 | 0.428 | 0.537 | 0.646 | 0.863 |
| Head Height (k) | 0.055 | 0.068 | 0.082 | 0.096 | 0.127 | 0.159 | 0.192 | 0.255 |
| No. of threads/inch - UNF | 48 | 40 | 36 | 32 | 28 | 24 | 24 | 20 |
| No. of threads/inch - UNC | 40 | 32 | 32 | 24 | 20 | 18 | 16 | 13 |
| Hex-Drive (s) | 1/16 | 5/64 | 3/32 | 1/8 | 5/32 | 3/16 | 7/32 | 5/16 |

| Thread dia. (d) in inches | Length (l) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|----------------------|--------------------|---------|------------------|---------|
| #4 | 1/2 | | | 092.4..12 | 50 |
| | | | | | |
| #6 | 1/4 | 091.6..14 | 200 | 092.6..14 | 50 |
| | 1/2 | 091.6..12 | 100 | 092.6..12 | 100 |
| #8 | 1/4 | | | 092.8..14 | 100 |
| | 3/8 | | | 092.8..38 | 100 |
| | 1/2 | | | 092.8..12 | 100 |
| | 3/4 | | | 092.8..34 | 100 |
| #10 | 3/8 | 091.10.38 | 50 | 092.10.38 | 50 |
| | 1/2 | 091.10.12 | 50 | 092.10.12 | 50 |
| | 5/8 | 092.1032.58 | 50 | | |
| | 3/4 | | | 092.10.34 | 100 |
| | 1 | 091.10.1 | 50 | 092.10.1 | 50 |

| Thread dia. (d) in inches | Length (l) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|----------------------|------------------|---------|--------------------|---------|
| 1/4 | 1/2 | | | 092.14.12 | 100 |
| | 3/4 | 091.14.34 | 100 | 092.14.34 | 100 |
| | 7/8 | | | 092.14.78 | 50 |
| | 1 | 091.14.1 | 50 | 092.14.1 | 100 |
| 5/16 | 1-1/2 | | | 092.14.112 | 100 |
| | 1 | | | 092.516.1 | 100 |
| 3/8 | 1-3/4 | | | 092.516.134 | 100 |
| | 3/4 | | | 092.38.34 | 100 |
| 1/2 | 1 | | | 092.38.1 | 100 |
| | 1-1/4 | | | 092.12.114 | 25 |
| | 1-1/2 | | | 092.12.112 | 25 |

METRIC FLAT HEAD SOCKET CAP SCREWS



DIN 7991 Fully Threaded

Stainless Steel A2

Applications:

Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems • Trucking
Frames • Transportation • Wind • MRO

Features:

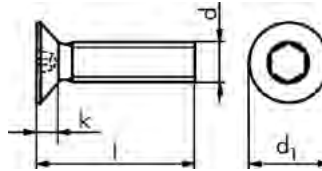
Can be assembled with a nut or in a pre tapped thread • Hex (Allan) Drive

Partially Threaded*

| Thread Dia (d) | M5 | M6 |
|----------------|------|------|
| dk in mm | 10.0 | 12.0 |
| b in mm | 16.0 | 18.0 |
| s in mm | 3.0 | 4.0 |
| k in mm | 2.8 | 3.3 |

| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|---------------|-------------------|---------|
| M5-0.8 | 10 | 086.5..10 | 100 |
| | 12 | 086.5..12 | |
| | 20 | 086.5..20* | |
| | 25 | 086.5..25 | |
| M6-1.0 | 8 | 086.6..8 | 100 |
| | 10 | 086.6..10 | |
| | 12 | 086.6..12 | |
| | 16 | 086.6..16 | |
| | 20 | 086.6..20* | |
| | 25 | 086.6..25* | |
| | 45 | 086.6..45* | |
| | 50 | 086.6..50* | |
| M8-1.25 | 25 | 086.8..25 | 100 |
| | 30 | 056.8..30 | |

STANDARD FLAT HEAD SOCKET CAP SCREWS



High Alloy Steel • Bare
Stainless Steel • OnDemand

Features:

Can be assembled with a nut or in a pre-tapped thread • Hex (Allan) Drive

Applications:

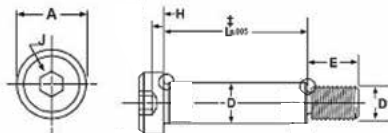
Equipment Manufacturing • Construction Equipment • Cranes • Conveyor Systems • Trucking Frames • Transportation • Wind • MRO

| Thread Dia (d) | #4 | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 | 1/2 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Head Diameter (d1) | 0.218 | 0.263 | 0.311 | 0.359 | 0.480 | 0.600 | 0.720 | 0.872 |
| Head Height (k) | 0.083 | 0.097 | 0.112 | 0.127 | 0.161 | 0.198 | 0.234 | 0.251 |
| Length of thread (max) | 0.99 | 1.05 | 1.19 | 1.27 | 1.50 | 1.71 | 1.94 | 2.38 |
| No. of threads/inch - UNF | 48 | 40 | 36 | 32 | 28 | 24 | 24 | 20 |
| No. of threads/inch - UNC | 40 | 32 | 32 | 24 | 20 | 18 | 16 | 13 |
| Hex-Drive | 1/16 | 5/64 | 3/32 | 1/8 | 5/32 | 3/16 | 7/32 | 5/16 |

| Thread dia. (d) in inches | Length (l) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|----------------------|---------------------|---------|--------------------|---------|
| #4 | 1/4 | 087.440.14 | 100 | | |
| | 1/2 | 087.440.12 | | | |
| | 1 | 087.440.1 | | | |
| #6 | 1 | | | 087.632.1 | 50 |
| #8 | 1/2 | | | 087.832.12 | |
| | 1 | | | 087.832.1 | |
| #10 | 3/8 | 087.1032.38 | 100 | 087.1024.12 | 100 |
| | 1/2 | 087.1032.12 | | | |
| | 5/8 | 087.1032.58 | | 50 | |
| | 3/4 | 087.1032.34 | 100 | 087.1024.34 | 100 |
| | 1 | 087.1032.1 | | 087.1024.1 | |
| | 1-1/4 | 087.1032.114 | 50 | | |
| | 1-1/2 | 087.1032.112 | | | |
| 1/4 | 1/2 | | | 087.14.12 | 100 |
| | 5/8 | | | 087.14.58 | |
| | 3/4 | 087.1428.34 | 100 | 087.14.34 | |
| | 1 | | | 087.14.1 | |
| | 1-1/4 | | | 087.14.114 | |
| | 1-1/2 | | | 087.14.112 | |
| | 2 | | | 087.14.2 | |

| Thread dia. (d) in inches | Length (l) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|----------------------|----------------------|---------|--------------------|---------|
| 5/16 | 1/2 | | | 087.516.12 | 50 |
| | 5/8 | | | 087.516.58 | |
| | 3/4 | | | 087.516.34 | |
| | 1 | 087.51624.1 | 100 | 087.516.1 | |
| | 1-1/4 | | | 087.516.114 | |
| | 1-1/2 | 087.51624.112 | 100 | 087.516.112 | |
| | 2 | | | 087.516.2 | |
| 3/8 | 3/4 | | | 087.38.34 | 25 |
| | 1 | 087.3824.1 | 200 | 087.38.1 | |
| | 1-1/4 | | | 087.38.114 | |
| | 1-1/2 | 087.3824.112 | 50 | 087.38.112 | |
| | 2 | | | 087.38.2 | |
| 1/2 | 1 | | | 087.12.1 | 50 |
| | 1-1/4 | | | 087.12.114 | |
| | 1-1/2 | | | 087.12.112 | |
| | 2 | | | 087.12.2 | |
| | 2-1/2 | | | 087.12.212 | |

METRIC SOCKET SHOULDER BOLTS



ISO 7379

Alloy • Class 12.9 • Bare

Applications:

Equipment Manufacturing • Construction Equipment • Cranes • Conveyor Systems • Trucking Frames • Transportation • Wind • MRO

Features:

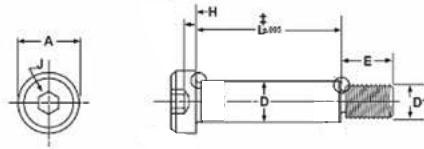
Can be assembled with a nut or in a pre-tapped thread • Hex (Allan) Drive

| Shank dia. | Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|------------|----------------------|---------------|------------------|---------|
| M6 | M5-1.0 | 12 | 085.6..12 | 50 |
| | | 20 | 085.6..20 | |
| | | 25 | 085.6..25 | |
| | | 30 | 085.6..30 | |
| | | 50 | 085.6..50 | |
| M8 | M6-1.25 | 12 | 085.8..12 | 25 |
| | | 25 | 085.8..25 | |
| | | 30 | 085.8..30 | |
| | | 40 | 085.8..40 | |
| M10 | M8-1.5 | 40 | 085.10.40 | |

| Shank dia. D | M6 | M8 | M10 |
|-----------------|------|-------|-------|
| Head Diameter A | 10 | 13 | 16 |
| Head Height H | 4.5 | 5.5 | 7 |
| Thread Size D1 | M5 | M6 | M8 |
| Thread Length E | 9.75 | 11.25 | 13.25 |
| Hex-Drive J | 3 | 4 | 5 |

STANDARD SOCKET SHOULDER BOLTS

High Alloy Steel • Bare
Stainless Steel 18.8 • OnDemand



| Shank dia. (d) | 1/4 | 5/16 | 3/8 | 1/2 |
|---------------------------|-------|-------|-------|-------|
| Head Diameter max. (A) | 0.375 | 0.438 | 0.562 | 0.750 |
| Head Height max. (H) | 0.188 | 0.218 | 0.250 | 0.312 |
| Thread Size (D1) | #10 | 1/4 | 5/16 | 3/8 |
| Thread Length (E) | 0.375 | 0.438 | 0.500 | 0.625 |
| No. of threads/inch - UNC | 20 | 18 | 16 | 13 |
| Hex-Drive (J) | 1/8 | 5/32 | 3/16 | 1/4 |

| Shank dia. (d) | Dia-Thread Pitch (d1) | Shank length (l) in inches | Art. No. | P. Qty. |
|----------------|-----------------------|----------------------------|--------------------|---------|
| 1/4 | #10 - 24 | 3/8 | 088.14.38 | 25 |
| | | 1/2 | 088.14.12 | |
| | | 3/4 | 088.14.34 | |
| | | 1 | 088.14.1 | |
| | | 1-1/4 | 088.14.114 | |
| | | 1-1/2 | 088.14.112 | |
| | | 2 | 088.14.2 | |
| 5/16 | 1/4 - 20 | 3/8 | 088.516.38 | 15 |
| | | 1/2 | 088.516.12 | |
| | | 3/4 | 088.516.34 | |
| | | 1 | 088.516.1 | |
| | | 1-1/4 | 088.516.114 | |
| | | 1-1/2 | 088.516.112 | |
| | | 1-3/4 | 088.516.134 | |
| | | 2 | 088.516.2 | |

| Shank dia. (d) | Dia-Thread Pitch (d1) | Shank length (l) in inches | Art. No. | P. Qty. |
|----------------|-----------------------|----------------------------|-------------------|---------|
| 3/8 | 5/16 - 18 | 3/8 | 088.38.38 | 25 |
| | | 1/2 | 088.38.12 | |
| | | 3/4 | 088.38.34 | |
| | | 1 | 088.38.1 | |
| | | 1-1/4 | 088.38.114 | |
| | | 1-1/2 | 088.38.112 | |
| | | 1-3/4 | 088.38.134 | |
| 1/2 | 3/8 - 16 | 2 | 088.38.2 | 10 |
| | | 3/8 | 088.12.38 | 15 |
| | | 1/2 | 088.12.12 | |
| | | 3/4 | 088.12.34 | 10 |
| | | 1 | 088.12.1 | 25 |
| | | 1-1/4 | 088.12.114 | |
| | | 1-1/2 | 088.12.112 | |
| | | 1-3/4 | 088.12.134 | |
| 2 | 088.12.2 | 5 | | |

ASSORTMENTS



Art. No. 964.255

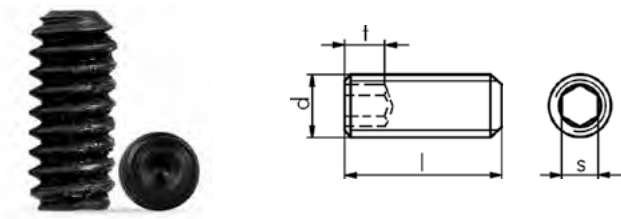
Metric Set Screw Assortment

Steel, flat point DIN 913, cone point DIN 914, Dog point DIN 915

Contents (540 pieces):

18 assorted sizes, size range M5 - M8

STANDARD SOCKET SET SCREWS - CUP POINT



Coarse Thread
Hex (Allan) Drive
Alloy • Bare
Stainless Steel 18.8

Applications:

- Equipment Manufacturing •
- Construction Equipment • Electronics
- Conveyor/Pulley Systems • Trucking
- Transportation • Wind • MRO

| Thread Dia (d) | #4 | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hex-Drive (s) | 0.050 | 1/16 | 5/64 | 3/32 | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 |
| Hex Socket depth (t) | 0.070 | 0.080 | 0.090 | 0.100 | 0.125 | 0.156 | 0.188 | 0.219 | 0.250 |
| No. of threads/inch UNC | 40 | 32 | 32 | 24 | 20 | 18 | 16 | 14 | 13 |

Features:

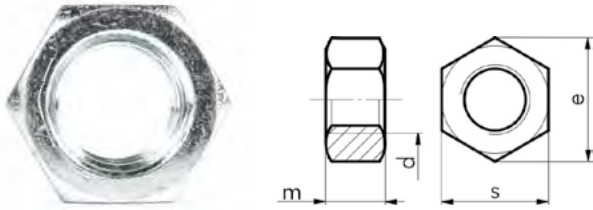
Cup Point • Hex (Allan) Drive

Point Styles:

- Cup** – The most commonly used set screw style. Hollowed end, used when digging of the point is not desired.
- Cone** – Used for a permanent connection. This pointed end style generates the highest torsional holding power.
- Oval** – Typically used when frequent adjustment is required. The rounded end prevents and/or reduces indentation
- Flat** – Causes minimal damage to shafts and is used when frequent adjustment is required.
- Dog** – Threads stop short of the flat end, with the end fitting into hole.

| Thread dia. (d) in inches | Length (l) in inches | Bare | P. Qty. | 18-8 SS | P. Qty. |
|---------------------------|----------------------|--------------------|---------|--------------------|---------|
| #4 | 1/4 | 255.440.14 | 25 | | |
| | 1/8 | 255.632.18 | | | |
| #6 | 3/16 | 255.632.316 | | | |
| | 1/4 | 255.632.14 | | | |
| | 3/8 | 255.632.38 | 100 | | |
| | 1/2 | 255.632.12 | | | |
| #8 | 3/16 | 255.832.316 | | | |
| | 1/4 | 255.832.14 | | | |
| | 3/8 | 255.832.38 | | | |
| #10 | 1/2 | 255.832.12 | 50 | | |
| | 3/4 | 255.1024.34 | | | |
| | 1/4 | 255.1024.14 | | | |
| | 3/8 | 255.1024.38 | 100 | | |
| 1/4 | 1/2 | 255.1025.12 | | | |
| | 3/4 | 255.1024.34 | | | |
| | 1/4 | 255.14.14 | 50 | | |
| | 5/8 | | | 256.14.516 | 100 |
| | 3/8 | 255.14.38 | | | |
| 5/16 | 1/2 | 255.14.12 | 50 | 256.14.12 | 100 |
| | 5/8 | 255.14.58 | | | |
| | 3/4 | 255.14.34 | | 256.14.34 | |
| | 5/16 | | | 256.516.516 | 100 |
| 3/8 | 3/8 | 255.516.38 | | | |
| | 1/2 | 255.516.12 | 50 | 256.516.38 | |
| | 3/4 | 255.516.34 | | 256.516.12 | |
| | 5/16 | | | 256.38.516 | 100 |
| | 3/8 | 255.38.38 | | | |
| 7/16 | 1/2 | 255.38.12 | | | |
| | 3/4 | 255.38.34 | | 256.38.34 | 100 |
| | 1 | 255.38.1 | | 256.38.1 | 100 |
| | 1/2 | 255.716.12 | 25 | | |
| 1/2 | 3/4 | 255.716.34 | | | |
| | 3/8 | | | | |
| | 1/2 | 255.12.12 | | 256.12.12 | |
| | 5/8 | | | 256.12.58 | 50 |
| | 3/4 | 255.12.34 | 25 | 256.12.34 | |

METRIC HEXAGON NUTS



DIN 934 (ISO 4032)

Steel • Class 8.8 • Clear Zinc Plated
 Steel • Class 8.8 • Yellow Zinc Plated
 Steel • Class 10.9 • Bare
 Steel • Class 10.9 • Yellow Zinc Plated
 Steel • Class 10.9 • Clear Zinc Plated
 Stainless Steel A2

Applications:

Transportation • Agriculture • Heavy Equipment • Construction • Mining • Off Road • Trucking • Rotary

| Metric coarse thread | | | | | | | | | | | | | | | |
|----------------------|---------|---------|---------|----------------------|-----|-----------------------|-----|-----------------|-----|------------------------|-----|-----------------------|-----|---------------|----|
| Dia-Thread Pitch (d) | s in mm | e in mm | m in mm | Steel 8.8 Clear Zinc | P. | Steel 8.8 Yellow Zinc | P. | Steel 10.9 Bare | P. | Steel 10.9 Yellow Zinc | P. | Steel 10.9 Clear Zinc | P. | A2 Stainless | P. |
| M3-0.5 | 5.5 | 6.01 | 2.4 | 317.3 | 100 | | | | | | | | | | |
| M4-0.7 | 7 | 7.66 | 3.2 | 317.4 | 100 | | | | | | | | | 323.4 | 50 |
| M5-0.8 | 8 | 8.79 | 4 | 317.5 | 100 | | | | | | | | | 323.5 | 50 |
| M6-1.0 | 10 | 11.05 | 5 | 317.6 | 100 | 317.06 | 100 | 320.6 | 100 | 324.6 | 100 | 325.6 | 100 | 323.6 | 50 |
| M7-1.0 | 11 | 12.12 | 5.5 | 317.7 | 100 | | | | | | | | | 323.8 | 50 |
| M8-1.25 | 13 | 14.38 | 6.5 | 317.8 | 100 | 317.08 | 100 | 320.8 | 100 | 324.8 | 100 | 325.8 | 100 | | |
| M8-1.25* | 12 | 11.28 | 6.5 | 317.8..12 | 50 | | | | | | | | | | |
| M10-1.5 | 17 | 18.9 | 8 | 317.10 | 100 | | | 320.10 | 100 | 324.10 | 50 | 325.10 | 50 | 323.10 | 25 |
| M10-1.5* | 15 | 18.4 | 8 | 317.10.15 | 50 | | | | | | | | | | |
| M12-1.75 | 19 | 21.1 | 10 | 317.12 | 50 | | | 320.12 | 100 | 324.12 | 50 | 325.12 | 50 | 323.12 | 25 |
| M14-2.0 | 22 | 24.49 | 11 | 317.14 | 50 | | | 320.14 | 50 | 324.14 | 50 | | | | |
| M16-2.0 | 24 | 26.75 | 13 | 317.16 | 25 | | | 320.16 | 50 | 324.16 | 25 | | | 323.16 | 25 |
| M18-2.5 | 27 | 29.56 | 15 | 317.18 | 25 | | | | | 324.18 | 25 | | | | |
| M20-2.5 | 30 | 32.95 | 16 | 317.20 | 25 | | | 320.20 | 25 | 324.20 | 25 | | | | |
| M24-3.0 | 36 | 39.55 | 19 | 317.24 | 10 | | | | | 324.24 | 25 | | | | |

* with smaller width across flats

| Metric fine thread | | | | | | | |
|----------------------|---------|---------|---------|-----------------------|---------|-------------------------|---------|
| Dia-Thread Pitch (d) | s in mm | e in mm | m in mm | Steel 8.8, Clear Zinc | P. Qty. | Steel 10.9, Yellow Zinc | P. Qty. |
| M8-1.0 | 13 | 14.38 | 6.5 | 317.8..113 | 50 | | |
| M10-1.0 | 17 | 18.9 | 8 | 317.10.1 | | 324.10.1 | 50 |
| M10-1.25 | 17 | 18.9 | 8 | 317.10.125 | | | |
| M10-1.25 | 17 | 18 | 8 | 317.10.141 | | | |
| M12-1.25 | 19 | 21.1 | 10 | 317.12.125 | | | |
| M12-1.5 | 19 | 21.1 | 10 | 317.12.15 | 25 | 324.12.15 | 50 |
| M14-1.5 | 22 | 24.49 | 11 | 317.14.15 | | 324.14.15 | 50 |
| M16-1.5 | 24 | 26.75 | 13 | 317.16.15 | | 324.16.15 | 25 |
| M18-1.5 | 27 | 29.56 | 15 | 317.18.15 | | 324.18.15 | 25 |
| M20-1.5 | | | | 317.20.15 | | | |

ASSORTMENTS



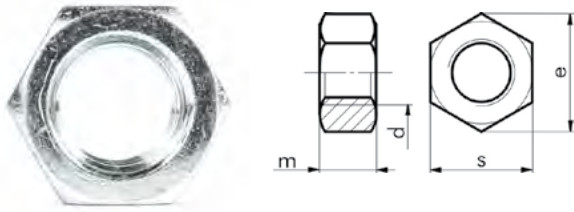
Art. No. 964.317

Metric Hex Nut Assortment

Steel, Zinc-Plated, DIN 934

Contents (1035 Pieces): 8 assorted sizes, size range M3-M16

STANDARD HEX NUTS



Steel • GR 5 • Clear Zinc Plated
 Steel • GR 8 • Yellow Zinc Plated
 Stainless Steel 18.8
 Stainless Steel 316

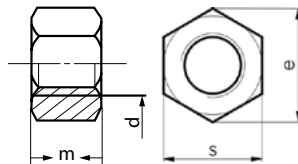
Applications:

Transportation • Agriculture • Heavy Equipment •
 Construction • Mining • Off Road • Trucking • Rotary

| Thread Dia. (d) | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 | 1-1/4 | 1-1/2 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---------|--------|---------|
| width across flats (s) | 0.307 | 0.338 | 0.369 | 7/16 | 1/2 | 9/16 | 11/16 | 3/4 | 7/8 | 15/16 | 1-1/8 | 1-5/16 | 1-1/2 | 1-11/16 | 1-7/8 | 2-1/16 |
| width across corners (e) max. | 0.361 | 0.397 | 0.433 | 0.505 | 0.577 | 0.650 | 0.794 | 0.866 | 1.010 | 1.083 | 1.299 | 1.516 | 1.732 | 1.949 | 2.165 | 2.598 |
| Thickness (m) | 0.109 | 0.123 | 0.124 | 7/32 | 17/64 | 21/64 | 3/8 | 7/16 | 31/64 | 35/64 | 41/64 | 3/4 | 55/64 | 31/32 | 1-1/16 | 1-11/64 |
| T.P.I. UNF | 40 | 36 | 32 | 28 | 24 | 24 | 20 | 20 | 18 | 18 | 16 | 14 | 14 | 12 | 12 | 12 |
| T.P.I. UNC | 32 | 32 | 24 | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 7 | 6 |

| Thread dia. (d) in inches | UNF, Grade 5, Clear Zinc | P. Qty. | UNC, Grade 5, Clear Zinc | P. Qty. | UNF, Grade 8, Yellow Zinc | P. Qty. | UNC, Grade 8, Yellow Zinc | P. Qty. | UNC, 18-8 SS | P. Qty. | UNC, 316 SS | P. Qty. |
|---------------------------|--------------------------|---------|--------------------------|---------|---------------------------|---------|---------------------------|---------|------------------|---------|--------------------|---------|
| #6 | | | | | | | | | 340.6 | 100 | | |
| #8 | | | | | | | | | 340.8 | 100 | | |
| #10 | | | | | | | | | 340.10 | 100 | 340.316.316 | 25 |
| #10 | | | | | | | | | 340.1032* | 100 | | |
| 1/4 | 331.14 | 100 | 330.14 | 100 | 333.14 | 100 | 332.14 | 100 | 340.14 | 50 | 340.316.14 | 50 |
| 5/16 | 331.516 | 100 | 330.516 | 100 | 333.516 | 50 | 332.516 | 100 | 340.516 | 50 | 340.316.516 | 50 |
| 3/8 | 331.38 | 100 | 330.38 | 100 | 333.38 | 50 | 332.38 | 100 | 340.38 | 25 | 340.316.38 | 25 |
| 7/16 | 331.716 | 50 | 330.716 | 100 | 333.716 | 50 | 332.716 | 50 | 340.716 | 25 | | |
| 1/2 | 331.12 | 50 | 330.12 | 100 | 333.12 | 50 | 332.12 | 50 | 340.12 | 25 | 340.316.12 | 25 |
| 9/16 | 331.916 | 25 | 330.916 | 50 | 333.916 | 50 | 332.916 | 50 | | | | |
| 5/8 | 331.58 | 25 | 330.58 | 50 | 333.58 | 50 | 332.58 | 50 | 340.58 | 25 | 340.316.58 | 10 |
| 3/4 | 331.34 | 25 | 330.34 | 50 | 333.34 | 25 | 332.34 | 25 | 340.34 | 25 | 340.316.34 | 10 |
| 7/8 | | | 330.78 | 25 | 333.78 | 20 | 332.78 | 25 | | | | |
| 1 | | | 330.1 | 10 | 333.1 | 10 | 332.1 | 10 | | | | |
| 1-1/8 | | | | | | | 332.118 | 5 | | | | |
| 1-1/4 | | | 330.114 | 5 | | | 332.114 | 5 | | | | |
| 1-1/2 | | | | | | | 332.112 | 5 | | | | |

STANDARD DEEP NUTS



Fine Thread • Black phosphate and oil finish
 Steel • GR 8 • UNF • double thickness nuts

Function:

High Torque Applications with High Tensile
 Strength Bolts or Studs • Heavy Duty Truck
 Wheels • Spring Centre Bolts or U Bolts

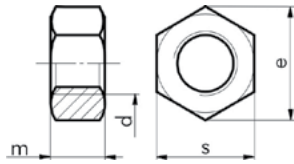
Applications:

Heavy Equipment • Trucking • Agriculture • Mining

| Diameter (d) | 3/4 | 7/8 | 1 |
|------------------------|--------|--------|--------|
| Width across flats (s) | 1-1/16 | 1-1/4 | 1-7/16 |
| Height (m) | 1 | 1-5/32 | 1-5/16 |
| T.P.I. UNF | 16 | 14 | 14 |

| Thread dia. (d) in inches | Art. No. | P. Qty. |
|---------------------------|---------------|---------|
| 1/2 | 364.12 | 10 |
| 3/4 | 364.34 | |
| 7/8 | 364.78 | |
| 1 | 364.1 | |

STANDARD HEX JAM NUTS



Steel • GR 2 • Clear Zinc Plated
 Steel • GR 2 • Clear Zinc Plated • Left-hand Threads
 Bare • OnDemand

Function:

Typically used as a locking nut, where it is 'jammed' up against a standard nut, locking the two in place. Also used when clearance is an issue, where a standard nut will not fit.

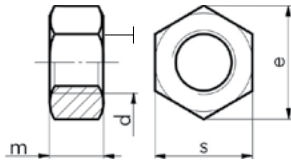
Applications:

High Vibration • Transportation • Heavy Equipment • Alternative Energy • Mining • Agriculture • Off Road • Trucking

| Diameter(d) | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---------|
| width across flats (s) | 7/16 | 1/2 | 9/16 | 11/16 | 3/4 | 7/8 | 15/16 | 1-1/8 | 1-5/16 | 1-1/2 | 1-11/16 |
| width across corners (e) max. | 0.505 | 0.577 | 0.650 | 0.794 | 0.866 | 1.010 | 1.083 | 1.299 | 1.516 | 1.732 | 1.949 |
| Thickness (m) | 5/32 | 3/16 | 7/32 | 1/4 | 5/16 | 5/16 | 3/8 | 27/64 | 31/64 | 35/64 | 39/64 |
| T.P.I. UNF | 28 | 24 | 24 | 20 | 20 | 18 | 18 | 16 | 14 | 12 | 12 |
| T.P.I. UNC | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 |

| Thread dia. (d) in inches | UNF, Clear Zinc | P. Qty. | UNC, Clear Zinc | P. Qty. |
|---------------------------|-----------------|---------|-----------------|---------|
| 5/16 | 309.516 | 100 | 308.516 | 100 |
| 3/8 | | | 308.38 | 100 |
| 1/2 | | | 308.12 | 100 |
| 5/8 | 309.58 | 50 | 308.58 | 50 |
| 3/4 | 309.34 | 50 | | |
| 7/8 | 309.78 | 25 | | |

STANDARD HEX MACHINE SCREW NUTS



Steel • GR 2 • Clear Zinc Plated

Function:

Designed for use with machine screws in moderate to light loads. Used with bolts for heavier loads.

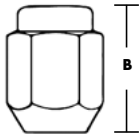
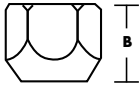
Applications:

High Vibration • Transportation • Construction • Heavy Equipment • Alternative Energy • Mining • Agriculture • Rotary

| Diameter(d) | #4 | #6 | #8 | #10 | #12 | 1/4 |
|-------------------------------|-------|-------|-------|-------|-------|-------|
| width across flats (s) | 1/4 | 5/16 | 11/32 | 3/8 | 7/16 | 7/16 |
| width across corners (e) max. | 0.354 | 0.442 | 0.486 | 0.530 | 0.615 | 0.619 |
| Thickness (m) | 0.092 | 0.108 | 0.124 | 0.124 | 0.155 | 0.186 |
| T.P.I. UNF | 48 | 40 | 36 | 32 | 28 | 28 |
| T.P.I. UNC | 40 | 32 | 32 | 24 | 24 | 20 |

| Thread dia. (d) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|------------------|---------|------------------|---------|
| #4 | | | 329.4..40 | 100 |
| #6 | | | 329.6..32 | |
| #8 | | | 329.8..32 | |
| #10 | 329.10.32 | 100 | 329.10.24 | |
| #12 | | | 329.12.24 | |
| 1/4 | | | 329.14.20 | |

TOYOTA WHEEL NUTS

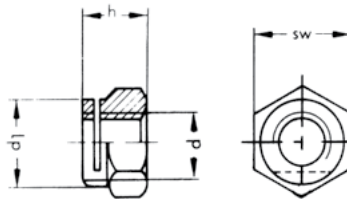


Applications:

- Passenger Car/Light Truck.
- For use in replacing the chrome wheel nuts when steel wheels replace aluminum mag wheels.

| Ref. | Size | A | B | Finish | Art. No. | P. Qty |
|------|-----------|------|------|--------|---------------|--------|
| 1 | M12 x 1.5 | 21mm | 16mm | Zinc | 360.18 | 100 |
| 2 | | | 35mm | Chrome | 360.35 | 50 |

METRIC SLOTTED LOCKING EXHAUST NUTS



Material:

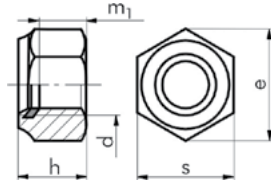
Steel with heavy copper coating
 Temperature resistant from -70 °C to +400 °C (-94 °F to +752 °F)

| DIN 14440 (standard wrench size) | | | | | |
|----------------------------------|------------------|----------|----------|--------------|---------|
| Dia-Thread Pitch (d) | Height in mm (h) | d1 in mm | sw in mm | Art. No. | P. Qty. |
| M8-1.25 | 8.5 | 12.5 | 13 | 365.2 | 50 |
| M10-1.5 | 10.5 | 16.5 | 17 | 365.3 | 50 |

| DIN 14441 (small wrench size) | | | | | |
|-------------------------------|------------------|----------|----------|---------------|---------|
| Dia-Thread Pitch (d) | Height in mm (h) | d1 in mm | sw in mm | Art. No. | P. Qty. |
| M8-1.0 | 8.5 | 11.5 | 12 | 366.8* | 50 |
| M8-1.25 | 8.5 | 11.5 | 12 | 366.2 | |
| M10-1.5 | 10.5 | 13.5 | 14 | 366.3 | |
| M10-1.25 | 10.5 | 13.5 | 14 | 366.7 | |

OnDemand*

METRIC HEXAGON NYLON LOCK NUTS



DIN 985

Steel • Class 8.8 • Clear Zinc Plated
 Steel • Class 10.9 • Yellow Zinc Plated
 Stainless Steel A2

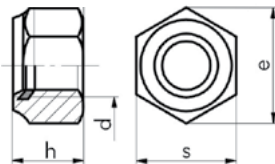
Applications:

High Vibration • Alternative Energy • Engines •
 Bearings • Off Road • Transportation • Mining •
 Heavy Equipment • Construction • Agriculture

| Dia-Thread Pitch (d) | e in mm | h in mm | m1 in mm | s in mm | Steel 8.8 Clear Zinc | P. Qty. | Steel 10.9 Yellow Zinc | P. Qty. | A2 Stainless | P. Qty. |
|----------------------|---------|---------|----------|---------|----------------------|---------|------------------------|---------|---------------|---------|
| M3-0.5 | | | | | 368.3 | 100 | | | | |
| M4-0.7 | 7.66 | 5 | 2.2 | 7 | 368.4 | 100 | | | 391.4 | 100 |
| M5-0.8 | 8.79 | 5 | 2.75 | 8 | 368.5 | 100 | | | 391.5 | 100 |
| M6-1.0 | 11.05 | 6 | 3.3 | 10 | 368.6 | 100 | 370.6 | 100 | 391.6 | 100 |
| M7-1.0 | 12.12 | 7.5 | 3.85 | 11 | 368.7 | 50 | | | | |
| M8-1.25 | 14.38 | 8 | 4.4 | 13 | 368.8 | 100 | 370.8 | 100 | 391.8 | 100 |
| M8-1.0 | 14.38 | 8 | 4.4 | 13 | 368.8..1 | 50 | | | | |
| M10-1.5 | 18.9 | 10 | 5.5 | 17 | 368.10 | 100 | 370.10 | 50 | 391.10 | 50 |
| M10-1.0 | 18.9 | 10 | 5.5 | 17 | 368.10.1 | 50 | | | | |
| M10-1.25 | 18.9 | 10 | 5.5 | 17 | 368.10.125 | 50 | | | | |
| M12-1.75 | 21.21 | 12 | 6.6 | 19 | 368.12 | 50 | 370.12 | 50 | 391.12 | 50 |
| M12-1.25 | 21.1 | 12 | 6.6 | 19 | 368.12.125 | 50 | | | | |
| M12-1.5 | 21.1 | 12 | 6.6 | 19 | 368.12.15 | 50 | | | | |
| M14-2.0 | 24.49 | 14 | 7.7 | 22 | 368.14 | 50 | 370.14 | 50 | | |
| M16-2.0 | 26.75 | 16 | 8.8 | 24 | 368.16 | 25 | 370.16 | 25 | | |
| M18-2.5 | 29.56 | 18.5 | 9.9 | 27 | 368.18 | 25 | 370.18 | 25 | | |
| M20-2.5 | 32.95 | 20 | 11 | 30 | 368.20 | 25 | 370.20 | 25 | | |
| M24-3.0 | | | | | 368.24 | 25 | | | | |

* with smaller width across flats

STANDARD HEX NYLON JAM NUTS



Steel • GR 2 • Clear Zinc Plated

Function:

Typically used as a locking nut, where it is 'jammed' up against a standard nut, locking the two in place. Also used when clearance is an issue, where a standard nut will not fit.

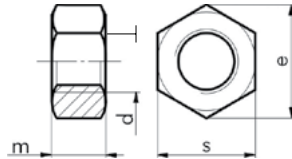
Applications:

High Vibration • Transportation • Heavy Equipment • Alternative Energy • Mining • Agriculture • Off Road • Trucking

| Thread dia. (d) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|---------------|---------|----------------|---------|
| 1/4 | | | 311.14 | 100 |
| 5/16 | | | 311.516 | 100 |
| 3/8 | 312.38 | 100 | 311.38 | 100 |
| 1/2 | | | 311.12 | 100 |
| 5/8 | 312.58 | 50 | | |
| 1 | 312.1 | 10 | | |

| Diameter(d) | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|
| width across flats (s) | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 15/16 | 1-1/16 | 1-1/4 | 1-7/16 |
| width across corners (e) max. | 0.505 | 0.517 | 0.650 | 0.794 | 0.866 | 1.010 | 1.083 | 1.299 | 1.516 | 1.732 |
| Thickness (m) | 7/32 | 17/64 | 21/64 | 3/8 | 7/16 | 31/64 | 35/64 | 41/64 | 3/4 | 55/64 |
| T.P.I. UNF | 28 | 24 | 24 | 20 | 20 | 18 | 18 | 16 | 14 | 12 |
| T.P.I. UNC | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 | 9 | 8 |

STANDARD HEX MACHINE SCREW NUTS



Steel • GR 2 • Clear Zinc Plated

Function:

Designed for use with machine screws in moderate to light loads. Used with bolts for heavier loads.

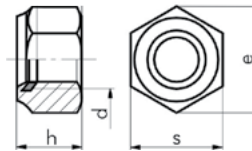
Applications:

- High Vibration • Transportation • Construction
- Heavy Equipment • Alternative Energy
- Mining • Agriculture • Rotary

| Diameter(d) | #4 | #6 | #8 | #10 | #12 | 1/4 |
|-------------------------------|-------|-------|-------|-------|-------|-------|
| width across flats (s) | 1/4 | 5/16 | 11/32 | 3/8 | 7/16 | 7/16 |
| width across corners (e) max. | 0.354 | 0.442 | 0.486 | 0.530 | 0.615 | 0.619 |
| Thickness (m) | 0.092 | 0.108 | 0.124 | 0.124 | 0.155 | 0.186 |
| T.P.I. UNF | 48 | 40 | 36 | 32 | 28 | 28 |
| T.P.I. UNC | 40 | 32 | 32 | 24 | 24 | 20 |

| Thread dia. (d) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|------------------|---------|------------------|---------|
| #4 | | | 329.4..40 | 100 |
| #6 | | | 329.6..32 | |
| #8 | | | 329.8..32 | |
| #10 | 329.10.32 | 100 | 329.10.24 | |
| #12 | | | 329.12.24 | |

STANDARD NYLON INSERT LOCK NUTS



Steel • GR 2 • Clear Zinc Plated
 Steel • GR 8 • Yellow Zinc Plated
 Stainless Steel 18.8
 Stainless Steel 316

Applications:

- High Vibration • Alternative Energy • Engines • Bearings • Off Road • Transportation • Mining • Heavy Equipment • Construction • Agriculture

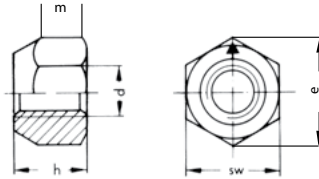
| Thread Dia. (d) | #4 | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 | 1-1/4 | 1-1/2 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|---------|--------|
| width across flats (s) | 1/4 | 5/16 | 11/32 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 15/16 | 1-1/16 | 1-1/4 | 1-7/16 | 1-5/8 | 1-13/16 | 2-3/16 |
| width across corners (e) max. | 0.325 | 0.361 | 0.397 | 0.433 | 0.505 | 0.577 | 0.650 | 0.866 | 0.866 | 1.083 | 1.083 | 1.299 | 1.516 | 1.732 | 1.949 | 2.165 | 2.598 |
| Thickness (m) | 0.146 | 0.178 | 0.229 | 0.239 | 0.313 | 0.344 | 0.453 | 0.453 | 0.594 | 0.641 | 0.750 | 0.875 | 0.984 | 1.047 | 1.188 | 1.375 | 1.625 |
| T.P.I. UNF | 48 | 40 | 36 | 32 | 28 | 24 | 24 | 20 | 20 | 18 | 18 | 16 | 14 | 12 | 12 | 12 | 12 |
| T.P.I. UNC | 40 | 32 | 32 | 24 | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 7 | 6 |

| Thread dia. (d) in inches | Coarse Thread, Grade 5, Clear Zinc | P. Qty. | Grade 8, Yellow Zinc | P. Qty. | 18-8 SS | P. Qty. | 316 SS | P. Qty. |
|---------------------------|------------------------------------|---------|----------------------|---------|-----------------|---------|--------------------|---------|
| #6 | 374.6..32 | 100 | | | 367.0632 | 100 | | |
| #8 | 374.8..32 | 100 | | | 367.0832 | 100 | | |
| #10 | 373.1024 | 100 | | | 367.10 | 50 | 367.316.10 | 50 |
| 1/4 | 373.14 | 100 | 373.014 | 50 | 367.14 | 50 | 367.316.14 | 50 |
| 5/16 | 373.516 | 50 | 373.0516 | 50 | 367.516 | 50 | 367.316.516 | 50 |
| 3/8 | 373.38 | 50 | 373.038 | 50 | 367.38 | 50 | 367.316.38 | 50 |
| 7/16 | 373.716 | 50 | 373.0716 | 25 | 367.716 | 50 | | |
| 1/2 | 373.12 | 25 | 373.012 | 25 | 367.12 | 50 | | |
| 9/16 | 373.916 | 50 | 373.0916 | 25 | | | | |
| 5/8 | 373.58 | 25 | 373.058 | 25 | 367.58 | 50 | | |
| 3/4 | 373.34 | 10 | 373.034 | 25 | 367.34 | 50 | | |
| 7/8 | 373.78 | 10 | 373.078 | 10 | | | | |
| 1 | 373.1 | 10 | 373.01 | 5 | | | | |
| 1-1/4 | 373.114 | 5 | | | | | | |
| 1-1/2 | 373.112 | 5 | | | | | | |

| Thread dia. (d) in inches | Fine Thread, Grade 5, Clear Zinc | P. Qty. | Grade 8, Yellow Zinc | P. Qty. | 18-8 SS | P. Qty. |
|---------------------------|----------------------------------|---------|----------------------|---------|------------------|---------|
| #10 | 374.10.32 | 100 | | | 367.10.32 | 50 |
| 1/4 | 374.14 | 100 | 374.014 | 100 | | |
| 5/16 | 374.516 | 100 | 374.0516 | 100 | | |
| 3/8 | 374.38 | 100 | 374.038 | 50 | | |
| 7/16 | 374.716 | 50 | 374.0716 | 25 | | |
| 1/2 | 374.12 | 50 | 374.012 | 50 | | |

| Thread dia. (d) in inches | Fine Thread, Grade 5, Clear Zinc | P. Qty. | Grade 8, Yellow Zinc | P. Qty. | 18-8 SS | P. Qty. |
|---------------------------|----------------------------------|---------|----------------------|---------|---------|---------|
| 9/16 | 374.916 | 50 | 374.0916 | 20 | | |
| 5/8 | 374.58 | 25 | 374.058 | 25 | | |
| 3/4 | 374.34 | 20 | 374.034 | 25 | | |
| 7/8 | | | 374.078 | 15 | | |
| 1 | | | 374.01 | 10 | | |

METRIC STOVER LOCK NUTS



DIN 980

Steel • Class 8.8 • Clear Zinc Plated
Steel • Class 10.9 • Yellow Zinc Plated
Crimp Nut • Copper Plated

Applications:

Extreme Vibration • Farming Machinery •
Agriculture • Automotive • Metalworking
• Heavy Equipment • Manufacturing

Features:

Can withstand severe vibration
and shock loads • Reusable

| Dia-Thread Pitch (d) | Width across corners mm (e) | (h) in mm | m1 in mm | sw in mm | Steel 10.9, Yellow Zinc | P. Qty. | Crimp Nut Copper plated | P. Qty. |
|----------------------|-----------------------------|-----------|----------|----------|-------------------------|---------|-------------------------|---------|
| M8-1.25 | 14.38 | 8 | 4.4 | 13 | 369.8 | 50 | | |
| M8-1.25* | 14.38 | 8 | 4.4 | 12 | | | 369.8..12 | 50 |
| M10-1.5 | 18.9 | 10 | 5.5 | 17 | 369.010 | 50 | | |
| M10-1.5 | 15.8 | 9 | 7.2 | 14 | | | 369.10.149 | 50 |
| M12-1.75 | 21.21 | 12 | 6.6 | 19 | 369.012 | 25 | | |
| M14-2.0 | 24.49 | 14 | 7.7 | 22 | 369.014 | 25 | | |
| M16-2.0 | 26.75 | 16 | 8.8 | 24 | 369.016 | 20 | | |
| M20-2.5 | 32.95 | 20 | 11 | 30 | 369.020 | 10 | | |

* with smaller width across flats

STANDARD STOVER LOCK NUTS



Steel • GR C • cadmium plated

Features:

Can withstand severe vibration and shock loads • Reusable

Applications:

Extreme Vibration • Farming Machinery • Agriculture • Automotive
• Metalworking • Heavy Equipment • Manufacturing

| Thread dia. in inches | UNF, Cadmium Plated | P. Qty. | UNC, Cadmium Plated | P. Qty. |
|-----------------------|---------------------|---------|---------------------|---------|
| 1/4 | 334.14 | 100 | 335.14 | 100 |
| 5/16 | 334.516 | 50 | 335.516 | 100 |
| 3/8 | 334.38 | 50 | 335.38 | 100 |
| 7/16 | 334.716 | 50 | 335.716 | 50 |
| 1/2 | 334.12 | 50 | 335.12 | 50 |
| 9/16 | 334.916 | 50 | 335.916 | 50 |
| 5/8 | 334.58 | 50 | 335.58 | 50 |
| 3/4 | 334.34 | 25 | 335.34 | 25 |
| 7/8 | 334.78 | 25 | 335.78 | 25 |
| 1 | 334.1 | 10 | 335.1 | 10 |
| 1-1/8 | 334.118 | 5 | 335.118 | 5 |

| Dimension | 9/16 | 3/4 | 7/8 | 1 | 1-1/8 |
|--------------------|-------|-------|--------|-------|-------|
| Width across flats | 7/8 | 1-1/8 | 1-5/16 | 1-1/2 | 1-1/2 |
| Height | 0.496 | 0.655 | 0.776 | 0.887 | 1.035 |
| T.P.I UNC | 12 | 10 | 9 | 8 | 7 |
| T.P.I UNF | 18 | 16 | 14 | 12 | 12 |

STANDARD STOVER FLANGE LOCK NUTS



Steel • GR G • Clear Zinc Plated/wax

Features:

Can withstand severe vibration and shock loads • Reusable

Applications:

Extreme Vibration • Farming Machinery • Agriculture • Automotive
• Metalworking • Heavy Equipment • Manufacturing

| Dimension | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Width across flats (sw) | 7/16 | 1/2 | 9/16 | 11/16 | 3/4 | 15/16 |
| Height (h) | 0.226 | 0.273 | 0.337 | 0.385 | 0.448 | 0.559 |
| T.P.I UNC | 20 | 18 | 16 | 14 | 13 | 11 |
| T.P.I UNF | 28 | 24 | 24 | 20 | 20 | 18 |

| Thread dia. (d) in inches | UNC, Zinc/Wax | P. Qty. |
|---------------------------|----------------|---------|
| 1/4 | 318.14 | 25 |
| 5/16 | 318.516 | 25 |
| 3/8 | 318.38 | 50 |
| 7/16 | 318.716 | 25 |

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

METRIC SERRATED FLANGE HEX NUTS



Similar to DIN 6923

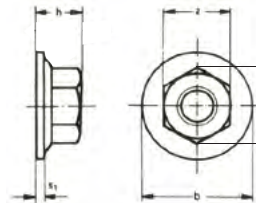
Steel • Class 10.9 • Yellow Zinc Plated
Steel • Class 10.9 • Clear Zinc Plated

Applications:

High Vibration • Transportation • Mining • Heavy Equipment • Agriculture • Bushings • Bearings • Off Road • Alternative Energy

| Dia-Thread Pitch (d) | s in mm | d1 in mm | m in mm | e in mm | Steel 10.9, Yellow Zinc | P. Qty. | Steel 10.9, Clear Zinc | P. Qty. |
|----------------------|---------|----------|---------|---------|-------------------------|---------|------------------------|---------|
| M6-1.0 | 10 | 14.2 | 6 | 11.05 | 315.6 | 100 | 315.61 | 100 |
| M8-1.25 | 12 | 17.9 | 8 | 14.38 | 315.8 | 100 | 315.81 | 100 |
| M10-1.25 | 14 | 21.8 | 10 | 16.64 | 315.10 | 100 | 315.10.1 | 100 |
| | | | | | 315.10.BK | 500 | | |
| M12-1.25 | 17 | 26 | 12 | 20.03 | 315.12 | 50 | | |

STANDARD SERRATED HEX FLANGE NUTS



Steel • GR 2 • Clear Zinc Plated
Case hardened
Serrated base

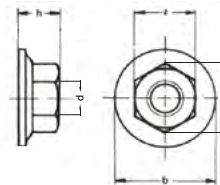
Applications:

High Vibration • Transportation • Mining • Heavy Equipment • Agriculture • Bushings • Bearings • Off Road • Alternative Energy

| Thread Dia. (d) | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Width across flats (s) | 7/16 | 1/2 | 9/16 | 11/16 | 3/4 | 15/16 | 1-1/8 |
| Width across corners (e) max. | 0.505 | 0.517 | 0.650 | 0.794 | 0.866 | 1.083 | 1.299 |
| Thickness (m) | 0.594 | 0.680 | 0.810 | 0.937 | 1.070 | 1.330 | 1.585 |
| No. of threads | 0.14 | 0.17 | 0.23 | 0.26 | 0.31 | 0.40 | 0.46 |
| T.P.I. UNF | 0.300 | 0.365 | 0.425 | 0.495 | 0.555 | 0.690 | 0.825 |
| T.P.I. UNC | 20 | 18 | 16 | 14 | 13 | 11 | 10 |

| Thread dia. (d) in inches | Art. No. | P. Qty. |
|---------------------------|----------------|---------|
| 1/4 | 322.14 | 100 |
| 5/16 | 322.516 | |
| 3/8 | 322.38 | |
| 7/16 | 322.716 | |
| 1/2 | 322.12 | |
| 5/8 | 322.58 | 50 |
| 3/4 | 322.34 | 25 |

STANDARD HEX FLANGE LOCK NUTS



Steel • GR G • Black phosphate and oil finish

Applications:

High Vibration • Transportation • Mining • Heavy Equipment • Agriculture • Bushings • Bearings • Off Road • Alternative Energy

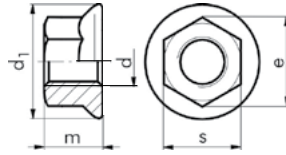
Function:

For use with Prefix 064 and 065 Frame Bolts.

| Thread dia. (d) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|---------------------|---------|---------------|---------|
| 1/2 | 321.12 | 50 | 319.12 | 25 |
| 5/8 | 321.58 | | 319.58 | 50 |
| 3/4 | 321.34 *NEW* | | - | |

| Diameter (d) | 1/2 | 5/8 | 3/4 |
|------------------------|-------|-------|-------|
| Width across flats (s) | 3/4 | 15/16 | 1.1" |
| Flange Diameter (b) | 1.070 | 1.330 | 1.538 |
| Thickness (h) | 0.555 | 0.690 | 0.755 |
| T.P.I. UNF | 20 | 18 | 16 |
| T.P.I. UNC | 13 | 11 | - |

METRIC FLANGE HEX NUTS



Similar to DIN 6923

Steel • Class 10.9 • Yellow Zinc Plated

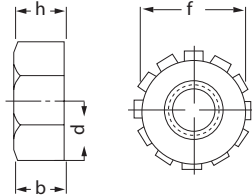
*Clear Zinc Plated

Applications:

Transportation • Mining • Heavy Equipment • Agriculture
• Bushings • Bearings • Off Road • Alternative Energy

| Dia-Thread Pitch (d) | s in mm | d1 in mm | m in mm | e in mm | Art. No. | P. Qty. |
|----------------------|---------|----------|---------|---------|------------|---------|
| M5-0.8 | 8 | 11.8 | 5 | 8.79 | 315.5* | 100 |
| M10-1.5 | 15 | 21.8 | 10 | 16.64 | 315.10.150 | |
| M12-1.75 | 18 | 26 | 12 | 20.03 | 315.12.175 | |
| M16-2 | 24 | 34.5 | 16 | 26.75 | 315.16.200 | 50 |

STANDARD KEPS LOCK NUTS



With serrated lock washer

Steel • GR 2 • Clear Zinc Plated

Applications:

High Vibration • Transportation • Automotive • Heavy Equipment
• Alternative Energy • Mining • Agriculture • Rotary

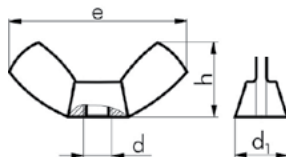
Features:

Reusable one-piece solution • Suitable for long thread assemblies • Will not gall mating threads • Serrated lock washer grips mating surface and locks once tightened

| Diameter (d) | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 |
|-----------------------|------|-------|------|-------|-------|------|
| Width (f) | 5/16 | 11/32 | 3/8 | 7/16 | 1/2 | 9/16 |
| Overall Thickness (b) | 9/64 | 5/32 | 5/32 | 15/64 | 11/32 | |
| Nut Thickness (h) | 7/64 | 1/8 | 1/8 | 3/16 | 9/32 | |
| T.P.I. UNF | 40 | 36 | 32 | 28 | 24 | 24 |
| T.P.I. UNC | 32 | 32 | 24 | 20 | 18 | 16 |

| Thread dia. (d) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|-----------|---------|-----------|---------|
| #6 | | | 328.6..32 | 100 |
| #8 | | | 328.8..32 | |
| #10 | 328.10.32 | 100 | 327.10.24 | |
| 1/4 | 328.14 | 100 | 327.14 | |
| 5/16 | | | 327.516 | |
| 3/8 | | | 327.38 | |

STANDARD WING NUTS



Steel • GR 2 • Clear Zinc Plated

Stainless Steel 18.8

Applications:

Transportation • Automotive • Heavy Equipment •
Alternative Energy • Mining • Agriculture • Rotary

Function:

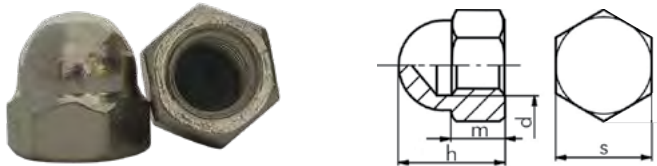
Used in low torque applications that require frequent adjustment and/or disassembly • Tightening/Loosening can be done manually

| Diameter (d) | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 | 1/2 |
|--------------|-------|-------|-------|--------|-------|-------|-------|
| Wings (e) | 27/32 | 27/32 | 27/32 | 1-1/16 | 13/16 | 1-3/8 | 1-7/8 |
| Height (h) | 13/32 | 13/32 | 13/32 | 1/2 | 19/32 | 11/16 | 15/16 |
| (d1) max. | 0.33 | 0.43 | 0.45 | 0.50 | 0.58 | 0.70 | 0.93 |
| T.P.I. UNF | 40 | 36 | 32 | 28 | 24 | 24 | 20 |
| T.P.I. UNC | 32 | 32 | 24 | 20 | 18 | 16 | 13 |

| Thread dia. (d) in inches | UNC, Clear Zinc | P. Qty. | UNF, 18-8 SS | P. Qty. | UNC, 18-8 SS | P. Qty. |
|---------------------------|-----------------|---------|--------------|---------|--------------|---------|
| #6 | | | | | 344.632 | 100 |
| #8 | | | | | 344.832 | |
| #10 | | | | | 344.1024 | |
| 1/4 | 343.14 | 50 | | | 344.14 | |
| 5/16 | 343.516 | 50 | | | 344.516 | |
| 3/8 | 343.38 | 50 | | | 344.38 | |
| 1/2 | | | | | 344.12 | 50 |

STANDARD ACORN NUTS (CAP NUTS)

Stainless Steel 18.8



Applications:

Transportation • Automotive • Heavy Equipment • Alternative Energy • Mining • Agriculture • Rotary

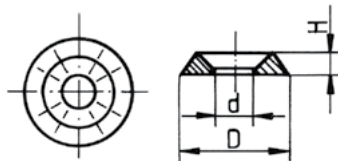
Features:

Used alone or as a cap for a hex/jam nut • Conceal threaded fastener ends with decorative finish • Protection for protruding or sharp threads • Can be used to drive small hanger bolts

| Diameter (d) | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 | 1/2 |
|------------------------|------|------|-------|------|-------|-------|-------|
| Height (h) | 1/4 | 9/32 | 11/32 | 3/8 | 7/16 | 1/2 | 9/16 |
| Width Across Flats (s) | 1/4 | 5/16 | 3/8 | 7/16 | 9/16 | 5/8 | 3/4 |
| Nut Height (m) | 9/94 | 5/32 | 11/64 | 1/4 | 17/64 | 19/64 | 23/64 |
| T.P.I. UNC | 32 | 32 | 24 | 20 | 18 | 16 | 13 |
| T.P.I. UNF | | | 32 | | | | |

| Thread dia. (d) in inches | UNF | P. Qty. | UNC | P. Qty. |
|---------------------------|-----------------|---------|-----------------|---------|
| #6 | | | 345.632 | 100 |
| #8 | | | 345.832 | |
| #10 | 345.1032 | 100 | 345.1024 | |
| 1/4 | | | 345.14 | |
| 5/16 | | | 345.516 | |
| 3/8 | | | 345.38 | |

METRIC COUNTERSUNK WASHERS



DIN 17670

Brass • Black Burnished
Plastic

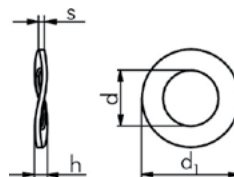
Applications:

Countersunk or cup washers are used as an underlay for the various countersunk screws. They can be used as washers, as centering devices, and especially to compensate the pressure in the parts to be fastened, in particular in soft materials such as wood, plastic, leather, etc.

| d mm | D mm | H mm | Brass, black burnished | P. Qty. | Plastic | P. Qty. |
|------|------|------|------------------------|---------|------------------|---------|
| M4 | 12.0 | 3.0 | | | 458.0124* | 100 |
| M4.8 | 12.7 | 2.7 | 458.4125 | 50 | | |
| M6 | 13.0 | 3.0 | 458.4136 | 50 | | |

* Plastic countersunk washer for BMW

METRIC SPRING WASHERS



DIN 137B

Steel • Clear Zinc Plated

Function:

Spring washers are classes of spring action retaining elements that act via axial spring force.

| Screw Size | d in mm | d1 in mm | s in mm | h in mm | Art. No. | P. Qty. |
|------------|---------|----------|---------|---------|---------------|---------|
| M5 | 5.3 | 11 | 0.5 | 2.2 | 435.5 | 100 |
| M6 | 6.4 | 12 | 0.5 | 2.6 | 435.6 | |
| M7 | 7.4 | 14 | 0.8 | 3.0 | 435.7 | |
| M8 | 8.4 | 15 | 0.8 | 3.0 | 435.8 | |
| M10 | 10.5 | 21 | 1.0 | 4.2 | 435.10 | |
| M12 | 13.0 | 24 | 1.2 | 5.0 | 435.12 | |

ASSORTMENTS



Art. No. 964.411

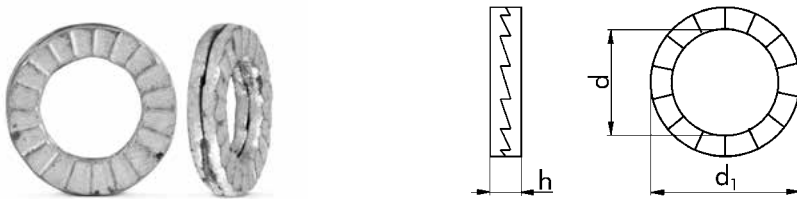
Metric Fender Washer Assortment

Steel, Zinc-Plated

Contents (1400 Pieces):

16 assorted sizes, size range M4-M12

NORD-LOCK® LOCK WASHERS



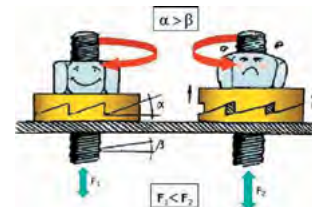
Lock washer according to DIN 25201

Steel • Yellow Zinc Plated (A2C)

Prevents loosening of screw connections subject to lateral, vibrating loads.

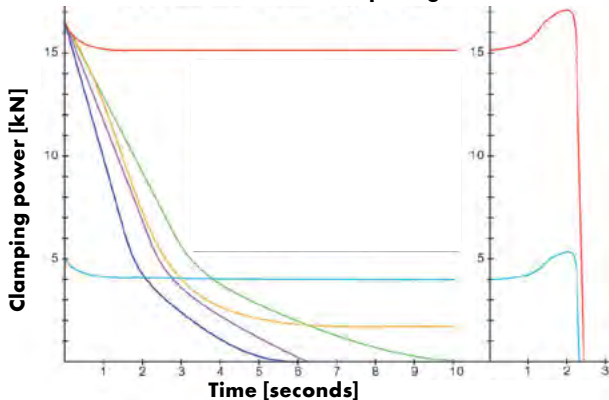
Function:

Strong wedge locking effect through the rise of the cams between the two washers. The screw connection is secured by tension rather than friction.



| Bolt or Screw size | I.D. (d) mm | O.D. (d1) mm | Thickness (h) mm | Art. No. | P. Qty. |
|--------------------|-------------|--------------|------------------|------------|---------|
| M5 | 5.4 | 9 | 1.8 | 401.700205 | 100 |
| M6 | 6.5 | 10.8 | 1.8 | 401.700206 | |
| M8 | 8.7 | 13.5 | 2.5 | 401.700208 | |
| M10 | 10.7 | 16.6 | 2.5 | 401.700210 | |
| M12 | 13 | 19.5 | 2.5 | 401.700212 | 50 |
| M14 | 15.2 | 23 | 3.4 | 401.700214 | |
| M16 | 17 | 25.4 | 3.4 | 401.700216 | |
| M18 | 19.5 | 29 | 3.4 | 401.700218 | |
| M20 | 21.4 | 30.7 | 3.4 | 401.700220 | |

Vibration Test Screw with clamp. length of 25 mm



- █ Standard nut M8 with Nord-Lock® at 70% of apparent yield point
- █ Standard nut M8 on screw with clamping length of 50 mm
- █ Nut with plastic insert (DIN 985)
- █ Lock washer
- █ Standard nut M8
- █ Standard nut M8 with Nord-Lock® at 25% of apparent yield point

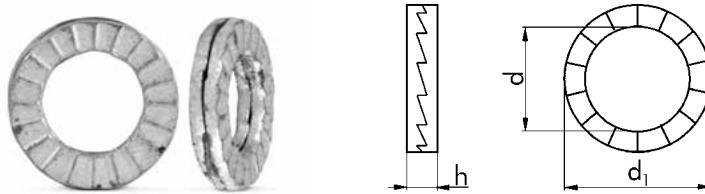
Advantages:

- Maximum security when locking screw connections.
- No loosening under vibration and dynamic loads.
- Simple assembly and disassembly.
- No impairment by lubricants.
- Assures locking function at high or low pre-stressing forces.
- Temperature range for use identical to that of the screw.
- Gentle on surface finish.
- Re-usable.

Areas of application

Automobile industry, machine building, manufacturers of compressed air and electric power tools, mining, agricultural machinery, mixing plants, transport and conveying systems.

METRIC NORD LOCK WASHER



| Screw Size | (d) in mm | (d1) in mm | (h) in mm | Art. No. | P. Qty. |
|------------|-----------|------------|-----------|------------|---------|
| M4 | 4.4 | 9 | 1.7 | 401.770004 | 100 |
| M5 | 5.4 | 10.8 | 1.7 | 401.770005 | |
| M6 | 6.5 | 13.5 | 2.7 | 401.770006 | |
| M8 | 8.6 | 16.6 | 2.7 | 401.770008 | |
| M10 | 10.7 | 21.0 | 2.7 | 401.770010 | |
| M12 | 13 | 25.4 | 2.7 | 401.770012 | 50 |
| M14 | 15.2 | 30.7 | 2.7 | 401.770014 | 100 |
| M16 | 17 | 30.7 | 2.7 | 401.770016 | 50 |
| M18 | 19.5 | 34.5 | 2.7 | 401.770018 | 100 |
| M20 | 21.4 | 39 | 2.7 | 401.770020 | 50 |
| M24 | 25.3 | 48.5 | 3.7 | 401.770024 | 50 |

Applications:

Vehicle manufacturing, mechanical engineering, manufacturers of pneumatic and electric tools, mining, agricultural machine manufacturing, manufacturers of mixing systems, transport and conveying systems.

Type BF with enlarged contact surface.

Lock washer according to DIN 25201 against unscrewing of laterally loaded, vibrating screw connections subject to oscillations.

Delta Protect (DPG)

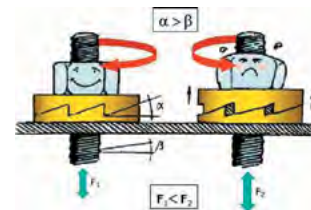
(Delta Protect - a high performance double-layer zinc-based anti-corrosion coating. No hydrogen embrittlement occurs with this coating).

Corrosion resistance:

720 H base metal corrosion pursuant to DIN EN ISO 9227-NSS (DIN 50021-SS) - in comparison: 96 hr. Yellow Zinc Plated (A2C).

Function:

- High locking effect due to the ascent of the wedge surfaces between the two lock washers.
- The screw connection is locked by pretension and friction.



Advantages:

- Maximum safety when locking screw connections.
- Maximum locking effect against unscrewing during vibration loading and dynamic loads.
- Simple assembly and dismantling.
- No impairment by lubricant.
- Ensures locking function with high and low pretension forces.
- Same temperature range as screw.
- Protects surfaces.
- Reusable.

STANDARD FINISHING CUP WASHERS



Nickel plated
Stainless Steel 18.8

Function:

Designed for use with flat and/or oval head screws, providing a large bearing surface as well as a finished countersunk appearance.

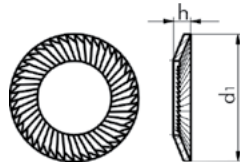
| Screw Size | O.D. (d) | Thickness (h) | Nickel plated | P. Qty. | 18-8 SS | P. Qty. |
|------------|----------|---------------|---------------|---------|---------|---------|
| #6 | 7/16 | 0.165 | 453.6 | 100 | | 100 |
| #8 | 1/2 | 0.193 | 453.8 | | 453.08 | |
| #10 | 19/32 | 0.228 | 453.10 | | 453.010 | |
| #12 | 11/16 | 0.291 | | | 453.012 | |

SCHNORR LOCK WASHERS 'S'

Steel • Clear Zinc Plated

Features:

- The shape of the spring washers produces optimum friction locking combined with maximum positive locking.
- The lock washer is designed so that it can also be used with Countersunk and Allen heads, as well as with Cheese heads.

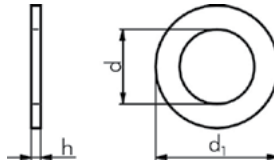


| Bolt or Screw size | O.D. (d1) mm | Height (h) mm | Art. No. | P. Qty. |
|--------------------|--------------|---------------|----------------|---------|
| M6 | 10 | 1.2 | 493.06 | 200 |
| M8 | 13 | 1.4 | 493.08 | |
| M10 | 16 | 1.6 | 493.010 | 100 |
| M12 | 18 | 1.7 | 493.012 | |
| M14 | 22 | 2 | 493.014 | |
| M16 | 24 | 2.1 | 493.016 | |
| M20 | 30 | 2.4 | 493.020 | |

METRIC WASHERS

DIN 125

Steel • Clear Zinc Plated
 Steel • Yellow Zinc Plated
 Hardened • Clear Zinc Plated
 Stainless Steel A2

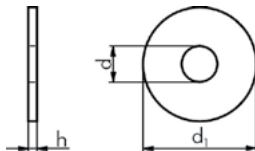


| Screw Size | d in mm | d1 in mm | Thickness h in mm | Steel, Clear Zinc | P. Qty. | Steel, Yellow Zinc | P. Qty. | A2 Stainless | P. Qty. | Hardened, Yellow Zinc | P. Qty. |
|------------|---------|----------|-------------------|-------------------|---------|--------------------|---------|---------------|---------|-----------------------|---------|
| M3 | 3.2 | 7 | 0.5 | 407.3 | 200 | | | | | | |
| M4 | 4.3 | 9 | 0.8 | 407.4 | 200 | | | 406.4 | 100 | | |
| M5 | 5.3 | 10 | 1.0 | 407.5 | 200 | | | 406.5 | 100 | | |
| M6 | 6.4 | 12 | 1.6 | 407.6 | 200 | 407.06 | 100 | 406.6 | 100 | 402.6 | 100 |
| M7 | 7.4 | 14 | 1.6 | 407.7 | 200 | | | | | | |
| M8 | 8.4 | 16 | 1.6 | 407.8 | 200 | 407.08 | 100 | 406.8 | 100 | 402.8 | 100 |
| M10 | 10.5 | 20 | 2.0 | 407.10 | 100 | 407.010 | 100 | 406.10 | 100 | 402.10 | 50 |
| M12 | 13.0 | 24 | 2.5 | 407.12 | 100 | | | 406.12 | 50 | 402.12 | 50 |
| M14 | 15.0 | 28 | 2.5 | 407.14 | 50 | | | 406.14 | 50 | 402.14 | 50 |
| M16 | 17.0 | 30 | 3.0 | 407.16 | 50 | | | | | 402.16 | 25 |
| M18 | 19.0 | 34 | 3.0 | 407.18 | 50 | | | | | 402.18 | 25 |
| M20 | 21.0 | 37 | 3.0 | 407.20 | 50 | | | | | 402.20 | 10 |
| M24 | 25.0 | 44 | 4.0 | 407.24 | 50 | | | | | | |

METRIC WASHERS

DIN 9021

With large outside diameter
 Steel • Clear Zinc Plated



| Screw Size | d in mm | d1 in mm | h in mm | Art. No. | P. Qty. |
|------------|---------|----------|---------|--------------|---------|
| M4 | 4.3 | 12 | 1.00 | 416.4 | 100 |
| M5 | 5.3 | 15 | 1.20 | 416.5 | |
| M6 | 6.4 | 18 | 1.60 | 416.6 | |
| M8 | 8.4 | 24 | 2.00 | 416.8 | |

| Screw Size | d in mm | d1 in mm | h in mm | Art. No. | P. Qty. |
|------------|---------|----------|---------|---------------|---------|
| M10 | 10.5 | 30 | 2.50 | 416.10 | 100 |
| M12 | 13 | 37 | 3.00 | 416.12 | |
| M16 | 17 | 50 | 3.00 | 416.16 | 50 |
| M20 | 22 | 60 | 4.00 | 416.20 | |

STANDARD USS WASHERS



Steel • GR 5 • Bare
 Steel • GR 5 • Clear Zinc Plated
 F436 • High Alloy • Yellow Zinc Plated

| Bolt or Screw size | O.D. (d1) | Thickness (h) | Bare | P. Qty. | Clear zinc | P. Qty. | Yellow zinc | P. Qty. |
|--------------------|-----------|---------------|----------------|---------|----------------|---------|-----------------|---------|
| #10 | 9/16 | 3/64 | | 100 | 408.10 | | | |
| 1/4 | 3/4 | 1/16 | | 100 | 408.14 | | 410.014 | 100 |
| 5/16 | 7/8 | 5/64 | | 100 | 408.516 | | 410.0516 | 100 |
| 3/8 | 1 | 5/64 | | 100 | 408.38 | | 410.038 | 100 |
| 7/16 | 1-1/4 | 3/32 | | 100 | 408.716 | | 410.0716 | 50 |
| 7/16 | 1-1/4 | 3/32 | | 1000 | | | | |
| 1/2 | 1-3/8 | 7/64 | | 100 | 408.12 | | 410.012 | 50 |
| 9/16 | 1-1/2 | 7/64 | | 100 | 408.916 | | 410.0916 | 25 |
| 5/8 | 1-3/4 | 9/64 | | 50 | 408.58 | | 410.058 | 25 |
| 3/4 | 2 | 9/64 | | 50 | 408.34 | | 410.034 | 25 |
| 7/8 | 2-1/4 | 5/32 | | 50 | 408.78 | | 410.078 | 10 |
| 1 | 2-1/2 | 5/32 | | 50 | 408.1 | | 410.01 | 10 |
| 1-1/8 | 2-3/4 | 5/32 | 408.118 | | | 25 | | |
| 1-1/4 | 2-3/4 | 5/32 | 408.114 | | | 25 | | |
| 1-1/2 | 3-1/4 | 11/64 | 408.112 | | | 25 | | |

STANDARD USS/SAE WASHERS EXTRA THICK

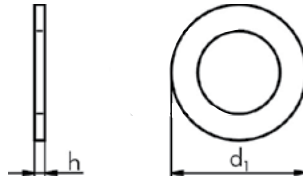


High Alloy Steel •
 Yellow Zinc Plated

| Bolt or Screw size | (d1) | (h) | USS | SAE | P. Qty. |
|--------------------|--------|------|--------------------|---------------------|---------|
| 1/4 | 5/8 | 3/32 | | 420.14.58 | 50 |
| 1/4 | 3/4 | 3/32 | 420.14.34 | | |
| 5/16 | 11/16 | 3/32 | | 420.516.1116 | |
| 5/16 | 7/8 | 3/32 | 420.516.78 | | |
| 3/8 | 13/16 | 1/8 | | 420.38.1316 | |
| 3/8 | 1 | 1/8 | 420.38.1 | | |
| 7/16 | 15/16 | 1/8 | | 420.716.1516 | 25 |
| 7/16 | 1-1/4 | 1/8 | 420.716.114 | | |
| 1/2 | 1-1/16 | 3/16 | | 420.12.1116 | |
| 1/2 | 1-3/8 | 3/16 | 420.12.138 | | |

| Bolt or Screw size | (d1) | (h) | USS | SAE | P. Qty. |
|--------------------|--------|------|--------------------|---------------------|---------|
| 9/16 | 1-3/16 | 3/16 | | 420.916.1316 | 25 |
| 9/16 | 1-1/2 | 3/16 | 420.916.112 | | |
| 5/8 | 1-5/16 | 3/16 | | 420.58.1516 | |
| 5/8 | 1-3/4 | 3/16 | 420.58.134 | | |
| 3/4 | 1-1/2 | 3/16 | | 420.34.112 | 20 |
| 3/4 | 2 | 3/16 | 420.34.2 | | |
| 7/8 | 1-3/4 | 1/4 | | 420.78.134 | |
| 7/8 | 2-1/4 | 1/4 | 420.78.214 | | |
| 1 | 2 | 1/4 | | 420.1..2 | |
| 1 | 2-1/2 | 1/4 | 420.1..212 | | |

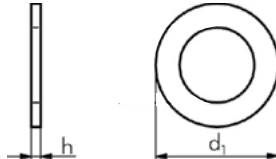
STANDARD SAE WASHERS



Steel • GR 5 • Clear Zinc Plated
 F436 • GR 8 • Yellow Zinc Plated
 F436 • GR 8 • Yellow Zinc Plated • Extra Thick
 Steel • GR L9-Spec • Yellow Zinc Plated
 Stainless Steel 18.8
 Stainless Steel 316

| Bolt or Screw size | O.D. (d1) | Thickness (h) | Grade 5, Clear Zinc | P. Qty. | F436 Grade 8, Yellow Zinc | P. Qty. | L9-Spec, Yellow Zinc | P. Qty. | 18-8 SS | P. Qty. | Type 'B' 316 SS | P. Qty. | Type 'A' 316 SS | P. Qty. |
|--------------------|-----------|---------------|---------------------|---------|---------------------------|---------|----------------------|---------|----------------|---------|--------------------|---------|-----------------|---------|
| #6 | 3/8 | 1/32 | | | | | | | 426.6 | 100 | | | | |
| #8 | 3/8 | 1/32 | | | | | | | 426.8 | 100 | | | | |
| #10 | 1/2 | 1/16 | 409.10 | 100 | | | | | 426.10 | 100 | 426.316.10 | 100 | | |
| #12 | 9/16 | 1/16 | | | | | | | 426.12 | 100 | 426.316.12 | 100 | | |
| 1/4 | 5/8 | 1/16 | 409.14 | 100 | | | 404.14 | 100 | 426.14 | 100 | 426.316.14 | 100 | 428.14 | 100 |
| 5/16 | 11/16 | 1/16 | 409.516 | 100 | | | 404.516 | 100 | 426.516 | 100 | 426.316.516 | 100 | 428.516 | 50 |
| 3/8 | 13/16 | 1/16 | 409.38 | 100 | | | 404.38 | 100 | 426.38 | 100 | 426.316.38 | 100 | 428.38 | 50 |
| 7/16 | 59/64 | 1/16 | 409.716 | 100 | | | 404.716 | 50 | 426.716 | 100 | 426.316.716 | 100 | | |
| 1/2 | 1-1/2 | 1/16 | 409.12 | 100 | | | 404.12 | 50 | 426.012 | 50 | 426.316.012 | 50 | 428.12 | 25 |
| 9/16 | 1-3/16 | 3/32 | 409.916 | 100 | | | 404.916 | 50 | | | 426.316.58 | 50 | | |
| 9/16 | 1-3/16 | 3/16 | | | 410.9160 | 50 | | | | | | | | |
| 5/8 | 1-5/16 | 3/32 | 409.58 | 50 | | | 404.58 | 50 | 426.58 | 50 | | | | |
| 5/8 | 1-5/16 | 13/64 | | | 410.580 | 50 | | | | | | | | |
| 3/4 | 1-1/2 | 1/8 | 409.34 | 50 | | | 404.34 | 25 | 426.34 | 25 | 426.316.34 | 25 | | |
| 7/8 | 1-3/4 | 1/8 | 409.78 | 40 | | | 404.78 | 30 | | | | | | |
| 1 | 2 | 1/8 | 409.1 | 25 | | | 404.1 | 25 | | | | | | |
| 1-1/8 | 2-1/4 | 1/8 | | | 410.118 | 10 | | | | | | | | |
| 1-1/4 | 2-1/2 | 5/32 | | | 410.114 | 10 | | | | | | | | |
| 1-1/2 | 3 | 5/32 | | | 410.112 | 10 | | | | | | | | |

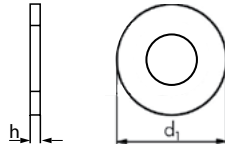
STANDARD SAE WASHERS – F436



F436 • GR8 • Yellow Zinc Plated

| Bolt or Screw Size | O.D. (d1) | Thickness (h) | Art. No. | P. Qty |
|--------------------|-----------|---------------|----------------|--------|
| 1/4 | 0.625 | 0.075" | 422.14 | 100 |
| 5/16 | 0.688 | | 422.516 | |
| 3/8 | 0.813 | | 422.38 | |
| 7/16 | 0.922 | 0.100" | 422.716 | 50 |
| 1/2 | 1.063 | | 422.12 | |
| 9/16 | 1.188 | | 422.916 | |
| 5/8 | 1.313 | 0.130" | 422.58 | 25 |
| 3/4 | 1.468 | | 422.34 | |
| 7/8 | 1.75 | | 422.78 | |
| 1 | 2 | 0.150" | 422.1 | 10 |
| 1-1/8 | 2-1/4 | | 410.118 | |
| 1-1/4 | 2-1/2 | | 410.114 | |
| 1-1/2 | 3 | | 410.112 | |

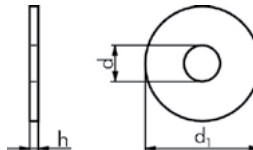
STANDARD MACHINE SCREW WASHERS



SAE • Clear Zinc Plated

| Screw Size | O.D. (d1) | Thickness (h) | Art. No. | P. Qty. |
|------------|-----------|---------------|---------------|---------|
| #6 | 0.375 | 0.049 | 403.6 | 100 |
| #8 | 0.438 | 0.049 | 403.8 | |
| #10 | 0.500 | 0.049 | 403.10 | |
| #12 | 0.562 | 0.065 | 403.12 | |

METRIC FENDER WASHERS



Large outside diameter
Steel • Clear Zinc Plated
Stainless Steel 18.8

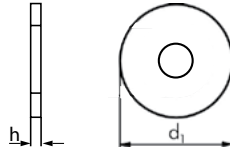
| Screw Size | d1 in mm | d in mm | h in mm | DIN 522 Steel, Clear Zinc | P. Qty. | DIN 9021 18.8 Stainless | P. Qty. |
|------------|----------|---------|---------|---------------------------|---------|-------------------------|---------|
| M4 | 12 | 4.3 | 1.25 | 411.4..12 | 100 | | |
| | 20 | 4.3 | 1.25 | 411.4..20 | 100 | | |
| M5 | 15 | 5.3 | 1.25 | 411.5..15 | 100 | | |
| | 20 | 5.3 | 1.46 | 411.5..20 | 100 | 415.5..15 | 100 |
| M6 | 15 | 6.4 | 1.50 | 411.6..15 | 100 | | |
| | 18 | 6.4 | 1.50 | 411.6..18 | 100 | | |
| | 20 | 6.5 | 1.25 | 411.6..20 | 100 | | |
| | 25 | 6.5 | 1.25 | 411.6..25 | 100 | | |
| M7 | 30 | 6.5 | 1.25 | 411.6..30 | 50 | | |
| | 20 | 7.5 | 1.25 | 411.7..20 | 100 | | |
| M8 | 20 | 8.5 | 1.25 | 411.8..20 | 100 | | |
| | 24 | 8.4 | 2 | | | 415.8..24 | 50 |
| | 25 | 8.5 | 1.25 | 411.8..24 | 100 | | |
| | 25 | 8.5 | 1.50 | 411.8..25 | 100 | | |
| M10 | 30 | 8.5 | 1.5 | 411.8..30 | 100 | | |
| | 20 | 10.5 | 1.50 | 411.10.20 | 100 | | |
| | 25 | 10.5 | 1.50 | 411.10.25 | 100 | | |
| | 30 | 10.5 | 1.50 | 411.10.30 | 50 | | |
| M12 | 30 | 10.5 | 2.5 | | | 415.10.30 | 25 |
| | 40 | 10.2 | 2.00 | 411.10.40 | 50 | | |
| | 32 | 13.0 | 1.5 | 411.12.30 | 50 | | |



Metric Fender Washer Assortment
Art. No. 964.411

Contents: 1400 pieces
6 assorted sizes
Size range: M4-M12.

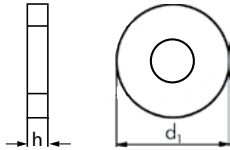
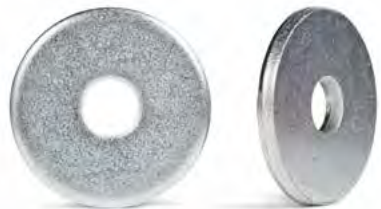
STANDARD FENDER WASHERS



Steel • GR 5 • Clear Zinc Plated
Stainless steel 18.8
Stainless steel 316

| Bolt or Screw size | O.D. (d1) | Thickness (h) | Grade 5, Clear Zinc | P. Qty. | 18-8 S | P. Qty. | 316 S | P. Qty. |
|--------------------|-----------|---------------|---------------------|---------|--------------------|---------|---------------------|---------|
| #10 | 1 | 3/64 | 412.316.1 | 100 | 413.10.1 | 100 | | |
| 1/4 | 1 | 1/16 | | | | | 413.014.1 | 50 |
| 1/4 | 1-1/4 | 3/64 | 412.14.114 | 100 | 413.14.114 | 50 | | |
| 1/4 | 1-1/2 | 3/64 | 412.14.112 | 100 | | | | |
| 5/16 | 1-1/4 | 3/64 | 412.516.114 | 100 | | | 413.0516.114 | 50 |
| 5/16 | 1-1/2 | 3/64 | 412.516.112 | 100 | 413.516.112 | 50 | | |
| 3/8 | 1-1/2 | 3/64 | 412.38.112 | 50 | 413.38.112 | 25 | 413.038.112 | 50 |
| 1/2 | 2 | 1/16 | 412.12.2 | 50 | | | | |

STANDARD FENDER WASHERS EXTRA THICK



Steel • GR 5 • Clear Zinc Plated

| Bolt or Screw size | O.D. (d1) | Thickness (h) | Art. No. | P. Qty. |
|--------------------|-----------|---------------|--------------------|---------|
| 1/4 | 1 | 1/8 | 414.14.1 | 50 |
| 1/4 | 1-1/2 | 1/8 | 414.14.112 | |
| 5/16 | 1-1/4 | 1/8 | 414.516.114 | |
| 5/16 | 1-3/4 | 1/8 | 414.516.134 | |
| 3/8 | 1-1/4 | 1/8 | 414.38.114 | |
| 3/8 | 1-3/4 | 1/8 | 414.38.134 | |
| 1/2 | 2 | 1/8 | 414.12.2 | |

GRADE 5 ZINC FENDER WASHER ASSORTMENT



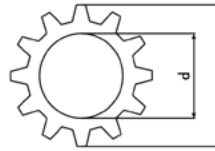
Art. No. 965.412225 - 225 pcs.

| Art. No. | Description | Qty. |
|--------------------|--|------|
| 412.12.2 | FENDER WASHER, GRADE 5 ZINC - 1/2" x 2" x 1/16" | 25 |
| 412.14.112 | FENDER WASHER, GRADE 5 ZINC - 1/4" x 1-1/2" x 3/64" | |
| 412.14.114 | FENDER WASHER, GRADE 5 ZINC - 1/4" x 1-1/4" x 3/64" | |
| 412.38.112 | FENDER WASHER, GRADE 5 ZINC - 3/8" x 1-1/2" x 3/64" | |
| 412.516.112 | FENDER WASHER, GRADE 5 ZINC - 5/16" x 1-1/2" x 3/64" | |
| 412.516.114 | FENDER WASHER, GRADE 5 ZINC - 5/16" x 1-1/4" x 3/64" | |
| 414.12.2 | FENDER WASHER, X-THICK, GRADE 5 ZINC - 1/2" x 2" x 1/8" | |
| 414.14.112 | FENDER WASHER, X-THICK, GRADE 5 ZINC - 1/4" x 1-1/2" x 1/8" | |
| 414.516.134 | FENDER WASHER, X-THICK, GRADE 5 ZINC - 5/16" x 1-3/4" x 1/8" | |

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

METRIC SERRATED LOCK WASHERS



DIN 6798, with external teeth

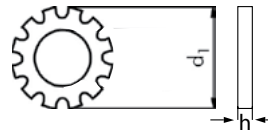
Steel • Clear Zinc Plated

Function:

Serrated lock washers are almost positive-fitting securing elements that lock with the surface of the components when the screw or nut is tightened.

| Screw Size | d in mm | d1 in mm | Art. No. | P. Qty. |
|------------|---------|----------|---------------|---------|
| M5 | 5.3 | 10 | 429.5 | 100 |
| M6 | 6.4 | 11 | 429.6 | |
| M8 | 8.2 | 22 | 429.8 | |
| M12 | 13 | 20.5 | 429.12 | 50 |

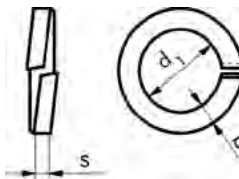
STANDARD TOOTH LOCK WASHERS



Clear Zinc Plated
Stainless Steel 410

| External Tooth | | | | | | Internal Tooth | | | | | | | |
|--------------------|-----------|---------------|----------------|---------|----------------|----------------|--------------------|-----------|---------------|----------------|---------|----------------|---------|
| Bolt or Screw size | O.D. (d1) | Thickness (h) | Clear Zinc | P. Qty. | 410 SS | P. Qty. | Bolt or Screw size | O.D. (d1) | Thickness (h) | Clear Zinc | P. Qty. | 410 SS | P. Qty. |
| #6 | 5/16 | 0.020 | | | 433.006 | 100 | #6 | 9/32 | 0.018 | | | 431.006 | 200 |
| #8 | 3/8 | 0.020 | 427.8 | 100 | 433.008 | 100 | #8 | 21/64 | 0.020 | | | 431.008 | 100 |
| #10 | 13/32 | 0.022 | 427.10 | 100 | 433.010 | 100 | #10 | 3/8 | 0.022 | | | 431.010 | 100 |
| 1/4 | 1/2 | 0.025 | 427.14 | 100 | 433.14 | 100 | 1/4 | 15/32 | 0.025 | 425.14 | 100 | 431.14 | 100 |
| 5/16 | 19/32 | 0.030 | 427.516 | 50 | 433.516 | 100 | 5/16 | 19/32 | 0.030 | 425.516 | 100 | 431.516 | 100 |
| 3/8 | 11/16 | 0.035 | 427.38 | 50 | | | 3/8 | 11/16 | 0.035 | 425.38 | 100 | 431.38 | 100 |
| 7/16 | 25/32 | 0.035 | 427.716 | 50 | | | 7/16 | 25/32 | 0.035 | | | | |
| 1/2 | 7/8 | 0.040 | | | 433.12 | 100 | 1/2 | 7/8 | 0.040 | | | 431.12 | 100 |
| 5/8 | | 0.040 | | | | | 5/8 | | 0.040 | | | 431.58 | 100 |

METRIC SPLIT LOCK WASHERS



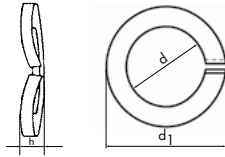
DIN 127

Spring Steel • Clear Zinc Plated
Spring Steel • Yellow Zinc Plated
Spring Steel • Hardened
• Clear Zinc Plated
Stainless Steel A2

Note: Only suitable for bolts of tensile strength class 5.8. For higher tensile strength classes, use serrated edge washers!

| Screw Size | d1 in mm | s in mm | b in mm | Steel, Clear Zinc | P. Qty. | Steel, Yellow Zinc | P. Qty. | Hardened, Clear Zinc | P. Qty. | A2 Stainless | P. Qty. |
|------------|----------|---------|---------|-------------------|---------|--------------------|---------|----------------------|---------|---------------|---------|
| M3 | 3.4 | 0.8 | 1.3 | 441.3 | 100 | | | | | | |
| M4 | 4.4 | 0.9 | 1.5 | 441.4 | 100 | | | | | 447.4 | 100 |
| M5 | 5.4 | 1.2 | 1.8 | 441.5 | 100 | | | | | 447.5 | 100 |
| M6 | 6.5 | 1.6 | 2.5 | 441.6 | 100 | 441.06 | 100 | 446.6 | 50 | 447.6 | 100 |
| M7 | 7.5 | 1.6 | 2.5 | 441.7 | 100 | | | 446.8 | | | |
| M8 | 8.5 | 2.0 | 3.0 | 441.8 | 100 | 441.08 | 100 | | | 447.8 | 100 |
| M10 | 10.7 | 2.2 | 3.5 | 441.10 | 100 | 441.010 | 100 | 446.10 | 50 | 447.10 | 50 |
| M12 | 12.7 | 2.5 | 4 | 441.12 | 50 | | | 446.12 | 25 | 447.12 | 50 |
| M14 | 14.7 | 3.0 | 4.5 | 441.14 | 50 | | | 446.14 | 25 | | |
| M16 | 17.0 | 3.5 | 5.0 | 441.16 | 50 | | | 446.16 | 10 | 447.16 | 50 |
| M18 | 19.0 | 3.5 | 5.0 | 441.18 | 50 | | | 446.18 | 10 | | |
| M20 | 21.2 | 4.0 | 6.0 | 441.20 | 25 | | | 446.20 | 10 | | |

METRIC SPRING LOCK WASHERS

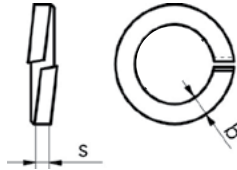


DIN 128

Form A • Curved
Steel • Clear Zinc Plated

| Screw Size | d in mm | h in mm | d1 in mm | Art. No. | P. Qty. |
|------------|---------|---------|----------|------------------|---------|
| M6 | 6.1 | 2.2 | 11.8 | 441.8..6 | |
| M8 | 8.1 | 2.75 | 14.8 | 441.8..8 | |
| M10 | 10.2 | 3.15 | 18.1 | 441.8..10 | |
| M12 | 12.2 | 3.65 | 21.1 | 441.8..12 | |
| M16 | 16.2 | 5.1 | 27.4 | 441.8..16 | |
| M20 | 20.2 | 5.9 | 33.6 | 441.8..20 | |

STANDARD SPLIT LOCK WASHERS



Steel • GR 5 • Clear Zinc Plated
Steel • GR 8 • Yellow Zinc Plated
Stainless Steel 18.8
Stainless Steel 316

| Bolt or Screw size | Width (b) | Thickness (s) | Grade 5, Clear Zinc | P. Qty. | Grade 8, Yellow Zinc | P. Qty. | 18-8 SS | P. Qty. | 316 SS | P. Qty. |
|--------------------|-----------|---------------|---------------------|---------|----------------------|---------|----------------|---------|--------------------|---------|
| #4 | 0.040 | 0.025 | 442.4 | 100 | | | | | | |
| #6 | 0.047 | 0.031 | 442.6 | 100 | | | 440.06 | 100 | | |
| #8 | 0.055 | 0.040 | 442.8 | 100 | | | 440.08 | 100 | | |
| #10 | 0.062 | 0.047 | 442.10 | 100 | | | 440.010 | 100 | 440.316.10 | 100 |
| #12 | 0.070 | 0.056 | | | | | | | 440.316.12 | 100 |
| 1/4 | 0.109 | 0.062 | 442.14 | 100 | 444.14 | 100 | 440.014 | 100 | 440.316.14 | 100 |
| 5/16 | 0.125 | 0.078 | 442.516 | 100 | 444.516 | 100 | 440.516 | 100 | 440.316.516 | 100 |
| 3/8 | 0.141 | 0.094 | 442.38 | 100 | 444.38 | 100 | 440.38 | 100 | 440.316.38 | 100 |
| 7/16 | 0.156 | 0.109 | 442.716 | 100 | 444.716 | 100 | 440.716 | 50 | 440.316.716 | 50 |
| 1/2 | 0.171 | 0.125 | 442.12 | 100 | 444.12 | 100 | 440.012 | 50 | 440.316.012 | 50 |
| 9/16 | 0.188 | 0.141 | 442.916 | 50 | 444.916 | 50 | | | | |
| 5/8 | 0.203 | 0.156 | 442.58 | 50 | 444.58 | 50 | 440.58 | 50 | 440.316.58 | 100 |
| 3/4 | 0.234 | 0.188 | 442.34 | 50 | 444.34 | 25 | 440.34 | 50 | 440.316.34 | 50 |
| 7/8 | 0.266 | 0.219 | | | 444.78 | 25 | | | 440.316.78 | 10 |
| 1 | 0.297 | 0.250 | 442.1 | 50 | 444.1 | 25 | | | | |
| 1-1/8 | 0.328 | 0.281 | | | 444.118 | 20 | | | | |
| 1-1/4 | 0.359 | 0.312 | | | 444.114 | 20 | | | | |
| 1-1/2 | 0.422 | 0.375 | | | 444.112 | 20 | | | | |

SEALING WASHERS WITH VULCANIZED RUBBER INSERT – PREFIX 459

Art. No. 459.10
ID: 11.8mm
OD: 19mm
Thickness: 1.5mm



Art. No. 459.12
ID: 13.7mm
OD: 22mm
Thickness: 1.5mm



Art. No. 459.14
ID: 15.9mm
OD: 22.3mm
Thickness: 2mm

METRIC SEALING WASHERS - VULCAN FIBRE DIN 7603A – PREFIX 465

Art. No. 465.12219
Screw Size : M12
OD: 19mm
Thickness: 1.5mm



Art. No. 465.14.20
Screw Size : M14
OD: 20mm
Thickness: 1.5mm



Art. No. 465.14224
Screw Size : M14
OD: 24mm
Thickness: 1.5mm

ID = Interior Diameter

OD = Outer Diameter

METRIC SEALING WASHERS



**Sealing Washers with
Vulcanized Rubber Insert
Prefix 459**

(see the blue pages for the full range)
Yellow Zinc Dichromate



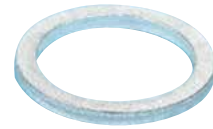
**Flat Solid Copper
Prefix 460**

(see the blue pages for the full range)
Heat resistant up to approximately
900 °C/ 1652 °F



**Crush Type Copper Asbestos-Free
Prefix 462**

(see the blue pages for the full range)
Heat resistant up to 900 °C/1652 °F



**Aluminum
Prefix 463**

(see the blue pages for the full range)
Heat resistant up to 300 °C/572 °F



**MFG Specific Drain Plug Washers
Prefix 464**

(see the blue pages for the full range)



**Vulcanized Fibre
Prefix 465**

(see the blue pages for the full range)
Heat resistant up to 90 °C/194 °F

SPECIALTY DRAIN PLUGS/ SEALING WASHERS – PREFIX 464



Art. No. 464.8277

ID : 1/2"
OD: 3/4"
Thickness: 3/32"



Art. No. 464.11422

ID : 14mm
OD: 22mm
Thickness: 2mm



Art. No. 464.16026

ID : 1/2"
OD: 1"
Thickness: 1/4"



Art. No. 464.19630

ID : 11mm
OD: 25mm
Thickness: 7mm



Art. No. 464.012242

ID : 12mm
OD: 24mm
Thickness: 2mm



Art. No. 464.018282

ID : 18mm
OD: 28mm
Thickness: 2mm



Art. No. 464.18665

ID : 11mm
OD: 21mm
Thickness: 2mm



Art. No. 464.20454

ID : 14mm
OD: 20mm
Thickness: 1.5mm

METRIC SEALING WASHER - COPPER DIN 7603A – PREFIX 460



Art. No. 460.6..10
Screw Size : M6
OD: 10mm
Thickness: 1mm



Art. No. 460.6..12
Screw Size : M6
OD: 12mm
Thickness: 1mm



Art. No. 460.8..12
Screw Size : M8
OD: 12mm
Thickness: 1mm



Art. No. 460.8..14
Screw Size : M8
OD: 14mm
Thickness: 1mm



Art. No. 460.10.14
Screw Size : M10
OD: 14mm
Thickness: 1mm



Art. No. 460.10.16
Screw Size : M10
OD: 16mm
Thickness: 1mm



Art. No. 460.10.18
Screw Size : M10
OD: 18mm
Thickness: 1mm



Art. No. 460.12.16
Screw Size : M12
OD: 16mm
Thickness: 1.5mm



Art. No. 460.12.18
Screw Size : M12
OD: 18mm
Thickness: 1.5mm



Art. No. 460.13.18
Screw Size : M13
OD: 18mm
Thickness: 1.5mm



Art. No. 460.14.18
Screw Size : M14
OD: 18mm
Thickness: 1.5mm



Art. No. 460.14.20
Art. No. 460.14.20.BK
Screw Size : M14
OD: 20mm
Thickness: 1.5mm



Art. No. 460.14.22
Screw Size : M14
OD: 22mm
Thickness: 1.5mm



Art. No. 460.15.20
Screw Size : M15
OD: 20mm
Thickness: 1.5mm



Art. No. 460.16.20
Screw Size : M16
OD: 20mm
Thickness: 1.5mm



Art. No. 460.16.22
Screw Size : M16
OD: 22mm
Thickness: 1.5mm



Art. No. 460.16.24
Screw Size : M16
OD: 24mm
Thickness: 1.5mm



Art. No. 460.18.22
Screw Size : M18
OD: 22mm
Thickness: 1.5mm



Art. No. 460.18.24
Screw Size : M18
OD: 24mm
Thickness: 1.5mm



Art. No. 460.20.26
Screw Size : M20
OD: 26mm
Thickness: 1.5mm



Art. No. 460.21.26
Screw Size : M21
OD: 26mm
Thickness: 1.5mm



Art. No. 460.22.27
Screw Size : M22
OD: 27mm
Thickness: 1.5mm



Art. No. 460.24.30
Screw Size : M24
OD: 30mm
Thickness: 2mm



Art. No. 460.26.32
Screw Size : M26
OD: 32mm
Thickness: 2mm



Art. No. 460.33.41
Screw Size : M33
OD: 41mm
Thickness: 2mm

COPPER ASB. FREE SEALING WASHER - CRUSHABLE TYPE – PREFIX 462


Art. No. 462.06.10

Screw Size : M6
OD: 10mm
Thickness: 1.5mm


Art. No. 462.010.16

Screw Size : M10
OD: 16mm
Thickness: 1.5mm


Art. No. 462.012.18

Screw Size : M12
OD: 18mm
Thickness: 2mm


Art. No. 462.014.18

Screw Size : M14
OD: 18mm
Thickness: 2mm


Art. No. 462.014.20

Screw Size : M14
OD: 20mm
Thickness: 2mm


Art. No. 462.014.22

Screw Size : M14
OD: 22mm
Thickness: 2mm


Art. No. 462.016.20

Screw Size : M16
OD: 20mm
Thickness: 2mm


Art. No. 462.016.22

Screw Size : M16
OD: 22mm
Thickness: 2mm


Art. No. 462.018.24

Screw Size : M18
OD: 24mm
Thickness: 2mm


Art. No. 462.020.26

Screw Size : M20
OD: 26mm
Thickness: 2mm

ALUMINUM METRIC SEALING WASHER - DIN 7603A – PREFIX 463


Art. No. 463.6..12

Screw Size : M6
OD: 12mm
Thickness: 1mm


Art. No. 463.8..12

Screw Size : M8
OD: 12mm
Thickness: 1mm


Art. No. 463.10.14

Screw Size : M10
OD: 14mm
Thickness: 1mm


Art. No. 463.10.16

Screw Size : M10
OD: 16mm
Thickness: 1mm


Art. No. 463.12.16

Screw Size : M12
OD: 16mm
Thickness: 1.5mm


Art. No. 463.12.18

Screw Size : M12
OD: 18mm
Thickness: 1.5mm


Art. No. 463.12.19

Screw Size : M12
OD: 19mm
Thickness: 1.5mm


Art. No. 463.14.18

Screw Size : M14
OD: 18mm
Thickness: 1.5mm


Art. No. 463.14.20

Screw Size : M14
OD: 20mm
Thickness: 1.5mm


Art. No. 463.14.22

Screw Size : M14
OD: 22mm
Thickness: 1.5mm


Art. No. 463.14.24

Screw Size : M14
OD: 24mm
Thickness: 1.5mm


Art. No. 463.16.20

Screw Size : M16
OD: 20mm
Thickness: 1.5mm


Art. No. 463.16.22

Screw Size : M16
OD: 22mm
Thickness: 1.5mm


Art. No. 463.18.22

Screw Size : M18
OD: 22mm
Thickness: 1.5mm


Art. No. 463.18.24

Screw Size : M18
OD: 24mm
Thickness: 1.5mm


Art. No. 463.20.26

Screw Size : M20
OD: 26mm
Thickness: 1.5mm


Art. No. 463.22.27

Screw Size : M22
OD: 27mm
Thickness: 1.5mm

ID = Interior Diameter
OD = Outer Diameter

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

ASSORTMENTS



Metric Flat Solid Copper Sealing Washer Assortment

Art. No. 964.460

Contents (1350 Pieces): 18 Assorted sizes, Size range 6 mm - 32 mm



Drain Plug & Washer Assortment

Art. No. 965.460801

Contents (269 Pieces): 12 assorted washers and 12 assorted drain plugs



Metric Aluminum Sealing Washer Assortment

Art. No. 964.463

Contents (525 Pieces): 18 Assorted sizes, Size range 6 mm - 30 mm



Metric Vulcanized Fibre Sealing Washer Assortment

Art. No. 964.465

Contents (1170 Pieces): 18 Assorted sizes, Size range 5 mm - 30 mm

ALUMINUM SEALING WASHERS FOR A/C SYSTEM ASSORTMENTS



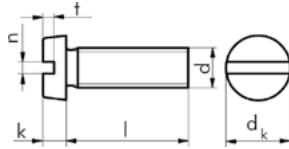
Art. No. 964.469 P. Qty: 1

Contents (70 Pieces):

| Aluminum Sealing Washers for A/C System Assortments | | | |
|---|---|------------------|------|
| Size | Description | Art. No. | Qty. |
| 5/8" | GM Compressor manifold sealing washer | 469.09638 | 10 |
| 5/8" | GM compressor manifold sealing washer, thin | 469.09639 | |
| 3/4" | GM compressor manifold sealing washer, thin | 469.09640 | |
| 8 mm | Block fitting sealing washer, slim line | 469.09887 | |
| 11 mm | Block fitting sealing washer, slim line | 469.09888 | |
| 15 mm | Block fitting sealing washer, slim line | 469.09889 | |
| 17 mm | Block fitting sealing washer, slim line | 469.09890 | |

These sealing washers help prevent leaking from the hose manifold at the joint where it attaches to the compressor.

METRIC SLOTTED CHEESE HEAD MACHINE SCREW



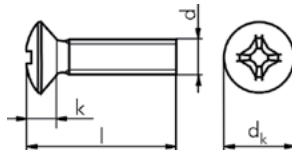
DIN 84 (ISO 1207)

Steel • Class 4.8 • Clear Zinc Plated

| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|---------------|------------------|---------|
| M5-0.8 | 10 | 040.5..10 | 50 |
| | 20 | 040.5..20 | 50 |
| | 30 | 040.5..30 | 50 |
| | 40 | 040.5..40 | 50 |
| M6-1.0 | 12 | 040.6..12 | 50 |
| | 16 | 040.6..16 | 50 |
| | 30 | 040.6..30 | 50 |

| Dia-Thread Pitch (d) | M5-0.8 | M6-1.0 |
|----------------------|--------|--------|
| dk in mm | 8.5 | 10.0 |
| k in mm | 3.3 | 3.9 |
| n in mm | 1.2 | 1.6 |
| t in mm | 1.3 | 1.6 |

METRIC OVAL HEAD PH MACHINE SCREWS



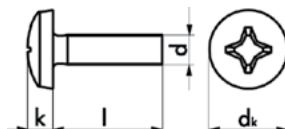
DIN 966 (ISO 7047)

Raised countersunk head • PH drive
Steel • Class 4.8 • Clear Zinc Plated

| Dia-Thread Pitch (d) | M4-0.7 | M5-0.8 | M6-1.0 |
|----------------------|--------|--------|--------|
| dk in mm | 7.5 | 9.2 | 11.0 |
| k in mm | 2.2 | 2.5 | 3.0 |
| Drive | H2 | H2 | H3 |

| Dia-Thread Pitch (d) | Length (l) mm | Art. No. | P. Qty. |
|----------------------|---------------|------------------|---------|
| M4-0.7 | 16 | 049.4..16 | 100 |
| M6-1.0 | 25 | 049.6..25 | 300 |
| | 30 | 049.6..30 | 50 |

METRIC PAN HEAD PH MACHINE SCREWS



DIN 7985 (ISO 7045)

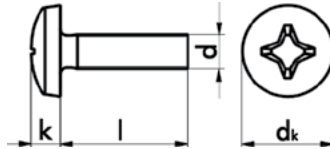
Steel • Class 4.8 • Clear Zinc Plated
Stainless Steel A2

| Dia-Thread Pitch (d) | M3-0.5 | M4-0.7 | M5-0.8 | M6-1.0 |
|----------------------|--------|--------|--------|--------|
| dk in mm | 6.0 | 8.0 | 10.0 | 12.0 |
| k in mm | 2.4 | 3.1 | 3.8 | 4.6 |
| Drive | H1 | H2 | H2 | H3 |

| Dia-Thread Pitch (d) | Length (l) mm | Steel 4.8 Clear Zinc | P. Qty. | A2 SS | P. Qty. |
|----------------------|---------------|----------------------|---------|-------|---------|
| M3-0.5 | 6 | 046.3..6 | 50 | | |
| | 8 | 046.3..8 | 50 | | |
| | 25 | 046.3..25 | 50 | | |
| M4-0.7 | 5 | 046.4..5 | 50 | | |
| | 6 | 046.4..6 | 50 | | |
| | 8 | 046.4..8 | 50 | | |
| | 10 | 046.4..10 | 50 | | |
| | 12 | 046.4..12 | 50 | | |
| | 16 | 046.4..16 | 50 | | |

| Dia-Thread Pitch (d) | Length (l) mm | Steel 4.8 Clear Zinc | P. Qty. | A2 SS | P. Qty. |
|----------------------|---------------|----------------------|---------|------------------|---------|
| M5-0.8 | 8 | | | 039.5..8 | 100 |
| | 10 | 046.5..10 | 50 | | |
| | 12 | | | 039.5..12 | 100 |
| | 16 | 046.5..16 | 50 | 039.5..16 | 100 |
| | 20 | | | 039.5..20 | 100 |
| M6-1.0 | 25 | | | 039.5..25 | 100 |
| | 10 | 046.6..10 | 50 | 039.6..10 | 100 |
| | 12 | 046.6..12 | 50 | 039.6..12 | 100 |
| | 16 | 046.6..16 | 50 | 039.6..16 | 100 |
| | 20 | 046.6..20 | 50 | 039.6..20 | 100 |
| | 25 | 046.6..25 | 50 | 039.6..25 | 100 |
| | 30 | 046.6..30 | 50 | | |

METRIC REDUCED PAN HEAD PH MACHINE SCREWS



J.I.S

Steel • Class 4.8 • Clear Zinc Plated

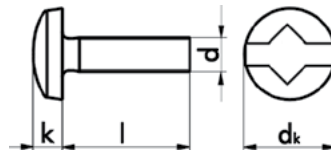


| Dia-Thread Pitch (d) | M4-0.7 | M5-0.8 | M6-1.0 |
|----------------------|--------|--------|--------|
| dk in mm | 7.8 | 9.3 | 11.7 |
| k in mm | 2.7 | 3.1 | 3.9 |
| Drive | H2 | H2 | H3 |

| Dia-Thread Pitch (d) | Length (l) mm | Steel 4.8, Clear Zinc | P. Qty. |
|----------------------|---------------|-----------------------|---------|
| M4-0.7 | 6 | 047.4..6 | 100 |
| | 10 | 047.4..10 | |
| | 12 | 047.4..12 | |
| | 16 | 047.4..16 | |
| | 20 | 047.4..20 | |
| | 25 | 047.4..25 | |
| M5-0.8 | 30 | 047.4..30 | 50 |
| | 10 | 047.5..10 | |
| | 16 | 047.5..16 | |
| | 20 | 047.5..20 | |
| | 25 | 047.5..25 | |
| | 30 | 047.5..30 | |
| | 35 | 047.5..35 | |

| Dia-Thread Pitch (d) | Length (l) mm | Steel 4.8, Clear Zinc | P. Qty. |
|----------------------|---------------|-----------------------|---------|
| M6-1.0 | 10 | 047.6..10 | 50 |
| | 12 | 047.6..12 | |
| | 16 | 047.6..16 | |
| | 20 | 047.6..20 | |
| | 25 | 047.6..25 | |
| | 30 | 047.6..30 | |
| | 40 | 047.6..40 | |
| | 50 | 047.6..50 | |

STANDARD PAN HEAD COMBINATION MACHINE SCREW



Slot/square drive

Steel • Clear Zinc Plated

Use with Prefix 329 nuts

| Diameter | #6 | #8 | #10 | 1/4 |
|---------------------------|-------|-------|-------|-------|
| Head Diameter dk | 0.250 | 0.298 | 0.347 | 0.458 |
| Head Height k | 0.097 | 0.114 | 0.130 | 0.168 |
| No. of threads/inch - UNF | 40 | 36 | 32 | 28 |
| No. of threads/inch - UNC | 32 | 32 | 24 | 20 |
| Square (Robertson) drive | 1 | 2 | 2 | 3 |

| Dia. in inches | Length in inches (l) | UNF, Clear Zinc | P. Qty. | UNC, Clear Zinc | P. Qty. |
|----------------|----------------------|-----------------|---------|-------------------|---------|
| #6 | 3/8 | | | 033.6..38 | 100 |
| | 1/2 | | | 033.6..12 | |
| | 5/8 | | | 033.6..58 | |
| | 3/4 | | | 033.6..34 | |
| | 1 | | | 033.6..1 | |
| | 1-1/4 | | | 033.6..114 | |
| | 1-1/2 | | | 033.6..112 | |
| | 2 | | | 033.6..2 | |
| #8 | 3/8 | | | 033.8..38 | 100 |
| | 1/2 | | | 033.8..12 | |
| | 5/8 | | | 033.8..58 | |
| | 3/4 | | | 033.8..34 | |
| | 1 | | | 033.8..1 | 50 |
| | 1-1/4 | | | 033.8..114 | |
| | 1-1/2 | | | 033.8..112 | |
| | 1-3/4 | | | 033.8..134 | |
| | 2 | | | 033.8..2 | |
| | 2-1/2 | | | 033.8..212 | |

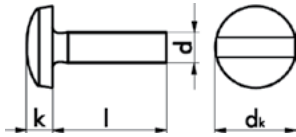
| Dia. in inches | Length in inches (l) | UNF, Clear Zinc | P. Qty. | UNC, Clear Zinc | P. Qty. |
|----------------|----------------------|-------------------|---------|-------------------|---------|
| #10 | 1/4 | 033.10.14 | 100 | | 100 |
| | 3/8 | 033.10.38 | 100 | 032.10.38 | |
| | 1/2 | 033.10.12 | 50 | 032.10.12 | |
| | 3/4 | 033.10.34 | 50 | 032.10.34 | |
| | 1 | 033.10.1 | 50 | 032.10.1 | 50 |
| | 1-1/4 | 033.10.114 | 50 | 032.10.114 | |
| | 1-1/2 | 033.10.112 | 50 | 032.10.112 | |
| | 2 | 033.10.2 | 50 | 032.10.2 | |
| 1/4 | 3 | 033.10.3 | 100 | 032.10.3 | 100 |
| | 1/2 | | | 032.14.12 | 50 |
| | 3/4 | | | 032.14.34 | |
| | 1 | | | 032.14.1 | |
| 1/2 | 1-1/4 | | | 032.14.114 | |
| | 1-1/2 | | | 032.14.112 | |
| | 3/4 | | | 032.12.34 | |
| | 1 | | | 032.12.1 | |



Standard Pan Rob/Slot Machine Screw Assortment
Art. No. 965.033329

Contents: 1650 pieces
14 assorted sizes, #6 - #10, with matching nuts and washers

STANDARD PAN HEAD SLOT MACHINE SCREW



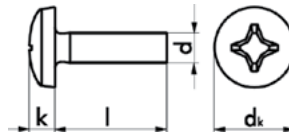
Stainless Steel 18.8

| Diameter | #6 | #8 | #10 | 1/4 |
|---------------------------|-------|-------|-------|-------|
| Head Diameter dk, max. | 0.270 | 0.322 | 0.373 | 0.492 |
| Head Height k, max. | 0.082 | 0.096 | 0.110 | 0.144 |
| No. of threads/inch - UNF | 40 | 36 | 32 | 28 |
| No. of threads/inch - UNC | 32 | 32 | 24 | 24 |
| Width of Slot (max.) | 0.048 | 0.054 | 0.060 | 0.075 |
| Depth of Slot (max.) | 0.050 | 0.058 | 0.068 | 0.087 |

| Dia. in inches | Length in inches (l) | UNF, 18-8 SS | P. Qty. | UNC, 18-8 SS | P. Qty. |
|----------------|----------------------|--------------|---------|--------------------|---------|
| #6 | 1/4 | | | 037.632.14 | 100 |
| | 1/2 | | | 037.632.12 | |
| #8 | 5/16 | | | 037.832.516 | |
| | 1/2 | | | 037.832.12 | |
| | 5/8 | | | 037.832.58 | |
| | 1-1/2 | | | 037.832.112 | |

| Dia. in inches | Length in inches (l) | UNF, 18-8 SS | P. Qty. | UNC, 18-8 SS | P. Qty. |
|----------------|----------------------|---------------------|---------|--------------------|---------|
| #10 | 1/4 | | | 037.1024.14 | 400 |
| | 3/8 | 037.1032.38 | 100 | | |
| | 1/2 | | | 037.1024.12 | 100 |
| | 5/8 | 037.1032.58 | 100 | | |
| | 3/4 | 037.1032.34 | 100 | 037.1024.34 | 200 |
| | 1 | | | 037.1024.1 | 100 |
| | 1-1/4 | | | | |
| 1/4 | 1-1/2 | 037.1032.112 | 200 | | |
| | 3/8 | | | | |
| | 3/4 | | | | |
| | 1 | | | 037.14.1 | 100 |
| | 1-1/2 | | | | |

STANDARD PAN HEAD PH MACHINE SCREW



Steel • Clear Zinc Plated

Stainless Steel 18.8

Stainless Steel 316

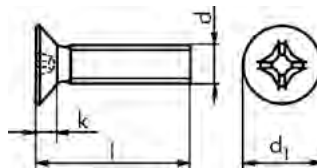
Use with Prefix 329 nuts or Prefix 340 nuts (stainless)

| Diameter | #4 | #6 | #8 | #10 | 1/4 | 5/16 |
|---------------------------|-------|-------|-------|-------|-------|-------|
| Head Diameter dk | 0.219 | 0.270 | 0.322 | 0.373 | 0.492 | 0.615 |
| Head Height k | 0.080 | 0.970 | 0.115 | 0.133 | 0.175 | 0.218 |
| No. of threads/inch - UNF | 48 | 40 | 36 | 32 | 28 | 24 |
| No. of threads/inch - UNC | 40 | 32 | 32 | 24 | 20 | 18 |
| PH Drive | 1 | 2 | 2 | 2 | 3 | 3 |

| Dia. d in inches | Length in inches (l) | UNC, Steel, Clear Zinc | P. Qty. | UNF, 18-8 SS | P. Qty. | UNC, 18-8 SS | P. Qty. | UNC, 316 SS | P. Qty. |
|------------------|----------------------|------------------------|---------|--------------|--------------------|--------------------|---------|-------------|---------|
| #4 | 1/4 | 036.4..14 | 500 | | | | | | |
| | 3/8 | 036.4..38 | | | | 035.440.38 | 100 | | |
| | 1/2 | 036.4..12 | | 100 | | | | | |
| | 3/4 | 036.4..34 | | 500 | | | | | |
| #6 | 1/4 | | | | | 035.632.14 | 100 | | |
| | 3/8 | 036.6..38 | 500 | | | 035.632.38 | | | |
| | 1/2 | 036.6..12 | 100 | | | 035.632.12 | | | |
| | 5/8 | 036.6..58 | 500 | | | 035.632.58 | | | |
| | 3/4 | 036.6..34 | 100 | | | 035.632.34 | | | |
| | 1 | | | | | 035.632.1 | 100 | | |
| #8 | 1-1/4 | | | | | 035.632.114 | | | |
| | 1-1/2 | | | | | 035.632.112 | | | |
| | 1/4 | | | | | 035.832.14 | | | |
| | 3/8 | | | | | 035.832.38 | | | |
| | 1/2 | 036.8..12 | 100 | | | 035.832.12 | 100 | | |
| | 5/8 | | | | | 035.832.58 | | | |
| | 3/4 | 036.8..34 | 100 | | | 035.832.34 | | | |
| 1 | 036.8..1 | 100 | | | 035.832.1 | | | | |
| 1-1/2 | | | | | 035.832.112 | | | | |

| Dia. d in inches | Length in inches (l) | UNC, Steel, Clear Zinc | P. Qty. | UNF, 18-8 SS | P. Qty. | UNC, 18-8 SS | P. Qty. | UNC, 316 SS | P. Qty. |
|------------------|----------------------|------------------------|---------|---------------------|---------|--------------------|---------|---------------------|---------|
| #10 | 1/4 | | | | | | | | |
| | 3/8 | | | 035.1032.38 | 100 | 035.1024.38 | 100 | | |
| | 1/2 | 036.10.12 | 100 | 035.1032.12 | 100 | 035.1024.12 | 50 | 035.01024.12 | 100 |
| | 5/8 | | | 035.1032.58 | 100 | 035.1024.58 | 100 | | |
| | 3/4 | 036.10.34 | 100 | 035.1032.34 | 50 | 035.10.34 | 50 | 035.01024.34 | 100 |
| | 7/8 | | | | | | | | |
| | 1 | 036.10.1 | 50 | 035.1032.1 | 50 | 035.10.1 | 50 | 035.01024.1 | 100 |
| | 1-1/4 | 036.10.114 | 50 | 035.1032.114 | 100 | 035.10.114 | 50 | | |
| | 1-1/2 | 036.10.112 | 50 | 035.1032.112 | 50 | 035.10.112 | 50 | | |
| 1/4 | 2 | 036.10.2 | 50 | 035.1032.2 | 50 | 035.10.2 | 50 | | |
| | 3/8 | | | | | | | | |
| | 1/2 | 036.14.12 | 50 | | | 035.14.12 | 100 | 035.014.12 | 50 |
| | 3/4 | 036.14.34 | 50 | | | 035.14.34 | 100 | | |
| | 1 | 036.14.1 | 50 | | | 035.14.1 | 50 | 035.014.1 | 50 |
| | 1-1/4 | 036.14.114 | 100 | | | 035.14.114 | 50 | 035.014.34 | 100 |
| | 1-1/2 | 036.14.112 | 300 | | | 035.14.112 | 50 | 035.014.112 | 50 |
| 5/16 | 1-3/4 | | | | | 035.14.134 | 100 | | |
| | 2 | | 50 | | | 035.14.2 | 50 | | |
| | 1 | | | | | | | 035.0516.1 | 25 |
| | 1-1/2 | | | | | | | 035.0516.112 | 25 |

STANDARD FLAT HEAD PH MACHINE SCREW



Steel • Clear Zinc Plated
Stainless Steel 18.8
Stainless Steel 316

| Diameter | #4 | #6 | #8 | #10 | 1/4 |
|---------------------------|-------|-------|-------|-------|-------|
| Head Diameter max. d1 | 0.225 | 0.279 | 0.332 | 0.385 | 0.507 |
| Head Height max. k | 0.067 | 0.083 | 0.100 | 0.116 | 0.153 |
| No. of threads/inch - UNF | 48 | 40 | 36 | 32 | 28 |
| No. of threads/inch - UNC | 40 | 32 | 32 | 24 | 20 |
| PH Drive | 1 | 2 | 2 | 2 | 3 |

| Thread dia. d in inches | Length l in inches | UNF, 18-8 | P. Qty. | UNC, 18-8 | P. Qty. | UNC 316 | P. Qty. |
|-------------------------|--------------------|---------------------|---------|---------------------|---------|---------------------|---------|
| #4 | 1/4 | | | | | | |
| | 3/4 | | | | | | |
| | 1 | | | | | | |
| #6 | 1/2 | | | 034.632.12 | 100 | | |
| | 5/8 | | | 034.632.58 | 100 | | |
| | 3/4 | | | 034.632.34 | 100 | | |
| | 1 | | | 034.632.1 | 100 | | |
| | 1-1/4 | | | 034.632.114 | 100 | | |
| #8 | 1-1/2 | | | 034.632.112 | 100 | | |
| | 1/4 | | | 034.832.14 | 100 | | |
| | 7/16 | | | 034.832.716 | 100 | | |
| | 3/4 | | | 034.832.34 | 100 | 034.832.345 | 100 |
| | 7/8 | | | 034.832.78 | 100 | | |
| | 1 | | | 034.832.1 | 100 | | |
| | 1-1/4 | | | | | | |
| | 1-1/2 | | | 034.832.112 | 100 | | |
| #10 | 5/16 | | | | | | |
| | 1/2 | 034.1032.12 | 100 | 034.1024.12 | 100 | | |
| | 5/8 | | | | | | |
| | 3/4 | 034.1032.34 | 100 | 034.1024.34 | 100 | | |
| | 1 | 034.1032.1 | 100 | 034.1024.1 | 100 | 034.1024.15 | 100 |
| | 1-1/4 | | | 034.1024.114 | 100 | | |
| | 1-1/2 | 034.1032.112 | 100 | 034.1024.112 | 100 | | |
| | 2 | | | | | | |
| 1/4 | 3/8 | | | 034.14.38 | 100 | | |
| | 1/2 | | | 034.14.12 | 100 | | |
| | 3/4 | | | 034.14.34 | 100 | 034.1420.345 | 100 |
| | 1 | | | 034.14.1 | 100 | 034.1420.15 | 50 |
| | 1-1/4 | | | 034.14.114 | 100 | | |
| | 1-1/2 | | | 034.14.112 | 100 | | |
| | 1-3/4 | | | 034.14.134 | 100 | | |
| | 2 | | | 034.14.2 | 100 | | |
| | 3 | | | 034.14.3 | 100 | | |

ASSORTMENTS



Pan Head PH Machine Screw and Nut Assortment

Art. No. 965.035

18.8 Stainless Steel
Contents (700 pieces):
 size range #6 - #1/4"



Pan Head Combo (Rob/Slot) Machine Screw, Nut and Washer Assortment

Art. No. 965.033329

Clear zinc
Contents (1650 Pieces):
 size range: #6 - #10

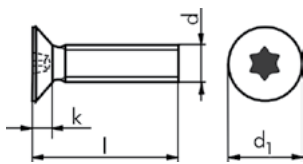


Flat Head PH Machine Screw and Nut Assortment

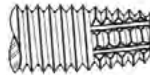
Art. No. 965.034

18.8 Stainless Steel
Contents (700 pieces):
 size range #6 - #1/4"

STANDARD FLAT HEAD TORX FLOOR BOARD SCREW



Type 'F' • Black Phosphate



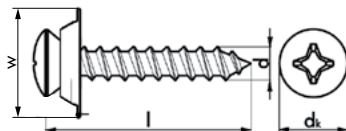
Type F Point:

A thread cutting screw with machine screw thread and blunt tapered point. Multi-cutting edges and chip cavities. For heavy gauge sheet metal, aluminum, zinc and lead die castings, cast iron, brass and plastic.

| Dia. in inches | Length in inches (l) | UNC, Type F, black phos. | P. Qty. |
|----------------|----------------------|--------------------------|---------|
| 1/4 | 1-1/2 | 219.14.112 | 100 |
| | 2 | 219.14.2 | |
| | 2-1/4 | 219.14.214 | |
| | 2-1/2 | 219.14.212 | |
| 5/16 | 2 | 219.516.2 | 100 |
| | 2-1/4 | 219.516.214 | |
| | 2-1/2 | 219.516.212 | |

| Diameter | 1/4 | 5/16 |
|------------------------------|-------|-------|
| Head Diameter (d1) | 0.455 | 0.616 |
| Depth of Square and Head (k) | 0.083 | 0.099 |
| No. of threads/inch - UNC | 20 | 18 |
| Torx-Drive | T-30 | T-40 |

STANDARD OVAL HEAD PH SEMS FINISHING SCREWS



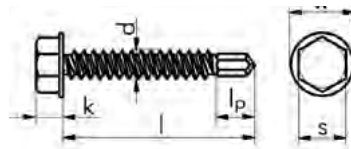
With countersunk washer
 Chrome Plated
 Black Phosphate (Bare)

Not recommended for license plate applications. See Prefixes 124 and 453.

| Dia. in inches (d) | Length in inches (l) | Chrome plated | P. Qty. | Black phosphate | P. Qty. |
|--------------------|----------------------|-------------------|---------|-------------------|---------|
| #8 | 5/8 | 138.8..58 | 50 | 139.8..58 | 50 |
| | 3/4 | 138.8..34 | 50 | 139.8..34 | 50 |
| | 1 | 138.8..1 | 50 | 139.8..1 | 50 |
| | 1-1/4 | 138.8..114 | 50 | 139.8..114 | 50 |
| #10 | 5/8 | 138.10.58 | 50 | | |
| | 3/4 | 138.10.34 | 50 | 139.10.34 | 50 |
| | 1 | 138.10.1 | 50 | 139.10.1 | 50 |

| Diameter | #6 | #8 | #10 |
|------------------|-------|-------|-------|
| Head Diameter dk | 0.138 | 0.164 | 0.190 |
| Washer w | 1/2 | 1/2 | 17/32 |
| PH Drive | 2 | 2 | 2 |

METRIC HEX HEAD DRILL POINT ZEBRA PIAS



W-214 (similar to DIN 7504-K)

Hex washer head
Steel • Clear Zinc Plated (A3K)

- Drilling, threading, screwing-in - all in one.
- Work faster with Zebra pias than with any spiral drill. Lower your mounting costs by at least 50%.
- For universal use via hex head.

For elongated joint screwing of:

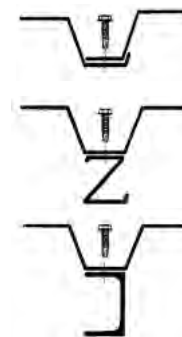
Steel profile plates.

Direct screwing of:

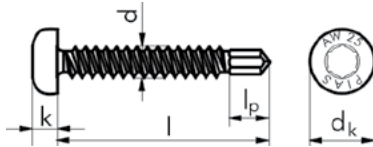
Steel profiles to: Steel substructure.

| Diameter (d) in mm | 3.5 | 4.2 | 4.8 | 5.5 | 6.3 |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
| s in mm | 5.5 | 7.0 | 8.0 | 8 | 10 |
| k in mm | 2.8 | 3.3 | 3.6 | 4.8 | 5.8 |
| lp in mm | 3.0 | 4.5 | 5 | 6.5 | 7.5 |
| Drilling range in mm | 0.7-2.25 | 1.75-3.0 | 1.75-4.0 | 1.75-5.25 | 2.0-6.0 |
| Guide value for processing speeds | 1700-2500 rpm | 1200-1800 rpm | 1200-1800 rpm | 1200-1800 rpm | 1200-1800 rpm |

| Dia. d in mm | Length in mm (l) | Steel, Clear Zinc | P. Qty. | |
|--------------|------------------|---------------------|---------|------|
| 3.5 | 13 | 214.35.13 | 100 | |
| | 13 | 214.42.13 | | |
| 4.2 | 16 | 214.42.16 | | |
| | 19 | 214.42.19 | | |
| | 25 | 214.42.25 | | |
| 4.8 | 13 | 214.48.13 | | 50 |
| | 16 | 214.48.16 | | |
| | 19 | 214.48.19 | | |
| | 25 | 214.48.25 | | |
| | 32 | 214.48.32 | | |
| | 38 | 214.48.38 | | |
| 5.5 | 50 | 214.48.50 | 100 | |
| | 16 | 214.55.16 | | |
| | 19 | 214.55.19 | | |
| | 25 | 214.55.25 | | |
| | 32 | 214.55.32 | | |
| 6.3 | 38 | 214.55.38 | 50 | |
| | 50 | 214.55.50 | | |
| | 16 | 214.63.16 | | |
| | 19 | 214.63.19 | | |
| | 25 | 214.63.25 | | |
| | | 214.63.25.BK | | 250* |
| 6.3 | 32 | 214.63.32 | 25 | |
| | 38 | 214.63.38 | | |
| | 50 | 214.63.50 | | |



METRIC PAN HEAD AW DRIVE DRILL POINT PIAS

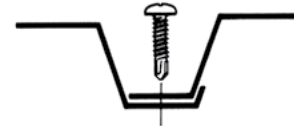


Faster than any twist drill - reduces assembly costs by at least 50%

Steel • Clear Zinc Plated (A3K)

For elongated joint screwing on:

Steel profile plates and aluminum profile plates.



| Diameter d in mm | 3.5 | 4.2 | 4.8 |
|-----------------------------------|---------------|---------------|---------------|
| Head dk in mm | 6.9 | 8.0 | 9.5 |
| k in mm | 2.75 | 3.45 | 3.85 |
| l _p in mm | 3 | 3.7 | 4.5 |
| Drive | AW10 | AW20 | AW25 |
| Drilling range in mm | 0.7-2.25 | 1.75-3.0 | 1.75-4.0 |
| Guide value for processing speeds | 1700-2500 rpm | 1200-1800 rpm | 1200-1800 rpm |

| Dia. d in mm | Length (l) mm | Steel, Clear Zinc | P. Qty. |
|--------------|---------------|-------------------|---------|
| 3.5 | 13 | 211.35.13 | 100 |
| | 13 | 211.42.13 | |
| 4.2 | 19 | 211.42.19 | |
| | 25 | 211.42.25 | |
| | 13 | 211.48.13 | |
| 4.8 | 19 | 211.48.19 | |
| | 25 | 211.48.25 | |



Self-Drilling Zebra Pias Screw Assortment

Art. No. 965.211214

Contents: 700 pieces

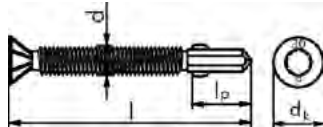
16 assorted sizes, size range 4.2 mm - 6.3 mm (Prefix 211 and 214).



AW drive system:

- Improved torque transmission.
- Longer life.
- Optimum centering.
- Better mounting output thanks to fatigue-free screwing; the required contact pressure for transmission of the torques is considerably lower.
- Largest possible contact surface of bit in screw drive.
- Even force distribution prevents damaging of the surface-protection coating and thus ensures better resistance to corrosion.

METRIC FLAT HEAD AW WING PIAS DRILL POINT SCREW



| Drilling range | Head diameter (dk) | Drilling tip length (lp) | Drilling range | Art. No. | P. Qty. |
|----------------|--------------------|--------------------------|----------------|-------------------|---------|
| M6 x 60 | 15 | 13 | 1.75 mm - 6 mm | 219.663.60 | 500 |
| M6 x 65 | 15 | 13 | | 219.663.65 | 100 |
| M6 x 80 | 15 | 13 | | 219.663.80 | 250 |

AW drive system:

- Improved torque transmission.
- Longer life.
- Optimum centering.
- Better mounting output thanks to fatigue-free screwing; the required contact pressure for transmission of the torques is considerably lower.
- Largest possible contact surface of bit in screw drive.
- Even force distribution prevents damaging of the surface-protection coating and thus ensures better resistance to corrosion.



The screw for binding wood to metal.

The advantage of our Zebra Wing pias is the savings in time of up to 50% during application. Pre-drilling with a twist drill is not necessary.



Features:

- Drive - AW 30
- Steel, Ruspert-coated.
- With milling ribs for hard and soft wood on steel substructures.
- Advantage: Corrosion protection = Ruspert-coated (approx. 500 h salt spray test)

Advantages:

- The drilling tip, with wings and a patented cutting shape, drills the wood according to the outer diameter of the wings; this avoids force feeding of the screw.
- After drilling through the wood, the drilling tip meets the metal substructure and begins to drill the core hole for the thread. The wings break off automatically once the drilling tip penetrates the metal.
- Once the drilling tip is through the metal, the thread is cut by the initial turns.
- The screw is screwed into the self-cut thread and binds the wood and metal.
- In the case of screws with milling ribs (for hard wood), the head is countersunk automatically.
- The various thread types, head diameters and head designs guarantee the right screw type for a variety of wood and steel types.

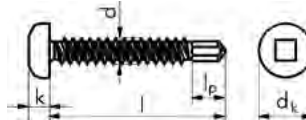
Technical Information

- The pias screws can only drill up to 6 mm steel!
- Do NOT use an impact drill with these screws. Use a normal power screw driver or power drill.
- Do NOT exceed 2000 RPMs.

Note:

To be used with Würth Assy bits (Art. No. 614.5130 or Art. No. 614.5230)

STANDARD PAN HEAD SQUARE DRILL POINT SCREWS



| Dia. in inches | Length in inches (l) | Square, Clear Zinc | P. Qty. |
|----------------|----------------------|--------------------|---------|
| #6 | 1/2 | 101.6..12 | 200 |
| | 1/2 | 101.8..12 | 100 |
| | 3/4 | 101.8..34 | 100 |
| | 5/8 | 101.8..58 | 200 |
| #8 | 1 | 101.8..1 | 100 |
| | 1-1/4 | 101.8..114 | 200 |
| | 1-1/2 | 101.8..112 | 100 |
| | 2 | 101.8..2 | 200 |

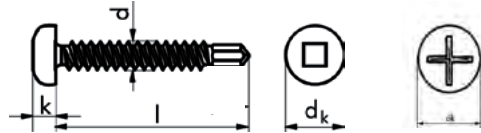
Steel • Clear Zinc Plated
Drill Point:2

| Diameter | #8 | #10 |
|------------------|-------|-------|
| Head Diameter dk | 0.322 | 0.373 |
| Head Height k | 0.115 | 0.133 |
| Square Drive | 2 | 2 |

| #10 | 1/2 | 101.10.12 | 100 |
|-----|-------|-------------------|-----|
| | 3/4 | 101.10.34 | 100 |
| | 5/8 | 101.10.58 | 200 |
| | 1 | 101.10.1 | 100 |
| | 1-1/4 | 101.10.114 | 200 |
| | 1-1/2 | 101.10.112 | 100 |
| | 2 | 101.10.2 | 200 |

STANDARD PAN HEAD DRILL POINT SCREW

Steel • Clear Zinc Plated
Stainless Steel 410



| Diameter | #6 | #8 | #10 |
|------------------|-------|-------|-------|
| Head Diameter dk | 0.263 | 0.314 | 0.365 |
| Head Height k | 0.077 | 0.090 | 0.105 |
| PH Drive | 2 | 2 | 2 |
| Square Drive | 1 | 2 | 2 |

Self-Drilling Screw Assortment

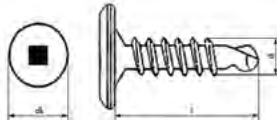
Art. No. 965.213214

Contents: 1200 pieces

17 assorted sizes: #8, #10, 4.2, 4.8, 5.5 and 6.3 (Prefixes 213 and 214).

| Dia. in inches | l in inches | PH, Clear Zinc | P. Qty. | Square, 410 Stainless | P. Qty. |
|----------------|-------------|----------------|---------|-----------------------|---------|
| #6 | 1/2 | 213.6..12 | 100 | | |
| | 1/2 | 213.8..12 | 100 | 105.8..12 | 100 |
| #8 | 5/8 | | | 105.8..58 | 100 |
| | 3/4 | 213.8..34 | 100 | 105.8..34 | 100 |
| | 1 | 213.8..1 | 100 | 105.8..1 | 100 |
| | 1 | 213.8..1 | 100 | 105.8..1 | 100 |
| #10 | 1/2 | 213.10.12 | 100 | | |
| | 3/4 | 213.10.34 | 100 | 105.10.34 | 100 |
| | 1 | 213.10.1 | 100 | | |

STANDARD WAFER HEAD SQUARE DRIVE DRILL POINT

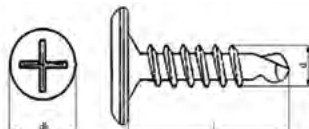


Steel • Clear Zinc Plated

| Thread Dia (d) | #10 |
|------------------|-------|
| Head Diameter dk | 0.465 |
| Square Drive | 2 |

| Thread dia. in inches | Length l in inches | Drill point | Max. drillable metal | Ruspert coated | P. Qty. |
|-----------------------|--------------------|-------------|----------------------|----------------|---------|
| #10 | 3/4 | #3 | 0.110 | 219.510.34 | 100 |
| | 1 | #3 | 0.175 | 219.510.1 | 100 |
| | 1-1/4 | #3 | 0.175 | 219.510.114 | 100 |
| | 1-1/2 | #3 | 0.175 | 219.510.112 | 100 |

STANDARD SERRATED WAFER HEAD PH DRIVE DRILL POINT

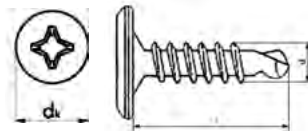


Steel • Clear Zinc Plated

| Thread dia. (d) | #10 |
|------------------|-------|
| Head Diameter dk | 0.580 |
| PH Drive | #2 |

| Thread dia. in inches | Length l in inches | Drill point | Max. drillable metal | Blue passiv. | P. Qty. |
|-----------------------|--------------------|-------------|----------------------|--------------|---------|
| #10 | 3/4" | #2 | 0.100 | 218.710.34 | 500 |
| | 1" | #2 | 0.110 | 218.710.1 | 500 |

STANDARD WAFER HEAD PH DRIVE DRILL POINT

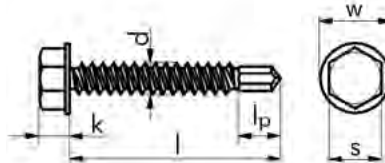


Steel • Yellow Zinc Plated

| | |
|-------------------|------------|
| Diameter d | #10 |
| Head Diameter dk | 0.500 |
| PH drive | #2 |

| Dia. in inches | Length in inches (l) | Drill point | Max. drillable metal | Yellow Zinc | P. Qty. |
|----------------|----------------------|-------------|----------------------|------------------|---------|
| #10 | 1" | #3 | 0.175 | 219.710.1 | 100 |

STANDARD HEX HEAD DRILL POINT SCREWS



Hex washer head
Steel • Clear Zinc Plated
Stainless Steel 410



| Diameter | #6 | #8 | #10 | #12 | #14 |
|-----------------|-------|-------|-------|-------|-------|
| Head Diameter s | 0.250 | 0.250 | 0.312 | 0.312 | 0.375 |
| Washer Diameter | 0.316 | 0.335 | 0.399 | 0.415 | 0.500 |
| Head height k | 0.086 | 0.128 | 0.138 | 0.178 | 0.221 |

Drill Point Hex Head Screw Assortment Art. No. 965.214

Contents: 1200 pieces
12 assorted sizes: #8, #10, #12, #14

| Diameter in inches | l in inches | Drill point | Steel, Clear Zinc | P. Qty. | 410 S5 | P. Qty. |
|--------------------|-------------|-----------------|-------------------|---------|-------------------|---------|
| #8 | 1/2 | #2 | 214.8..12 | 100 | 215.8..12 | 100 |
| | 3/4 | #2 | 214.8..34 | 100 | 215.8..34 | 100 |
| | 1 | #2 | 214.8..1 | 100 | 215.8..1 | 100 |
| | 1-1/4 | #2 | 214.8..114 | 100 | | |
| | 1-1/2 | #2 | 214.8..112 | 100 | | |
| | 2 | #2 | 214.8..2 | 100 | | |
| #10 | 1/2 | #2 | 214.10.12 | 200 | | |
| | 5/8 | #2 | 214.10.58 | 200 | | |
| | 3/4 | #2 | 214.10.34 | 100 | 215.10.34 | 100 |
| | 1 | #3 | 214.10.1 | 100 | | |
| | 1-1/4 | #3 | 214.10.114 | 200 | 215.10.114 | |
| | 1-1/2 | #3 | 214.10.112 | 100 | 215.10.112 | 100 |
| #12 | 2 | #3 | 214.10.2 | 100 | | |
| | 3/4 | #3 | 214.12.34 | 100 | 215.12.34 | 100 |
| | 1 | #3 | 214.12.1 | 100 | 215.12.1 | 100 |
| | 1-1/2 | #3 | 214.12.112 | 100 | | |
| | 2 | #3 | 214.12.2 | 100 | | |
| | 2-1/2 | #3 | 214.12.212 | 100 | | |
| #14 | 3/4 | #3 | 214.14.34 | 100 | 215.14.34 | 100 |
| | 1 | #3 | 214.14.1 | 100 | 215.14.1 | 100 |
| | 1-1/4 | #3 | 214.14.114 | 100 | | |
| | 1-1/2 | #3 | 214.14.112 | 100 | | |
| | 2 | #3 | 214.14.2 | 100 | | |
| | 2-1/2 | #3 | 214.14.212 | 100 | | |
| 3 | #3 | 214.14.3 | 100 | | | |



Premium Drill Point Hex Head Screw Assortment Art. No. 965.214001

Contents: 525 pieces
12 assorted sizes: #8, #10, #12, #14

*Bulk

SELF-DRILLING TEK SCREW – STAINLESS STEEL



Features:

- Heat-treated to maintain good corrosion resistance
- Screws have self-drilling tips for maximum drilling
- 410 stainless steel is magnetic which allows the use of magnetic sockets during installation
- Indented hex washer head ensures secure grip while drilling
- Ductile and well suited for highly stressed parts
- Corrosion resistant and RoHS compliant

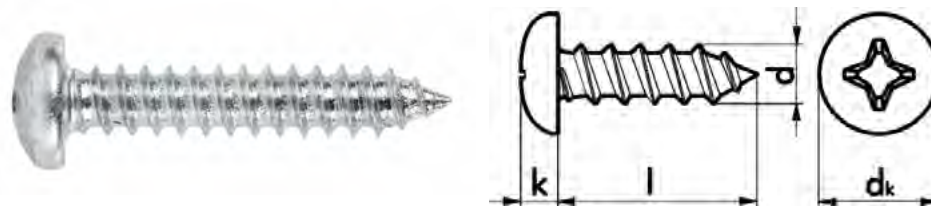
Applications:

- HVAC, Marine, Alternative Energy, Agriculture, Construction, Heavy Equipment, Outdoor maintenance
- Anywhere corrosion resistance is required

| Diameter | #14 |
|-----------------------------------|-------|
| Head Diameter (s ₁) | 0.375 |
| Washer Diameter (d ₁) | 0.500 |
| Head Height (k) | 0.170 |

| Thread dia. in inches | Length in inches | 410 Stainless Steel | P. Qty. |
|-----------------------|------------------|---------------------|---------|
| #14 | 1 | 215.014.01 | 100 |
| | 2 | 215.014.02 | |

METRIC PAN HEAD PH SHEET METAL (TAPPING) SCREWS



DIN 7981 (ISO 7049)

Steel - Clear Zinc Plated (A2K)

Steel - Black (A2S)

Stainless Steel A2

Features:

- Flat head and rounded sides
- Sharp threads draw material together to ensure a secure hold
- Fully threaded with a sharp point at the tip

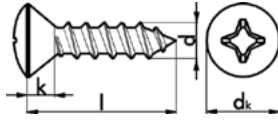
Applications:

- Highly versatile screw used for attaching; metal, wood, fiberglass, plastic
- Machining
- Manufacturing
- Automotive

| Diameter | 2.9 | 3.5 | 3.9 | 4.2 | 4.8 | 5.5 | 6.3 |
|---------------------|-----|-----|-----|------|------|------|------|
| Head dia. dk in mm | 5.6 | 6.9 | 7.5 | 8.2 | 9.5 | 10.8 | 12.5 |
| Head height k in mm | 2.2 | 2.6 | 2.8 | 3.05 | 3.55 | 3.95 | 4.55 |
| Drive | H1 | H2 | H2 | H2 | H2 | H3 | H3 |

| Dia (d) in mm | Length (l) mm | Steel, Clear Zinc | P. Qty. | Steel, black | P. Qty. | A2 Stainless | P. Qty. |
|---------------|---------------|-------------------|---------|------------------|---------|------------------|---------|
| 2.9 | 9.5 | 115.29.95 | 100 | 134.29.95 | 100 | | |
| | 13 | | | | | 119.29.13 | 100 |
| | 25 | 115.29.25 | 100 | | | | |
| 3.5 | 9.5 | 115.35.95 | 100 | | | | |
| | 13 | 115.35.13 | 100 | 134.35.13 | 100 | 119.35.13 | 100 |
| | 16 | 115.35.16 | 100 | 134.35.16 | 100 | | |
| | 19 | 115.35.19 | 100 | 134.35.19 | 100 | 119.35.19 | 100 |
| | 22 | 115.35.22 | 100 | | | | |
| | 25 | 115.35.25 | 100 | | | 119.35.25 | 100 |
| 3.9 | 13 | | | 134.39.13 | 100 | | |
| | 16 | | | 134.39.16 | 100 | | |
| | 19 | 115.39.19 | 100 | 134.39.19 | 100 | | |
| 4.2 | 9.5 | 115.42.95 | 100 | 134.42.95 | 100 | 119.42.95 | 100 |
| | 13 | 115.42.13 | 100 | 134.42.13 | 100 | 119.42.13 | 100 |
| | 16 | 115.42.16 | 100 | 134.42.16 | 100 | | |
| | 19 | 115.42.19 | 100 | 134.42.19 | 100 | 119.42.19 | 100 |
| | 22 | 115.42.22 | 100 | | | | |
| | 25 | 115.42.25 | 100 | 134.42.25 | 100 | 119.42.25 | 100 |
| | 32 | 115.42.32 | 100 | 134.42.32 | 100 | 119.42.32 | 100 |
| | 38 | 115.42.38 | 100 | 134.42.38 | 100 | 119.42.38 | 100 |
| 4.8 | 50 | | | | | 119.42.50 | 50 |
| | 9.5 | 115.48.95 | 100 | | | | |
| | 13 | 115.48.13 | 100 | 134.48.13 | 100 | 119.48.13 | 100 |
| | 16 | 115.48.16 | 100 | 134.48.16 | 100 | | |
| | 19 | 115.48.19 | 100 | 134.48.19 | 100 | 119.48.19 | 100 |
| | 22 | 115.48.22 | 100 | | | | |
| | 25 | 115.48.25 | 100 | 134.48.25 | 50 | 119.48.25 | 100 |
| | 32 | 115.48.32 | 50 | 134.48.32 | 50 | 119.48.32 | 100 |
| | 38 | 115.48.38 | 50 | 134.48.38 | 50 | 119.48.38 | 100 |
| | 50 | 115.48.50 | 50 | | | 119.48.50 | 50 |
| 5.5 | 13 | 115.55.13 | 100 | 134.55.13 | 50 | | |
| | 16 | 115.55.16 | 100 | 134.55.16 | 50 | | |
| | 19 | 115.55.19 | 100 | 134.55.19 | 50 | 119.55.19 | 50 |
| | 25 | 115.55.25 | 50 | 134.55.25 | 50 | 119.55.25 | 50 |
| | 32 | 115.55.32 | 50 | | | 119.55.32 | 50 |
| | 38 | 115.55.38 | 50 | | | 119.55.38 | 50 |
| 6.3 | 50 | | | | | 119.55.50 | 50 |
| | 13 | | | | | 119.63.13 | 100 |
| | 16 | 115.63.16 | 50 | | | | |
| | 19 | 115.63.19 | 50 | | | 119.63.19 | 50 |
| | 22 | | | | | | |
| | 25 | 115.63.25 | 50 | | | 119.63.25 | 50 |
| | 32 | 115.63.32 | 50 | | | 119.63.32 | 32 |
| | 38 | 115.63.38 | 50 | | | 119.63.38 | 50 |

METRIC OVAL HEAD PH SHEET METAL (TAPPING) SCREWS



DIN 7983 (ISO 7051)

Steel - Clear Zinc Plated (A2K)

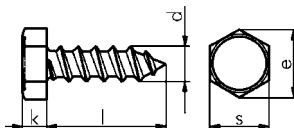
Steel - Black (A2S)

Stainless Steel A2

| Diameter | 2.9 | 3.5 | 3.9 | 4.2 | 4.8 | 5.5 |
|---------------------|-----|-----|-----|-----|-----|------|
| Head dia. dk in mm | 5.5 | 6.8 | 7.5 | 8.1 | 9.5 | 10.8 |
| Head height k in mm | 1.7 | 2.1 | 2.3 | 2.5 | 3 | 3.4 |
| Drive | H1 | H2 | H2 | H2 | H2 | H3 |

| Diameter in mm (d) | Length l in m | Steel, Clear Zinc | P. Qty. | Steel, black | P. Qty. | A2 Stainless | P. Qty. |
|--------------------|------------------|-------------------|---------|------------------|------------------|------------------|---------|
| 2.9 | 6.5 | 117.29.65 | 100 | | | | |
| | 13 | | | | | 124.29.13 | 100 |
| | 19 | | | | | 124.29.19 | 100 |
| 3.5 | 13 | 117.35.13 | 100 | | | 124.35.13 | 100 |
| | 16 | 117.35.16 | 100 | 137.35.16 | 100 | | |
| | 19 | 117.35.19 | 100 | | | 124.35.19 | 100 |
| | 25 | | | 137.35.25 | 100 | 124.35.25 | 100 |
| | 32 | | | | | | |
| 3.9 | 13 | | | | | | |
| | 19 | | | 137.39.19 | 100 | | |
| | 22 | | | 137.39.22 | 100 | | |
| | 25 | | | 137.39.25 | 100 | | |
| 4.2 | 9.5 | | | | | 124.42.95 | 100 |
| | 13 | 117.42.13 | 100 | 137.42.13 | 100 | 124.42.13 | 100 |
| | 16 | 117.42.16 | 100 | | | | |
| | 19 | 117.42.19 | 100 | 137.42.19 | 100 | 124.42.19 | 100 |
| | 22 | | | 137.42.22 | 100 | | |
| | 25 | 117.42.25 | 100 | 137.42.25 | 100 | 124.42.25 | 100 |
| | 32 | | | 137.42.32 | 50 | 124.42.32 | 100 |
| | 38 | 117.42.38 | 50 | | | 124.42.38 | 100 |
| 50 | 117.42.50 | 50 | | | 124.42.50 | 100 | |
| 4.8 | 13 | | | | | 124.48.13 | 100 |
| | 16 | 117.48.16 | 100 | | | | |
| | 19 | 117.48.19 | 100 | 137.48.19 | 50 | 124.48.19 | 100 |
| | 22 | 117.48.22 | 50 | | | | |
| | 25 | 117.48.25 | 50 | 137.48.25 | 50 | 124.48.25 | 100 |
| | 32 | 117.48.32 | 50 | | | 124.48.32 | 50 |
| | 38 | 117.48.38 | 50 | | | 124.48.38 | 50 |
| | 50 | 117.48.50 | 50 | | | 124.48.50 | 50 |
| 5.5 | 16 | | | 137.55.16 | 50 | | |
| | 19 | 117.55.19 | 50 | | | 124.55.19 | 100 |
| | 25 | | | 137.55.25 | 50 | 124.55.25 | 50 |
| | 32 | | | | | 124.55.32 | 50 |
| | 38 | | | | | 124.55.38 | 50 |
| 50 | | | | | 124.55.50 | 50 | |

METRIC HEX HEAD SHEET METAL (TAPPING) SCREWS



DIN 7976 (ISO1479)

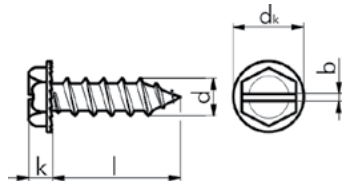
Steel - Clear Zinc Plated (A2K)

| Diameter | 4.2 | 4.8 | 5.5 | 6.3 | 8.0 |
|---------------------|------|------|------|-------|-------|
| Head height k in mm | 2.8 | 3.0 | 4.0 | 4.8 | 5.8 |
| e in mm | 7.59 | 8.71 | 8.71 | 10.95 | 14.26 |
| s in mm | 7 | 8 | 8 | 10 | 13 |

| Dia d in mm | Length (l) mm | Steel, Clear Zinc | P. Qty. |
|-------------|---------------|-------------------|---------|
| 4.2 | 16 | 114.42.16 | 100 |
| | 22 | 114.42.22 | |
| 4.8 | 13 | 114.48.13 | |
| | 16 | 114.48.16 | |
| | 25 | 114.48.25 | |
| 5.5 | 13 | 114.55.13 | 50 |
| | 25 | 114.55.25 | |

| Dia d in mm | Length (l) mm | Steel, Clear Zinc | P. Qty. |
|-------------|---------------|-------------------|---------|
| 6.3 | 13 | 114.63.13 | 50 |
| | 16 | 114.63.16 | |
| | 22 | 114.63.22 | |
| | 25 | 114.63.25 | |
| | 32 | 114.63.32 | |
| 8.0 | 38 | 114.63.38 | 50 |
| | 19 | 114.8..19 | |
| | 25 | 114.8..25 | |

METRIC HEX HEAD SLOTTED SHEET METAL (TAPPING) SCREW



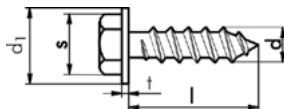
Slotted hex head washer
Steel, Clear Zinc Plated (A2K)

- Pressed-on washer and locking teeth.
- For metal sheets up to 1 mm thick.
- No pre-drilling necessary, as the screw lightly spot-drills the metal and pulls itself in automatically.
- Secure tightening of connection is guaranteed, as the screw forms a rim hole in the sheet upon entry.

| | |
|---------------------|------|
| Head dia. dk in mm | 10 |
| Head height k in mm | 2.6 |
| b in mm | 1.3 |
| Drive | 1/4" |

| Dia in mm (d) | Length in mm (l) | Steel Clear Zinc | P. Qty. |
|---------------|------------------|------------------|---------|
| 4.8 | 13 | 130.48.13 | 100 |
| | 19 | 130.48.19 | 100 |

METRIC HEX HEAD SHEET METAL (TAPPING) SCREWS



DIN 7976

Hex head • Captive Washer
Steel • Clear Zinc Plated (A2K)



| Diameter | | 4.8 | 5.5 | 6.3 | 8.0 |
|----------------|----------|-----|-----|--------|-----|
| s in mm | | 8 | 8 | 10 | 13 |
| Captive washer | d1 in mm | 15 | 15 | 18/22* | 21 |
| | t in mm | 1.6 | 1.6 | 1.6 | 2.0 |

| Nominal dia d in mm | Length (l) mm | Steel, Clear Zinc | P. Qty. |
|---------------------|---------------|-------------------|---------|
| 4.8 | 13 | 129.48.13 | 50 |
| | 16 | 129.48.16 | 50 |
| | 19 | 129.48.19 | 50 |
| 5.5 | 13 | 129.55.13 | 50 |
| | 16 | 129.55.16 | 50 |
| 6.3 | 16 | 129.63.16 | 50 |
| | 16 (*d1: 22) | 129.65.16 | 50 |
| | 20 | 129.65.20 | 50 |
| 8.0 | 19 | 129.8..19 | 50 |

Metric Hexagon Head Self-Tapping Screw Assortment

Art. No. **964.129**
Contents: 890 pieces
16 assorted sizes, 4.8 - 8mm.

ASSORTMENTS



PH Zinc Tapping Screw Assortment

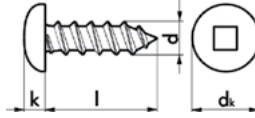
Art. No. **965.115**
Contents: 1210 pieces
16 assorted sizes: 3.5 mm - 6.3 mm.



PH Pan Head Zinc Tapping Screw Assortment

Art. No. **964.115**
Contents: 1600 pieces
16 assorted sizes: 3.5 mm - 4.8 mm.

STANDARD PAN HEAD SQUARE SHEET METAL (TAPPING) SCREWS



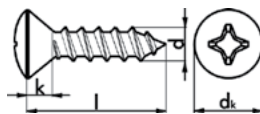
Type A
Steel • Clear Zinc Plated
Stainless Steel 18.8

| Diameter | #6 | #8 | #10 | #12 | #14 |
|------------------|-------|-------|-------|-------|-------|
| Head Diameter dk | 0.263 | 0.314 | 0.365 | 0.416 | 0.483 |
| Head Height k | 0.077 | 0.092 | 0.105 | 0.119 | 0.137 |
| Square Drive | 1 | 2 | 2 | 3 | 3 |

| Dia d in inches | Length in inches (l) | Clear zinc | P. Qty. | 18-8 Stainless | P. Qty. |
|-----------------|----------------------|-------------------|---------|-------------------|---------|
| #6 | 3/8 | 102.6..38 | 300 | 121.6..38 | 100 |
| | 1/2 | 102.6..12 | 100 | 121.6..12 | 100 |
| | 5/8 | 102.6..58 | 300 | | |
| | 3/4 | 102.6..34 | 100 | 121.6..34 | 100 |
| | 1 | 102.6..1 | 100 | 121.6..1 | 100 |
| | 1-1/4 | 102.6..114 | 100 | | |
| | 1-1/2 | 102.6..112 | 100 | | |
| #8 | 3/8 | 102.8..38 | 300 | 121.8..38 | 100 |
| | 1/2 | 102.8..12 | 100 | 121.8..12 | 100 |
| | 5/8 | 102.8..58 | 100 | | |
| | 3/4 | 102.8..34 | 100 | 121.8..34 | 100 |
| | 1 | 102.8..1 | 100 | 121.8..1 | 100 |
| | 1-1/4 | 102.8..114 | 100 | | |
| | 1-1/2 | 102.8..112 | 100 | | |
| | 2 | 102.8..2 | 100 | | |
| 2-1/2 | 102.8..212 | 50 | | | |
| #10 | 1/2 | 102.10.12 | 100 | 121.10.12 | 100 |
| | 5/8 | 102.10.58 | 100 | | |
| | 3/4 | 102.10.34 | 100 | 121.10.34 | 100 |
| | 1 | 102.10.1 | 100 | 121.10.1 | 100 |
| | 1-1/4 | 102.10.114 | 100 | | |
| | 1-1/2 | 102.10.112 | 100 | 121.10.112 | 100 |
| | 2 | 102.10.2 | 100 | | |
| 2-1/2 | 102.10.212 | 50 | | | |

| Dia d in inches | Length in inches (l) | Clear zinc | P. Qty. | 18-8 Stainless | P. Qty. |
|-----------------|----------------------|-------------------|---------|-------------------|---------|
| #12 | 1/2 | 102.12.12 | 100 | 121.12.12 | 100 |
| | 3/4 | 102.12.34 | 100 | 121.12.34 | 100 |
| | 1 | 102.12.1 | 100 | 121.12.1 | 100 |
| | 1-1/4 | | 100 | | |
| | 1-1/2 | 102.12.112 | 100 | 121.12.112 | 100 |
| | 2 | 102.12.2 | 100 | | |
| #14 | 1/2 | | | 121.14.12 | 50 |
| | 5/8 | 102.14.58 | 200 | | |
| | 1 | 102.14.1 | 50 | 121.14.1 | 50 |
| | 3/4 | 102.14.34 | 50 | | |
| | 1-1/4 | | 50 | | |
| | 1-1/2 | 102.14.112 | 50 | 121.14.112 | 50 |
| 2 | 102.14.2 | 50 | | | |

STANDARD OVAL HEAD PH SHEET METAL (TAPPING) SCREWS

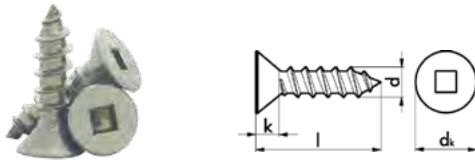


Raised Oval Countersunk Head
Type AB • Chrome Plated Steel
Type A • Stainless Steel 316

| Diameter | #6 | #8 | #10 | #12 | #14 |
|------------------|-------|-------|-------|-------|-------|
| Head Diameter dk | 0.279 | 0.332 | 0.385 | 0.438 | 0.507 |
| Head Height k | 0.083 | 0.100 | 0.116 | 0.132 | 0.153 |
| PH Drive | 2 | 2 | 2 | 3 | 3 |

| Dia. in inches (d) | Length in inches (l) | Chrome plated | P. Qty. | 316 SS | P. Qty. |
|--------------------|----------------------|-------------------|---------|-------------------|---------|
| #6 | 1 | | | 124.6..1 | 100 |
| #8 | 1/2 | | | 124.8..12 | 100 |
| | 3/4 | 120.8..34 | | | |
| | 1 | 120.8..1 | 50 | 124.8..1 | 50 |
| | 1-1/4 | 120.8..114 | | | |
| #10 | 1-1/2 | | | 124.8..112 | |
| | 1 | | | 124.10.1 | |
| | 1-1/2 | | | 124.10.112 | |
| | 2 | | | 124.10.2 | |
| #12 | 3 | | | 124.10.3 | |
| | 2 | | | 124.12.2 | |
| #14 | 2 | | | 124.14.2 | |
| | 2-1/2 | | | 124.14.212 | |

STANDARD FLAT HEAD SQUARE SHEET METAL (TAPPING) SCREWS



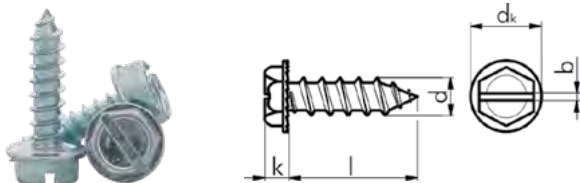
Type A
Stainless Steel 18.8

| Diameter | #6 | #8 | #10 | #12 | #14 |
|------------------|-------|-------|-------|-------|-------|
| Head Diameter dk | 0.279 | 0.332 | 0.385 | 0.438 | 0.507 |
| Head Height k | 0.083 | 0.100 | 0.116 | 0.132 | 0.153 |
| Square Drive | 1 | 2 | 2 | 3 | 3 |

| Dia. in inches (d) | Length in inches (l) | 18-8 SS | P. Qty. |
|--------------------|----------------------|------------------|---------|
| #6 | 1/2 | 125.6..12 | 100 |
| | 3/4 | 125.6..34 | |
| #8 | 1/2 | 125.8..12 | |
| | 3/4 | 125.8..34 | |
| | 1 | 125.8..1 | |

| Dia. in inches (d) | Length in inches (l) | 18-8 SS | P. Qty. |
|--------------------|----------------------|-------------------|---------|
| #10 | 3/4 | 125.10.34 | 100 |
| | 1 | 125.10.1 | |
| | 1-1/2 | 125.10.112 | |
| #12 | 1 | 125.12.1 | |
| | 1-1/2 | 125.12.112 | |
| #14 | 1-1/2 | 125.14.112 | |

STANDARD HEX HEAD SLOTTED SHEET METAL (TAPPING) SCREWS



Slotted • Hex washer head
Steel • Clear Zinc Plated

| Diameter | #8 | #10 | #12 | #14 |
|--------------------|-------|-------|-------|-------|
| Head diameter | 0.250 | 0.312 | 0.312 | 0.375 |
| Washer diameter dk | 0.335 | 0.399 | 0.415 | 0.500 |
| Head height k | 0.128 | 0.138 | 0.178 | 0.221 |
| Slot width b | 0.050 | 0.055 | 0.062 | 0.07 |

| Dia. in inches (d) | Length in inches (l) | Clear zinc | P. Qty. |
|--------------------|----------------------|-------------------|---------|
| #8 | 1/2 | 111.8..12 | 200 |
| | 5/8 | 111.8..58 | |
| | 3/4 | 111.8..34 | |
| | 1 | 111.8..1 | |
| #10 | 1-1/4 | 111.8..114 | |
| | 1/2 | 111.10.12 | |
| | 5/8 | 111.10.58 | |
| | 3/4 | 111.10.34 | |
| | 1 | 111.10.1 | |
| | 1-1/4 | 111.10.114 | |
| #12 | 1-1/2 | 111.10.112 | |
| | 1/2 | 111.12.12 | |
| | 3/4 | 111.12.34 | |
| | 1 | 111.12.1 | |
| #14 | 1-1/4 | 111.12.114 | |
| | 3/4 | 111.14.34 | |
| | 1 | 111.14.1 | |
| | 1-1/4 | 111.14.114 | |
| | 1-1/2 | 111.14.112 | |

ASSORTMENTS



Hex Head Sheet Metal (Tapping) Screw Assortment

Art. No. 965.111502

Slotted Hex Washer Head, Steel, zinc-plated
Contents: (500 pieces): 10 assorted sizes
Size range #8 - 3/8"



Pan Head Robertson Sheet Metal (Tapping) Screw Assortment

Art. No. 965.121

18.8 Stainless Steel
Contents (1300 Pieces): 16 assorted sizes, size range #6-#14

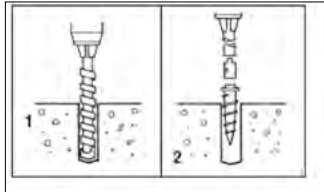


Pan Head Robertson® Sheet Metal (Tapping) Screw Assortment

Art. No. 965.102

Steel, zinc-plated Type 'A'
Contents (1250 Pieces): 16 assorted sizes, size range #6 - #14

CONCRETE SCREWS



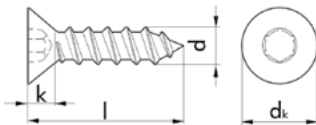
Note: Softer base materials require undersized bits for maximum performance. One (1) drill bit included in each pack.

Features:

- High strength steel.
- For use in all types of solid & hollow masonry, wood and stone.
- Fluorocarbon coating offers high resistance to corrosion. 1000 hrs in salt spray test.
- Cuts its own threads.
- Combo hex head version offers 3 drive methods.
- Fast, easy installation.

| Head Style | Anchor Size | Bit. Dia. & Length | Thickness of Fixture | Ultimate Tensile & Shear Loads in Lbs. Concrete Strength P.S.I. | | | | | Art. No. | P. Qty. |
|-----------------------------|--------------|--------------------|----------------------|---|---------------|-------|--------------|---------|------------|---------|
| | | | | 3000 P.S.I. | | | Hollow Block | | | |
| | | | | Embed. | Tension | Shear | Embed. | Tension | | |
| Combo Hex Head Washer Faced | 3/16 x 1-1/4 | 5/32 x 3-1/2 | 0 - 1/4 | 1" | 875 | 1170 | 1-1/4" | 430 | 904.H3-125 | 100 |
| | 3/16 x 1-3/4 | | 1/4 - 3/4 | | | | | | 904.H3-175 | |
| | 3/16 x 2-1/4 | 5/32 x 4-1/2 | 3/4 - 1-1/4 | | | | | | 904.H3-225 | |
| | 1/4 x 1-1/4 | 3/16 x 3-1/2 | 0 - 1/4 | | 1480 | 1568 | | 550 | 904.H4-125 | |
| | 1/4 x 1-3/4 | | 1/4 - 3/4 | | | | | | 904.H4-175 | |
| | 1/4 x 2-1/4 | | 3/4 - 1-1/4 | | | | | | 904.H4-225 | |
| | 1/4 x 2-3/4 | 3/16 x 4-1/2 | 1-1/4 - 1-3/4 | | 2-1/4 - 2-3/4 | 875 | | 1170 | 430 | |
| 1/4 x 3-3/4 | 3/16 x 5-1/2 | 1/4 - 3/4 | 904.H4-375 | | | | | | | |
| 3/16 x 1-3/4 | 5/32 x 3-1/2 | 1/4 - 3/4 | 904.P3-175 | | | | | | | |
| PH Flat | 3/16 x 2-1/4 | 5/32 x 4-1/2 | 3/4 - 1-1/4 | 1480 | 1568 | 550 | 904.P3-225 | | | |
| | 1/4 x 1-3/4 | 3/16 x 3-1/2 | 1/4 - 3/4 | | | | 904.P4-175 | | | |

METRIC ECOFAST ASSY FLAT HEAD ASSEMBLY SCREWS



Coarse thread • flat head • AW drive screws with nibs.

Applications

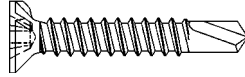
- For use in particle board, MDF, solid wood.
- Nibs allow easy, clean countersinking into melamine board.
- Assymetrical double thread pitch and lubricating coating reduce insertion time and effort by up to 50%.
- Thin shank and "nibbed" head reduce splitting
- Sharp (20 °) tip allows for precise positioning and easy starting.
- Up to 40% higher strip-out power than conventional particle board screws.
- Case hardened and zinc plated.



| Dia. in mm (d) | Length in mm (l) | Thread length | Head dia.(dk) | Bit | Steel, Clear Zinc | P. Qty. |
|----------------|------------------|---------------|---------------|------|-------------------|---------|
| M5 | 50 | 30 | 10.0 | AW20 | 158.15.50 | 250 |
| | 60 | 37 | | | 158.15.60 | 250 |
| | 70 | 42 | | | 158.15.70 | 200 |
| | 80 | 52 | | | 158.15.80 | 100 |
| | 100 | 52 | | | 158.15.100 | 100 |
| M6 | 80 | 50 | 12.0 | AW30 | 158.16.80 | 100 |

- 1/4" hex insert bit combines all the advantages and eliminates the disadvantages of PH, Torx® or Pozidriv bits.
- Offers better torque transfer due to the largest possible surface contact points.
- Combined cylindrical and conical shape creates optimum centering of the bit in the screw head.
- No cam out prevents damage to the screw head and the inability to drive into difficult surfaces.
- Bit "Nests" in the screw head preventing wobble.
- Longer bit life.

FEBOS® WINDOW INSTALLATION SCREWS



Steel • Clear Zinc Plated

Countersunk (flat) milling head

Tapping window installation screw for use in plastic window construction. For the connection of plastic profiles with metal reinforcement (up to 2 mm) and for securing fittings on profiles with metal stiffening (up to 2 mm).

Drive: PH 2

| Dia. in mm | Length in mm | Art. No. | P. Qty. |
|------------|--------------|------------------|---------|
| 3.9 | 13 | 207.03913 | 1000 |
| | 16 | 207.03916 | |
| | 25 | 207.03925 | |

FBS WINDOW INSTALLATION SCREWS



Self-tapping window installation screws for securing in fittings on PVC profiles.

FBS 1

Steel (thick-film passivation) • Deltacoll-Coated

Steel • Yellow Passivated (A3L)

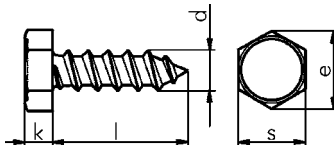
- Drive: PH 2.
- Special thread with needle tip.
- Head dia. 7.0 mm.

Advantages:

- Increased corrosion protection due to thick-film passivation and Deltacoll-coating.
- Thermal stability of corrosion protection layer 150°C (302°F).

| Dia. in mm | Length in mm (l) | Galv. Steel, Deltacoll-coated | P. Qty. | Galv. Steel, yellow passiv. | P. Qty. |
|------------|------------------|-------------------------------|---------|-----------------------------|---------|
| 4.1 | 19 | 185.244119 | 1000 | 185.214119 | 1000 |
| | 22 | 185.244125 | 1000 | 185.214122 | 500 |
| | 25 | | | 185.214125 | 1000 |
| | 30 | | | 185.214130 | 1000 |

STANDARD HEX HEAD LAG SCREWS



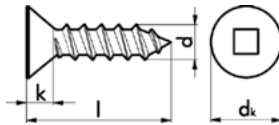
Steel • Clear Zinc Plated
Wood Applications

| Diameter | 5/16 | 3/8 |
|-------------|-------|-------|
| Hex-Drive s | 1/2 | 9/16 |
| e max. | 0.577 | 0.650 |
| k | 7/32 | 1/4 |

| Dia. in inches (d) | Length in inches (l) | Clear zinc | P. Qty. |
|--------------------|----------------------|--------------------|---------|
| 1/4 | 1-1/2 | 192.14.112 | 100 |
| | 2 | 192.14.2 | 100 |
| | 3 | 192.14.3 | 100 |
| 5/16 | 1 | 192.516.1 | 50 |
| | 1-1/2 | 192.516.112 | 100 |
| | 2 | 192.516.2 | 100 |
| | 2-1/2 | 192.516.212 | 25 |
| | 4 | 192.516.4 | 25 |
| | 5 | 192.516.5 | 25 |
| 6 | 192.516.6 | 25 | |

| Dia. in inches (d) | Length in inches (l) | Clear zinc | P. Qty. |
|--------------------|----------------------|-------------------|---------|
| 3/8 | 1-1/2 | 192.38.112 | 50 |
| | 2 | 192.38.2 | 100 |
| | 2-1/2 | 192.38.212 | 50 |
| | 3 | 192.38.3 | 100 |
| | 4 | 192.38.4 | 25 |
| | 6 | 192.38.6 | 25 |

STANDARD FLAT HEAD SQUARE WOOD SCREWS



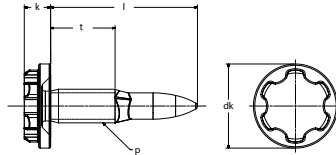
Steel • Clear Zinc Plated

| Diameter | #6 | #8 | #10 | #12 |
|------------------|-------|-------|-------|-------|
| Head Diameter dk | 0.279 | 0.332 | 0.385 | 0.438 |
| Head height k | 0.083 | 0.100 | 0.116 | 0.132 |

| Dia. in inches (d) | Length in inches (l) | Clear zinc | P. Qty. |
|--------------------|----------------------|-------------------|---------|
| #6 | 5/8 | 103.6..58 | 150 |
| | 3/4 | 103.6.34 | 150 |
| | 1 | 103.6.1 | 150 |
| | 1-1/4 | 103.6.114 | 150 |
| | 1-1/2 | 103.6.112 | 150 |
| #8 | 1/2 | 103.8.12 | 150 |
| | 5/8 | 103.8.58 | 150 |
| | 3/4 | 103.8.34 | 150 |
| | 1 | 103.8..1 | 150 |
| | 1-1/4 | 103.8..114 | 150 |
| | 1-1/2 | 103.8..112 | 150 |
| | 1-3/4 | 103.8..134 | 150 |
| | 2 | 103.8..2 | 150 |
| | 2-1/2 | 103.8.212 | 150 |
| | 3 | 103.8.3 | 150 |
| | 3-1/2 | 103.8.312 | 150 |
| | 4 | 103.8.4 | 100 |

| Dia. in inches (d) | Length in inches (l) | Clear zinc | P. Qty. |
|--------------------|----------------------|-------------------|---------|
| #10 | 3/4 | 103.10.34 | 150 |
| | 1 | 103.10.1 | 150 |
| | 1-1/4 | 103.10.114 | 150 |
| | 1-1/2 | 103.10.112 | 150 |
| | 1-3/4 | 103.10.134 | 150 |
| | 2 | 103.10.2 | 150 |
| | 2-1/4 | 103.10.214 | 100 |
| | 2-1/2 | 103.10.212 | 150 |
| | 3 | 103.10.3 | 150 |
| | 3-1/2 | 103.10.312 | 150 |
| #12 | 1 | 103.12.1 | 200 |
| | 3/4 | 103.12.34 | 150 |
| | 1-1/4 | 103.12.114 | 500 |
| | 1-1/2 | 103.12.112 | 150 |
| | 2 | 103.12.2 | 150 |
| #14 | 3 | 103.12.3 | 100 |
| | 1 | 103.14.1 | 100 |
| | 1-1/4 | 103.14.114 | 100 |
| | 1-1/2 | 103.14.112 | 100 |
| | 2 | 103.14.2 | 100 |
| 3 | 103.14.3 | 100 | |

FLOWFORM® SCREWS



Flowform® Screw 5mm

Material:

- GM6171M or equivalent case hardened
- Surface hardness min. 500 HV 0.3
- Core Hardness 320 - 400 HV 10

Finish:

- GMW14100 with top coat lubricant
- 480 hrs. SSN according to DIN EN ISO 9227

The Flowform® screw is an innovative alternative to conventional methods of joining sheet metals together. The fastener is based on flow-drilling, a process for producing threaded or unthreaded holes in metal parts. The sharp pointed screw is spun at high RPMs. As the spinning tip comes into contact with the metal, heat is generated, making the material soft and malleable enough to be formed and perforated. The heated metal forms a deep, solid threaded bond around the screw.

Features:

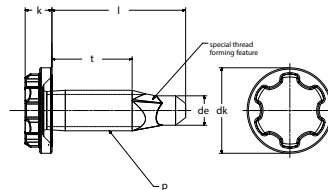
- Heat treated 10.9
- 6 point Torx head
- Polygonal body with an unthreaded sharp conical point
- Based on Taptite 2000® - technology known as flow-drilling

Benefits:

- Polygonal body increases holding strength while reducing material displacement
- Can be installed with or without a punched or drilled hole
- Easier to install
- More economical than spot-welding
- Does not require a c-frame or counter nut

Areas of application:

- When the assembler/technician has access to one side of the component only
- **5mm only** - to replace existing 5mm Flowform® screws or when replacing panels with existing un-stripped threaded holes that have been created from existing Flowform® screws
- **6mm only** - aluminum panels with existing threaded holes created by a Flowform® screw but is now stripped, or the original Flowform® screw has been pulled through/lost



Flowform® Screw 6mm

Material:

- GMW25 110.91

Finish:

- GMW14100 with top coat lubricant
- 480 hrs. SSN according to DIN EN ISO 9227

Note: Acceptable RPM - 2500; preferred RPM - 5000
Maximum thickness of the aluminum sheets - 6.00mm

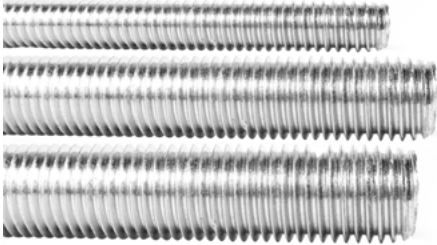
Vehicle applications:

- GM Opel
- Jaguar XK and X150
- Lotus - aluminum chassis in the Proton
- Volkswagen - for the cover of the entry step on the Cross Touran
- ThyssenKrupp, for body panels on the Lamborghini
- Fehrer Automotive and Alcoa - for body panels
- **Ford F-150 - 2015 models**
- GM Omega - Fall 2015

| Dia.-Thread Pitch (p) | Min. - Max. Head Dia. (dk) | Min. - Max. Head Height (k) | Min. - Max. Length (l) | Min. - Max. Threaded Length (t) | Min. - Max. Tip Dia. (de) | Art. No. | P. Qty. |
|-----------------------|----------------------------|-----------------------------|------------------------|---------------------------------|---------------------------|------------------|---------|
| M5 x 0.8 | 12.57 - 13.00 | 3.8 - 4.2 | 22.00 - 22.65 | 9.35 - 10.25 | - | 050.5..22 | 50 |
| M6 x 1.0 | | | 19.35 - 20.65 | 12.00 | 4.3 - 4.5 | 050.6..20 | |

Note: Bit holder for Flowform® Screw is Extended Length Nutsetter **Art. No. 614.176726**

METRIC THREADED ROD



DIN 975

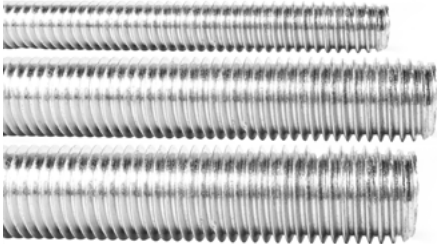
Material: Steel
Grade: 4.8
Clear zinc

DIN 976

Material: Steel
Grade: 8.8
Clear zinc

| Dia - Thread pitch | Length | Art. No. | P.Qty. |
|--------------------|--------|---------------|--------|
| M6-1 | 1 m | 957.6 | 5 |
| M8-1.25 | | 957.8 | |
| M10-1.5 | | 957.10 | |

STANDARD THREADED ROD

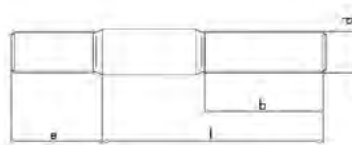


Mild Steel • Grade 2
High Alloy Steel • B7
Stainless Steel • 316
Stainless Steel • 18-8

| | Prefix 958 | Prefix 959 | Prefix 960 | Prefix 963 |
|----------|------------|------------------|-----------------|-----------------|
| Material | Mild Steel | High alloy Steel | Stainless Steel | Stainless Steel |
| Grade | Grade 2 | B7 | 316 | 18-8 |
| Finish | Clear zinc | Yellow zinc | | |
| Length | 36" | 36" | 36" | 36" |

| Dia-Thread Pitch | Art. No. | P. Qty. | Art. No. | P. Qty. | Art. No. | P. Qty. | Art. No. | P. Qty. |
|------------------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|
| 1/4-20 | 958.14 | 10 | 959.14 | 5 | 960.14 | 3 | 963.14 | 5 |
| 5/16-18 | 958.516 | | 959.516 | | 960.516 | | 963.516 | |
| 3/8-16 | 958.38 | 3 | 959.38 | 3 | 960.38 | 1 | 963.38 | 3 |
| 7/16-14 | 958.716 | | 959.716 | | 960.716 | | 963.716 | |
| 1/2-13 | 958.12 | 5 | 959.12 | 5 | 960.12 | 1 | 963.12 | 1 |
| 5/8-11 | 958.58 | | 959.58 | | 960.58 | | 963.58 | |
| 3/4-10 | 958.34 | 3 | 959.34 | 1 | | | | |
| 1-8 | 958.1 | 2 | 959.1 | | | | | |

STUDS - DIN 939



Stud

- DIN 939
- 5.8 Bare

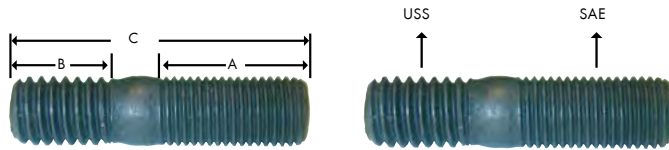
| Thread ø d | M6 | M8 | M10 | M12 | M16 |
|------------|-----|----|-----|-----|-----|
| b* mm | 18 | 22 | 26 | 30 | 38 |
| e mm | 7.5 | 10 | 12 | 15 | 20 |

* for length ≤ 125 mm

| Thread dia (d) | Length (l) mm | Art. No. | P. Qty |
|----------------|---------------|------------------|--------|
| M6 | 20mm | 250.6..20 | 50 |
| | 25mm | 250.6..25 | |
| M8 | 20mm | 250.8..20 | 25 |
| | 25mm | 250.8..25 | |
| | 35mm | 250.8..35 | |
| | 40mm | 250.8..40 | |
| M10 | 45mm | 250.8..45 | 25 |
| | 20mm | 250.10.20 | |
| | 25mm | 250.10.25 | |
| | 30mm | 250.10.30 | |

| Thread dia (d) | Length (l) mm | Art. No. | P. Qty |
|----------------|---------------|------------------|--------|
| M10 | 35mm | 250.10.35 | 25 |
| | 40mm | 250.10.40 | |
| | 45mm | 250.10.45 | |
| | 50mm | 250.10.50 | |
| | 60mm | 250.10.60 | |
| | 65mm | 250.10.65 | |
| | 70mm | 250.10.70 | |
| M12 | 30mm | 250.12.30 | 25 |
| | 50mm | 250.12.50 | |
| | 70mm | 250.12.70 | |

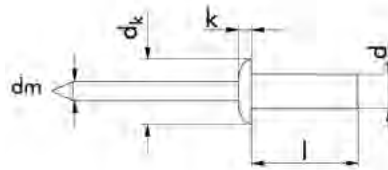
CYLINDER HEAD & MANIFOLD STUDS



Grade 8 • Med Carbon • Heat Treated Alloy

| A (Dia & Length) | B (Dia & Length) | C (overall Length) | Art. No. | Qty |
|------------------------|------------------------|--------------------|--------------------|-----|
| 5/16" - 24 SAE x 5/8" | 5/16" - 24 SAE x 5/8" | 1-1/2" | 252.516.112 | 10 |
| 5/16" - 24 SAE x 7/8" | 5/16" - 18 USS x 9/16" | 1-3/4" | 252.516.134 | |
| 5/16" - 24 SAE x 1" | | 2" | 252.516.2 | |
| 3/8" - 24 SAE x 3/4" | 3/8" - 16 USS x 1/2" | 1-1/2" | 252.38.112 | |
| 3/8" - 16 USS x 1-1/8" | | 1-3/4" | 252.38.134 | |
| 3/8" - 16 USS x 1" | 3/8" - 16 USS x 5/8" | 2" | 252.38.2 | |
| 3/8" - 16 USS x 1/2" | 3/8" - 16 USS x 1-7/8" | 2-1/8" | 252.38.218 | |
| 1/2" - 20 SAE x 15/16" | 1/2" - 13 USS x 13/16" | 2-1/2" | 252.38.212 | |
| 1/2" - 20 SAE x 2" | 1/2" - 13 USS x 3/4" | 2" | 252.12.2 | |
| | | 3" | 252.12.3 | |

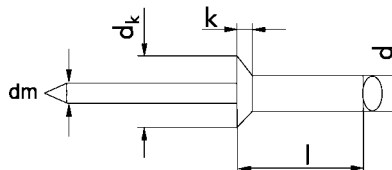
CLOSED END RIVETS



Domed head
Rivet: Aluminum
Mandrel: Steel

| Dia. (d) x length (l) | Drilling hole dia. | Clamping range | Flange dia. dk | Head height k | Mandrel dm | Typical shear strength | Typical tensile strength | Art. No. | P. Qty. |
|-----------------------|--------------------|----------------|----------------|---------------|------------|------------------------|--------------------------|-------------------|---------|
| 1/4 x 0.570 | #20 | 0.126 - 0.250 | 0.500 | 0.098 | 0.142 | 900 lbs | 1100 lbs | 941.14.12 | 100 |
| 1/4 x 0.695 | | 0.251 - 0.375 | | | | | | 941.14.38 | |
| 3/16 x 0.730 | #11 | 0.376 - 0.500 | 0.375 | 0.080 | 0.109 | 500 lbs | 960 lbs | 941.316.12 | |
| 3/16 x 0.475 | | 0.126 - 0.250 | | | | | | 941.316.14 | |
| 3/16 x 0.595 | | 0.251 - 0.375 | | | | | | 941.316.38 | |

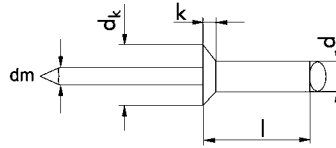
BLIND RIVETS



Domed head
Rivet: 302-304 Stainless Steel
Mandrel: 302-304 Stainless Steel

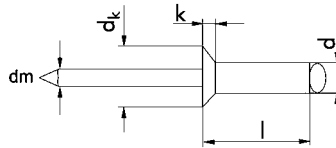
| Dia. (d) x length (l) | Drilling hole dia. | Clamping range | Flange dia. dk | Head height k | Mandrel dm | Typical shear strength | Typical tensile strength | Art. No. | P. Qty. |
|-----------------------|--------------------|----------------|----------------|---------------|------------|------------------------|--------------------------|-------------------|---------|
| 1/8 x 0.275 | #30 | 0.063 - 0.125 | 0.250 | 0.040 | 0.076 | 550 lbs | 700 lbs | 942.18.18 | 100 |
| 1/8 x 0.337 | | 0.126 - 0.187 | | | | | | 942.18.316 | |
| 1/8 x 0.400 | | 0.188 - 0.250 | | | | | | 942.18.14 | |
| 1/8 x 0.525 | | 0.313 - 0.375 | | | | | | 942.18.38 | |
| 3/16 x 0.450 | #11 | 0.188 - 0.250 | 0.375 | 0.060 | 0.114 | 1000 lbs | 1375 lbs | 942.316.14 | |
| 3/16 x 0.575 | | 0.251 - 0.375 | | | | | | 942.316.38 | |
| 3/16 x 0.700 | | 0.376 - 0.500 | | | | | | 942.316.12 | |

BLIND RIVETS



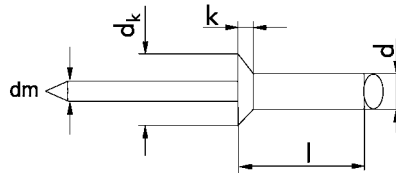
120° Flush countersunk
Rivet: Aluminum
Mandrel: Carbon Steel

| Dia. (d) x length (l) | Drilling hole dia. | Clamping range | Flange dia. dk | Head height k | Mandrel dm | Typical shear strength | Typical tensile strength | Art. No. | P. Qty. |
|-----------------------|--------------------|----------------|----------------|---------------|------------|------------------------|--------------------------|------------|---------|
| 1/8 x 0.337 | #30 | 0.126 - 0.187 | 0.220 | 0.065 | 0.076 | 210 lbs | 325 lbs | 937.18.316 | 100 |
| 1/8 x 0.400 | | 0.188 - 0.250 | | | | | | 937.18.14 | |



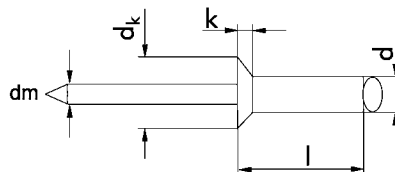
Large flange
Rivet: Carbon Steel
Mandrel: Carbon Steel

| Dia. (d) x length (l) | Drilling hole dia. | Clamping range | Flange dia. dk | Head height k | Mandrel dm | Typical shear strength | Typical tensile strength | Art. No. | P. Qty. |
|-----------------------|--------------------|----------------|----------------|---------------|------------|------------------------|--------------------------|------------|---------|
| 1/8 x 0.400 | #30 | 0.188 - 0.250 | 0.375 | 0.065 | 0.076 | 295 lbs | 425 lbs | 934.18.14 | 100 |
| 3/16 x 0.450 | #11 | 0.020 - 0.250 | 0.625 | 0.092 | 0.114 | 590 lbs | 815 lbs | 934.316.14 | |
| 3/16 x 0.575 | | 0.251 - 0.375 | | | | | | 934.316.38 | |
| 3/16 x 0.700 | | 0.376 - 0.500 | | | | | | 934.316.12 | |



Domed head
Rivet: Steel
Mandrel: Steel with rust inhibitor sealer

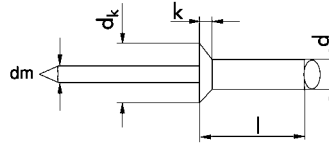
| Dia. (d) x length (l) | Drilling hole dia. | Clamping range | Flange dia. dk | Head height k | Mandrel dm | Typical shear strength | Typical tensile strength | Art. No. | P. Qty. |
|-----------------------|--------------------|----------------|----------------|---------------|------------|------------------------|--------------------------|------------|---------|
| 1/8 x 0.275 | #30 | 0.063 - 0.125 | 0.250 | 0.040 | 0.076 | 295 lbs | 425 lbs | 932.18.18 | 100 |
| 1/8 x 0.337 | | 0.126 - 0.187 | | | | | | 932.18.316 | |
| 1/8 x 0.400 | | 0.188 - 0.250 | | | | | | 932.18.14 | |
| 1/8 x 0.462 | | 0.251 - 0.312 | | | | | | 932.18.516 | |
| 1/8 x 0.525 | | 0.313 - 0.375 | | | | | | 932.18.38 | |
| 3/16 x 0.450 | #11 | 0.188 - 0.250 | 0.375 | 0.060 | 0.114 | 590 lbs | 815 lbs | 932.316.14 | |
| 3/16 x 0.575 | | 0.251 - 0.375 | | | | | | 932.316.38 | |
| 3/16 x 0.700 | | 0.376 - 0.500 | | | | | | 932.316.12 | |
| 1/4 x 0.625 | F | 0.251 - 0.375 | 0.500 | 0.080 | 0.151 | 1245 lbs | 1505 lbs | 932.14.38 | |
| 1/4 x 0.750 | | 0.376 - 0.500 | | | | | | 932.14.12 | |
| 1/4 x 0.875 | | 0.501 - 0.625 | | | | | | 932.14.58 | |
| 1/4 x 1.000 | | 0.626 - 0.750 | | | | | | 932.14.34 | |



Domed head
Rivet: Aluminum
Mandrel: Aluminum

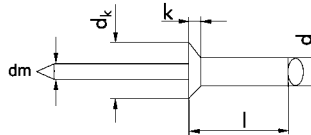
| Dia. (d) x length (l) | Drilling hole dia. | Clamping range | Flange dia. dk | Head height k | Mandrel dm | Typical shear strength | Typical tensile strength | Art. No. | P. Qty. |
|-----------------------|--------------------|----------------|----------------|---------------|------------|------------------------|--------------------------|------------|---------|
| 1/8 x 0.275 | #30 | 0.063 - 0.125 | 0.250 | 0.040 | 0.076 | 210 lbs | 325 lbs | 939.18.18 | 100 |
| 1/8 x 0.525 | | 0.313 - 0.375 | | | | | | 939.18.38 | |
| 1/8 x 0.650 | | 0.376 - 0.500 | | | | | | 939.18.12 | |
| 5/32 x 0.425 | #20 | 0.188 - 0.250 | 0.312 | 0.050 | 0.095 | 340 lbs | 490 lbs | 939.532.14 | |
| 3/16 x 0.325 | #11 | 0.020 - 0.125 | 0.375 | 0.060 | 0.114 | 445 lbs | 720 lbs | 939.316.18 | |
| 3/16 x 0.450 | | 0.188 - 0.250 | | | | | | 939.316.14 | |
| 3/16 x 0.575 | | 0.251 - 0.375 | | | | | | 939.316.38 | |
| 3/16 x 0.700 | | 0.376 - 0.500 | | | | | | 939.316.12 | |

BLIND RIVETS



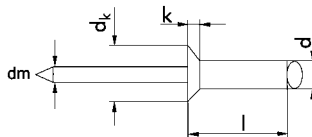
Large Flange
Rivet: Aluminum
Mandrel: Aluminum

| Dia. (d) x length (l) | Drilling hole dia. | Clamping range | Flange dia. dk | Head height k | Mandrel dm | Typical shear strength | Typical tensile strength | Art. No. | P. Qty. |
|-----------------------|--------------------|-----------------|----------------|---------------|------------|------------------------|--------------------------|-----------|---------|
| 1/8" x 0.275" | #30 | 0.02" - 0.125" | 0.375" | 0.065" | 0.076" | 155 lbs | 235 lbs | 940.18.18 | 100 |
| 1/8" x 0.4" | | 0.188" - 0.25" | | | | | | 940.18.14 | |
| 3/16" x 0.575" | #11 | 0.251" - 0.375" | 0.625" | 0.092" | 315 lbs | 500 lbs | 940.316.38 | | |
| 3/16" x 0.95" | | 0.626" - 0.75" | | | | | 940.316.34 | | |



Domed head
Rivet: Aluminum
Mandrel: Carbon Steel

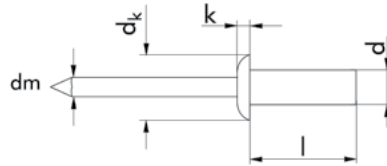
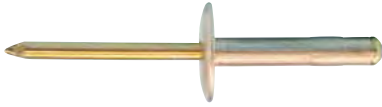
| Dia. (d) x length (l) | Drilling hole dia. | Clamping range | Flange dia. dk | Head height k | Mandrel dm | Typical shear strength | Typical tensile strength | Art. No. | P. Qty. |
|-----------------------|--------------------|-----------------|----------------|---------------|------------|------------------------|--------------------------|------------|---------|
| 1/8" x 0.275" | #30 | 0.063" - 0.125" | 0.25" | 0.04" | 0.076" | 210 lbs | 325 lbs | 936.18.18 | 100 |
| 1/8" x 0.4" | | 0.188" - 0.25" | | | | | | 936.18.14 | |
| 1/8" x 0.462" | | 0.251" - 0.312" | | | | | | 936.18.516 | |
| 1/8" x 0.525" | | 0.313" - 0.375" | | | | | | 936.18.38 | |
| 1/8" x 0.65" | | 0.376" - 0.5" | | | | | | 936.18.12 | |
| 5/32" x 0.55" | #20 | 0.251" - 0.375" | 0.312" | 0.05" | 0.095" | 340 lbs | 490 lbs | 936.532.38 | |
| 3/16" x 0.45" | #11 | 0.188" - 0.250" | 0.375" | 0.06" | 0.114" | 445 lbs | 720 lbs | 936.316.14 | |
| 3/16" x 0.575" | | 0.251" - 0.375" | | | | | | 936.316.38 | |
| 3/16" x 0.7" | | 0.376" - 0.5" | | | | | | 936.316.12 | |
| 3/16" x 0.825" | | 0.501" - 0.625" | | | | | | 936.316.58 | |
| 3/16" x 0.95" | | 0.626" - 0.75" | | | | | | 936.316.34 | |



Large Flange
Rivet: Aluminum
Mandrel: Carbon Steel

| Dia. (d) x length (l) | Drilling hole dia. | Clamping range | Flange dia. dk | Head height k | Mandrel dm | Typical shear strength | Typical tensile strength | Art. No. | P. Qty. |
|-----------------------|--------------------|-----------------|----------------|---------------|------------|------------------------|--------------------------|-----------|---------|
| 1/8" x 0.4" | #30 | 0.188" - 0.25" | 0.375" | 0.065" | 0.076" | 210 lbs | 325 lbs | 938.18.14 | 100 |
| 3/16" x 0.45" | #11 | 0.02" - 0.25" | | | | | | 0.625" | 0.092" |
| 3/16" x 0.575" | | 0.251" - 0.375" | 938.316.38 | 100 | | | | | |
| 3/16" x 0.7" | | 0.376" - 0.5" | 938.316.12 | 100 | | | | | |
| 3/16" x 0.825" | | 0.501" - 0.625" | 938.316.58 | 100 | | | | | |
| 3/16" x 0.95" | | 0.626" - 0.75" | 938.316.34 | 100 | | | | | |
| 3/16" x 1.2" | | 0.876" - 1" | 938.316.1 | 100 | | | | | |

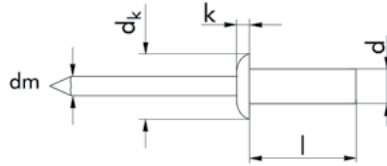
MULTIPLE GRIP RIVETS



Domed head
Rivet: 5052 Aluminum
Mandrel: Steel

| Dia. (d) x length (l) | Drilling hole dia. mm | Clamping range mm | Head dia dk in mm | Head height k in mm | Mandrel dm mm | Typical shear strength Kgf | Typical tensile strength Kgf | Art. No. | P. Qty. |
|-----------------------|-----------------------|-------------------|-------------------|---------------------|---------------|----------------------------|------------------------------|----------|---------|
| 4.8 x 10.3 | 4.9 | 1.6 - 6.4 | 9.8 | 1.45 | 2.9 | 159 | 240 | 945.110 | 100 |
| 4.8 x 15.1 | | 4.8 - 11.1 | | | | | | 945.111 | |
| 4.8 x 24.8 | | 12.7 - 19.8 | 15.85 | | | | | 945.114 | |

PIAS BLIND RIVETS



High quality rivets

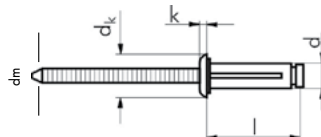
- Rivet sleeve: Aluminum Magnesium 2.5.
- Rivet body plating: steel, yellow chromed.
- Clean, solid formation of closing head.
- Reliable, patented locking action.
- Constant high tensile and shearing strength
- Large shank expansion.
- Maximum filling of borehole, even bore holes drilled too large.
- Cost reduction due to limited number of types.
- Inventory reduction.
- Fewer possibilities of processing errors.

| Dia. (d) x length (l) | Drilling hole dia. | Grip Range inches | Head dia. (dk) inches | Head height (k) inches | Typical shear strength lbs. | Typical tensile strength lbs. | Art. No. | P. Qty. |
|-----------------------|--------------------|-------------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------|---------|
| 1/8 x 5/16 | #30 | .019 - .188 | 1/4 | 1/32 | 169 | 269 | 915.53248 | 500 |
| 5/32 x 3/8 | #21 | .047 - .248 | 5/16 | 3/64 | 269 | 449 | 915.54064 | |
| 3/16 x 3/8 | #11 | .063 - .248 | 3/8 | 1/16 | 360 | 607 | 915.54864 | 250 |
| 3/16 x 5/8 | | .188 - .437 | 3/8 | | | | 915.548110 | |

Application:

- Borehole: secure riveting is assured, even with different materials and larger bore hole tolerances.
- Filling of borehole: the special deformation of the rivet head assures filling of various borehole diameters, providing tight riveting.
- Formation of closing head: a solid, splash water proof connection is achieved owing to the clean and secure formation of the rivet head.

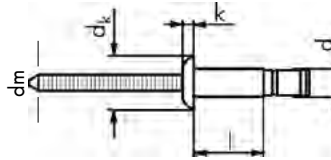
TLR RIVETS



Domed head
Rivet: Aluminum
Mandrel: Aluminum

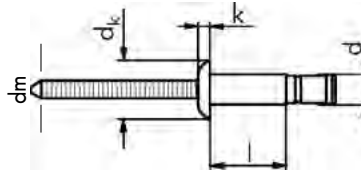
| Dia. (d) x length (l) | Drilling Hole dia. | Clamping Range | Head dia. (dk) | Head height (k) | Mandrel (dm) | Typical shear strength | Typical tensile strength | Art. No. | P. Qty. |
|-----------------------|--------------------|----------------|----------------|-----------------|--------------|------------------------|--------------------------|----------|---------|
| 0.187x0.770max | 0.209-0.221 | 0.062 - 0.250 | 0.446-0.492 | 0.099max | 0.110 | 675lbs | 450lbs | 945.102 | 100 |
| 0.187x1.020max | 0.209-0.222 | 0.312 - 0.500 | 0.446-0.493 | | | | | 945.103 | |
| 0.250x0.940max | 0.250-0.263 | 0.250 - 0.375 | 0.535-0.580 | 0.116max | 0.130 | 905lbs | 575lbs | 945.118 | |

MONOBOLTS



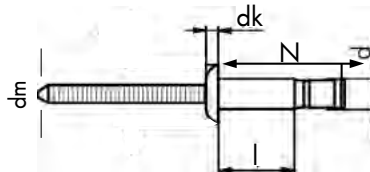
Domed head
Rivet: Steel
Mandrel: Steel

| Dia. (d) x length (l) | Drilling hole dia. mm | Clamping range mm | Head dia. (dk) in mm | Head height (k) in mm | Mandrel in mm (dm) | Typical shear strength lbs. | Typical tensile strength lbs. | Art. No. | P. Qty. |
|-----------------------|-----------------------|-------------------|----------------------|-----------------------|--------------------|-----------------------------|-------------------------------|----------|---------|
| 4.8 x 14.5 | 4.9 - 5.0 | 1.6 - 11.0 | 9.2 | 2.2 | 2.8 | 1377 | 1179 | 945.205 | 100 |
| 6.5 x 14.2 | 6.6 - 7.0 | 2.0 - 9.5 | 13 | 2.8 | 3.9 | 2755 | 2204 | 945.107 | |
| 6.5 x 20.5 | | 2.0 - 15.9 | 13.0 | | | | | 945.100 | |



Domed head
Rivet: aluminum
Mandrel: aluminum

| Dia. (d) x length (l) | Drilling hole dia. mm | Clamping range mm | Head dia. (dk) in mm | Head height (k) in mm | Mandrel in mm (dm) | Typical shear strength lbs. | Typical tensile strength lbs. | Art. No. | P. Qty. |
|-----------------------|-----------------------|-------------------|----------------------|-----------------------|--------------------|-----------------------------|-------------------------------|----------|---------|
| 4.8 x 10.5 | 4.9 | 1.6 - 6.9 | 9.2 | 2.2 | 2.8 | 645 | 579 | 945.101 | 100 |
| 6.5 x 14.2 | 6.6 - 7.0 | 2.0 - 9.5 | 13.0 | 2.8 | 3.9 | 1300 | 992 | 945.109 | |
| | | 2.0 - 15.9 | | | | | | 945.108 | |



Domed head
Rivet: Stainless Steel
Mandrel: Stainless Steel

| Dia. (d) x length (l) | Drilling hole dia. mm | Clamping range mm | Head dia. (dk) in mm | Blind Side Protrusion (N) in mm | Mandrel in mm (dm) | Typical shear strength lbs. | Typical tensile strength lbs. | Art. No. | P. Qty. |
|-----------------------|-----------------------|-------------------|----------------------|---------------------------------|--------------------|-----------------------------|-------------------------------|----------|---------|
| 4.8 x 10.5 | 4.9 - 5.1 | 1.63 - 6.86 | 2.2 | 19 | 2.9 | 652 | 520 | 945.113 | 100 |
| 6.5 x 14.2 | 6.6 - 7.0 | 2.0 - 9.5 | 2.8 | 25 | 3.9 | 2755 | 950 | 945.120 | |
| 6.5 x 20.5 | | 2.0 - 15.9 | | 36 | | | | 945.121 | |

ASSORTMENTS



Premium Industrial Steel/ Stainless Blind Rivet Assortment

Art. No. 965.932

Includes Domed and Flange
Contents (1000 pieces): 11 assorted sizes, size range 1/8"-3/16"

Premium Industrial Aluminum/ Steel Blind Rivet Assortment

Art. No. 965.936

Includes Domed and Flange
Contents (1600 pieces): 16 assorted sizes, size range 1/8"-3/16"

SPECIALTY BLIND RIVETS FOR ALUMINUM REPAIR



Specialty blind rivets for repairing of aluminum panels.

Benefits:

- Würth specialty aluminum rivets are non-oiled to prevent the contamination of aluminum panels during re-assembly

Areas of application:

- Flow Drill Screws (FDS) are to be replaced by blind rivets only. The original location of the FDS is used, but reamed out to 6.5mm (use Art. No. 624.65)
- Blind rivets are the preferred replacement for original self-piercing rivets (SPR)

Directions: Please follow manufacturer's instructions for locations and applications

| Size | Grip Range | Ford # | Art. No. | P. Qty |
|-------------|--------------|---------------|------------------|--------|
| 1/4" x 1/2" | .060 - .138 | W707638-S900C | 919.14060 | 25 |
| 1/4" x 1/2" | .110 - .189 | W702512-S900C | 919.14110 | 25 |
| 1/4" x 1/2" | .268 - .346 | W702554-S900C | 919.14268 | 25 |
| 1/4" x 1/2" | 3/16 - 17/64 | W708777-S900C | 919.14316 | 10 |

BRAZIER/BUCK RIVETS



Brazier Head Solid Rivets

| Dia. | (D) Shank | | (A) Head Dia. | | (H) Head Height | | L | 1100F (soft alu.) | 5052H32 (hard alu.) | 2117T4 (w/dot) (v. hard alu.) | P. Qty. |
|------|-----------|-------|---------------|-------|-----------------|-------|------|-------------------|---------------------|-------------------------------|---------|
| | Max. | Min. | Max. | Min. | Max. | Min. | | | | | |
| 3/16 | 0.191 | 0.182 | 0.479 | 0.459 | 0.101 | 0.087 | 3/8" | 945.316.38 | 946.316.38 | 950.316.38 | 1,000 |
| | | | | | | | 1/2" | 945.316.12 | 946.316.12 | - | |
| | | | | | | | 5/8" | 945.316.58 | 946.316.58 | - | |
| | | | | | | | 3/4" | 945.316.34 | 946.316.34 | - | |
| 1/4 | 0.253 | 0.244 | 0.640 | 0.610 | 0.133 | 0.117 | 1/2" | - | 946.14.12 | - | |
| | | | | | | | 5/8" | - | 946.14.58 | - | |
| | | | | | | | 3/4" | - | 946.14.34 | - | |

MODIFIED HEAD BRAZIER/BUCK RIVETS



Modified Brazier Head Solid Rivets

| Dia. | (D) Shank | | (A) Head Dia. | | (H) Head height | | L | 1100F (soft alu.) | 5052H32 (hard alu.) | 2117T4 (w/dot) (v. hard alu.) | P. Qty. |
|-------|-----------|--------|---------------|--------|-----------------|--------|------|----------------------|------------------------|----------------------------------|---------|
| | Max. | Min. | Max. | Min. | Max. | Min. | | | | | |
| 3/16" | 0.191" | 0.182" | 0.4" | 0.38" | 0.085" | 0.071" | 3/8" | - | - | 950.316.38 | 1,000 |
| | | | | | | | 1/2" | 947.316.12 | - | | |
| 1/4" | 0.253" | 0.244" | 0.483" | 0.453" | 0.102" | 0.086" | 1/2" | 947.14.12 | 948.14.12 | | |
| | | | | | | | 3/4" | 947.14.34 | 948.14.34 | - | |
| 3/8" | 0.380" | 0.365" | 0.796" | 0.766" | 0.166" | 0.146" | 7/8" | 947.38.78 | - | - | |
| | | | | | | | 1" | 947.38.1 | - | - | |

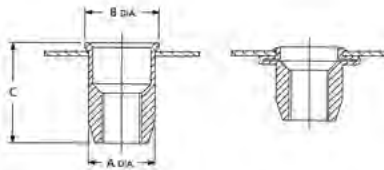
RIVNUTS

Rivet nuts can be used as rivet and screw connections. They ensure secure connections as well as the simple installation of other components using just standard screws.

Advantages:

- Processing takes place from one side, thus also suitable for closed profiles.
- Simple, quick and largely automatic installation.
- No need for countersinking of drilled holes.
- Consistently high quality of installations.
- Non-twisting connection with a thread capable of bearing loads.
- More economical thanks to increased working speed, more secure connections and improved quality.

METRIC FLAT RIVNUT

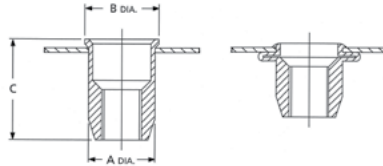


Steel - Clear Zinc Plated

- Reduced assembly costs.
- Blind installation is installed fast and cleanly.
- Designed for thin materials.
- Can work in materials as thin as .020" and greater.
- Permanent.
- Crimps the parent material, providing secure and permanent load bearing thread.
- Low profile head.
- Flush fit to workpiece.

| Thread Size | A Max. | C Max. | B Max. | Grip range | Hole ± 0.015 | Art. No. | P. Qty. |
|-------------|--------|--------|--------|--------------|------------------|--------------|---------|
| M4 x 0.7 | .249" | .270" | .409" | .020 - .079" | .252 | 944.4 | 25 |
| M5 x 0.8 | .280" | .437" | .318" | .019 - .129" | .283" | 944.5 | |
| M6 x 1.0 | .374" | .590" | .401" | .029 - .165" | .377" | 944.6 | |
| M8 x 1.25 | .500" | .708" | .547" | .039 - .196" | .500" | 944.8 | 10 |

STANDARD FLAT RIVNUT



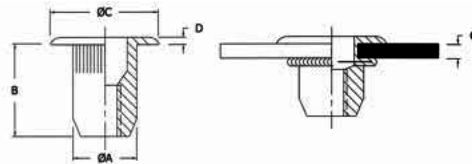
| Thread Size | A Max. | C Max. | B Max. | Grip range | Hole ±0.006 | Art. No. | P. Qty. |
|-------------|--------|--------|--------|--------------|-------------|---------------------|---------|
| 6-32 | .249" | .385" | .295" | .020 - .080" | .250" | 944.6..32 *† | 25 |
| 8-32 | .249" | .385" | .295" | .020 - .080" | .250" | 944.8..32 * | 25 |
| 10-24 | .280" | .465" | .320" | .020 - .118" | .285" | 944.10.24 * | 25 |
| 1/4-20 | .374" | .580" | .425" | .030 - .165" | .375" | 944.14.20 * | 25 |

Steel - Clear Zinc Plated

- Reduced assembly costs.
- Blind installation is installed fast and cleanly.
- Designed for thin materials.
- Can work in materials as thin as .020" and greater.
- Permanent.
- Crimps the parent material, providing secure and permanent load bearing thread.
- Low profile head.
- Flush fit to workpiece.

* With underhead splines † Yellow zinc

KNURLED RIVNUT - LARGE FLANGE

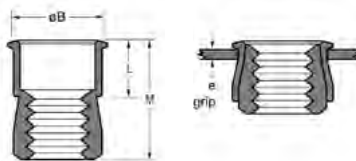


| Part Material | Thread Size | A Max. | B ± 0.015 | C ± 0.010 | D ± 0.010 | Grip Range G | Hole ± 0.006 | Art. No. | P. Qty. |
|---------------|-------------|--------|-----------|-----------|-----------|---------------|--------------|----------------------|---------|
| Steel | 1/4-20 UNC | 0.390 | 0.580 | 0.500 | 0.030 | 0.027 - 0.165 | 25/64 | 944.1420.165S | 25 |
| | 1/4-20 UNC | 0.390 | 0.683 | .500 | 0.037 | 0.165 - 0.260 | 25/64 | 944.1420.260S | |
| | 5/16-18 UNC | 0.530 | 0.690 | 0.685 | 0.035 | 0.027 - 0.150 | 17/32 | 944.516.150S | |
| | 5/16-18 UNC | 0.530 | 0.805 | 0.685 | 0.035 | 0.150 - 0.312 | 17/32 | 944.516.312S | |
| | 3/8-16 UNC | 0.530 | 0.690 | 0.685 | 0.035 | 0.027 - 0.150 | 17/32 | 944.38.150S | |
| Aluminum | 3/8-16 UNC | 0.530 | 0.805 | 0.685 | 0.035 | 0.150 - 0.312 | 17/32 | 944.38.312S | 25 |
| | 1/4-20 UNC | 0.390 | 0.580 | 0.500 | 0.030 | 0.027 - 0.165 | 25/64 | 944.1420.165A | |
| | 1/4-20 UNC | 0.390 | 0.680 | 0.500 | 0.030 | 0.165 - 0.260 | 25/64 | 944.1420.260A | |
| | 3/8-16 UNC | 0.530 | 0.693 | 0.670 | 0.042 | 0.027 - 0.150 | 17/32 | 944.38.150A | |
| | 3/8-16 UNC | 0.530 | 0.805 | 0.685 | 0.035 | 0.150 - 0.312 | 17/32 | 944.38.312A | |

Steel - Clear Zinc Plated

- Splined body.
- The splined body provides increased torque-to-turn resistance over conventional non-splined inserts.
- Large flange.
- Provides a large bearing surface which increases push-out performance.
- Wide grip range.
- The range of product within the series provides a placing capability in material thickness ranging from .027" (0.5mm) to .312" (7.9mm).
- High strength threads.
- The threads are rolled into the product creating work hardened surface providing high-strength, load-bearing threads.
- Lead-in chamfer.
- The lead-in chamfer on the body provides ease of insertion into the work piece.
- Aluminum

HEAVY DUTY NUTSERT



| Thread size | e (grip) min. | e (grip) max. | rec. | Ø B max. | L max. | M | Art. No. | P. Qty. |
|-------------|---------------|---------------|-------|----------|--------|------|------------------|---------|
| 10-24 UNC | .030 | .090 | .2812 | .2810 | .190 | .385 | 944.91024 | 50 |
| | .091 | .124 | .2900 | | | | | |
| | .125 | .186 | .2968 | | | | | |
| | >.186 | .2968 | | | | | | |
| 10-32 UNF | .030 | .090 | .2812 | .3749 | .262 | .525 | 944.91032 | 50 |
| | .091 | .124 | .2900 | | | | | |
| | .125 | .186 | .2968 | | | | | |
| | >.186 | .2968 | | | | | | |
| 1/4-20 UNC | .030 | .090 | .3750 | .3749 | .262 | .525 | 944.914 | 50 |
| | .091 | .124 | .3750 | | | | | |
| | .125 | .186 | .3860 | | | | | |
| | >.186 | .3906 | | | | | | |

Steel - Clear Zinc Plated

- Reduced assembly costs.
- Installed from one side of the workpiece.
- Not grip sensitive.
- Can be used in any material thickness from .030" through solid materials.
- Permanent.
- Radial expansion on Nutsert provides 360° contact with parent material.
- Portability.
- Allows installation anywhere and at any time in the assembly process.
- Rear protrusion.
- Reduced rear-sheet protrusion.

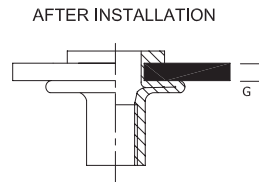
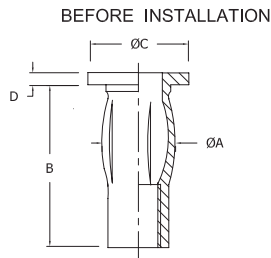
RIVNUT NOSE TIPS



| Metric Nose Tip | |
|-----------------|---------------|
| Size | Art. No. |
| M4 - 0.7 | 944.04 |
| M5 - 0.8 | 944.05 |
| M6 - 1.0 | 944.06 |
| M8 - 1.25 | 944.08 |

| Standard Nose Tip | |
|-------------------|--------------------|
| Size | Art. No. |
| #6 - 32 | 944.06.32 |
| #8 - 32 | 944.08.32 |
| #10 - 24 | 944.010.24 |
| #10 - 32 | 944.010.32 |
| 1/4 - 20 | 944.014.20 |
| 5/16 - 18 | 944.0516.18 |
| 3/8 - 16 | 944.038.16 |

PRE-BULBED INSERT



Low Carbon Steel • Yellow Zinc \ Clear Zinc

| Thread Size | A Max. | B ± 0.015 | C ± 0.025 | D ± 0.010 | Grip Range G | Hole + 0.006 | Art. No. |
|-------------|--------|---------------|---------------|---------------|---------------|--------------|------------------|
| 1/4-20 | 0.384 | 1.000 | 0.625 | 0.057 | 0.020 - 0.280 | 0.390 | 944.11420 |

RIVNUT ASSORTMENTS & PARTS



Metric Rivnut Kit Art. No. 965.9441001

Contents (45 pieces):
4, 5, 6 and 8 mm metric flat rivnuts, 4, 5, 6, and 8 mm rivnut nose tips, rivet gun



USS Standard Rivnut Kit Art. No. 965.9441000

Contents (40 pieces):
3 sizes heavy duty nutserts, 1 size USS flat riv-nut, 4 standard rivnut nose tips, rivet gun

SELF-PIERCING RIVETS



Self-piercing rivet (SPR) joints are achieved by pressing a self-piercing rivet using a specialty tool (SPR gun) to fasten two or more sheets of material through the metals to be joined. This is done with the use of a die. The lower sheet is attached to the upper sheet without piercing through it.

Each manufacturer has a die that matches their OEM requirements and visual similarity.

Material: Steel
Coating: ZnSnAl (zinc/tin/aluminum)

| Dia x length (mm) | Henrob Cross Ref. | Art. No. | P.Qty |
|-------------------|-------------------|------------------|-------|
| 3.35 x 3.5 | C30N44AY00-G05 | 919.33535 | 100 |
| 3.35 x 4.0 | C30444AY00-G05 | 919.33540 | |
| 3.35 x 5.0 | J30544AY00-G05 | 919.33550 | |
| 3.35 x 6.0 | C50644AZ00-D02 | 919.33560 | |
| 5.3 x 4.0 | C50444CY00-G02D | 919.5340 | 200 |
| 5.3 x 8.0 | K50844AY00-G01D | 919.5350 | |
| 5.3 x 5.0 | C50544AY00-G02D | 919.5360 | 100 |
| 5.3 x 6.0 | C50644AZ00-D02 | 919.5365 | |
| 5.3 x 6.5 | C50D44AY00-G02 | 919.5370 | |
| 5.3 x 7.0 | K50744AY00-G01D | 919.5375 | |
| 5.3 x 7.5 | K50M44AZ00-D02 | 919.5380 | |

Benefits:

- Speed of installation
- No drilling required
- Applications for aluminum and steel and dissimilar materials
- Can be used on un-weldable materials
- More than one material can be fastened
- Safe, with no fumes, sparks or high temperatures during installation
- Completed joint can be easily checked visually
- Can be used with glues and adhesives

Areas of application:

- Used in the assembly of cars, trucks and manufactured products.
- Automotive and truck applications include hoods, doors, trunk lids, tailgates, seat rails, side-impact bars, space frames, window frames and sunroof frames.
- Manufacturers use SPR's for step ladders, air cargo containers, garage door frames, air conditioners, refrigerators, office furniture etc.

Note: The rivet used should be 2 to 3 mm longer than the stack of materials to be joined.

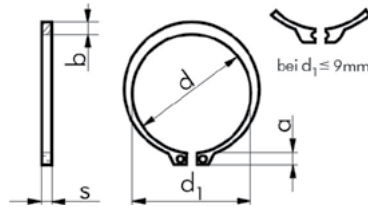
SELF-PIERCING RIVET AND FLOWFORM® ASSORTMENT



Art. No. 965.919 - 1400 pcs

| Description (mm) | Art. No. | Kit Contents |
|----------------------------|------------------|--------------|
| SPR 3.35 x 3.5 | 919.33535 | 100 |
| SPR 3.35 x 4.0 | 919.33540 | 100 |
| SPR 3.35 x 5.0 | 919.33550 | 100 |
| SPR 3.35 x 6.0 | 919.33560 | 100 |
| SPR 5.3 x 4.0 | 919.5340 | 200 |
| SPR 5.3 x 8.0 | 919.5350 | 100 |
| SPR 5.3 x 5.0 | 919.5360 | 100 |
| SPR 5.3 x 6.0 | 919.5365 | 100 |
| SPR 5.3 x 6.5 | 919.5370 | 100 |
| SPR 5.3 x 7.0 | 919.5375 | 100 |
| SPR 5.3 x 7.5 | 919.5380 | 100 |
| Flowform® screw 5mm x 22mm | 050.5..22 | 100 |
| Flowform® screw 6mm x 20mm | 050.6..20 | 100 |

METRIC EXTERNAL RETAINING RINGS



| Dia. (d) | d1 in mm | s in mm | b in mm | a in mm | Art.No | P. Qty. |
|----------|----------|---------|---------|---------|---------------|---------|
| M5 | 4.7 | 0.6 | 1.1 | 2.5 | 438.5 | 50 |
| M6 | 5.6 | 0.7 | 1.3 | 2.7 | 438.6 | 50 |
| M7 | 6.5 | 0.8 | 1.4 | 3.1 | 438.7 | 50 |
| M8 | 7.4 | 0.8 | 1.5 | 3.2 | 438.8 | 50 |
| M9 | 8.4 | 1.0 | 1.7 | 3.3 | 438.9 | 50 |
| M10 | 9.3 | 1.0 | 1.8 | 3.3 | 438.10 | 50 |
| M11 | 10.2 | 1.0 | 1.8 | 3.3 | 438.11 | 50 |
| M12 | 11.0 | 1.0 | 1.8 | 3.3 | 438.12 | 50 |
| M13 | 11.9 | 1.0 | 2.0 | 3.4 | 438.13 | 50 |
| M14 | 12.9 | 1.0 | 2.1 | 3.5 | 438.14 | 50 |
| M15 | 13.8 | 1.0 | 2.2 | 3.6 | 438.15 | 25 |
| M16 | 14.7 | 1.0 | 2.2 | 3.7 | 438.16 | 25 |
| M17 | 15.7 | 1.0 | 2.3 | 3.8 | 438.17 | 25 |
| M18 | 16.5 | 1.2 | 2.4 | 3.9 | 438.18 | 25 |
| M19 | 17.5 | 1.2 | 2.5 | 3.9 | 438.19 | 25 |
| M20 | 18.5 | 1.2 | 2.6 | 4.0 | 438.20 | 25 |
| M22 | 20.5 | 1.2 | 2.8 | 4.2 | 438.22 | 25 |
| M24 | 22.2 | 1.2 | 3.0 | 4.4 | 438.24 | 25 |
| M25 | 23.2 | 1.2 | 3.0 | 4.4 | 438.25 | 25 |
| M28 | 25.9 | 1.5 | 3.2 | 4.7 | 438.28 | 25 |
| M30 | 27.9 | 1.5 | 3.5 | 5.0 | 438.30 | 25 |
| M35 | 32.2 | 1.5 | 3.9 | 5.6 | 438.35 | 25 |

Complies with DIN 471 for shafts

Spring Steel
Phosphate and Oil

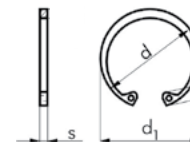
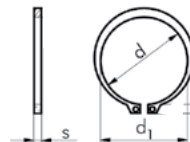
- For safely limiting freedom of movement to a previously defined level - also when there are rotary movements of machine parts on shafts and in bore holes.
- High pressure, tensile and impact forces are transferred without torsion.
- Transfer of high axial forces from the machine part applying pressure onto the groove wall.
- Shaft clips can also be used in conjunction with high speeds.
- The clips can be removed quickly and easily with the correct pliers.



Metric External Retaining Ring Assortment
Art. No. 964.438

Contents: 1050 pieces
Assortment for shafts. DIN 471.
18 sizes from 5 to 35 mm.

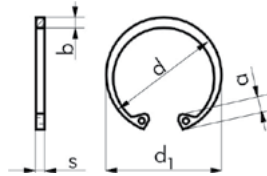
STANDARD STEEL RETAINING RINGS



Yellow Zinc Plated

| d | d1 | s | External | P. Qty. | d1 | s | Internal | P. Qty. |
|---------|--------|--------|------------------|---------|--------|--------|----------------|---------|
| 1/4" | 0.230" | 0.029" | 436.14 | 50 | 0.268" | 0.020" | 437.14 | 50 |
| 5/16" | 0.290" | 0.029" | 436.516 | 50 | 0.330" | 0.020" | 437.516 | 50 |
| 3/8" | 0.352" | 0.029" | 436.38 | 50 | 0.397" | 0.029" | 437.38 | 50 |
| 7/16" | 0.412" | 0.029" | 436.716 | 50 | 0.461" | 0.029" | 437.716 | 50 |
| 1/2" | 0.468" | 0.039" | 436.12 | 50 | 0.530" | 0.039" | 437.12 | 50 |
| 9/16" | 0.530" | 0.039" | 436.916 | 50 | 0.596" | 0.039" | 437.916 | 50 |
| 5/8" | 0.588" | 0.039" | 436.58 | 50 | 0.665" | 0.039" | 437.58 | 50 |
| 1-1/16" | 0.646" | 0.046" | 436.1116 | 25 | | | | |
| 3/4" | 0.704" | 0.046" | 436.34 | 50 | 0.796" | 0.039" | 437.34 | 50 |
| 13/16" | 0.762" | 0.046" | 436.1316 | 25 | | | | |
| 7/8" | 0.821" | 0.046" | 436.78 | 25 | 0.931" | 0.046" | 437.78 | 25 |
| 15/16" | 0.882" | 0.046" | 436.1516 | 25 | | | | |
| 1" | 0.940" | 0.046" | 436.1 | 10 | 1.066" | 0.046" | 437.1 | 25 |
| 1-1/8" | | | | | 1.197" | 0.056" | 437.118 | 25 |
| 1-3/16" | 1.118" | 0.056" | 436.13161 | 25 | | | | |
| 1-1/4" | 1.176" | 0.056" | 436.114 | 50 | 1.330" | 0.056" | 437.114 | 25 |
| 1-1/2" | 1.406" | 0.056" | 436.112 | 25 | | | | |
| 1-3/4" | 1.650" | 0.068" | 436.134 | 25 | | | | |
| 2" | 1.886" | 0.068" | 436.2 | 25 | | | | |
| 2-1/4" | 2.120" | 0.860" | 436.214 | 10 | | | | |
| 2-1/2" | 2.360" | 0.086" | 436.212 | 10 | | | | |

METRIC INTERNAL RETAINING RINGS



Complies with DIN 472 for bore holes

Spring Steel
Phosphate and Oil

| Dia (d) | d1 in mm | s in mm | b in mm | a in mm | Art. No | P. Qty. |
|---------|----------|---------|---------|---------|---------------|---------|
| M13 | 14.1 | 1.0 | 1.8 | 3.6 | 439.13 | 50 |
| M14 | 15.1 | 1.0 | 1.9 | 3.7 | 439.14 | 50 |
| M16 | 17.3 | 1.0 | 2.0 | 3.8 | 439.16 | 25 |
| M22 | 23.5 | 1.0 | 2.5 | 4.2 | 439.22 | 25 |
| M26 | 27.9 | 1.2 | 2.8 | 4.7 | 439.26 | 25 |
| M28 | 30.1 | 1.2 | 2.9 | 4.8 | 439.28 | 25 |
| M47 | 50.5 | 1.8 | 4.4 | 6.4 | 439.47 | 25 |

ASSORTMENTS



Art. No. 964.438

Metric External Retaining Ring Assortment

For Shafts, Phosphate & Oiled Spring Steel, Complies with DIN 471

Contents (1050 Pieces): 18 assorted sizes, size range M5-M35



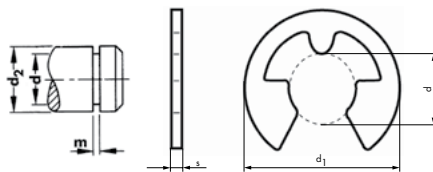
Art. No. 964.439

Metric Internal Retaining Ring Assortment

For Bores, Phosphate & Oiled Spring Steel, Complies with DIN 472

Contents (1050 Pieces): 18 assorted sizes, size range M8-M30

METRIC E-CLIPS



Complies with DIN 6799 for shafts

Steel • Bare • black



| d | d2 | d1 | s | m | Art. No. | P. Qty. |
|-------|--------------|---------|---------|--------|----------------|---------|
| M1.5 | 2.0-2.5 mm | 4.25 mm | 0.4 mm | 0.44 m | 490.15 | 50 |
| M1.9 | 2.5-3.0 mm | 4.8 mm | 0.5 mm | 0.54 m | 490.19 | 50 |
| M2.3 | 3.0-4.0 mm | 6.3 mm | 0.6 mm | 0.64 m | 490.23 | 100 |
| M3.2 | 4.0-5.0 mm | 7.3 mm | 0.6 mm | 0.74 m | 490.32 | 100 |
| M4.0 | 5.0-7.0 mm | 9.3 mm | 0.7 mm | 0.74 m | 490.40 | 100 |
| M5.0 | 6.0-8.0 mm | 11.3 mm | 0.7 mm | 0.74 m | 490.50 | 100 |
| M6.0 | 7.0-9.0 mm | 12.3 mm | 0.7 mm | 0.74 m | 490.60 | 100 |
| M7.0 | 8.0-11.0 mm | 14.3 mm | 0.9 mm | 0.94 m | 490.70 | 50 |
| M8.0 | 9.0-12.0 mm | 16.3 mm | 1.0 mm | 1.05 m | 490.80 | 50 |
| M9.0 | 10.0-14.0 mm | 18.8 mm | 1.1 mm | 1.15 m | 490.90 | 50 |
| M10.0 | 11.0-15.0 mm | 20.4 mm | 1.2 mm | 1.25 m | 490.100 | 50 |
| M12.0 | 13.0-18.0 mm | 23.4 mm | 1.3 mm | 1.35 m | 490.120 | 50 |
| M15.0 | 16.0-24.0 mm | 29.4 mm | 1.5 mm | 1.55 m | 490.150 | 50 |
| M19.0 | 20.0-31.0 mm | 37.6 mm | 1.75 mm | 1.8 m | 490.190 | 50 |

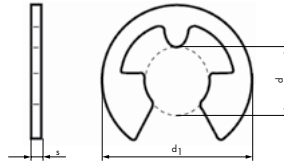
Metric "E" Clips Assortment Art. No. 964.490

For Shafts - Bare Steel, Complies with DIN 6799

Contents: (985 Pieces):

12 assorted sizes, size range M2-M19

STANDARD E-CLIPS

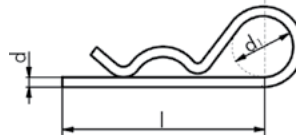


Steel • Bare

| Dia. (d) | (d1) | (s) | Art. No. | P. Qty. |
|----------|--------|--------|----------------|---------|
| 1/8" | 0.095" | 0.018" | 494.18 | 100 |
| 5/32" | 0.116" | 0.029" | 494.532 | 100 |
| 3/16" | 0.147" | 0.029" | 494.316 | 100 |
| 7/32" | 0.188" | 0.029" | 494.732 | 100 |
| 1/4" | 0.210" | 0.029" | 494.14 | 100 |
| 5/16" | 0.250" | 0.029" | 494.516 | 100 |

| Dia. (d) | (d1) | (s) | Art. No. | P. Qty. |
|----------|--------|--------|----------------|---------|
| 3/8" | 0.303" | 0.039" | 494.38 | 100 |
| 7/16" | 0.343" | 0.039" | 494.716 | 100 |
| 1/2" | 0.396" | 0.046" | 494.12 | 100 |
| 5/8" | 0.485" | 0.046" | 494.58 | 100 |
| 3/4" | 0.580" | 0.056" | 494.34 | 50 |
| 7/8" | 0.675" | 0.056" | 494.78 | 50 |

METRIC HITCH PINS/R-CLIPS

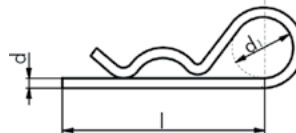


Single loop

Clear Zinc Plated

- For securing bolts, tubes, struts, etc.
- Simple and rapid to install/remove.
- Reusable.
- Ends are burr-free.

| Hole dia. mm | Exterior dia. mm | d mm | l mm | d1 mm | Art. No. | P. Qty. |
|--------------|--------------------|------|------|-------|---------------|---------|
| 2.5 | from 9 to 14 | 2 | 50 | 10 | 473.21 | 50 |
| 3.5 | more than 10 to 17 | 3 | 56 | 13 | 473.31 | 50 |
| 4.5 | more than 16 to 20 | 4 | 60 | 19 | 473.41 | 50 |
| 6.0 | more than 20 to 28 | 5 | 85 | 26 | 473.51 | 25 |
| 7.0 | more than 28 to 40 | 6 | 105 | 30 | 473.61 | 25 |

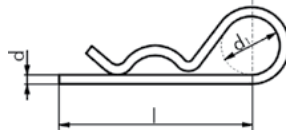


Double loop

Clear Zinc Plated

| Hole dia. mm | Exterior dia. mm | d mm | l mm | d1 mm | Art. No. | P. Qty. |
|--------------|--------------------|------|------|-------|---------------|---------|
| 2.5 | from 8 to 14 | 2 | 50 | 10 | 473.23 | 50 |
| 3.5 | more than 14 to 20 | 3 | 62 | 16 | 473.33 | 50 |
| 4.5 | more than 17 to 24 | 4 | 78 | 23 | 473.43 | 25 |
| 6.0 | more than 18 to 30 | 5 | 92 | 30 | 473.53 | 25 |
| 7.0 | more than 24 to 36 | 6 | 120 | 30 | 473.63 | 25 |
| 9.0 | more than 24 to 45 | 8 | 130 | 30 | 473.83 | 10 |

STANDARD HITCH PINS/R-CLIPS

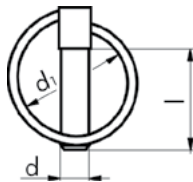


Single loop
Oil-tempered spring steel wire
Clear Zinc Plated

- For securing bolts, tubes, struts, etc.
- Simple and rapid to install/remove.
- Reusable.

| Hole Size | Min. Shaft Dia. inches | Max. Shaft Dia. inches | d inches | l inches | d1 inches | Art. No. | P. Qty. |
|-----------|------------------------|------------------------|----------|----------|-----------|------------------|---------|
| | | | 1/32 | 3/8 | 1/16 | 474.12 | 50 |
| | 1/8 | 3/16 | 3/64 | 5/8 | 1/8 | 474.13 | 50 |
| | 1/4 | 3/8 | 3/32 | 1-3/16 | 1/4 | 474.14 | 50 |
| 5/64 | 3/8 | 1/2 | 1/16 | 1-9/16 | 5/16 | 474.10392 | 50 |
| | 1/4 | 1/2 | 3/32 | 1-5/8 | 5/16 | 474.15 | 50 |
| 7/64 | 1/4 | 5/8 | 3/32 | 2-5/16 | 5/8 | 474.10394 | 50 |
| 9/64 | 5/8 | 7/8 | 1/8 | 2-1/2 | 1/2 | 474.10395 | 25 |
| | 7/16 | 3/4 | 1/8 | 2-9/16 | 7/16 | 474.16 | 50 |
| | 5/8 | 1 | 5/32 | 2-15/16 | 3/4 | 474.17 | 30 |
| 3/16 | 7/8 | 1-1/4 | 3/16 | 3-3/4 | 7/8 | 474.18 | 50 |
| 21/64 | 7/8 | 1 | 5/16 | 3-15/16 | 7/8 | 474.19 | 10 |
| 17/64 | 3/4 | 1 | 1/4 | 4 | 15/16 | 474.20 | 10 |

LINCH PINS



Yellow Passivated

- With prestressed spring washer.
- For securing bolts, tubes, struts, etc.
- Simple and rapid to install/remove.
- Reusable.

| d | d1 | l | Art. No. | P. Qty. |
|--------|--------|--------|----------------|---------|
| 4.5 mm | 34 mm | 42 mm | 472.45 | 25 |
| 6 mm | 41 mm | 42 mm | 472.6 | 25 |
| 8 mm | 41 mm | 42 mm | 472.8 | 25 |
| 10 mm | 41 mm | 42 mm | 472.10 | 25 |
| 11 mm | 41 mm | 42 mm | 472.11 | 25 |
| 1/4" | 1-5/8" | 2-1/8" | 472.14 | 10 |
| 7/16" | 1-3/4" | 2-1/4" | 472.716 | 5 |

LINCH PIN & HITCH PIN ASSORTMENT



Art. No. 473.1 - 150 pieces

P. Qty: 1 (incl. fastening set)

Contents:

| Description | d | d1 | l | Art. No. | P. Qty. |
|-------------|--------|-------|-------|---------------|---------|
| Linch pin | 4.5 mm | 34 mm | 42 mm | 472.45 | 10 |
| | 6 mm | 41 mm | 42 mm | 472.6 | |
| | 8 mm | 41 mm | 42 mm | 472.8 | |
| | 10 mm | 41 mm | 42 mm | 472.10 | |
| | 11 mm | 41 mm | 42 mm | 472.11 | |
| Hitch Pin | 2 mm | 10 mm | 50 mm | 473.21 | 5 |
| | 2 mm | 10 mm | 50 mm | 473.23 | |
| | 3 mm | 13 mm | 56 mm | 473.31 | |

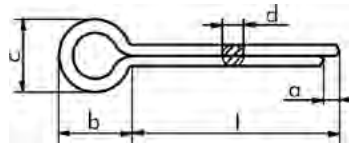
| Description | d | d1 | l | Art. No. | P. Qty. |
|-------------|------|-------|--------|---------------|---------|
| Hitch Pin | 3 mm | 16 mm | 62 mm | 473.33 | 10 |
| | 4 mm | 19 mm | 60 mm | 473.41 | |
| | 4 mm | 23 mm | 78 mm | 473.43 | |
| | 5 mm | 26 mm | 85 mm | 473.51 | |
| | 5 mm | 30 mm | 92 mm | 473.53 | |
| | 6 mm | 30 mm | 105 mm | 473.61 | |
| | 6 mm | 30 mm | 120 mm | 473.63 | |
| | 8 mm | 30 mm | 130 mm | 473.83 | |

Pack sizes subject to change without notice

METRIC COTTER PINS

DIN 94 (ISO 1234)

Steel • Clear Zinc Plated



- For securing castle nuts in conjunction with bolts or threaded pins with cotter pin hole (e.g. steering and tracking gears in motor vehicles).
- For securing clevis pins

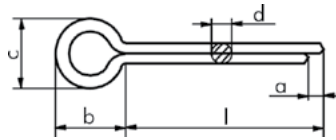
| Dia. in mm (d) | Length in mm (l) | a in mm | Head height in mm (b) | Head dia. in mm (c) | Art. No. | P. Qty |
|----------------|------------------|---------|-----------------------|---------------------|------------------|--------|
| 1 | 16 | 1.6 | 3 | 1.6 | 470.1..16 | 100 |
| 1 | 25 | 1.6 | 3 | 1.6 | 470.1..25 | 100 |
| 1.6 | 16 | 2.5 | 3.2 | 2.4 | 470.16.16 | 100 |
| 1.6 | 20 | 2.5 | 3.2 | 2.4 | 470.16.20 | 100 |
| 1.6 | 25 | 2.5 | 3.2 | 2.4 | 470.16.25 | 100 |
| 1.6 | 32 | 2.5 | 3.2 | 2.4 | 470.16.32 | 100 |
| 2 | 22 | 2.5 | 4 | 3.2 | 470.2..22 | 100 |
| 2 | 25 | 2.5 | 4 | 3.2 | 470.2..25 | 100 |
| 2 | 32 | 2.5 | 4 | 3.2 | 470.2..32 | 100 |
| 2 | 40 | 2.5 | 4 | 3.2 | 470.2..40 | 100 |
| 2.5 | 25 | 2.5 | 5 | 4 | 470.25.25 | 100 |
| 2.5 | 32 | 2.5 | 5 | 4 | 470.25.32 | 100 |
| 2.5 | 36 | 2.5 | 5 | 4 | 470.25.36 | 100 |
| 2.5 | 40 | 2.5 | 5 | 4 | 470.25.40 | 100 |
| 3.2 | 25 | 2.5 | 5 | 4 | 470.32.25 | 100 |
| 3.2 | 32 | 2.5 | 5 | 4 | 470.32.32 | 100 |
| 3.2 | 36 | 2.5 | 5 | 4 | 470.32.36 | 100 |
| 3.2 | 40 | 2.5 | 5 | 4 | 470.32.40 | 100 |
| 3.2 | 45 | 2.5 | 5 | 4 | 470.32.45 | 100 |
| 3.2 | 50 | 2.5 | 5 | 4 | 470.32.50 | 100 |
| 3.5 | 35 | 4 | 7.2 | 5.9 | 470.35.35 | 100 |
| 3.5 | 40 | 4 | 7.2 | 5.9 | 470.35.40 | 100 |
| 3.5 | 50 | 4 | 7.2 | 5.9 | 470.35.50 | 100 |
| 3.5 | 60 | 4 | 7.2 | 5.9 | 470.35.60 | 100 |
| 4 | 25 | 4 | 8 | 6.5 | 470.4..25 | 100 |
| 4 | 36 | 4 | 8 | 6.5 | 470.4..36 | 100 |
| 4 | 40 | 4 | 8 | 6.5 | 470.4..40 | 100 |

| Dia. in mm (d) | Length in mm (l) | a in mm | Head height in mm (b) | Head dia. in mm (c) | Art. No. | P. Qty |
|----------------|------------------|---------|-----------------------|---------------------|------------------|--------|
| 4 | 45 | 4 | 8 | 6.5 | 470.4..45 | 100 |
| 4 | 50 | 4 | 8 | 6.5 | 470.4..50 | 100 |
| 4.5 | 40 | 4 | 8 | 6.5 | 470.45.40 | 100 |
| 4.5 | 50 | 4 | 8 | 6.5 | 470.45.50 | 100 |
| 5 | 40 | 4 | 10 | 8 | 470.5..40 | 100 |
| 5 | 45 | 4 | 10 | 8 | 470.5..45 | 100 |
| 5 | 50 | 4 | 10 | 8 | 470.5..50 | 100 |
| 5 | 63 | 4 | 10 | 8 | 470.5..63 | 50 |
| 6.3 | 63 | 4 | 12.6 | 11.8 | 470.63.63 | 50 |



Metric Cotter Pin Assortment
Art. No. 964.470
 Contents: 1775 pieces
 12 assorted sizes,
 from 1.6 mm - 6.3 mm.

STANDARD SPLIT COTTER PINS



Clear Zinc Plated
Stainless Steel • 18-8

| Dia. (d) | Head dia. (c) | Length (l) | Clear zinc | P. Qty. | 18-8 SS | P. Qty. |
|----------|---------------|------------|-------------|---------|-------------|---------|
| 1/16" | 0.12" | 1/2" | 471.116.12 | 100 | | |
| | | 3/4" | 471.116.34 | 100 | | |
| | | 1" | 471.116.1 | 100 | 478.116.1 | 100 |
| | | 1-1/4" | 471.116.114 | 100 | | |
| | | 1-1/2" | 471.116.112 | 100 | | |
| | | 1-3/4" | 471.116.134 | 100 | | |
| 3/32" | 0.19" | 2" | 471.116.2 | 100 | | |
| | | 1/2" | 471.332.12 | 100 | | |
| | | 3/4" | 471.332.34 | 100 | | |
| | | 1" | 471.332.1 | 100 | 478.332.1 | 100 |
| | | 1-1/4" | 471.332.114 | 100 | | |
| | | 1-1/2" | 471.332.112 | 100 | 478.332.112 | 100 |
| 7/64" | 0.22" | 1-3/4" | 471.332.134 | 100 | | |
| | | 2" | 471.332.2 | 100 | 478.332.2 | 100 |
| | | 2-1/2" | 471.332.212 | 100 | | |
| | | 1" | 471.764.1 | 100 | | |
| 1/8" | 0.25" | 1-1/2" | 471.764.112 | 100 | | |
| | | 2" | 471.764.2 | 100 | | |
| | | 1/2" | 471.18.12 | 100 | | |
| | | 3/4" | 471.18.34 | 100 | | |
| | | 1" | 471.18.1 | 100 | 478.18.1 | 100 |
| | | 1-1/4" | 471.18.114 | 100 | | |
| 5/32" | 0.31" | 1-1/2" | 471.18.112 | 100 | 478.18.112 | 100 |
| | | 1-3/4" | 471.18.134 | 100 | | |
| | | 2" | 471.18.2 | 100 | 478.18.2 | 100 |
| | | 2-1/2" | 471.18.212 | 100 | | |
| | | 3" | 471.18.3 | 100 | | |
| | | 1" | 471.532.1 | 100 | | |
| 3/16" | 0.38" | 1-1/4" | 471.532.114 | 100 | | |
| | | 1-1/2" | 471.532.112 | 100 | 478.532.112 | 50 |
| | | 1-3/4" | 471.532.134 | 100 | | |
| | | 2" | 471.532.2 | 100 | 478.532.2 | 50 |
| | | 2-1/2" | 471.532.212 | 100 | | |
| 1/4" | 0.50" | 3" | 471.532.3 | 100 | | |
| | | 1" | 471.316.1 | 100 | | |
| | | 1-1/2" | 471.316.112 | 100 | | |
| | | 2" | 471.316.2 | 100 | 478.316.2 | 50 |
| | | 2-1/2" | 471.316.212 | 100 | | |
| | | 3" | 471.316.3 | 100 | | |
| 5/16" | 0.62" | 3-1/2" | 471.316.312 | 100 | | |
| | | 4" | 471.316.4 | 100 | | |
| | | 1-1/2" | 471.14.112 | 50 | | |
| | | 2" | 471.14.2 | 50 | | |
| | | 2-1/2" | 471.14.212 | 50 | | |
| 3/8" | 0.75" | 3" | 471.14.3 | 25 | | |
| | | 4" | 471.14.4 | 25 | | |
| | | 1-1/2" | 471.516.112 | 50 | | |
| | | 2" | 471.516.2 | 25 | | |
| | | 2-1/2" | 471.516.212 | 50 | | |
| | | 3" | 471.516.3 | 25 | | |
| 5/8" | 1.125" | 3-1/2" | 471.516.312 | 25 | | |
| | | 4" | 471.516.4 | 25 | | |
| | | 1-1/2" | 471.38.112 | 50 | | |
| 3/4" | 0.9375" | 3" | 471.38.3 | 25 | | |
| | | 3-1/2" | 471.38.312 | 10 | | |

ASSORTMENTS



Standard Split Cotter Pin Assortment Art. No. 965.471

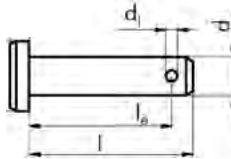
Contents: 1550 pieces
16 assorted sizes, from 1/16" - 3/16"
Clear Zinc Plated



Industrial Cotter Pin Assortment Art. No. 965.4711

Contents: 350 pieces
10 assorted sizes, from 1/4" - 3/8"
Clear Zinc Plated

STANDARD CLEVIS PINS



Clear Zinc Plated • low carbon Steel
For use with cotter pins

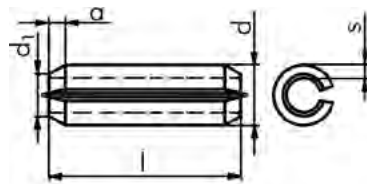


| Dia. (d) | Length (l) | Length under head to centre of hole (l _a) | No. of holes | Cotter pin dia. (d ₁) | Art. No. | P. Qty. |
|----------|------------|---|--------------|-----------------------------------|-------------------|---------|
| 1/4" | 1" | 29/32" | 1 | 1/16" | 260.14.1 | 10 |
| 5/16" | 1" | 7/8" | 1 | 3/32" | 260.516.1 | 10 |
| | 2" | 1-13/16" | 1 | 3/32" | 260.516.2 | 10 |
| 3/8" | 1" | 7/8" | 1 | 3/32" | 260.38.1 | 10 |
| | 1-1/2" | 1-3/8" | 1 | 3/32" | 260.38.112 | 10 |
| 7/16" | 2" | 1-3/4" | 1 | 3/32" | 260.716.2 | 10 |
| | 1-1/2" | 1-11/32" | 1 | 1/8" | 260.12.112 | 10 |
| 1/2" | 1-3/4" | 1-19/32" | 1 | 1/8" | 260.12.134 | 10 |

Standard Clevis Pin Assortment Art. No. 965.260

Contents: 50 pieces
1/4", 5/16", 3/8", 1/2", in varying lengths.

METRIC SLOTTED SPRING PINS



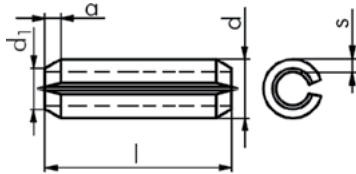
ISO 8752 (replacement for DIN 1481) Spring Steel • Bare

- Fasteners, similar use to grooved pins.
- Used as screw and bolt sleeves primarily where high shear forces occur.
- Stress on bolts and pins is relieved - this allows smaller sizes to be used.
- 0.2 - 0.5 mm oversize compared with the nominal diameter guarantees a secure, firm, fit.
- Tapered end simplifies driving into the hole.
- The pins can be driven out again without damage.

| Dia. in mm (d) | Length in mm (l) | Thickness in mm (s) | a in mm | d ₁ in mm | Art. No. | P. Qty. |
|----------------|------------------|---------------------|---------|----------------------|------------------|---------|
| M2 | 20 | 0.4 | 0.55 | 1.5 | 475.2..20 | 50 |
| | 30 | 0.4 | 0.55 | 1.5 | 475.2..30 | 100 |
| M3 | 20 | 0.6 | 0.7 | 2.1 | 475.3..20 | 50 |
| | 26 | 0.6 | 0.7 | 2.1 | 475.3..26 | 100 |
| | 30 | 0.6 | 0.7 | 2.1 | 475.3..30 | 100 |
| M4 | 40 | 0.6 | 0.7 | 2.1 | 475.3..40 | 100 |
| | 40 | 0.8 | 0.85 | 2.8 | 475.4..40 | 100 |
| | 60 | 0.8 | 0.85 | 2.8 | 475.4..60 | 50 |
| M5 | 30 | 1.0 | 1.1 | 3.4 | 475.5..30 | 50 |
| | 40 | 1.0 | 1.1 | 3.4 | 475.5..40 | 100 |
| | 45 | 1.0 | 1.1 | 3.4 | 475.5..45 | 100 |
| | 50 | 1.0 | 1.1 | 3.4 | 475.5..50 | 50 |
| | 60 | 1.0 | 1.1 | 3.4 | 475.5..60 | 100 |
| M6 | 30 | 1.2 | 1.4 | 4.0 | 475.6..30 | 50 |
| | 40 | 1.2 | 1.4 | 4.0 | 475.6..40 | 50 |
| | 50 | 1.2 | 1.4 | 4.0 | 475.6..50 | 50 |
| | 60 | 1.2 | 1.4 | 4.0 | 475.6..60 | 50 |
| M8 | 50 | 1.5 | 2.4 | 5.5 | 475.8..50 | 50 |
| | 90 | 1.5 | 2.4 | 5.5 | 475.8..90 | 50 |

Note: The hole diameter is the same as the nominal diameter (tolerance 12 H).

STANDARD SLOTTED SPRING PINS



Steel • Zinc • Bare

| Dia. (d) | Length (l) | Thickness (s) | Art. No. | P. Qty. |
|----------|------------|---------------|---------------------|---------|
| 3/32" | 3/4" | 0.022 | 4776.332.34 | 50 |
| | 1" | 0.022 | 476.332.1 | 100 |
| 1/8" | 1/2" | 0.028 | 476.18.12* | 50 |
| | 3/4" | 0.028 | 476.18.34 | 100 |
| | 1" | 0.028 | 476.18.1 | 50 |
| | 1-1/2" | 0.028 | 476.18.112 | 50 |
| 5/32" | 3/4" | 0.032 | 476.532.34 | 100 |
| | 1" | 0.032 | 476.532.1 | 50 |
| | 1-1/2" | 0.032 | 476.532.112 | 100 |
| 3/16" | 3/4" | 0.040 | 476.316.34 | 100 |
| | 1" | 0.040 | 476.316.1 | 50 |
| | 1-1/4" | 0.040 | 476.316.114 | 50 |
| | 1-1/2" | 0.040 | 476.316.112* | 50 |
| | 2" | 0.040 | 476.316.2* | 50 |

| Dia. (d) | Length (l) | Thickness (s) | Art. No. | P. Qty. |
|----------|------------|---------------|---------------------|---------|
| 1/4" | 1" | 0.050 | 476.14.1 | 50 |
| | 1-1/4" | 0.050 | 476.14.114 | 50 |
| | 1-1/2" | 0.050 | 476.14.112 | 50 |
| | 2" | 0.050 | 476.14.2 | 50 |
| 5/16" | 3/4" | 0.050 | 476.516.34 | 50 |
| | 1" | 0.050 | 476.516.1 | 50 |
| | 1-1/2" | 0.050 | 476.516.112* | 50 |
| | 1-3/4" | 0.050 | 476.516.134 | 50 |
| 3/8" | 2" | 0.050 | 476.516.2 | 50 |
| | 1" | 0.050 | 476.38.1 | 50 |
| | 1-1/2" | 0.050 | 476.38.112 | 50 |
| | 2" | 0.050 | 476.38.2 | 50 |
| 1/2" | 3" | 0.050 | 476.38.3* | 100 |
| | 2" | 0.050 | 476.12.2 | 50 |

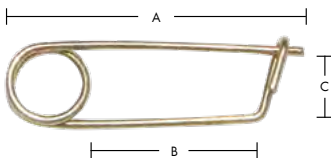


Metric Slotted Spring Pin Assortment
Art. No. 964.4751
 Contents: 240 pieces
 12 dimensions from M7 x 40mm to M12 x 60mm



Metric Slotted Spring Pin Assortment
Art. No. 964.475
 Contents: 1100 pieces
 12 dimensions from M2 x 20mm to M6 x 60 mm

PINS



Safety Pin Industrial - Yellow Zinc Plated

| A | B | C | Art. No. | P. Qty. |
|--------|----------|--------|-------------------|---------|
| 1 3/4" | 1 1/16" | 3/8" | 171.387302 | 10 |
| 4 3/8" | 2 13/16" | 13/16" | 171.387304 | 10 |



Snapper Pin Square - Zinc Plated

| Size | Art. No. | P. Qty. |
|---------------|-------------------|---------|
| 1/4 x 2 3/4" | 171.387108 | 10 |
| 5/16 x 2 1/4" | 171.387109 | 10 |
| 3/8 x 2 1/2" | 171.387113 | 10 |



Spring Lock Pin - Yellow Zinc Plated - OnDemand

| Size | Collar | Length | Art. No. | P. Qty. |
|------|--------|--------|-------------------|---------|
| 1/2" | 1" | 4.25" | 171.387120 | 10 |
| 5/8" | 1 1/8" | | 171.387121 | 5 |
| 3/4" | 1 1/4" | | 171.387122 | 5 |
| 7/8" | 1 3/8" | | 171.387124 | 5 |
| 1" | 1 1/2" | 6.25" | 171.387125 | 5 |

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

LINKS



Connecting Link - Zinc Plated

| Chain Size | WLL (LBS) | Break Strength | Art. No. | P. Qty. |
|------------|-----------|----------------|-------------------|---------|
| 1/4" | 1,400 | 5,600 | 172.604006 | 5 |
| 5/16" | 2,000 | 8,000 | 172.604008 | 5 |
| 3/8" | 2,800 | 11,200 | 172.604010 | 5 |



Quick Link - Zinc Plated

| Link Size | WLL (LBS) | Art. No. | P. Qty. |
|-----------|-----------|-------------------|---------|
| 1/8" | 220 | 173.503402 | 10 |
| 3/16" | 610 | 173.503404 | 10 |
| 1/4" | 880 | 173.503406 | 10 |
| 5/16" | 1,540 | 173.503408 | 10 |
| 3/8" | 1,980 | 173.503410 | 10 |
| 1/2" | 3,300 | 173.503411 | 10 |



Spring Snap Link - Zinc Plated

| Link Size | Art. No. | P. Qty. |
|-----------|-------------------|---------|
| 3/16" | 524.900316 | 10 |
| 1/4" | 524.90014 | 10 |
| 5/16" | 524.900516 | 10 |
| 3/8" | 524.90038 | 10 |

LINK ASSORTMENT



Art. No. 965.172050 - 50 pcs.

| Art. No. | Description | Qty. |
|-------------------|--------------------------------|------|
| 172.604006 | CONNECTING LINK, ZINC - 1/4" | 5 |
| 172.604008 | CONNECTING LINK, ZINC - 5/16" | |
| 172.604010 | CONNECTING LINK, ZINC - 3/8" | |
| 173.503406 | QUICK LINK, ZINC - 1/4" | |
| 173.503408 | QUICK LINK ZINC - 5/16" | |
| 173.503410 | QUICK LINK, ZINC - 3/8" | 10 |
| 173.503411 | QUICK LINK, ZINC - 1/2" | |
| 524.90014 | SPRING SNAP LINK, ZINC - 1/4" | |
| 524.90038 | SPRING SNAP LINK, ZINC - 3/8" | |
| 524.900516 | SPRING SNAP LINK, ZINC - 5/16" | 10 |

WIRE ROPE C2C



Wire cable on lightweight plastic reels.

Features & Benefits:

- Cross-section 7x7
- Fast, tool-free installation using the wire cable holder
- Cradle to Cradle® certified

Applications:

- Ventilation, air conditioning and heating applications, pipelines, cable-support systems, loudspeakers, safety suspensions, isolation panels for cold rooms, signage, decoration, suspended ceilings, conveyor systems, stays, solar panels

| Material | Surface | Length (m) | Weight (g) | Diameter (mm) | Permissible | Art. No. | P. Qty. |
|----------|------------|------------|------------|---------------|-------------|------------|---------|
| Steel | Galvanized | 150 | 9.55 | 1.5 | 350N | 525.500512 | 1 |

WIRE ROPE HOLDER



Self-locking wire cable holder for quick installation without tools

Features & Benefits:

- Can be adjusted without tools
- Cradle to Cradle® certified

Note: After the wire cable has been fed in (note the direction arrow on the holder), the wire cable holder locks in the desired position.

| Material | Weight (g) | Cable Size (mm) | Permissible Load | Art. No. | P. Qty. |
|----------|------------|-----------------|-------------------|------------|---------|
| Zamak | 20.6 | 1.5 - 2.5 | 700N (916 ft lbf) | 525.500501 | 1 |

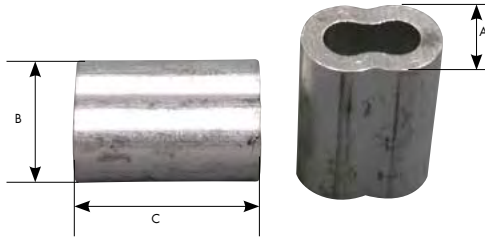
MECHANICS WIRE



Art. No. 801.15502 - Qty. 1

- 18 gauge.
- Length: 100 m.

ALUMINUM SWAGE SLEEVES



- Swage sleeves are an ideal way for making a neat, strong eye splice in a matter of seconds without frayed cable ends.
- Crimping of sleeve must be done with a swage sleeve tool, to ensure maximum holding power.
- For use with aircraft cable.

Note: Not for use in marine applications.

| Wire Rope Dia. | | A | B | C | Crimps | Hole No. | Art. No. | P. Qty. |
|----------------|-----|-------|-------|--------|--------|----------|----------------|---------|
| (inches) | mm | | | | | | | |
| 1/16 | 1.5 | .185" | .258" | .390" | 2 | 1 | 258.116 | 100 |
| 3/32 | 2.5 | .277" | .403" | .490" | 3 | 2 | 258.332 | 100 |
| 1/8 | 3 | .336" | .493" | .628" | 3 | 3 | 258.18 | 50 |
| 5/32 | 4 | .381" | .574" | .686" | 3 | 4 | 258.532 | 50 |
| 3/16 | 5 | .443" | .666" | 1.004" | 3 | 5 | 258.316 | 25 |
| 1/4 | 6 | .536" | .816" | 1.137" | 3 | 1 | 258.14 | 25 |

COPPER PULL-OUT PINS



Used in the bodyshop for the removal of dents from body panels

| Size (mm) | Art. No. |
|-----------|-------------------|
| 2.0 | 691.500080 |
| 2.6 | 691.500081 |

KEY STOCK



- Enables the mechanic to make up any size axle key on short notice and with a minimum investment.
- Made of 1010 cold rolled steel to ASTM A307 specifications
- Core Hardness: 69-100 HRB
- Tensile Strength: 60KSI min (60,000psi)
- Not heat treated.

| Size | Length | Art. No. | P. Qty. |
|-------------|--------|--------------------|---------|
| 3/16 x 3/16 | 12" | 988.316.316 | 6 |
| 1/4 x 1/4 | | 988.14.14 | |
| 5/16 x 5/16 | | 988.516.516 | |
| 3/8 x 3/8 | | 988.38.38 | |
| 7/16 x 7/16 | | 988.716.716 | |
| 1/2 x 1/2 | | 988.12.12 | |

ASSORTMENTS

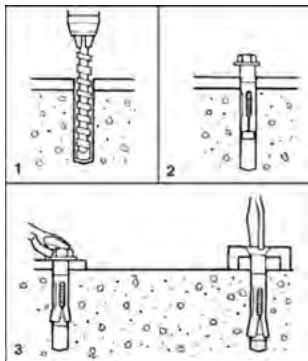


Key Stock Assortment

Art. No. 965.988

Contents: 27 pieces
6 of 988.316.316, 988.14.14,
988.516.516, 3 of 988.38.38,
988.716.716, 988.12.12

SLEEVE ANCHORS



Carbon Steel • Clear Zinc Plated

- Length of sleeve makes anchor more forgiving than a wedge anchor and induces less stress on the substrate.
- Can be used in solid or hollow masonry.
- Works in any depth hole.
- Required hole diameter equals anchor diameter.
- Supplied assembled with 3 head styles options.

Directions:

1. Drill hole depth 1/2" to 1" deeper than anchor embedment. Select a carbide-tip drill bit with same nominal diameter as anchor body.
2. Clean hole of debris.
3. Set nut flush with top of anchor and drive anchor through material to be anchored into the work surface until nut and washer are snug with material to be attached.
4. Tighten nut until finger tight, then turn 3 to 4 full turns to set the expansion sleeve.

Note: Do not over-torque.

| Head style | Anchor Dia & Length | Hole Dia. (in.) | Max Thickness Material to be Anchored | Min. Embedment | Dia. Thread Stud | Required Torque to Set (lbs) | Art. No. | P. Qty. |
|------------|---------------------|-----------------|---------------------------------------|----------------|------------------|------------------------------|-----------------|---------|
| Hex Nut | 3/8 x 1-7/8" | 3/8" | 5/8" | 1-1/4" | 5/16" | 22-26 | 904.1712 | 50 |
| Hex Nut | 3/8 x 3" | 3/8" | 1 3/4" | 1-1/4" | 5/16" | 22-26 | 904.1713 | 50 |
| Hex Nut | 1/2 x 2-1/4" | 1/2" | 3/4" | 1-1/2" | 3/8" | 34-38 | 904.1714 | 25 |
| Hex Nut | 1/2 x 3" | 1/2" | 1 1/2" | 1-1/2" | 3/8" | 34-38 | 904.1715 | 25 |

ZINC WEDGE ANCHORS



- Required hole diameter equals anchor diameter.
- Excellent for setting immediately.
- Can be loaded immediately.
- Can be set in any hole depth.
- Simple installation.
- Nut and washer supplied in package.
- Zinc plated carbon steel.

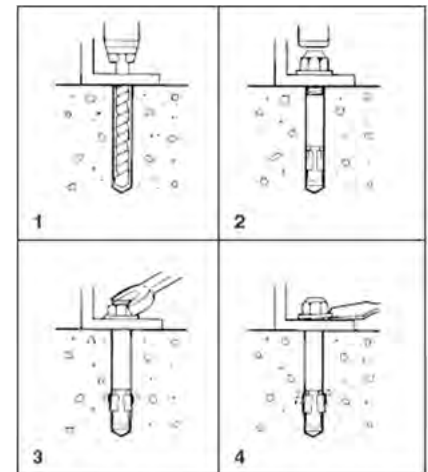
Directions:

1. Drill hole 1/2" to 1" deeper than anchor embedment. Clean hole of debris.
2. With nut threaded past the end of stud, hammer into position.
3. Tighten finger tight plus an additional 3-5 turns with wrench.
4. If anchor spins in hole, force anchor up using screwdriver until clip binds into concrete.

Note: Do not use in brick or block. Not advised for use where vibratory loads are high. Oversize holes are detrimental and will reduce performance data from that published.

| Dia. & Length | Thread Length | Hole Dia. | Max Thickness Material to be Anchored | Required Torque to Set (ft - lbs) | Art. No. | P. Qty. |
|---------------|---------------|-----------|---------------------------------------|-----------------------------------|-------------|---------|
| 1/4" x 1-3/4" | 7/8" | 1/4" | 3/8" | 8-10 | 904.2614134 | 100 |
| 3/8" x 2-3/4" | 1-5/8" | 3/8" | 3/4" | 15-30 | 904.38234 | 50 |
| 3/8" x 3" | 1-7/8" | 3/8" | 1" | 15-30 | 904.38300 | 50 |
| 3/8" x 5" | 4" | 3/8" | 3" | 15-30 | 904.38500 | 50 |
| 3/8" x 3-3/4" | 2-5/8" | 3/8" | 1-3/4" | 15-30 | 904.2638334 | 50 |
| 1/2" x 3-3/4" | 1-1/2" | 1/2" | 1/8" | 25-50 | 904.12334 | 50 |
| 1/2" x 2-3/4" | 2-1/2" | 1/2" | 1" | 25-50 | 904.2612234 | 50 |
| 1/2" x 4-1/4" | 3" | 1/2" | 1-1/2" | 25-50 | 904.2612414 | 50 |
| 1/2" x 5-1/2" | 4" | 1/2" | 2-3/4" | 25-50 | 904.12512 | 50 |
| 5/8" x 3-1/2" | 1-5/8" | 5/8" | 1/8" | 40-75 | 904.58312 | 25 |
| 5/8" x 4-1/2" | 2-5/8" | 5/8" | 1-1/8" | 40-75 | 904.2658412 | 25 |
| 5/8" x 5" | 3-1/4" | 5/8" | 1-5/8" | 40-75 | 904.58500 | 25 |
| 5/8" x 6" | 4-1/8" | 5/8" | 2-5/8" | 40-75 | 904.58600 | 25 |
| 3/4" x 4-1/4" | 2-3/8" | 3/4" | 1/8" | 100-200 | 904.2634414 | 25 |
| 3/4" x 5 1/2" | 3-5/8" | 3/4" | 1-3/8" | 100-200 | 904.2634512 | 20 |
| 3/4" x 6-1/4" | 4-1/4" | 3/4" | 2-1/8" | 100-200 | 904.2634614 | 20 |
| 3/4" x 8-1/2" | 4" | 3/4" | 4-3/8" | 100-200 | 904.2634812 | 15 |
| 1" x 12" | 4" | 1" | 6-1/2" | 150-250 | 904.2611200 | 10 |

| Anchor Dia. | Min. Anchor Spacing | Min. Edge Distance |
|-------------|---------------------|--------------------|
| 1/4" | 2-1/2" | 1-1/4" |
| 3/8" | 3-3/4" | 1-7/8" |
| 1/2" | 5" | 2-1/2" |
| 5/8" | 6-1/4" | 3-1/8" |
| 3/4" | 7-1/2" | 3-3/8" |
| 1" | 10" | 5" |



DRYWALL ANCHOR



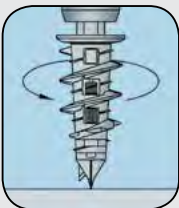
Note: No pre-drilling required!

| Anchor Dimensions | |
|-----------------------|---------------------------|
| Overall length | 33 mm/ 1-1/4" |
| Flange/head | 14 mm/ 9/16" |
| max. attaching height | Depending on screw length |
| Designation | W-GS Type Z |
| Pack Qty. | 200 |

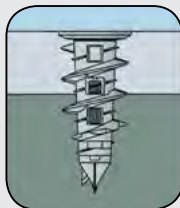
| Characteristic Value | | |
|---------------------------------|-------------------|-----|
| Axis pitch | $\alpha >$ [mm] | 100 |
| Distance from edge | $a_r >$ [mm] | 50 |
| Min. comp. thickness | $d >$ [mm] | 9.5 |
| Thread \varnothing of screw | d_{thread} [mm] | 4.5 |
| Hole \varnothing in component | d_{comp} [mm] | 6.5 |

| Performance | | | |
|-----------------------------|--------------------------|-------------------|------|
| Recommended tensile load | Drywall $d > 9.5$ mm | F_{recomm} [kN] | 0.1 |
| | Gypsum board (Fermacell) | | 0.12 |
| Recommended transverse load | Drywall $d > 9.5$ mm | F_{recomm} [kN] | 0.12 |
| | Gypsum board (Fermacell) | | 0.15 |

Installation



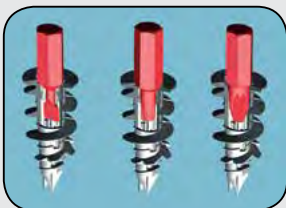
Press point of anchor into the anchorage material



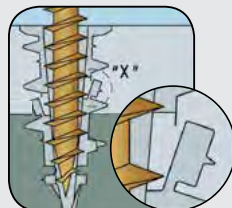
Screw in until flush



Attach component



Detail 1: The patented drive allows setting with virtually any bit



Detail 2: Patented anti-rotation feature

Art. No. 903.252

Zinc Die cast

1. Areas of application

- For non-critical attachments in gypsum and fibrous plaster sheet, lightweight building boards and aerated concrete PB2.
- For attachment of components using a wood or chipboard screw.
- Suitable for use outdoors or in damp locations if used with a stainless steel screw.

2. Advantages

- The patented drive allows for setting of the anchor using a PZ, AW, Square, PH, Slot or Torx bit because force is transmitted through the hexagonal shaft (see Detail 1).
- The patented anti-rotation feature will be triggered by turning the screw into the anchor sleeve. If the screw is removed, the sleeve will not turn and stays in the anchorage material (see Detail 2).
- Low space requirement behind the sheet (only 1.5 mm).
- Can be used without any setting tools with a cordless screwdriver and suitable bit for the corresponding screw.
- Drywall anchor and the screw can be screwed in with the same bit.
- The newly developed centring point allows easy positioning and drilling into the sheet.
- Cost effective and quick mounting without pre-drilling.
- Quick installation using a cordless screwdriver.
- The component can be attached with wood or chipboard screws (Type Z = \varnothing 4.5 mm).

3. Characteristics

- High-quality zinc die casting.
- Functions at temperatures from -40 °C to $+80$ °C (-40 °F to $+176$ °F).
- Functions by mechanical interlock.

P. Qty: 200

ASSORTMENTS



Drywall Anchor Assortment

Art. No. 964.903250

Contents: 401 pieces

1 Zebra screwdriver

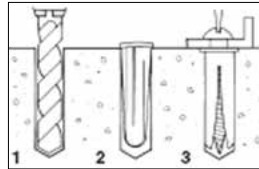
Anchors:

100 pc - 14.5 x 33 mm - plastic

100 pc - 14.5 x 33 mm - diecast

200 pc - matching screws

PLASTIC SCREW ANCHORS



| Dia. x Length | Hole Dia. | Screw Size | Art. No. | P. Qty. |
|---------------|-----------|------------|----------|---------|
| 3/16 x 7/8 | 3/16 | #8 - #10 | 904.8450 | 100 |
| 1/4 x 1 | 1/4 | #10 - #12 | 904.8460 | 100 |
| 5/16 x 1-3/8 | 5/16 | #14 - #16 | 904.8430 | 100 |

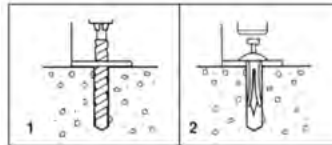
Application:

- Light loads only under dead or slightly variable conditions in all atmospheric conditions.
- Accepts both wood and sheet metal screws.
- Fast, easy installation.
- Material: polypropylene.

Directions:

1. Drill hole of proper diameter slightly deeper than length of anchor.
2. Clean hole of debris.
3. Insert plastic anchor into hole.
4. Place fixture over anchor and insert screw through fixture and into anchor.
5. Tighten screw

ZINC DRIVE ANCHORS



| Anchor Dia. x Length | Hole Dia. | Embedment | Ultimate Loads in Lbs, 3000 PSI | | Art. No. | P. Qty. |
|----------------------|-----------|-----------|---------------------------------|-------|-------------|---------|
| | | | Tension | Shear | | |
| 1/4 x 1" | 1/4" | 3/4" | 750 | 1516 | 903.ZN14100 | 100 |
| 1/4 x 1-1/4" | 1/4" | 1" | 1000 | 1516 | 904.3920 | 100 |
| 1/4 x 1-1/2" | 1/4" | 1-1/4" | 1100 | 1516 | 904.3924 | 100 |

Features:

- Zinc body with zinc plated carbon steel nail.
- Required hole diameter equals anchor diameter.
- Fast, easy installation.
- Zinc plating allows for outdoor applications

Directions:

1. Drill hole to length of product selected.
2. Clean hole of debris.
3. Insert the anchor through material, place in hole and tap nail until flush with head.

Note: Dead loads only. Not recommended for overhead application.

DROP IN ANCHORS



Carbon Steel • Clear Zinc Plated

Features:

- Ideal for flush mounting applications.
- Preassembled for ease of installation.
- Female threads accept standard UNC bolts or threaded rods.
- Slotted body is precision-matched to tapered internal plug for uniform expansion.
- Knurled body increases frictional forces between anchor and wall of hole.

Directions:

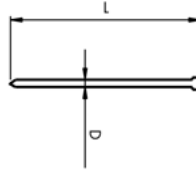
1. Drill hole same length as anchor. Do not use core bits. Maintain accurate hole size.
2. Clean hole of debris.
3. Drop in anchor, slotted end first.
4. To set, drive setting tool into anchor until shoulder of tool is flush with top of anchor.
5. Select proper bolt length.

Note: Dead loads only. Hole depth must be equal to anchor length. Do not over torque.

| Hole Dia. | Min. Embed. | Max. torque ft. lbs | UNC Bolt Size | Ultimate tensile & shear loads in lbs. | | | Art. No. | P. Qty. |
|-----------|-------------|---------------------|---------------|--|-------------|-------|-----------|---------|
| | | | | 2000 P.S.I. | 4000 P.S.I. | Shear | | |
| 3/8" | 1" | 5 | 1/4" | 2,050 | 2,104 | 1,321 | 903.D1425 | 100 |
| 1/2" | 1-9/16" | 10 | 3/8" | 3,957 | 4,824 | 3,714 | 903.D3837 | 100 |

18 GAUGE 1-1/2 INCH BRAD NAILS

18-Gauge Brad Nails to complete fastening tasks in finishing applications.



Features:

- The convenient 5000-piece pack (100nailsx50) allows you to always keep your nailer loaded.
- For use with 703.580050

| Art. No. | 480.1325 | 480.1332 | 480.1338 |
|----------------------|------------|------------|------------|
| P. Qty | 5000 | 5000 | 5 |
| Nominal diameter (D) | 1.2mm | 1.2mm | 1.2mm |
| Length (L) | 25mm | 32mm | 38mm |
| Head diameter | 1.7mm | 1.7mm | 1.7mm |
| Material | steel | steel | steel |
| Surface | Galvanised | Galvanised | Galvanised |

TOGGLE BOLT WITH SPRING WING

Round slotted head • Clear Zinc Plated



| Screw Dia. | Dia. x length | Use Drill | Art. No. | P. Qty. |
|------------|---------------|-----------|------------|---------|
| 3/16 | 10 - 24 x 3 | 9/16 | 904.1024.3 | 25 |
| 3/16 | 10 - 24 x 4 | 9/16 | 904.1024.4 | 25 |
| 1/4 | 1/4 - 20 x 4 | 3/4 | 904.14.4 | 25 |

LIQUID ROCK 500



Art. No. 904.500 - 8.5 oz

A two-component, 100% solids epoxy-based system for use as a high-strength, non-shrink anchor grouting material in solid concrete

- Temperature range from +5 °C (40 °F) to +35 °C (95 °F).
- Can be used under water except where hydrostatic pressure is present.
- Color: white (part A) and black (part B).
- Low odour.
- 24 month shelf life
- Vibration resistant. Excellent where seismic or dynamic loading are considered.
- Exceptional strength when compared to expansion anchors. Can use fewer or smaller anchors to complete the job.
- Fast cure: 6 hours at +27 °C (80 °F). 90% tensile and shear strength. Full cure: 24 hours at +27 °C (80 °F). Reduces total job time.
- Moisture insensitive. Can be used in wet weather.
- Non-shrink, high modulus. Accommodates variances in drill bits & hole sizes.
- Thixotropic gel consistency. Allows material to be injected horizontally as well as vertically.
- Amine based epoxy. Low odor for installer.

P. Qty. 1

| Technical Data | | | | | | | |
|----------------|-----------|-------------|---------------|--------|----------|--------|--|
| Rod Size | Hole Dia. | Min. Embed. | Loads in Lbs. | | | | |
| | | | 2000 PSI | | 4500 PSI | | |
| | | | Tension | Shear | Tension | Shear | |
| 3/8" X 8" | 1/2" | 3-3/8" | 9,300 | 5,810 | 9,540 | 5,810 | |
| 3/8" X 12" | 1/2" | 3-3/8" | 9,300 | 5,810 | 9,540 | 5,810 | |
| 1/2" X 8" | 5/8" | 4-1/2" | 15,660 | 10,640 | 17,100 | 10,640 | |
| 1/2" X 12" | 5/8" | 4-1/2" | 15,600 | 10,640 | 17,100 | 10,640 | |
| 5/8" X 8" | 3/4" | 5-5/8" | 22,000 | 16,950 | 24,180 | 16,950 | |
| 5/8" X 12" | 3/4" | 5-5/8" | 22,000 | 16,950 | 24,180 | 16,950 | |
| 3/4" X 8" | 7/8" | 6-3/4" | 26,440 | 25,050 | 31,970 | 25,050 | |
| 3/4" X 12" | 7/8" | 6-3/4" | 26,440 | 25,050 | 31,970 | 25,050 | |
| 7/8" x 1" | 1" | 7-7/8" | 30,960 | 34,650 | 40,000 | 34,650 | |
| 7/8" x 1" | 1-1/8" | 9" | 37,520 | 45,450 | 50,780 | 45,450 | |

Directions:

1. Drill to correct size and depth using rotary-hammer. Remove dust and rubble from hole with compressed air, brush and water. Excess water should be removed although hole may be damp.
2. Cut static mixer tip to appropriate notch making sure opening is obstruction free. Twist off mixer nut on cartridge. Remove divider plugs.
3. Place static mixer over cartridge opening. Slide mixer nut over static mixer and tighten. Load into dispensing tool. Dispense and discard a bead of material to display proper mix (indicated by uniform color change) before use.
4. Dispense adhesive into hole, filling from bottom up.
5. Insert anchor rod into hole with a slight twisting motion.

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

BMW
INDEX

| OEM No. | Art. No. | Type |
|-------------------|-------------------|---|
| 0716-9-925-720 | 500.11577 | U Type Nut |
| 0716-9-925-737 | 500.13218 | U Type Nut |
| 51-11-1-908-077 | 500.20234 | Scuff Plate Push-Type Retainer |
| 51-11-1-944-537 | 500.20734 | Bumper, Wheel Opening, Scuff Plate & Interior Trim Push-Type Retainer |
| 51-11-1-944-537 | 500.105063 | Rivet |
| 51-11-1-964-186 | 500.105065 | Rivet |
| 51-11-8-174-185 | 500.20248 | Bumper Trim Push-Type Retainer |
| 51-41-1-973-500 | 500.20253 | Trim Panel Retainer |
| 51-44-1-854-624 | 500.105045 | Rivet |
| 51-48-1-884-779 | 500.105035 | Rivet |
| 51-48-1-938-725 | 500.20270 | Hood & Trunk Insulation Push-Type Retainer |
| 51-71-7-006-953-2 | 500.20754 | Rivet |
| | 500.11522 | U Type Nut |
| | 500.11362 | U Type Nut |

BMW
U TYPE NUTS


Art. No. 500.11577
OEM #: 0716-9-925-720

Material: Zinc
Screw Size: 5.5mm
Clamping Range: 1.2mm-2.0mm
Center of Hole to Edge: 10.7mm
Qty: 100



Art. No. 500.13218
OEM #: 0716-9-925-737

Material: Zinc
Screw Size: 4.8mm(#10)
Clamping Range: .5mm-1.7mm
Center of Hole to Edge: 7mm
Qty: 50



Art. No. 500.11522

Material: Zinc
Screw Size: 4.8mm
Clamping Range: .5mm-1.7mm
Center of Hole to Edge: 7.5mm
Qty: 100



Art. No. 500.11362

Material: Zinc
Screw Size: 4.2mm
Clamping Range: .5mm-1.7mm
Center of Hole to Edge: 7.5mm
Qty: 100

BMW
RETAINERS


Bumper, Grille, Scuff Plate & Trim Push-Type Retainer
Art. No. 500.20234
OEM #: 51-11-1-908-077

Material: Black Nylon
Head Dia: 15mm
Stem Length: 15mm
Fits Into: 6.3mm hole
BMW Series 3, 5, & 7 1984 - On
Mercedes Benz 2014-1994
Mercedes OEM #: 000-990-54-92
Qty: 50



Bumper, Wheel Opening, Scuff Plate & Interior Trim Push-Type Retainer
Art. No. 500.20734
OEM #: 51-11-1-944-537

Material: Black Nylon
Head Dia: 20mm
Stem Length: 15mm
Fits Into: 6.3mm Hole
BMW Series 3, 5, 7 & X5
1989 - On
Qty: 25



Bumper Trim Push-Type Retainer
Art. No. 500.20248
OEM #: 51-11-8-174-185

Material: Black Nylon
Head Dia: 20mm
Stem Length: 17mm
Fits Into: 6.3mm Hole
BMW Series 3, 5 & 7
1995 - On
Qty: 100

BMW
RETAINERS


Trim Panel Retainer
Art. No. 500.20253
OEM #: 51-41-1-973-500

Material: White Nylon
 Top Head Dia: 14mm
 Middle Head Dia: 15mm
 Bottom Head Dia: 18mm
 Stem Dia: 9mm
 Stem Length: 15mm
 BMW Series 3, 5 & 7
 1987 - On
Qty: 100



Hood & Trunk Insulation Push-Type Retainer
Art. No. 500.20270
OEM #: 51-48-1-938-725

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 7mm Hole
 BMW Series 3, 5 & 7
 2001 - 84
Qty: 25



Black Nylon Side Shield & Trim Retainer
Art. No. 502.22509
OEM#: 07-14-7-296-886

Head Diameter: 24mm
 Stem Diameter: 4mm
 Stem Length: 23mm
 T27 Drive
Qty: 25



Green Nylon Door Panel Retainer
Art. No. 502.22585
OEM#: 51-41-1-870-718

Top Head Diameter: 15mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.5mm
 Stem Length: 12mm
 Fits into 8mm Hole
Qty: 50

BMW
RIVETS


Art. No. 500.105063
OEM #: 51111944537

Material: Black Nylon
Qty: 100



Art. No. 500.105045
OEM #: 51441854624

Material: Black Nylon
Qty: 100



Art. No. 500.105065
OEM #: 51111964186

Material: Black Nylon
Qty: 100



Art. No. 500.105035
OEM #: 51481884779

Material: Black Nylon
Qty: 100



Nylon Blind Rivet
Art. No. 500.20754
OEM #: 51-71-7-006-953-2

Material: Black Nylon
 Hole Dia: 6mm
 Panel Range (Grip): 2.5mm - 4.8mm
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

BMW
SPECIALTY CLIPS / MOULDING CLIPS

Black & White Nylon Wheel Flare & Rocker Moulding Clip
Art. No. 502.22559
OEM#: 51-71-8-259-025

Top Head Size: 20mm x 30mm

Grommet Head Diameter: 12mm

Grommet Stem Diameter: 7.4mm

Grommet Length: 15mm

Qty: 25
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| OEM No. | Art. No. | Type |
|-------------|------------------|--|
| 10185925 | 502.18301 | Bumper Fascia Retainer |
| 12337920 | 502.12737 | Door Panel Retainer |
| 15153415 | 502.19615 | Rear Bumper Cover Push-Type Retainer |
| 153297 | 502.16478 | PH Flat Top Round Washer Head Teks® |
| 20374473 | 502.12737 | Door Panel Retainer |
| 22569178 | 502.18927 | Front & Rear Door Window Sash Attachment |
| 22579423 | 502.18927 | Front & Rear Door Window Sash Attachment |
| 2964547 | 502.11129 | Weatherstrip Retainer |
| 2998430 | 502.10332 | Radiator Grille Retainer |
| 34201621 | 502.12567 | Front Fender Mud Skirt & Fender Liner Push-Type Retainer |
| 34201631 | 502.18108 | Blind Nylon Rivet |
| 3691590 | 502.10831 | Fender & Bumper Shield Retainer |
| 3861577 | 502.11679 | Mud Shield Retainer |
| 4341060 | 502.17004 | Hood Insulation & Fender Shield Retainer |
| 4370138 | 502.17101 | Blind Nylon Rivet |
| 4381395 | 502.20316 | Door Frame Spacer Retainer |
| 4630088 | 502.18028 | Blind Nylon Rivet |
| 4630253 | 502.18029 | Rear Fascia Push-Type Retainer |
| 4658444 | 502.19191 | Door Lock Rod Clip - RH |
| 4658673 | 502.19149 | Weatherstrip Retainer Front & Rear Doors |
| 4676356 | 502.19339 | Grille To Fascia Fastener |
| 4696129 | 502.18033 | Weatherstrip Retainer |
| 4805405AA | 502.19638 | Front Bumper Fascia Push-Type Retainer |
| 4857345-AA | 502.20457 | Tail Light Housing Push-Type Retainer Large Head |
| 4878883AA | 502.20164 | Hood Insulation Retainer |
| 5023111AA | 502.19804 | Trim Panel Retainer with Sealer |
| 5028438-AA | 502.20428 | Door Trim Panel Retainer |
| 5116530-AA | 502.20990 | Fascia & General Purpose Push-Type Retainer |
| 55055098 | 502.18248 | Headlight Grille Retaining Cup |
| 55156429-AA | 502.20523 | Rocker Panel & Bumper Fascia Clip |
| 6000943 | 502.9377 | Radiator Grille Nut |
| 6003349 | 502.11351 | Door Trim Panel Retainer |
| 6003349 | 502.11678 | Door Trim Panel Retainer |
| 6003351 | 502.11136 | Hood Insulation Retainer |
| 6023171 | 502.10053 | Extruded U Nut |
| 6023925 | 140.6000 | 1/4" Screw Size License Plate Nut |
| 6025329 | 235.14 | "1/4"-20 x 1" Hex Head Sems®with Dog Point 5/8" Washer O.D." |
| 6029501 | 502.12735 | Headlight Bezel Nut |
| 6030441 | 502.11146 | Radiator Yoke, Fender & Bumper Shield Retainer |
| 6031383 | 502.11704 | Grille Retainer |
| 6032363 | 502.11351 | Door Trim Panel Retainer |
| 6032856 | 502.17615 | Chrysler Aluminum Rivet |
| 6035201 | 502.17639 | Split-Type Rivet |

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| OEM No. | Art. No. | Type |
|-------------|-------------------|--|
| 6036148-AA | 502.20629 | Split-Type Rivet |
| 6100048 | 502.15329 | Metric Free Spinning Washer Nuts |
| 6100049 | 502.15331 | Metric Free Spinning Washer Nuts |
| 6100539 | 502.12232 | Hex Head Sems® Thread Cutting Screw With Dog Point |
| 6500787 | 502.14016 | Tail Light Retainer |
| 6500898 | 502.13755 | Blind Nylon Rivet |
| 6500911 | 502.13750 | Blind Nylon Rivet |
| 6501067 | 502.15481 | Fascia Retainer |
| 6501086 | 502.20316 | Door Frame Spacer Retainer |
| 6501301 | 502.16818 | Trim Panel Retainer |
| 6501559 | 502.13751 | Blind Nylon Rivet |
| 6501590 | 502.14019 | Splash Shield & Fascia Retainer |
| 6501773 | 502.12569 | Grommet-Tail Lamp |
| 6501925 | 502.18030 | Push-Type Retainer |
| 6502625 | 502.896652 | Rear Bumper Fascia Retainer |
| 6502842 | 502.17975 | Hood Insulation Retainer |
| 6502907 | 502.17669 | Trim Panel Retainer |
| 6502991 | 502.17685 | Trim Panel Retainer & Tail Gate Retainer |
| 6503204 | 502.18862 | Trim Panel Retainer |
| 6503339 | 502.18249 | Cowl Top Stud Retainer Cover |
| 6503401 | 502.19417 | Screw-Square Rivet Drive Truss |
| 6503453 | 502.18394 | Fascia To Bumper Push-Type Retainer |
| 6503454 | 502.18327 | Front Bumper Fascia Push-Type Retainer |
| 6503709 | 502.19213 | Trim Panel Retainer |
| 6503800 | 502.13748 | Blind Nylon Rivet |
| 6503819 | 502.19417 | Screw-Square Rivet Drive Truss |
| 6503860 | 502.17101 | Blind Nylon Rivet |
| 6503938 | 502.18913 | Blind Nylon Rivet |
| 6504014 | 502.18915 | Door Trim Panel Retainer |
| 6504090 | 502.12567 | Front Fender Mud Skirt & Fender Liner Push-Type Retainer |
| 6504135 | 502.19541 | Hood Insulation Retainer |
| 6504521 | 502.19422 | Fascia Push-Type Retainer |
| 6505292AA | 502.19386 | Door Trim Panel Retainer |
| 6505539-AA | 502.19628 | Door Trim Panel Retainer |
| 6505759-AA | 502.20427 | Door Trim Panel Retainer |
| 6505918-AA | 502.20515 | Trim Panel Retainer |
| 6506104AA | 502.20173 | Roof Rack Threaded Insert with Sealer Under Head |
| 6506136-AA | 502.20458 | Side Radiator Shield Push-Type Retainer |
| 6508712AA | 502.20888 | Fender, Wheel & Bumper Push-Type Retainer |
| 66824-01G00 | 500.16783 | Push-Type Retainer |
| 9422202 | 502.13708 | PH Flat Top Washer Head Tapping Screw |
| 9422246 | 502.13707 | PH Flat Top Washer Head Tapping Screw |
| 9423950 | 502.15827 | PH Flat Washer Head |
| 9427977 | 502.13709 | PH Flat Top Washer Head Tapping Screw |
| 9428273 | 502.13027 | PH Flat Washer Head Tapping Screw |
| MB888869 | 500.19140 | Push-Type Retainer |
| W701971-S | 502.20169 | Door Trim Panel Push-Type Retainer |
| | 502.19837 | Panel Retainer |
| | 502.20181 | Weatherstrip Retainer |
| | 502.2625 | License Plate Nut & Headlight Door Mounting Screw Nut |
| | 502.20275 | Grommet |
| | 502.10262 | Door Lock Rod & Push Rod Clip |
| | 502.2385 | Door Trim Panel Fastener |
| | 502.20180 | Weatherstrip Retainer |

CHRYSLER

RETAINERS



Front Fender Mudskirt Retainer
Art. No. 502.12567
OEM #: 34201621

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 9/16"
 Fits Into: 1/4" Hole
 GM 1981 - On
 GM OEM #: 14019205
Qty: 25



Grille Retainer
Art. No. 502.11704
OEM #: 6031383

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 7/16"
 Fits Into: 9/32" Hole
 Chrysler 1978 - On
Qty: 25



Tail Light Retainer
Art. No. 502.14016
OEM #: 6500787

Material: Black Nylon
 Large Head Dia: 3/8"
 Stem Length: 7/16"
 Fits Into: 3/16" Hole
 GM OEM #: 16500308
Qty: 25



Push Type Retainer
Art. No. 500.16783
OEM #: 66824-01G00

Material: Black Nylon
 Head Dia: 12mm
 Stem Length: 8mm
 (Not Including the Pin)
 Fits Into: 6mm
Qty: 25



Trim Panel Retainer
Art. No. 502.19837

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Dia: 11/32"
 Stem Length: 13/16"
Qty: 75



Headlight Grille Retaining Cup
Art. No. 502.18248
OEM #: 55055098

Material: Black Nylon
 Head Dia: 11mm
 Fits Into: 3mm Hole
 Dodge Ram 1994 - On
Qty: 25

CHRYSLER

RETAINERS



Tail Light Housing Push-Type Retainer
Art. No. 502.20457
OEM #: 4857345-AA

Material: Black Nylon
 Large Head
 Dia: 21mm
 Stem Length: 23mm
 Fits Into: 9.5mm Hole
 Chrysler Caravan, Town & Country and
 Voyager Mini Vans
 2002 - On
Qty: 25



Fascia & General Purpose Push-Type Retainer
Art. No. 502.20990
OEM #: 5116530-AA

Material: Black Nylon
 Head Dia: 19mm
 Stem Length: 16mm
 Panel Range: 5.0mm - 7.0mm
 Fits Into: 8mm hole
 GM 2007 - On
 GM OEM #: 15296830
Qty: 25



Splash Shield & Fascia Retainer
Art. No. 502.14019
OEM #: 6501590

Material: Black Nylon
 Head Dia: 1"
 Shoulder Length: 1/8"
 Stem Length: 7/8"
 Fits Into: 5/16" Hole
 Ford OEM #: N803421-S
Qty: 40



Push-Type Retainer
Art. No. 502.18030
OEM #: 6501925

Material: Black Nylon
 Head Size: 11/16"
 Stem Length: 13/16"
 Fits Into: 1/4" Hole
 Chrysler Concorde & LHS Dodge
 Intrepid & Eagle Vision 1993 - On
 Coolant Recovery Reservoir GM 1992 - On
 GM OEM #: 10134407
Qty: 50



Fender Wheel & Bumper Push-Type Retainer
Art. No. 502.20888
OEM #: 6508712AA

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 20mm
 Panel Range: 3.0mm - 5.8mm
 Fits Into: 9.5mm hole
 GM 2004 - On
 Jeep Wrangler 2000 - On
 GM OEM #: 11561368
Qty: 25



Fascia Push-Type Retainer
Art. No. 502.19422
OEM #: 6504521

Material: Black Nylon
 Head Dia: 23/32"
 Stem Length: 29/32"
 Fits Into: 5/16" Hole
 LHS, Concorde, Intrepid & Eagle Vision
 1998 - On
Qty: 25

CHRYSLER

RETAINERS



Push-Type Retainer
Art. No. 500.19140

Material: Black Nylon
Head Dia: 20mm
Stem Length: 21mm
Fits Into: 8mm Hole
Acura, Dodge Avenger, Eagle Talon,
Geo Prizm, Mitsubishi Eclipse &
Galant and Toyota 1993 - On
Acura OEM #: 90505-SL0-003
Mitsubishi OEM #: MB888869
Toyota OEM #: 90467-08155
GM OEM #: 94852368
Qty: 10



Rear Bumper Fascia Retainer
Art. No. 502.896652
OEM #: 6502625

Material: Black Nylon
Head Dia: 21mm (27/32")
Stem Length: 25mm (1")
Fits Into: 12mm Hole (1/2")
Panel Range: 3mm (1/8")
GM APV Vans 1990 - On
GM OEM #: 10140480
Qty: 10



Trim Panel Retainer with Sealer
Art. No. 502.19804
OEM #: 5023111AA

Material: White Nylon
Top Head Dia: 16mm
Bottom Head Dia: 22mm
Stem Dia: 9mm
Stem Length: 15mm
Dodge Neon 2000 - On
Qty: 15



Door Frame Spacer Retainer
Art. No. 502.20316
OEM #: 4381395, 6501086

Material: Black Nylon
Bottom Head Dia: 1"
Stem Dia: 5/16"
Stem Length: 13/16"
Chrysler 1985 - On, Bumper Retainer
Ford 1981 - On
Ford OEM #: 388904-S
Qty: 50



Hood Insulation Retainer
Art. No. 502.19541
OEM #: 6504135

Material: Black Nylon
Bottom Head Dia: 1"
Stem Dia: 9/32"
Stem Length: 5/8"
Chrysler Mini-Vans &
Durango 1997 - On
Qty: 25



Rear Bumper Cover Push-Type Retainer
Art. No. 502.19615

Material: Black Nylon
Head Dia: 20mm
Stem Length: 21mm
Fits Into: 9mm Hole
GM C&K Trucks 1999 - On
GM OEM #: 15153415
Qty: 25



Black Nylon Front Bumper Push-Type Retainer
Art. No. 502.22459
OEM#: 6509761-AA

Head Diameter: 20mm
Stem Length: 13.5mm
Fits into 10mm Hole
Qty: 30



Black Nylon Cowl Grille & Exterior Trim Push-Type Retainer
Art. No. 502.22543
OEM#: 6509135-AA

Head Diameter: 11mm
Stem Length: 20mm
Fits Into 6mm Hole
Qty: 25

CHRYSLER
RETAINERS


Weatherstrip Retainer
Art. No. 502.11129
OEM #: 2964547

Material: Black Nylon
 Chrysler - 1997 - On
Qty: 100



Mud Shield, Retainer
Art. No. 502.11679
OEM #: 3861577

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Dia: 9/32"
 Stem Length: 1/2"
 GM OEM #: 20032850
 Ford OEM #: 387258-S
Qty: 50



**Fender & Bumper
 Shield Retainer**
Art. No. 502.10831
OEM #: 3861577

Material: Black Nylon
 Bottom Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 5/8"
 GM OEM #: 332364, 14093311,
 20732399;
 Ford OEM #: 387258-S
Qty: 100



Door Trim Panel Retainer
Art. No. 502.11351
OEM #: 6003349, 6032363

Material: Black Nylon
 Head Dia: 15/16"
 Stem Length: 11/16"
 Ford, Chrysler, VW 1975 - On
 Ford OEM #: 385661-S
 Volkswagen OEM #: N989022
Qty: 50



**Hood Insulation Retainer (Chrysler)
 Grille To Radiator Retainer (Ford)**
Art. No. 502.11136
OEM #: 6003351

Material: Black Nylon
 Head Dia: 1/2" x 1-1/2"
 Stem Dia: 9/32"
 Stem Length: 5/8"
 Chrysler 1972 - On
 Ford 1973 - On
 Ford OEM #: 385330-S, D30Z-16776A
Qty: 50



Cowl Top Stud Retainer Cover
Art. No. 502.18249
OEM #: 6503339

Material: Black Nylon
 Head Dia: 13/16"
 Dodge Ram 1994 - On
Qty: 25



**Radiator Yoke, Fender,
 & Bumper Shield Retainer**
Art. No. 502.11146
OEM #: 6030441

Material: Black Nylon
 Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 13/16"
 GM OEM #: 1605396
 Ford OEM #: 388577S
Qty: 100



Fascia Retainer
Art. No. 502.15481
OEM #: 6501067

Material: Black Nylon
 Head Dia: 25mm
 Stem Dia: 7.5mm
 Stem Length: 20mm
 Chrysler 1985 - On
Qty: 50



**Weatherstrip Retainer
 Front & Rear Doors**
Art. No. 502.19149
OEM #: 4658673

Material: Black Nylon
 Chrysler Neon 1996 - On
Qty: 50

CHRYSLER
RETAINERS


Hood Insulation & Fender Shield Retainer
Art. No. 502.17004
OEM #: 4341060

Material: Black Nylon
 Bottom Head Dia: 1-5/16"
 Stem Length: 3/4"
 Stem Dia: 3/8"
 Chrysler 1985 - On
Qty: 25



Rear Fascia Push-Type Retainer
Art. No. 502.18029
OEM #: 4630253

Material: Black Nylon
 Head Size: 7/8" x 1-25/32" (22mm x 45mm)
 Stem Length: 1-1/16" (27mm)
 Fits Into: 1/2" Hole (12.7mm)
 Chrysler Concorde & LHS Dodge
 Intrepid & Eagle Vision 1993 - On
Qty: 15



Hood Insulation Retainer
Art. No. 502.20164
OEM #: 4878883AA

Material: Black Nylon
 Chrysler LH & LHS Series 1997 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.11678
OEM #: 6003349

Material: White Nylon
 Chrysler, GM, AMC & VW 1976 - On
 AMC OEM #: 4005470
 Volkswagen OEM #: N98905101
 GM OEM #: 9685057
Qty: 50



Bumper Fascia Retainer
Art. No. 502.18301
OEM #: 10185925

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Dia: 11/32"
 Stem Length: 11/32"
 Chevy Lumina APV, Olds Silhouette &
 Pontiac Trans Sport 1993 - On
 GM OEM#: 10185925
 Chrysler OEM#: 6503768
Qty: 25



Radiator Grille Retainer
Art. No. 502.10332
OEM #: 2998430

Material: Black Nylon
 Bottom Head Dia: 1-1/4"
 Stem Length: 1/2"
 Stem Dia: 5/16"
Qty: 25

CHRYSLER

RETAINERS



Weatherstrip Retainer
Art. No. 502.20180

Material: Black Nylon
Head Dia: 6.5mm x 11mm
Stem Dia: 6mm
Stem Length: 8mm
Chrysler LH & LHS Series 1997 - On
Qty: 100



Trim Panel Retainer
Art. No. 502.16818
OEM #: 6501301

Material: Black Nylon
Stem Dia: 11/32"
Stem Length: 7/8"
Bottom Head Dia: 3/4"
GM Saturn 1999 - On
Sliding Door & Lift Gate
Trim Panel Retainer
Chrysler Mini Vans 1987 - On
GM OEM #: 21094146
Qty: 25



Front Bumper Fascia Push-Type Retainer
Art. No. 502.18327
OEM #: 6503454

Material: Black Nylon
Head Dia: 11/16"
Stem Length: 5/8"
Fits Into: 1/4" Hole
Jeep Grand Cherokee1994 - On
Qty: 25



Hood Insulation Retainer
Art. No. 502.17975
OEM #: 6502842

Material: Black Nylon
Bottom Head Dia: 1-3/16"
Stem Length: 1/2"
Stem Dia: 5/16"
Chrysler Concorde, Dodge Intrepid,
Eagle Vision 1993 - On
GM Corvette, Equinox, Saturn
1992 - On
GM OEM #: 21039129
Qty: 50



Fascia To Bumper Push-Type Retainer
Art. No. 502.18394
OEM #: 6503453

Material: Black Nylon
Large Head Dia: 1"
Stem Length: 1-1/8"
Fits Into: 1/4" Hole
Jeep Grand Cherokee1994 - On
Qty: 25



Front Bumper Fascia Push-Type Retainer
Art. No. 502.19638
OEM #: 4805405AA

Material: Black & White Nylon
Head Dia: 34mm
Stem Length: 20mm
Fits Into: 8mm Hole
Chrysler Concorde, Intrepid, Eagle, Pacifica,
PT Cruiser 1998 - On
Ford Trucks 2005 - On
Ford OEM #: 1L5Z-17K826AA
Qty: 15

CHRYSLER

RETAINERS



Weatherstrip Retainer
Art. No. 502.18033
OEM #: 4696129

Material: White Nylon
 Head Dia: 1/4" x 21/32"
 Stem Dia: 1/4"
 Stem Length: 15/32"
 Chrysler Concorde & LHS Dodge Interpid & Eagle Vision 1993 - On
 Oldsmobile Alero & Pontiac Grand Am 1999 - On
Qty: 100



Trim Panel Retainer
Art. No. 502.17669
OEM #: 6502907

Material: Yellow Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 23/32"
 Stem Dia: 5/16"
 Stem Length: 9/16"
 Jeep Grand Cherokee & Dodge Trucks 1993 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.18915
OEM #: 6504014

Material: White Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 23/32"
 Stem Dia: 5/16"
 Stem Length: 9/16"
 Chrysler Caravan Cirrus, Neon, Ram Truck, Stratus & Voyager 1995 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.19386
OEM #: 6505292AA

Material: Natural Nylon
 Top Head Dia: 15mm
 Bottom Head Dia: 20mm
 Stem Dia: 9mm
 Stem Length: 15mm
 Chrysler Vans 1998 - On
Qty: 25



Trim Panel Retainer
Art. No. 502.19213
OEM #: 6503709

Material: Natural Nylon
 Hole: 5/16"
 Grip Range: 1/16 - 9/16
 Dodge Ram 1994 - On
Qty: 50



Side Radiator Shield Push-Type Retainer
Art. No. 502.20458
OEM #: 6506136-AA

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 17mm
 Fits Into: 7mm Hole
 Sebring & Stratus 2001 - On
Qty: 25



Weatherstrip Retainer
Art. No. 502.20181

Material: White Nylon
 Chrysler LH & LHS Series 1997 - On
Qty: 100



Tail Gate Retainer
Art. No. 502.17685
OEM #: 6502991

Material: Yellow Nylon
 Jeep Cherokee 1993 - On
Qty: 25



Trim Panel Retainer
Art. No. 502.18862
OEM #: 6503204

Material: Green Nylon
 Bottom Head Dia: 23/32"
 Top Head Dia: 19/32"
 Stem Dia: 5/16"
 Stem Length: 5/8"
 Chrysler Cirrus & Stratus 1995 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.19628
OEM #: 6505539-AA

Material: White Nylon
 Top Head Dia: 15mm
 Bottom Head Dia: 18mm
 Stem Dia: 8.5mm
 Stem Length: 14mm
Qty: 25



Door Trim Panel Retainer
Art. No. 502.20427
OEM #: 6505759-AA

Material: Gray & White Nylon
 Bottom: 20mm
 Middle: 18mm
 Top: 15mm
 Stem Dia: 9mm
 Stem Length: 18mm
 Chrysler Vans 2001 - On
Qty: 25



White Nylon Door Trim Panel Retainer
Art. No. 502.22461
OEM #: 55116997AB, 55116997AA

Top Head Diameter: 16mm
 Middle Head Diameter: 18mm
 Bottom Head Diameter: 22mm
 Stem Diameter: 12mm
 Stem Length: 19mm
Qty: 25

CHRYSLER
RETAINERS


Trim Panel Retainer
Art. No. 502.20515
OEM #: 6505918-AA

Material: Yellow & White Nylon
 Bottom Head Dia: 20mm
 Top Head Dia: 15mm
 Stem Dia: 9mm
 Stem Length: 14mm
 Chrysler Caravan, Town & Country
 and Voyager Mini Vans 2001 - On
Qty: 25



Door Trim Panel Retainer
Art. No. 502.20428
OEM #: 5028438-AA

Material: Green & White Nylon
 Top: 15 mm
 Middle: 17mm
 Bottom: 20mm
 Stem Dia: 9mm
 Stem Length: 18 mm
Qty: 25



Door Panel Retainer
Art. No. 502.12737
OEM #: 12337920, 20374473

Material: White Nylon
 Top Head Dia: 21/32"
 Bottom Head Dia: 3/4"
 Stem Dia: 5/16"
 Stem Length: 3/4"
 Camaro & Firebird 1982 - On
 GM Truck 1989 - On
Qty: 50



Door Trim Panel Push-Type Retainer
Art. No. 502.20169
OEM #: W701971-S

Material: White Nylon
 Head Dia: 15mm
 Stem Length: 13mm
 Fits Into: 7mm Hole
 Lincoln LS 2000 - On
Qty: 25

CHRYSLER
SPECIALTY CLIPS/RETAINERS/MOULDING CLIPS


**Black Hex Washer Head Sems®
 Screw Assembled in Grommet
 Black Nylon Rocker Panel &
 Splash Shield Screw Grommet
 With Specialty Screw**
Art. No. 502.22535
OEM#: 6510123AA

Grommet Head Diameter: 18mm
 Length Under Head: 36mm
Qty: 10



Grille To Fascia Fastener
Art. No. 502.19339
OEM #: 4676356

Material: Phosphate
 Width: 1/2"
 Height 23/32"
 Town & Country, Caravan
 and Voyager
 1997 - On
Qty: 25



**Rocker Panel &
 Bumper Fascia Clip**
Art. No. 502.20523
OEM #: 55156429-AA

Material: Phosphate
 Top Head Size: 1/2" x 1-3/16"
 Stem Length: 27/32"
 Jeep Liberty 2002 - On
Qty: 15



**Black Nylon Rocker
 Moulding Clip With Sealer**
Art. No. 502.22531
OEM#: 68283229AA

Top Head Size: 14mm x 20mm
 Bottom Head Size: 14mm x 32mm
 Stem Length: 15mm
 Fits Into 9mm Hole
Qty: 20

CHRYSLER

SCREW GROMMETS



Radiator Grille Nut
Art. No. 502.9377
OEM #: 60000943

Material: White Nylon
 Screw Size: #8
Qty: 100



License Plate Nut
Art. No. 140.6000
OEM #: 6023925

Material: White Nylon
 Screw Size: 1/4" (#14)
Qty: 100



**License Plate Nut & Headlight
 Door Mounting Screw Nut**
Art. No. 502.2625

Material: Nylon
 Screw Size: #8
Qty: 100



Grommet-Tail Lamp
Art. No. 502.12569
OEM #: 6501773

Material: Black Nylon
 Head Dia: 17.75 Sq./ Screw M6
 Hole: M10
 Ford 1981 - On
Qty: 25



Door Panel Grommet
Art. No. 502.20275

Material: White Nylon
 Head Dia: 19mm
 Stem Length: 12mm
 Fits Into: 9mm Hole
 LH Series 2000 - On
Qty: 50



Headlight Bezel Nut
Art. No. 502.12735
OEM #: 6029501

Material: Nylon
 Screw Size: #6
 GM, Chrysler & VW 1982 - On
 GM OEM #: 1370853
 Volkswagen OEM #: VW/179-813-883
 Renault OEM #: 8934-201-262
Qty: 50



**White Nylon Headlamp
 Mounting Grommet**
Art. No. 502.22577
OEM#: 68211658-AD

Head Size: 16mm x 23mm
 Overall Length: 12mm
 Fits into 10mm x 18mm Hole
 Accepts 7mm Diameter Ball Stud
Qty: 25

CHRYSLER
HARDWARE/BODY BOLTS/SCREWS


Hex Head Sems® w/Dog Point
Art. No. 235.14
OEM #: 6025329

Material: Phosphate
 Thread: 1/4-20
 Length: 1"
 Washer: 5/8"
 Hex: 7/16"
Qty: 20



Hex Head Sems® Thread Cutting Screw With Dog Point
Art. No. 502.12232
OEM #: 6100539

Material: Phosphate
 Dia: M5-0.8
 Length: 20mm
 Washer: 1/2"
 Hex: 8mm
Qty: 100



Screw-Square Rivet Drive Truss, Attaches foam to Bumper Fascia
Art. No. 502.19417
OEM #: 6503401

Material: Black Nylon
 Dia: M7.5
 Length: 35mm
 Head Dia: 22mm
 Shoulder Dia: 9mm
Qty: 30



PH Flat Washer Head
Art. No. 502.15827
OEM #: 9423950

Material: Phosphate
 Screw Size: #10 x 1/2"
 Washer Head: 15/32"
Qty: 100



PH Flat Top Round Washer Head Tek[®]
Art. No. 502.16478
OEM #: 153297

Material: Black Zinc
 Screw Size: #8-18 x 1/2"
 Washer Head: 13/32"
Qty: 100



PH Flat Top Washer Head Tapping Screw
Art. No. 502.13708
OEM #: 9422202

Material: Zinc
 Screw Size: #8 x 1/2"
 Washer Head: 13/32" O.D.
Qty: 100



PH Flat Top Washer Head Tapping Screw
Art. No. 502.13707
OEM #: 9422246

Material: Zinc
 Screw Size: #8 x 3/8"
 Washer Head: 13/32"
Qty: 100



PH Flat Top Washer Head Tapping Screw
Art. No. 502.13709
OEM #: 9427977

Material: Zinc
 Screw Size: #10 x 3/4"
 Washer Head: 15/32"
Qty: 100



PH Flat Washer Head Tapping Screw
Art. No. 502.13027
OEM #: 9428273

Material: Zinc
 Washer Head: 15/32"
Qty: 100

CHRYSLER
HARDWARE/BODY BOLTS/SCREWS


Extruded U Nut
Art. No. 502.10053
OEM #: 6023171

Material: Phosphate
 Screw Size: 5/16-18
 Panel Range: .025"-.150"
 Center of Hole to Edge: 9/16"
 Ford OEM #: 45264
Qty: 50



Roof Rack Threaded Insert with Sealer Under Head
Art. No. 502.20173
OEM #: 6506104AA

Material: Zinc & Yellow
 M6-1.0 Thread
 Grip: 7mm - 3.2mm
 Head Dia: 17mm
 Hex: 9.5 mm (3/8")
 Jeep, 1999 - On
Qty: 25



Metric Free Spinning Washer Nuts
Art. No. 502.15329
OEM #: 6100048

Material: Phosphate
 Thread Size: M6-1.0
 Type B
 Washer O.D.: 18mm
 Height: 9mm
 Hex: 10mm
Qty: 25



Metric Free Spinning Washer Nuts
Art. No. 502.15331
OEM #: 6100049

Material: Phosphate
 Thread Size: M6-1.0
 Type B
 Washer O.D.: 20mm
 Height: 9mm
 Hex: 10mm
Qty: 25

CHRYSLER
HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES


Door Lock Rod Clip-RH
Art. No. 502.19191
OEM #: 4658444

Material: Lavender Nylon
 Diameter Rod: Size: 1/8"
 Chrysler Neon, Cirrus, Stratus &
 Jeep Cherokee 1995 - On
Qty: 25



Door Lock Rod & Hood Latch Locking Push Rod Clip
Art. No. 502.10262

Latch Locking Push Rod Clip
 Rod Size: 5/32"
 Fits Into: 1/4" Hole
Qty: 20



Door Trim Panel Fastener
Art. No. 502.2385

Qty: 100

CHRYSLER
NYLON RIVETS


Blind Nylon Rivet
Art. No. 502.13751
OEM #: 6501559

Material: Black Nylon
Hole: 1/4"
Panel Range: 5/32"-13/32"
GM OEM #: 20452072
Ford OEM #: N803866-S
Qty: 25



Blind Nylon Rivet
Art. No. 502.13748
OEM #: 6503800

Material: Black Nylon
Hole: 13/64"
Panel Range: 1/8"-15/64"
GM OEM #: 20432975
Volkswagen OEM #:
175-853-57701C
Qty: 25



Blind Nylon Rivet
Art. No. 502.17101
OEM #: 4370138, 6503860

Material: Black Nylon
Hole: 1/4"
Panel Range: 5/16"-15/32"
Ford OEM #: N804675S
Qty: 25



Blind Nylon Rivet
Art. No. 502.18913
OEM #: 6503938

Material: Black Rivet Body
& White Mandrel
Hole: 15/64"
Panel Range: 5/32"-9/32"
Qty: 100



Blind Nylon Rivet
Art. No. 502.18108
OEM #: 34201631

Material: Black Nylon
Hole: 1/4"
Panel Range: 5/32"-3/8"
Qty: 100



Blind Nylon Rivet
Art. No. 502.18028
OEM #: 4630088

Material: Black Nylon
Hole: 1/4"
Panel Range: 1/32"-11/64"
Qty: 25



Blind Nylon Rivet
Art. No. 502.13755
OEM #: 6500898

Material: Black Nylon
Hole: 13/64"
Panel Range: 15/64"-25/64"
Qty: 25



Blind Nylon Rivet
Art. No. 502.13750
OEM #: 6500911

Material: Black Nylon
Hole: 1/4"
Panel Range: 5/32"-13/32"
GM OEM #: 14063981
Ford OEM #: N803043-S
Qty: 50

CHRYSLER
SPECIALTY RIVETS


Front & Rear Door Window Sash Attachment
Art. No. 502.18927
OEM #: 22569178, 22579423

Material: Aluminum
 Dia: 3/16"
 Grip: 5/16" - 7/16"
 Flange Dia: 7/16"
Qty: 25



Chrysler Aluminum Rivet
Art. No. 502.17615
OEM #: 6032856

Material: Aluminum Black Mandrel
 Dia: 1/8"
 Grip: 3/16"-3/8"
 Flange Dia: 3/8"
Qty: 50



Split-Type Rivet
Art. No. 502.20629
OEM #: 6036148-AA

Material: Black Aluminum & Aluminum Mandrel
 Dia: 5/32"
 Grip: 3/64" - 1/4"
 Flange Dia: 7/16"
Qty: 25



Split Type Rivet/Attachment of Bumper Cover & Front License Plate Bracket to Bumper Cover
Art. No. 502.17639
OEM #: 6035201

Material: Aluminum Rivet Black/Aluminum Mandrel
 Dia: 1/4"
 Flange Dia: 11/16"
 Grip Range: 3/16"-3/8"
 Ford OEM #: N806830-S100
Qty: 20

FIAT
RETAINER


Push-Type Retainer
Art. No. 500.025205

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 8mm
Qty: 100

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| 14074081 | 502.14036 | Rear Hood Seal Retainer |
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FORD
RETAINERS


**Grille To Metal
Stamping Retainer**
Art. No. 502.11706
OEM #: 387944-S

Material: Black Nylon
Head Dia: 3/4" (19mm)
Shoulder Length: 1/4" (6.4mm)
Fits Into: 1/4" Wide Slot (6.4mm)
Qty: 50



Push Type Retainer
Art. No. 500.896579
OEM #: GJ21-68885-B69

Material: Gray Nylon
Head Dia: 18mm
Stem Length: 12mm
Fits Into: 6mm
Ford Probe & Mazda MX6 1989 - On
Qty: 15



Splash Shield & Fascia Retainer
Art. No. 502.14020
OEM #: N802781-S

Material: Black Nylon
Head Dia: 1"
Fits Into: 1/4" Hole
GM OEM #: 14093088
Qty: 40



**Yellow Nylon Pillar, Scuff
Plate & Trim Panel Retainer**
Art. No. 502.22484
OEM#: E120-68-
AB1; MR975267

Top Head Diameter: 13mm
Middle Head Diameter: 16.5mm
Bottom Head Diameter: 18mm
Stem Diameter: 9.3mm
Stem Length: 13mm
Overall Length: 20mm
Qty: 25



**Air Baffle To Under Carriage
Push-Type Retainer**
Art. No. 502.17216
OEM #: N807389S

Material: Black Nylon
Head Dia: 20mm
Stem Length: 20mm
Fits Into: 8mm Hole
GM Saturn 2 & 4 Door
Models 1991 - On
GM OEM #: 21030249
Acura OEM #: 6503598
Qty: 25



**Front Bumper Cover
Push-Type Retainer**
Art. No. 502.19607
OEM #: XL3Z-17E971-AA

Material: Natural Nylon
Head Dia: 16mm
Fits Into: 10mm
Stem Length: 12mm
Ford F150 & F250 Trucks 1999 - On
Qty: 25



Door Trim Panel
Art. No. 502.20363

Material: White Nylon
Top Head Dia.: 15mm
Bottom Head Dia.: 20mm
Stem Length: 12mm (excluding the pin)
Fits Into: 9mm Hole
Ford 2001 - On
Qty: 25



**Black Nylon Splash
& Heat Shield
Push-Type Retainer**
Art. No. 502.22532
OEM#: W717823-S300

Head Diameter: 25mm
Stem Length: 11mm
Fits Into 6.5mm Hole
Qty: 25

FORD
RETAINERS


Splash Shield & Fascia Retainer
Art. No. 502.14019
OEM #: N803421-S

Material: Black Nylon
 Head Dia: 1" (25.4mm)
 Shoulder Length: 1/8" (3.2mm)
 Stem Length: 7/8" (22mm)
 Fits Into: 5/16" Hole (8mm)
 Chrysler OEM #: 6501590
Qty: 25



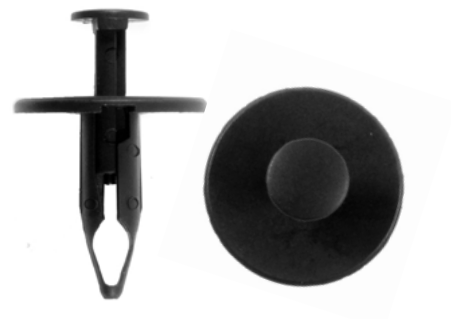
Splash Shield, Seat Cushion & Spare Tire Retainer
Art. No. 502.13994
OEM #: N804614-S; N803934-S

Material: Black Nylon
 Head Dia: 1"
 Stem Length: 7/8"
 Fits Into: 5/16" Hole"
 GM OEM #: 20570245
Qty: 25



Screw Retainer
Art. No. 502.18894
OEM: N807578-S, N808336-S

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 3/4"
 Fits Into: 1/4" Hole
Qty: 25



Front Bumper Push Retainer
Art. No. 502.18503
OEM #: W701054-S300

Material: Black Nylon
 Head Dia: 1"
 Stem Length: 1"
 Fits Into: 5/16" Hole
Qty: 25



Cowl Vent, & Fender Push Type Retainer
Art. No. 502.20889
OEM: W712196-S300

Head Dia: 20mm
 Stem Length: 22mm
 Panel Range: 4.5mm - 7.0mm
 Fits Into: 8.5mm hole
 Buick Century, LaCrosse & Regal, Cadillac, Chevrolet Equinox, GM Trucks, Hummer H3, Pontiac Grand Prix & Torrent 1997 - 2008
 Ford Years: 2006 - 2008
 GM OEM #: 11589293
Qty: 25



Fender Flare, Gas Tank & Panel Attachment
Art. No. 502.20993
OEM: W712665-S300

Material: Black Nylon
 Head Dia: 25mm
 Stem Length: 20mm
 Panel Range: 3.0mm - 6.0mm
 Fits Into: 10.5mm hole
 Chevrolet Cobalt & HHR, GM C&K Trucks and Pontiac G5 2005 - 2008
 GM OEM #: 11589295
Qty: 25

FORD
RETAINERS


Push-Type Retainer
Art. No. 500.17632
OEM #: MB-455-56143

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
 Mazda OEM #: B096-51-833
Qty: 25



Fascia Trim & Grille Retainer
Art. No. 502.14953
OEM #: N8034945

Material: Black Nylon
 Head Dia: 15/32" x 15/32"
 Fits Into: 1/4" sq. Hole
 Ford Aerostar, Escort & Lynx 1985 - On
 GM 1994 - On
Qty: 25



Push-Type Retainer
Art. No. 502.14994
OEM #: N8048375

Material: Black Nylon
 Head Dia.: .250mm
 Flange Dia.: 1.000mm
 Stem Length: .900mm
 Panel Range: .100-.240mm
Qty: 50



Bumper Cover Push-Type Retainer
Art. No. 502.20367
OEM #: W706713-S300

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 18mm
 Fits Into: 8mm Hole
 Ford Escape 2001 - On
Qty: 25



Fender Flare Retainer
Art. No. 502.20624
OEM #: W709006-SAA

Material: Black Nylon
 Bottom Head Dia: 18mm
 Stem Dia: 7.5mm
 Stem Length: 33mm
 Ford Expedition & Navigator 2003 - On
Qty: 25



Bumper Push-Type Retainer
Art. No. 502.19849

Material: Black Nylon & Santoprene Rubber
 Head Dia.: 18mm
 Stem Length: 18mm
 Fits Into: 8mm Hole
 Ford Taurus & Sable 2000 - On
Qty: 25

FORD
RETAINERS


Weatherstrip Fastener
Art. No. 502.11612
OEM #: 388246S

Material: Black Nylon
 Head Dia: 7/16"
 Stem Dia: 3/16"
 Stem Length: 5/8"
 GM OEM #: 20413107
 AMC OEM #: 4006516
Qty: 75



Mud Shield Retainer
Art. No. 502.10831
OEM #: 389358

Material: Black Nylon
 Bottom Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 5/8"
 GM OEM #: 20032850
 Chrysler OEM #: 3861577
Qty: 100



Fascia Retainer
Art. No. 502.14021
OEM #: N803170-S

Material: Black Nylon
 Head Dia: 7/16"
 Stem Length: 1/2"
Qty: 25



Hood Insulation Retainer (Chrysler)
Grille To Radiator Retainer (Ford)
Art. No. 502.11136
OEM #: 385330-S,D30Z-16776A

Material: Black Nylon
 Head Dia: 1/2" x 1-1/2"
 Stem Dia: 9/32"
 Stem Length: 5/8"
 Chrysler OEM #: 6003351
Qty: 50



Push-Type Retainer
Art. No. 502.20191
OEM #: YS4Z-16K266-AA

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 18mm
 Fits Into: 6mm Hole
 Ford Focus 2000 - On
Qty: 25



Radiator Shroud Retainer
Art. No. 502.14753
OEM #: N804570S

Material: Black Nylon
 Head Dia: 11/16"
 Fits Into: 1/4" Hole
 GM 1982 - On
 Ford 1986 - On
 Chrysler 1998 - On
 GM OEM #: 20664092
Qty: 25



Door Trim Panel Retainer
Art. No. 502.11351
OEM #: 385661-S

Material: Black Nylon
 Head Dia: 15/16"
 Stem Length: 11f/16"
 Chrysler OEM #: 6003349, 6032363
 Volkswagen OEM #: N989022
Qty: 50



Mud Shield Retainer
Art. No. 502.11679
OEM #: 387258-S

Material: Black Nylon
 Bottom Head Dia.: 3/4"
 Stem Dia.: 9/32"
 Stem Length: 1/2"
 GM OEM #: 20032850
 Chrysler OEM #: 3861577
Qty: 50



Radiator Yoke, Fender, & Bumper Shield Retainer
Art. No. 502.11146
OEM #: 388577S

Material: Black Nylon
 Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 13/16"
 GM OEM #: 1605396
 Chrysler OEM #: 6030441
Qty: 100

FORD
RETAINERS


Fascia to Bumper Retainer
Art. No. 502.12571
OEM #: 389443-S

Material: Black Nylon
 Head Dia: 1"
 Stem Dia: 5/16"
 Stem Length: 13/16"
Qty: 50



Shield Retainer Battery Post
Cable Shield, Engine Splash Shield
Radiator Side Air Baffle
Art. No. 502.17664
OEM #: 390018-S

Material: Black Nylon
 Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 1-1/16"
 GM OEM #: 10121502
 GM 1989 - On
Qty: 50



Trim Panel Retainer
Art. No. 502.12909
OEM #: 388930-S

Material: Black Nylon
 Head Dia: 1"
 Stem Dia: 9/32"
 Stem Length: 1-1/16"
 Ford 1980 - On
Qty: 50



Rear Hood Seal Retainer
Art. No. 502.14036
OEM #: 14074081

Material: Black Nylon
 Head Dia.: 3/4"
 Stem Dia.: 5/16"
 Stem Length: 1-3/8"
 GM 1983 - On
Qty: 25



Retainer-Mud Flaps
Art. No. 502.20192

Material: Black Nylon
 Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 1-3/4"
 Ford Expedition & F150 1997 - On
Qty: 25



Trim & Garnish Retainer
Art. No. 502.19846
OEM #: F2UZ-1602354AAA

Material: Black Nylon
 Bottom Head Dia: 1"
 Stem Dia: 5/16"
 Stem Length: 1-3/4"
Qty: 25

FORD
RETAINERS


Hood Insulation Retainer
Art. No. 502.14163

Material: Black Nylon
Bottom Head Dia: 1-3/4"
Stem Length: 3/4"
Stem Dia: 3/8"
Ford 1975 - On
Qty: 50



Hood Insulation Retainer
Art. No. 502.16863
OEM #: N803613S

Material: Black Nylon
Bottom Head Dia: 1-3/4"
Stem Length: 29/32"
Stem Dia: 5/16"
Ford Bronco, Explorer & Ranger 1988 - On
Qty: 25



Push-Type Retainer
Art. No. 502.14992
OEM #: N803946S

Material: Black Nylon
Head Dia: 19/32"
Stem Length: 29/32"
Fits Into: 1/4" Hole
Ford & Chrysler 1987 - On
Chrysler OEM #: 6502871
Qty: 50



Trim Panel Push-Type Retainer
Art. No. 502.18893
OEM #: N806326-S

Material: Black Nylon
Head Dia: 11/16"
Stem Length: 1/2"
Fits Into: 1/4" Hole
Qty: 15



Trim Panel Retainer
Art. No. 502.17612
OEM #: N807721-S

Material: Black Nylon
Bottom Head Dia: 5/8"
Stem Dia: 3/8"
Stem Length: 3/4"
Ford Explorer 1993 - On
Chrysler OEM #: 6504043
Qty: 50



Fender Shield Retainer
Art. No. 502.11705
OEM #: 387843-S

Material: Black Nylon
Bottom Head Dia: 19/32"
Stem Length: 5/8"
Fits Into: 1/4" hole
Ford 1978 - On
Qty: 50

FORD
RETAINERS


Weatherstrip Retainer
Art. No. 502.19425
OEM #: 385677

Material: Natural Nylon
 Bottom Head Dia: 9/32" x 1/2"
 Stem Dia: 7/32"
 Stem Length: 21/32"
Qty: 75



Headliner Retainer
Art. No. 502.8853
OEM #: C5AB-6220586A

Material: Natural Nylon
 Bottom Head Dia: 3/16" x 1/2"
 Stem Dia: 3/16"
 Stem Length: 5/8"
 Ford 1997 - On
Qty: 50



Weatherstrip Retainer
Art. No. 502.17339
OEM #: N806289-S

Material: Black Nylon
 Bottom Head Dia: 5 mm x 15mm
 Stem Dia: 4mm
 Stem Length: 12mm
 Fits Into: 1/4" hole
 Lincoln 1989 - On
Qty: 100



Weatherstrip Retainer
Art. No. 502.20770
Not available from OEM

Material: Yellow Nylon
 Head Dia: 10mm
 Stem Dia: 9mm
 Stem Length: 14.5mm
 Ford F Series Pick-Ups 2004 - On
Qty: 100



Weatherstrip Retainer
Art. No. 502.19850
OEM #: N806340-S

Material: Natural Nylon
 Bottom Head Dia: 5mm x 15mm
 Stem Dia: 5mm
 Stem Length: 8mm
 Ford F150 1999 - On
Qty: 100



Trim Panel Push-Type Retainer
Art. No. 502.20545
OEM #: N811283-S

Material: Black Nylon & Santoprene Rubber
 Head Dia: 18mm
 Stem Length: 18mm
 Fits Into: 6.3mm Hole
 Ford Expedition & Navigator 1997 - On
Qty: 25



Door Trim Panel Retainer
Art. No. 502.13470
OEM #: N802900

Material: White Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 3/4"
 Stem Dia: 5/16"
 Stem Length: 5/8"
Qty: 50



Trim Panel Retainer
Art. No. 502.20190
OEM #: W708621-S300

Material: Caramel & Natural Nylon
 Top Head Dia: 13mm
 Bottom Head Dia: 20mm
 Stem Dia: 8.5mm
 Stem Length: 16mm
 Ford Taurus & Sable 2000 - On
Qty: 25



Weatherstrip Retainer
Art. No. 502.19678

Material: White Nylon
 Head Dia: 5mm-15mm
 Stem Dia: 6mm
 Stem Length: 10mm
 Ford Windstar 1995 - On
Qty: 25

FORD
RETAINERS


Interior Trim Panel
Art. 502.11797
OEM #: 387477-S

Material: White Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 3/4"
 Stem Dia: 11/32"
 Stem Length: 9/16"
 Ford 1977 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.18848
OEM #: F58Z-16237A06-A

Material: Yellow Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 3/4"
 Stem Dia: 3/8"
 Stem Length: 11/16"
 Ford Windstar 1995 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.12565
OEM #: N801925-S

Material: Black Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 25/32"
 Stem Dia: 5/16"
 Stem Length: 5/8"
 Ford 1981 - On
Qty: 50

FORD
GROMMETS


**Headlight Door, Grille
 & Mirror Nut**
Art. No. 502.9862
OEM #: 379830-S

Material: White Nylon
 Hole: 1/4" sq Hole
 Screw Size: #8 or #10
Qty: 100



#10 Screw Size
Art. No. 502.12569
OEM #: N80176-S

Material: Black Nylon
 Ford 1981 - On
 Chrysler OEM #: 6501773
Qty: 25



Nylon Nut, #8 Screw Size
Art. No. 502.20245
OEM #: N806334-S

Material: Natural Nylon
 Head Size: 10mm x 10mm
 Fits Into: 6mm Square Hole
 Ford 1999 - On
Qty: 75



**Black Nylon Rear
 Lamp Grommet**
Art. No. 502.22474
OEM#: W717970-S300

Head Diameter: 18mm
 Stem Length: 16mm
 Overall Length: 18mm
Qty: 20



**Black Nylon Rear Lamp
 Grommet with Sealer**
Art. No. 502.22475
OEM#: W718369-S300

Head Diameter: 18mm
 Stem Length: 13mm
 Overall Length: 15.6mm
Qty: 15

FORD
SPECIALTY CLIPS/RETAINERS/MOULDING CLIPS


Trim Panel Retainer
Art. No. 502.17124
OEM #: N805155-S

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Top Head Dia: 1/2"
 Stem Dia: 11/32"
 Stem Length: 3/4"
 Ford 1985 - On
Qty: 25



Hood Insulation Retaining Clip
Art. No. 502.18458
OEM #: F1CZ-16774-A

Material: Black Nylon
 Bottom Head Dia: 14mm
 Stem: 6mm
 Stem Length: 10mm
 Fits Into: 6mm Hole
 Ford Probe & Mazda MX6 1992 - 88
 Mazda OEM #: B455-56-741
Qty: 25



Front Air Deflector Grommet
Art. No. 502.19614

Material: Black Nylon
 Head Dia: 28mm
 Hole: 13mm
 C&K Trucks 1999 - On
Qty: 25



Roof Garnish Moulding Clip
Art. No. 502.20862
OEM #: 4L3Z-1510186-AA

Material: Black Nylon
 Tip To Tip: 42mm
 Front To Back: 12mm
 Height: 21mm
 Ford Taurus 2005 - On
Qty: 15



Trim Panel Retainer
Art. No. 502.19373
OEM #: N8071545

Material: Zuca Granite (Light Grey Nylon)
 Ford 1991 - On
Qty: 50



Retainer Trunk Liner, Rear Seat Carpet & Radiator Side Shield
Art. No. 502.18379
OEM #: W701380SSW

Material: Black Nylon
 Bottom Head Dia: 23/32"
 Stem Dia: 5/16"
 Stem Length: 7/8"
 Ford Contour & Mercury Mystique 1995-On
Qty: 25



Rocker Panel Moulding Clip
Art. No. 502.20358
OEM #: F6DZ-5410186-AA

Material: Black Nylon
 Head Size: 13mm x 39mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
 Sable, Taurus & Lincoln LS2000 1996 - On
Qty: 10



Rocker Panel Ground Effects Moulding Clip
Art. No. 502.19441
OEM #: FITZ-7810186-A

Material: Black Nylon
 Explorer, Expedition & F150 1991-On
Qty: 25

FORD
HARDWARE/BOLTS/SCREWS


**Hex Head Sems® w/
Dog Point Class 9.8**
Art. No. 502.12160
OEM #: N-606676-S2, S100

Material: Phosphate
Dia.: M6-1.0 x 22mm
Washer O.D.: 19mm (3/4")
Hex: 8mm
Qty: 50



**Hex Head Sems® w/
Dog Point Class 9.8**
Art. No. 275.100
OEM #: N606677-S36

Material: Zinc & Yellow
Dia: M6x1.0 x 28mm
Washer O. D.: 19mm
Hex: 8mm
Qty: 25



**Bolt-Bumper Stainless Steel
Capped Pan Head w/o Nuts**
Art. No. 502.16986
OEM #: 14003784

Material: Zinc
Head Dia: M8 -1.25 x 25mm
Shoulder Length: 3mm
Qty: 25



**Internal Torx Drive
Sems® Truck Mirror
Mounting Bracket Bolt**
Art. No. 502.14947
OEM #: N800928-S45,
N806345-S47,
-S433, N801851-S

Material: Chrome Plated
Dia: M6-1.0 x 26mm
Head Dia: 14mm
Washer O.D T-30 Dr.: 13mm
Qty: 25



PH Pan Head Sems®
Art. No. 502.20271
OEM #: N801603-S2)

Material: Phosphate
Screw Size M4.6-1.41 x 20mm
Washer Head Dia: 5/8"
Qty: 50



Hex Hd. Sems® with Dog Pt.
Art. No. 502.17035
OEM #: 384931-S36

Material: Zinc & Yellow Dichromate
5/16"-18 x 1-1/16"
Washer Head Dia: 7/8"
Hex: 1/2"
Qty: 25



Hex Washer Head
Art. No. 502.13021
OEM #: 55914-S2

Material: Phosphate
Washer Head Dia: 1/2"
Hex: 3/8"
Qty: 100



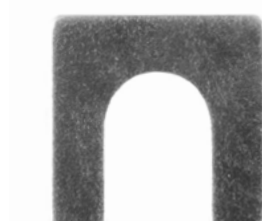
Oil Drain Plug Rubber Gasket
Art. No. 502.20453
OEM #: F5TZ-6734-BA

I.D.: 13mm
O.D.: 22mm
Qty: 10



Front End Moulding Cup
Art. No. 502.20355
OEM #: W705849-S300

Material: Nylon
Top Head Size: 1/2" x 13/16"
Bottom Head Size: 11/16" x 25/32"
Stem Length: 3/8"
Ford 2000 - On
Qty: 10



**Caster and Camber and Ball
Joints**
Art. No. 502.5076

Material: Zinc
Size: 1-1/8" x 1-1/8"
Slot: 1/2"
Thickness: 1/16"
Qty: 50



**Caster and Camber and Ball
Joints**
Art. No. 502.5077

Material: Zinc
Size: 1-1/8" x 1-1/8"
Slot: 1/2"
Thickness: 1/8"
Qty: 50



**M6-1.0 Specialty
Insert with Sealer**
Art. No. 502.20401
OEM #: W706176-S309,
W708384-S309

Material: Zinc & Yellow
Head Dia: 13mm
Grip: .5mm - 4.2mm
Hex Size: 9.5mm
Roof Rack Ford Escape, Excursion,
Expedition, Explorer, Navigator
& Mountaineer 2000 - On
Qty: 15

FORD
HARDWARE/BOLTS/SCREWS


PH Washer Head Tapping Screw
Art. No. 502.13025
OEM #: 56910-S2

Material: Phosphate
 #8 x 1/2"
 Washer Head Dia: 31/64"
Qty: 100



PH Washer Head Tapping Screw
Art. No. 502.13711
OEM #: 11505104

Material: Phosphate
 Screw Size: #8 x 5/8"
 Washer Head Dia: 34/64"
Qty: 100



PH Washer Head Tapping Screw
Art. No. 502.13026
OEM #: 56916-S2

Material: Phosphate
 #8 x 3/4"
 Washer Head Dia: 31/64"
Qty: 100



Metric Body Bolt. Hex Head Sems@ w/Dog Point. CLASS: 9.8
Art. No. 502.15780
OEM #: N606690-S2

Material: Phosphate
 Dia: M8-1.25 x 33mm
 Washer O.D.: 22mm
 Hex: 10mm
Qty: 50



Body Bolt. Hex Head Sem.
Art. No. 278.506

Material: Phosphate
 Dia: 5/16-18 x 1"
 Length: 1"
 Washer: 7/8"
 Hex: 1/2"
Qty: 25



PH Oval Head Washer, Wheel Opening Mouldings
Art. No. 502.10642

Material: Zinc
 Dia: #8 x 3/8"
 Washer O.D.: 3/8"
Qty: 100



Metric Hex Flange Nut
Art. No. 502.17495
OEM #: N620391-S36

Material: Zinc
 Thread Size M4-.7
 Flange O.D.: 14mm
 Height: 6mm
 Hex: 8mm
Qty: 50



Metric Flange Lock Nut
Art. No. 502.15316
OEM #: N620480

Material: Phosphate
 Thread Size: M6-1.0
 Flange O.D.: 14mm
 Height: 7.5mm
 Hex: 10mm
Qty: 50



Metric Free Spinning Washer Nuts
Art. No. 502.15328
OEM #: N621905

Material: Phosphate
 Thread Size: M6-1.0
 Type B
 Washer O.D.: 16mm
 Height: 8.5mm
 Hex: 11mm
Qty: 50



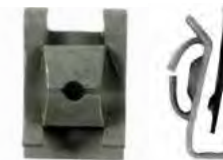
M5-.8 Specialty Insert with Sealer
Art. No. 502.20421
OEM #: N811257-S100

Material: Zinc & Olive Drab
 Grip: .5mm-2.5mm,
 Head Dia: 10mm,
 Hex Size: 7mm
 General Purpose
 Ford Escape, Excursion,
 Expedition, Explorer, Navigator
 & Mountaineer 2001 - On
Qty: 10



Metric Free Spinning Washer Nut
Art. No. 502.15326
OEM #: N621903

Material: Phosphate
 Thread Size: M5-0.8
 Type B
 Washer O.D.: 15mm
 Height: 7mm
 Hex: 10mm
Qty: 50



"U" Type Special Nuts
Art. No. 502.14526
OEM #: N802538-S100

Material: Green Phosphate
 Screw Size: #8
 Panel Range: 1/16" - 5/32"
 Center of hole to Edge: 5/16"
 Width: 17/32"
 Length: 51/64"
Qty: 50

FORD
HARDWARE/BOLTS/SCREWS


Extruded "U" Nuts
Art. No. 502.12669
OEM #: 1016937, 11503957;
N623336-S2, -S53 & -S100

Material: Phosphate
 Center of Hole to Edge:
 13.5mm (17/32")
 Screw Size: M6-1.0
 Panel Range: .80mm-4.00mm
 (.30-.160")
Qty: 50



Extruded "U" Nuts
Art. No. 502.10050
OEM #: 45263-S2

Material: Phosphate
 Center of Hole to Edge: 17/32"
 Screw Size: 1/4"-20mm
 Panel Range: .025"-.150"
Qty: 50



Extruded "U" Nuts
Art. No. 502.10051
OEM #: 45267, 1494257

Material: Phosphate
 Center of Hole to Edge: 25/32"
 Screw Size: 1/4"-20
 Panel Range: .025"-.150"
Qty: 50



Extruded "U" Nut
Art. No. 502.10054
OEM #: 1494254, 12337873,
45265-S2

Material: Phosphate
 Screw Size: 3/8"-16
 Panel Range: .050-.200"
 Center of Hole to Edge: 3/4"
Qty: 25



Spring Type U-Nut
Art. No. 502.9879
OEM #: 9440178, 11504531,
381863-S2

Material: Phosphate
 Center of Hole to Edge: 5/8"
 Screw Size: #8
 Panel Range: .025"-.150"
Qty: 100



Extruded "U" Nuts
Art. No. 502.11629
OEM #: N623333-S2

Material: Phosphate
 Center of Hole to Edge: 14.5mm
 (9/16")
 Screw Size: M8-1.25
 Panel Range: .80mm-4.0mm
 (.30-.160")
 GM OEM #: 11500660, 11502617
Qty: 50



Extruded "U" Nuts
Art. No. 502.11630
OEM #: N6233343-S2 & S100

Material: Phosphate
 Center of Hole to Edge:
 20mm (13/16")
 Screw Size: M8-1.25
 Panel Range: .80mm-4.50mm
 (.30-.170")
 GM OEM #: 11500661, 11503317
Qty: 50



Extruded "U" Nuts
Art. No. 502.10052
OEM #: 10008002 45268-S2

Material: Phosphate
 Screw Size: 5/16"-18
 Panel Range: .025"-.150"
 Center of Hole to Edge: 7/8"
Qty: 50



Extruded "U" Nut
Art. No. 502.10053
OEM #: 45264

Material: Phosphate
 Screw Size: 5/16"-18
 Panel Range: .025"-.150"
 Center of Hole to Edge: 9/16"
 Chrysler OEM #: 6023171
Qty: 50

FORD
NYLON RIVETS


Blind Nylon Rivet
Art. No. 502.13750
OEM #: N803043-S

Material: Black Nylon
 Fits Into: 1/4" Hole
 Panel Range: 5/32"-13/32"
 GM OEM #: 14063981
 Chrysler OEM #: 6500911
Qty: 50



Blind Nylon Rivet
Art. No. 502.13747
OEM #: N804189S

Material: Black Nylon
 Fits Into: 13/64" Hole
 Panel Range: 1/16-11/64"
 GM OEM #: 20423647
Qty: 25



Blind Nylon Rivet
Art. No. 502.13751
OEM #: N803866-S

Material: Black Nylon
 Fits Into: 1/4" Hole
 Panel Range: 5/32"-13/32"
 GM OEM #: 10184895
 Chrysler OEM #: 6501559
Qty: 25



Black Nylon Rivet
Art. No. 502.17101
OEM #: N804675S

Material: Black Nylon
 Fits Into: 1/4" Hole
 Panel Range: 5/16"-15/32"
 Chrysler OEM #: 4370138,
 6503860
Qty: 25



Blind Nylon Rivet
Art. No. 502.13748
OEM #: N804343S

Material: Black Nylon
 Fits Into: 13/64" Hole
 Panel Range: 1/8"-15/64"
 GM OEM #: 20432975
 Volkswagen OEM #:
 175-853-57701C
 Chrysler OEM# 6503800
Qty: 25



Blind Nylon Rivet
Art. No. 502.15187
OEM #: N804583S

Material: Black Nylon
 Fits Into: 4mm Hole
 Panel Range: 6mm-10.5mm
Qty: 50

FORD
SPECIALTY RIVETS


Window Regulator
Art. No. 502.12658
OEM #: 389268-S100

Material: Aluminum Rivet/Steel
Mandrel (Zinc & Yellow)
Dia: 1/4"
Flange Dia: 1/2"
Grip Range: 11/16"-3/4"
GM & Ford 1979 - On
GM OEM #: 2338158, 20184399
Qty: 25



Rivet Bumper Fascia
Art. No. 502.19396
OEM #: N808426-S100

Material: Aluminum Rivet
(Black)/Aluminum
Mandrel
Dia: 1/4"
Flange Dia.: 1/2"
Grip Range: 1/8" - 1/4"
Ford Taurus & Sable 1996 - On
Qty: 25



Fascia Bumper Rivet
Art. No. 502.14127
OEM #: 388664-S100

Material: Black Aluminum
Rivet/ Aluminum
Mandrel
Dia: 3/16"
Flange Dia: 9/16"
Grip Range: 3/8"-1/2"
Ford 1982 - On
Qty: 50



**Split Type Rivet - Attachment
of Bumper Cover to Bumper
& Front License Plate
Bracket to Bumper Cover**
Art. No. 502.17639
OEM #: N806830-S100

Material: Aluminum Rivet
(Black)/Aluminum
Mandrel
Dia: 1/4"
Flange Dia: 11/16"
Grip Range: 3/16"-3/8"
Ford 1992 - On, Chrysler 1993 - On
Chrysler OEM #: 6035201
Qty: 20



Rivet Bumper Assembly
Art. No. 502.12652
OEM #: 388446-S100

Material: Steel Rivet (Black)
Steel Mandrel
Dia: 1/4"
Flange Dia: 3/4"
Grip Range: 1/8"-1/4"
Ford Escort & Lynx 1981 - On
Qty: 25



**Peel Type Rivet Door
Handle Assembly**
Art. No. 502.12653
OEM #: 388047-S102

Material: Aluminum Rivet (Black)
Steel Mandrel
Dia: 1/4"
Flange Dia: 1/2"
Grip Range: 3/32"-1/8"
Ford 1981 - On
Qty: 25



**Split Type Rivet, Wheel House
Moulding & General Purpose**
Art. No. 502.17121
OEM #: N805596-S100

Material: Black Aluminum Rivet/
Aluminum Mandrel
Dia: 3/16"
Flange Dia: 7/16"
Grip Range: 5/64"-15/64"
GM OEM #: 25618730
Qty: 25



Peel Type Stainless Steel Rivet
Art. No. 502.11104
OEM #: 383229-S

Material: Stainless Steel Mandrel
Dia: 1/8"
Flange Dia: 3/16"
Grip Range: 3/16" - 1/4"
Qty: 100

FORD
SPECIALTY RIVETS


Grille & Bumper Specialty Rivet
Art. No. 502.19111
OEM #: N807168-S

Material: Aluminum Rivet & Mandrel
 Dia: 3/16"
 Flange Dia: 3/4"
 Grip Range: 11/16" - 13/16"
 Ford Windstar 1995-On
Qty: 25



Peel-Type Rivet
Art. No. 502.19458
OEM #: N808689-S417

Material: Aluminum Rivet (Black)
 Aluminum Mandrel
 Dia: 1/4"
 Grip: 1/8"-21/64"
 Flange Dia: 3/4"
 Door Lock Actuator Ford Continental,
 Crown Victoria, F Series Truck,
 Grand Marquis, Mark VII, Mustang,
 Ranger, Sable, Taurus, Town Car &
 Windstar 1995-On
Qty: 25



Peel-Type Rivet
Art. No. 502.19456
OEM #: W525175-S

Material: Aluminum Rivet Steel Mandrel
 (Zinc)
 Dia: 1/4"
 Grip: 25/64" - 21/32"
 Flange Dia: 5/8"
 Front Door Window Ford Continental,
 Crown Victoria, Explorer,
 Grand Marquis,
 Mark VIII, Mustang, Ranger, Sable,
 Taurus, Town Car & Windstar 1996-On
Qty: 25



Peel Type Rivet
Art. No. 502.11621
OEM #: 385323-S100

Material: Aluminum Rivet
 & Steel Mandrel
 Dia: 1/4"
 Flange Dia: 1/2"
 Grip Range: 33/64" - 19/32"
 Ford, GM, Chrysler 1976 - On
 GM OEM #: 9437938
 Chrysler OEM #: 6031091
Qty: 50



Front Bumper Split-Type Rivet
Art. No. 502.19516
OEM#: N804851-S100

Material: Aluminum Rivet
 (Black)/Steel Mandrel
 Dia: 1/4"
 Flange Dia: 9/16"
 Grip Range: 3/64"-1/4"
 Ford Taurus 1996 - On
Qty: 15



**Attachment Of Door Glass
 Moulding Rivet**
Art. No. 502.18304

Material: Aluminum Rivet
 & Steel Mandrel
 Dia: 1/8"
 Flange Dia: 3/8"
 Grip Range: 1/16"-1/8"
 Ford 1993 - On
Qty: 50



Door Moulding Rivet
Art. No. 502.19419
OEM #: N811460-S100

Material: Steel Rivet
 (Black) Steel Mandrel
 (Zinc & Yellow)
 Dia: 1/8"
 Flange Dia: 3/8"
 Grip Range: 1/8" - 3/16"
 Ford Taurus 1996 - On
Qty: 25



**Aluminum Rivet &
 Steel Mandrel
 Bumper & Lower Deflector
 Specialty Rivet**
Art. No. 502.22540
OEM#: W525157-S300

Diameter: 4.8mm (3/16")
 Flange Diameter: 9.3mm (3/8")
 Grip Range: 3.20mm -
 6.35mm (.126" - .250")
Qty: 50

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

FORD
HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES


Bumper-Hood Kit includes Nut w/6mm Threaded Insert Rubber Bumper Metal Stool Adjuster
Art. No. 502.16832
OEM #: E83Z-16758-A

Ford 1989 - On
Qty: 2 Sets



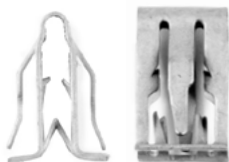
Hood Insulation Retainer
Art. No. 502.19655
OEM #: 386553-S

Material: Black Nylon
 1975 - On
Qty: 50



Hood Insulation Retainer
Art. No. 502.19338
OEM #: N808846-S

Material: Black Nylon
 Head Dia: 1-1/4"
 Stem Length: 11/16"
 Stem Dia: 5/16"
 Chrysler Sebring 1996-On Ford Taurus, Sable & Mark VIII 1996-On
 Chrysler OEM #: 6504098
Qty: 40



Front Door Scuff Plate Retainer
Art. No. 502.19421
OEM #: F7UZ-1513284-BA

Material: Zinc Organic
 Econoline Van
 E150/350
 1997 - On
Qty: 25



Engine Mount Heat Shield Retainer
Art. No. 502.14757
OEM #: N804448

Material: Black Nylon
 Head Dia: 1/2"
 Stem Dia: 1/4"
 Ford Taurus & Sable 1986 - On
Qty: 25



Windshield & Rear Window Reveal Moulding Clip
Art. No. 502.8941
OEM #: C5ZZ-6543413-B

Ford 1966 - On
Qty: 50

| OEM No. | Art. No. | Type |
|----------|------------------|--|
| 10053182 | 502.14997 | Push Type Retainer |
| 10053388 | 502.15045 | Bumper Fascia Retainer |
| 10077283 | 502.15042 | Bumper Fascia Retainer |
| 10089262 | 502.14987 | Push Type Retainer |
| 10098645 | 502.18682 | Front Door Lower Moulding Retainer |
| 10109689 | 502.15490 | Blind Nylon Rivet |
| 10121502 | 502.17664 | Shield Retainer |
| 10134407 | 502.18030 | PushType Retainer |
| 10139822 | 502.14991 | Push Type Retainer |
| 10140480 | 502.16835 | Rear Bumper Fascia Retainer |
| 10153057 | 502.16695 | Door Trim Panel Retainer |
| 10157900 | 502.16622 | Front Bumper Fascia Retainer |
| 1016937 | 502.12669 | Metric U Nut |
| 10169777 | 502.20344 | Weatherstrip Retainer |
| 10184895 | 502.13751 | Blind Nylon Rivet |
| 10195515 | 502.14995 | Push Type Retainer |
| 10246149 | 502.19788 | Rocker Panel Push Type Retainer |
| 10281487 | 502.20395 | M6-1.0 Specialty Insert |
| 10285935 | 502.19270 | Trim Panel Retainer |
| 10301966 | 502.20365 | Cowl Vent Push Type Retainer |
| 10323057 | 502.20607 | Rocker Moulding Retainer |
| 10408480 | 502.19527 | Door Garnish Moulding & Pillar Trim Panel Retainer |
| 10421018 | 502.20338 | Trim Panel Retainer |
| 10423553 | 502.20481 | Moulding Clip |
| 10425306 | 502.20365 | Cowl Vent Push Type Retainer |
| 10431524 | 502.19757 | Rocker Panel Moulding Clip |
| 10431761 | 502.19821 | Rocker Panel Moulding Clip |
| 11500086 | 502.12350 | Hex Washer Head |
| 11500434 | 502.15373 | Hex Head Sems® |
| 11500658 | 502.11628 | Spring Type Fold Nut |
| 11500660 | 502.11629 | Extrude "U" Nuts |
| 11500661 | 502.11630 | Extrude "U" Nuts |
| 11500662 | 502.11631 | Extrude "U" Nut M10-1.5 Screw Size |
| 11500663 | 502.18339 | Extruded "U" Nuts M10-1.5 Screw Size |
| 11500971 | 502.12348 | Hex Washer Head |
| 11500994 | 502.12057 | Hex Head Sems® |
| 11500997 | 502.12354 | Hex Head Sems® |
| 11501188 | 502.13614 | Body Bolt Hex Head Sems® |
| 11501193 | 502.11641 | Hex Head Sems® |
| 11501800 | 502.15334 | Metric Free Spinning Washer Nuts |
| 11501835 | 502.12253 | Self Threading Nut |
| 11501836 | 502.12255 | Self Threading Nuts |
| 11501883 | 502.12059 | PH Oval Washer Head Pozi-Drive |
| 11501884 | 502.12060 | PH Washer Head |
| 11501889 | 502.11644 | Metric Hex Flange Nuts |
| 11501896 | 502.12061 | PH Round Washer Head Pozi-Drive |
| 11501903 | 502.12062 | PH Washer Head Pozi-Drive |
| 11502483 | 502.12097 | PH Pan Head Sems® |
| 11502605 | 275.107 | Body Bolt Hex Washer Head |
| 11502617 | 502.11629 | Extrude "U" Nuts |
| 11502624 | 275.107 | Body Bolt Hex Washer Head |
| 11502790 | 275.103 | Body Bolt Hex Head Sems® |
| 11502941 | 502.12693 | Hex Head Sems® |
| 11503317 | 502.11630 | Extrude "U" Nuts |
| 11503395 | 502.12741 | Hex Head Sems® |
| 11503396 | 502.12742 | Hex Head Sems® |
| 11503483 | 502.12742 | Hex Head Sems® |
| 11503503 | 502.12097 | PH Pan Head Sems® |
| 11503578 | 502.18261 | Hex Washer Head Sems® |
| 11503619 | 502.13613 | Body Bolt Hex Head Sems® |
| 11503632 | 502.12336 | Body Bolt Hex Head |
| 11503695 | 502.15335 | Metric Free Spinning Washer Nuts |
| 11503714 | 502.11864 | Extrude "U" Nuts |
| 11503715 | 502.12575 | Extrude "U" Nuts |
| 11503716 | 502.11864 | Extrude "U" Nuts |
| 11503754 | 502.12596 | Spinning Washer Nuts |
| 11503756 | 502.12596 | Spinning Washer Nuts |
| 11503785 | 502.18261 | Hex Washer Head Sems® |
| 11503812 | 502.12064 | Hex Head Sems® |
| 11503815 | 502.12322 | Hex Head Sems® |
| 11503892 | 502.15373 | Hex Head Sems® |
| 11503957 | 502.12669 | Metric U Nut |
| 11503982 | 275.102 | Body Bolt Hex Head Sems® |
| 11504056 | 502.12738 | Washer Hex Head Sems® |
| 11504493 | 275.201 | Body Bolt |

| OEM No. | Art. No. | Type |
|----------|------------------|--|
| 11504531 | 502.9879 | Spring Type U-Nut |
| 11504570 | 275.105 | Hex Head Sems® |
| 11504978 | 502.12666 | Extrude "U" Nuts |
| 11504981 | 502.12068 | Hex Head Sems® |
| 11505022 | 502.12351 | Hex Washer Head Sems® |
| 11505044 | 502.18416 | Body Bolt Hex Head Sems® |
| 11505182 | 502.14053 | Tapping Screws |
| 11505596 | 502.18338 | Extruded "U" Nuts |
| 11506174 | 502.12693 | Hex Head Sems® |
| 11508023 | 502.12322 | Hex Head Sems® |
| 11508241 | 502.12575 | Extrude "U" Nuts |
| 11509511 | 275.107 | Body Bolt Hex Washer Head |
| 11516807 | 502.20741 | Split-Type Rivet |
| 11517803 | 502.16622 | Front Bumper Fascia Retainer |
| 11517992 | 502.20615 | Fender Liner Retainer |
| 11518017 | 502.20632 | Push Type Retainer |
| 11518201 | 502.20281 | Fascia Retainer |
| 11518357 | 502.20377 | Rocker Panel Moulding Clip |
| 11519444 | 502.20359 | Push Type Retainer |
| 11519952 | 502.20422 | M6-1.0 Specialty Insert |
| 11561368 | 502.20888 | Fender Wheel & Bumper Push-Type Retainer |
| 11561878 | 502.17222 | Push Type Retainer |
| 11562563 | 502.21128 | Moulding Clip |
| 11588650 | 502.20883 | Garnish, Interior Trim, Bezel & Scuff Plate Fastener |
| 11589176 | 502.20972 | Rocker Panel Moulding Clip |
| 11589181 | 502.21199 | Bumper and Fender Apron Retainer |
| 11589289 | 502.20988 | Air distributor & windshield defroster push type retainer |
| 11589290 | 502.20880 | Air inlet grill, bumper fascia, front brake calliper cooling duct |
| 11589291 | 502.20989 | Air dam & grill push type retainer |
| 11589292 | 502.20991 | Bumper fascia flares & air dam push type retainer |
| 11589293 | 502.20889 | Cowl Vent, & Fender Push Type Retainer |
| 11589294 | 502.20992 | Bumper fascia, fender and toe / floor panel push type retainer |
| 11589295 | 502.20993 | Fender flare, gas tank & panel attachment push type retainer |
| 11589296 | 502.20994 | Panel attachment & general purpose push type retainer |
| 11609417 | 502.20826 | Fender Apron Push-Type Retainer |
| 12040983 | 502.19851 | Wire Loom Routing Clip |
| 12040984 | 502.19440 | Wire Loom Routing Clip |
| 12160858 | 502.20397 | Wire Loom Routing Clip |
| 12337868 | 502.15518 | Door Lock Rod Clip |
| 12337873 | 502.10054 | Extrude "U" Nut |
| 12337915 | 502.15490 | Blind Nylon Rivet |
| 12337920 | 502.12737 | Door Panel Retainer |
| 12338074 | 502.16936 | Door Upper Hinge Splined O.D. Bushing |
| 12338153 | 502.12658 | Window Regulator |
| 1254815 | 502.11838 | #6 Screw Size Grommet |
| 1370853 | 502.12735 | Headlight Bezel Nut |
| 14003784 | 502.16986 | Stainless Steel Capped Pan Head w/o Nuts |
| 14007510 | 502.13231 | Hex Washer Head w/ Sems® |
| 14007940 | 502.12999 | Special Purpose Jack Nuts |
| 14011722 | 278.504 | Body Bolt Hex Head Sems® |
| 14019205 | 502.12567 | Front Fender Mudskirt Retainer |
| 14019226 | 502.14011 | Radiator Overflow Bottle/Windshield Washer Bottle Retainer |
| 14027471 | 502.12759 | Trim Panel Retainer |
| 14037239 | 502.18926 | Tailgate Rod Clip |
| 14040999 | 502.16322 | Extrude "U" Nuts |
| 14045480 | 502.14010 | Fascia Retainer |
| 14048060 | 502.13005 | Well Nuts |
| 14063981 | 502.13750 | Blind Nylon Rivet |
| 14071289 | 502.14011 | Radiator Overflow Bottle/Windshield Washer Bottle Retainer |
| 14074081 | 502.14036 | Rear Hood Seal Retainer |
| 14093311 | 502.10831 | Mud Shield Retainer |
| 14103461 | 502.15043 | Bumper Fascia Retainer |
| 1494254 | 502.10054 | Extrude "U" Nut |
| 1494258 | 502.8814 | Extrude "U" Nut |
| 15056810 | 502.20362 | Bumper Fascia Retainer |
| 15076791 | 502.20444 | Trim Panel Retainer |
| 15078238 | 502.20860 | Radiator Grille & Bumper Cover Fastener |
| 15149708 | 502.19639 | Radiator, Wheelhouse, Fender & Front Bumper Cover Push-Type Retainer |
| 15153415 | 502.19615 | Rear Bumper Cover Push Type Retainer |
| 15296830 | 502.20990 | Fascia & General Purpose Push Type Retainer |
| 15545178 | 502.18926 | Tailgate Rod Clip |
| 15562609 | 502.16937 | Door Lower Hinge, Splined O.D. Bushing |
| 15562610 | 502.17976 | Door Hinge Pin Retainer |
| 15588078 | 502.14032 | Pillar Cover Retainer |
| 15591860 | 502.17204 | Door Hinge Pin |

| OEM No. | Art. No. | Type |
|-----------|------------------|--|
| 15596280 | 502.14037 | Cowl Vent Nut |
| 15600382 | 502.12992 | Door Trim Panel Retainer |
| 15607165 | 502.15970 | Trim Panel Retainer |
| 15612948 | 502.15970 | Trim Panel Retainer |
| 15653790 | 502.19781 | Door Hinge Pin |
| 15672330 | 502.14998 | Push Type Retainer |
| 15685099 | 502.20415 | M6-1.0 Specialty Insert with sealer |
| 15686142 | 502.18153 | Grille Nut |
| 15691493 | 502.16936 | Door Upper Hinge Splined O.D. Bushing |
| 15707256 | 502.19317 | Front Fender Ext. & License Plate Bracket |
| 15733971 | 502.19613 | Front Air Deflector Retainer |
| 15748479 | 502.20268 | Garnish Moulding Fastener |
| 15773445 | 502.14753 | Radiator Shroud & Trim Retainer |
| 15955172 | 502.13752 | Blind Nylon Rivet |
| 15956470 | 502.14998 | Push Type Retainer |
| 15960325 | 502.18353 | Door Trim Panel Push Type Retainer |
| 15993201 | 502.16622 | Front Bumper Fascia Retainer |
| 1605396 | 502.11146 | Radiator Yoke, Fender, & Bumper Shield Retainer |
| 1619321 | 502.12137 | Radiator Apron Panel Retainer |
| 1631564 | 502.15478 | Bumper Fascia Retainer |
| 1640810 | 502.15373 | Hex Head Sems® |
| 1644290 | 502.18948 | Hood Insulation, Rear Bumper Fascia & Door Trim Plate Retainer |
| 16500308 | 502.14016 | Tail Light Retainer |
| 16632192 | 502.16937 | Door Lower Hinge, Splined O.D. Bushing |
| 16632193 | 502.16936 | Door Upper Hinge Splined O.D. Bushing |
| 16662182 | 502.19519 | Front Bumper, Grille Mounting & Headlight Cover Fastener |
| 1689827 | 502.12095 | PH Washer Head |
| 20032850 | 502.11679 | Mud Shield Retainer |
| 20046147 | 502.14559 | Door Hinge Pin |
| 20064875 | 502.15456 | Hood Insulation Retainer |
| 20130258 | 502.13003 | Well Nuts |
| 20184399 | 502.12658 | Window Regulator |
| 20374473 | 502.12737 | Door Panel Retainer |
| 20413107 | 502.11612 | Weatherstrip Fastener |
| 20421672 | 502.13752 | Blind Nylon Rivet |
| 20421800 | 502.12992 | Door Trim Panel Retainer |
| 20423550 | 502.15774 | PH Washer Head |
| 20423647 | 502.13747 | Blind Nylon Rivet |
| 20429500 | 502.14553 | Bushing, Splined O.D. |
| 20432975 | 502.13748 | Blind Nylon Rivet |
| 20433026 | 502.13753 | Blind Nylon Rivet |
| 20451401 | 502.13461 | Retains Conduit to Sheet Metal Retainer |
| 20452072 | 502.13996 | Exterior Body Retainer |
| 20452072 | 502.14753 | Radiator Shroud & Trim Retainer |
| 20455900 | 502.14006 | Moulding Retainer |
| 20510029 | 502.13993 | Body Retainer |
| 20511451 | 502.13454 | Cowl Vent Retainer |
| 205-14862 | 502.15367 | Screen Shroud Vent Retainer |
| 20570245 | 502.13994 | Splash Shield, Seat Cushion & Spare Tire Retainer |
| 20582532 | 502.18392 | Door Lock Rod Clip |
| 20582533 | 502.18393 | Door Lock Rod Clip |
| 20590899 | 502.13996 | Exterior Body Retainer |
| 20603072 | 502.11067 | Wind shield & Rear Window Reveal Moulding Clip |
| 20635065 | 502.13994 | Splash Shield, Seat Cushion & Spare Tire Retainer |
| 20664092 | 502.14753 | Radiator Shroud & Trim Retainer |
| 20699808 | 502.14921 | Door Weatherstrip Retainer |
| 20732399 | 502.10831 | Mud Shield Retainer |
| 20734005 | 502.17092 | Trim Panel Retainer |
| 21030249 | 502.17216 | Push Type Retainer |
| 21039129 | 502.17975 | Hood Insulation Retainer |
| 21042098 | 502.14987 | Push Type Retainer |
| 21047094 | 502.16816 | Push Type Retainer |
| 21075686 | 502.17222 | Push Type Retainer |
| 21077123 | 502.19801 | Wheel Opening Moulding Push Type Retainer |
| 21077131 | 502.17616 | Bumper Fascia Push Type Retainer |
| 21094146 | 502.16818 | Trim Panel Retainer |
| 21095797 | 502.18896 | Bumper Fascia Retainer |
| 22189414 | 502.20360 | Engine Compartment & Front End Retainer |
| 22512276 | 502.12766 | Front End Stone Shield Retainer |
| 22531616 | 502.11631 | Extrude "U" Nut M10-1.5 Screw Size |
| 22535007 | 502.15044 | Bumper Fascia Retainer |
| 22538004 | 502.14993 | Push Type Retainer |
| 22542705 | 502.15045 | Bumper Fascia Retainer |
| 22603384 | 502.19820 | Rocker Panel Moulding Clip |
| 14013246 | 502.13960 | Headlight Bezel Nut |

| OEM No. | Art. No. | Type |
|--------------|------------------|---|
| 22642756 | 502.20262 | Trim Retainer |
| 22657634 | 502.19788 | Rocker Panel Push Type Retainer |
| 22677979 | 502.20666 | Trim Push Type Retainer |
| 22677980 | 502.20666 | Trim Push Type Retainer |
| 25016383 | 502.11680 | Dash Panel Retainer |
| 25603960 | 502.18389 | Radiator Baffle Retainer |
| 25609048 | 502.17641 | Blind Rivet |
| 25618730 | 502.17121 | Split Type Rivet, Wheel House Moulding & General Purpose |
| 25631448 | 502.19417 | Screw Square Head |
| 25680782 | 502.14991 | Push Type Retainer |
| 25693852 | 502.19822 | Rocker Panel Moulding Clip |
| 25724529 | 502.20774 | Rocker Moulding & Grille Moulding Clip |
| 3065575 | 502.11796 | Door Trim Panel Retainer |
| 3078511 | 502.11130 | Hood Insulation Retainer |
| 332364 | 502.10831 | Mud Shield Retainer |
| 347347 | 502.13450 | Front Lights #8 Screw Size |
| 3540146 | 502.17640 | Channel Retainer Rivet |
| 3548011 | 502.17640 | Channel Retainer Rivet |
| 3548804 | 502.18685 | License Plate Bracket & Bumper Fascia Retainer |
| 363137 | 502.16017 | Trim Panel Retainer |
| 367292 | 502.12995 | Jack Nuts |
| 3783006 | 502.2558 | License Plate Nut |
| 379831-5 | 502.8814 | Extrude "U" Nut |
| 380370 | 502.8418 | License Plate Nut |
| 380382 | 502.9829 | Headlight Bezel to Body Nut |
| 3816659 | 773.14547 | Routing Clip |
| 381818-52 | 502.9880 | Spring Type U-Nut |
| 381863-52 | 502.9879 | Spring Type U-Nut |
| 3893980 | 502.10330 | Front End & Instrument Panel Nut |
| 3907444 | 502.11719 | #1/4 Screw Size License Plate Nut |
| 3919773 | 502.11691 | Headlight Bezel Nut |
| 3977775 | 502.11130 | Hood Insulation Retainer |
| 3986997 | 278.504 | Body Bolt Hex Head Sems® |
| 411700 | 502.11721 | Trim Panel Retainer |
| 4234830 | 502.15518 | Door Lock Rod Clip |
| 45265-52 | 502.10054 | Extrude "U" Nut |
| 4755299 | 502.11719 | #1/4 Screw Size License Plate Nut |
| 4755299 | 502.8435 | 1/4" Screw Size License Plate Nut |
| 4876498 | 502.10744 | Weatherstrip Retainer |
| 528846 | 502.13004 | Well Nuts |
| 5480852 | 502.20756 | Rocker Panel Moulding Clip with Sealer |
| 5973400 | 502.12757 | Fascia Retainer |
| 6270163 | 502.10832 | Fender & Bumper Shield Retainer |
| 6271989 | 502.14559 | Door Hinge Pin |
| 796255 | 502.11349 | Door Panel Retainer |
| 8731909 | 502.11120 | Door Weatherstrip Retainer |
| 88970494 | 502.20577 | Rocker Panel & Garnish Moulding Push-Type Retainer |
| 88973676 | 502.20577 | Rocker Panel & Garnish Moulding Push-Type Retainer |
| 89025539 | 502.20485 | Truck Door Hinge Pin & Bushing Repair Kit. |
| 8911472 | 773.14546 | Routing Clip |
| 8917320 | 773.14547 | Routing Clip |
| 9420052 | 502.12097 | PH Pan Head Sems® |
| 9424837 | 502.9880 | Spring Type U-Nut |
| 9431530 | 502.9880 | Spring Type U-Nut |
| 9432137 | 502.16687 | Steel Mandrel Countersunk Head Trunk Lock Swivel Emblem Rivet |
| 9432552 | 502.16686 | Multi Purpose Rivet |
| 9433043 | 502.11628 | Spring Type Fold Nut |
| 943348 | 235.12 | Stainless Steel Capped Pan Head w/o Nuts |
| 9436175 | 502.11620 | Window Regulator Rivet |
| 9439719 | 502.12657 | Specialty Rivet |
| 9440178 | 502.9879 | Spring Type U-Nut |
| 9442361 | 502.17641 | Blind Rivet |
| 95005064 | 502.14144 | Trim Panel Retainer |
| 96057847 | 502.17383 | Radiator Grille & Trim Panel Push-Type Retainer |
| 9606232 | 502.11067 | Wind shield & Rear Window Reveal Moulding Clip |
| 9662950 | 502.11067 | Wind shield & Rear Window Reveal Moulding Clip |
| 9669486 | 502.11855 | Side Marker Nut, Rear License Plate Bracket |
| 9685057 | 502.11678 | Door Trim Panel Retainer |
| 9721917 | 502.14550 | Door Hinge Bushing |
| N621940 | 502.15335 | Metric Free Spinning Washer Nuts |
| N623336-52 | 502.12669 | Metric U Nut |
| N804349S | 502.15479 | Bumper Fascia Retainer |
| W701374-S | 502.20399 | Hood Insulation Retainer |
| W701855-S300 | 502.20366 | Fender Liner & Mud Flap Retainer |
| | 502.13933 | Grille Nut |

| OEM No. | Art. No. | Type |
|---------|------------------|--|
| | 275.101 | Hex Head Sems® Class 9.8 |
| | 278.506 | Hex Head Sems® |
| | 278.503 | Hex Washer Head |
| | 502.10642 | Metric Special Tapping Screw, Torx Washer Head |
| | 502.9757 | Hex Head Sems® Body Bolts |
| | 502.10066 | Spring Type U-Nut |
| | 502.19725 | Door Roller Pin Assembly |
| | 502.2288 | Door & Window Crank. Handle Retaining Clip. |

RETAINERS


Front Fender Mudskirt Retainer
Art. No. 502.12567
OEM #: 14019205,14019206, 16514113

Material: Black Nylon
 Head Dia: 11/16"
 Panel Range: 9/32"
 Fits Into: 1/4" Hole
 GM 1981- On
 Chrysler OEM #: 34201621, 6504090
Qty: 50



**Radiator Overflow Bottle/
 Windshield Washer
 Bottle Retainer**
Art. No. 502.14011
OEM #: 14019226, 14071289

Material: Black Nylon
 Head Dia: 21/32"
 Fits Into: 5/16"
 GM 1981- On
Qty: 40



**Rear Bumper Cover
 Push-Type Retainer**
Art. No. 502.19615
OEM #: 15153415

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 21mm
 Fits Into: 9mm Hole
 C & K Trucks
 1999 - On
Qty: 25



**Air Baffle to Under Carriage
 Push-Type Retainer**
Art. No. 502.17216
OEM #: 21030249

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 20mm
 Fits Into: 8mm Hole
 GM Saturn
 2 Door & 4 Door Models
 1991 - On
 Ford OEM #: N8073895
 Acura OEM #: 6503598
Qty: 25



Push Type Retainer
Art. No. 502.16816
OEM #: 21047094

Material: Black Nylon
 Head Dia: 14mm
 Stem Length: 14mm
 Fits Into: 6mm Hole
 GM Saturn
 1991 - On
Qty: 50



Fascia Retainer
Art. No. 502.12757
OEM #: 5973400

Material: Black Nylon
 Head Dia: 1"
 Fits Into: 1/2" Hole
 Panel Range: 1/8"
Qty: 25



Body Retainer
Art. No. 502.13993
OEM #: 20510029

Material: Black Nylon
 Head Dia: 11/16"
 Fits Into: 1/4" Hole
 1984 - On
 Ford OEM #: N803366-S
 Chrysler OEM #: 34202672
Qty: 50



**Front Bumper Push-
 Type Retainer**
Art. No. 500.19233

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 13mm
 Fits Into: 10mm Hole
 Acura 3.5 RL Sedan & Honda
 1996 - On
 Honda, Acura OEM #: 91503-
 SZ3-003
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

GM
RETAINERS


Bumper Fascia Retainer
Art. No. 502.15042
OEM #: 10077283

Material: Black Nylon
 Head Dia: 1"
 Stem Length: 1-1/8"
 Fits Into: 1/2" Hole
 Panel Range: 1/4"
 GM 1982 - On
Qty: 25



Bumper Fascia Retainer
Art. No. 502.15045
OEM #: 10053388, 22542705

Material: Black Nylon
 Head Dia: 1"
 Panel Range: 1/8"
 Stem Length: 1-7/64"
 Fits Into: 1/2" Hole
 GM 1987 - On
Qty: 25



Bumper Fascia Retainer
Art. No. 502.15043
OEM #: 14103461

Material: Black Nylon
 Head Dia: 7/8"
 Stem Length: 1-3/64"
 Fits Into: 1/2" Hole
 Panel Range: 5/32"
 GM 1987 - On
Qty: 50



Bumper Fascia Retainer
Art. No. 502.15044
OEM #: 22535007

Material: Black Nylon
 Head Dia: 1"
 Stem Length: 1"
 Fits Into: 1/2" Hole
 Panel Range: 1/8"
Qty: 40



Push-Type Retainer
Art. No. 502.18030
OEM #: 10134407

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 13/16"
 Fits Into: 1/4" Hole
 Chrysler Concorde, LHS
 Dodge Intrepid
 & Eagle Vision
 Coolant Recovery Reservoir
 GM 1992 - On
 Chrysler OEM #: 6501925
Qty: 50



**Fender Wheel & Bumper
 Push Type Retainer**
Art. No. 502.20888
OEM #: 11561368

Head Dia: 18mm
 Stem Length: 20mm
 Panel Range: 3.0mm - 5.8mm
 Fits Into: 9.5mm hole
 Chevrolet Impala & Monte Carlo
 and Pontiac Grand Prix & Solstice
 Years: 2004 - On
 Jeep Wrangler
 2000 - On
Qty: 25



**Air Inlet Grill, Bumper
 Fascia, Front Brake
 Caliper Cooling Duct**
Art. No. 502.20880
OEM #: 11589290

Head Dia: 18mm
 Stem Length: 20mm
 Panel Range: 4.5mm - 7.0mm
 Fits Into: 6.5mm hole
 Buick Enclave, Cadillac CTS &
 STS, Chevrolet Cobalt, Equinox & SSR,
 GM Trucks and Pontiac G5 & Torrent
 2002 - On
Qty: 25



**Wheel Opening Moulding
 Push-Type Retainer**
Art. No. 502.19801
OEM #: 21077123

Material: Black Nylon
 Head Dia: 19/32"
 Stem Length: 3/4"
 Fits Into: 1/4" Hole
 Saturn 1991 - On
 Ford 2002 - On
 Chrysler 2010 - On
 Ford OEM #: W705436-S300
 Chrysler OEM #: 6509103AA
Qty: 25



Bumper Fascia Retainer
Art. No. 502.18896
OEM #: 21095797

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 28mm
 Fits Into: 8mm Hole
 GM 1996 - On
Qty: 25



Air Distributor & Windshield Defroster Push Type Retainer
Art. No. 502.20988
OEM #: 11589289

Head Dia: 18mm
 Stem Length: 17.5mm
 Panel Range: 2.0mm - 4.5mm
 Fits Into: 6.5mm Hole
 Buick Enclave, Chevrolet Equinox, Chevrolet & GMC S&T Trucks, GMC Acadia and Pontiac Torrent 2002 - On
 Chrysler OEM #: 6508863-AA
Qty: 25



Air Dam & Grill Push Type Retainer
Art. No. 502.20989
OEM #: 11589291

Head Dia: 18mm
 Stem Length: 22mm
 Panel Range: 7.0mm - 9.5mm
 Fits Into: 6.5mm Hole
 Cadillac CTS, SRX and STS
 Years: 2003 - On
 Ford OEM #: W713331-S300
Qty: 25



Cowl Vent, & Fender Push Type Retainer
Art. No. 502.20889
OEM #: 11589293

Head Dia: 20mm
 Stem Length: 22mm
 Panel Range: 4.5mm - 7.0mm
 Fits Into: 8.5mm Hole
 Buick Century, LaCrosse & Regal, Cadillac, Chevrolet Equinox, GM Trucks, Hummer H3 and Pontiac Grand Prix & Torrent
 Years: 1997 - On Ford Edge, Fusion, Lincoln MKX, Milan and Zephyr Years: 2006 - On
 Ford OEM #: W712196-S300
Qty: 25



Bumper Fascia Push-Type Retainer
Art. No. 502.17616
OEM #: 21077131

Head Dia: 1-3/16"
 Stem Length: 2"
 Fits Into: 7/16" Hole
 Material: Black Nylon
 GM Saturn 1991 - On
Qty: 10



Hood Insulation, Rear Bumper Fascia & Door Trim Plate Retainer
Art. No. 502.18948
OEM #: 1644290

Material: Black Nylon
 Bottom Head Dia: 11mm
 Stem Length: 17.5mm
 Stem Dia: 5.5mm
 GM 1991 - On
 Nissan 2002 - On
 Nissan OEM #: 01553-0075U
Qty: 25



Interior Trim Retainer
Art. No. 502.15479
OEM #: N8043495

Material: Black Nylon
 Bottom Head Dia: 26mm
 Stem Length: 38mm
 Stem Dia: 8mm
 Ford 1986 - On
Qty: 25



Fender Flare, Gas Tank & Panel Attachment Push Type Retainer
Art. No. 502.20993
OEM #: 11589295

Head Dia: 25mm
 Stem Length: 20mm
 Panel Range: 3.0mm - 6.0mm
 Fits Into: 10.5mm hole
 Chevrolet Cobalt & HHR, GM C&K Trucks and Pontiac G5 2005 - On
 Ford OEM #: W712665-S300
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**



**Bumper Fascia Flares
& Air Dam
Push Type Retainer**
Art. No. 502.20991
OEM #: 11589292

Head Dia: 20mm
Stem Length: 20mm
Panel Range: 2.0mm - 4.5mm
Fits Into: 8.5mm hole
Chevrolet & GMC C & K Trucks
2007 - On
Qty: 25



**Bumper Fascia, Fender
& Toe / Floor Panel
Push Type Retainer**
Art. No. 502.20992
OEM #: 11589294

Head Dia: 20mm
Stem Length: 24mm
Panel Range: 7.0mm - 10.0mm
Fits Into: 8.5mm hole
Buick Enclave & LaCrosse,
Chevrolet &
GMC C & K Trucks, GMC Acadia,
Hummer H3 and Saturn Outlook
2005 - On
Qty: 25



Weatherstrip Retainer
Art. No. 502.20344
OEM #: 10169777

Material: Black Nylon
Bottom Head Dia: 18mm
Stem Length: 20mm
Stem Dia: 7.5mm
Chevrolet Impala, Lumina
& Monte Carlo &
Pontiac Aztek
1995 - On
Qty: 25



Cowl Vent Push-Type Retainer
Art. No. 502.20365
OEM #: 10301966, 10425306

Material: Black Nylon
Head Dia: 18mm
Stem Length: 13mm
Fits Into: 7.5mm Square Hole
Pontiac Aztek
2001 - On
Qty: 25



**Panel Attachment &
General Purpose
Push Type Retainer**
Art. No. 502.20994
OEM #: 11589296

Head Dia: 25mm
Stem Length: 23mm
Panel Range: 6.0mm - 9.0mm
Fits Into: 10.5mm hole
Buick Enclave and GMC Acadia
2007 - On
Qty: 25



**Fascia & General Purpose
Push Type Retainer**
Art. No. 502.20990
OEM #: 15296830

Head Dia: 19mm
Stem Length: 16mm
Panel Range: 5.0mm - 7.0mm
Fits Into: 8mm Hole
2007 - On
Chrysler: 5116530-AA
Qty: 25



**Bumper Cover Push-
Type Retainer**
Art. No. 502.20359
OEM #: 11519444

Material: Black Nylon
Head Dia: 18mm
Stem Length: 26mm
Fits Into: 10mm Hole
Oldsmobile Intrigue, Pontiac
Aztek & Grand Prix
1997 - On
Qty: 25



Trunk Trim Retainer
Art. No. 502.20262
OEM #: 22642756

Material: Black Nylon
Bottom Head Dia: 1"
Stem Length: 9/16"
Stem Dia: 7/16"
Chevrolet Cavalier & Pontiac
Sunfire 1995 - On
Qty: 25

GM
RETAINERS


Rear Bumper Fascia Retainer
Art. No. 502.896652
OEM #: 10140480

Material: Black Nylon
 Head Dia: 21mm (27/32")
 Stem Length: 25mm (1")
 Fits Into: 12mm Hole (1/2")
 Panel Range: 3mm (1/8")
 GM APV Vans
 1990 - On
 Chrysler OEM #: 6502625
Qty: 10



Fender Liner Retainer
Art. No. 502.20615
OEM #: 11517992

Material: Black Nylon
 Bottom Head Dia: 35mm
 Stem Length: 20mm
 Stem Dia: 8mm
 Pontiac Bonneville
 2000 - On
Qty: 25



Push-Type Retainer
Art. No. 502.14998
OEM #: 15672330,15956470

Material: Black Nylon
 Head Dia: .410"
 Flange Dia: .850"
 Stem Length: 1.000"
 Panel Range: .350-.470"
Qty: 25



Bumper Fascia Retainer
Art. No. 502.20281
OEM #: 11518201

Material: Black Nylon
 Bottom Head Dia: 21mm
 Stem Length: 27mm
 Stem Dia: 13mm
 Pontiac Grand Am
 1999 - On
Qty: 15



Engine Compartment & Front End Retainer
Art. No. 502.20360
OEM #: 22189414

Material: Black Nylon
 Bottom Head Dia: 15/16"
 Stem Dia: 3/8"
 Stem Length: 3/4"
 Buick LeSabre, Park Ave.,
 Rendezvous, & Riviera;
 Cadillac DeVille & Seville;
 Chevrolet Venture,
 Oldsmobile Silhouette
 and Pontiac Aztek,
 Bonneville & Montana
 2000 - On
 Chrysler
 2010 - On
Qty: 25



Front End Stone Shield Retainer
Art. No. 502.12766
OEM #: 22512276

Material: Black Nylon
 Bottom Head Dia: 7/8"
 Stem Length: 13/16"
 Stem Dia: 7/16"
Qty: 50



Fender Liner & Mud Flap Retainer
Art. No. 502.20366
OEM #: W701855-S300

Material: Black Nylon
 Bottom Head Dia: 22mm
 Stem Length: 35mm
 Stem Dia: 7.5mm
 Ford Explorer & Mountaineer
 2002 - On
Qty: 25



License Plate Bracket & Bumper Fascia Retainer
Art. No. 502.18685
OEM #: 3548804

Material: Black Nylon
 Bottom Head Dia: 31/32"
 Stem Length: 3/4"
 Stem Dia: 9/32"
 Cadillac Eldorado & Seville 1995 - On
Qty: 25

GM

RETAINERS



Bumper and Fender Apron Retainer
Art. No. 502.21199
OEM #: 11589181

Head Dia: 18mm
 Stem Length: 20mm
 Stem Dia: 7.5mm
 Ford Focus and
 GM Full-Size Pick-Up Trucks 2007 - On
 Ford OEM #: W711687-S300
Qty: 25



Weatherstrip Fastener
Art. No. 502.11612
OEM #: 20413107

Material: Black Nylon
 Head Dia: 7/16"
 Stem Length: 5/8"
 Stem Dia: 3/16"
 Ford OEM #: 388246S
 AMC OEM #: 4006516
Qty: 25



Retains Conduit To Sheet Metal In Doors
Art. No. 502.13461
OEM #: 20451401

Material: White Nylon
 Bottom Head Dia: 15/16"
 Top Head Dia: 29/32"
 Stem Length: 1-1/8"
 Stem Dia: 5/16"
Qty: 50



Grille to Panel Retainer
Art. No. 502.15367
OEM #: 205-14862

Material: Black Nylon
 Head Dia: 19/32"
 Stem Length: 3/4"
 Stem Dia: 7/32"
 GM 1985 - On
Qty: 100



Fender & Bumper Shield Retainer
Art. No. 502.10831
OEM #: 20732399, 332364, 14093311

Material: Black Nylon
 Bottom Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 5/8"
 Ford OEM #: 389358,
 W701259-S300
 Chrysler OEM #: 3691590,
 6031321, 6505411-AA
 AMC OEM #: 4004569
Qty: 100



Fender & Bumper Shield Retainer
Art. No. 502.10832
OEM #: 6270163, 6270163

Material: Gray Nylon
 Head Dia: 11/16"
 Stem Length: 5/8"
 Stem Dia: 5/16"
 GM 1973 - On
 Chrysler
Qty: 50



Cowl Vent Retainer
Art. No. 502.13454
OEM #: 20511451

Material: Black Nylon
 GM 1984 - On
Qty: 25



Door Weatherstrip Retainer
Art. No. 502.11120
OEM #: 8731909

Material: Black Nylon
 Bottom Head Dia: 13/32"
 Stem Length: 3/8"
 Stem Dia: 5/32"
 GM 1963 - On
Qty: 100

GM
RETAINERS


Mud Shield Retainer
Art. No. 502.11679
OEM #: 20032850

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Dia: 9/32"
 Stem Length: 1/2"
 GM, Ford & Chrysler
 1976 - On
 Ford OEM #: 387258-S
 Chrysler OEM #: 3861577
Qty: 50



Rocker Panel Moulding Clip
Art. No. 502.19822
OEM #: 25693852

Material: Gray Nylon
 Top Head: 9/16" x 3/4"
 Bottom Head: 5/8" x 3/4"
 Stem Length: 9/16"
 Snaps Into: 7/16" hole
 Buick LeSabre, Cadillac Concours,
 DeVille, Eldorado & Seville;
 Chevrolet Impala, Lumina
 & Monte Carlo; Oldsmobile
 Aurora & Pontiac Bonneville
 1995 - On
Qty: 25



Moulding Retainer
Art. No. 502.14006
OEM #: 20455900

Material: Black Nylon
 GM 1984 - On
Qty: 50



Trim Panel Retainer
Art. No. 502.11721
OEM #: 411700

Material: Black Nylon
 Head Dia: 1/2"
 Stem Length: 9/32"
 Stem Dia: 3/4"
 GM 1968 - On
Qty: 50



Weatherstrip Retainer
Art. No. 502.10744
OEM #: 4876498

Material: Black Nylon
 Head Dia: 3/16" x 1/2"
 Stem Dia: 3/16"
 Stem Length: 7/16"
 Bottom Head Dia: 3/16" x 1/2"
Qty: 100



**Rocker Panel &
 Garnish Moulding
 Push-Type Retainer**
Art. No. 502.20577
OEM #: 88970494, 88973676

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 8mm
 Fits Into: 7mm Hole
 Pontiac Vibe 2003 - On
 Lexus & Toyota 2000 - On
 Toyota OEM #: 90467-07168
Qty: 25



Trim Panel Retainer
Art. No. 502.16818
OEM #: 21094146, 21110201

Material: Black Nylon
 Stem Length: 7/8"
 Stem Dia: 11/32"
 Bottom Head Dia: 3/4"
 GM Saturn 1991 - On
 Sliding Door & Lift Gate
 Chrysler Mini Vans 1987- On
 Chrysler OEM #: 6501301
Qty: 25



**Radiator Yoke,
 Fender, & Bumper
 Shield Retainer**
Art. No. 502.11146
**OEM #: 1605396,
 15958694, 11569768**

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 13/16"
 Stem Dia: 5/16"
 Ford OEM #: 388577S,
 W705589-S300
 Chrysler OEM #: 6030441
Qty: 100

GM

RETAINERS



**Shield Retainer Battery Post
Cable Shield, Engine Splash
Shield Radiator Side Air Baffle**
Art. No. 502.17664
OEM #: 10121502

Material: Black Nylon
Head Dia: 11/16"
Stem Length: 1-1/16"
Stem Dia: 5/16"
GM 1989 - On
Ford OEM #: 390018-S
Chrysler OEM #:
6033082, 6033840
Qty: 50



Exterior Body Retainer
Art. No. 502.13996
OEM #: 20452072, 20590899

Material: Black Nylon
Head Dia: 11/16"
Stem Length: 7/8"
Fits Into: 9/32" Hole
1984 - On
Qty: 50



Push-Type Retainer
Art. No. 502.14997
OEM #: 10053182

Material: Black Nylon
Head Dia: 19/32"
Stem Length: 13/16"
Fits Into: 5/16" Hole
GM 1987 - On
Qty: 50



Rear Hood Seal Retainer
Art. No. 502.14036
OEM #: 14074081

Material: Black Nylon
Head Dia: 3/4"
Stem Length: 1-3/8"
Stem Dia: 5/16"
GM 1983 - On
Qty: 25



Bumper Fascia Retainer
Art. No. 502.20362
OEM #: 15056810

Material: Black Nylon
Head Dia: 25mm
Stem Length: 15mm
Stem Dia: 13mm
GM S & T Trucks
2002 - On
Qty: 25



Radiator Apron Panel Retainer
Art. No. 502.12137
OEM #: 1619321

Material: Black Nylon
Head Dia: 1"
Stem Length: 13/16"
Stem Dia: 7/16"
Fits Into: 3/8" Hole
GM 1977 - On
Qty: 50



**Splash Shield, Seat Cushion &
Spare Tire Retainer**
Art. No. 502.13994
OEM #: 20570245, 20635065

Material: Black Nylon
Head Dia: 1"
Stem Length: 7/8"
Fits Into: 5/16" Hole"
Ford OEM #: N804614S
Qty: 25

GM
RETAINERS


Push-Type Retainer
Art. No. 502.14987
OEM #: 10089262, 21042098

Material: Black Nylon
 Head Dia: 7/16"
 Stem Length: 11/16"
 Fits Into: 6mm 15/64" Hole
 Chrysler OEM #: 55075139
Qty: 25



Push-Type Retainer
Art. No. 502.14995
OEM #: 10195515

Material: Black Nylon
 Head Dia: 1/2"
 Stem Length: 1-13/64"
 Fits Into: 9/32" Hole
 GM, Ford & Chrysler
 1987 - On
 Ford OEM #: N805026S
 Chrysler OEM #: 4696488, 6503163
Qty: 25



Fascia Retainer
Art. No. 502.14010
OEM #: 14045480

Material: Black Nylon
 Head Dia: 1"
 Stem Length: 23/32"
 Fits Into: 3/8" Hole
 GM 1982 - On
Qty: 25



Rear Bumper Fascia Retainer
Art. No. 502.16835
OEM #: 10140480

Material: Black Nylon
 Head Dia: 21mm
 Shoulder Length: 3mm
 Stem Length: 25mm
 Fits Into: 1/2" Hole
 APV Vans 1990 - On
 Chrysler OEM #: 6502625
Qty: 25



Radiator Shroud & Trim Retainer
Art. No. 502.14753
OEM #: 15773445, 20452072, 20664092

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 7/8"
 Fits Into: 1/4" Hole
 Chrysler OEM #: 4638136
 Ford OEM #: N804570S
Qty: 25



Tail Light Retainer
Art. No. 502.14016
OEM #: 16500308

Material: Black Nylon
 Large Head Dia: 3/8"
 Stem Length: 7/16"
 Fits Into: 3/16" Hole
 Chrysler OEM #: 6500787
Qty: 25



Push-Type Retainer
Art. No. 502.14993
OEM #: 22538004

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 7/8"
 Fits Into: 1/4" Hole
 GM 1987 - On
Qty: 25



Radiator Grille & Trim Panel Push-Type Retainer
Art. No. 502.17383
OEM #: 96057847, 94847334

Material: Black Nylon
 Head Dia: 11mm
 Stem Length: 14mm
 Fits Into: 7mm Hole
 Geo Tracker & Prizm 1996-89
 Toyota OEM #: 90467-07066
 Suzuki OEM #: 09409-07313
Qty: 20

GM
RETAINERS


Front Bumper Fascia Retainer
Art. No. 502.16622
OEM #: 10157900, 11517803, 15993201

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 23mm
 Fits Into: 9.5mm (3/8") Hole
 Old Cutlass 1990 - On
 GM Light Truck 1996 - On
Qty: 25



Rocker Panel Push-Type Retainer
Art. No. 502.19788
OEM #: 10246149, 22657634

Material: Black Nylon
 Head Dia: 11mm
 Stem Length: 20mm
 Fits Into: 6mm Hole
 Achieva, Cutlass, Grand Am & Malibu
 GM 1999 - On
Qty: 25



Fender Apron Push-Type Retainer
Art. No. 502.20826
OEM #: 11609417

Material: Black Nylon
 Head Dia: 19mm
 Stem Length: 14mm
 Panel Range: 2.7mm - 5.3mm
 Fits Into: 8.5mm Hole
 Buick Enclave & LaCrosse, Cadillac
 CTS, SRX & STS, Chevrolet Cobalt,
 Equinox & Malibu, GM Trucks
 and Pontiac G5, G6 & Torrent
 2003 - On
Qty: 50



Trim Panel Retainer
Art. No. 502.12759
OEM #: 14027471

Material: Black Nylon
 Bottom Head Dia: 1"
 Stem Dia: 9/32"
 Stem Length: 1-7/16"
 GM Trucks 1981-On
Qty: 25



Push-Type Retainer
Art. No. 502.17222
OEM #: 11561878, 21075686

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 20mm
 Fits Into: 8mm Hole
 Rocker Panel, Wheel Liner & Air Inlet
 Duct Applications
 GM Saturn, 2 Door & 4 Door Models
 1991 - On
 Ford OEM #: F3LY-14570-B
Qty: 25



Radiator, Wheelhouse, Fender & Front Bumper Cover Push-Type Retainer
Art. No. 502.19639
OEM #: 15149708

Material: Black Nylon
 Head Dia: 17mm
 Stem Length: 16mm
 Fits Into: 6mm Hole
 Chrysler OEM #: 6506008AA
Qty: 25



Door Trim Push-Type Retainer
Art. No. 502.20666
OEM #: 22677979, 22677980

Material: Gray Nylon
 Head Dia: 12mm
 Stem Length: 14mm (Exc. Pin)
 Fits Into: 6mm Hole
 Chevrolet Malibu
 2004 - On
Qty: 25



Push-Type Retainer
Art. No. 502.14991
OEM #: 10139822; 25680782

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 11/16"
 Fits Into: 1/4" Hole
 GM & Ford 1987 - On
 Ford OEM #: N8081475
Qty: 25

GM
RETAINERS


**Bumper Cover & Fender Shield
Push-Type Retainer**
Art. No. 502.20632
GM OEM #: 11518017

Material: Black Nylon
Head Dia: 20mm
Stem Length: 26mm
Fits Into: 8mm Hole
GM & Ford 1997 - On
Ford OEM #: W708530-S300
Qty: 25



Door Panel Retainer
Art. No. 502.11349
OEM #: 796255

Material: Black Nylon
Bottom Head Dia: 3/4"
Top Head Dia: 19/32"
Stem Length: 11/16"
Stem Dia: 5/16"
American Motors 1976 - On
GM 1988 - 81
Jeep Wrangler 1991 - On
AMC OEM #: 4005099
Chrysler OEM #: 6033862
Qty: 25



Pillar Cover Retainer
Art. No. 502.14032
OEM #: 15588078

Material: Black Nylon
Bottom Head Dia: 3/4"
Stem Length: 1-1/4"
Stem Dia: 5/16"
1985 - On
Qty: 20



Hood Insulation Retainer
Art. No. 502.15456
OEM #: 20064875

Material: Black Nylon
Bottom Head Dia: 1-21/32"
Stem Length: 3/4"
Stem Dia: 5/16"
GM 1980 - On
Qty: 50



Trim Panel Retainer
Art. No. 502.14144
OEM #: 95005064

Material: Black Nylon
Bottom Head Dia: 18mm
Top Head Dia: 13mm
Stem Length: 14mm
Stem Dia: 9.5mm
Toyota OEM #: 67771-01010
Qty: 25



**Front Door Lower
Moulding Retainer**
Art. No. 502.18682
OEM #: 10098645

Material: Black Nylon
Bottom Head Dia: 1/2"
Stem Length: 3/4"
Stem Dia: 1/4"
Pontiac Grand Prix with Sport
Performance Package
1994 - On
Qty: 75



Bumper Fascia Retainer
Art. No. 502.15478
OEM #: 1631564

Material: Black Nylon
Bottom Head Dia: 22mm
Stem Length: 28mm
Stem Dia: 11mm
Buick Cadillac & Olds 1981 - On
Taurus & Sable 1986 - On
Ford OEM #: N804379S,
W706358-S300
Qty: 50



Door Weatherstrip Retainer
Art. No. 502.14921
OEM #: 20699808

Material: Black Nylon
Bottom Head Dia: 10mm
Stem Length: 12mm
Stem Dia: 6mm
Chrysler OEM #: 6502328
Qty: 100

GM
RETAINERS


Front Air Deflector Retainer
Art. No. 502.19613
OEM #: 15733971

Material: Black Nylon
 Head Dia: Small: 18mm
 Medium: 26mm
 Flange Dia: 30mm
 Stem Length: 24mm
 Use with 19614 C & K Trucks
 1999 - On
Qty: 15



Dash Panel Retainer
Art. No. 502.11680
OEM #: 25016383

Material: Black Nylon
 Bottom Head Dia: 7/16"
 Stem Length: 5/8"
 Stem Dia: 3/16"
 GM 1977 - On
Qty: 50



Radiator Baffle Retainer
Art. No. 502.18389
OEM #: 25603960

Material: Black Nylon
 Bottom Head Dia: 1/2"
 Stem Length: 7/16"
 Stem Dia: 9/32"
 Olds 98 Regency
 1994 - On
Qty: 60



Door Trim Panel & Headliner Retainer
Art. No. 502.10621
OEM #: 2064891, 9818648, 9883583

Material: White Nylon
 Bottom Head Dia: 3/4"
 Top Head Dia: 11/16"
 Stem Length: 1/2"
 Stem Dia: 5/16"
 GM 1971 - On
Qty: 100



Door Trim Panel Retainer
Art. No. 502.12992
OEM #: 15600382, 20421800, 10073833

Material: White Nylon
 Bottom Head Dia: 3/4" x 7/8"
 Top Head Dia: 9/32" x 19/32"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 GM 1983 - On
Qty: 50



Door Trim Panel Push-Type Retainer
Art. No. 502.18353
OEM #: 15960325

Material: White Nylon
 Dia: 9/16"
 Stem Length: 41/64"
 Fits Into: 1/4" Hole,
Qty: 50



Air Conditioning Vent & General Purpose Push-Type Retainer
Art. No. 502.11854
OEM #: 14005089

Material: Natural Nylon
 Head Dia: 7/16"
 Stem Length: 9/32"
 Fits Into: 3/16" Hole
Qty: 25



Trim Panel Retainer
Art. No. 502.20444
OEM #: 15076791

Material: White Nylon
 Bottom Head Dia: 19mm
 Top Head Dia: 20mm
 Stem Length: 17mm
 Stem Dia: 11mm
 GM Trucks: Rendezvous,
 S & T 2002 - On
Qty: 15



Trim Panel Retainer
Art. No. 502.19270
OEM # 10285935

Material: White Nylon
 Bottom Head Dia: 20mm
 Top Head Dia: 18mm
 Stem Length: 24mm
 Stem Dia: 8mm
 Buick Century & Regal,
 Chevrolet Venture,
 GM Truck, Express Savana, Olds
 Silhouette & Pontiac Trans Sport
 1977 - On
Qty: 50



Door Panel Retainer
Art. No. 502.12737
OEM #: 12337920, 20374473

Material: White Nylon
 Bottom Head Dia: 3/4"
 Top Head Dia: 21/32"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 Camaro & Firebird 1982 - On
 GM Truck 1989 - On
Qty: 50



Front Door Trim Panel Retainer
Art. No. 502.16695
OEM #: 10153057

Material: White Nylon
 Bottom Head Dia: 20mm
 Top Head Dia: 18mm
 Stem Length: 23mm
 Stem Dia: 8mm
 GM 1982 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.20338
OEM #: 10421018

Material: White Nylon
 Bottom Head Dia: 25/32"
 Top Head Dia: 11-16"
 Stem Length: 1-1/4"
 Stem Dia: 5/16"
 GM 1997 - On
Qty: 25



Door Trim Panel Retainer
Art. No. 502.11796
OEM #: 3065575

Material: White Nylon
 Bottom Head Dia: 7/8"
 Top Head Dia: 29/32"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 GM 1978 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.17092
OEM #: 20734005

Material: Yellow Nylon
 Bottom Head Dia: 13/16" x 29/32"
 Top Head Dia: 5/8"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 GM 1982 - On
Qty: 50



Trim Panel Retainer
Art. No. 502.16017
OEM #: 363137

Material: White Nylon
 Bottom Head Dia: 3/4"
 Top Head Dia: 5/8"
 Stem Length: 1"
 Stem Dia: 5/16"
 Chev. Truck & GMC
 1976 - On
Qty: 100



Retainer-Door Trim Panel
Art. No. 502.11678
OEM #: 9685057, 6003349,
4005470
N98905101

Material: White Nylon
 Bottom Head Dia: 15/16"
 Top Head Dia: 29/32"
 Stem Length: 11/16"
 Stem Dia: 5/16"
 Chrysler, GM, AMC & VW
 1976 - On
 Chrysler OEM #: 6003349
 AMC OEM #: 4005470
 Volkswagen OEM #: N98905101
Qty: 50

GM

RETAINERS



Trim Panel Retainer
Art. No. 502.15970
OEM #: 15607165, 15612948

Material: White Nylon
 Bottom Head Dia: 9/16" x 11/16"
 Top Head Dia: 9/32" x 1/2"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 GM Trucks 1976 - On
Qty: 25



Black Nylon Front Bumper Push-Type Retainer
Art. No. 502.22552
OEM#: 9130754

Head Diameter: 16mm
 Stem Length: 10mm
 Fits Into 6mm Hole
Qty: 25



Natural Nylon Weatherstrip Retainer
Art. No. 502.22533
OEM#: 11611342

Top Head Size: 6.5mm x 14mm
 Bottom Head Diameter: 9.5mm
 Stem Diameter: 7mm
 Stem Length: 8mm
Qty: 100



Headliner Retainer
Art. No. 502.22576
OEM#: 13475541

Head Diameter: 25mm
 Stem Diameter: 7.3mm
 Stem Length: 21mm
 Fits into 6.5mm Hole
Qty: 25



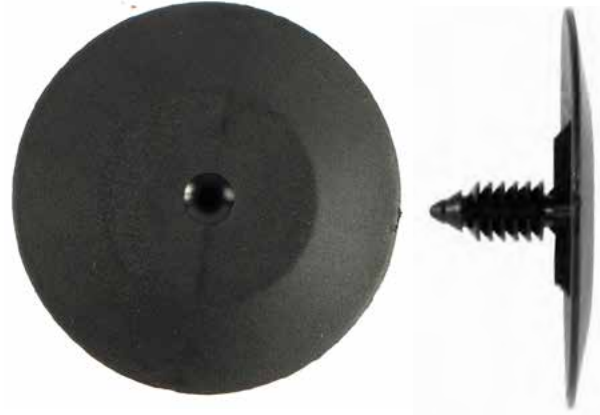
Hood Insulation Retainer
Art. No. 502.17975
OEM #: 21039129

Material: Black Nylon
 Bottom Head Dia: 1-3/16"
 Stem Length: 1/2"
 Stem Dia: 5/16"
 Chrysler Concorde, Dodge Intrepid & Eagle Vision 1993 - On
 GM corvette, Equinox & Saturn 1992 - On
 Chrysler OEM #: 6502842
Qty: 50



Rocker Panel Moulding Clip
Art. No. 502.19757
OEM #: 10431524

Material: Black Nylon
 Top Head: 9/16" x 3/4"
 Bottom Head: 5/8" x 3/4"
 Stem Length: 9/16"
 Fits Into: 7/16" hole
 Buick LeSabre; Cadillac Concours, DeVille, Eldorado & Seville; Chevrolet Impala, Lumina & Monte Carlo; Oldsmobile Aurora & Pontiac Bonneville 1995 - On
Qty: 30



Hood Insulation Retainer
Art. No. 502.11130
OEM #: 3078511, 3977775

Material: Black Nylon
 Bottom Head Dia: 2"
 Stem Length: 3/4"
 Stem Dia: 5/16"
Qty: 50

GM
SCREW GROMMETS


#6 Screw Size Grommet
Art. No. 502.11838
OEM #: 1254815

Material: Natural Nylon
 Panel Range: .060"-.150"
 Screw Size: #6
 GM 1977 - On
Qty: 50



Headlight Bezel Nut
Art. No. 502.12735
OEM #: 1370853

Material: Natural Nylon
 Screw Size: #6
 GM, Chrysler & VW 1982 - On
 Chrysler OEM #: 6029501
 Volkswagen OEM #: VW/179813-883
Qty: 50



Grille Nut Radiator Support
Art. No. 502.18153
OEM #: 15686142, 11561448

Material: Zinc Phosphate
 Screw Size: #8
 GM Trucks, C & K, 1, 2 & 3
 1993 - On
Qty: 25



License Plate Nut
Art. No. 502.8418
OEM #: 380370

Material: Nylon
 Screw Size: #14
Qty: 50



License Plate Nut
Art. No. 502.2558
OEM #: 3783006

Material: Zinc
 Thread Size: 10-24
 Hex Width: 3/8"
 O.D.: 3/4"
 Screw Size: #10
Qty: 100



Headlight Bezel To Body Nut #6 or 8 Screw Size
Art. No. 502.9829
OEM #: 380382

Material: Natural Nylon
 Screw Size: #8/#6
Qty: 100



Front End & Instrument Panel Nut
Art. No. 502.10330
OEM #: 3893980

Material: Natural Nylon
 Screw Size: #8
 GM 1967 - On
Qty: 100



Rear Light Housing Upper Grommet
Art. No. 502.20529
OEM #: 15745991

Head Size: 13mm x 20mm
 Stem Length: 17mm
 Fits Into: 9mm x 16mm Hole
 GM Bravada, Envoy & Trailblazer
 2002 - On
Qty: 15



Side Marker Nut, Rear License Plate Bracket
Art. No. 502.11855
OEM #: 9669486

Material: Natural Nylon
 Screw Size: #8
 GM 1980 - On
 Renault OEM #: 8934-201-262
Qty: 25



Front Fender Ext. & License Plate Bracket
Art. No. 502.19317
OEM #: 15707256

Material: Zinc Organic
 Screw Size: M6-1.0
 GM Express & Savanna
 1996 - On
Qty: 10



Headlight Bezel Nut
Art. No. 502.13960
OEM #: 14013246

Material: Natural Nylon
 Screw Size: #8
 GM 1967 - On
Qty: 50



1/4" (#14) Screw Size License Plate Nut
Art. No. 502.11719
OEM #: 3907444

Material: Nylon
 Screw Size: 1/4" (#14)
Qty: 100



Front Lights #8 Screw Size
Art. No. 502.13450
OEM #: 347347

Material: Natural Nylon
 Panel Range: 1/16"-5/32"
 GM 1967 - On
Qty: 50



Headlight Bezel Nut
Art. No. 502.11691
OEM #: 3919773

Material: Natural Nylon
 Screw Size: #8
 GM 1974 - On
Qty: 100



Grille Nut
Art. No. 502.13933

Material: Natural Nylon
 Screw Size: #8 or #10
 Head Size: 1/2"
Qty: 100



Cowl Vent Nut
Art. No. 502.14037
OEM #: 15596280

Material: Black Nylon
 Screw Size: #6 or #8
 Head Size: 1/2"
 GM Astro & Safari
 Chrysler OEM #: 6035274
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

GM

SPECIALTY CLIPS/MOULDING CLIPS



Side Moulding, Fender & Rocker Panel Moulding Clip
Art. No. 502.20481
OEM #: 10423553

Material: Green Nylon
 Top Head Size: 1/2" x 13/16"
 Bottom Head Size: 19/32" x 13/16"
 Stem Length: 9/16"
 Fits Into: 7/16" Hole
 Pontiac Aztek And GM C & K Trucks
 2001 - On
Qty: 15



Rocker Panel Moulding Clip
Art. No. 502.19821
OEM #: 10431761

Material: Gray Nylon
 Head Dia: Top: 11/16" x 1-1/2"
 Bottom: 7/8 x 1-9/16"
 Stem Length: 1-1/4"
 Fits Into: 7/16" Hole
 Chevrolet Impala, Lumina & Monte Carlo
 2000 - On
Qty: 30



Rocker Panel Moulding Clip
Art. No. 502.20377
GM OEM #: 11518357

Material: White Nylon
 Head Dia: Top 9/16"x13/16"
 Bottom 13/16"x13/16"
 Stem Length: 9/16"
 Fits Into: 7/16" Hole
Qty: 15



White Nylon Body Side & Exterior Trim Moulding Clip with Sealer
Art. No. 502.22492
OEM#: 11547581

Top Head Size: 12mm x 20mm
 Bottom Head Diameter: 19mm (Including Sealer)
 Stem Length: 11mm
 Fits into 9mm Hole
Qty: 25



Rocker Moulding & Grille Moulding Clip
Art. No. 502.20774
OEM #: 25724529

Material: White Nylon
 Top Head Size: 9/16" x 13/16"
 Bottom Head Size: 5/8" x 13/16"
 Stem Length: 9/16"
 Fits Into: 3/8" Hole
 Buick LeSabre & Rainier; Cadillac Concours, CTS, DeVille, Eldorado, Escalade, Seville, SRX & STS; Chevrolet Avalanche, Impala, Lumina, Monte Carlo, SSR, Vans & Trucks; Oldsmobile Aurora & Bravada and Pontiac Bonneville 1992 - On
Qty: 25



Windshield Garnish Moulding, Rear Side Door Garnish Moulding & Liftgate Trim Finish Panel Fastener
Art. No. 502.19519
OEM #: 16662182

Material: Zinc Organic
 Height: 9/16"
 Width: 1/2"
 Chevrolet Camaro, Corvette & Venture; Oldsmobile, Silhouette and Pontiac Firebird, Grand Prix & Trans Sport 1993 - On
 Chrysler 1996 - On
 Chrysler OEM #: 6502988
Qty: 15



Rocker Panel Moulding Clip
Art. No. 502.19820
OEM #: 22603384

Material: White Nylon
 Head Size: 3/4" x 1-3/16"
 Stem Length: 19/32"
 Fits Into: 7/16" Hole
 Oldsmobile Alero & Pontiac Grand Am
 1999 - On
Qty: 25



White Nylon Wheel Opening Moulding Clip
Art. No. 502.22534
OEM#: 11588818

Top Head Size: 16mm x 26mm
 Bottom Head Size: 14mm x 20mm
 Stem Length: 16mm
 Fits Into 9mm Hole
Qty: 25

GM

SPECIALTY CLIPS/MOULDING CLIPS



**Black Nylon Hood
Release Cable Clip**
Art. No. 502.22529
OEM#: 22581725

Top Head Diameter: 19mm
Holds 4.76 - 6.35mm Diameter Cable
Bottom Head Diameter: 17mm
Stem Diameter: 8mm
Stem Length: 16mm
Qty: 25



Wire Loom Routing Clip
Art. No. 502.19440
OEM #: 12040984

Material: Black Nylon
I.D.: 1/4"
O.D.: 3/8"
Qty: 15



Wire Loom Routing Clip
Art. No. 773.14547
OEM #: 3816659, 8917320

Material: Black Nylon
I.D.: 3/4"
O.D.: 1"
Qty: 25



Wire Loom Routing Clip
Art. No. 773.14546
OEM #: 8911472

Material: Black Nylon
I.D.: 1/2"
O.D.: 11/16"
Qty: 25



**Wire Loom Routing Clip Type 6
For Conduit Size 10mm x 13mm**
Art. No. 502.20397
OEM #: 12160858

Material: Gray Nylon
Qty: 30



Wire Loom Routing Clip
Art. No. 502.19851
OEM #: 12040983

Material: Black Nylon
I.D.: 1/2"
O.D.: 11/16"
Qty: 30



GM

SPECIALTY CLIPS/MOULDING CLIPS



Rocker Panel Moulding Clip
Art. No. 502.20972
OEM #: 11589176

Material: White Nylon
 Top Head Size: 3/4" x 1-1/32"
 Bottom Head Size: 19/32" x 1-1/32"
 Stem Length: 9/16"
 Fits Into: 3/8" Hole
 Chevrolet Malibu 2004 - On
Qty: 25



Rocker Moulding Clip
Art. No. 502.20607
OEM #: 10323057

Material: White Nylon
 Top Head Size: 12mm x 20mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
 Pontiac Grand Prix 2004 - On
Qty: 25



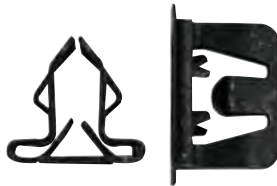
Rocker Panel Moulding Clip with Sealer
Art. No. 502.20756
OEM #: 5480852

Material: Yellow Nylon
 Top Head Size: 9/16" x 25/32"
 Bottom Head Size: 5/8" x 13/16"
 Stem Length: 9/16"
 Chevrolet Equinox 2005 - On
Qty: 25



Rocker Moulding Clip
Art. No. 502.21128
OEM #: 11562563

Material: White Nylon
 Upper Head Size: 12mm x 20mm
 Bottom Head Size: 12mm x 32mm
 Stem Length: 15mm
 Fits Into: 10mm Hole
 Chevrolet Malibu 2008 - On
Qty: 15



Radiator Grille & Bumper Cover Fastener
Art. No. 502.20860
OEM #: 15078238

Material: Black
 Width: 5/8"
 Length: 1"
 Overall Height: 5/8"
 GM Trucks & Vans 1999 - On
Qty: 25



Garnish, Interior Trim, Bezel & Scuff Plate Fastener
Art. No. 502.20883
OEM #: 11588650

Material: Zinc
 Width: 15/32"
 Height: 11/16"
 GM Cars & Light Trucks 2002 - On
Qty: 25



Windshield & Rear Window Reveal Moulding Clip
Art. No. 502.11067
OEM #: 9606232, 9662950, 20603072

1973 - On
Qty: 100



Garnish Moulding Fastener
Art. No. 502.20268
OEM #: 15748479

Material: Zinc
 Width: 1/2"
 Height: 5/8"
 GM Cars & Trucks
 1994 - On
Qty: 25



White Nylon Rocker Panel Moulding Clip
Art. No. 502.22575
OEM#: 11549137

Top Head Size: 33mm x 45mm
 Bottom Head Size: 25mm x 37mm
 Stem Length: 15mm
 Fits into 9mm x 20mm Slot
Qty: 20

GM
HARDWARE/BODY BOLTS/SCREWS


Hex Head Sems® Class 9.8
Art. No. 275.105
OEM #: 11504570, 11509816,
11514623

Material: Phosphate
 Size: M6-1.0 x 20mm
 Washer: 17mm (21/32")
 Hex: 10mm
Qty: 25



Stainless Steel Capped
Pan Head
w/o Nuts
Art. No. 235.12
OEM #: 943348, 9433489

Material: Zinc
 Head Dia: 3/8"-16 x 1"
 Head: 7/8"
 Shoulder Length: 3/32"
Qty: 10



Metric Tapping Screw
Hex Head Sems®
Art. No. 502.12068
OEM #: 11504981

Material: Phosphate
 Size: M6.3-1.81 x 30mm
 Washer O.D.: 24mm
 Hex: 10mm
Qty: 50



M10-1.50 x 40mm
Hex Head Sems®
Class 9.8
Art. No. 502.11641
OEM #: 11501193

Material: Phosphate
 Hex: 15mm
 Washer Dia: 29mm (1-5/32")
 Material: Phosphate
Qty: 25



Hex Head Sems® Class 9.8
Art. No. 502.12693
OEM #: 11502941, 11506174

Material: Phosphate
 Size: M6-1.0 x 20 mm
 Washer O.D.: 17 mm (21/32")
 Hex: 10 mm
Qty: 50



Bolt-Bumper Stainless Steel
Capped Pan Head w/o Nuts
Art. No. 502.16986
OEM #: 14003784

Material: Zinc
 Size: M8 -1.25 x 25mm
 Shoulder Length: 3mm
Qty: 25



Body Bolt Hex Head Sems®
Class 9.8
Art. No. 275.102
OEM #: 11503982

Material: Phosphate
 Size: M6-1.0x25mm
 Washer O.D.: 24mm (15/16")
 High Hex Head Sems®
 Hex: 10mm
Qty: 50



Body Bolt Class 9.8
Art. No. 275.201
OEM #: 11504493

Material: Black Polyseal
 Size: M6x1.0 x 25mm
 Hex: 10mm
 Washer O.D.: 24mm
Qty: 25

GM

HARDWARE/BODY BOLTS/SCREWS



Metric Body Bolt. Hex Head Sems® Class: 9.8
Art. No. 502.18416
OEM #: 11505044

Material: Black Phosphate
 Size: M6-1.0 x 35mm
 Washer O.D.: 17mm
 Hex: 10mm
Qty: 50



Body Bolt Hex Head Sems® Class 9.8
Art. No. 502.13614
OEM #: 11501188

Material: Phosphate
 Size: M8-1.25 x 30mm
 Washer O.D.: 24mm (15/16")
 Hex Head Sems®
 Hex: 13mm
Qty: 25



Body Bolt Hex Head Sems® Class 9.8
Art. No. 502.13613
OEM #: 11503619

Material: Phosphate
 Size: M8-1.25 x 25mm
 Washer O.D.: 24mm (15/16")
 Hex: 13mm
Qty: 25



Hex Washer Head Art. No. 502.12348
OEM #: 11500971

Material: Phosphate
 Size: M8-1.25 x 30mm
 Class 9.8
 Hex: 13mm
 Washer Head Dia: 17mm
Qty: 100



Hex Head Sems® Class 9.8
Art. No. 275.101

Material: Phosphate
 Size: M6-1.0 x 25mm
 Length: 25mm
 Washer O. D.: 17mm
 Hex: 10mm
Qty: 50



PH Washer Head Art. No. 502.12060
OEM #: 11501884

Material: Black Oxide
 Size: M4.6--1.41 x 20mm
 Washer Dia: 1mm
Qty: 100



PH Round Washer Head Pozi-Drive Art. No. 502.12061
OEM #: 11501896

Material: Black Oxide
 Size: M4.6--1.41 x 13mm
 Washer Dia: 8.5mm
Qty: 100



Metric Body Bolt Hex Head Sems®. Class: 9.8
Art. No. 275.103
OEM #: 11502790

Material: Zinc
 Size: M6.3-1.0 x 25mm
 Washer: 17mm (21/32")
 Hex: 10mm
Qty: 25



Washer Head Sems® Art. No. 502.12738
OEM #: 11504056,11513801

Material: Phosphate
 Size: M4.6-1.41 x 20mm
 Washer OD: 12mm
 Hex: 7mm
Qty: 50



Hex Head Sems® Art. No. 502.12064
OEM #: 11503812

Material: Zinc & Yellow
 Size: M6-1.0 x 16mm
 Class: 9.8
 Hex: 10mm
 Washer Dia: 18.5mm
Qty: 50



Metric Special Tapping Screw. Hex Head Sems® Art. No. 502.12057
OEM #: 11500994, 11509371

Material: Phosphate
 Size: M6.3-1.81 x 16mm
 Washer: 17mm (11/16")
 Hex: 10mm
Qty: 50



Metric Special Tapping Screws. Hex Head Sems® Art. No. 502.12741
OEM #: 11503395

Material: Phosphate
 Size: M4.6-1.41 x 16mm
 Length: 5/8
 Washer: 12mm (15/32")
 Hex: 7mm
Qty: 100

GM
HARDWARE/BODY BOLTS/SCREWS

Body Bolt, Hex Head Sems®
Art. No. 278.506

Material: Phosphate
 Size: 5/16-18 x 1"
 Length: 1"
 Washer: 7/8"
 Hex: 1/2"
Qty: 25


Metric Body Bolt Hex Washer Head Class 9.8
Art. No. 275.107
OEM #: 11502605,11502624, 11509511

Material: Phosphate
 Size: M8-1.25 x 25mm
 Washer: 17mm
 Hex: 13mm
Qty: 25


Body Bolt Hex Head Sems®
Art. No. 278.504
OEM #: 3986997, 14011722

Material: Phosphate
 Size: 3/8-16 x 1"
 Washer: 1"
 Hex: 9/16"
Qty: 25


Metric Body Bolt Hex Head Class 9.8
Art. No. 502.12336
OEM #: 11503632

Material: Black Polyseal
 Size: M8-1.25 x 25mm
 Washer: 17mm
 Hex: 13mm
Qty: 25


Square Head Drive Truss, foam to Bumper Fascia
Art. No. 502.19417
OEM #: 25631448

Material: Nylon-Black
 Size: M7.5 x 35mm
 Head Dia: 22mm
 Shoulder Dia: 9mm
 GM 1997 - On
 Chrysler 1993 - On
 Chrysler OEM #: 6503819, 6503401
Qty: 30


Metric Special Tapping Screw, PH Oval Washer Head
Art. No. 502.10642

Material: Zinc
 Size: #8 x 3/8"
 Washer O.D.: 3/8"
Qty: 100


Hex Washer Head
Art. No. 278.503

Material: Black Phosphate
 Size: 5/16"-18 x 3/4"
 Washer: 21/32"
 Hex: 1/2"
Qty: 25


PH Washer Head with Teks® Point
Art. No. 502.12095
OEM #: 1689827

Material: Zinc
 Size: #8 x 1/2"
 Washer Dia: 7/16"
Qty: 100


PH Washer Head with Teks® Point
Art. No. 502.15774
OEM #: 20423550

Material: Black Phosphate
 Dia: #8 x 1/2"
 Washer Dia: 7/16"
 Ford OEM #:381801-S2, 390017-S2
Qty: 100


PH Pan Head Sems® Pozi-Drive
Art. No. 502.12097
OEM #: 9420052,11502483,11503503

Material: Chrome
 Size: M4.6-1.41 x 20mm
 Washer Dia: 1/2"
Qty: 50


Front End & Air Conditioner Hex Head Sems®
Art. No. 502.12742
OEM #: 11503396, 11503483

Material: Phosphate
 Dia: M4.6-1.41 x 20mm
 Washer Head Dia: 12mm
 Hex: 7mm
Qty: 100


Hex Washer Head w/ Sems® Nylon Washer
Art. No. 502.13231
OEM #: 14007510

Material: Phos. Organic
 Size: 1/4 - 20 x 7/8"
 Washer I.D.: 5/8"
 Hex: 3/8"
Qty: 25

Pack sizes subject to change without notice

●●● Some sizes and finishes available OnDemand

GM

HARDWARE/BODY BOLTS/SCREWS



PH Oval Washer Head Pozi-Drive
Art. No. 502.12059
OEM #: 11501883

Material: Zinc
 Size: M4.6-41 x 13mm
 Washer O.D.: 11mm
Qty: 100



Hex Washer Head Sems®
Art. No. 502.12351
OEM #: 11505022

Material: Black Polyseal
 M6.3-1.81 x 20mm
 Washer Dia: 17mm
 Hex: 10mm
Qty: 50



Metric Torx® Head Tapping Screws
300 Series Stainless Steel
Art. No. 502.14053
OEM #: 11505182

Material: Black Oxide
 Size: M4.6-1.41 x 25mm
 Head Style: M7 Oval
Qty: 50



Hex Head Sems®
Art. No. 502.15373
OEM #: 11503892,11500434

Material: Phosphate
 Size: M4.6-1.41 x 20mm
 Washer Head Dia: 16mm
 Hex: 7mm
Qty: 50



Hex Washer Head
Art. No. 502.12350
OEM #: 11500086

Material: Phosphate
 Size: M8-2.12 x 20mm
 Washer Dia: 16mm
 Hex: 13mm
Qty: 25



PH Washer Head Pozi-Drive
Art. No. 502.12062
OEM #: 11501903

Material: Black Oxide
 Size: M4.6-1.41 x 10mm
 Washer Dia: 11mm
Qty: 100



Hex Head Sems® Class 9.8
Art. No. 502.12322
OEM #: 11503815, 11508023

Material: Phosphate
 Size: M6-1.0 x 20mm
 Washer Dia: 21/32"
 Hex: 10mm
Qty: 25



Hex Head Sems®
Art. No. 502.12354
OEM #: 11500997

Material: Phosphate
 Size: M6.3-1.81 x 30mm
 Washer Dia: 17mm
 Hex: 10mm
Qty: 50



Hex Washer Head Sems® with Teks® Point
Art. No. 502.18261
OEM #: 11503578, 11503785

Material: Phosphate
 Size: M4.2 - 1.41 x 16mm (#8 x 5/8)
 Washer O.D: 12mm
 Hex: 7mm
Qty: 100



M6-1.0 Specialty Insert
Art. No. 502.20395
OEM #: 10281487

Material: Zinc & Yellow
 Grip: .7mm-4.2mm
 Head Dia: 13mm
 Hex Size: 9.5mm (3/8")
 Front Fender Buick, Cadillac, Corvette, L.D. Truck, Olds Aurora and Pontiac 1997 - On
Qty: 10



M6-1.0 Specialty Insert
Art. No. 502.20422
OEM #: 11519952

Material: Zinc & Yellow
 Grip: .7mm-4mm
 Head Dia: 13mm
 Hex Size: 9.5mm (3/8")
 Front Core Support & General Purpose
 GM Envoy & Trailblazer 2002 - On
Qty: 15



M6 - 1.0 Specialty Insert w/ Sealer
Art. No. 502.20415
OEM #: 15685099

Material: Zinc & Yellow
 Grip: .65mm - 2.0mm
 Head Dia: 12mm
 Hex Size: 8mm
 Roof Rack, Tailgate & General Purpose
 GM APV Vans, C & K Trucks and Ford Explorer 1991 - On
 Ford OEM #: N803763-S100
Qty: 10

GM

HARDWARE/BODY BOLTS/SCREWS



Hex Head Sems® Body Bolts
Art. No. 502.9757

Material: Phosphate
Size: 1/4"-20 x 1"
Washer O.D.: 1"
Hex: 3/8"
Qty: 100



Well Nut
Art. No. 502.13005
OEM #: 14048060

Thread: #8-32
Hole Size: 5/16"
Grip Range: .015-.172
Qty: 25



Well Nut
Art. No. 502.13003
OEM #: 20130258

Material: Neoprene w/ Captive Brass Nut
Head Dia: .787
Length: .630
Hole: 1/2
Panel Thickness: 015-.094
Qty: 10



Well Nut
Art. No. 502.13004
OEM #: 528846

Thread: 1/4 - 20"
Hole Size: 1/2"
Grip Range: .015 - 111
AMC OEM #: 4003120
Qty: 25



Special Purpose Jack Nut
Art. No. 502.12999
OEM #: 14007940

Material: Zinc w/Raintite
Thread Size: M6-1.0
Qty: 10



Jack Nut
Art. No. 502.12995
OEM #: 367292

Material: Zinc with Sealer
Thread: 1/4"-20
Chrysler OEM #: 6031438
Qty: 25



Door Hinge Bushing
Art. No. 502.14550
OEM #: 9721917

Height: 19/64"
O.D.: 27/64"
Flange O.D.: 19/32"
I.D.: 11/32"
Ford OEM #: D1AZ-6522841A
Qty: 25



Washer Type Metric Self Threading Nut
Art. No. 502.12255
OEM #: 11501836

Material: Zinc
Stud: 6.3mm
Washer O.D.: 18mm
Hex: 11mm
Qty: 100



Metric Hex Flange Nut
Art. No. 502.11644
OEM #: 11501889

Material: Phosphate
Thread Size: M8-1.25
Washer O.D.: 17mm
Height: 8mm
Hex: 13mm
Qty: 50



Metric Free Spinning Washer Nut
Art. No. 502.15335
OEM #: 11503695, N621940

Material: Phosphate
Thread Size: M8-1.25
Type B
Washer O.D.: 24mm
Height: 10.5mm
Hex: 13mm
Qty: 25



Metric Free Spinning Washer Nut
Art. No. 502.12596
OEM #: 11503754, 11503756

Material: Phosphate
Thread Size: M6-1.0
Type A
Washer O.D.: 19mm
Height: 9.5mm
Hex: 11mm
Qty: 50



Metric Free Spinning Washer Nut
Art. No. 502.15334
OEM #: 11501800

Material: Phosphate
Thread Size: M8-1.25
Type B
Washer O.D.: 19mm
Height: 10mm
Hex: 13mm
Qty: 100

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

GM

HARDWARE/BODY BOLTS/SCREWS



Washer Type Self Threading Nut
Art. No. 502.12253
OEM #: 11501835

Material: Phosphate
 Stud: 5mm
 Washer O.D.: 15mm
 Hex: 10mm
Qty: 100



Extruded "U" Nut
Art. No. 502.11864
OEM #: 11503714, 11503716

Material: Phosphate
 Size: M6-1.0
 Panel Range: .80mm-4.00mm
 Center of Hole to Edge:13.5mm
Qty: 50



Extruded "U" Nut
Art. No. 502.12575
OEM #: 11503715, 11508241

Material: Phosphate
 Size: M6-1.0
 Panel Range: .80mm-4.0mm
 (.030"-.160")
 Center of Hole to Edge:19.5mm (25/32")
Qty: 50



Spring Type Fold Nut
Art. No. 502.11628
OEM #: 9433043, 11500658

Material: Phosphate
 Size: M6.3-1.0
 Panel Range: 80mm-4.00mm(.030"-.160")
 Center of Hole to Edge:13.5 mm (17/32")
Qty: 50



Spring Type "U" Nut
Art. No. 502.9879
OEM #: 9440178, 11504531, 381863-S2

Material: Phosphate
 Screw Size: 8
 Panel Range: .025"-.150"
 Center of Hole to Edge: 5/8"
Qty: 100



Extruded "U" Nut
Art. No. 502.8814
OEM #: 1494258, 379831-S

Material: Phosphate
 Screw Size: 5/16"-18
 Panel Range: .025"-.150"
 Center of Hole to Edge: 27/32"
Qty: 25



Extruded "U" Nuts
Art. No. 502.12666
OEM #: 11504978

Material: Zinc Organic Phosphate
 Screw Size: M6-1.0
 Panel Range: 1.0mm-5.0mm
 Center of Hole to Edge: 14.5mm
Qty: 25



Spring Type "U" Nut Extruded Locking
Art. No. 502.10066

Material: Phosphate
 Screw Size: #10
 Panel Range: .025-.125"
 Center of Hole to Edge: 11/32"
Qty: 50



1/4" (#14) Screw Size License Plate Nut
Art. No. 502.8435
OEM #: 4755299

Material: Nylon
Qty: 50



Spring Type "U" Nuts
Art. No. 502.9880
OEM #: 9424837, 9431530

Material: Phosphate
 Screw Size: #8
 Panel Range: .025"-.150"
 Center of Hole to Edge: 3/8"
 Ford OEM #: 381818-S2
Qty: 100



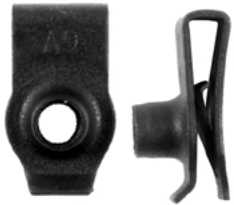
Extruded "U" Nuts
Art. No. 502.16322
OEM #: 14040999

Material: Phosphate
 Screw Size: M6-1.0
 Panel Range: 1.0mm-2.5mm
 Center of Hole to Edge: 19.5mm
Qty: 50



Extruded "U" Nut
Art. No. 502.18338
OEM #: 11505596

Material: Phosphate
 Size: FM5-8
 Panel Range: .60mm-3.8mm
 Center of Hole to Edge: 11mm
 Ford OEM #: N623331-S2
Qty: 45

GM
HARDWARE/BODY BOLTS/SCREWS


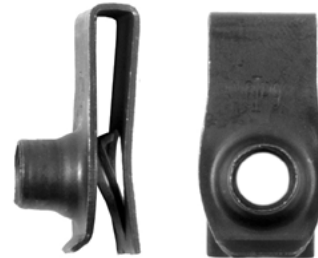
Metric U Nut
Art. No. 502.12669
OEM #: 1016937, 11503957
N623336-S2

Screw Size: M6-1.0
 Panel Range: .80mm-4.00mm
 Center Of Hole To Edge: 13.5mm (17/32")
Qty: 50



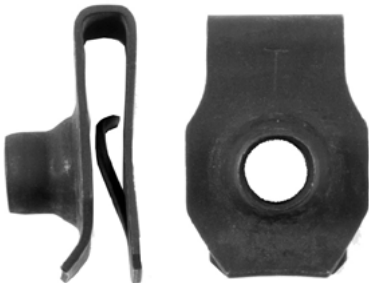
Extruded "U" Nut
Art. No. 502.11629
OEM #: 11500660, 11502617

Material: Phosphate
 Screw Size: M8-1.25
 Panel Range: .80mm-4.0mm (.30"-1.60")
 Center of Hole to Edge: 14.5mm (9/16")
 Ford OEM #: N623333-S2
Qty: 50



Extruded "U" Nut
Art. No. 502.11630
OEM #: 11500661, 11503317

Material: Phosphate
 Screw Size: M8-1.25
 Panel Range: .80mm-4.50mm (.30"-1.70")
 Center of Hole to Edge: 20mm (13/16")
 Ford OEM #: N6233343-S2 & S100
Qty: 50



Extruded "U" Nut
Art. No. 502.10054
OEM #: 1494254, 12337873, 45265-S2

Screw Size: 3/8"-16
 Panel Range: .050-.200"
 Center of Hole to Edge: 3/4"
Qty: 25



Extruded "U" Nut
Art. No. 502.18339
OEM #: 11500663

Material: Zinc Organic
 Size: M10-1.5
 Panel Range: 1.5mm-5.5mm
 Center of Hole to Edge: 28mm
 Ford OEM #: N623344-S2
Qty: 10



Extruded "U" Nut M10-1.5
Art. No. 502.11631
OEM #: 1150-0662, 2253-1616

Screw Size: M10-1.50
 Panel Range: 1.0mm-6.0mm
 Center of Hole to Edge: 19mm
Qty: 25

GM
NYLON RIVETS


Blind Nylon Rivet
Art. No. 502.13750
OEM #: 14063981

Material: Black Nylon
 Hole: 1/4"
 Panel Range: 5/32"-13/32"
 Ford OEM #: N803043-S
 Chrysler OEM #: 6500911
Qty: 50



Blind Nylon Rivet
Art. No. 502.13747
OEM #: 20423647

Material: Black Nylon
 Hole: 13/64
 Panel Range: 1/16-11/64"
 Ford OEM #: N804189S
Qty: 25



Blind Nylon Rivet
Art. No. 502.13748
OEM #: 20432975

Material: Black Nylon
 Hole: 13/64"
 Panel Range: 1/8"-15/64"
 Volkswagen OEM #: 175-853-57701C
 Ford OEM #: N804343S
 Chrysler OEM #: 6503800
Qty: 25



Blind Nylon Rivet
Art. No. 502.13753
OEM #: 20433026

Material: Black Nylon
 Hole: 17/64"
 Panel Range: 3/32"-3/16"
 Volkswagen OEM #: 175-853-577A
Qty: 50



Blind Nylon Rivet
Art. No. 502.13751
OEM #: 10184895

Material: Black Nylon
 Hole: 1/4"
 Panel Range: 5/32"-13/32"
 Ford OEM #: N803866-S
 Chrysler OEM #: 6501559
Qty: 25



Blind Nylon Rivet
Art. No. 502.15490
OEM #: 10109689,12337915

Material: Black Nylon
 Hole: 9/32"
 Panel Range: 3/32"-15/64"
Qty: 100



Blind Nylon Rivet
Art. No. 502.13752
OEM #: 15955172, 20421672

Material: Black Nylon
 Hole: 17/64"
 Panel Range: 3/32"-3/16"
Qty: 25



Split-Type Rivet
Art. No. 502.20741
OEM #: 11516807

Material: Black Aluminum Rivet/
 Aluminum Mandrel
 Dia: 3/16"
 Grip: 3/64" - 23/64"
 Flange Dia: 5/8"
Qty: 25



Window Regulator Rivet
Art. No. 502.11620
OEM #: 9436175

Material: Aluminum
 Rivet, Steel Mandrel
 Dia: 1/4"
 Grip Range: 1/32"-9/64"
 Flange Dia: 1/2"
 GM 1971 - On
 Ford OEM #: 385189-S100
 Chrysler OEM #: 6031115
Qty: 50



Channel Retainer Rivet
Art. No. 502.17640
OEM #: 3540146, 3548011

Material: Steel Rivet &
 Mandrel (Zinc & Yellow Dichromate)
 Dia: 1/4"
 Flange Dia.: 3/4"
 Grip Range: .070-.083
Qty: 15



Window Regulator
Art. No. 502.12658
OEM #: 12338158, 20184399

Material: Aluminum Rivet/Steel
 Mandrel (Zinc/Yellow)
 Dia: 1/4"
 Flange Dia: 1/2"
 Grip Range: 11/16"-3/4"
 GM & Ford 1979 - On
 Ford OEM #: 389268-S100
Qty: 25



Blind Rivet
Art. No. 502.17641
OEM #: 9442361, 25609048

Material: Aluminum Rivet
 Steel Mandrel
 Dia: 3/16"
 Flange Dia: 9/16"
 Grip Range: 3/64"-13/64"
Qty: 25



**Aluminum Rivet Steel Mandrel
 Large Flange Multi-
 Purpose Rivet**
Art. No. 502.16686
OEM #: 9432552

Material: Aluminum Steel Mandrel
 Dia: 1/8"
 Grip: 1/8" - 3/16"
 Flange Dia: 3/8"
 GM 1978+ / On
Qty: 100



Specialty Rivet
Art. No. 502.12657
OEM #: 9439719

Material: Steel Rivet (Black) & Steel
 Mandrel
 Dia: 3/16"
 Grip: 1/4"-3/8"
 Flange Dia: 5/8"
 Attaches Fascia To Underside Bumper
 GM 1981-On
Qty: 100

GM

SPECIALTY RIVETS



**Aluminum Rivet, Steel Mandrel
Countersunk Head Trunk Lock
Swivel Emblem Rivet**
Art. No. 502.16687
OEM #: 9432137

Material: Aluminum Steel Mandrel
Dia: 5/32"
Grip: 1/8"-3/16"
Flange Dia: 5/16"
Chrysler OEM #: 6032138
Qty: 100



**Split Type Rivet, Wheel House
Moulding & General Purpose**
Art. No. 502.17121
OEM #: 25618730

Material: Black Aluminum
Rivet/ Aluminum
Mandrel
Dia: 3/16"
Flange Dia: 7/16"
Grip Range: 5/64"-15/64"
Ford OEM #: N805596-S100
Qty: 25



Rivet Step Bumper
Art. No. 502.21124
OEM #: 11610383

Material: Steel, Zinc & Yellow
Dia: 1/4"
Grip: 1/64 - 1/8
Flange Dia: 1/2
GM Silverado & Sierra
Pick Ups 2007 - On
Qty: 25

HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES



**Door Upper Hinge,
Splined O.D.
Bushing**
Art. No. 502.16936
**OEM #: 12338074, 15691493,
16632193**

Flange Dia: 43/64"
O.D.: 1/2"
I.D.: 11/32"
Height: 23/64"
GM Trucks C-K Models '88 & on
Qty: 25



**Door Lower Hinge,
Splined O.D.
Bushing**
Art. No. 502.16937
**OEM #: 15562609, 15964972,
16632192**

Flange Dia: 11/16"
O.D.: 17/32"
I.D.: 25/64"
Height: 23/64"
Qty: 25



Door Hinge Pin Retainer
Art. No. 502.17976
OEM #: 15562610

Material: Stainless Steel
Shoulder Dia: 1/64"
Washer O.D.: 9/16"
I.D.: 21/64"
Qty: 50



**Bushing, Sintered
Bronze, Type2**
Art. No. 502.14553
OEM #: 20429500

Flange Dia.: 19/32"
O.D.: 31/64"
I.D.: 11/32"
Height: 23/64"
All GM (including Vans and Pickups)
1968 - On
Qty: 25

GM

HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES



Truck Door Hinge Pin & Bushing Repair Kit.
Art. No. 502.20485
OEM #: 89025539

GM
Qty: 1



Hood Insulation Retainer
Art. No. 502.20399
OEM #: W701374-S

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Dia: 7/32"
 Stem Length: 15/32"
 Ford Escape 2001-On
Qty: 25



Tailgate Rod Clip
Art. No. 502.18926
OEM #: 14037239, 15545178

Material: Natural Nylon
 Rod Size: 3/16"
 GM Trucks C, K, 1, 2, 3
 1981 - On
Qty: 10



Door Lock Rod Clip
Art. No. 502.18392
OEM #: 20582532

Material: Black Nylon
 Diameter Rod Size: 5/32"
 Gm, Pontiac, Chevrolet Caprice, Olds
 Custom Cruiser & Cutlass
Qty: 25



Door Lock Rod Clip
Art. No. 502.18393
OEM #: 20582533

Material: Natural Nylon
 Dia: 5/32"
 GM: Buick Regal & Roadmaster; Chevy
 Caprice; Olds Custom Cruiser/Cutlass;
 & Pontiac Grand Prix 1992 & on
Qty: 25



Door Lock Rod Clip
Art. No. 502.15518
OEM #: 4234830, 12337868

GM 1964 - On
Qty: 25



**Door & Window Crank
 Handle Retaining Clip.**
Art. No. 502.2288

Material: Zinc & Yellow
Qty: 100

GM

HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES



Door Roller Pin Assembly
Art. No. 502.19725

Material: Zinc
Dia: 9/16"
Length: 5-1/2"
Roller O.D.: 3/4"
Roller Groove Dia: 5/8"
Knurl Dia: 19/32"
Qty: 1



Door Hinge Pin
Art. No. 502.17204
OEM #: 15591860, 15691595, 15967691, 88891731

Material: Stainless Steel
Pin Dia: 11/32"
Shoulder Dia: 3/8" O.D.
Head O.D.: 9/16"
Length: 5-1/4"
Qty: 5



Door Hinge Pin
Art. No. 502.14559
OEM #: 6271989, 20046147

Material: Phosphate
Head O.D.: 9/16"
Length: 4-1/16"
Pin Dia: 11/32"
Qty: 10



Door Hinge Pin
Art. No. 502.19781
OEM #: 15653790

Material: Zinc & Yellow
Length: 4-1/8"
Pin Dia: 11/32"
Shoulder O.D.: 3/8"
Head O.D.: 1/2"
Qty: 2

HONDA
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| OEM No. | Art. No. | Type |
|----------------------|-------------------|--|
| 66435-648-0000 | 500.14291 | Retaining Clip |
| 71144-SR3-A00 | 500.18415 | Bumper Grommet |
| 74846-659-0030 | 500.16779 | Retaining Clip |
| 75521-611-0000 | 500.14274 | #10 Screw Size Grommet |
| 75526-611-0000 | 500.14255 | Screw Grommet |
| 90107-SXO-003 | 500.19734 | Bumper Grommet |
| 90108-SW3-003 | 500.19470 | Bumper Retainer |
| 90114-SEO-000 | 500.20259 | PH Truss Head Sems® Splash & Shield General Purpose¹ |
| 90505-SM4-003 | 500.17057 | Push-Type Retainer |
| 90505-SXO-003 | 500.19453 | Garnish Side Protector Push-Type Retainer |
| 90654-SA4-003 | 500.19730 | Wire Routing Clip |
| 90661-SC7-0030 | 500.14695 | Screw Grommet #8 |
| 90666-671-0030 | 500.14313 | Clip |
| 90666-693-003 | 500.14281 | Screw Grommet |
| 90664-671-0030 | 500.14328 | Weatherstrip Retainer |
| 90666-SA0-0030 | 500.14289 | Retainer |
| 90667-SA7-0030 | 500.16775 | Trim Panel Retainer |
| 90667-SA0-0030 | 500.16776 | Trim Panel Retainer |
| 90667-SOD-003ZC | 500.20334 | Trunk Garnish Retainer |
| 90670-SG0-003 | 500.19741 | Door Panel Screw Grommet |
| 90676-SA7-003 | 500.17058 | Headlight Adjusting Screw Nut |
| 90686-SEA-003 | 500.20954 | Fender Apron Screw Grommet |
| 90683-SA5-003 | 500.19311 | Front Fender Skirt Push-Type Retainer |
| 90684-SA5-0030 | 500.14696 | Push Type Retainer |
| 90687-SA5-0030 | 500.896715 | Retaining Clip |
| 90687-SBO-003 | 500.17287 | Cowl Vent Panel Retainer |
| 90687-SBO-013 | 500.17287 | Cowl Vent Panel Retainer |
| 90688-SBO-003 | 500.14698 | Push-Type Retainer |
| 90700-SB6-003 | 500.15998 | Hood Insulation Retainer |
| 91501-S04-003 | 500.19118 | Front Fender Retainer |
| 91501-S1K-003 | 500.20609 | Hood Insulation Retainer |
| 91501-SEA-003 | 500.20882 | Cowl & Garnish Retainer |
| 91501-SM4-003 | 500.17205 | Cowl Top Retaining Clip |
| 91506-SM4-000 | 500.17143 | Push-Type Retainer |
| 91506-SP0-003 | 500.18119 | Front & Rear Bumper Push-Type Retainer |
| 91503-S0K-A01 | 500.20608 | Grille Mounting Push-Type Retainer |
| 91503-SZ3-003 | 500.19233 | Front Bumper Push Type Retainer |
| 91503-SZ5-003 | 500.20564 | Front & Rear Bumper Push-Type Retainer |
| 91504-SM4-000 | 500.17144 | Push-Type Retainer |
| 9156-S9A-003 | 500.21173 | Push-Type Retainer |
| 91508-SM4-003 | 500.17192 | Cowl Panel Retainer |
| 91508-SR3-000 | 500.18165 | Cowl Grille Panel Push Type Retainer |
| 91516-SM-4-003 | 500.17379 | Fender Splash Shield Retainer |
| 91516-SR3-004 | 500.20472 | Tubular Nut |
| 91516-SX0-003 | 500.19239 | Front Fender Push-Type Retainer |
| 91513-SM4-000 | 500.17096 | Rocker Panel Moulding w/Sealer Washer |
| 91516-SK7-013 | 500.17350 | Splash Shield Push-Type Retainer PH Drive |
| 91518-S10-003 | 500.19682 | Hood Seal Retaining Clip Head |
| 91518-SM4-003 | 500.19114 | Hood/Trunk Molding Retaining Clip |
| 91520-SM4-C010 | 500.18114 | Hood Insulation Retaining Clip |
| 91524-SE0-003 | 500.17081 | Cowl Push-Type Retainer |
| 91527-SM4-003 | 500.19415 | Belt Moulding Clip |
| 91527-SZ3-003 | 500.19415 | Belt Moulding Clip |
| 91530-SP1-003 | 500.18877 | Weatherstrip Retainer |
| 91530-ST5-003 | 500.19116 | Weatherstrip Retainer |
| 91545-SE0-0030-W1 | 500.16782 | Push-Type Retainer |
| 91560-SP0-003 | 500.19145 | Front & Rear Door Trim Panel Retainer |
| 91561-S84-A00-M1 | 500.20352 | Rear Panel Assembly Push-Type Retainer |
| 91561-S84-A01 | 500.19415 | Belt Moulding Clip |
| 91566-SP0-003 | 500.18294 | Retainer-Seat Panel |
| 91578-SV4-003 | 500.18457 | Radiator Grille Clip |
| 91626-SH3-003 | 500.19741 | Door Panel Screw Grommet |
| MR200300(Mitsubishi) | 500.20247 | Fender & Bumper Retainer |

ACURA

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| 90657-SB0-003 | 500.19186 | Front Bumper Cover Push-Type Retainer |
| 90666-SA7-003ZW | 500.19506 | Trunk Lining Retainer |
| 90700-SJ4-000 | 500.18746 | Hood Insulation Retainer |
| 91506-SZ5-003 | 500.19232 | Front Fender Push-Type Retainer |
| 91503-SP0-003 | 500.17267 | Front & Rear Bumper Push-Type Retainer |
| 91503-SZ3-003 | 500.19233 | Front Bumper Push-Type Retainer |
| 91516-SX0-003 | 500.19239 | Front Fender Push-Type Retainer |
| 91560-SZ3-003 | 500.19466 | Door Trim Panel Retainer |

HONDA/ACURA

RETAINERS



Splash Shield Push-Type Retainer
PH Drive
Art. No. 500.17350
OEM #: 91516-SK7-013

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 15mm
 Fits Into: 8mm Hole
 10mm Hex
 Civic 1992 - On
Qty: 20



Front & Rear Bumper Push-Type Retainer
Art. No. 500.18119
OEM #: 91506-SP0-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 25mm
 Fits Into: 10mm Hole
 Honda 1990 - On
Qty: 10



Hood Insulation Retainer
Art. No. 500.18746
OEM #: 90700-SJ4-000

Material: Black Nylon
 Head Dia: 30mm
 Stem Dia: 15mm x 18mm
 Stem Length: 10mm
 Acura Legend 1991 - On
 Honda 1998 - On
Qty: 25

HONDA/ACURA RETAINERS


Push-Type Retainer
Art. No. 500.19140
OEM #: 90505-SL0-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 21mm
 Fits Into: 8mm Hole
 1993 - On
 Acura, Dodge Avenger, Eagle
 Talon, Geo Prizm, Mitsubishi Eclipse
 & Galant, Toyota 1993 - On
 Mitsubishi OEM #: MB888869
 GM OEM #: 94852368
 Toyota OEM #: 90467-08155
Qty: 10



**Front Bumper Cover
 Push-Type Retainer**
Art. No. 500.19186
OEM #: 90657-SB0-003

Material: Black Nylon
 Head Dia: 11mm
 Stem Length: 10mm
 Fits Into: 8mm Hole
 Acura Legend, Honda Accord & Odys-
 sey
 1991 - On
Qty: 10



**Front & Rear Bumper
 Push-Type Retainer**
Art. No. 500.17267
OEM #: 91503-SPO-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 15mm
 Fits Into: 10mm Hole
 Legend 1991 - On
Qty: 25



**Front Bumper Push-
 Type Retainer**
Art. No. 500.19233
OEM #: 91503-SZ3-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 13mm
 Fits Into: 10mm Hole
 Acura 3.5 RL Sedan & Honda
 1996 - On
Qty: 25



Front Fender Push-Type Retainer
Art. No. 500.19239
OEM #: 91516-SX0-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 11mm
 Fits Into: 8mm Hole
 Acura 3.5RL, Honda Accord, Prelude &
 Odyssey 1994 - On
 GM 1997 - On
 Mitsubishi Lancer 2002 - On
Qty: 25



Door Trim Panel Retainer
Art. No. 500.19466
OEM #: 91560-SZ3-003

Material: White Nylon
 Stem Dia: 9.5mm
 Stem Length: 12mm
 Small Head Dia: 13mm
 Large Head Dia: 17mm
 Acura 3.5RL 1996 - On
Qty: 25



Front Fender Push-Type Retainer
Art. No. 500.19232
OEM #: 91506-SZ5-003

Material: Black Nylon
 Head Dia: 17mm
 Stem Length: 13mm
 Fits Into: 7mm Hole
 3.5 RL Sedan 1996 - On
Qty: 10



Trunk Lining Retainer
Art. No. 500.19506
OEM #: 90666-SA7-003ZW

Material: Black Nylon
 Head Dia: 16mm
 Stem Dia: 5mm
 Stem Length: 16mm
 Acura 2.5TL, 3.2TL, 3.5,
 Integra & Legend,
 Honda Accord Wagon &
 Prelude 1987 - On
Qty: 25

HONDA/ACURA RETAINERS



Black Nylon Rocker Moulding Push-Type Retainer
Art. No. 502.22482
OEM#: 91514-TF0-003

Head Diameter: 18mm
 Stem Length: 13mm
 Fits into 9mm Square Hole
Qty: 25



Black Nylon Inner Fender Wheel Well Retainer Head
Art. No. 502.22514
OEM#: 91512-SED-003

Diameter: 18mm
 Stem Diameter: 4.1mm
 Stem Length: 16mm
Qty: 25



Black Nylon Weatherstrip Retainer
Art. No. 502.22541
OEM#: 91563-TG7-A00

Head Diameter: 12mm
 Stem Diameter: 8mm
 Stem Length: 10mm
Qty: 100



Black Nylon Cowl Vent Retaining Clip
Art. No. 502.22560
OEM#: 90602-SJK-003

Top Head: 14mm x 16mm
 Bottom Head Diameter: 16mm
 Stem Size: 8mm x 10mm
 Stem Length: 13mm
Qty: 20



Gray Nylon Tail Light Screw Grommet With Sealer
Art. No. 502.22547
OEM#: 91626-STK-A01

Head Diameter: 18mm
 Stem Length: 14mm
 Overall Length: 16mm
Qty: 25



Yellow Nylon Garnish Retainer with Sealer
Art. No. 502.22499
OEM#: 91560-TX4-A01

Top Head Diameter: 13mm
 Middle Head Diameter: 16.3mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.5mm
 Stem Length: 13mm
Qty: 25



Green Nylon Garnish Retainer With Sealer
Art. No. 502.22544
OEM#: 91560-TG1-T01

Top Head Diameter: 13mm
 Middle Head Diameter: 16.5mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.3mm
 Stem Length: 12mm
Qty: 25



Tan Nylon Garnish Retainer with Sealer
Art. No. 502.22545
OEM#: 91560-TL0-G21

Top Head Diameter: 13mm
 Middle Head Diameter: 16.5mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9mm
 Stem Length: 9mm
Qty: 25



Black Nylon Weatherstrip Retainer
Art. No. 502.22553
OEM#: 90651-T2M-003

Head Size: 4mm x 10mm
 Stem Diameter: 6.5mm
 Stem Length: 7mm
Qty: 25



Black Nylon Door Seal Retainer
Art. No. 502.22586
OEM#: 90651-TG7-000

Head Diameter: 10.6mm
 Stem Diameter: 5.5mm
 Stem Length: 8mm
Qty: 50



Black Nylon Engine Cover Retainer
Art. No. 502.22588
OEM#: 91547-TZ5-A02

Top Head Diameter: 13mm
 Bottom Head Diameter: 14mm
 Stem Length: 17mm
 Overall Length: 22mm
Qty: 50



Black Metal Nylon, Front Fender Liner & Engine Cover Push-Type Retainer, Phillips Truss Head Stainless Steel Screw
Art. No. 502.22434
OEM#: 91514-SLN-A01

Head Diameter: 15.5mm
 Grommet Head: 19.3mm x 19.3mm
 Stem Length: 10mm
 Fits into 10mm Hole
Qty: 10

HONDA/ACURA
RETAINERS


Weatherstrip Retainer
Art. No. 500.19116
OEM #: 91530-ST5-003

Material: Natural Nylon
 Head Size: 5mm x 15mm
 Stem Length: 10mm
 Fits Into: 6mm Hole
Qty: 25



Weatherstrip Retainer
Art. No. 500.18877
OEM #: 91530-SP1-003

Material: Red Nylon
 Head Size: 5mm x 15mm
 Stem Length: 10mm
 Fits Into: 6mm Hole
 Acura 3.5 RL & Honda Accord, Civic,
 & Odyssey 1992 - On
Qty: 25



Weatherstrip Retainer
Art. No. 500.14328
OEM #: 90664-671-0030

Material: White Nylon
 Width: 7mm
 Length: 16mm
 Stem Length: 10mm
 Fits Into: 5mm Hole
Qty: 75



Retainer-Seat Panel
Art. No. 500.18294
OEM #: 91566-SP0-003

Material: White Nylon
 Small Head Dia: 13mm
 Large Head Dia: 18mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
Qty: 25



Front Fender
Art. No. 500.19118
OEM #: 91501-S04-003

Material: Black Nylon
 Head Dia.: 20mm
 Stem Length: 10mm
Qty: 25



Front Bumper Push-Type Retainer
Art. No. 500.19233
OEM #: 91503-SZ3-003

Material: Black Nylon
 Head Dia.: 20mm
 Stem Length: 13mm
 Fits Into: 10mm
 Acura OEM #: 91503-SZ3-003
Qty: 25



Cowl Grille Panel Push Type Retainer
Art. No. 500.18165
OEM #: 91508-SR3-000

Material: Black Nylon
 Head Dia.: 17.5mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
Qty: 10



Retaining Clip
Art. No. 500.16779
OEM #: 74846-659-0030

HONDA
 Material: Black Nylon
 Bottom Head Dia: 18mm
 Stem Dia: 11mm
 Stem Length: 15mm
 Toyota OEM #: 90467-12078
Qty: 25



Cowl Vent Panel Retainer
Art. No. 500.17287
OEM #: 90687-SBO-003, 90687-SBO-013

Material: Black Nylon
 Head Dia: 13mm
 Stem Length: 11mm
 Fits Into: 6mm Hole
Qty: 50



Cowl Push-Type Retainer
Art. No. 500.17081
OEM #: 91524-SE0-003

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 6mm Hole
Qty: 25



Fender Splash Shield Retainer
Art. No. 500.17379
OEM #: 91516-SM-4-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
Qty: 25



Push-Type Retainer
Art. No. 500.16782
OEM #: 91545-SE0-0030-W1

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 14mm
 Fits Into: 8mm Hole
 Nissan OEM #: 63848-01G00
Qty: 25

HONDA/ACURA RETAINERS



Retainer
Art. No. 500.14289
OEM #: 90666-SAO-0030

Material: Black Nylon
 Bottom Head Dia: 13mm
 Stem Dia: 5mm
 Stem Length: 16mm
Qty: 100



Trim Panel Retainer
Art. No. 500.16776
OEM #: 90667-SAO-0030

Material: Black Nylon
 Bottom Head Dia: 18mm
 Stem Dia: 7.5mm
 Stem Length: 20mm
 Nissan OEM #: 76996-01P02
Qty: 25



Cowl & Garnish Retainer
Art. No. 500.20882
OEM #: 91501-SEA-003

HONDA
 Material: Black Nylon
 Bottom Head Dia: 20mm
 Stem Dia: 7mm
 Stem Length: 15mm
 Honda Civic 2006 - On
Qty: 25



Push-Type Retainer
Art. No. 500.17143
OEM #: 91506-SM4-000

HONDA
 Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 27mm
 Fits Into: 10mm Hole
 Bumper Fascia, Accord 1990 - On
Qty: 50



Bumper & Splash Shield Push-Type Retainer with Metal Insert
Art. No. 500.21173
OEM #: 9156-S9A-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 16mm
 Fits Into: 10mm Hole
 Acura MDX, RDX & TSX and Honda Accord, Civic CR-V & Fit 2009 - 04
Qty: 10



Fender & Bumper Retainer
Art. No. 500.20247

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 9mm Hole
 Mitsubishi OEM #: MR200300
Qty: 15



Cowl Panel Retainer
Art. No. 500.17192
OEM #: 91508-SM4-003

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 14mm
 Fits Into: 8mm Hole
Qty: 10



Push Type Retainer
Art. No. 500.14696
OEM #: 90684-SA5-0030

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 11mm
 Fits Into: 6mm Hole
 Nissan OEM #: 10998-30880
 Isuzu OEM #: 8942981190
Qty: 50



Hood Seal Retaining Clip
Art. No. 500.19682
OEM #: 91518-S10-003

Material: Black Nylon
 Dia.: 11mm
 Stem Length: 8mm
 Fits Into: 6mm Hole
Qty: 25



Hood/Trunk Molding Retaining Clip
Art. No. 500.19114
OEM #: 91518-SM4-003

Material: Black Nylon
 Head Dia: 12mm
 Stem Length: 9mm
 Fits Into: 6mm
 Acura Integra & Honda Civic 1994 - On
Qty: 30



Hood Insulation Retaining Clip
Art. No. 500.18114
OEM #: 91520-SM4-C010

Material: Black Nylon
 Head Dia: 10mm
 Stem Length: 10mm
 Hole: 6mm
 Panel Thick.: 4mm
 Honda & Acura 1990 - On
Qty: 50



Front Fender
Art. No. 500.19239
OEM #: 91516-SX0-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 11mm
 Acura 3.5RL, Honda Accord, Prelude & Odyssey 1994 - On
 GM 1997 - On
 Mitsubishi Lancer 2002 - On
 GM OEM #: 11519949
 Mitsubishi OEM #: MU000319
Qty: 25

HONDA/ACURA RETAINERS



Rear Bumper Retainer
Art. No. 500.19470
OEM #: 90108-SW3-003

Material: Blue Nylon
 Bottom Head Dia: 16mm
 Stem Dia: 4mm
 Stem Length: 21mm
 Honda Accord, Odyssey & Prelude 1995-On
Qty: 25



Retaining Clip
Art. No. 500.896715
OEM #: 90687-SA5-0030

Material: Black Nylon
 Head Dia.: 13mm
 Stem Length: 15mm
 Panel Thick.: 4mm
 Fits Into: Snaps into a 5mm
Qty: 25



Hood Insulation Retainer
Art. No. 500.15998
OEM #: 90700-SB6-003

Material: Black Nylon
 Head Dia.: 30mm
 Stem Length: 9mm
 Fits Into: 6mm Hole
 Honda Prelude 1985 - On
Qty: 30



Push-Type Retainer
Art. No. 500.17144
OEM #: 91504-SM4-000

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 24mm
 Fits Into: 10mm Hole
 Bumper Fascia Accord 1990 - On
Qty: 25



Retaining Clip
Art. No. 500.14291
OEM #: 66435-648-0000

Material: Black Nylon
 Head Dia: 11mm
 Stem Length: 13mm
 Fits Into: Snaps into 5mm
 Panel Thick.: 5mm
Qty: 25



Trim Panel Retainer
Art. No. 500.16775
OEM #: 90667-SA7-0030

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 15mm
 Fits Into: 5mm Hole
 Nissan OEM #: 89427-98070
Qty: 25



Front & Rear Door Trim Panel Retainer
Art. No. 500.19145
OEM #: 91560-SP0-003

Material: Grey Nylon
 Head Dia: Bottom:17mm-Lg
 Top:13mm-5m
 Stem Dia: 9mm
 Stem Length: 12mm
Qty: 25



Hood Insulation Retainer
Art. No. 500.20609
OEM #: 91501-S1K-003

Material: Black Nylon
 Bottom Head Dia: 30mm
 Stem Dia: 15mm x 20mm
 Stem Length: 14mm
 Acura 3.5RL & RSX and Honda Civic & CR-V 2000 - On
Qty: 25



Trunk Garnish Retainer
Art. No. 500.20334
OEM #: 90667-SOD-003ZC

Material: Black Nylon
 Head Dia.: 18mm
 Stem Dia.: 7.5mm Sq.
 Stem Length: 20mm
Qty: 15



Push-Type Retainer
Art. No. 500.14698
OEM #: 90688-SB0-003

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 11mm
 Fits Into: 6mm Hole
 Acura & Honda
Qty: 50



Cowl Top Retaining Clip
Art. No. 500.17205
OEM #: 91501-SM4-003

Material: Black Nylon
 Head Dia: 14mm
 Stem Length: 15mm
 Fits Into: 6mm Hole
Qty: 25



Grille Mounting Push-Type Retainer
Art. No. 500.20608
OEM #: 91503-S0K-A01

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 14mm
 Fits Into: 10mm Hole
 Element 2003 - On
Qty: 25

HONDA/ACURA RETAINERS



Push-Type Retainer
Art. No. 500.17057
OEM #: 90505-SM4-003

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 21mm
 Fits Into: 8mm Hole
 Accord 1990 - On
Qty: 10



**Rear Panel Assembly
 Push-Type Retainer**
Art. No. 500.20352
OEM #: 91561-S84-A00-M1

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 21mm
 Fits Into: 8mm Hole
Qty: 10



**Front & Rear Bumper
 Push-Type Retainer**
Art. No. 500.20564
OEM #: 91503-SZ5-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 18mm
 Fits Into: 10mm Hole
 Acura 3.5RL and Honda
 Accord & Odyssey
 1996 - On
Qty: 30



**Rocker Panel Moulding
 w/Sealer Washer**
Art. No. 500.17096
OEM #: 91513-SM4-000

Material: Nylon
 Width: 20mm
 Length: 20mm
 Fits Into: 12mm Hole
Qty: 10



**Front Fender Skirt
 Push-Type Retainer**
Art. No. 500.19311
OEM #: 90683-SA5-003

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 13mm
 Fits Into: 6mm Hole
 Prelude 1996 - 92
Qty: 15



**Black Nylon Rear Bumper
 Garnish Retainer**
Art. No. 502.22469
OEM#: 90651-T3L-003

Top Head Diameter: 13mm
 Middle Head Diameter: 16.5mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.3mm
 Stem Length: 14mm
Qty: 25



**Natural Nylon Door Panel
 & Weatherstrip Retainer**
Art. No. 502.22551
OEM#: 90651-TA0-003

Top Head: 5mm x 12mm
 Bottom Head Diameter: 12mm
 Stem Diameter: 6mm
 Stem Length: 4.5mm
Qty: 50



**Garnish Side Protector
 Push-Type Retainer**
Art. No. 500.19453
OEM #: 90505-SX0-003

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 15mm (not
 including the pin)
 Fits Into: 8mm Hole
 Odyssey 1995 - On
Qty: 25

HONDA/ACURA

SCREW GROMMETS



#10 Screw Size
Art. No. 500.14274
OEM #: 75521-611-0000

Material: Natural Nylon
 13mm Wide, 13mm Long
 Snaps Into: 8.5mm x 8.5mm Hole
 Mazda OEM #: 9991-00-601
 Nissan OEM #: 9676-P0105
 Toyota OEM #: 90189-06010
Qty: 100



Screw Grommet #8 Screw Size
Art. No. 500.14695
OEM #: 90661-SC7-0030

Material: White Nylon
 Head Dia: 16mm
 Stem Length: 17mm
 Fits Into: 8mm x 8mm Hole
 Toyota OEM #: 90189-06042
 Nissan OEM #: 01651-00481
 Mazda OEM #: H001-50-841
 Mitsubishi OEM #: MS-480012
Qty: 50



Clip
Art. No. 500.14313
OEM #: 90666-671-0030

Material: Natural Nylon
 Screw Size: #10
 Length: 17mm
 Width: 17mm
 Fits Into: 8mm x 8.5mm Hole
 Nissan OEM #: 68425-H5000
 Mazda OEM #: 9991-00-503
Qty: 50



Screw Grommet
Art. No. 500.14281
OEM #: 90666-693-003

Material: White Nylon
 Screw Size: #6
 Head Dia: 14mm
 Stem Length: 10mm
 Fits Into: 7mm x 7mm Hole
 Toyota OEM #: 90189-04066
Qty: 25



Bumper Grommet
Art. No. 500.18415
OEM #: 71144-SR3-A00

Material: Natural Nylon
 Screw Size: #8
 Honda Civic 1993 - On
Qty: 25



Screw Grommet
Art. No. 500.14255
OEM #: 75526-611-0000

Material: Black Nylon
 Screw Size: #8
 9.5mm Wide, 9.5mm Long
 Snaps Into: 7mm x 7mm Hole
 Mazda OEM #: 9991-00-412
 Mitsubishi OEM #: MS-480001
Qty: 50



Bumper Grommet
Art. No. 500.19734
OEM #: 90107-SXO-003

Material: Black Nylon
 Screw Size: #10
 Acura 2.2CL, 2.3CL,
 2.5TL, 3.2TL, & 3.5RL
 Honda Accord & Prelude
 1996 - On
Qty: 15



Door Panel Screw Grommet
Art. No. 500.19741
OEM #: 90670-SG0-003, 91626-SH3-003

Material: Natural Nylon
 Screw Size: #8 (M4.2)
 Head Dia: 12mm
 Stem Length: 16mm
 Fits Into: 7mm x 7mm Hole
 Civic & CR-V 1993 - On
Qty: 15



Headlight Adjusting Screw Nut
Art. No. 500.17058
OEM #: 90676-SA7-003

Material: Natural Nylon
 Screw Size: M5-.8
 Prelude & Accord 1986 - On
Qty: 25



Fender Apron Screw Grommet
Art. No. 500.20954
OEM #: 90686-SEA-003

Material: Black Nylon
 Screw Size: #8 (M4.2)
 Head Dia: 20mm
 Stem Length: 12mm
 Fits Into: 9mm Square Hole
 Acura TSX and Honda
 Civic & Odyssey
 2004 - On
Qty: 50



Clear Nylon Rear Tail Light Grommet Head
Art. No. 502.22365
OEM #: 90650-S5A-003

Diameter: 18.5mm
 Stem Length: 24mm
 Overall Length: 25mm
Qty: 25

HONDA/ACURA
SPECIALTY CLIPS/MOULDING CLIPS

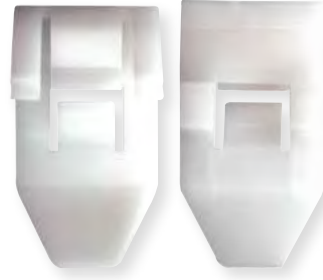

Radiator Grille Clip
Art. No. 500.18457
OEM #: 91578-SV4-003

Material: Nylon
 Accord, 1994 - On
Qty: 10



Wire Routing Clip
Art. No. 500.19730
OEM #: 90654-SA4-003

Material: Natural Nylon
 Holds 6mm Diameter Wire
 Fits Into: 7mm Hole
 Civic 1998 - On
Qty: 15



Belt Moulding Clip
Art. No. 500.19415
OEM #: 91527-SM4-003, 91527-SZ3-003, 91561-S84-A01

Material: White Nylon
 Accord & Odyssey 1990-On
Qty: 10



Black Nylon Hood Release Cable Clip
Art. No. 502.22518
OEM#: 91504-SDA-003

Holds 5mm Diameter
 Cable Stem Length: 6.5mm
 Fits into 7mm Hole
Qty: 25



Dark Gray Nylon Engine Cover Grommet
Art. No. 502.22599
OEM#: 91548-TZ5-A02

Head Size: 22mm x 14mm
 Stem Size: 13.5mm x 7.6mm
 Stem Length: 16mm
Qty: 25



Black Nylon Hood Prop Rod Clip
Art. No. 502.22548
OEM#: 90672-SNA-A01

Holds 8mm Rod
 Head Diameter: 18mm
 Stem Length: 10mm
 Overall Length: 26.5mm
Qty: 25



Green Nylon Door Belt Moulding Clip
Art. No. 502.22466
OEM#: 91503-SWA-A01

Width: 20mm
 Length: 38mm
Qty: 25



White Nylon Grille Clip
Art. No. 502.22546
OEM#: 90666-SDA-A01

Width Across Center Ears: 9mm
 Width Across Bottom Ears: 11mm
 Overall Height: 16.5mm
Qty: 25



Gray Nylon Pillar Garnish Clip
Art. No. 502.22467
OEM#: 91213-SZA-A01

Top Head Size: 7mm x 7mm
 Bottom Head Size: 10mm x 19mm
 Stem Length: 6mm
Qty: 30



Black Nylon Wheel Well Arch Protective Liner Moulding Clip with Sealer
Art. No. 502.22463
OEM#: 91513-T0A-A01

Top Head Size: 10mm x 10mm
 Bottom Head Size: 10mm x 19mm
 Stem Length: 11.5mm
Qty: 25



White Nylon Lower Door Garnish Moulding Clip with Sealer
Art. No. 502.22464
OEM#: 75316-TP6-A01

Top Head Size: 10mm x 12mm
 Bottom Head Size: 16mm x 21mm
 Stem Length: 9mm
 Fits into 10mm Hole
Qty: 25

HONDA/ACURA
SPECIALTY CLIPS/MOULDING CLIPS


**White Nylon Upper Side Sill
Garnish Clip with Sealer**
Art. No. 502.22468
OEM#: 91514-SYP-003

Top Head Size: 18mm x 16mm
Bottom Head Size: 22mm x 20mm
Stem Length: 7mm
Qty: 25

HONDA/ACURA
HARDWARE/BODY BOLTS/SCREWS


**PH Truss Head Sems® Splash
& Shield General Purpose'**
Art. No. 500.20259
OEM #: 90114-SEO-000

Material: Black E-coat
Dia: M4.8-1.6 x 19mm
Washer O.D.: 16mm
Stem Length: 19mm
Qty: 25

**Tubular Nut with Sealer
& Sealed End
For 3mm Stud**
Art. No. 500.20472
OEM #: 91516-SR3-004

Material: White Nylon
Head Dia: 8.5mm
Fits Into: 6mm Hole
Qty: 20

HONDA/ACURA
MISCELLANEOUS


Releasable Cable Strap
Art. No. 500.14298
OEM #: 90676-SA0-0030

Material: Nylon
Overall Length: 140mm (5-1/2")
Max. Bundle Dia: 30mm
Fits Into: 7mm Hole
Mazda OEM #: 9928-91-053
Qty: 25

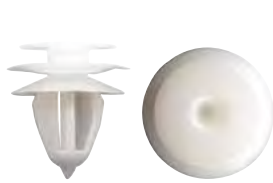
HYUNDAI/KIA

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| 87756-2E000 | 500.21136 | Moulding Clip with Sealer |
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| 87756-3D000 | 500.20566 | Body Side Moulding Clip with Sealer |
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HYUNDAI/KIA

RETAINERS



Trim Panel Retainer
Art. No. 500.21070
OEM #: 82315-38000

Material: White Nylon
 Head Dia: 16mm
 Top Head Dia: 13mm
 Stem Dia: 9.5mm
 Stem Length: 10mm
 Chevrolet Aveo 2004 - On
 Hyundai Accent, Santa Fe, Sonata
 Tiburon & XG300/350 1999 - On
 and Kia Optima, Rio & Sorento 2001
 - On
 GM OEM #: 94530565
Qty: 25



**Bumper, Fender, Grille, Interior
 & Exterior Trim and Pillar
 Push-Type Retainer**
Art. No. 500.21146
OEM #: OG036-50037-A

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
 Kia Amanti, Magentis, Optima, Rio,
 Sedona,
 Sephia, Sorrento, Spectra & Sportage
 2000 - On
Qty: 15



**Black Nylon Trunk
 Trim Retainer**
Art. No. 502.22555
OEM#: 0B102-68865

Head Diameter: 20mm
 Stem Diameter: 7mm
 Stem Length: 13mm
Qty: 25



**Black Nylon Bumper Cover
 Push-Type Retainer**
Art. No. 502.22595
OEM#: 86590-1W000

Head Diameter: 18mm
 Stem Length: 11mm
 Fits Into 8mm Hole
Qty: 25



**Red Nylon
 Weatherstrip Retainer**
Art. No. 502.22526
OEM#: 82133-37000

Head Size: 5mm x 13mm
 Stem Diameter: 5.5mm
 Stem Length: 6mm
Qty: 50

HYUNDAI/KIA
SPECIALTY CLIPS/MOULDING CLIPS


Black Nylon Rear Fender Liner Plug
Art. No. 502.22505
OEM#: 86825-26000

Head Diameter: 30mm
 Overall Height: 16.5mm
Qty: 30



Black Nylon Hood Prop Rod Clip
Art. No. 502.22507
OEM#: 81174-21000,
81174-11011 & 81174-21010

Bottom Base Size: 20mm x 20mm
 Stem Length: 9mm
 Overall Length: 25mm
Qty: 25



Black Nylon Hood Prop Rod Clip
Art. No. 502.22506
OEM#: 81174-2L000

Width: 20mm
 Length: 24mm
 Holds 8mm Rod
Qty: 25



White Nylon Door Trim, Roof & Spoiler Moulding Clip with Sealer
Art. No. 502.22438
OEM#: 87715-3K000

Head Size: 9mm x 18.3mm
 Stem Length: 10mm
Qty: 25



Gray Nylon Liftgate Moulding Clip with Sealer
Art. No. 502.22366
OEM#: 87382-2W000

Top Head Size: 10mm x 12mm
 Bottom Head Size: 14mm x 20mm
 Stem Length: 12mm
 Overall Length: 16mm
Qty: 25



White Nylon Fender, Body Side & Rocker Moulding Clip with Sealer
Art. No. 502.22470
OEM#: 87716-2W000

Top Head Size: 10mm x 12mm
 Bottom Head Size: 14mm x 20mm
 Stem Length: 11mm
Qty: 50

HYUNDAI/KIA
SPECIALTY CLIPS/MOULDING CLIPS


Moulding Clip with Sealer
Art. No. 500.21136
OEM #: 87756-2E000

Material: White Nylon
 Top Head Size: 10mm x 12mm
 Bottom Head Size: 14mm x 20mm
 Stem Length: 10mm
 Hyundai Entourage, Tucson & Veracruz
 and Kia Optima, Sedona, Spectra &
 Sportage
 2005 - On
Qty: 15



Body Side Moulding Clip with Sealer
Art. No. 500.20567
OEM #: 87756-38000

Material: Black Nylon
 Small Head Size: 8mm x 9mm
 Large Head Size: 14mm x 18mm
 Stem Length: 10mm
 Elantra & Sonata 2002 - On
Qty: 30



Body Side Moulding Clip with Sealer
Art. No. 500.20566
OEM #: 87756-3D000

Material: White Nylon
 Head Size: 14mm x 14mm
 Stem Length: 10mm
 M4.2 (#8) Screw Size
 Elantra & Sonata 2002 - On
Qty: 15



Rocker Panel Clip with Sealer
Art. No. 500.20568
OEM #: 87758-3D000

Material: Yellow Nylon
 Top Head Size: 16mm x 20mm
 Bottom Head Size: 14mm x 18mm
 Stem Length: 10mm
 Elantra & Sonata 2002 - On
Qty: 30



Yellow Nylon Trunk Side Trim Moulding Clip with Sealer
Art. No. 502.22500
OEM#: 87756-3N100

Top Head Size: 12mm x 12mm
 Bottom Head Size: 14mm x 18mm
 Stem Diameter: 14.5mm
 Stem Length: 16mm
Qty: 15



Pink Nylon Side Garnish Moulding Clip with Sealer
Art. No. 502.22508
OEM#: 87756-2J000

Head Size: 13mm x 16mm
 Stem Diameter: 11.5mm
 Stem Length: 9mm
Qty: 25



White Nylon Waist Line Moulding Trim Clip with Sealer
Art. No. 502.22565
OEM#: 87715-3S000

Head Size: 5mm x 14mm
 Stem Size: 5mm x 11mm
 Stem Length: 9mm
Qty: 25



White Nylon Moulding Clip with Sealer
Art. No. 502.22592
OEM#: 85818-37000

Top Head Size: 12.5mm x 14mm
 Bottom Head Diameter: 16mm
 Stem Diameter: 10mm
 Stem Length: 12.5mm
Qty: 25

HYUNDAI/KIA
HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES


Hood Insulation Retainer
Art. No. 500.20543
OEM #: 81126-37010

Material: Black Nylon
 Bottom Head Dia: 26mm
 Stem Dia: 12mm
 Stem Length: 14mm
 Hyundai Elantra & Sonata and Kia Optima
 1995 - On
Qty: 15



Black Nylon Door Weatherstrip
Art. No. 502.22558
OEM#: 82134-22000

Clip Height: 14mm
 Length: 20mm
Qty: 25

HYUNDAI/KIA

GROMMETS



Fender & Rocker Moulding Nylon Nut with Sealer
Art. No. 500.21066
OEM #: 87758-37000

Material: White Nylon
 Screw Size: M4.2 (#8)
 Head Size: 17mm x 17mm
 Stem Length: 14mm
 Hyundai Accent & Sonata 1999 - On
 Kia 2001 - On
Qty: 25



Headlight Assembly Grommet
Art. No. 500.21069
OEM #: 92351-37000

Material: Natural Nylon
 Head Dia: 15mm
 Stem Length: 8mm
 Fits Into: 10mm Hole
 XG300/350 2001 - On
 Kia 2000 - On
Qty: 25



White Nylon Bumper & Side Marker Lamp Screw Grommet with Sealer
Art. No. 502.22557
OEM#: 97519-22000

Screw Size: M3.5 (#6)
 Head Diameter: 14mm
 Stem Length: 16mm
 Fits Into 7mm x 7mm Hole
Qty: 50



Gray Nylon Bumper Screw Grommet
Art. No. 502.22563
OEM#: 86699-1E010

Screw Size: M4.8 (#10)
 Head Size: 12mm x 12mm
 Stem Length: 8mm
 Overall Height: 10mm
Qty: 25



Black Nylon Engine Under Cover & Rear Bumper Moulding Grommet
Art. No. 502.22435
OEM#: 84219-3L000

Screw Size: M6-1.0
 Head Diameter: 20mm
 Stem Diameter: 14mm
 Stem Length: 7mm
 Overall Length: 9.5mm
Qty: 25



Natural Nylon License Plate Grommet
Art. No. 502.22564
OEM#: 14910-04000, 92561-25000

Screw Size: M3.5 (#6)
 Head Diameter: 12mm
 Stem Length: 7mm
 Overall Height: 9mm
Qty: 25

HYUNDAI/KIA

RIVETS



Black Aluminum Rivet & Steel Mandrel Front & Rear Bumper Specialty Rivet
Art. No. 502.22481
OEM#: 14160-03133

Diameter: 3.2mm (1/8")
 Flange Diameter: 6.3mm (1/4")
 Grip Range: 4.0mm - 7.9mm (.158" - .311")
Qty: 50



Aluminum Rivet & Steel Mandrel Windshield Moulding Specialty Rivet
Art. No. 502.22436
OEM#: 14160-05130

Diameter: 4.8mm (3/16")
 Flange Diameter: 10mm (3/8")
 Grip Range: 1.6mm - 6.3mm (.063" - .250")
Qty: 50



Black Aluminum Rivet & Steel Mandrel Front & Rear Bumper Specialty Rivet
Art. No. 502.22437
OEM#: 14160-03103

Diameter: 3.2mm (1/8")
 Flange Diameter: 6.3mm (1/4")
 Grip Range: 0.8mm - 4.8mm (.032" - .189")
Qty: 50

MAZDA

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| 1395-68-676,9926-50-635 | 500.14369 | Push Type Retainer |
| 69293-12050 | 500.20534 | Door Lock Rod Clip |
| 69293-12060 | 500.20535 | Door Lock Rod Clip |
| 90467-09143 | 500.17988 | Push Type Retainer |
| 9924-90-512B | 500.14367 | Retainer |
| 9926-40-531B | 500.789006 | Insulation Retainer |
| 9926-40-531B | 500.18271 | Insulation Retainer |
| 9927-40-825 | 500.14269 | Door Panel Retainer |
| 9928-91-053 | 500.14298 | Releasable Cable Strap |
| 9991-00-501 | 500.14357 | Screw Grommet |
| 9991-00-503 | 500.14313 | Screw Grommet |
| 9991-00-601 | 500.14274 | Screw Grommet |
| B096-51-833 | 500.17632 | Push Type Retainer |
| BC1D-56-145 | 500.19315 | Mud Guard Push Type Retainer |
| FB01-5 | 500.16000 | Push Type Retainer |
| G031-58-762 | 500.18692 | Weatherstrip Retainer |
| G18K-51-SJ3 | 500.20932 | Panel Retainer |
| G350-68-AB1 | 500.18824 | Trim Panel Retainer |
| GA2A-58-762 | 500.19481 | Front & Rear Door and Hood Weatherstrip |
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| N304-13-356-A | 500.14697 | Push Type Retainer |
| UB39-45-919 | 500.20465 | Front & Rear Fender Push-Type Retainer |
| UB39-50-795 | 500.19747 | Stone Guard Push-Type Retainer |

MAZDA

RETAINERS



Push Type Retainer
Art. No. 500.19274
OEM #: 01553-09321

Material: Black Nylon
 Head Dia: 20 mm
 Stem Length: 9 mm
 Fits Into: 8mm Hole
 Nissan Maxima & 300ZX
 1994 - On
Qty: 25



Push-Type Retainer
Art. No. 500.14369
OEM #: 1395-68-676, 9926-50-635

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 6mm Hole
Qty: 50



Push-Type Retainer
Art. No. 500.17632
OEM #: B096-51-833

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
 Ford OEM #: MB-455-56143
Qty: 25



Push-Type Retainer
Art. No. 500.14697
OEM #: N304-13-356-A

Material: Black Nylon
 Head Dia: 14mm
 Stem Length: 11mm
 Fits Into: 7mm Hole
 GM OEM #: 94198687
 Honda OEM #: 90657-SA6-0030
Qty: 25



Retainer
Art. No. 500.14367
OEM #: 9924-90-512B

Material: Black Nylon
 Bottom Head Dia: 12mm
 Stem Dia: 5mm
 Stem Length: 12mm
Qty: 25



Push Type Retainer
Art. No. 500.16000
OEM #: FB01-56-964

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 Nissan OEM #: 63876-95596
 Honda OEM #: 90675-SB3-003
Qty: 25



Front & Rear Fender Push-Type Retainer
Art. No. 500.20465
OEM #: UB39-45-919

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 2000 - On
Qty: 25



Stone Guard Push-Type Retainer
Art. No. 500.19747
OEM #: UB39-50-795

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 10mm
 Fits Into: 8mm Hole
 MPV 1998-On
Qty: 10

MAZDA

RETAINERS



Push-Type Retainer
Art. No. 500.17988
OEM #: 90467-09143

Material: Black Nylon
 Head Dia: 19mm
 Stem Length: 26mm
 Fits Into: 9mm
Qty: 10



Mud Guard Push-Type Retainer
Art. No. 500.19315
OEM #: BC1D-56-145

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 Protege 1996-On
Qty: 15



Hood Insulation Retainer
Art. No. 500.789006
OEM #: 9926-40-531B

Material: Black Nylon
 Head Dia: 14mm
 Stem Dia: 6mm
 Stem Length: 15mm
Qty: 25
 Same as 500.18271



Weatherstrip Retainer
Art. No. 500.18692
OEM #: G031-58-762

Material: Natural Nylon
 Head Dia: 5mm x 15mm
 Stem Length: 10mm
 Fits Into: 5mm Hole
 Toyota OEM #: 67868-89101,
 6786789103
Qty: 50



Door Panel Retainer
Art. No. 500.14269
OEM #: 9927-40-825

Material: White Nylon
 Head Dia: Top 13mm
 Bottom 18mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
 Overall Length: 21mm
 Toyota OEM #: 67771-12010,
 6777-01010
 Isuzu OEM #: 8942264920
Qty: 25



Door Trim Panel Retainer with Sealer
Art. No. 500.20932
OEM #: G18K-51-SJ3

Material: White Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 14mm
 Stem Length: 14mm
 Stem Dia: 12mm
 Mazda 3, 5, 6, CX-7, Miata & Protege
 2001 - On
Qty: 25



Wheel Opening Moulding Retainer with Sealer
Art. No. 502.22510
OEM#: KD51-51-W24

Top Head Diameter: 15mm
 Bottom Head Diameter: 18.5mm
 Stem Diameter: 10.8mm
 Stem Length: 14mm
Qty: 25



Gray Nylon Wheel Arch Moulding Retainer
Art. No. 502.22512
OEM#: KD53-51-W24

Top Head Diameter: 14mm
 Bottom Head Diameter: 18.5mm
 Stem Diameter: 11mm
 Stem Length: 14mm
Qty: 25



Green Nylon Rocker Panel Moulding Retainer with Sealer
Art. No. 502.22511
OEM#: D10E-51-SJ3

Top Head Size: 13mm x 17mm
 Bottom Head Diameter: 18.5mm
 Stem Diameter: 11.7mm
 Stem Length: 12mm
Qty: 30



Bumper Cover & Fender Liner Push-Type Retainer
Art. No. 502.22515
OEM#: BGV4-56-145

Head Diameter: 20mm
 Stem Length: 14mm
 Fits into 8mm Hole
Qty: 25



Yellow Nylon Pillar, Scuff Plate & Trim Panel Retainer
Art. No. 502.22484
OEM#: E120-68-AB1; MR975267

Top Head Diameter: 13mm
 Middle Head Diameter: 16.5mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.3mm
 Stem Length: 13mm
 Overall Length: 20mm
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

MAZDA

SPECIALTY CLIPS/MOULDING CLIPS



Gray Nylon Stone Guard Moulding Clip with Sealer
Art. No. 502.22520
OEM#: KD53-51-SJ3A

Top Head Size: 10mm x 15mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 12mm
 Stem Length: 9mm
Qty: 25



White Nylon Instrument & Side Panel Clip
Art. No. 502.22483
OEM#: S47P-64-345; MQ907568

Width (Ear to Ear): 10.3mm
 Overall Height: 18.6mm
Qty: 25



Black Nylon Hood Release Cable Clip
Art. No. 502.22516
OEM#: D001-56-731

Holds 5mm Diameter Cable
 Stem Length: 9mm
 Fits into 6mm Hole
Qty: 25



Black Nylon Grille Emblem Clip
Art. No. 502.22517
OEM#: G46L-50-EB1

Head Size: 9mm x 22mm
 Stem Width: 9mm
 Stem Length: 13mm
Qty: 25



White Nylon Fender & Wheel Apron Moulding Clip with Sealer
Art. No. 502.22593
OEM#: : KD45-51-W24

Top Head Size: 14mm x 18mm
 Bottom Head Diameter: 18mm
 Stem Length: 12mm
 Stem Diameter: 11mm
Qty: 25



Gray Nylon Front Bumper Retainer Nut
Art. No. 502.22519
OEM#: C274-50-133

Screw Size: M4.8 (#10)
 Center of Hole to Edge: 11mm
 Panel Range: Up to 1mm
Qty: 25

Releasable Cable Strap (length 140mm, 5-1/2")
Art. No. 500.14298
OEM #: 9928-91-053

Material: Nylon
 Max bundle dia: 30mm
 Length: 140mm
 Fits Into: 7mm Hole
 Honda OEM #: 90676-SA0-0030
Qty: 25



MAZDA
GROMMETS


Screw Grommet
Art. No. 500.14313
OEM #: 9991-00-503

Material: Natural Nylon
 Length: 17mm
 Width: 17mm
 Fits Into: 8mm x 8.5mm
 Screw Size: #10
 Honda OEM #: 90666-671-0030
 Nissan OEM #: 68425-H5000
Qty: 50



Art. No. 500.14274
OEM #: 9991-00-601

Screw Grommet #8 Screw Size
Art. No. 500.14695
OEM #: H001-50-841

Material: Natural Nylon
 Dimensions: 13 x 13 mm
 Fits Into: Snaps into 8.5mm
 x 8.5mm Hole
 Screw Size: #10
 Honda OEM #: 75521-611-0000
 Toyota OEM #: 90189-06010
 Nissan OEM #: 9676-P0105
Qty: 100



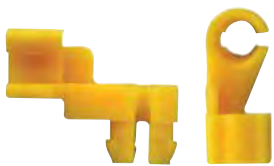
Trim Panel Retainer
Art. No. 500.18824
OEM #: G350-68-AB1

Material: White Nylon
 Bottom Head Dia: 15mm
 Top Head Dia: 13mm
 Stem Length: 9.5mm
 Stem Dia: 9mm
 Mazda 626, MX-6,
 Millenia, MX3, 929,
 Protege, MPV Ford Probe 1990 - On
Qty: 50



Screw Grommet
Art. No. 500.14357
OEM #: 9991-00-501

Material: Natural Nylon
 Width: 12mm
 Length: 12mm
 Snaps Into 8mm x 8mm Hole
 Screw Size: #10
Qty: 50

MAZDA
WINDOWS/DOORS/HOOD ACCESSORIES


Door Lock Rod Clip
Art. No. 500.20535
OEM #: 69293-12060

Material: Yellow Nylon
 Rod Size: 5mm
 Fits Into: 8.5mm Hole Left (Driver) Side
 Lexus ES250, 300 & RX300
 and Toyota Tacoma
 1990 - On
Qty: 15



Door Lock Rod Clip
Art. No. 500.20534
OEM #: 69293-12050

Material: Natural Nylon
 Rod Size: 5mm
 Fits Into: 8.5mm Hole
 Left (Driver) Side
 Lexus ES250, 300 & RX300
 and Toyota Tacoma
 1990 - On
Qty: 15



Hood Insulation Retainer
Art. No. 500.18271
OEM #: 9926-40-531B

Material: Black Nylon
 Bottom Head Dia: 14mm
 Stem Length: 15mm
 Stem Dia: 6mm
Qty: 25

**Note: Will be discontinued
 when stock is depleted**



**Front & Rear Door and Hood
 Weatherstrip**
Art. No. 500.19481
OEM #: GA2A-58-762

Material: Blue Nylon
 Bottom Head Dia: 5mm x 15mm
 Stem Length: 8mm
 Stem Dia: 6mm
 Mazda 626 & Millennia 1995 - On
Qty: 50

MERCEDES-BENZ

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| 000-994-09-14 | 500.13220 | U-Type Nut |
| 007-988-34-78 | 500.20879 | Door Trim Panel Retainer |
| 007-988-99-78 | 500.20879 | Door Trim Panel Retainer |
| 201-990-06-92 | 500.20638 | Push-Type Retainer |
| GJ21-50-049 | 500.17003 | Bumper Cover Retainer Front & Rear Bumpers |

MERCEDES-BENZ

RETAINERS



Gray Nylon Headliner Retainer
Art. No. 502.22498
OEM#: 008-988-09-78

Top Head Diameter: 13.5mm
 Middle Head Diameter: 13.5mm
 Bottom Head Diameter: 20mm
 Stem Diameter: 9.5mm
 Stem Length: 13mm
Qty: 25



White Nylon Lower Weatherstrip Retaining Clip
Art. No. 502.22504
OEM#: 009-988-03-78

Top Head Size: 12mm x 15mm
 Grommet Head Diameter: 11.3mm
 Grommet Stem Length: 13mm
 Overall Length: 21mm
Qty: 25



Door Trim Panel Retainer
Art. No. 500.20879
OEM #: 007-988-99-78, 007-988-34-78

Material: Green Nylon
 Bottom Head Dia: 17mm
 Top Head Dia: 13mm
 Stem Length: 14mm
 Stem Dia: 9mm
 Mercedes-Benz 1996 - On
Qty: 25



Push-Type Retainer
Art. No. 500.20638
OEM #: 201-990-06-92

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 14mm
 Fits Into: 8.5mm Hole
Qty: 25

MERCEDES-BENZ

RIVETS



Split-Type Rivet
Art. No. 502.20971
OEM #: 003-990-94-97

Material: Aluminum Rivet, Aluminum Mandrel
 Dia: 5/32" (4mm)
 Grip: 3/64" - 9/32" (1mm-7mm)
 Flange Dia: 5/16" (8mm)
Qty: 25

MERCEDES-BENZ
HARDWARE/BODY BOLTS/SCREWS


Art. No. 500.13220
OEM #: 000-994-09-14

Material: Yellow Zinc
 6.3mm (#14) Screw Size
 Panel Range: .7mm-1.5mm
 Center of Hole to Edge: 13mm
 Volvo OEM #: 946-418
 Opel OEM #: 20-76-175
Qty: 50

MERCEDES-BENZ
SPECIALTY CLIPS/RETAINERS/MOULDING CLIPS


Bumper Cover Retainer Front & Rear Bumpers
Art. No. 500.17003
OEM #: GJ21-50-049

Mazda & Ford 1988 - On
 Ford OEM #: F32Z-17C756-S
Qty: 25

LAND ROVER
RETAINERS


Black Nylon Tailgate Moulding Retainer
Art. No. 502.22485
OEM#: DCE100560

Base Size: 17.3mm x 16.3mm
 Stem Diameter: 11mm
 Stem Length: 15mm
 Overall Height: 18.5mm
Qty: 30

MITSUBISHI
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| MB-253964 | 500.17351 | Front & Rear Bumper Push-Type Retainer |
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| MR478262 | 500.20580 | Bumper Cover & Garnish Moulding Push-Type Retainer |
| MU481187 | 500.19323 | Hood Insulation Retainer |

MITSUBISHI
RETAINERS


Front & Rear Bumper Push-Type Retainer
Art. No. 500.17351
OEM #: MB-253964

Material: Black Nylon
 Head Dia: 17mm
 Stem Length: 10mm
 Fits Into: 7mm Hole
 Tredia 1988-83
Qty: 10



Rocker Panel Retainer
Art. No. 500.20571
OEM #: MR435918

Material: White Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 9mm
 Stem Length: 9mm
 Mitsubishi Montero 2001 - On
Qty: 15



Bumper Cover & Garnish Moulding Push-Type Retainer
Art. No. 500.20580* use with 500.20581
OEM #: MR478262

Material: Black Nylon
 Top Head Dia: 15mm
 Bottom Head Dia: 14mm
 Stem Length: 12mm
 Fits Into: 7mm Hole
 Sebring & Stratus and Mitsubishi Eclipse
 2000 - On
Qty: 15



Yellow Nylon Pillar, Scuff Plate & Trim Panel Retainer
Art. No. 502.22484
OEM#: E120-68-AB1; MR975267

Top Head Diameter: 13mm
 Middle Head Diameter: 16.5mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.3mm
 Stem Length: 13mm
 Overall Length: 20mm
Qty: 25



Black Nylon Hood Insulation Retainer
Art. No. 502.22589
OEM#: MU001282

Head Diameter: 26mm
 Stem Diameter: 10mm
 Stem Length: 10mm
 Fits into 9mm Hole
Qty: 25



Blue Nylon Rocker Moulding Retainer
Art. No. 502.22462
OEM#: MU000977

Top Head Diameter: 13mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.8mm
 Stem Length: 9mm
Qty: 25



Hood Insulation Retainer
Art. No. 500.19323
OEM #: MU481187

Material: Black Nylon
 Bottom Head Dia: 26mm
 Stem Length: 8mm
 Stem Dia: 10mm
 Mitsubishi Diamante 1993 - On
Qty: 15



White Nylon Interior Speaker Grille & Rocker Moulding Retainer
Art. No. 502.22513
OEM#: MU000573

Top Head Diameter: 12mm
 Bottom Head Diameter: 16mm
 Stem Diameter: 8mm
 Stem Length: 10mm
Qty: 25

MITSUBISHI
SPECIALTY CLIPS / MOULDING CLIPS


White Nylon Instrument & Side Panel Clip
Art. No. 502.22483
OEM#: S47P-64-345; MQ907568

Width (Ear to Ear): 10.3mm
 Overall Height: 18.6mm
Qty: 25

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| 01533-00401 | 500.14355 | Retaining Clip |
| 01553-00172 | 500.788001 | Retaining Clip |
| 01553-00545 | 500.17452 | Bumper Fascia Retainer |
| 01553-03101 | 500.17378 | Bumper & Fascia Attachments Push Type Retainer |
| 01553-06721 | 500.17347 | Front & Rear Bumper Cover Push-Type Retainer |
| 01553-07111 | 500.20669 | Trim Panel Retainer |
| 01553-09241 | 500.19246 | Bumper Push Type Retainer |
| 01553-09311 | 500.19684 | Weatherstrip Retainer |
| 01553-09321 | 500.19274 | Push Type Retainer |
| 01553-09611 | 500.20349 | Bumper Clip Push Type Retainer |
| 01553-10051 | 500.19905 | Push-Type Retainer |
| 10998-30880 | 500.14696 | Retainer |
| 11296-AG000 | 500.20953 | Front Bumper and Radiator Support Push-Type Retainer |
| 62228-51500 | 500.19147 | Front Bumper Retainer |
| 63844-01A00 | 500.16858 | Inner Fender Push-Type Retainer |
| 63848-40Y00 | 500.20613 | Front Bumper Push-Type Retainer |
| 63848-9E001 | 500.20327 | Bumper Fascia Push Type Retainer |
| 63854-01A00 | 500.17472 | Front Bumper Fascia Push-type Retainer |
| 63878-01E10 | 500.20348 | Push-Type Retainer |
| 65836-F5000 | 500.17237 | Hood Insulation Retainer |
| 65846-30F00 | 500.17237 | Hood Insulation Retainer |
| 65846-40F00 | 500.19468 | Hood Insulation Retainer |
| 66820-3S500-C1 | 500.20672 | Cowl Vent Retainer |
| 66824-01G00 | 500.16783 | Push Type Retainer |
| 68425-H5000 | 500.14313 | Screw Grommet |
| 76886-57A00 | 500.18265 | Body Side Moulding Push Type Retainer |
| 80875-85E00 | 500.18166 | Trim Panel Retainer |
| 80999-05N07 | 500.16784 | Push Type Retainer |
| 89427-98070 | 500.16775 | Trim Panel Retainer |
| 90467-09139 | 500.19416 | Retainer |
| 9676-P0105 | 500.14274 | Screw Grommet #10 Screw Size, White |
| 91503-5Z3-003 | 500.19233 | Push Type Retainer |
| N/A | 500.20961 | Moulding Clip |

NISSAN

RETAINERS



Push Type Retainer
Art. No. 500.19274
OEM #: 01553-09321

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 Nissan Maxima A3002X
 1994 - On
Qty: 25



Bumper Fascia Push-Type Retainer
Art. No. 500.20327
OEM #: 63848-9E001

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 22mm
 Fits Into: 9mm Hole
 Altima 1997 - On
Qty: 25



Push Type Retainer
Art. No. 500.16783
OEM #: 66824-01G00

Material: Black Nylon
 Head Dia: 12mm
 Stem Length: 8mm
 Fits Into: 6mm Hole
Qty: 25



Push Type Retainer
Art. No. 500.16784
OEM #: 80999-05N07

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 11mm
 Fits Into: 7mm Hole
 Toyota OEM #: 90467-07043
Qty: 50

NISSAN

RETAINERS



Push Type Retainer
Art. No. 500.14696
OEM #: 10998-30880

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 11mm
 Fits Into: 6mm Hole
 Isuzu OEM #: 8942981190
 Honda OEM #: 90684-SA5-0030
Qty: 50



Bumper Clip Push Type Retainer
Art. No. 500.20349
OEM #: 01553-09611

Material: Black Nylon
 Dia: 18mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
Qty: 15



Bumper Push Type Retainer
Art. No. 500.19246
OEM #: 01553-09241

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 15mm
 Fits Into: 10mm Hole
Qty: 25



Rivet Drive Type Front Bumper Cover & Wheel Housing
Art. No. 500.19416
OEM #: 90467-09139

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Honda, Mazda 626 & Toyota Corolla 1992 - On
Qty: 15



Body Side Moulding Push-Type Retainer
Art. No. 500.18265
OEM #: 76886-57A00

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 20mm
 Fits Into: 8mm Hole
Qty: 25



Front Bumper Push-Type Retainer
Art. No. 500.19233

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 13mm
 Fits Into: 10mm
 Acura OEM #: 91503-SZ5-003
 Honda OEM #: 91503-SZ3-003
Qty: 25



Trim Panel Retainer
Art. No. 500.16775
OEM #: 89427-98070

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 15mm
 Fits Into: 5mm Hole
 Honda OEM #: 90667-SA7-0030
Qty: 25



Hood Insulation Retainer
Art. No. 500.19468
OEM #: 65846-40F00

Bottom Head Dia: 28mm
 Stem Length: 10mm
 Stem Dia: 6mm
 Infiniti J30, M30 & Q45 1989 - On
Qty: 15



Front Bumper Fascia Push-type Retainer
Art. No. 500.17472
OEM #: 63854-01A00

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 20mm
 Fits Into: 8mm Hole
Qty: 25



Retaining Clip
Art. No. 500.788001
OEM #: 01553-00172

Material: Black Nylon
 Head Dia: 13mm
 Stem Length: 15mm
 Fits Into: 5mm Hole
 Panel Thick: 3mm
 Toyota OEM #: 90467-07050
Qty: 50



Trim Panel Retainer
Art. No. 500.18166
OEM #: 80875-85E00

Material: Black Nylon
 Head Dia: 10mm
 Stem Dia: 4mm
 Stem Length: 10mm
Qty: 25



Bumper & Fascia Attachments Push-Type Retainer
Art. No. 500.17378
OEM #: 01553-03101

Material: Black Nylon
 Head Dia: 22mm
 Stem Length: 14mm
 Fits Into: 11mm Hole
Qty: 15

NISSAN

RETAINERS



Bumper Fascia Retainer
Art. No. 500.17452
OEM #: 01553-00545

Material: Black Nylon
 Bottom Head Dia: 13mm
 Stem Length: 15mm
 Stem Dia: 5mm
 Nissan Sentra 1990 - On
Qty: 75



Push-Type Retainer
Art. No. 500.19905
OEM #: 01553-10051

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 8mm
 Fits Into: 8mm Hole
 Maxima 1999 - On
Qty: 25



**Front Bumper and
 Radiator Support
 Push-Type Retainer**
Art. No. 500.20953
OEM #: 11296-AG000

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 13mm
 Fits Into: 8mm Hole
 Infiniti FX 35/45 and Nissan Altima,
 Maxima & Quest 2002 - On
Qty: 25



Trim Panel Retainer
Art. No. 500.20669
OEM #: 01553-07111

Material: Black Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 9mm
 Stem Length: 15mm
Qty: 25



**Front & Rear Bumper Cover
 Push-Type Retainer**
Art. No. 500.17347
OEM #: 01553-06721

Material: Black Nylon
 Head Diameter: 20mm
 Stem Length: 11mm
 Fits Into: 8mm Hole
 Maxima & Infiniti 1990 - On
Qty: 40



**Front Bumper Push-
 Type Retainer**
Art. No. 500.20613
OEM #: 63848-40Y00

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 20mm
 Fits Into: 9mm Hole
 Frontier & Xterra 1998 - On
Qty: 30



**Inner Fender Push-
 Type Retainer**
Art. No. 500.16858
OEM #: 63844-01A00

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 18mm
 Fits Into: 8mm Hole
 Nissan 1980 - On
 Kia OEM #: MNA01-56-145;
 Mazda OEM #: NA01-56-145;
 Ford OEM #: MNA01-
 56145, NA01-56145
Qty: 75



Push-Type Retainer
Art. No. 500.20348
OEM #: 63878-01E10

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 22mm
 Fits Into: 8mm Hole
 Maxima 1994 - On
Qty: 15

NISSAN
SCREW GROMMETS


Clip
Art. No. 500.14313
OEM #: 68425-H5000

Material: Natural Nylon
 Length: 17mm
 Width: 17mm
 Screw Size: #10
 Fits Into: 8mm x 8.5mm
 Honda OEM #: 90666-671-0030
 Mazda OEM #: 9991-00-503
Qty: 25



Rocker Moulding Screw Grommet
Art. No. 500.20604
OEM #: 01281-00711

Material: Natural Nylon
 Head Dia: 20mm
 Stem Length: 15mm
 Screw Size: M4.2 (#8)
 Nissan & Infiniti 1995 - On
Qty: 25



Art. No. 500.14274
OEM #: 9676-P0105

Material: Natural Nylon
 Dimensions: 13 x 13mm
 Screw Size: #10
 Fits Into: Snaps into 8.5mm x 8.5mm Hole
 Honda OEM #: 75521-611-0000
 Toyota OEM #: 90189-06010
 Mazda OEM #: 9991-00-601
Qty: 100

NISSAN
SPECIALTY CLIPS/MOULDING CLIPS


Weatherstrip Retainer
Art. No. 500.19684
OEM #: 01553-09311

Bottom Head Dia: 7mm x 16mm
 Stem Dia: 6mm hole
 Stem Length: 12mm
 Nissan Altima & Sentra 1994 - On
Qty: 25



Retaining Clip
Art. No. 500.14355
OEM #: 01533-00401

Material: Black Nylon
 Bottom Head Dia: 11mm
 Stem Dia: 6mm
 Stem Length: 13mm
Qty: 50



Front Bumper Retainer
Art. No. 500.19147
OEM #: 62228-51500

300ZX 1992 - On
Qty: 10



Cowl Vent Retainer
Art. No. 500.20672
OEM #: 66820-3S500-C1

Material: White Nylon
 Bottom Head Dia: 16mm
 Top Head Dia: 13mm
 Stem Dia: 4mm
 Stem Length: 13mm
 Nissan Frontier & Xterra
 1998 - On
Qty: 25



Drip Moulding Clip with Sealer
Art. No. 500.20961

Material: White Nylon
 Top Width: 25mm
 Overall Height: 16mm
 Fits Into: 5mm Hole
 Infiniti M45, I30 & G35 2005 - On
 Nissan Altima, Maxima & 350Z 2002 - On
Qty: 15



Hood Insulation Retainer
Art. No. 500.17237
OEM #: 65836-F5000, 65846-30F00

Material: Black Nylon
 Bottom Head Dia: 38mm
 Stem Dia: 7mm
 Stem Length: 9mm
 Mercury Villager 1999 - On
 Nissan 1981 - On
Qty: 15

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Black Nylon Cowl Grille Clip
Art. No. 502.22476
OEM#: : 66820-4BA5A

Width: 13mm x 20mm
 Overall Height: 20mm
Qty: 50



Black Nylon Hood Release Cable Clip
Art. No. 502.22573
OEM#: 65625-8J000

Holds 6mm Diameter
 Cable Fits into 6mm Hole
Qty: 50



Zinc M5-.8 Specialty Insert
Art. No. 502.22480
OEM#: 01236-00051

Grip Range: .5mm - 1.5mm
 Head Diameter: 11mm
 Shoulder Size: 7mm x 7mm
 General Purpose
Qty: 15



Yellow Nylon Front & Rear Bumper Screw Grommet
Art. No. 502.22522
OEM#: 85099-1MA0A

Screw Size: M5.5 (#12)
 Top Head Size: 10mm x 10mm
 Bottom Head Size: 15mm x 16mm
 Stem Length: 9mm
Qty: 25



Green Nylon Rocker Panel Moulding Clip with Sealer
Art. No. 502.22523
OEM#: : 76882-1KA1A

Top Head Size: 10mm x 17mm
 Bottom Head Diameter: 18mm
 Stem Length: 12mm
 Fits into 8mm Hole
Qty: 25



White Nylon Lift Gate, Pillar & Quarter Panel Trim Retainer
Art. No. 502.22572
OEM#: 01553-0162U

Top Head Diameter: 13mm
 Middle Head Diameter: 16mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 10mm
 Stem Length: 14mm
 Overall Length: 21mm
Qty: 25



Natural Nylon Front Bumper Screw Grommet
Art. No. 502.22494
OEM#: 01281-01431

Screw Size: M5.5 (#12)
 Head Diameter: 14mm
 Stem Length: 17mm
 Overall Length: 20mm
Qty: 25



Gray Nylon Quarter Panel, Rear Light & Spoiler Grommet with Sealer
Art. No. 502.22440
OEM#: 26557-2U000

Screw Size: M6.3-1.81 (#14)
 Head Size: 15mm x 19mm
 Stem Length: 16mm
 Overall Length: 17.5mm
Qty: 25



White Nylon Headliner Retainer
Art. No. 502.22574
OEM#: 73998-3TA0A

Top Head Size: 19mm x 23mm
 Bottom Head Diameter: 17mm
 Stem Size: 8mm x 11mm
 Stem Length: 9mm
 Overall Length: 13mm
Qty: 25



Black Nylon Front Bumper Cover Retainer
Art. No. 502.22503
OEM#: 01553-0170U

Head Diameter: 18mm
 Stem Diameter: 8.5mm
 Stem Length: 19mm
Qty: 25



Gray Nylon Rear Bumper Cover Moulding Clip
Art. No. 502.22452
OEM#: 85284-AL510

Width: 20mm
 Length: 32mm
 Overall Height: 20.5mm
Qty: 10

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| 90467-07044 | 500.19128 | Quarter Panel Wheel Opening Moulding Push-Type Retainer |
| 90467-07050 | 500.788001 | Retaining Clip |
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| 90467-09093 | 500.17439 | Bumper Cover Push-Type Retainer |
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| 90467-09143 | 500.17988 | Push-Type Retainer |

TOYOTA/LEXUS

RETAINERS



Rocker Panel Push-Type Retainer
Art. No. 500.20196
OEM #: 90467-06133-CO

Material: Black Nylon
 Head Dia: 14mm
 Stem Length: 8mm
 Fits Into: 6mm Hole
 4-Runner 1998 - On
Qty: 25



Rear Bumper Cover Retainer
Push Type Retainer
Art. No. 500.18873
OEM #: 52161-16010

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 28mm
 Fits Into: 9mm Hole
 Toyota Tercel 1988 - On
Qty: 15



Rivet Drive Type Front Bumper
Cover & Wheel Housing
Art. No. 500.19416
OEM #: 90467-09139

Material: Black Nylon
 Head Dia: 18 mm
 Stem Length: 15mm
 Fits Into: 9mm Hole
 Honda, Mazda 626, Toyota
 Corolla 1992 - On
Qty: 15



Back Garnish Trim Panel
Push-Type Retainer
Art. No. 500.19490
OEM #: 90467-06150

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 8mm
 Fits Into: 6mm Hole
 Tacoma 1995 - On
Qty: 10

TOYOTA/LEXUS
RETAINERS


Push Type Retainer
Art. No. 500.16784
OEM #: 90467-07043

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 11mm
 Fits Into: 7mm Hole
 Nissan OEM #: 80999-05N07
Qty: 50



Front Fender Liner Push Type Retainer
Art. No. 500.18888
OEM #: 90467-07166

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 8mm
 Fits Into: 7mm Hole
 Toyota Tercel 1994 - On
Qty: 30



Hood Seal Retaining Clip
Art. No. 500.18297
OEM #: 90467-08004,90467-08011

Material: Black Nylon
 Bottom Head Dia: 13mm
 Stem Length: 11mm
 Stem Dia: 7.5mm
 Lexus, Toyota, Geo Prizm & Nova 1985 - On
 GM OEM #: 94842841, 94849113
Qty: 50



Push Retainer
Art. No. 500.7773

Material: Steel Nickel Plated
 Size: 1-1/2" strap
 Fits Into: 1/4" Hole
 Center of Hole To Center of Hole: 6-5/8"
 Overall Length: 3-1/8"
Qty: 25



Fender Liner Push Type Retainer
Art. No. 500.20335
OEM #: 53879-60010

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 7mm
 Fits Into: 7mm Hole
 Toyota Land Cruiser, RAV 4 1998 - On
Qty: 15



Garnish Moulding Retainer
Art. No. 500.20558
OEM #: 62217-13010

Material: White Nylon
 Bottom Head Dia: 15mm
 Top Head Dia: 13mm
 Stem Dia: 8.5mm x 9.5mm
 Stem Length: 11mm
 Lexus and Toyota Corolla, Matrix & 4 Runner 2003 - On
Qty: 25



Door Panel Retainer
Art. No. 500.14269
OEM #: 67771-12010, 6777-01010

Material: White Nylon
 Head Dia: Top 13mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
 Bottom: 18mm
 Mazda OEM #: 9927-40-825
 Isuzu OEM #: 8942264920
Qty: 25



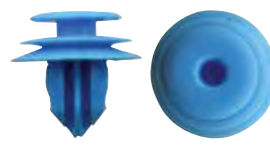
Retainer w/ Sealer
Art. No. 500.15695
OEM #: 62955-20020

Material: Nylon
 Head Dia: 15mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 Toyota Pick-Up Truck, Pontiac Vibe
Qty: 25



Bumper Cover Push Type Retainer
Art. No. 500.17206
OEM #: 90467-09145

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 12mm
 Fits Into: 9mm Hole
 Toyota Camry 1992 - On
Qty: 15



Garnish Moulding Retainer
Art. No. 500.20559
OEM #: 62217-13010

Material: Blue Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 9mm x 9mm
 Stem Length: 11mm
 Pontiac Vibe, Lexus and Toyota 2000 - On
 GM OEM #: 88970345
Qty: 25



Trim Panel Retainer Cowl Side & Garnish Center Pillar Retainer
Art. No. 500.18844
OEM #: 67771-06010, 67771-32090

Material: White Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 10mm
 Stem Length: 13mm
 Toyota Camry 1991 - On
Qty: 15



Door Trim Retainer
Art. No. 500.15709
OEM #: 67771-02030

Material: Natural Nylon
 Bottom Head Dia: 17.5mm
 Top Head Dia: 13mm
 Stem Dia: 9.5mm
 Stem Length: 13mm
 Toyota Corolla 1990 - On
Qty: 25

TOYOTA/LEXUS
RETAINERS


Fender Splash Shield Push-Type Retainer
Art. No. 500.20908
OEM #: 90467-07164

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 10mm
 Fits Into: 7mm Hole
 Toyota Camry, Echo, MR2 & Sienna
 1997 - On
Qty: 25



Rocker Moulding Push-Type Retainer
Art. No. 500.21123
OEM #: 75867-30120

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
 Lexus GS350, GS430, GS460 & LS460 and
 Toyota Camry 2007 - On
Qty: 15



Cowl Panel & Luggage Compartment Retainer
Art. No. 500.19552
OEM #: 90467-07146

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 9mm
 Fits Into: 7mm Hole
 Toyota Avalon, Camry, Celica & Solara
 1993 - On
Qty: 15



Front Bumper Fascia Push-Type Retainer
Art. No. 500.21103
OEM #: 90467-05090-B1

Material: Black Nylon
 Head Dia: 10mm
 Stem Length: 12mm
 Fits Into: 5mm Hole
 Toyota Corolla, Matrix & Scion 2008 - On
Qty: 10



Quarter Panel Wheel Opening Moulding Push-Type Retainer
Art. No. 500.19128
OEM #: 90467-07044

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 7mm Hole
 Toyota T-100 1992 - On
Qty: 25



Hood Insulation Retainer
Art. No. 500.18842
OEM #: 90467-09006

Material: Black Nylon
 Head Dia: 30mm
 Stem Length: 17mm
 Fits Into: 7mm Hole
 Toyota Avalon, Camry, Lexus
 1988 - On
Qty: 25



Retaining Clip
Art. No. 500.788001
OEM #: 90467-07050

Material: Black Nylon
 Head Dia: 13mm
 Stem Length: 15mm
 Fits Into: 5mm Hole
 Panel Thickness.: 3mm
 Nissan OEM #: 01553-00172
Qty: 50



Door Trim Panel Push-Type Retainer
Art. No. 500.19908
OEM #: 90467-07121

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 8mm
 Fits Into: 7mm Hole
 Toyota RAV4 1997 - On
Qty: 15



Front Fender Liner Push-Type Retainer
Art. No. 500.20869
OEM #: 90467-10183

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 7.5mm
 Fits Into: 7mm Hole
 Celica, Corolla, Matrix & Solara, Lexus and Pontiac Vibe 1999 - On
 GM OEM #: 88970767
Qty: 20



Push-Type Retainer
Art. No. 500.17162
OEM #: 90467-07041

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 13mm
 Fits Into: 6.3mm Hole
 Geo Metro & Tracker and Toyota 1989 - On
 GM OEM #: 96057846
Qty: 25



Rear Door Trim & Luggage Compartment Door Push-Type Retainer
Art. No. 500.19013
OEM #: 90467-07059-22

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 10mm
 Fits Into: 7mm Hole
 Toyota Camry & Celica 1990 - On
Qty: 25



Weatherstrip Retainer
Art. No. 500.19686
OEM #: 90467-05045-22

Material: Black Nylon
 Stem Dia: 5mm
 Stem Length: 6mm
 Bottom Head Dia: 12mm
 Toyota Solara 1998 - On
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

TOYOTA/LEXUS RETAINERS



Hood Insulation Retainer
Art. No. 500.19112
OEM #: 90467-09004

Material: Black Nylon
 Head Dia: 30mm
 Stem Length: 16mm
 Stem Dia: 8mm
 Toyota Tacoma 1995 - On
Qty: 25



Retaining Clip
Art. No. 500.14738
OEM #: 90467-09008

Material: Black Nylon
 Head Dia: 30mm
 Stem Length: 17mm
 Fits Into: 7mm Hole
 Panel Thickness: 6mm
Qty: 25



Hood Insulation Retainer
Art. No. 500.19113
OEM #: 90467-08124

Material: Black Nylon
 Bottom Head Dia: 25mm
 Stem Dia: 8mm
 Stem Length: 12mm
 Toyota Supra 1993 - On, Lexus 1994 - 89
Qty: 25



Front Bumper Push-Type Retainer
Art. No. 500.19219
OEM #: 90467-09096

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 27mm
 Fits Into: 9mm Hole
 Toyota Lexus LS400 1993-On,
 Celica & Supra 1989 - On
Qty: 10



Bumper Cover & Grille Push-Type Retainer
Art. No. 500.20931
OEM #: 52161-20010

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 31mm
 Fits Into: 9mm Hole
 Toyota 2000 - On
Qty: 25



Front Fender & Bumper Cover Pin Retainer
Art. No. 500.20757
OEM #: 47749-58010

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 25mm
 Use With Auveco 20758
 Lexus and Toyota 4 Runner
 Highlander, Sienna & Solara
 2000 - On
Qty: 10



Bumper Cover Push-Type Retainer
Art. No. 500.19739
OEM #: 90467-09127

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 26mm
 Fits Into: 9mm Hole
 Hole Size: 26mm
 Toyota Avalon, Camry,
 Corolla & Solara
 1998 - On
Qty: 25



Rocker Panel & Garnish Moulding Push-Type Retainer
Art. No. 500.20577
OEM #: 90467-07168

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 8mm
 Fits Into: 7mm Hole
 Pontiac Vibe 2003 - On
 Lexus & Toyota 2000 - On
 GM OEM #: 88970494, 88973676
Qty: 15

TOYOTA/LEXUS

RETAINERS



Door Panel & Rocker Moulding Retainer with Sealer
Art. No. 500.20473
OEM #: 67771-12070

Material: White Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 11mm
 Stem Length: 14mm
 Lexus SC300/400, Toyota Avalon & Corolla
 1992 - On
Qty: 15



Door Panel & Rocker Moulding Retainer
Art. No. 500.20575
OEM #: 67771-12080

Material: Yellow & White Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 10mm
 Stem Length: 13mm
 Toyota & Lexus 1998 - On
 Pontiac Vibe 2003 - On
 GM OEM #: 88970656
Qty: 15



Trim Panel Retainer Cowl Side & Garnish Center Pillar Retainer
Art. No. 500.19129
OEM #: 67771-30090

Material: Yellow Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 9.5mm
 Stem Length: 17mm
 Toyota Land Cruiser & 2WD Truck
 1991 - On
 GM OEM #: 95008221
Qty: 15



Weatherstrip Retainer
Art. No. 500.19749
OEM #: 67867-12150

Material: White Nylon
 Stem Length: 10mm
 Stem Dia: 6mm
 Bottom Head Dia: 5mm x 15mm
 Toyota Avalon 1995 - On
Qty: 25



Black Nylon Rocker Moulding Retainer
Art. No. 502.22457
OEM#: 76924-13020

Head Diameter: 25mm
 Stem Length: 11mm
 Fits into 14mm Hole
Qty: 50



Black Nylon Side Mud Guard Push-Type Retainer
Art. No. 502.22502
OEM#: 76923-52021

Head Diameter: 29mm
 Stem Length: 10mm
 Fits into 22mm Hole
Qty: 25



Black Nylon Rocker Moulding Retainer with Sealer
Art. No. 502.22570
OEM#: 90467-22015

Head Diameter: 47mm
 Stem Length: 35mm
 Fits into 22mm Hole
Qty: 20

TOYOTA/LEXUS RETAINERS



Push-Type Retainer
Art. No. 500.17988
OEM #: 90467-09143

Material: Black Nylon
 Head Dia: 19mm
 Stem Length: 26mm
 Fits Into: 9mm
Qty: 10



Push-Type Retainer
Art. No. 500.18270
OEM #: 90467-07117

Material: Black Nylon
 Head Dia: 17mm
 Stem Length: 9mm
 Fits Into: 7mm Hole
 Lexus 1990-On
Qty:10



Bumper Cover Push-Type Retainer
Art. No. 500.18939
OEM #: 90467-09101

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 23mm
 Fits Into: 9mm Hole
 ES300 1993-On
Qty: 25



Bumper Cover Push-Type Retainer
Art. No. 500.17439
OEM #: 90467-09093

Material: Black Nylon
 Head Dia: 15mm
 Stem Dia: 27mm
 Fits Into: 9mm Hole
Qty: 20



Black Nylon Trunk Side Trim Retainer
Art. No. 502.22473
OEM#: 90467-A0002-C0

Head Diameter: 16mm
 Stem Diameter: 8mm
 Stem Length: 16mm
Qty: 25



Blue Nylon Rocker Panel Retainer
Art. No. 502.22478
OEM#: 75867-52020

Top Head Diameter: 13mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.5mm
 Stem Length: 13mm
 Overall Length: 19mm
Qty: 25



Blue Nylon Door Trim Retainer with Sealer
Art. No. 502.22486
OEM#: 67771-26240

Top Head Diameter: 13mm
 Middle Head Diameter: 16mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.6mm
 Stem Length: 10mm
 Overall Length: 16.5mm
Qty: 25



Black Nylon Fender Seal Retainer
Art. No. 502.22598
OEM#: 90467-07208

Head Diameter: 16mm
 Stem Diameter: 8mm
 Stem Length: 16mm
 Fits Into 8mm Hole
Qty: 25



White Nylon Rocker Panel & Wheel Opening Moulding Retainer
Art. No. 502.22571
OEM#: 75867-68010

Top Head Diameter: 13mm
 Bottom Head Diameter: 18mm
 Stem Length: 14.5mm
 Stem Diameter: 9.5mm
Qty: 50



Black Nylon Fender Liner Push-Type Retainer
Art. No. 502.22439
OEM#: 90467-07215

Head Diameter: 20mm
 Stem Length: 10mm
 Fits into 7mm Hole
Qty: 50



White Nylon Door Scuff Plate Retainer
Art. No. 502.22479
OEM#: 51787-60070

Top Head Size: 12mm x 17mm
 Middle Head Diameter: 15mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 8.5mm
 Stem Length: 9mm
Qty: 25



White Nylon Lower Door Moulding Retainer with Sealer
Art. No. 502.22455
OEM#: 90467-A0032

Top Head Diameter: 10mm
 Bottom Head Diameter: 15mm
 Stem Diameter: 8.3mm x 8.3mm
 Stem Length: 10mm
Qty: 25

TOYOTA/LEXUS
RETAINERS


Weatherstrip Retainer
Art. No. 500.18692
OEM #: 67868-89101, 67867-89103

Material: Natural Nylon
 Head Dia: 5mm x 15mm
 Stem Length: 10mm
 Fits Into: 5mm Hole
 Toyota 4-Runner 1989-83, Mazda 1996 - On
 Ford
 Mazda OEM #: G031-58-762
Qty: 50



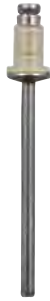
White Nylon Scuff Plate Retainer
Art. No. 502.22471
OEM#: 90467-A0007

Top Head Diameter: 13mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.3mm
 Stem Length: 11mm
Qty: 25

TOYOTA/LEXUS
SPECIALTY RIVETS


Rivet
Art. No. 500.20628
OEM #: 90269-04050

Material: Aluminum Rivet with Plastic Cap
 Steel Mandrel
 Dia: 1/8"
 Grip: 5/32" - 5/16"
 Flange Dia: 5/16"
 Lexus GS300, 400, 430 & SC430
 1998 - On
Qty: 25



"Peel-Type" & Specialty Rivets
Art. No. 500.20788
OEM #: 90269-04051

Material: Aluminum Rivet with Plastic Cap
 Steel Mandrel
 Dia: 1/8"
 Grip: 3/64" - 1/8" (1.2mm - 3.4mm)
 Flange Dia: 15/64" (6mm)
 Lexus 1998 - On
Qty: 25



Rivet
Art. No. 500.20627
OEM #: 90269-04053

Material: Aluminum Rivet (Black) with Plastic Cap
 Steel Mandrel (Black)
 Dia: 1/8"
 Grip: 3/64" - 3/16"
 Flange Dia: 5/16"
 Mouldings
 Toyota Land Cruiser 1998 - On
Qty: 25



Gas Filler Door Rivet
Art. No. 500.20834
OEM #: 90269-06013

Material: Aluminum Rivet with Plastic Cap
 Steel Mandrel
 Dia: 3/16"
 Grip: 1/16" - 1/4"
 Flange Dia: 9/16"
 Toyota Camry & Lexus IS300
 2001 - On
Qty: 15

TOYOTA/LEXUS
GROMMETS


Neon Yellow Nylon Headlamp Assembly Grommet
Art. No. 502.22566
OEM#: 90189-06238

Screw Size: M4.8 (#8)
 Head Diameter: 17mm
 Stem Length: 8mm
 Fits into 9mm x 9mm Hole
Qty: 25



Natural Nylon Rear Combination Tail Light Guide Grommet with Sealer
Art. No. 502.22488
OEM#: 81496-52020, 81496-0E020

Head Diameter: 16mm
 Stem Length: 14mm
 Overall Length: 15mm
Qty: 25



Screw Grommet
Art. No. 502.19783
OEM#: 90075-10801, 90189-06111

Material: White Nylon
 Head Dia: 13mm
 Stem Length: 9mm
 Fits Into: 11mm Hole
 Ford, Lexus & Toyota
 Ford OEM#: N811169-S, W705550-S300
Qty: 50



Fender Liner Screw Grommet
Art. No. 500.19756
OEM #: 90189-06214

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 18mm
 Screw Size: #12 (M5.5)
 Toyota Sienna, Tacoma & Tundra
 Pick-Up
 1999 - On
Qty: 25



Screw Grommet
Art. No. 500.14281
OEM #: 90189-04066

Material: White Nylon
 Head Dia: 14mm
 Stem Length: 10mm
 Fits Into: 7mm x 7mm Hole
 Screw Size: #6
 Honda OEM #: 90666-693-003
Qty: 25



Screw Grommet #8 Screw Size
Art. No. 500.14695
OEM #: 90189-06042

Material: White Nylon
 Head Dia: 16mm
 Stem Length: 17mm
 Fits Into: 8mm x 8mm Hole
 Honda OEM #: 90661-SC7-0030
 Nissan OEM #: 01651-00481
 Mazda OEM #: H001-50-841
 Mitsubishi OEM #: MS-480012
Qty: 50



Screw Grommet #10 Screw Size
Art. No. 500.14275
OEM #: 90189-06001

Material: White Nylon
 Head Dia: 18mm
 Stem Length: 17mm
 Fits Into: 8.5mm x 8.5mm Hole
 Nissan OEM #: 01281-00023;
 Mitsubishi OEM #: MB-098145
Qty: 50



Screw Grommet #10 Screw Size
Art. No. 500.19194
OEM#: 90189-06028

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 19mm
 Fits Into: 9mm x 9mm Hole
 Screw Size: #12
 GM OEM #: 94854203
Qty: 30



Screw Grommet #10 Screw Size
Art. No. 500.13932
OEM #: 90189-05013

Material: Natural Nylon
 Width: 12mm
 Length: 12mm
 Fits Into: 8mm x 9mm Hole
 Mitsubishi OEM #: MS-480002
Qty: 100



Art. No. 500.14274
OEM #: 90189-06010

Material: Natural Nylon
 Dimensions: 13mm x 13mm
 Fits Into: Snaps into 8.5mm x 8.5mm Hole
 Screw Size: #10
 Honda OEM #: 75521-611-0000
 Nissan OEM #: 9676-P0105
 Mazda OEM #: 9991-00-601
Qty: 75



Screw Grommet #10 Screw Size
Art. No. 500.14265
OEM #: 90189-06006

Material: Natural Nylon
 Head Dia: 17mm
 Fits Into: 9mm x 9mm Hole
Qty: 25



Screw Grommet #14 (1/4") or M6.3-1.81 screw size
Art. No. 500.7757
OEM #: 90189-06005

Material: White Nylon
 Head Dia: 18mm
 Stem Length: 16mm
 Fits Into: 8mm x 8mm Hole
Qty: 25

TOYOTA/LEXUS
GROMMETS


Fender Lining Screw Grommet
Art. No. 500.19721
OEM #: 90189-06157

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 22mm
 Fits Into: 8mm x 8mm Hole
 Screw Size: #12
 Toyota Avalon, Camry, Rav 4, Solara & Tacoma 1995 - On
Qty: 25



Hood & Fender Screw Grommet
Art. No. 500.20440
OEM #: 90189-06065

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 18mm
 Screw Size: M5.5 (#12)
 Fits Into: 9mm x 9mm Hole
 Toyota Camry & RAV 4 1999 - 95
Qty: 25



Fender Lining Screw Grommet
Art. No. 500.19742
OEM #: 90189-06104

Material: Natural Nylon
 Head Dia: 18mm
 Stem Length: 15mm
 Fits Into: 9mm Square Hole
 Screw Size: #12 (M5.5)
 Lexus IS300 & Toyota Avalon, Camry & Sienna 1997 - On
Qty: 15



Screw Anchor
Art. No. 500.7710
OEM #: 90189-04014

Material: Natural Nylon
 Dimensions: 10mm x 10mm
 Screw Size: #8
 Snaps Into: 7mm x 7mm Hole
Qty: 50



Screw Anchor
Art. No. 500.14271
OEM #: 90189-04011

Material: Natural Nylon
 Screw Size: #6
 Dimensions: 12mm x 12mm
 Fits Into: 7mm x 7.5mm Hole
Qty: 50



Screw Grommet
Art. No. 500.7758
OEM #: 90189-06006

Material: Natural Nylon
 Head Dia: 17mm
 Fits Into: 9mm x 9mm Hole
 Screw Size: #10
Qty: 25



Screw Grommet #8 Screw Size
Art. No. 500.14256
OEM #: 90189-04014

Material: Natural Nylon
 Width: 10mm
 Length: 10mm
 Fits Into: 7mm x 7mm Hole
Qty: 50

TOYOTA/LEXUS
SPECIALTY CLIPS/MOULDING CLIPS


Luggage Compartment Trim Panel Retainer
Art. No. 500.19312
OEM #: 90467-05096-22

Material: Black Nylon
 Bottom Head Dia: 16mm
 Stem Length: 13mm
 Stem Dia: 5mm
 Toyota Tercel & Paseo 1994 - On
Qty: 25



Bumper Strip Retainer
Art. No. 500.876226
OEM #: 90468-04030

Toyota 1984 - On
Qty: 25



Rocker Panel Clip
Art. No. 500.19842
OEM #: 78567-30110

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 22mm
 Fits Into: 9mm Hole
 Toyota Corolla 1997 - On
Qty: 15



Front Bumper Cushion Clip
Art. No. 500.845802
OEM #: 90183-03001

Toyota 1982 - On
Qty: 15

TOYOTA/LEXUS
SPECIALTY CLIPS/MOULDING CLIPS


Door Lower Moulding Clip
Art. No. 500.19120
OEM #: 75039-33060

Material: Brown & White Nylon
 ES300 1991-On
Qty: 10



Black Nylon Hood Release Cable Clamp Clip
Art. No. 502.22472
OEM#: 90467-06005

Head Size: 16mm x 21mm
 Holds 5mm Diameter Rod
 Stem Diameter: 12mm
 Stem Length: 9mm
Qty: 25



Rubber & Nylon Rear Door Rubber Bumper
Art. No. 502.22490
OEM#: 90541-09124

Rubber Diameter Top: 14mm
 Rubber Diameter Bottom: 17mm
 Overall Height: 16.5mm
Qty: 25



Black Nylon Hood Seal Retaining Clip
Art. No. 502.22497
OEM#: 65487-60010

Head Size: 5mm x 13mm
 Stem Diameter: 7mm
 Stem Length: 8mm
Qty: 25



Yellow Nylon Rocker Moulding Clip with Sealer
Art. No. 502.22525
OEM#: 75494-42010, 75395-42020

Top Head Size: 10.3mm x 16.5mm
 Bottom Head: 13.5mm x 17.5mm
 Stem Length: 19mm
Qty: 25



Black Nylon Fender Liner Retaining Clip
Art. No. 502.22487
OEM#: 90467-06192

Head Size: 14.5mm x 16mm
 Stem Diameter: 10.5mm
 Stem Length: 10mm
 Fits into 8mm Hole
Qty: 25



Black Nylon Front Fender Retaining Clip with Sealer
Art. No. 502.22495
OEM#: 90467-06205-C0

Head Diameter: 20mm
 Stem Diameter: 8mm
 Stem Length: 9mm
Qty: 25



Rocker Panel Moulding Clip with Sealer
Art. No. 500.17481
OEM #: 90467-11063

Material: White Nylon
 Head Dia: 18mm
 Stem Length: 9mm
 Toyota Previa 1990 - On
Qty: 25



Front Fender & Bumper Cover Clip
Art. No. 500.20758
OEM #: 53879-58010

Material: Black Nylon
 Width: 25mm
 Length: 34mm
 Lexus and Toyota 4 Runner, Highlander, Sienna & Solara 2000 - On
Qty: 5



Black Nylon Fender Liner Retaining Clip
Art. No. 502.22489
OEM#: 53879-30050

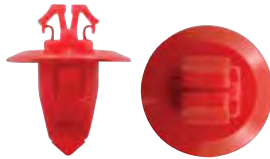
Width: 42mm
 Length: 29.5mm
Qty: 25



TOYOTA/LEXUS
SPECIALTY CLIPS/MOULDING CLIPS


Fender & Wheel Flare Moulding Clip
Art. No. 500.20429
OEM #: 90467-11100

Material: Yellow Nylon
 Head Dia: 17mm
 Stem Length: 17mm
 Toyota Highlander, Land Cruiser,
 Tacoma & Tundra 2000 - On
Qty: 20



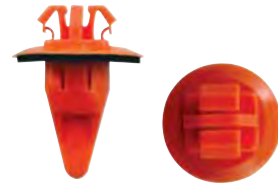
Fender Moulding Clip (Red)
Art. No. 500.20391
OEM #: 90904-67037

Material: Red Nylon
 Head Dia: 17mm
 Stem Length: 13mm
 Toyota Highlander, Land Cruiser,
 Tacoma & Tundra 2001 - On
Qty: 20



Fender Moulding Clip (Blue)
Art. No. 500.20390
OEM #: 90904-67036

Material: Blue Nylon
 Head Dia: 17mm
 Stem Length: 17mm
 Toyota Highlander, Land Cruiser,
 Tacoma & Tundra 2001 - On
Qty: 20



Wheel Flare Moulding Clip with Sealer
Art. No. 500.20688
OEM #: 75397-35010

Material: Orange Nylon
 Head Dia: 17mm
 Stem Length: 17mm
 4-Runner
 2003 - On
Qty: 10



Door Moulding Clip with Sealer
Art. No. 500.19797
OEM #: 90467-10077

Material: Butterscotch Nylon
 Head Dia: 15mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 Avalon & Corolla 1998 - On
Qty: 25



Rocker Moulding Clip with Sealer
Art. No. 500.20687
OEM #: 75495-35010

Material: Blue Nylon
 Head Dia: 17mm
 Stem Length: 10mm
 4-Runner 2003 - On
Qty: 10



Yellow Nylon Rocker & Quarter Vent Moulding Clip with Sealer
Art. No. 502.22456
OEM#: 62955-50010

Top Head Size: 8mm x 8mm
 Bottom Head Diameter: 15mm
 Stem Diameter: 8mm x 8mm
 Stem Length: 11mm
Qty: 25



Yellow Nylon Door Garnish Clip with Sealer
Art. No. 502.22454
OEM#: 76817-68010

Top Head Size: 10mm x 10mm
 Bottom Head Diameter: 16mm
 Stem Diameter: 9.5mm x 9.5mm
 Stem Length: 15mm
Qty: 25



Fender Flare and Bumper Clip
Art. No. 500.21016
OEM #: 75392-35200, 75392-04010

Material: Blue Nylon
 Head Dia: 13mm x 26mm
 Stem Length: 24mm
 Toyota Camry, FJ, RAV 4 & Tacoma
 2001 - On **Qty: 15**

TOYOTA/LEXUS
HARDWARE/BODY BOLTS/SCREWS


Extruded "U" Nuts
Art. No. 502.10052
OEM #: 1494258, 379831-S

Material: Phosphate
 Center of Hole To Edge: 27/32"
 Screw Size: 5/16"-18
 Panel Range: .025"-.150"
Qty: 50



**Nylon "U" Nut Fender/
 Wheel Housing Application**
Art. No. 500.7793
OEM #: 53879-1410-A,53879-4020

Material: Black Nylon
 Center of Hole To Edge: 11mm
 Screw Size: #10
 Length: 31mm
 Width: 20mm
 Panel Range: Up 1mm
Qty: 50



**Nylon "U" Nut Fender/Wheel
 Housing Applications**
Art. No. 502.14276
OEM #: 53879-22010

Material: Black Nylon
 Width: 20mm
 Length: 29mm
 Panel Range: Up to 1mm
 Center of Hole to Edge: 15mm
 Screw Size: #14 (1/4")
Qty: 15



**Bumper & Fender Apron
 Nylon "U" Nut**
Art. No. 500.20956
OEM #: 90467-05114

Material: Black Nylon
 Width: 20mm, Length: 36mm
 Center Of Hole to Edge: 14mm
 Panel Range: Up To 1mm
 Screw Size: M5.5 (#12)
 Lexus & Toyota
Qty: 10



**Nylon "U" Nut Fender/Wheel
 Housing Applications**
Art. No. 500.14750
**OEM #: 53879-14010-A, 53879-
 14020,53879-22030**

Width: 20mm
 Length: 31mm
 Panel Range: Up to 1mm
 Center of Hole To Edge: 11mm
 Screw Size: #10
 GM: 94841226;
 Mazda OEM #: LA01-56-135
Qty: 25

TOYOTA/LEXUS
HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES


Hood Insulation Retainer
Art. No. 500.19729
OEM #: 90467-09050

Material: Black Nylon
 Bottom Head Dia: 25mm
 Stem Length: 10mm
 Stem Dia: 9mm
 Lexus, Toyota Camry & Solara 1998 - On
Qty: 15



Metric Pushnut Bolt Retainers
For Threaded Fasteners
Art. No. 502.14980

Material: Zinc
 Thread Size: M6 - 1.0
 Dia: 17mm
Qty: 100



White Nylon Door Sill, Headliner, Liftgate Trim Cover, Pillars, Scuff Plate & Window Trim Retainer
Art. No. 502.22460
OEM#: 62489-0E010

Top Head Diameter: 13mm
 Middle Head Diameter: 16mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 11mm
 Stem Length: 14mm
 Overall Length: 20mm
Qty: 25

VOLKSWAGEN
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| OEM No. | Art. No. | Type |
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| 161-867-299-01C | 500.19195 | Push-Type Retainer |
| 380-868-243 | 500.20341 | Door Trim Panel Retainer |
| 823-867-299 | 500.20252 | Trim Panel Retainer |
| N900-845-01 | 500.17006 | Wheel Opening Moulding Attachment Specialty Rivet |
| N989022 | 502.11351 | Door Trim Panel Retainer |
| 179-813-883 | 502.12735 | Headlight Bezel Nut |

VW
SCREW GROMMETS


Headlight Bezel Nut
Art. No. 502.12735
OEM #: 179-813-883

Material: Nylon
 Screw Size: #6
 GM, Chrysler, VW 1982 - On
 GM OEM #: 1370853
 Chrysler OEM #: 6029501
Qty: 50

VW
SPECIALTY RIVETS


Wheel Opening Moulding Attachment Specialty Rivet
Art. No. 500.17006
OEM #: N900-845-01

Material: Aluminum Rivet (Black) Steel Mandrel
 Dia: 5/32"
 Grip: 1/4" - 3/8"
 Flange Dia. 15/32"
 VW Jetta, Rabbit & Golf
Qty: 100

VOLKSWAGEN/AUDI

RETAINERS



Black Nylon Carpet, Door Sill Plate, Floor Mat, Quarter Panel Trim, Scuff Plate & Wheel House Retainer
Art. No. 502.22447
OEM#: 6Q0-853-147

Top Head Size: 12mm x 14mm
 Overall Length: 21mm



Trim Panel Retainer
Art. No. 500.20252
OEM #: 823-867-299

Material: Black Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 14mm
 Stem Length: 14mm
 Stem Dia: 9mm
 VW Corrado, Eurovan, Jetta, Rabbit & Vanagon 1979 - On
Qty: 25



Black Nylon Interior Trim Panel & Cowl Cover Retainer
Art. No. 502.22449
OEM#: N90-911-301

Head Diameter: 20mm
 Stem Diameter: 8mm
 Stem Length: 16mm
Qty: 50



Push-Type Retainer
Art. No. 500.19195
OEM #: 161-867-299-01C

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
 VW Golf & Jetta 1997-93
Qty: 25



Door Trim Panel Retainer
Art. No. 502.11351
OEM #: N989022

Material: Black Nylon
 Head Dia: 15/16"
 Stem Length: 11/16"
 Ford, Chrysler, VW 1975 - On
 Ford OEM #: 385661-S
 Chrysler OEM #: 6003349, 6032363
Qty: 50



Door Trim Panel Retainer
Art. No. 500.20341
OEM #: 3B0-868-243

Material: Black Nylon
 Head Dia: 22mm
 Stem Length: 12mm
 Fits into: 10mm Hole
 Beetle, Golf, Jetta & Passat 1998 - On
Qty: 25

VOLVO
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| 9133417-7 | 500.19904 | Rocker Panel Retainer | 6-281 |
| 979878-6 | 500.19376 | Specialty Rivet | 6-282 |

VOLVO
RETAINERS


Bumper Cover Push-Type Retainer
Art. No. 500.19248
OEM #: 1268176-3

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 14mm
 Fits Into: 6mm Hole
 740, 760 1993 - On
Qty: 15



Rocker Panel Push-Type Retainer
Art. No. 500.19904
OEM #: 9133417-7

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
 850 Series 1994 - On
Qty: 25

VOLVO
SPECIALTY RIVETS


Specialty Rivet
Art. No. 500.19376
OEM #: 979878-6

Material: Aluminum Rivet & Aluminum
 Mandrel
 Black Polyethylene Coating
 Bumper & Wheel Housing
 Dia: 4mm
 Grip: 1/8"-11/32"
 Flange Dia: 15/32"
 Volvo 1993 - On
Qty: 25

MISCELLANEOUS

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| 11505329 | 502.12595 | Washer Nuts |
| 11508275 | 502.15330 | Metric Free Spinning Washer Nuts |
| 25601491 | 502.18174 | Radiator Air Side Baffle & Door Trim Panel Retainer |
| 445429 | 502.11292 | U & "J" Type Nut |
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| 4637277 | 502.20175 | Moulding Fastener - Universal |
| 4689929 | 502.2818 | Moulding Fastener - Universal |
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| | 502.11455 | PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point |
| | 502.10652 | PH Oval Head Sems® Flush Washer Tapping Screws |
| | 502.10653 | PH Oval Head Sems® Flush Washer Tapping Screws |
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| | 502.12259 | Metric Pushnut Bolt Retainer for Threaded Fasteners |
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| | 502.13755 | Blind Nylon Rivet |
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| | 502.9886 | Door and Window Crank Handle Retaining Clip |

SPECIALTY CLIPS/RETAINERS/MOULDING CLIPS



Hog Ring Upholstery Clip
Art. No. 502.7595

Wire Dia: .080
Qty: 500



Trim Panel Retainer
Art. No. 502.19250

Material: White Nylon
Bottom Head Dia: 11/16"
Stem Length: 13/16"
Stem Dia: 5/16"
Qty: 30



Trim Panel Retainer
Art. No. 502.19373
OEM #: N8071545

Material: Zuca Granite (Light Grey Nylon)
Ford 1991 - On
Qty: 50

MISCELLANEOUS

SPECIALTY CLIPS/RETAINERS/MOULDING CLIPS



Moulding Fastener
Art. No. 502.20175
OEM #: 4637277, 4730773

Plate Length: 1-5/8"
 Plate Width: 11/16"
 Screw Size: #10-24 x 3/4"
Qty: 25



Radiator Air Side Baffle & Door Trim Panel Retainer
Art. No. 502.18174
OEM #: 25601491

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Length: 13/16"
 Stem Dia: 5/16"
 Buick LeSabre, Olds Delta 88 Royale
 1992 - On
Qty: 75



Moulding Fastener
Art. No. 502.2818
OEM #: 4689929, 4778814

Plate Length: 3/4"
 Plate Width: 5/16"
 Screw Size: #10-24 x 3/4" Bolt
Qty: 10

HARDWARE/BODY BOLTS/SCREWS



PH Washer Head
Art. No. 502.2805

Material: Zinc
 Washer O.D.: 3.8"
 Screw Size: #8 x 7/16"
Qty: 100



PH Round Washer Head.
Art. No. 502.2806

Material: Chrome
 Length: 5/8"
 Washer O.D.: 13/32"
 Screw Size: #8 x 5/8"
Qty: 100



PH Oval Head Tapping Screws
Art. No. 502.10164

Screw Size: #8 x 3/4"
 Head: #6
Qty: 100



PH Oval Head Sems® Flush Washer Tapping Screws
Art. No. 502.10653

Screw Size: #8 x 11/16"
 Head: #6
Qty: 100



M4.8-2.12 x 20mm PH Truss Head Tapping Screw
Art. No. 502.20455

Material: Black Phosphate
 Screw Size: M4.8 - 1.12 x 20mm (#10 x 25/32")
 14mm Head O.D.
 Imports
Qty: 50



Hex Head Sems® w/Teks Point
Art. No. 502.15775

Material: Phosphate
 Screw Size: M4.6-1.41 x 20mm
 Washer O.D: 12mm
 Hex: 7mm
Qty: 50



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11454

Washer Type: Countersunk
 Screw Size: #8 x 5/8"
Qty: 100



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11455

Washer Type: Countersunk
 Screw Size: #8 x 3/4"
Qty: 100

MISCELLANEOUS
HARDWARE/BODY BOLTS/SCREWS


PH Oval Head Flush Washer Tapping Screw
Art. No. 502.12957

Material: Black Phosphate
 Head Dia: 1/2"
 Screw Size: #8 x 1"
Qty: 100



PH Oval Head Flush Washer Tapping Screws
Art. No. 502.10654

Material: Black Finish
 Screw Size: #8 x 1-1/4"
 Head: 6mm
 Screw Size: #8
 Length: 20mm
Qty: 100



PH Oval Head Tapping Screws
Art. No. 502.10166

Screw Size: #8 x 1"
 Head: #6
Qty: 100



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11451

Washer Type: Countersunk
 Screw Size: #8 x 1"
Qty: 50



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11456

Washer Type: Countersunk
 Screw Size: #8 x 1"
Qty: 50



Super Teks® - Hex Washer Head #3 Teks® Point
Art. No. 502.11914

Screw Size: #14 x 1"
Qty: 50



PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
Art. No. 502.12216

Material: Black E-Coat
 Screw Size: #8 x 1"
 Washer Head Dia: 13/32"
Qty: 100



PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
Art. No. 502.12215

Material: Black E-Coat
 Screw Size: #8 x 3/4"
 Washer Head Dia: 13/32"
Qty: 100



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11457

Washer Type: Countersunk
 Screw Size: #8 x 1-1/4"
Qty: 50



PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
Art. No. 502.12217

Material: Black E-Coat
 Screw Size: #8 x 1-1/4"
 Washer Head Dia: 13/32"
Qty: 100



PH Flat Top Washer Head Tapping Screws
Art. No. 502.12953

Material: Black E-Coat
 Screw Size: #10 x 3/4"
 Washer Dia: 15/32"
Qty: 50

MISCELLANEOUS

HARDWARE/BODY BOLTS/SCREWS



PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
Art. No. 502.12213

Material: Black E-Coat
 Screw Size: #8 x 1/2"
 Washer Head Dia: 13/32"
Qty: 100



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11449

Washer Type: Countersunk
 Screw Size: #8 x 5/8"
Qty: 100



PH Oval Head Sems® Flush Washer Tapping Screws
Art. No. 502.10652

Screw Size: #8 x 5/8"
 Head: #6
Qty: 100



PH Pan Head Sems® Tapping Screws
Art. No. 502.12820

Screw Size: #8 x 3/4"
 Washer Dia: 1/2"
Qty: 50



PH Flat Top Washer Head Tapping Screws
Art. No. 502.12954

Material: Black E-Coat
 Screw Size: #10 x 1"
 Washer Dia: 15/32"
Qty: 50



PH Flat Top Washer Head Tapping Screws
Art. No. 502.12955

Material: Black E-Coat
 Screw Size: #10 x 1-1/4"
 Washer Dia: 15/32"
Qty: 50



PH Oval Washer Head
Art. No. 502.16997

Material: Black E-Coat
 Screw Size: #8 x 3/8"
 Washer Head Outer Head Dia: 3/8"
Qty: 100



PH Round Washer Head With Teks® Point
Art. No. 502.17650

Material: Phosphate
 Screw Size: #8 x 3/4"
 Washer Head Outer Head Dia: 7/16"
Qty: 100



PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
Art. No. 502.12218

Material: Black E-Coat
 Screw Size: #8 x 1-1/2"
 Washer Head Dia: 13/32"
Qty: 100



PH Round Washer Head with Teks® Point Tapping Screw
Art. No. 502.19778

Material: Zinc
 Screw Size: #8 x 1-1/4"
 Washer Head O.D: 7/16"
Qty: 50



Hexagon Washer Head Tapping Screws
Art. No. 502.2980

Material: Zinc
 Screw Size: 5/16 x 1-1/4"
 Hex Size: 7/16"
Qty: 25



Hexagon Washer Head Thread Cutting Screws - Type "F"
Art. No. 502.11295

Material: Bright Zinc Chromate
 Screw Size: 3/8"-16 x 1"
 Hex: 9/16"
Qty: 50

MISCELLANEOUS
HARDWARE/BODY BOLTS/SCREWS


Hexagon Washer Head Tapping Screws
Art. No. 502.2974

Material: Zinc
 Screw Size: #14 x 1"
 Hex Size: 3/8"
Qty: 50



Hexagon Washer Head Tapping Screws
Art. No. 502.2978

Material: Zinc
 Screw Size: 5/16 x 3/4"
 Hex Size: 7/16"
Qty: 50



Hexagon Washer Head Tapping Screws
Art. No. 502.2979

Material: Zinc
 Screw Size: 5/16 x 1"
 Hex Size: 7/16"
Qty: 50



Super Tek's® - Hex Washer Head #3 Tek's® Point
Art. No. 502.9620

Material: Zinc
 Screw Size: #14 x 3/4"
 Hex Size: 3/8"
Qty: 100



Hexagon Washer Head Thread Cutting Screws - Type "F"
Art. No. 502.8443

Material: Bright Zinc Chromate
 Screw Size: 5/16-18 x 1"
 Hex Size: 1/2"
Qty: 100



Hexagon Head Sems® Tapping Screws
Art. No. 502.2989

Material: Bright Zinc Chromate
 Screw Size: 14 x 1"
 Hex Size: 7/16"
 Washer O.D: 21/32"
Qty: 50



Indented Hex Head Tapping Screws
Art. No. 502.5330

Material: Bright Zinc Chromate
 Screw Size: 3/8 x 1"
 Hex Size: 9/16"
Qty: 25



Hexagon Washer Head Tapping Screws
Art. No. 502.2968

Material: Zinc
 Screw Size: #12 x 3/4"
 Hex Size: 5/16"
Qty: 100



Hexagon Washer Head Thread Cutting Screws
Art. No. 502.2981

Material: Zinc
 Screw Size: 5/16 x 1-1/2"
 Hex Size: 7/16"
Qty: 25



Hexagon Washer Head Thread Cutting Screws - Type "F"
Art. No. 502.5784

Material: Bright Zinc Chromate
 Screw Size: 1/4-20 x 3/4"
 Hex Size: 3/8"
Qty: 100



Teks® Self-Drilling Self-Tapping Screw, Hex Washer Head
Art. No. 502.9615

Material: Zinc
 Screw Size: 10 x 3/4"
 Hex Size: 5/16"
Qty: 100



PH Flat Top Washer Head Tapping Screws
Art. No. 502.19798

Material: Black Oxide
 Screw Size: #8 x 2"
 Washer Head O.D: 13/32"
Qty: 50

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

MISCELLANEOUS
HARDWARE/BODY BOLTS/SCREWS


PH Truss Head
Art. No. 500.19170

Material: Black Phosphate
Screw Size: M6.3-1.81 x 16mm
Head O.D: 15mm
Japanese Imports
Qty: 50



PH Hex Head Sems®
Art. No. 500.20556

Material: Black Zinc
Screw Size: M6.3-1.81 x 20mm
Washer O.D: 16mm
Hex: 10mm
Qty: 100



Hexagon Washer Head Thread
Cutting Screws - Type "F"
Art. No. 502.5774

Material: Bright Zinc Chromate
Screw Size: 10-24 x 1/2"
Hex Size: 5/16"
Qty: 100



PH Oval Head Tapping Screws
Art. No. 502.2730

Material: Chrome
Screw Size: #10 x 1"
Head: #8
Qty: 100

HARDWARE/U-NUTS/PUSHNUTS


Flat Push-On Retainer for
Non-Threaded Fasteners, Plated
Art. No. 502.8863

Material: Zinc
Stud: 1/8"
Washer O.D.: 3/8 O.D.
Qty: 100



Flat Push-On Retainer for
Non-Threaded Fasteners, Plated
Art. No. 502.8864

Material: Zinc
Stud: 5/32"
Washer O.D.: 7/16"
Qty: 100



Pushnut Bolt Retainers for
Threaded Fasteners
Art. No. 502.10086

Material: Zinc
Bolt Dia: 1/4"
Washer O.D.: 1/2"
Qty: 100



Thread Cutting Nuts
Art. No. 502.2896

Material: Zinc
Stud: 3/16"
Washer O.D.: 5/8"
Hex: 3/8"
Qty: 100



Pushnut Bolt Retainers for
Threaded Fasteners
Art. No. 502.10087

Material: Zinc
Bolt Dia: 5/16"
Washer O.D.: 5/8"
Qty: 100



Flat Push-On Retainer for
Non-Threaded Fasteners, Plated
Art. No. 502.8865

Material: Zinc
Stud: 3/16"
Washer O.D.: 7/16"
Qty: 100



Pushnut Bolt Retainers for
Threaded Fasteners
Art. No. 502.9297

Material: Zinc
Bolt Dia: 3/8"
Washer O.D.: 25/32"
Qty: 50



Metric Pushnut Bolt Retainers
Art. No. 502.12125

Material: Zinc
Thread Size: M8-1.25
Dia: 16mm
Qty: 100



Metric Pushnut Bolt Retainer for
Threaded Fasteners
Art. No. 502.12127

Material: Zinc
Stud: M12-1.75
Washer O.D.: 21mm
Qty: 100



Thread Cutting Nuts
Art. No. 502.2895

Material: Zinc
Stud: 1/8"
Washer O.D.: 17/32"
Hex: 5/16"
Qty: 100



Metric Push-On Retainers
Art. No. 502.12119

Material: Zinc
Stud Size: 4mm
Dia: 11mm
Qty: 100



Metric Pushnut Bolt Retainers
Art. No. 502.12122

Material: Zinc
Thread Size: M5 - 0.8
Dia: 11mm
Qty: 100

MISCELLANEOUS
HARDWARE/U-NUTS/PUSHNUTS


Pushnut Bolt Retainers for Threaded Fasteners
Art. No. 502.9299

Material: Zinc
Bolt Dia: 1/2"
Washer O.D.: 15/16"
Qty: 50



Metric Pushnut Bolt Retainer for Threaded Fasteners
Art. No. 502.12123

Material: Zinc
Stud: M6-1.0
Washer O.D.: 13mm
Qty: 100



Metric Pushnut Bolt Retainer for Threaded Fasteners
Art. No. 502.12259

Material: Zinc
Stud: M8-1.25
Washer O.D.: 24mm
Qty: 75



Thread Cutting Nuts
Art. No. 502.10733

Material: Zinc
Stud: 5/16"
Washer O.D.: 7/8"
Hex: 1/2"
Qty: 50



Thread Cutting Nuts
Art. No. 502.3405

Material: Zinc
Stud: 1/4"
Washer O.D.: 11/16"
Hex: 7/16"
Qty: 100



Thread Cutting Nuts
Art. No. 502.3404

Material: Zinc
Stud: 3/16"
Washer O.D.: 1/2"
Hex: 3/8"
Qty: 100



Thread Cutting Nuts
Art. No. 502.3403

Material: Zinc
Stud Size: 1/8"
Hex: 5/16"
Washer Dia: 7/16"
Qty: 100



Thread Cutting Nuts
Art. No. 502.2897

Material: Zinc
Stud: 1/4"
Washer O.D.: 19/32"
Hex: 7/16"
Qty: 100



Metric Pushnut Bolt Retainers For Threaded Fasteners
Art. No. 502.12260

Material: Dacromet
Thread Size: M10 - 1.50
Dia: 24mm
Qty: 100



#10 Screw Size Spring Type "U" Nuts
Art. No. 502.15752

Material: Phosphate
Panel Range: .025"-.150"
Center Of Hole To Edge: 9/16"
Qty: 50



Spring Type "U" Nuts
Art. No. 502.10067

Material: Phosphate
Screw Size: #14
Panel Range: .025"-.125"
Center Of Hole To Edge: 3/8"
Qty: 50



"U" & "J" Type Nut
Art. No. 502.11292
OEM #: 445429, 9422552

Material: Phosphate
Screw Size: #8
Panel Range: .045"-.062"
Center Of Hole To Edge: 3/8"
Qty: 50



"U" & "J" Type Nut
Art. No. 502.10666

Material: Phosphate
Screw Size: #8
Panel Range: .025"-.035"
Center Of Hole To Edge: 1 1/32"
Qty: 100



Spring Type U-Nut
Art. No. 502.10064

Material: Phosphate
Screw Size: #6
Panel Range: .025"-.125"
Center Of Hole To Edge: 3/8"
Qty: 50



"U" & "J" Type Nuts
Art. No. 502.2422

Material: Phosphate
Screw Size: #10
Panel Range: .025"-.064"
Center Of Hole To Edge: 3/8"
Qty: 50



"U" & "J" Nuts
Art. No. 500.13216

Material: Zinc & Yellow
Screw Size: 4.8mm
Panel Range: .9mm-2mm
Center of Hole to Edge: 8mm
Qty: 100

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

MISCELLANEOUS

HARDWARE/U-NUTS/PUSHNUTS



Spring Type U-Nut
Art. No. 502.10065

Material: Phosphate
Screw Size: #8
Panel Range: .025"-.125"
Center Of Hole To Edge: 3/8"
Qty: 100



"U" & "J" Type Nuts
Art. No. 502.11429

Material: Phosphate
Screw Size: #10
Panel Range: 0.15"-.060"
Center Of Hole To Edge: 15/32"
Qty: 50



"U" & "J" Nuts
Art. No. 502.13225

Material: Zinc
Screw size: 4.2mm
Panel Range: .5mm-2.5mm
Center of Hole to Edge: 8mm
Qty: 50



"U" & "J" Type Nuts
Art. No. 502.3770

Material: Phosphate
Screw Size: #10
Panel Range: .030"-.037"
Center Of Hole To Edge: 3/8"
Qty: 100



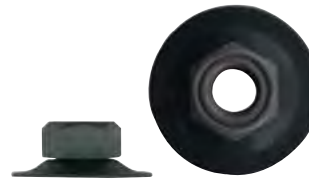
"U" & "J" Type
Art. No. 502.5197

Material: Phosphate
Machine Screw Size: #10-24
Panel Range: .045"-.062"
Center Of Hole To Edge: 9/16"
Qty: 50



Well Nuts
Art. No. 502.17586

Material: Neoprene with Captive Brass
Thread: #10-32
Head Dia: .750
Overall Length: .703
Shank Length: .625
Shank Dia: .375
Head Thickness: .078
Hole Size: 3/8"
Grip Range: .030 - .227
Qty: 30



Free Spinning Washer Nuts
Art. No. 502.15347
OEM #: 45334, 6023204, 6025004

Material: Phosphate
Thread Size: 1/4"-20
Washer Head Dia: 7/8"
Hex Size: 7/16"
Height: 5/16"
Qty: 50



Metric Free Spinning Washer Nuts
Art. No. 502.12595
GM OEM #: 11505329, 11503752, VWN90100001

Material: Phosphate
Thread Size: M6 - 1.0
Washer Dia: 16mm
Hex Size: 10mm
Height: 7mm
Qty: 50



Free Spinning Washer Nuts
Art. No. 502.15350
OEM #: 6025007

Material: Phosphate
Thread Size: 5/16"-18
Washer Head Dia: 3/4"
Hex Size: 1/2"
Height: 3/8"
Qty: 50



Metric Free Spinning Washer Nuts
Art. No. 502.19216
OEM #: 6100047

Material: Phosphate
Thread Size: M6-1.0
Washer O.D: 14mm
Hex Size: 10mm
Height: 8mm
Qty: 50



Metric Free Spinning Washer Nuts
Art. No. 502.19309

Material: Black Oxide
Thread Size: .M5-.8
Flange O.D: 11.5mm
Hex Size: 8mm
Height: 5mm
Qty: 100



Metric Free Spinning Washer Nuts
Art. No. 502.15330
OEM #: 11508275

Material: Zinc
Thread Size: M6-1.0
Washer Head Dia: 19mm
Hex Size: 10mm
Height: 8mm
Qty: 50

MISCELLANEOUS
HARDWARE/U-NUTS/PUSHNUTS


Washer Type Metric Self-Threading Nuts
Art. No. 502.19548

Material: Zinc
Stud Size: 6mm
Hex Width: 11mm
Washer Dia: 15mm
Qty: 50



Mirror/luggage rack Fastener Well Nut
Art. No. 502.16242

Material: Neoprene w/ Captive Brass Nut
Head Dia: .500"
Length: .554
Hole: 3/8
Panel Thickness: .015-.150
Qty: 25



Washer Lock Nuts
Art. No. 502.2562

Material: Zinc plated
Thread Size: 1/4"-20
Hex Width: 7/16"
O.D: 13/16"
Qty: 100



Washer Lock Nuts
Art. No. 502.2557

Material: Zinc plated
Thread Size: 10-24
Hex Width: 3/8"
O.D: 1/2"
Qty: 100



SAE Washer
Art. No. 502.3985

Material: Zinc
Bolt Size: #10 (3/16")
I.D: 7/32"
O.D: 1/2"
Thickness: 1/16"
Qty: 100



SAE Washer
Art. No. 502.3984

Material: Zinc
Bolt Size: #6 (1/8")
I.D: 5/32"
O.D: 3/8"
Thickness: 3/64"
Qty: 100



Steel Rivet Washers
Art. No. 502.16791

Material: Zinc
For 1/8" Dia.
O.D.: 1/2"
Qty: 100



Steel Rivet Washers
Art. No. 502.16792

Material: Zinc
For 3/16" Dia.
O.D.: 15/32"
Qty: 100



Metric Hex Flange Nuts
Art. No. 502.11645

OEM #: 11501850
Material: Phosphate
Thread Size: M10-1.5
Flange Dia: 21mm
Hex Size: 15mm
Height: 10mm
Qty: 50



Jack Nuts
Art. No. 502.13016

Thread Size: .438
Head Dia: .625
Cap Thickness: .073
Overall Length: .731
Grip Range: 1/64" - 3/16"
Required Hole Dia: .434-.450
Maximum Spread: .890
Qty: 25

HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES



Door Weatherstrip Retainer
Art. No. 502.19368
OEM #: 10283414, 10405030)

Material: Natural Nylon
 Bottom Head Dia: 5mm x 15mm
 Stem Dia: 5mm hole
 Stem Length: 9mm
Qty: 25



**Door and Window Crank
 Handle
 Retaining Clip**
Art. No. 502.9886

Qty: 100

NYLON RIVETS



Blind Nylon Rivet
Art. No. 502.13755
OEM #: 6500898

Material: Black
 Dia: 13/64"
 Panel Range: 15/64"-25/64"
Qty: 50



Blind Nylon Rivet
Art. No. 502.18502

Material: Black
 Hole Dia: 1/4"
 Panel Range: 5/32"-1/4"
Qty: 100

SPECIALTY RIVETS



**Side Door Lock Attachment
 "Peel-Type" Rivet**
Art. No. 502.19414
OEM #: W525170-S417

Material: Aluminum Rivet (Black),
 Steel Mandrel (Zinc)
 Dia: 3/16"
 Grip: 1/32"-1/4"
 Flange Dia: 1/2"
Qty: 25



Closed End Rivet
Art. No. 502.17410

Material: Black Aluminum Rivet/Black
 Aluminum
 Mandrel
 Dia: 3/16"
 Flange Dia: 3/8"
 Rivet length excl. Flange: 11/16"
 Grip Range: 3/8"-1/2"
Qty: 25

MISCELLANEOUS
HARDWARE SHIMS


Shim
Art. No. 502.20448

Material: Zinc
O.D: 15/16"
Slot: 3/8"
Thickness: 1/16"
Qty: 50



Shim
Art. No. 502.20449

Material: Zinc
O.D: 15/16"
Slot: 3/8"
Thickness: 1/8"
Qty: 50



Shim
Art. No. 502.3155

Material: Zinc
Size: 1-1/4" x 1-1/8"
Slot: 3/8"
Thickness: 1/16"
Qty: 50



Shim
Art. No. 502.3156

Material: Zinc
Size: 1-1/4" x 1-1/8"
Slot: 3/8"
Thickness: 1/8"
Qty: 100



Shim
Art. No. 502.2452

Material: Zinc
1-3/4" x 1-1/4"
Slot: 1/2"
Thickness: 1/16"
Qty: 50



Shim
Art. No. 502.2453

Material: Zinc
1-3/4" x 1-1/4"
Slot: 1/2"
Thickness: 1/8"
Qty: 50



Shim
Art. No. 502.2999

Material: Zinc
Size: 2" x 1-1/2"
Slot: 5/8"
Thickness: 1/8"
Qty: 50



Shim
Art. No. 502.3000

Material: Zinc
Size: 2" x 1-1/2"
Slot: 3/4"
Thickness: 1/8"
Qty: 50

HEX HEAD DRAIN PLUGS

For domestic cars and trucks, used on oil pan drains.



G.M. Vehicles
Art. No. 801.4
M12 x 1.75 x 26mm



Standard
Art. No. 801.45
1/2"-20 x 9/16"



Regular Oversized
Art. No. 801.451
M14 x 1.5 x 14mm



Double Oversized
Art. No. 801.452
M14 x 1.5 x 14mm



Triple Oversized
Art. No. 801.453
M14 x 1.5 x 14mm



Art. No. 243.14.15
M14 x 1.5 x 16mm



Art. No. 243.16308
M14 x 1.5 x 11mm



Art. No. 243.18024
M14 x 1.25 x 16mm



Art. No. 243.18374
M12 x 1.75 x 25mm



Art. No. 243.19279
M12 x 1.5 x 20mm



Art. No. 243.19318
M10 x 1.5 x 9mm



Art. No. 243.19365
1/2"-20 x 43/64"



Art. No. 243.19588
M12 x 1.25 x 17mm



Art. No. 243.19589
M12 x 1.5 x 12mm



Art. No. 464.14678
M14 x 1.5 x 20mm



Art. No. 464.18664
M12 x 1.75 x 24.5mm



Art. No. 464.18023
M12 x 1.75 x 19mm



Art. No. 464.18663
M12 x 1.75 x 25mm

ASSORTMENTS



Art. No. 965.460801

Drain Plug & Washer Assortment

Contents (269 Pieces):

12 assorted washers and 12 assorted drain plugs

DRAIN GASKET ASSORTMENT



Art. No. 964.464000 - 110 pcs.

| Art. No. | Description | Qty. |
|------------|---|------|
| 462.016.22 | SEAL WASHER DIN 7603A CU - ASB FREE - M16 x 22MM x 2MM | 10 |
| 463.14.20 | SEAL WASHER DIN 7603A ALU - ASB FREE - M14 x 20MM x 1.5MM | |
| 464.012242 | SEAL WASHER TOYOTA DIN 7603 FIB - M12 x 24MM x 2MM | |
| 464.11422 | OIL PLUG WASHER HONDA - M14 x 1.5MM x 22MM | 20 |
| 464.16026 | OIL PLUG GASKET GM STEEL+RUB - 1/2" x 1" x 1/4" | 25 |
| 464.18665 | OIL DRAIN PLUG REPL GASKET - 11MM x 21MM | 10 |
| 464.19630 | OIL PLUG GASKET RUBBER - 11MM x 25MM x 7MM | 25 |

PREMIUM DRAIN GASKET ASSORTMENT



Art. No. 965.464001 - 171 pcs.

| Art. No. | Description | Qty. |
|------------|---|------|
| 243.16308 | DRAIN PLUG BLT HEX FLNG ZN MF - M14 x 1.5MM x 11MM | 5 |
| 243.18374 | DRAIN PLUG BLT+RUB GASKET FORD ZN - M12 x 1.75MM x 25MM | |
| 243.19279 | DRAIN PLUG BLT+RUB GASKET FORD/CHRYSLER ZN - M14 x 1.5MM x 20MM | |
| 243.19588 | DRAIN PLUG BLT+GASKET HEX NISSAN ZN - M12 x 1.25MM x 17MM | |
| 243.19589 | DRAIN PLUG BLT+GASKET BMW/MERCEDES ZN - M12 x 1.5MM x 12MM | |
| 243.14.15 | DRAIN PLUG BLT FORD HEX ZN MF - M14 x 1.5MM x 16MM | 10 |
| 460.14.22 | SEAL WASHER DIN 7603A CU - M14 x 22MM x 1.5MM | |
| 462.014.20 | SEAL WASHER DIN 7603A CU - ASB FREE - M14 x 20MM x 2MM | |
| 462.016.20 | SEAL WASHER DIN 7603A CU - ASB FREE - M16 x 20MM x 2MM | |
| 462.016.22 | SEAL WASHER DIN 7603A CU - ASB FREE - M16 x 22MM x 2MM | |
| 463.14.20 | SEAL WASHER DIN 7603A ALU - M14 x 20MM x 1.5MM | |
| 464.012242 | SEAL WASHER TOYOTA DIN 7603 ALU - M12 x 24MM x 2MM | |
| 464.018282 | SEAL WASHER TOYOTA DIN 7603 ALU - M18 x 28MM x 2MM | |
| 464.11422 | OIL PLUG WASHER HONDA - M14 x 1.5MM x 22MM | |
| 464.16026 | OIL PLUG GASKET GM STEEL+RUB - 1/2" x 1" x 1/4" | |
| 464.18663 | DRAIN PLUG GM - M12 x 1.75MM x 25MM | 5 |
| 464.18665 | OIL DRAIN PLUG REPL GASKET - 11MM x 21MM | 10 |
| 464.19630 | OIL PLUG GASKET RUBBER - 11MM x 25MM x 7MM | |
| 464.20454 | OIL DRAIN PLUG GASKET BMW/MERC COPPER - 14MM ID x 20MM OD | 6 |
| 464.8277 | OIL DRAIN PLUG GASKET NYL - 1/2" ID x 3/4" x 3/32" | 10 |
| 801.4 | DRAIN PLUG GM - 12MM | 5 |
| 801.45 | DRAIN & FILL PLUG - 1/2" STD | |

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

METRIC AND STANDARD LICENSE PLATE HARDWARE



Universal
Art. No. 140.14473 - P. Qty. 50
 M6-1.0 x 16mm
 14mm (9/16") washer head O.D.



Universal
Art. No. 140.15170 - P. Qty. 25
 #14 x 1/2", Thumb screw.
 Total length 1-1/8".



Ford
Art. No. 140.16421/140.16421.BK
P. Qty. 50/250
 Slotted, Hex washer head screw
 #14 (1/4) x 5/8" - Black E-coat
 5/8 washer head O.D., 5/16" Hex



Universal
Art. No. 140.7140/140.7140.BK
P. Qty. 100/500
 PH indented hex head/washer screw,
 M6-1.0 x 20mm 18.8 SS



Universal
Art. No. 140.17980 - P. Qty. 50
 Yellow Zinc Plated, M6-1.81 x 16mm
 (1/4-14 x 5/8"), PH Hex Washer Head.
 13mm (1/2") washer head O.D.
 10mm Hex



BMW
Art. No. 140.18156 - P. Qty. 50
 Yellow Zinc Plated, PH Wafer Head
 M4.8 - 1.59 x 16mm (#10 x 5/8")
 10mm (3/8") Head O.D.



Universal
Art. No. 140.18769 - P. Qty. 100
 M6-1.0 x 20 mm, PH Pan Head Screw
 Black E-Coat
 12mm (15/32") Head O.D.



GM
Art. No. 140.19777 - P. Qty. 50
 Dacromet 320, M6.3-1.81 x 16mm
 (#14 x 5/8"). Duo drive truss head
 license screw, 14mm head O.D.



Chrysler
Art. No. 140.6000 - P. Qty. 100
 Nylon, license plate nut #14
 (1/4") screw size
 Use with 140.7010 screw or 140.7060



Universal
Art. No. 140.7010 - P. Qty. 50
 Zinc-Plated, Slotted round
 washer head screw
 1/4" x 5/8" - 9/16" washer head O.D.



Universal
Art. No. 140.7020 - P. Qty. 100
 Zinc Plated, Slotted truss head screw
 #14 x 3/4" - 9/16 Head O.D.



GM
Art. No. 140.7030 - P. Qty. 100
 Zinc Plated, Slotted truss washer head screw
 #10 x 5/8" - 1/2" washer head O.D.



Honda, Geo Prism, Toyota
Art. No. 140.7040/140.7040.BK
P. Qty. 100/250
 Yellow zinc, PH hex washer head screw
 M6 - 1.81 x 20mm (1/4" x 3/4")
 12mm washer head O.D.
 10mm Hex
 Honda 1990 - on



Ford Contour & Mercury Mystique
1995 - on
Art. No. 140.7050 - P. Qty. 100
 Zinc & Yellow Dichromate,
 PH pan washer head,
 M5 - 0.8 x 12mm
 12.7mm washer head O.D.



Universal
Art. No. 140.7060 - P. Qty. 100
 1/4" x 3/4" Truss PH Type 'A', 18-8
 Stainless Steel, use with License
 Plate Nut Art. No. 140.6000



Universal
Art. No. 140.7070 - P. Qty. 100
 1/4 x 3/4" Hex Washer Head Slot Type 'A',
 18-8 Stainless Steel, use with License
 Plate Nut Art. No. 140.6000



Nissan
Art. No. 140.7075 - P. Qty. 100
 Black Phosphate, PH truss head screw
 M4.8 - 1.61 x 15mm (#10 x 19/32)
 14mm (9/16) Head O.D.

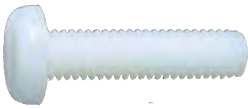


Universal
Art. No. 140.7150/140.7150.BK
P. Qty. 100/500
 PH indented hex/washer screw,
 M6.3 x 19mm 18.8 SS



Universal
Art. No. 210.46 - P. Qty. 100
 M6-1.0 x 20 mm, Zinc-Plated Steel
 License Plate Screw With Plastic Washer,
 metal washer & Metal Hex Nut

METRIC AND STANDARD LICENSE PLATE HARDWARE



Universal
Art. No. 210.911 - P. Qty. 100
 M6-1.0 x 25 mm, Slotted Pan Head Screw, Natural Nylon



Toyota/Universal
Art. No. 210.78/210.78.BK
P. Qty. 50/250
 M6-1.0 x 20 mm, Pan Slot Screw with Washer, White Nylon, & Hex Nut, Metal
 Toyota Canada O.E.M. No. 00999-00001



Universal
Art. No. 210.922/210.922.BK
P. Qty. 100/250
 M6-1.0 x 20 mm
 Slotted Pan Head Nylon Screw



Hyundai
Art. No. 210.930 - P. Qty. 100
 M6-1.0 x 25 mm, Pan Head Slot License Plate Screw washer
 O.D. 19 mm, Black Nylon



Universal
Art. No. 210.92 - P. Qty. 100
Art. No. 210.921 (Screw Only) P. Qty. 100
 M6-1.0 x 25 mm, Slotted Pan Head Screw & Hex Nut, Black Nylon



VW, Audi
Art. No. 140.70601 - P. Qty. 100
 #10 x 5/8 Flat Head PH SMS, License Plate Screw, 18.8



VW, Audi
Art. No. 140.70603 - P. Qty. 100
 #10 x 3/8 Truss Head PH SMS License Plate Screw, 18.8



VW, Audi
Art. No. 140.70604 - P. Qty. 100
 #10 x 1/2 Truss Head PH SMS License Plate Screw, 18.8



VW, Audi
Art. No. 140.70605 - P. Qty. 100
 #12 x 3/4 Truss Head PH SMS License Plate Screw, 18.8
 Screw head O.D. 1/2"



Mercedes Benz
Art. No. 140.70606 - P. Qty. 100
 #12 x 1 Truss Head PH SMS License Plate Screw, 18.8

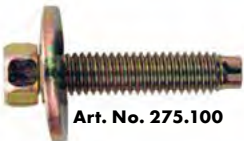


Chrysler, Honda, AMC
Art. No. 140.16826 - P. Qty. 50
 M6-1.0 x 20 mm, Slotted Hex Washer Head License Plate Screw, Zinc
 Chrysler O.E.M. No. 34201287
 AMC O.E.M. No. 8934201287



Universal
Art. No. 210.90/210.90.BK
P. Qty. 50/250
 M6-1.0 x 20 mm, Black Nylon Pan Slot Screw, With Nylon Washer & Metal Hex Nut

METRIC SPECIALTY BOLTS - NORTH AMERICAN VEHICLES



Art. No. 275.100



Art. No. 275.101



Art. No. 275.102



Art. No. 275.103



Art. No. 275.104



Art. No. 275.105



Art. No. 275.110



Art. No. 275.107



Art. No. 275.108



Art. No. 275.201



Art. No. 275.115



Art. No. 275.200



Art. No. 275.220



Art. No. 275.205



Art. No. 275.210



Art. No. 275.280

METRIC SPECIALTY BOLTS - NORTH AMERICAN VEHICLES



Art. No. 275.305



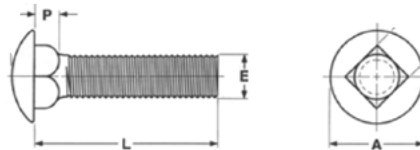
Art. No. 275.320



Art. No. 275.300

| O.E.M. No. | Description | Dia. (mm) | Thread Pitch | Length (mm) | Hex Dia. (mm) | Washer O.D. (mm) | Art. No. | P. Qty. |
|-----------------------------------|---|-----------|--------------|-------------|---------------|------------------|----------------|---------|
| Ford & GM (N606677-S36) | Yellow Zinc Dichromate Hex Head Sems Bolt With Dog Point - Class 9.8 | 6 | 1.00 | 28 | 8 | 19 | 275.100 | 25 |
| GM (11503834) | Phosphate Hex Head Sems Bolt - Class 9.8 | 6 | 1.00 | 25 | 10 | 17 | 275.101 | 50 |
| GM (11503982) | Phosphate Hex Head Sems Bolt - Class 9.8 | 6 | 1.00 | 25 | 10 | 24 | 275.102 | 50 |
| GM (11502790) | Zinc Hex Head Sems Bolt - Class 9.8 | 6.3 | 1.00 | 25 | 10 | 17 | 275.103 | 25 |
| GM (11500971) | Zinc Organic Hex Washer Head Bolt - Class 9.8 | 8 | 1.25 | 30 | 13 | 17 | 275.104 | 25 |
| GM (11504570) | Phosphate Hex Head Sems Bolt - Class 9.8 | 6 | 1.00 | 20 | 10 | 17 | 275.105 | 25 |
| GM | Phosphate Hex Washer Head Bolt - Class 9.8 | 8 | 1.25 | 25 | 13 | 17 | 275.107 | 25 |
| GM (362029) | Phosphate Hex Washer Head Bolt with Serrations under the Head & Dog Point | 8 | 1.25 | 16 | 13 | 18 | 275.108 | 25 |
| Ford (N606676-S36) | Yellow Zinc Dichromate Hex Head Sems Bolt with Dog Point - Class 9.8 | 6 | 1.00 | 22.5 | 8 | 19 | 275.110 | 25 |
| Ford (N606690-S2) | Phosphate Hex Head Sems Bolt with Dog Point - Class 9.8 | 8 | 1.25 | 33 | 10 | 22 | 275.115 | 25 |
| GM (11508930) | Black Fluorocarbon Hex Head Sems Bolt - Class 9.8 | 6 | 1.00 | 16 | 10 | 17 | 275.200 | 25 |
| GM (11504493) | Black Polyseal Hex Head Sems Bolt - Class 9.8 | 6 | 1.00 | 25 | 10 | 24 | 275.201 | 25 |
| GM (11503800) | Black Polyseal Hex Washer Head Bolt - Class 9.8 | 6 | 1.00 | 20 | 10 | 13 | 275.205 | 25 |
| GM (11502605, 11502624, 11509511) | Phosphate Hex Washer Head Bolt - Class 9.8 | 8 | 1.25 | 20 | 13 | 17 | 275.210 | 25 |
| GM (11503825) | Phosphate Hex Head Sems Bolt - Class 9.8 | 6 | 1.00 | 30 | 10 | 24 | 275.220 | 25 |
| - | Phosphate Hex Head Sems Bolt - Class 9.8 | 8 | 1.25 | 20 | 13 | 24 | 275.280 | 25 |
| GM (11504982) | Phosphate Hex Washer Head Bolt - Class 9.8 | 8 | 1.25 | 35 | 13 | 24 | 275.300 | 25 |
| - | Phosphate Hex Head Sems - Class 9.8 | 10 | 1.50 | 30 | 15 | 29 | 275.305 | 25 |
| GM (11504056, 11513801) | Phosphate Hex Washer Head Sems | 4.2 | 1.41 | 20 | 7 | 12 | 275.320 | 25 |

STANDARD CAPPED HEAD BUMPER BOLTS



Stainless Steel 18.8

| Head Diameter A | 7/8 | 29/32 |
|-------------------|------|-------|
| Shoulder Length P | 3/32 | 5/32 |
| Application | GM | GM |

| No. | Dia in inches. (e) | Length in inches (l) | Art. No. | P. Qty. |
|-----|--------------------|----------------------|---------------|---------|
| 1 | 3/8-16 | 1 | 235.12 | 10 |
| 2 | 7/16-14 | 1-3/8 | 235.13 | 10 |

HARDWARE / U-NUTS / SCREWS



Hex Washer Head Screw
Art. No. 502.22537
OEM#: W704874-S439

Zinc Organic
 M4.8-1.59 x 16mm
 Special Hi-Lo Thread
 Washer Diameter: 12.5mm
 Hex: 7mm
Qty: 25



Hex Washer Head Tapping Screw
Art. No. 502.22549
OEM#: W704875-S439

Zinc Organic
 M4.2-1.41 x 19mm
 Hex: 7mm
 Washer Diameter: 12.5mm
Qty: 25



Magni-554 Silver Metric Extruded U-Type Nut
Art. No. 502.22539
OEM#: 6105242-AA

Screw Size: M6-1.0
 Center of Hole to Edge: 13mm
 Panel Range: 0.5mm - 4.00mm
Qty: 25



Air Duct & Rear Bumper Bracket Nut
Art. No. 502.22491
OEM#: 11547582

Zinc Organic
 Thread Size: M6-1.0
 Head Size: 8mm x 18mm
 Overall Height: 11mm
Qty: 25



Zinc Organic Metric Extruded U-Nut
Art. No. 502.22578
OEM#: 6509799-AA

Screw Size: M4.8-1.6 (#10)
 Panel Range: .61mm - 3.8mm
 (.024" - .149")
 Center of Hole to Edge:
 11.5mm (.452")
Qty: 25



Zinc Organic Metric Extruded U-Nut
Art. No. 502.22581
OEM#: 11611321

Screw Size: M6-1.0
 Panel Range: .70mm - 2.0mm
 Center of Hole to Edge: 14mm
Qty: 20



Zinc Organic Metric Extruded U-Nut
Art. No. 502.22579
OEM#: W520822-S439;
6510185-AA, 6101956,
6503694

Screw Size: M6-1.0
 Panel Range: .8mm - 4.0mm
 (.030" - .160")
 Center of Hole to Edge: 13.5mm
 (17/32")
Qty: 25



Zinc Organic Metric Extruded U-Nut
Art. No. 502.22582
OEM#: 11548579

Screw Size: M4.2-1.41 (#8)
 Panel Range: 2.0mm - 3.0mm
 (.078" - .118")
 Center of Hole to Edge: 9.5mm (3/8")
Qty: 25



Round Washer Head Pozidrive Tapping Screw
Art. No. 502.22550
OEM#: 11609457

Black Zinc
 M4.2-1.41 x 20mm
 Head Diameter: 11mm
 Tail Lamp Assembly
Qty: 25



Black Zinc Hex Head Sems® Body Bolt
Art. No. 502.22536
OEM#: 11589031

M6-1.0 x 20mm
 Washer Diameter: 24mm
 Hex: 10mm / Class 9.8
 Front Bumper Support, Fender Liner,
 Grille & Headlamp Adjusting
Qty: 20



HONDA BODY CLIP ASSORTMENT



Art. No. 965.500100 - 360 pcs.

| Art. No. | Description | Qty. |
|------------|--|------|
| 500.17379 | HONDA - FENDER SPLASH SHIELD PUSH TYPE RET - 9MM HOLE | 25 |
| 500.18114 | HONDA - HOOD INSULATION RET CLIP - 6MM HOLE | |
| 500.18877 | HONDA - WEATHERSTRIP RET - 6MM HOLE | |
| 500.19118 | HONDA - PUSH TYPE RET FRONT FENDER - 8MM HOLE | |
| 500.19233 | ACURA/HONDA - FRONT BUMPER PUSH TYPE RET - 10MM HOLE | |
| 500.19239 | ACURA/HONDA - FRONT FENDER PUSH TYPE RET - 8MM HOLE | 15 |
| 500.19311 | HONDA - PUSH TYPE RET BLACK '92-96 - 6MM HOLE | |
| 500.19453 | HONDA ODYSSEY - MOULDING RET - 8MM HOLE | 25 |
| 500.19682 | HONDA - SEAL RETAINER CLIP - 6MM HOLE | |
| 500.20247 | HONDA/MITSUB - FENDER/BUMPER RET. '98 - 9MM HOLE | 15 |
| 500.20259 | HONDA - SPLASH SHIELD '86+ | 25 |
| 500.20564 | HONDA - BUMPER RET BLACK - 20MM x 18MM | 15 |
| 500.20608 | HONDA - ELEMENT GRILL MOUNTING RET - 10MM | 25 |
| 500.20954 | FENDER APRON SCREW GROMMET #8 - 4.2MM | |
| 500.21173 | ACURA - BUMPER SPLASH SHIELD PUSH TYPE RET - 10MM HOLE | 15 |
| 500.896715 | HONDA - RET CLIP - 13MM x 15MM | 25 |

TOYOTA BODY CLIP ASSORTMENT



Art. No. 965.500200 - 290 pcs.

| Art. No. | Description | Qty. |
|-----------|---|------|
| 500.15695 | TOYOTA - RETAINER WITH SEALER - 8MM HOLE | 15 |
| 500.17162 | PUSH RETAINER - 15MM D x 13MM STEM x 6.3MM HOLE | |
| 500.18844 | TOYOTA - TRIM PANEL RETAINER - 8MM HOLE | |
| 500.18873 | TOYOTA - REAR BUMPER PUSH TYPE RET - 9MM HOLE | |
| 500.18888 | TOYOTA - FENDER LINER PUSH TYPE RET - 7MM HOLE | |
| 500.19128 | TOYOTA - WHEEL OPEN MOULDING RET - 7MM HOLE | |
| 500.19194 | TOYOTA - FENDER LINER SCREW GROMMET #12 - 9MM HOLE | |
| 500.19721 | TOYOTA - FENDER LINING SCREW GROMMET - 8MM HOLE | |
| 500.19729 | TOYOTA - HOOD INSULATION RET - 7MM HOLE | |
| 500.19749 | TOYOTA - WEATHERSTRIP RETAINER - 6MM HOLE | |
| 500.19756 | TOYOTA - FENDER LINER SCREW GROMMET | |
| 500.19908 | TOYOTA - DOOR TRIM PANEL PUSH TYPE RET - 7MM HOLE | |
| 500.20440 | HOOD/FENDER SCREW GROMMET - 5.5MM | |
| 500.20687 | MOULDING CLIP W/SEALER, BLUE - 17MM HEAD | |
| 500.20688 | WHEEL FLARE MOULDING CLIP W/SEALER, ORANGE - 17MM | |
| 500.20757 | TOYOTA - FRONT FENDER & BUMPER COVER PIN RET, BLACK - 15MM HEAD | 10 |
| 500.20908 | TOYOTA - FENDER SPLASH SHIELD PUSH TYPE RET - 20MM HEAD | 15 |
| 500.20931 | TOYOTA - BUMPER COVER & GRILLE PUSH TYPE RET - 18MM HEAD | |
| 500.21103 | TOYOTA - FRONT BUMPER FASCIA PUSH RET - 10MM HEAD x 5MM HOLE | 10 |
| 500.7747 | TOYOTA - SCREW GROMMET (#9018906013) - 8MM HOLE | 15 |

NISSAN BODY CLIP ASSORTMENT



Art. No. 965.500300 - 270 pcs.

| Art. No. | Description | Qty. |
|-----------|--|------|
| 500.16784 | TOYOTA/NISSAN - PUSH TYPE RET - 7MM HOLE | 15 |
| 500.17472 | NISSAN - FRONT BUMPER PUSH TYPE RET - 8MM HOLE | |
| 500.18166 | NISSAN - TRIM PANEL RET - STEM DIAMETER 4MM | |
| 500.19246 | NISSAN - BUMPER PUSH TYPE RET - 18MM x 15MM | |
| 500.19274 | NISSAN - PUSH TYPE RETAINER - 20MM x 9MM | |
| 500.19684 | NISSAN - WEATHERSTRIP RET - 6MM HOLE | |
| 500.20327 | ALTIMA - BUMPER FASCIA RET '97+ - 9MM HOLE | |
| 500.20349 | NISSAN - BUMPER CLIP, BLACK NYLON - 8MM HOLE | |
| 500.20566 | HYUNDAI - BODY SIDE MOULDING CLIP, WHITE - #8, 14MM HEAD | |
| 500.20567 | HYUNDAI - SIDE MOULDING CLIP - 10MM | |
| 500.20568 | HYUNDAI - ROCKER PANEL CLIP W/SEALER - 10MM | |
| 500.20953 | NISSAN - BUMPER & RADIATOR SUPPORT RET - 20MM HEAD | |
| 500.21066 | HYUNDAI/KIA - FENDER & ROCKER NYLON NUT - 17MM HEAD | |
| 500.21070 | HYUNDAI/KIA/CHEV - TRIM PANEL RETAINER | |
| 500.21136 | HYUNDAI/KIA - MOULDING CLIP W/SEALER | |
| 500.21146 | KIA - BUMPER/FENDER/GRILLE/TRIM RET - 8MM HOLE | |
| 502.21321 | HYUNDAI - MOULDING CLIP W/ SEALER - 12MM HEAD | |
| 502.21588 | INFINITI & NISSAN - RETAINER - 8MM HEAD | |

GM BODY CLIP ASSORTMENT



Art. No. 965.502100 - 255 pcs.

| Art. No. | Description | Qty. |
|-----------|---|------|
| 502.11146 | GM/CHRY/FORD - RADOATOR YOKE/FENDER/BUMPER SHIELD RET | 30 |
| 502.12137 | GM - RADIATOR APRON PANEL RETAINER | 15 |
| 502.12766 | GM - FRONT STONE SHEILD RETAINER | |
| 502.16818 | GM/CHRY - TRIM PANEL RETAINER | |
| 502.17216 | GM/FORD/CHRY - UNDER CARRIAGE PUSH TYPE RETAINER | |
| 502.17222 | GM - PUSH TYPE RET FOR ROCKER PANELS | |
| 502.17664 | GM - SHIELD RETAINER | |
| 502.18153 | GM - RADIATOR GRILLE NUT - #8 SCREW SIZE | |
| 502.19615 | GM - REAR BUMPER COVER PUSH RETAINER | |
| 502.19639 | GM - RAD/WHELLHOUSE/FENDER PUSH RET | |
| 502.20377 | GM - MOULDING CLIP, WHITE STEM | |
| 502.20880 | GM - GRILLE/BUMPER/CALIPER RETAINER, BLACK | |
| 502.20889 | GM/FORD - VENT/FENDER RETAINER, BLACK | |
| 502.20988 | GM/CHRY - AIR & WINDSHIELD RETAINER, BLACK | |
| 502.20991 | CHEV/GMC - BUMPER/FLARES RETAINER, BLACK | |
| 502.21374 | GM - MOULDING CLIP | |

BODY RIVET ASSORTMENT



Art. No. 965.502130 - 285 pcs.

| Art. No. | Description | Qty. |
|------------|---|------|
| 502.13750 | CHRY/FORD/GM - BLACK RIVET - 6.3-10.0 | 25 |
| 502.13751 | GM/FORD - BLACK RIVET - 6.3-10.0 | |
| 502.13753 | GM/VW - BLACK PLASTIC RIVET - 6.63-5.0 | |
| 502.13755 | CHRY - BLACK PLASTIC RIVET - 5.0-10.0 | |
| 502.17639 | FORD/CHRY - SPLIT TYPE RIVET - 1/4" DIAMETER | 10 |
| 502.17615 | CHRYSLER - ALUMINUM RIVET - 3.2MM DIAMETER | 25 |
| 502.906853 | SPLIT RIVET, ALUMINUM GM U" VANS '90 - 3/16" DIAMETER | |
| 502.20971 | SPLIT RIVET, ALUMINUM - 4MM D x 1MM-7MM GR x 8MM FL | |
| 502.17121 | SPLIT TYPE RIVET ALUMINUM, BLACK - 3/16" D x 5/64"-15/16" GR x 7/16" FL | |
| 502.11620 | GM/FORD/CHRY - ALUMINUM RIVET - 1/4" D x 1/32"-9/64" GR x 1/2" FL | |
| 502.11621 | FORD/CHRY - PEEL TYPE RIVET, ALU - 1/4" D x 39/64"-19/32" GR x 1/2" FL | |
| 502.20741 | GM - SPLIT RIVET ALU, BLACK - 4.8MM D x 1MM-9MM GR x 16MM FL | |

ESSENTIAL BULB ASSORTMENT



Art. No. 965.720001 - 57 pcs.

| Art. No. | Description | Qty. |
|------------|--|------|
| 720.194000 | 14V-3.78W - MINI T3 1/4 WEDGE .27AMP - NO.194 | 10 |
| 720.194100 | 14V-3.78W - MINI T3 1/4 WEDGE .27AMP, AMBER - NO.194A | 5 |
| 720.315600 | 12.8V-26W - MINI LAMP 2.1AMP - NO.3156 (P27W) | |
| 720.315700 | 12.8/14V-26/8W - S8DF WEDGE 2.1/.59AMP - NO.3157 | 2 |
| 720.315710 | 12.8/14V-26/8W - S8DF WEDGE 2/.59AMP, AMBER - NO.3157A | |
| 720.335700 | 12.8/14V-28/6W - S8DF WEDGE 2.2/.59AMP - NO.3457 | |
| 720.335720 | 12.8/14V-26/8W - S8DF WEDGE 2/.59AMP, AMBER - NO.3157NA | |
| 720.744000 | 12V-21W - MINI LAMP 1.75AMP - NO.7440 (W21W) | |
| 720.744010 | 12V-21W - MINI LAMP 1.75AMP, AMBER - NO.7440A | |
| 720.744300 | 21V-21/5W - T6.5 WEDGE 1.75AMP - NO.7443(W21/5W) | |
| 720.305700 | 12.8V-26.88W - S8DF WEDGE 2.1AMP - NO.3057 | |
| 720.305710 | 12.8/14V-26/6W - S8DF WEDGE 2/.48AMP, AMBER - NO.3057A | |
| 720.235700 | 12.8/14V-28/8W - S8DC INDEX 2.2/.59AMP - NO.2357 | |
| 720.205700 | 12.8/14V-26/6W - S8DC INDEX 2.1AMP - NO.2057 | |
| 720.189100 | 14V-3.36W - MINI T3 1/4 M .24AMP - NO.1891 | |
| 720.189500 | 14V-3.78W - MINI LAMP G4 1/2 .27AMP - NO.1895 | |
| 720.115600 | 12.8V-26.88W - MINI LAMP S8 2.10AMP - NO.1156 | |
| 720.115610 | 12.8V-26.88W - MINI S8 2.10AMP, AMBER - NO.1156A | |
| 720.115700 | 12.8/14V-26/8W - MINI S8DC 2.1/.59AMP - NO.1157 | |
| 720.115710 | 12.8/14V-26/8W - SCDC INDEX 2.1/.59AMP, AMBER - NO.1157A | |

AUTOMOTIVE ASSORTMENTS



Art. No. 965.50200

Chrysler Specific Body Fastener Assortment

Contents (895 Pieces):
24 Chrysler Body Clips



Art. No. 965.50233

Honda Plastic Retainers Assortment

Contents: 215 Pieces



Art. No. 965.50250

Body Shop Trim Screws & Retainers Assortment



Art. No. 965.50244

Toyota Plastic Retainers, Grommets & Screws Assortment



Art. No. 965.50211

GM Specific Body Fastener Assortment

Contents (905 Pieces)



Art. No. 965.50222

Ford Specific Body Fastener Assortment

Contents (910 Pieces):
24 Ford Body Clips



Art. No. 965.500

Import Body Clip Assortment

Contents: 345 Pieces



Art. No. 964.50010

Import Vehicle Speed Nut Assortment

Contents (1375 Pieces):
16 Types/Size of Speed Nuts



Art. No. 965.502

Universal Body Bolt/Fastener Assortment

Contents (200 Pieces):
20 Types of Assorted Body Hardware



Art. No. 965.5021

Domestic Body Fastener Assortment

Contents (415 Pieces):
24 Types of Body Clips

ASSORTMENTS



Art. No. 964.5061

Tension Spring Assortment

Contents (378 Pieces):

20 popular sizes, 25 - 130 mm lengths



Art. No. 964.5062

Compression Spring Assortment

Contents (335 Pieces):

- Electro-galvanized
- 16 sizes from Lo 28 to Lo 65
- Spring steel wire DIN 17223 B galvanized, blue passivated (A2K)

METRIC & STANDARD HARDWARE BIN ASSORTMENTS

Assortments include 18 compartment heavy duty storage bin

STANDARD HARDWARE ASSORTMENT - ZINC PLATED



Art. No. 965.072 - 1575 pieces

Standard Hardware Bin Assortment

Standard Hex Bolts (UNC), Grade 5, Zinc-Plated: Prefix 072

1/4 x 1" (75), 1/4 x 1-1/2" (75), 1/4 x 2" (75)
 5/16 x 1" (75), 5/16 x 2" (75), 5/16 x 1-1/2" (75)
 3/8 x 1" (75), 3/8 x 1-1/2" (75), 3/8 x 2" (75)

Standard Hex Nuts (UNC), Grade 5, Zinc-Plated: Prefix 330

1/4" (100), 3/8" (100), 5/16" (100)

USS Flat Washer, Grade 5, Zinc-Plated: Prefix 408

1/4" (100), 3/8" (100), 5/16" (100)

Standard Lock Washers, Zinc-Plated: Prefix 442

1/4" (100), 3/8" (100), 5/16" (100)

* Must be entered on order by Back Office

METRIC & STANDARD HARDWARE BIN ASSORTMENTS

Assortments include 18 compartment heavy duty storage bin

METRIC HARDWARE ASSORTMENT - ZINC PLATED



Additional tools:

Metric and Standard Hardware Assortment - 2250 pieces

Art. No. 965.057072

Combination of **Art. No. 965.057** and **Art. No. 965.072** in a 36 compartment bin

*Must be entered on order by Back Office

Art. No. 965.057 - 675 pieces

Metric Hex Bolts (MC), 8.8 Zinc-Plated: Prefix 057

M6 x 10mm (25), M6 x 16mm (25), M6 x 20mm (25), M6 x 25mm (25) M8 x 20mm (25), M8 x 25mm (25), M8 x 30mm (25) M10 x 20mm (25), M10 x 30mm (25)

Metric Hex Nuts (MC), 8.8 Zinc-Plated - DIN 934: Prefix 317

M6 (50), M8 (50), M10 (50)

Metric Flat Washers, Zinc-Plated - DIN 125B: Prefix 407

M6 (50), M8 (50), M10 (50)

Metric Lock Washers, Zinc-Plated - DIN 127: Prefix 441

M6 (50), M8 (50), M10 (50)

STANDARD HARDWARE ASSORTMENT - 18.8 STAINLESS STEEL



Art. No. 965.077 - 810 pieces

Standard Hex Bolts (UNC), 18.8 SS: Prefix 076

3/8-16 x 1-1/4 UNC FT, 3/8-16 x 2 UNC PT, 1/2-13 x 2 UNC PT, 1/4-20 x 3/4 UNC FT, 1/4-20 x 1 UNC FT, 1/4-20 x 1-1/4 UNC FT, 1/4-20 x 2 UNC PT, 1/4-20 x 2 UNC PT, 1/4-20 x 2-1/2 UNC PT, 5/16-18 x 3/4 UNC FT, 5/16-18 x 1 UNC FT, 5/16-18 x 1-1/4 UNC FT, 5/16-18 x 1-1/2 UNC PT, 5/16-18 x 2 UNC PT, 5/16-18 x 2-1/2 UNC PT, 3/8-16 x 3/4 UNC FT, 3/8-16 x 1 UNC FT, 3/8-16 x 1-1/2, 3/8-16 x 2-1/2, 1/2-13 x 1 UNC FT, 1/2-13 x 1-1/2 UNC PT

Standard Hex Bolts (UNC), 18.8 SS: Prefix 340

1/4-20 UNC, 5/16-18 UNC, 3/8-16 UNC, 1/2-13 UNC

Standard Flat Washers, Stainless Steel: Prefix 426

#12 x 9/16 x 1/16, 1/4 x 5/8 x 1/16, 5/16 x 11/16 x 1/16, 3/8 x 13/16 x 1/16

Standard Lock Washers, Stainless Steel: Prefix 440

1/4 x 0.489 x 0.062, 5/16 x 0.586 x 0.078, 3/8 x 0.683 x 0.094, 1/2 x 0.873 x 0.125

*Must be entered on order by Back Office

AUTOMOTIVE HARDWARE "START-UP" ASSORTMENT - ZINC PLATED



Art. No. 965.972 - 3805 pieces

Metric and Standard Bin

Start-up hardware assortment includes a 32 & 40 compartment heavy duty storage bin.

Metric Flat Washers, Zinc-Plated - DIN 125: Prefix 407

6 mm(100), 8 mm(100), 10 mm(100)

Metric Split Lock Washers, Zinc-Plated - DIN 127B: Prefix 441

M6 (100), M8 (100), M10 (50)

Standard Hex Nuts - ERS Zinc-Plated: Prefix 330

1/4" (100), 5/16" (100), 3/8" (100)

Standard Sae Flat Washers, Zinc-Plated: Prefix 409

1/4" (100), 5/16" (100), 3/8" (100)

Standard Split Lock Washers, Zinc-Plated: Prefix 442

1/4" (100), 5/16" (100), 3/8" (100)

Standard Split Cotter Pins, Zinc-Plated: Prefix 471

1/16 x 1" (100), 3/32 x 1" (100), 1/8 x 2" (100)

Hex Washer Head Sheet Metal (Tapping)

Screws, Zinc-Plated: Prefix 111

#14 x 1" (50)

Hex Washer Head Sheet Metal (Tapping)

Screws, Zinc-Plated: Prefix 502

5/16" x 1" (50) **Art. No. 502.2979**

Metric Hex Bolts, 8.8 Zinc-Plated: Prefix 057

M6 x 12 (50), M6 x 20 (50), M6 x 25 (50), M6 x 30 (50), M6 x 40 (25), M8 x 20 (25), M8 x 25 (25), M8 x 30 (25), M8 x 35 (25), M8 x 40 (25), M10 x 20 (25), M10 x 25 (25), M10 x 30 (25), M10 x 35 (25), M10 x 40 (25)

Standard Hex Bolts, Grade 5, Zinc-Plated: Prefix 072

1/4 x 3/4 (100), 1/4 x 1 (100), 1/4 x 1-1/4 (100), 1/4 x 1-1/2 (100), 1/4 x 2 (50) 5/16 x 1 (50), 5/16 x 1-1/4 (50), 5/16 x 1-1/2 (50), 5/16 x 1-3/4 (50), 5/16 x 2 (50) 3/8 x 1 (50), 3/8 x 1-1/4 (50), 3/8 x 1-1/2 (50), 3/8 x 2 (50) 3/8 x 3 (10)

Metric Indented Hex Jis Bolt, Yellow Zinc Plated:

Prefix 062

10 x 40 mm (20)

Metric Flange Nuts (Serrated) Reduced Wrench Size

J.I.S.-B 1190, 10.9, Yellow Zinc Plated: Prefix 315

10 mm (100)

Black Wire Ties: Prefix 553

7" (100), 11" (100)

Metric Hex Nuts, 8.8 Zinc-Plated - DIN 934: Prefix 317

M6(100), M8(100), M10(50)

*Must be entered on order by Back Office

10.9 HARDWARE ASSORTMENT



Art. No. 965.068 - 2014 pieces

Note: ORSY Bins Art. No. 966.3 (x2) and Label Set Art. No. 965.068L are ordered separately.

Bin 1

| Description | Art. No. | Qty |
|---|------------------|-----|
| M6-1.0 x 20 mm MC Hex Bolt 10.9 Yellow Zinc | 068.6..20 | 25 |
| M6-1.0 x 25 mm MC Hex Bolt 10.9 Yellow Zinc | 068.6..25 | 25 |
| M6-1.0 x 30 mm MC Hex Bolt 10.9 Yellow Zinc | 068.6..30 | 25 |
| M6-1.0 x 35 mm MC Hex Bolt 10.9 Yellow Zinc | 068.6..35 | 25 |
| M6-1.0 x 40 mm MC Hex Bolt 10.9 Yellow Zinc | 068.6..40 | 25 |
| M6-1.0 x 45 mm MC Hex Bolt 10.9 Yellow Zinc | 068.6..45 | 25 |
| M6-1.0 x 50 mm MC Hex Bolt 10.9 Yellow Zinc | 068.6..50 | 25 |
| M8-1.25 x 20 mm MC Hex Bolt 10.9 Yellow Zinc | 068.8..20 | 25 |
| M8-1.25 x 25 mm MC Hex Bolt 10.9 Yellow Zinc | 068.8..25 | 25 |
| M8-1.25 x 30 mm MC Hex Bolt 10.9 Yellow Zinc | 068.8..30 | 25 |
| M8-1.25 x 40 mm MC Hex Bolt 10.9 Yellow Zinc | 068.8..40 | 25 |
| M8-1.25 x 50 mm MC Hex Bolt 10.9 Yellow Zinc | 068.8..50 | 25 |
| M8-1.25 x 60 mm MC Hex Bolt 10.9 Yellow Zinc | 068.8..60 | 25 |
| M8-1.25 x 70 mm MC Hex Bolt 10.9 Yellow Zinc | 068.8..70 | 25 |
| M10-1.5 x 20 mm MC Hex Bolt 10.9 Yellow Zinc | 068.10.20 | 25 |
| M10-1.5 x 25 mm MC Hex Bolt 10.9 Yellow Zinc | 068.10.25 | 25 |
| M10-1.5 x 30 mm MC Hex Bolt 10.9 Yellow Zinc | 068.10.30 | 25 |
| M10-1.5 x 40 mm MC Hex Bolt 10.9 Yellow Zinc | 068.10.40 | 25 |
| M10-1.5 x 50 mm MC Hex Bolt 10.9 Yellow Zinc | 068.10.50 | 25 |
| M10-1.5 x 60 mm MC Hex Bolt 10.9 Yellow Zinc | 068.10.60 | 25 |
| M10-1.5 x 70 mm MC Hex Bolt 10.9 Yellow Zinc | 068.10.70 | 25 |
| M12-1.75 x 30 mm MC Hex Bolt 10.9 Yellow Zinc | 068.12.30 | 25 |
| M12-1.75 x 40 mm MC Hex Bolt 10.9 Yellow Zinc | 068.12.40 | 25 |
| M12-1.75 x 50 mm MC Hex Bolt 10.9 Yellow Zinc | 068.12.50 | 25 |
| M12-1.75 x 60 mm MC Hex Bolt 10.9 Yellow Zinc | 068.12.60 | 25 |
| M12-1.75 x 70 mm MC Hex Bolt 10.9 Yellow Zinc | 068.12.70 | 25 |
| M12-1.75 x 80 mm MC Hex Bolt 10.9 Yellow Zinc | 068.12.80 | 25 |
| M12-1.75 x 90 mm MC Hex Bolt 10.9 Yellow Zinc | 068.12.90 | 25 |
| M14-2.0 x 30 mm MC Hex Bolt 10.9 Yellow Zinc | 068.14.30 | 10 |
| M14-2.0 x 40 mm MC Hex Bolt 10.9 Yellow Zinc | 068.14.40 | 10 |
| M14-2.0 x 45 mm MC Hex Bolt 10.9 Yellow Zinc | 068.14.45 | 10 |
| M14-2.0 x 60 mm MC Hex Bolt 10.9 Yellow Zinc | 068.14.60 | 10 |
| M14-2.0 x 70 mm MC Hex Bolt 10.9 Yellow Zinc | 068.14.70 | 10 |
| M14-2.0 x 80 mm MC Hex Bolt 10.9 Yellow Zinc | 068.14.80 | 10 |
| M14-2.0 x 90 mm MC Hex Bolt 10.9 Yellow Zinc | 068.14.90 | 10 |

Bin 2

| Description | Art. No. | Qty |
|--|------------------|-----|
| M16-2.0X30 mm MC Hex Bolt 10.9 Yellow Zinc | 068.16.30 | 10 |
| M16-2.0X40 mm MC Hex Bolt 10.9 Yellow Zinc | 068.16.40 | 10 |
| M16-2.0X50 mm MC Hex Bolt 10.9 Yellow Zinc | 068.16.50 | 10 |
| M16-2.0X60 mm MC Hex Bolt 10.9 Yellow Zinc | 068.16.60 | 10 |
| M16-2.0X70 mm MC Hex Bolt 10.9 Yellow Zinc | 068.16.70 | 10 |
| M16-2.0X80 mm MC Hex Bolt 10.9 Yellow Zinc | 068.16.80 | 10 |
| M16-2.0X90 mm MC Hex Bolt 10.9 Yellow Zinc | 068.16.90 | 10 |
| M6-1.0 MC Hex Nut 10.9 Yellow Zinc | 324.6 | 100 |
| M8-1.25 MC Hex Nut 10.9 Yellow Zinc | 324.8 | 100 |
| M10-1.5 MC Hex Nut 10.9 Yellow Zinc | 324.10 | 50 |
| M12-1.75 MC Hex Nut 10.9 Yellow Zinc | 324.12 | 50 |
| M14-2.0 MC Hex Nut 10.9 Yellow Zinc | 324.14 | 50 |
| M16-2.0 MC Hex Nut 10.9 Yellow Zinc | 324.16 | 25 |
| Flat Wsh ZN Hard M6x12x1.6 mm | 402.6 | 100 |
| Flat Wsh ZN Hard M8x16x1.6 mm | 402.8 | 100 |
| Flat Wsh ZN Hard M10x20x2.0 mm | 402.10 | 50 |
| Flat Wsh ZN Hard M12x24x2.5 mm | 402.12 | 50 |
| Flat Wsh ZN Hard M14x28x2.5 mm | 402.14 | 50 |
| Flat Wsh ZN Hard M16x30x3.0 mm | 402.16 | 25 |
| Hardened Lock Washer M6 ZINC | 446.6 | 100 |
| Hardened Lock Washer M8 ZINC | 446.8 | 100 |
| Hardened Lock Washer M10 ZINC | 446.10 | 100 |
| Hardened Lock Washer M12 ZINC | 446.12 | 50 |
| Hardened Lock Washer M14 ZINC | 446.14 | 50 |
| Hardened Lock Washer M16 ZINC | 446.16 | 25 |

*Must be entered on order by Back Office

TRUCKING "START-UP" ASSORTMENT - YELLOW ZINC PLATED

Art. No. 965.074 - 2420 pieces

Start-up trucking assortment includes two 36 compartment heavy duty storage bins



Standard Hex Bolts (UNC) Grade 8, Yellow Zinc Plated: Prefix 074

| Technical Data | | |
|------------------|--------|----------|
| Dia-Thread Pitch | Length | Quantity |
| 1/2-20 | 3/4 | 100 |
| 5/16-18 | 3/4 | 25 |
| 3/8-16 | 3/4 | 50 |
| 7/16-14 | 3/4 | 25 |
| 1/2-13 | 3/4 | 25 |
| 1/4-20 | 1 | 100 |
| 5/16-18 | 1 | 50 |
| 3/8-16 | 1 | 50 |
| 7/16-14 | 1 | 50 |
| 1/2-13 | 1 | 25 |
| 9/16-12 | 1-1/4 | 10 |
| 5/8-11 | 1 | 25 |
| 1/4-20 | 1-1/2 | 100 |
| 5/16-18 | 1-1/2 | 50 |
| 3/8-16 | 1-1/2 | 50 |
| 7/16-14 | 1-1/2 | 25 |
| 1/2-13 | 1-1/2 | 25 |
| 9/16-12 | 1-1/2 | 10 |

| Technical Data | | |
|------------------|--------|----------|
| Dia-Thread Pitch | Length | Quantity |
| 5/8-11 | 1-1/2 | 25 |
| 1/4-20 | 2 | 50 |
| 5/16-18 | 2 | 50 |
| 3/8-16 | 2 | 50 |
| 7/16-14 | 2 | 25 |
| 1/2-13 | 2 | 25 |
| 9/16-12 | 2 | 10 |
| 5/8-11 | 2 | 25 |
| 1/4-20 | 3 | 25 |
| 5/16-18 | 3 | 25 |
| 3/8-16 | 3 | 25 |
| 7/16-14 | 3 | 25 |
| 1/2-13 | 3 | 25 |
| 9/16-12 | 3 | 10 |
| 5/8-11 | 3 | 10 |
| 9/16-12 | 3-1/2 | 10 |
| 5/8-11 | 3-1/2 | 10 |

Standard Hex Nuts (UNC) Grade 8, Yellow Zinc Plated: Prefix 332

| Technical Data | |
|------------------|----------|
| Dia-Thread Pitch | Quantity |
| 1/4-20 | 100 |
| 5/16-18 | 100 |
| 3/8-16 | 100 |
| 7/16-14 | 50 |
| 1/2-13 | 50 |
| 9/16-12 | 25 |
| 5/8-11 | 25 |

Standard SAE Flat Washers - F436 - Yellow Zinc Plated: Prefix 410

| Technical Data | |
|----------------|----------|
| Diameter | Quantity |
| 1/4 | 100 |
| 5/16 | 100 |
| 3/8 | 100 |
| 7/16 | 50 |
| 1/2 | 50 |
| 9/16 | 50 |
| 5/8 | 50 |

Standard Split Lock Washers - High Alloy, Yellow Zinc Plated: Prefix 444

| Technical Data | |
|----------------|----------|
| Diameter | Quantity |
| 1/4 | 50 |
| 5/16 | 50 |
| 3/8 | 50 |
| 7/16 | 25 |
| 1/2 | 25 |
| 9/16 | 25 |
| 5/8 | 25 |

*Must be entered on order by Back Office

ON DEMAND AVAILABLE PRODUCTS

| | |
|------------|--------------------|
| BA | Bare (Not Plated) |
| ZN | Clear Zinc Plated |
| YZ | Yellow Zinc Plated |
| HDG | Hot Dip Galvanized |
| CDM | Cadmium Plated |
| CHR | Chrome Plated |
| N/S | Non-Standard Size |
| US | Undersized |

| | |
|------------|---|
| UNC | Unified National Coarse (Coarse Thread - Imperial) |
| UNF | Unified National Fine (Fine Thread - Imperial) |
| MC | Metric Coarse |
| MF | Metric Fine |
| FT | Full Thread |
| PT | Partial Thread |
| SS | Stainless Steel |

Important:

- Items marked as **New Prefix/OnDemand Only** will not be found on your product pages. Please check your price list or Wurthnet for all available sizes.
- Items marked with **Additional Sizes Added To OnDemand** have existing product pages with technical info, but additional sizes or finishes can only be found in your price list or on Wurthnet.
- When looking at your pricelist – all OnDemand items will have an Asterisk (*) in the far left column

| OnDemand Only | Prefix | Description | Additional Sizes In OnDemand | Now Also Available In |
|---------------|--------|--|------------------------------|---|
| ✓ | 224 | HEX BOLTS - UNC - GRADE 2 - BARE | | CLEAR ZINC (ZN) |
| ✓ | 097 | HEX BOLTS - UNC - GRADE 2 - HDG | | |
| | 071 | HEX BOLTS - UNF - GRADE 5 - ZN | ✓ | BARE & YELLOW ZINC (YZ) |
| | 072 | HEX BOLTS - UNC - GRADE 5 - ZN | ✓ | BARE & YELLOW ZINC (YZ) |
| | 073 | HEX BOLTS - UNF - GRADE 8 - YZ | ✓ | BARE |
| | 074 | HEX BOLTS - UNC - GRADE 8 - YZ | ✓ | BARE |
| | 076 | HEX BOLTS - UNC - 18.8 SS | ✓ | FINE THREAD |
| | 077 | HEX BOLTS - UNC - 316 SS | ✓ | FINE THREAD |
| ✓ | 079 | HEX BOLTS - UNC/UNF - L9 - YZ | | |
| | 053 | HEX BOLTS - MC - 8.8 - ZN - DIN931 | ✓ | |
| | 057 | HEX BOLTS - MC - 8.8 - ZN - DIN933 | ✓ | BARE |
| ✓ | 058 | HEX BOLTS - MF - 8.8 - ZN - DIN931/933 | | |
| | 068 | HEX BOLTS - MC - 10.9 - YZ - DIN931/933 | ✓ | CLEAR ZINC (ZN) |
| | 096 | HEX BOLTS - MC - A2 SS - DIN933 | ✓ | DIN931 |
| ✓ | 226 | HEX TAP BOLTS - GRADE 2 - BARE/ZN | | |
| | 228 | HEX TAP BOLTS - GRADE 5 - BARE/ZN | ✓ | |
| ✓ | 236 | HEAVY HEX BOLTS - B7 - BARE (A193) | | |
| ✓ | 232 | A325 STRCTL BIT & ASSY W/NUT&WSH - GR5 - BARE/HDG | | |
| | 192 | HEX LAG SCREWS - ZN | ✓ | |
| | 191 | HEX LAG SCREWS - 18.8 SS | ✓ | |
| ✓ | 190 | HEX LAG SCREWS - GRADE 2 - HDG | | |
| | 220 | CARRIAGE BOLTS - UNC - GRADE 5 - ZN | ✓ | GRADE 2 & BARE |
| ✓ | 230 | CARRIAGE BOLTS - UNC - GRADE 2 - HDG (US=UNDERSIZED) | | |
| | 223 | CARRIAGE BOLTS - UNC - 18.8 SS | ✓ | |
| | 221 | PLOW BOLTS - UNC - GRADE 5 - BARE | ✓ | |
| ✓ | 229 | PLOW BOLTS - UNC - GRADE 5 - ZN | | |
| ✓ | 075 | HANGER BOLTS - GRADE 2 - BARE | | |
| | 222 | ELEVATOR BOLTS - GRADE 2 - BARE/ZN | ✓ | |
| ✓ | 227 | STEP BOLTS - GRADE 2 - BARE | | |
| | 082 | SOCKET CAP SCREWS - UNC/UNF - ALLOY - BARE | ✓ | CLEAR ZINC (ZN) |
| | 081 | SOCKET CAP SCREWS - UNC - 316 SS | ✓ | FINE THREAD & 18.8 SS |
| ✓ | 089 | SOCKET CAP SCREWS - UNC/UNF - SILICON BRONZE/NI-CU ALLOY | | |
| | 083 | SOCKET CAP SCREWS - MC - 12.9 - BARE - DIN912 | ✓ | CLEAR ZINC (ZN) |
| ✓ | 080 | SOCKET CAP SCREWS - MF - 12.9 - BARE - DIN912 | | |
| | 094 | SOCKET CAP SCREWS - MC - A2 SS | ✓ | |
| | 087 | SOCKET CAP SCREWS - FLAT HEAD - UNC/UNF - ALLOY - BARE | ✓ | CLEAR ZINC (ZN) & 18.8 SS |
| | 095 | SOCKET CAP SCREWS - FLAT HEAD - MC - 12.9 - BARE | ✓ | |
| ✓ | 093 | SOCKET CAP SCREWS - FLAT HEAD - MC - 12.9 - ZN | | |
| | 086 | SOCKET CAP SCREWS - FLAT HEAD - MC - A2 SS | ✓ | |
| | 092 | SOCKET CAP SCREWS - UNC - BUTTON HEAD - ALLOY - BARE | ✓ | CLEAR ZINC (ZN) & 18.8 SS & LOW HEAD BARE |
| | 091 | SOCKET CAP SCREWS - UNF - BUTTON HEAD - ALLOY - BARE | ✓ | CLEAR ZINC (ZN) & 18.8 SS |
| ✓ | 099 | SOCKET CAP SCREWS - BUTTON HEAD - MC - 12.9 - BARE/ZN | | |
| | 098 | SOCKET CAP SCREWS - BUTTON HEAD - MC - A2 SS | ✓ | |
| ✓ | 078 | SOCKET CAP SCREWS - LOW HEAD - MC - 10.9 - BARE/A2 SS | | |
| | 088 | SOCKET SHOULDER SCREWS - UNC - ALLOY - BARE | ✓ | 18.8 SS |
| | 085 | SOCKET SHOULDER SCREWS - MC - 12.9 - BARE | ✓ | |
| | 255 | SET SCREWS - UNC/UNF - CUP PT - ALLOY - BARE | ✓ | CLEAR ZINC (ZN) & BRASS & NI-CU ALLOY |
| | 256 | SET SCREWS - UNC/UNF - CUP PT - 18.8 SS | ✓ | 316 SS |
| ✓ | 257 | SET SCREWS - UNC/UNF - SLOTTED - GRADE 2 - ZN/18.8 SS | | |

| OnDemand Only | Prefix | Description | Additional Sizes In OnDemand | Now Also Available In |
|---------------|---------|--|------------------------------|-----------------------|
| ✓ | 264 | SET SCREWS - UNC/UNF - OVAL PT - ALLOY - BARE/18.8 SS | | |
| ✓ | 265 | SET SCREWS - UNC/UNF - 1/2 DOG PT/FULL DOG PT - ALLOY - BARE/18.8 SS | | |
| ✓ | 267 | SET SCREWS - UNC/UNF - CONE PT - ALLOY - BARE/18.8 SS | | |
| ✓ | 268 | SET SCREWS - UNC/UNF - FLAT PT - ALLOY - BARE/18.8 SS | | |
| ✓ | 263 | SET SCREWS - UNC - KNURL PT - ALLOY - BARE | | |
| | 261 | SET SCREWS - MC - CUP PT - A2 SS | ✓ | |
| ✓ | 254 | SQUARE HEAD SET SCREWS - UNC/UNF - CUP PT - GRADE 2 - BARE/18.8 SS | | |
| ✓ | 237 | SQUARE HEAD SET SCREWS - UNC - CONE PT - GRADE 2 -BARE | | |
| ✓ | 238 | SQUARE HEAD SET SCREWS - UNC - OVAL PT - GRADE 2 -BARE | | |
| ✓ | 244 | SQUARE HEAD SET SCREWS - UNC - 1/2 DOG PT - GRADE 2 -BARE | | |
| ✓ | 245 | SQUARE HEAD SET SCREWS - UNC - FLAT PT - GRADE 2 -BARE | | |
| ✓ | 253 | LOCKING SOCKET JAM SCREW - UNC/UNF - ALLOY - BARE | | |
| | 032,033 | MACHINE SCREWS - PAN ROB/SLOT - ZN | ✓ | |
| ✓ | 043 | MACHINE SCREWS - FLAT ROB - ZN | | |
| ✓ | 031 | MACHINE SCREWS - TRUSS PH - 18.8 SS | | |
| | 034 | MACHINE SCREWS - FLAT PH - 18.8 SS | ✓ | |
| | 036 | MACHINE SCREWS - PAN PH - ZN | ✓ | |
| | 035 | MACHINE SCREWS - PAN PH - 316/18.8 SS | ✓ | |
| | 038 | MACHINE SCREWS - OVAL PH - 18.8 SS | ✓ | |
| | 102 | SMS (TAPPING) SCREWS - PAN ROB - ZN | ✓ | |
| ✓ | 122 | SMS (TAPPING) SCREWS - TRUSS ROB - ZN | | |
| ✓ | 126 | SMS (TAPPING) SCREWS - FLAT ROB - ZN | | |
| | 123 | SMS (TAPPING) SCREWS - TRUSS PH - 18.8 SS | ✓ | |
| | 127 | SMS (TAPPING) SCREWS - FLAT PH - 18.8 SS | ✓ | |
| ✓ | 128 | SMS (TAPPING) SCREWS - PAN PH - 18.8 SS/ZN | | |
| | 131 | SMS (TAPPING) SCREWS - OVAL PH - 18.8 SS | ✓ | |
| | 111 | SMS (TAPPING) SCREWS - HEX+W SLOT - ZN | ✓ | |
| | 101 | DRILL PT SCREWS - PAN ROB/HEX+W - ZN/HDG | ✓ | |
| | 213 | DRILL PT SCREWS - PAN PH - ZN | ✓ | |
| | 214 | DRILL PT SCREWS - HEX - ZN | ✓ | |
| | 219 | DRILL PT SCREWS - WAFER ROB - ZN | ✓ | |
| | 103 | WOOD SCREWS - FLAT ROB - ZN | ✓ | |
| ✓ | 106 | WOOD SCREWS - ROUND ROB - ZN | | |
| ✓ | 216 | WOOD SCREWS - FLAT ROB/PH - ZN (NIBS) | | |
| ✓ | 216 | ROOFING SCREWS/SIDING SCREWS | | |
| ✓ | 141 | THUMB SCREWS - ZN | | |
| | 958 | THREADED ROD - UNC/UNF - GRADE 2 - ZN | ✓ | BARE |
| ✓ | 953 | THREADED ROD - UNF - GRADE 2 - BARE | | |
| ✓ | 951 | THREADED ROD - UNC/UNF - B7 - BARE/YZ | | |
| ✓ | 952 | THREADED ROD - UNF - B7 - YZ | | |
| | 960 | THREADED ROD - UNC - 316 SS | ✓ | |
| | 963 | THREADED ROD - UNC - 18.8 SS | ✓ | |
| | 957 | THREADED ROD - 4.8/8.8 - ZN | ✓ | |
| ✓ | 346 | HEX NUTS - UNC - GRADE 2 - BARE | | |
| ✓ | 347 | HEX NUTS - UNF - GRADE 2 - BARE/ZN | | |
| | 329 | HEX NUTS (MACHINE SCREW) - GRADE 2 - ZN | ✓ | 18.8 SS |
| ✓ | 354 | HEX NUTS - UNC - GRADE 2 - HDG | | |
| | 330 | HEX NUTS - UNC - GRADE 5 - ZN | ✓ | BARE |
| | 331 | HEX NUTS - UNF - GRADE 5 - ZN | ✓ | BARE |
| ✓ | 326 | HEX NUTS - UNC/UNF - GRADE 8 - ZN | | |
| | 332 | HEX NUTS - UNC - GRADE 8 - YZ | ✓ | BARE |
| | 333 | HEX NUTS - UNF - GRADE 8 - YZ | ✓ | BARE |
| | 340 | HEX NUTS - UNC - 18.8/316 SS | ✓ | FINE THREAD |
| ✓ | 306 | HEX NUTS - UNC/UNF - L9 - YLW/WAX | | |
| ✓ | 316 | HEX NUTS - MC - 10.9 - BARE - DIN934 | | |
| | 325 | HEX NUTS - MC - 10.9 - ZN - DIN934 | ✓ | |
| | 323 | HEX NUTS - MC - A2 SS | ✓ | |
| ✓ | 313 | HEX NUTS - HEAVY STYLE - GRADE 2 - BARE/ZN/18.8 SS/HDG | | |
| ✓ | 353 | HEX NUTS - HEAVY STYLE - SEMI-FIN - GRADE 2/2H - ZN/BARE | | |
| | 313 | HEX NUTS - SLOTTED - GRADE 2 - BARE | ✓ | |
| | 308 | HEX JAM NUTS - UNC - GRADE 2 - ZN | ✓ | BARE & 18.8 SS |

| OnDemand Only | Prefix | Description | Additional Sizes In OnDemand | Now Also Available In |
|---------------|---------|---|------------------------------|-----------------------------------|
| | 309 | HEX JAM NUTS - UNF - GRADE 2 - ZN | ✓ | BARE & YELLOW ZINC (YZ) & 18.8 SS |
| ✓ | 348 | HEX JAM NUTS - UNC - GRADE 2 - HDG | | |
| ✓ | 371 | NYLON LOCKNUTS - UNC/UNF - GRADE 2 - ZN | | |
| ✓ | 339 | NYLON LOCKNUTS - UNC/UNF - GRADE C - YZ/PHOS&OIL | | |
| | 367 | NYLON LOCKNUTS - UNC/UNF - 316/18.8 SS | ✓ | |
| | 368 | NYLON LOCKNUTS - MC/MF - 8.8 - ZN - DIN985 | ✓ | HEAVY STYLE |
| | 311 | NYLON JAM LOCKNUTS - UNC - GRADE 2 - ZN | ✓ | |
| | 312 | NYLON JAM LOCKNUTS - UNF - GRADE 2 - ZN | ✓ | |
| ✓ | 376 | NYLON JAM LOCKNUTS - UNC/UNF - 316/18.8 SS | | |
| | 334 | STOVER LOCK NUTS - UNF - GRADE C - CDM | | CLEAR ZINC (ZN) |
| | 335 | STOVER LOCK NUTS - UNC - GRADE C - CDM | | CLEAR ZINC (ZN) |
| ✓ | 336 | STOVER LOCK NUTS - UNC - GRADE B - ZN | | |
| ✓ | 338 | STOVER LOCK NUTS - UNF - GRADE B - ZN | | |
| | 307 | COLLAR LOCKNUTS - UNC/UNF - L9 - YLW/WAX | ✓ | |
| | 313 | TEE NUTS - 3 PRONG/4 PRONG | ✓ | |
| | 314 | HEX CASTLE NUTS - GRADE 5 - ZN | | GRADE 2 - BARE |
| | 322 | FLANGE NUT SERRATED - UNC/UNF - GRADE 2 - ZINC | ✓ | |
| | 327 | KEPS LOCK NUTS - UNC - GRADE 2 - ZN | ✓ | |
| | 328 | KEPS LOCK NUTS - UNF - GRADE 2 - ZN | ✓ | |
| ✓ | 337 | SQUARE NUTS - UNC - GRADE 2 - BARE/HDG | | |
| ✓ | 359 | SQUARE NUTS - MACHINE SCREW SIZE - GRADE 2 - ZN | | |
| ✓ | 351 | TWO-WAY LOCKNUT - UNC/UNF - GRADE 2 - ZN/ZN&LUB | | |
| ✓ | 355 | ACORN CAP NUT - GRADE 2 - ZN | | |
| ✓ | 341,343 | WING NUTS - GRADE 2 - ZN | ✓ | |
| | 974 | HEX COUPLING NUT - GRADE 2 - ZN | ✓ | |
| ✓ | 417 | USS FLAT WASHERS - GRADE 2 - BARE/ZINC/HDG | | |
| ✓ | 421 | SAE FLAT WASHERS - GRADE 2 - BARE/ZINC | | |
| | 408 | USS FLAT WASHERS - GRADE 5 - BARE/ZN | ✓ | YELLOW ZINC (YZ) |
| | 409 | SAE FLAT WASHERS - GRADE 5 - ZN | ✓ | YELLOW ZINC (YZ) & BARE |
| | 404 | FLAT WASHERS - L9 - YZ | ✓ | USS & SAE |
| ✓ | 418,419 | FLAT WASHERS - HDG | | |
| | 410 | STRUCTURAL FLAT WASHERS - F436 - YZ | ✓ | BARE & HDG |
| | 412 | FENDER WASHERS - GRADE 5 - ZN | ✓ | GRADE 2 |
| ✓ | 424 | LOCK WASHERS - EXTERNAL CTSK TOOTH - ZN | | |
| | 427 | LOCK WASHERS - EXTERNAL TOOTH - ZN | ✓ | |
| | 425 | LOCK WASHERS - INTERNAL TOOTH - ZN | ✓ | |
| ✓ | 445 | LOCK WASHERS - EXTRA DUTY | | |
| | 442 | SPLIT LOCK WASHERS - GRADE 5 - ZN | ✓ | BARE & HDG |
| | 440 | SPLIT LOCK WASHERS - 316/18.8 SS | ✓ | |
| | 441 | SPLIT LOCK WASHERS - ZN/YZ - DIN127B | ✓ | |
| ✓ | 466 | SPLIT LOCK WASHERS - HDG | | |
| ✓ | 443 | HI-COLLAR LOCK WASHER - GRADE 5 - BARE | | |
| ✓ | 448 | SQUARE BEVELED MALLEABLE WASHERS - BARE/HDG | | |
| ✓ | 449 | SQUARE BEVELED HARDENED WASHERS - BARE/HDG | | |
| | 405 | BEVEL WASHERS - BARE | ✓ | |
| ✓ | 269 | DOWEL PINS/PULL-OUT DOWEL PINS - ALLOY - BARE/18.8 SS | | |
| | 480 | DOWEL PINS - ALLOY - BARE - DIN6325 | ✓ | |
| | 481 | PULL-OUT DOWEL PINS - ALLOY - BARE - DIN7979 | ✓ | |
| ✓ | 483 | DOWEL PINS - A4 SS - DIN7 | | |
| | 471 | COTTER PINS - ZN | ✓ | |
| | 476 | ROLL PINS - BARE | ✓ | |
| ✓ | 477 | ROLL PINS - STAINLESS STEEL | | |
| ✓ | 479 | WOODRUFF KEYS | | |

02 ABRASIVES

5 Bonded Abrasives

- 5 Grinding Wheels
- 11 Cut Off Wheels
- 16 Chop Saw Blades
- 17 Grinding Stones

18 Coated Abrasives

- 18 Resin Fibre Discs
- 24 Surface Conditioning Discs
- 27 Flap Discs
- 33 Flap Wheels
- 33 Cartridge Rolls & Accessories

35 Non-Woven Abrasives

- 35 Buff & Blend
- 36 Sanding Hand Pads
- 37 Nylon Abrasive Fleece

37 Nylon Fibre Discs

38 Quick Strip

40 Sanding Belts

41 Decal Residue Removers

41 Wire Wheels & Brushes

44 Hand Brushes

46 Bristle Type Discs

46 Sanding Discs, Paper & Accessories

54 Abrasive Assortments



GLOSSARY OF ABRASIVE TERMS

Abrasive A substance used for abrading - grinding - polishing - lapping, such as the natural materials Emery, Garnet, Flint, and Crocus, and the manufactured or electric furnace materials Aluminum Oxide, Silicon Carbide, Zirconia Alumina and Ceramics. One of the three basic components of a coated abrasive product (backing, bond, abrasive grain).

Aluminum Oxide An abrasive made by fusing the mineral bauxite (Al₂O₃).

Arbour The spindle of the grinding machine on which the contact wheel or idler pulley is mounted.

Arbour Hole The hole in the contact wheel or idler pulley sized to fit the machine arbor.

Backing A flexible or semi-rigid material to which abrasive grain is bonded by an adhesive. Paper, cloth, fibre and combination are the major backings used for coated abrasives.

Backing (Back-up) Pad Usually a rubber or composition type material to which an abrasive disc is attached. The backing pad supports the disc during the grinding operation and is normally the same diameter or slightly smaller than the disc.

Blending Using abrasives to develop a consistent finish over an entire work piece, as on a welded area.

Buffing The smoothing and brightening of a surface utilizing an abrasive compound applied to a fabric type wheel or belt.

Burning the Work A change in the characteristics of the work piece being ground. Detected by surface discolouration or a distinct "burning" odour.

Burnishing Refining a surface using fine grit coated abrasives to create a special effect with minimum stock removal.

Burrs A thin, ragged fin, left on the edge of a piece of metal by a cutting tool (including coated abrasives).

Bushing A metal or plastic insert used to alter the size of a center hole (primarily in rolls or flap wheels) to accommodate a smaller mandrel or arbour.

Cartridge Roll A strip of coated abrasive wound in multiple wraps around a center hole and glued. Mounted on a mandrel and used on a high speed portable tool for intricate polishing.

Chatter An undesirable, repetitive pattern created on the surface of a workpiece, usually at regularly-spaced intervals, due to an out-of-round or out-of-balance condition in the abrasive machine.

Chips Pieces of material removed by an individual abrasive grain during the abrasive grinding operation.

Closed Coat A coated abrasive product completely covered by abrasive grain on the coat side.

Concave (Curl) A coated abrasive product with a curved (curled) configuration in which the abrasive grain is in the inside curve (grain side concave).

Convex (Curl) A coated abrasive product with a curved (curled) configuration in which the abrasive grain is on the outside curve (grain side convex).

Cutting Rate The amount of material removed by a coated abrasive from the workpiece, per unit of time.

Deburring Act of removing burrs from metal.

Dressing Restoring the working face of a contact wheel or platen to its original configuration.

Dry Grinding Refers to any coated abrasive grinding operation that does not employ a coolant or lubricant in the grinding process.

Dulling The wearing away of the cutting edges of abrasive grains through use. It occurs to some degree during any abrasive operation and will finally result in inefficient cutting or abrading, at which time the coated abrasive should be discarded or shifted to lighter work, regardless of their appearance.

Feed Lines Undesirable pattern on the work produced by grinding. Most commonly found as a spiral pattern on centerless, cylindrical and roll grinding. Usually caused by incorrect grinding procedure or alignment.

Ferrous Any metal alloy containing iron, usually in major amount.

Fibre (Backing) A very hard, strong, coated abrasive backing material consisting of multiple plies of impregnated paper. Used primarily for disc products.

Flashing A fin of excess metal along the mold joint line of a casting. Occurring between mating die faces of a forging or expelled from a joint in resistance welding.

Glazing Formation of a layer of the material being ground over the cutting edges of abrasive grains. It can be avoided or minimized by proper selection of abrasive, contact wheels, use of fluids or greases, or changing belt speeds.

Grinding Aid The generic term covering coolants and lubricants applied to coated abrasives to improve cut, finish, and durability by reducing heat and loading. May be water, various oils (in emulsion or straight), or greases in stick form.

Grit Designation of abrasive grain size, reflecting the number of the smallest openings per linear inch in the screen through which the grain will pass.

Loading Filling of the spaces between abrasive grains on a coated abrasive product with grinding swarf, resulting in a decrease in stock removal and rate of cut. Loading can be reduced in many operations by using an open coat product construction or a lubricant.

Mandrel A metal rod or support used to mount cartridge rolls, cross and square pads, disc sets, or loose pieces of coated abrasives to be held in the chuck of a grinder for grinding and polishing.

Non-Ferrous Any metal other than iron, nickel, cobalt and their alloys.

Open Coat A coated abrasive product in which the abrasive grain covers approximately 50% to 70% of the coat side surface.

Orange Peel A pattern or condition on some metal and painted surfaces similar in appearance to the pattern on the skin of an orange. It must be removed by adequate sanding or polishing to produce a perfect finish.

"P" Grade Products graded to the F.E.P.A. ("Federation of European Producers of Abrasives") system may have the letter "P" prior to the grit designation, e.g., P240, P36

PSA (Pressure Sensitive Adhesive) An adhesive applied to the backing of coated abrasive products which permits easy product application and removal to and from a backup pad.

Resin A synthetic adhesive used as a bonding agent or coat for coated abrasive products.

RPM Revolutions per minute.

SFPM Surface Feet per Minute.

Silicon Carbide A manufactured abrasive made from coke and silica sand (SiC).

Snagging Grinding the gates, fins, and sprues from castings.

Swarf The mixture of workpiece residue and abrasive particles with grinding aid (water, oil) created by abrading action.

Truing

1. The procedure used to restore a flat surface to a worn contact wheel or platen.
2. Dressing a contact roll or wheel to make its surface run concentric with the axis.

Waterproof Abrasive A coated abrasive which will withstand grinding with water or water soluble oil as a grinding aid.

Wet Grinding A term used to describe full flood oil grinding and full flood water soluble methods. All methods other than absolutely dry are included.

Work Rest Blade Angle Angle at which the work rest blade meets the workpiece 20° to 30° angle is customary.

Zirconia A manufactured self sharpening abrasive grain that is effective on a variety of materials and applications.

CHOOSING THE RIGHT CUT OFF / GRINDING WHEEL

General Working and Safety Precautions

- Clearly laid-out and correct storage of wheels dry, at 20°C room temperature.
- Only works with corresponding protective clothing like goggles, gloves, work shoes with steel toes, hearing protection and a dust mask.
- Only secure cut off and roughing wheels with original clamping flanges provided for this purpose. Do not use defective or worn flanges.
- Only carry out cutting and roughing work with a corresponding guard.
- The use of damaged wheels increases the risk of an accident.
- Only process undamaged wheels. The permissible circumferential speed may not be exceeded.
- Do not mount worn wheels on smaller machines.

Special Working and Safety Precautions

Cutting:

- Cut off wheels are not permissible for rough grinding.
- Do not jam wheels in cut. Increased risk of breakage!
- A slight pendulum movement in the cut causes the wheel to be cut free.
- Ensure proper contact pressure. The machines own weight is generally sufficient!
- Ensure proper clamping of workpiece.
- Always clamp cut off wheels (straight version) with metal ring toward machine.
- Attention: With cut off wheels with a thickness of 1.0 mm, it must be checked whether the flange mounting of the angle grinder is suitable for the 1.0 mm wheel. Otherwise firm seating of the wheel must be ensured with the cardboard rings provided for this purpose.

Roughing:

- For free-handed grinding.
- Ensure the proper contact angle of the roughing wheel. A contact angle which is too flat will cause the wheel to break out around the edge.

| Applications | |
|----------------------------------|--|
| Materials | Material Designations |
| Steel 670, 669, 664 | General construction steel High-strength construction steel Structural steel Tool steel Hardened steel |
| NF metals/Aluminum 664, 670 | Aluminum Aluminum alloys Copper Brass Bronze Other lubricating non-ferrous metals |
| Stainless steel 664, 665, 670 | Stainless steel sheets Non-alloyed stainless steel Alloyed and high-alloy steel Rust and acid-proof steels Chrome-nickel steel |
| Stone 670 | Natural stone Artificial stone Chalky sandstone Concrete/reinforced concrete |

| Material | Würth prefix | | | | | | | | |
|------------------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | 664 | 669 | 670 | 664 | 670 | 664 | 665 | 670 | 670 |
| General Construction Steel | A+ | A+ | A+ | | | | | | |
| High-Strength Steel | A+ | A+ | A+ | | | | | | |
| Structural Steel | A+ | A+ | A+ | | | | | | |
| Tool Steel | A+ | A+ | A+ | | | | | | |
| Hardened Steel | A+ | A+ | A+ | | | | | | |
| Aluminum | | | | A+ | A+ | | | | |
| Aluminum Alloys | | | | A+ | A+ | | | | |
| Copper | | | | A+ | A+ | | | | |
| Brass | | | | A+ | A+ | | | | |
| Bronze | | | | A+ | A+ | | | | |
| Other Non-Ferrous Metals | | | | A+ | A+ | | | | |
| Stainless Steel Sheets | | | | | | A+ | A+ | A+ | |
| Non-Alloyed Stainless Steel | | | | | | A+ | A+ | A+ | |
| Alloyed and High-Alloy Steel | | | | | | A+ | A+ | A+ | |
| Rust and Acid Proof Steels | | | | | | A+ | A+ | A+ | |
| Chrome-Nickel Steel | | | | | | A+ | A+ | A+ | |
| Natural Stone | | | | | | | | | A+ |
| Artificial Stone | | | | | | | | | A+ |
| Chalky Sandstone | | | | | | | | | A+ |
| Concrete | | | | | | | | | A+ |

| |
|----------------------|
| Steel |
| Non-Ferrous/Aluminum |
| Stainless Steel |
| Stone |

| | |
|-----|---------------|
| 664 | Speed |
| 665 | Speed Ceramic |
| 669 | Roughing |
| 670 | Long life |

HOW TO CHOOSE THE RIGHT COATED ABRASIVE

| Material / Application | Disc Type (Grain) | | | |
|------------------------|-------------------|----------------|---------|---------------------------|
| | Zirconia | Aluminum Oxide | Ceramic | Lubricated Aluminum Oxide |
| Steel | Red | Red | Red | Grey |
| Stainless Steel | Grey | Grey | Red | Black |
| Specialty Alloys | Red | Grey | Red | Black |
| Carbon Steel | Red | Grey | Red | Black |
| Wrought Iron | Red | Red | Grey | Black |
| Titanium | Grey | Grey | Grey | Red |
| Aluminum | Grey | Grey | Black | Red |
| Brass | Grey | Grey | Black | Red |
| Bronze | Grey | Grey | Black | Red |
| Lead | Grey | Grey | Black | Red |
| Fibreglass | Red | Grey | Black | Black |

| |
|------------------------|
| Best |
| Very Good |
| Not Recommended |

Zirconia (Blue Grain)

This grain is made from a percentage of aluminum oxide and zirconium oxide. The combination results in a tough, durable abrasive that works well in rough grinding applications, on a broad range of steels and steel alloys. Provides a cool cut for high stock removal.

*Try our: Premium Zirconia Resin Fibre Discs - Prefix 580.01

Zebra Flap Discs, Zebra Mini Flap Discs and Zebra Flexi-Discs - Prefix 578

Aluminum Oxide (Brown Grain)

This synthetic material is the toughest of the grains and its toughness gives long life while its sharpness delivers a fast cut. Aluminum oxide has the greatest variety of uses among the coated abrasive minerals. It is usually the abrasive chosen for grinding carbon steel, alloy steel, high speed steel, malleable iron, wrought iron, and similar metals.

*Try our: Premium Aluminum Oxide Resin Fibre Discs - Prefix 580.1

Mini Resin Fibre Discs - Prefix 585

Ceramic (Red Grain)

This high-purity grain is an abrasive with the ability to fracture at a controlled rate, constantly creating thousands of new cutting points. Otherwise known as 'self-sharpening'. It is exceptionally hard and strong, and primarily used for precision grinding in demanding applications on steels and alloys that are the most difficult to grind.

*Try our: Premium Ceramic Coated Metal Discs - Prefix 579

Ceramic Mini Resin Fibre Discs - Prefix 585

Lubricated Aluminum Oxide (Brown-Waxed)

The use of grinding additives in this disc acts as a lubricant that resists disc loading. The disc disperses lubricants as it heats and grinds, which sheds the metal particles away from the disc. Traditionally designed for the fabrication industry for use on soft metals like bronze, brass and aluminum.

*Try our: Soft Metal Resin Fibre Discs - Prefix 580.4

CERAMIC SPEED-X GRINDING WHEEL



Steel
Stainless Steel



Roughing wheel with special multi-layer structure for high material removal and long service life.

Applications:

Suited for machining steel and stainless steel. Grinding edges, surfaces, hard weld seams, removing flash etc. (Also suitable for Aluminum/Non Ferrous applications)

Note: Outlasts Traditional Grinding Discs 5 to 1!!

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|-------------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 1/4" | 6.0 | 7/8" | 22,23 | Depressed Center | 13,300 | 664.181156 | 25 |
| 5" | 125 | | | | | | 12,200 | 664.181256 | |
| 7" | 180 | | | | | | 8,500 | 664.181806 | |

Characteristics

Free of iron, chlorine and sulphur ($\leq 0.1\%$). Suitable for KWU Class II (e.g. pipeline and reactor construction).

Benefits:

Black fine-grained layer - Support layer

- Behaves like a support plate for the coarse-grained layer
- Increased safety during grinding
- No fraying of the wheel
- Wheel grinds down evenly
- Excellent vibration damping
- Prevents "white-finger disease"
- Easy on machines

Red coarse-grained layer

- High grind-off with low application of force
- Very cool grinding (no material discolouration)
- Very clean grinding pattern
- No clogging of wheel

Special fleece middle woven fabric

- Increased safety as a result of strong grain adhesion
- The combination of both a coarse and fine grain layer means that the grinding pattern can be changed depending on the angle.



Black: Fine-grained layer

Red: Coarse-grained layer

ZEBRA GRINDING WHEELS



Stainless Steel

LONG LIFE

Long Life Grinding Wheel

- Iron, chlorine and sulphur free
- Meets KWU class II

Applications:

- Rough edges, deburring, weld seam preparation, etc.

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 1/4" | 7.0 | 7/8" | 22.23 | Depressed Center | 13,300 | 670.181157 | 5 |
| 5" | 125 | | | | | | 12,200 | | |



Steel

SPEED

Speed Grinding Wheel

Applications:

- Rough edges, deburring, weld seam preparation, etc.

Features:

- Synthetic bond, fibre-reinforced construction provides superior grinding properties, exceptional service life and drastically reduces disc failure
- Engineered to meet minimal measurement and imbalance tolerance thus eliminating excessive vibration and disc chatter
- Designed for use with electric and pneumatic angle grinders
- Maximum spherical speed 80 m/s
- Discs meet the strict safety requirements of the European standard (EN 12413) as well as the OSA (Organization for the Safety of Abrasives)

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-----|------------------|----------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 2 3/8" | 60 | 1/4" | 6.0 | 1/4" | 6.0 | Flat | 25,000 | 664.160606 | 10 |
| 4 1/2" | 115 | 5/32" | 4.0 | 7/8" | 22 | Depressed Center | 13,300 | 664.161154 | |
| | | 1/4" | 7.0 | | | | | 664.161157 | |
| 5" | 125 | 5/32" | 4.0 | 7/8" | 22 | Depressed Center | 12,200 | 664.161254 | 10 |
| | | | 7.0 | | | | | 664.161257 | |
| 6" | 150 | 1/4" | 6.0 | 7/8" | 22 | Depressed Center | 10,000 | 669.060614 | 10 |
| 7" | 180 | | 7.0 | | | | | 8,500 | |

ZEBRA GRINDING WHEELS



Steel

LONGLIFE

Long Life Grinding Wheel

Applications:

- Rough edges, deburring, weld seam preparation, etc.

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|----|----------------------|------------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 5/32" | 4.0 | 7/8" | 22 | Depressed Center | 13,300 | 670.161154 | 5 |
| | | 1/4" | 7.0 | | | | | 670.161157 | |
| 5" | 125 | 5/16" | 8.0 | | | | | 670.161257 | |
| 7" | 180 | | | | | 8,500 | 670.161808 | | |

GRINDING DISC



Steel

LONGLIFE

Applications:

- Rough edges, deburring, weld seam preparation, etc.

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 5/32" | 4.0 | 7/8" | 22.23 | Depressed Center | 13,300 | 669.161256 | 25 |

ZEBRA GRINDING WHEELS

Aluminum / Non Ferrous



SPEED

Speed Grinding wheel

- A blend of additives combined with an open grain structure provides clog-free grinding on aluminum, soft bronze, brass and non-ferrous metals.
- Resists loading of soft metals

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 5" | 125 | 1/4" | 6.4 | 7/8" | 22.23 | Depressed Center | 12,200 | 669.020514 | 10 |

Aluminum/Non Ferrous



LONG LIFE

Long Life Grinding Wheel

- An all-round harder disc
- Particularly long service life combined with good metal-removing properties
- Resists loading of soft metals

Applications:

- For the rough truing of cast-ons, casting skin and edges, preparing weld seams, etc.; also good for grinding brass

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 5/32" | 4.0 | 7/8" | 22.23 | Depressed Center | 13,300 | 670.171157 | 5 |
| 5" | 125 | 1/4" | 7.0 | | | | 12,200 | 670.171257 | |

PIPELINE PRO GRINDING WHEEL



Premium quality triple reinforced grinding wheel.

Applications:

- These premium quality grinding wheels provide precise, cool and clean cutting ability on materials such as tubes, sections, metal sheets among others
- For use on stainless steel and steel

| Dimensions | Type | Art. No. | Max RPM | Certification |
|---------------------------------------|---------|-----------------|---------|---------------|
| 150 x 6 x 22.23 mm (6 x 1/4 x 7/8 in) | Type 27 | 670.1478 | 10200 | oSa |

PIPELINE PRO COMBINATION WHEEL



Premium quality triple reinforced wheel for cutting and light grinding.

Applications:

- The reinforced layers provide maximum safety during all-in-one cutting and deburring wheel usage
- For use on stainless steel and steel

| Dimensions | Type | Art. No. | Max RPM | Certification |
|--|---------|------------------|---------|---------------|
| 150 x 3.2 x 22.23 mm (6 x 1/8 x 7/8 in) | Type 27 | 670.1878 | 10200 | oSa |
| 150 x 4.0 x 22.23 mm (6 x 5/32 x 7/8 in) | Type 27 | 670.53278 | 10200 | oSa |

ZEBRA COMBI ALL-IN-ONE DISC



SPEED

Steel

Stainless Steel

Cutting, grinding and polishing! All-in-One!

Features:

- Unique 3 layered reinforcement structure
- Highly aggressive
- Thermal and physical treatment for perfect disc structure
- Especially suited for machining steel and stainless steel, as well as some non-ferrous metals.

Applications:

- Metal machining and processing, steel construction, window and door construction
- On-site maintenance and repair
- Weld seam preparation and removal, general roughing, cleaning and finishing

Benefits:

- Cutting, grinding and polishing with a single product
- No more time loss due to machine or product change over
- The fine grit provides an excellent and uniform finish
- Low vibration
- Free of iron, sulphur and chlorine
- Low cutting temperature due to special fillers

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|-------------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 3/32" | 2.2 | 7/8" | 22.23 | Depressed Center | 13,300 | 665.131152 | 25 |
| 5" | 125 | | | | | | 12,200 | | |

RONDELLER GRINDING WHEELS



Aluminum/Non Ferrous metals

Stainless Steel

Steel

For use on all metals including non-ferrous!

Applications:

- Used for rough, medium and fine surface grinding, on all metals (ferrous and non-ferrous). Eg: mild and carbon steels, tool steels, stainless steels, aluminum, bronze, brass

Feature:

- No clogging
- Extended service life
- The patented construction and use of high-quality reinforcing guarantee high resistance to breaking
- Increased heat disbursement and operating noise level

| Diameter | | Thickness | | Arbor hole | | Design | Grit | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|------|-------------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 5" | 125 | 5/32" | 4.0 | 7/8" | 22.23 | Depressed Center | 60 | 665.012560 | 5 |
| 7" | 178 | | | | | | 36 | | |

'XTREME CUT' CUT OFF DISC



Features:

| | |
|-----------------------------|------|
| Service life: | ●●●● |
| Cutting ability: | ●●●● |
| Handling/User-friendliness: | ●●●● |
| Cut quality: | ●●●○ |
| Versatility: | ●●●○ |



Applications:

Especially suitable for machining steel and stainless steel. Cuts thick and thin materials: Pipes, profiles, solid materials, flat materials, cables, plastics, composite materials, etc.

Stainless Steel

Steel

The high-tech cutting disc with extreme cutting ability and high safety margin.

- Significantly cleaner and easier cutting due to rough side surfaces. As a result, no kick-back effect or disc jamming, even in extreme applications.
- Minimal burr formation
- Considerable less strain on the user from vibrations, cutting noise and flying sparks.
- Very high safety margin exceeds the safety requirements of the applicable standards due to its highly tear proof special woven fabric and innovative product composition.
- Free of iron, chlorine and sulfur: ≤ 0.1%

| Diameter | | Thickness | | Arbor Hole | | Design | Max. RPM | Art No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|--------|----------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 3/64" | 1.0 | 7/8" | 22.23 | Flat | 13,300 | 664.631150 | 25 |
| 5" | 125 | 3/64" | 1.0 | | | | 12,250 | 664.631250 | |
| 4 1/2" | 115 | 0.045" | 1.3 | | | | 13,300 | 664.631153 | |
| 5" | 125 | 0.045" | 1.3 | | | | 12,250 | 664.631253 | |

PIPELINE PRO CUT OFF DISC



Top quality cut-off wheel.

Applications:

- These wheels perform at maximum on both, steel and stainless steel, as well as on cast iron. Its main application is for maintenance, metal carpentry, construction, pipelines for gas and oil, shipyards, auto body works, metal construction, tanks among others.
- For use on stainless steel and steel

| Dimensions | Type | Art. No. | Max RPM | Certification |
|--|---------|------------|---------|---------------|
| 150 x 1.6 x 22.23 mm (6 x 1/16 x 7/8 in) | Type 27 | 670.64578 | 10200 | oSa |
| 150 x 1.6 x 22.23 mm (6 x 1/16 x 7/8 in) | Type 27 | 670.645781 | 10200 | oSa |

ZEBRA CUT OFF WHEELS



Stainless Steel

SPEED



Speed Cut off Wheel

Features:

- Free of iron, chlorine and sulphur (</= 0.1%)
- Suitable for pipeline and reactor construction

Applications:

Pipe cutting, ventilation ducts, sheet metal (e.g. containers, sheet metal structures), piping, steel rods, steel reinforcement, profiles and rails (in plumbing sector), cable racks and cable ducts, high-voltage cables, steel cables, laminated materials, plastics, etc.

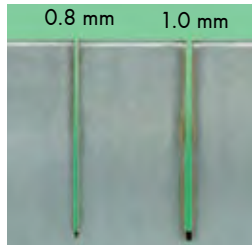
| Diameter | | Thickness | | Arbour hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|-------------|-------------------|---|-------------------|-------------------|-------------------|
| inch | mm | inch | mm | inch | mm | | | | |
| 2" | 50 | 1/32" | 1.0 | 1/4" | 6.0 | Flat  | 30,500 | 664.130501 | 10 |
| 2 3/8" | 60 | 1/32" | 1.0 | 1/4" | 6.0 | | 25,000 | 664.130601 | |
| 3" | 76 | 0.04" | 1.0 | 3/8" | 10.0 | | 20,100 | 664.130761 | 30 |
| 4" | 100 | 1/32" | 1.0 | 3/8" | 10.0 | | 15,300 | 664.131000 | |
| 4 1/2" | 115 | 1/32" | 1.0 | 7/8" | 22.23 | | 13,300 | 664.131150 | 10 |
| 4 1/2" | 115 | 1/16" | 1.6 | | | | 13,300 | 664.131151 | |
| 5" | 125 | 1/32" | 1.0 | | | | 12,200 | 664.131250 | 10 |
| 5" | 125 | 1/16" | 1.6 | | | | 12,200 | 664.131251 | |
| 7" | 180 | 1/16" | 1.6 | | | | 8,500 | 664.131801 | 25 |
| 4 1/2" | 115 | 0.031" | 0.8 | | | | 13,300 | 664.131148 | |
| 5" | 125 | 0.031" | 0.8 | | | 12,200 | 664.131248 | 25 | |
| 4 1/2" | 115 | 1/32" | 1.0 | | | 13,300 | 669.034132 | | |
| 4 1/2" | 115 | 1/16" | 1.6 | | | 13,300 | 669.034116 | 10 | |
| 5" | 125 | 0.04" | 1.0 | | | Depressed Centre  | 12,200 | | 669.035004 |
| | 125 | 1/16" | 1.6 | 12,200 | 669.035116 | | | | |
| 6" | 150 | 1/8" | 3.5 | 10,000 | 664.011252 | | | | |
| | 150 | 1/16" | 1.6 | 10,000 | 669.036116 | | | | |

Advantages of 0.8 mm disc.

Super thin: Suited for cutting thin sheets, e.g. on vehicle bodies, thin-walled pipes, profiles and other thin-walled materials of steel and stainless steel.

Super fast: Extremely fast cutting - comparatively quiet, low-sparking and with extremely low dust development.

Minimal flash: Precision cutting with minimal flash formation.



Minimal flash formation with 0.8 mm.



For comparison: Flash formation with common 1.0 mm cut off wheel.

CUT OFF WHEELS

Stainless Steel



Cut Off Wheel

Applications:

- Cutting of metal sheets, pipes, profiles, steel cables, iron reinforcements, etc.

Features:

- Free of iron, chlorine and sulphur ($\leq 0.1\%$)
- Synthetic-resin bonded, fibre-reinforced standard cut off wheel
- High resistance to breakage
- Max. circumferential speed 80 m/s
- Complies with the most demanding safety requirements of European standard EN 12413 and the OSA (Organization for the Safety of Abrasives)

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|--------|----------|-------------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 1/32" | 1.0 | 7/8" | 22.23 | Flat | 13,300 | 669.131150 | 25 |
| 5" | 125 | | | | | | 12,200 | 669.131250 | |

ZEBRA CUT OFF WHEELS



or

Steel

LONG LIFE

Long Life Cut Off wheel

Applications:

- Metal sheets, pipes, profiles, steel rope, reinforcement bar, etc.

Features:

- Thin blade design results in a quick, precise cut, while leaving a virtually burr-free edge
- High quality construction results in an extremely long service life and the highest resistance to disc failure
- Spark formation, dust, noise output and disc shatter are minimal
- Designed to cut effortlessly through thin-walled pipes, and thin-gauge sheet metal.

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|-------------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 5" | 125 | 3/32" | 2.5 | 7/8" | 22.23 | Depressed Center | 12,200 | 670.101252 | 10 |
| 7" | 180 | | | | | | 8,500 | 670.101802 | |
| 12" | 300 | 3/16" | 3.5 | 25/32" | 20.00 | Flat | 5,100 | 670.103023 | |
| 14" | 350 | 5/32" | 4.0 | | | | 5,400 | 670.103524 | |

ZEBRA CUT OFF WHEELS



Steel

Applications:

- Cutting solid materials, pipes, profiles and sheet metal.

Features:

- Synthetic-resin bonded, fibre-reinforced cut off wheel
- High resistance to breakage
- Max. circumferential speed 80 m/s
- Complies with the most demanding safety requirements of the European standard EN 12413 and the OSA (Organization for Safety of Abrasives)

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 3/32" | 2.5 | 7/8" | 22.23 | Depressed Center | 13,300 | 669.101152 | 25 |
| 5" | 125 | | | | | | 12,200 | | |



Aluminum / Non Ferrous

LONGLIFE

Long Life Cut Off Wheel

Applications:

- Metal sheets, copper pipes, extruded aluminum and more.
- Resists loading on soft metals

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 3/32" | 2.5 | 7/8" | 22.23 | Depressed Center | 13,300 | 670.121152 | 5 |
| 5" | 125 | | | | | | 12,200 | | |



Aluminum / Non Ferrous

SPEED

Speed Cut Off Wheel

Applications:

- Metal sheets, pipes, profiles, roof coverings, gutters and more.

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|--------------|----------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 5" | 125 | 1/16" | 1.6 | 7/8" | 22.23 | Centre Bombé | 12,200 | 669.025116 | 10 |

3" CUTTING DISC



Features:

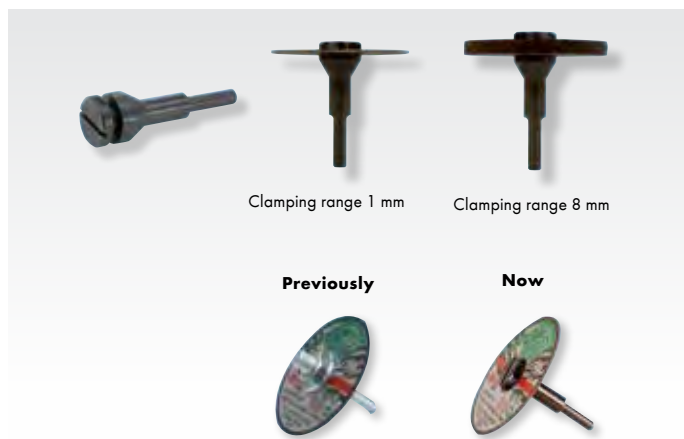
- High edge strength and extremely long service life ensures greater efficiency in daily use
- Maximum RPM - 25,000

Applications:

- Used for finishing applications, smooth cutting and burr-free finish
- Recommended for refineries and nuclear industries.

| Dia. | Thickness | Arbor Hole | Art. No. | P. Qty |
|------|-----------|------------|------------|--------|
| 3" | 1/32" | 3/8" | 669.033132 | 10 |
| | 1/16" | | 669.033116 | |
| | 1/8" | | 669.030318 | |

CLAMPING MANDRELS FOR CUT OFF AND ROUGHING WHEELS



Benefits:

- Clamping range from 0 to 8 mm
- Countersunk clamping screw
- No protruding thread sections, enabling work even in cramped spaces
- Clamping screw with large contact surface and right-hand threads (self-clamping effect)
- Reliable holding of wheels
- Clamping screw with large support surface and lengthwise slit
- Easy releasing or tightening with an open-end wrench, 17 mm, or straight-blade screwdriver

| Arbor | Shank Diameter | Total length (mm) | Art. No. | P. Qty |
|-------|----------------|-------------------|----------|--------|
| 6mm | 6 mm | 54 | 664.976 | 1 |
| 10mm | | 58 | 664.978 | |

CHOP SAW BLADES



Steel

General purpose, fast cutting

- Designed for a fast cut.
- Designed to avoid glazing on hard materials.
- Ideal for a wide variety of shapes and thicknesses.

| Dimensions inch | Dimensions mm | RPM | Art. No. | P. Qty |
|--------------------|-----------------------|-------|-------------------|--------|
| 12" x 3/32" x 1" | 305 x 2.5 x 25.4 mm | 5,100 | 669.031232 | 2 |
| 14" x 3/32" x 1" | 355.5 x 2.5 x 25.4 mm | 4,400 | 669.031433 | 10 |
| 16" x 3/32" x 1" | 406.5 x 2.5 x 25.4 mm | 3,800 | 670.08010 | 10 |
| 14" x 1/8" x 3/4" | 350 x 4 x 20 mm | 5500 | 669.031418 | 5 |

Stainless Steel

Applications:

- Ferrous metals, light or heavy structural steels and solids.

Steel

General purpose, long life

- Designed for use on low-powered chop saws.

| Dimensions inch | Dimensions mm | RPM | Art. No. | P. Qty |
|--------------------|-----------------------|-------|------------------|--------|
| 14" x 7/64" x 1" | 355.5 x 2.8 x 25.4 mm | 4,400 | 670.07080 | 2 |
| 16" x 3/32" x 1" | 406.5 x 2.5 x 25.4 mm | 3,800 | 670.08015 | 10 |

Stainless Steel

Applications:

- Ferrous metals, light structural steels, thin wall tubing and small solids.

CHOP SAW BLADES



Steel

Extra long life - for metal studs

General purpose, extra long life

- Designed to cut metal studs used in construction.
- The mixture of abrasive grains provides long life and cool cutting to outlast other wheels used for the same application.

Applications:

- Metal studs, light ferrous metals, light structural steels, thin rebar, light gauge metal.

| Dimensions inch | Dimensions mm | RPM | Art. No. | P. Qty |
|--------------------|-----------------------|-------|-------------------|--------|
| 14" x 3/32" x 1" | 355.5 x 2.5 x 25.4 mm | 4,400 | 669.031432 | 5 |

GRINDING STONES



Features:

- Ceramically bound
- Type A, straight
- Tool grinding machines or other stationary grinding machines
- For general purpose grinding of steel, iron, forging grade steel, and more

Note: Do not exceed 2,000 RPM. if tool is used above 2,000 RPM, personal injury or surface damage may occur.

| Diameter | Thickness | Arbor hole | Grit | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----------|------------|------|--------|----------|------------|--------|
| 8" | 3/4" | 1" | 36 | Flat | 2,000 | 679.203036 | 1 |
| | | | 60 | | | 679.203060 | |

ADAPTOR SLEEVES



- Grinding stone reducing bushing
- Made of plastic

| Outer Dia. | Inner Dia. (inch equiv.) | Inner Dia. (mm) | Art. No. | P. Qty |
|------------------|--------------------------|-----------------|-----------|--------|
| 1-1/4" (32mm) | 15/32" | 12mm | 679.03212 | 2 |
| | 5/8" | 16mm | 679.03216 | |

CERAMIC PLUS RESIN FIBRE DISCS



Innovative grain technology that results in sharper grain edges and higher stock removal on high alloyed steels and stainless steel.

Features:

- Aggressive self-sharpening grain
- Microcrystals that produce sharper grain edges

Advantages:

- Long service life
- High removal rate
- Low contact pressure required
- Cool sanding

Applications:

- Stainless steel
- Steel
- Aluminum
- Rust resistant, acid resistant and heat resistant high alloyed steels



| Diameter x Arbor Hole | Grit | Max RPM | Art. No. | P. Qty. |
|-------------------------|------|---------|-------------------|---------|
| 4-1/2" x 7/8" | 36 | 13,330 | 580.911536 | 25 |
| | 60 | | 580.911560 | |
| | 80 | | 580.911580 | |
| | 120 | | 580.911512 | |
| 5" x 7/8" | 36 | 12,250 | 580.912536 | |
| | 60 | | 580.912560 | |
| | 80 | | 580.912580 | |
| | 120 | | 580.912512 | |
| 6" x 7/8" *NEW!* | 36 | 10,200 | 580.916636 | |
| | 60 | | 580.916660 | |
| | 80 | | 580.916680 | |
| 7" x 7/8" | 36 | 8,500 | 580.917836 | |
| | 60 | | 580.917860 | |
| | 80 | | 580.917880 | |
| | 120 | | 580.917812 | |

PREMIUM CERAMIC COATED RESIN FIBRE DISCS



Works on the hardest metals

- Developed especially for use on stainless steel and other alloys
- Provides higher cut rates and cooler grinding temperatures

Features:

- Heat treated, blue fired, aluminum oxide and ceramic grain
- Custom blended grinding aid
- Synthetic wax

Applications:

- Stainless Steel 300 Series
- Carbon Steel
- Exotic Alloys
- Titanium

Benefits:

- Fast cut
- Works on the hardest metals
- Longer life, anti-glazing, anti-loading, cool grinding product

| Diameter x Arbor Hole | Grit | Art. No. | P. Qty. |
|-----------------------|------|--------------------|---------|
| 4 1/2" x 7/8" | 24 | 579.412.024 | 25 |
| | 36 | 579.412.036 | |
| | 80 | 579.412.080 | |
| 5" x 7/8" | 24 | 579.5..024 | |
| | 36 | 579.5..036 | |
| | 50 | 579.5..050 | |
| | 60 | 579.5..060 | |
| | 80 | 579.5..080 | |
| 7" x 7/8" | 24 | 579.7..024 | |
| | 36 | 579.7..036 | |

Note: For best results use with Art. No. 586 Air Cooled Backing Pads

PREMIUM ZIRCONIA RESIN FIBRE DISCS



| Diameter x Arbor Hole | Grit | Art. No. | P. Qty |
|-----------------------|------|------------|--------|
| 4 1/2" x 7/8" | 24 | 580.011524 | 25 |
| | 36 | 580.011536 | |
| | 60 | 580.011560 | |
| | 80 | 580.011580 | |
| 5" x 7/8" | 24 | 580.012524 | |
| | 36 | 580.012536 | |
| | 60 | 580.012560 | |
| | 80 | 580.012580 | |
| 7" x 7/8" | 24 | 580.018024 | |
| | 36 | 580.018036 | |
| | 60 | 580.018060 | |

High quality, multi layer, heavy duty vulcanized fibre discs

Features:

- Covered with a **resin bond coating** specially formulated to resist loading, glazing and grain stripping
- The bond coat is then covered with specially processed mineral abrasive grains formulated for toughness, sharpness and bond
- Outstanding cutting rates and maximum service life
- Especially suitable for stainless steel
- Powerful, versatile, flexible, safe and economical
- Most cost effective when used in high production applications where cutting rates are monitored

Applications:

- Stock removal (welds, protrusions)
- Finishing and blending
- Varying work piece substrates
- Flat surfaces
- Contour surfaces
- Stainless - Cobalt Titanium
- General purpose grinding ferrous and non-ferrous metals, fibreglass, wood

Note: For best results use with Art. No. 586 Air Cooled Backing Pads

PREMIUM ALUMINUM OXIDE RESIN FIBRE DISCS



| Diameter x Arbor Hole | Grit | Art. No. | P. Qty |
|-----------------------|------|------------|--------|
| 4 1/2" x 7/8" | 24 | 580.11524 | 25 |
| | 36 | 580.11536 | |
| | 40 | 580.11540 | |
| | 60 | 580.11560 | |
| | 80 | 580.11580 | |
| 5" x 7/8" | 24 | 580.12524 | |
| | 36 | 580.12536 | |
| | 50 | 580.12550 | |
| | 60 | 580.12560 | |
| | 80 | 580.12580 | |
| | 120 | 580.125120 | |
| 7" x 7/8" | 24 | 580.18024 | |
| | 36 | 580.18036 | |

High quality, multi layer, heavy duty vulcanized fibre discs

Features:

- Covered with a **resin bond coating** specially formulated to resist loading, glazing and grain stripping
- The bond coat is then covered with specially processed mineral abrasive grains formulated for toughness, sharpness and bond
- A blend of advanced abrasive alloys and bonding agents delivers superior cutting rates and longer service life
- No breaking or tearing at the edges during grinding
- Provides optimal value when used in high stock removal applications and where cool cutting action is required

Applications:

- Stock removal (welds, protrusions)
- Finishing and blending
- Varying work piece substrates
- Flat surfaces
- Contour surfaces

Note: For best results use with Art. No. 586 Air Cooled Backing Pads

SOFT METAL RESIN FIBRE DISCS



Waxed disc provides optimum lubrication and loading resistance

Features:

- Wax coating prevents the disc from loading
- Long life discs as a result of loading resistance
- Grinds soft metals quickly
- Reduces heat at the contact point
- Removes larger media chips
- Lubricates as they grind
- Resist loading
- Greater longevity
- Outlast conventional aluminum oxide discs
- RPM: 13,000 (4.5") and 12,000 (5")

Applications:

Soft Metals with lower melting temperatures including:

- Aluminum
- Bronze
- Brass
- Copper
- Lead

Advantages:

- Reduces the number of discs used
- Longer working life of disc
- Less down time
- Faster cut rates and better surface finish
- Resists loading

| Diameter x Arbor Hole | Grit | Art. No. | P. Qty |
|-----------------------|------|-------------|--------|
| 4 1/2" x 7/8" | 36 | 580.412.036 | 25 |
| | 80 | 580.412.080 | |
| 5" x 7/8" | 36 | 580.5..036 | |
| | 50 | 580.5..050* | |
| | 60 | 580.5..060* | |
| | 80 | 580.5..080 | |

*Available OnDemand

Note: For best results use with Art. No. 586 Air Cooled Backing Pads

BACKING PADS – AIR COOLED FOR RESIN FIBRE DISCS



- Air Cooled
- Easy to assemble
- Max. RPM: 13,000
- Cools the disc while grinding

| Size | Art. No. | P. Qty |
|--------|----------|--------|
| 4 1/2" | 586.7004 | 1 |
| 5" | 586.7005 | |
| 7" | 586.7007 | |

CENTRE NUT FOR RESIN FIBRE DISCS



Art. No. 715.58 Qty: 1

- 5/8" - 11 centre locking nut for use with Air Cooled Backing Pads

TRIM-CUT GRINDING DISCS – ALUMINUM OXIDE



| Size / Grit | Art. No. | P.Qty |
|---------------------------|-----------------|-------|
| 3" Disc- Coarse (36 Grit) | 585.936 | 10 |
| 3" Disc- Medium (60 Grit) | 585.960 | |
| 1/4" Mandrel | 715.5859 | 1 |

*Each box contains one 1/4" mandrel

Note: Rated up to 28,000 RPM

Patented Reverse Thread and Trimmable Technology



Grind



Trim



Reverse Thread
(For hard to reach places)

Features:

- Patented one-piece molded plastic grinding discs
- Insulated against heat build up allowing cooler high-speed grinding
- Can be repeatedly trimmed right down to the arbour
- Cost effective and time effective
- Reverse thread for hard to reach areas

Applications:

- Ideal for rust and paint as well as general auto body work. A great performance disc on plastic, fiberglass and composites
- Ideal for removing rust and paint, gaskets and adhesives
- Excellent for smoothing hardened alloy welds, grinding stainless steel, titanium, and non ferrous metal.

Grinding and removal of:

- Welds
- Body Filler
- Fibreglass
- Sheet metal burrs
- Paint
- Wood
- Plastic
- Rust

CERAMIC PLUS - MINI RESIN FIBRE DISCS



Innovative grain technology that results in sharper grain edges & higher stock removal on high alloyed steels and stainless steel



Compatible with 3M Roloc™ System

Features:

- Aggressive self-sharpening grain
- Microcrystals that produce sharper grain edges

Advantages:

- High removal rate
- Long service life
- Low contact pressure required
- Cool grinding

Applications:

- Stainless steel
- Steel
- Aluminum
- Rust resistant, acid resistant and heat resistant high alloyed steels

| Diameter × Arbor Hole | Grit | Art. No. | P. Qty. |
|-----------------------|------|------------------|---------|
| 2" | 24 | 585.91224 | 25 |
| | 40 | 585.91240 | |
| | 60 | 585.91260 | |
| | 80 | 585.91280 | |
| 3" | 24 | 585.91324 | |
| | 40 | 585.91340 | |
| | 60 | 585.91360 | |
| | 80 | 585.91380 | |

PREMIUM CERAMIC – MINI RESIN FIBRE DISCS



Compatible with 3M Roloc™ System

Features:

- 100% ceramic grain with top coat (grinding aid)
- Superior life and fast cut
- Excellent for rapid stock removal on stainless steel and tough alloys
- Perfect for deburring, weld removal, corrosion and oxidation removal

Applications

GOOD Cast Iron

BETTER Mild Steel

BEST Stainless Steel, Titanium, Inconel

Note: Use with Type 'R' Mandrel Art. No. 585.41 and Art. No. 585.43

| Diameter | Grit | Art. No. | P. Qty |
|----------|----------|----------|--------|
| 2" | 24 | 585.7210 | 50 |
| | 36 | 585.7215 | |
| | 40 | 585.7220 | |
| | 50 | 585.7225 | |
| | 60 | 585.7230 | |
| | 80 | 585.7235 | |
| | 100 | 585.7240 | |
| 3" | 120 | 585.7245 | 25 |
| | 24 | 585.8210 | |
| | 36 | 585.8215 | |
| | 40 | 585.8220 | |
| | 50 | 585.8225 | |
| | 60 | 585.8230 | |
| | 80 | 585.8235 | |
| 100 | 585.8240 | | |
| | 120 | 585.8245 | |

ZEE SUPREME – MINI RESIN FIBRE DISCS



Compatible with 3M Roloc™ System

Features:

- 100% zirconia with top coat (grinding aid)
- Superior life and fast cut
- Lubricated for cool grinding
- Excellent for rapid stock removal on carbon steel
- Great for removing sharp edges and burrs

Applications

GOOD Bronze, Brass, Aluminum

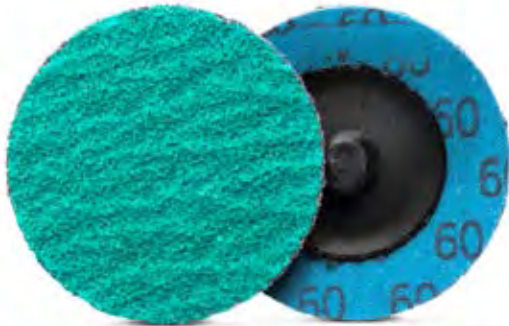
BETTER Mild Steel, Cast Iron

BEST Stainless Steel, Titanium, Inconel

Note: Use with Type 'R' Mandrel Art. No. 585.41 and Art. No. 585.43

| Diameter | Grit | Art. No. | P. Qty |
|----------|------|----------|--------|
| 2" | 24 | 585.2210 | 50 |
| | 36 | 585.2215 | |
| | 50 | 585.2225 | |
| | 60 | 585.2230 | |
| | 80 | 585.2235 | |
| | 100 | 585.2240 | |
| | 120 | 585.2245 | |
| 3" | 24 | 585.2310 | 25 |
| | 36 | 585.2315 | |
| | 50 | 585.2325 | |
| | 60 | 585.2330 | |
| | 80 | 585.2335 | |
| | 100 | 585.2340 | |
| | 120 | 585.2345 | |

GREEN POWER ZIRCONIA – MINI CLOTH DISCS



Compatible with 3M Roloc™ System

Applications

GOOD Bronze, Brass, Aluminum

BETTER Mild Steel, Cast Iron

BEST Titanium, High Nickel Alloys

Features

- 100% zirconia with top coat (grinding aid)
- Cloth backing allows flexibility when used on a contoured surface
- Superior life and fast cut
- Excellent for rapid stock removal on carbon steel
- Great performance on light gauged sheet metal
- Flexibility reduces gouging of metal resulting in a finer finish

| Diameter | Grit | Art. No. | P. Qty |
|----------|------|------------|--------|
| 2" | 36 | 585.598422 | 25 |
| | 50 | 585.598424 | |
| | 60 | 585.598425 | |
| | 80 | 585.598426 | |
| | 120 | 585.598428 | |
| 3" | 36 | 585.598522 | 25 |
| | 50 | 585.598524 | |
| | 60 | 585.598525 | |
| | 80 | 585.598526 | |
| | 120 | 585.598528 | |

Note: Use with Type 'R' Mandrel Art. No. 585.41 and Art. No. 585.43

PREMIUM ALUMINUM OXIDE – MINI RESIN FIBRE DISCS



Compatible with 3M Roloc™ System

Applications

GOOD Wood, Ferrous Metals

BETTER Aluminum, Copper, Brass

BEST Carbon Steel, Cast Iron

Benefits:

- Type-R hub is made from the highest quality virgin plastic
- The fibre backing creates stiff, strong support for a more aggressive and faster cut
- Fits all existing Type 'R' style backing pads

| Diameter | Grit | Art. No. | P. Qty |
|----------|------|-----------|--------|
| 2" | 24 | 585.6224 | 50 |
| | 36 | 585.6236 | |
| | 50 | 585.6250 | |
| | 120 | 585.62120 | |
| 3" | 24 | 585.6324 | 25 |
| | 36 | 585.6336 | |
| | 50 | 585.6350 | |
| | 120 | 585.6399 | |

Note: Use with Type 'R' Mandrel Art. No. 585.41 and Art. No. 585.43

ALUMAX – MINI RESIN FIBRE DISCS



Compatible with 3M Roloc™ System

Features:

- 100% ceramic grain with top coat (grinding aid)
- Cool cut with anti-loading agent for soft metals
- Superior life
- A premium product for aluminum, brass, copper etc.
- Rapid stock removal
- Drastically reduced aluminum galling due to anti-loading

Applications

GOOD Fibreglass, Composites

BETTER Copper, Brass

BEST Aluminum

Note: Use with Type 'R' Mandrel Art. No. 585.41 and Art. No. 585.43

| Diameter | Grit | Art. No. | P. Qty |
|----------|------|----------|--------|
| 2" | 24 | 585.3210 | 50 |
| | 36 | 585.3215 | |
| | 50 | 585.3225 | |
| | 60 | 585.3230 | |
| | 80 | 585.3235 | |
| | 100 | 585.3240 | |
| 3" | 120 | 585.3245 | 25 |
| | 24 | 585.3310 | |
| | 36 | 585.3315 | |
| | 50 | 585.3325 | |
| | 60 | 585.3330 | |
| | 80 | 585.3335 | |
| | 100 | 585.3340 | |
| | 120 | 585.3345 | |

SURFACE CONDITIONING DISCS



Benefits:

- More flexible than a fibre sanding disc; less likely to gouge metal
- Open construction of disc material allows dust to work through the disc and away from the surface
- Disc is much quieter during use than a fibre disc
- Will remove sharp edges and spot welds
- Much easier to control

| Diameter | | Type | Colour | Max. RPM | Art. No. | P. Qty |
|----------|-----|--------|--------|----------|----------|--------|
| Inches | mm | | | | | |
| 5" | 125 | Coarse | Brown | 20,000 | 585.4510 | 10 |
| | | Medium | Maroon | | 585.4520 | |
| | | Fine | Blue | | 585.4530 | |

Applications: Ideally suited for machining stainless steel, steel, brass, copper, paint and rust removal.

Note: Use with backing pad Art. No. 586.7005

Coarse

GOOD Heavy stock removal

BETTER Scale Removal

BEST Heavy Deburring

Medium

GOOD Light deburring

BETTER Cleaning

BEST Blending, Finishing

Fine

GOOD Blending

BETTER Finishing

BEST Cleaning

MINI SURFACING CONDITIONING DISCS - TYPE 'R'



Compatible with 3M Roloc™ System

Features:

- Removes old paint and coatings supplying a smooth, uniform surface
- Removes coarse grind lines, milling marks and micro burrs
- Removes light rust
- Minimizes undercutting and gouging, will not disturb critical tolerances
- Removes old gasket adhesives
- Cleans or deburrs hard to reach areas.
- Silicone free

Recommendations:

- Always wear protective eye wear when operating surface discs (**Prefix 899**)

| Diameter | Type | Colour | Max. RPM | Art. No. | P. Qty |
|----------|--------------|--------|-----------------|------------------|--------|
| 2" | Heavy Duty | Brown | 23,000 | 585.42099 | 50 |
| | Extra Coarse | Brown | | 585.4209 | |
| | Coarse | Brown | | 585.4210 | |
| | Medium | Maroon | 20,000 | 585.4211 | |
| | Fine | Blue | 23,000 | 585.4230 | |
| 3" | Extra Fine | Grey | 15,000 | 585.4240 | 25 |
| | Coarse | Brown | | 585.4315 | |
| | Medium | Maroon | 585.4310 | | |
| | Fine | Blue | 13,000 | 585.4320 | |
| | | | | 585.4330 | |

Applications: Use **medium and coarse** surface conditioning discs for steel surfaces. Use **fine and extra fine** surface conditioning discs for aluminum surfaces.

Heavy Duty

GOOD Heavy stock removal

BETTER Scale Removal

BEST Heavy Deburring

Extra Coarse

GOOD Scale removal

BETTER Med stock removal

BEST Rust & paint removal

Coarse

GOOD Light Stock Removal

BETTER Scale Removal

BEST Light deburring

Medium

GOOD Light deburring

BETTER Cleaning

BEST Blending, Finishing

Fine

GOOD Blending

BETTER Finishing

BEST Cleaning

Extra Fine

GOOD Light Blending

BETTER Finishing

BEST Light Cleaning

Note: Use with Type R Mandrel Art. No. 585.41 and 585.43

TYPE 'R' MANDREL



For use with all Würth Type 'R' mini discs

| Diameter | Art. No. | P. Qty. |
|----------|---------------|---------|
| 1-1/2" | 585.40 | 1 |
| 2" | 585.41 | |
| 3" | 585.43 | |
| 4" | 585.44 | |

VELCRO SURFACE CONDITIONING DISCS



For use on electric and pneumatic angle grinders. Ideal for sanding flat surfaces.

Benefits:

- High tear resistance, even sanding pattern, water resistant
- No change in shape during sanding
- No clogging
- Cooler sanding (low working temperature)

| Diameter | | Type | Colour | Max. RPM | Art. No. | P. Qty |
|----------|-----|--------|--------|----------|-------------------|--------|
| Inches | mm | | | | | |
| 4 1/2" | 115 | Coarse | Brown | 4,150 | 585.46080 | 10 |
| | | Medium | Maroon | | 585.460100 | |
| | | Fine | Blue | | 585.460180 | |
| 5" | 125 | Coarse | Brown | 3,800 | 585.47080 | |
| | | Medium | Maroon | | 585.470100 | |

Applications: Burnishing, matting, polishing, removing paint runs, removing surface defects (light scratches) and smoothing surfaces

Coarse

GOOD Heavy stock removal

BETTER Scale Removal

BEST Heavy Deburring

Medium

GOOD Light deburring

BETTER Cleaning

BEST Blending, Finishing

Fine

GOOD Blending

BETTER Finishing

BEST Cleaning

Note: Use with backing pad Art. No. 586.12012, 586.12028 or 586.12035

Product Tip: Ideally suited for machining aluminum, steel, brass, copper, wood, plastics and paints.

BACKING PADS



Velcro Backing Pads

- Backing pad for use with Velcro discs. Incorporates unique hook and loop fastening system for simple application and removal.

| Dia. | Shank size | Max. RPM | Art. No. | P. Qty |
|--------|------------------|----------|------------------|--------|
| 4 1/2" | 5/8" - 11 Female | 10,000 | 586.12012 | 1 |
| 5" | | | 586.12035 | |

Safety Tip: Always check the RPM of the disc being used.

CERAMIC PLUS FLAP DISCS



Innovative grain technology that results in sharper grain edges and higher stock removal on high alloyed steels and stainless steel

Features:

- Aggressive self-sharpening grain
- Microcrystals that produce sharper grain edges

Advantages:

- Long service life
- High removal rate
- Low contact pressure required
- Cool grinding

Applications:

- Stainless steel
- Steel
- Aluminum
- Rust resistant, acid resistant and heat resistant high alloyed steels

| Diameter | Arbour Hole | Grit | Max. RPM | Design | Art. No. | P. Qty. |
|----------|-------------|------|----------|---------|------------|---------|
| 4-1/2" | 7/8" | 40 | 13,300 | Type 29 | 578.941240 | 5 |
| | | 60 | | | 578.941260 | |
| | | 80 | | | 578.941280 | |
| 5" | | 40 | 12,200 | | 578.950040 | |
| | | 60 | | | 578.950060 | |
| | | 80 | | | 578.950080 | |

FLAP DISCS - CERAMIC



LONG LIFE

Benefits:

- Lasts up to four times longer than conventional flap discs.
- Very high degree of material removal.
- Finer, more uniform surface quality.

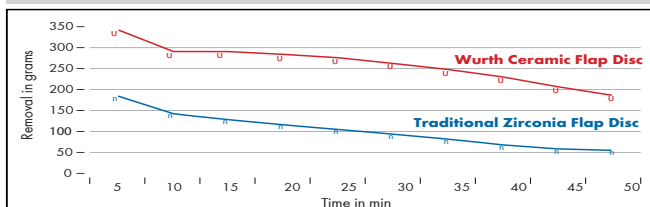
High-performance grinding cloth:

- Self-sharpening ceramic grain.
- Extremely long service life.
- Very cool grinding.
- No discolouration of material.
- Self-sharpening ceramic grain.

Applications:

- Ideal for the processing of stainless steel, high-alloy steels, nickel-based alloys and titanium alloys.
- Used for grinding edges and surfaces, dressing and smoothing, deburring and weld seam processing

Grinding Comparison with Grit 40 in Stainless Steel 1.4571



| Diameter | Arbour hole | Grit | Max. RPM | Design | Backing | Art. No. | P. Qty. |
|----------|-------------|------|----------|---------|-------------------|------------|---------|
| 4 1/2" | 7/8" | 40 | 13,300 | Type 29 | Fibreglass Backed | 578.430314 | 10 |
| | | 60 | | | | 578.430316 | |
| | | 80 | | | | 578.430318 | |
| 5" | | 40 | 12,200 | | | 578.430324 | |
| | | 60 | | | | 578.430326 | |
| | | 80 | | | | 578.430328 | |

JUMBO FLAP DISCS - ZIRCONIA



For use on all types of metals!

- Designed for maximum performance when deburring, grinding and polishing metals
- Mineral bond and fibreglass backing for better performance and stronger resistance
- Powerful, versatile, flexible, safe and economical

Note: Lasts up to 3 times longer than a conventional flap disc due to more flap segments.

| Dia. | Arbor hole | Grit | Max. RPM | Design | Art. No. | P. Qty. | |
|--------|------------|--------------|-------------|-------------|--------------|---------|------------|
| 4 1/2" | 7/8" | 24 | 13,300 | Type 27 | 578.412.024 | 5 | |
| | | 40 | | | 578.412.040 | | |
| | | 60 | | | 578.412.060 | | |
| | | 40 | | Type 29 | 578.412.4029 | | |
| | | 60 | | | 578.412.6029 | | |
| 80 | | 578.412.8029 | | | | | |
| 5" | | 7/8" | 24 | 12,300 | Type 27 | | 578.5..024 |
| | | | 40 | | | | 578.5..040 |
| | | | 60 | | | | 578.5..060 |
| | | | 80 | | 578.5..080 | | |
| | 24 | | Type 29 | | 578.5..2429 | | |
| | 36 | | | 578.5..3629 | | | |
| | 60 | | 578.5..6029 | | | | |
| | 80 | | 578.5..8029 | | | | |

6" JUMBO FLAP DISC ZIRCONIA



For maximum performance in deburring, grinding, and polishing metals and welding

Features:

- Fiber glass backing
- Made with continuous self-sharpening High-Tech Zirconia Alumina Grain
- Flat Surface
- Manufactured in Canada

Advantages:

- High performance and high resistance
- High cutting rate
- Long service life

Applications

- Carbon Steel
- Stainless Steel
- Heat Treated Steels and Tools Speed
- Alloyed Steels
- Sheet Metal
- Cast Iron
- Non-Ferrous Metals

| Diameter (in) | Arbour Hole | Grit | Max. RPM | Design | Art. No. | P. Qty. |
|---------------|-------------|------|----------|---------|-----------|---------|
| 6" | 7/8" | 36 | 10,200 | Type 27 | 578.6..36 | 5 |
| | | 60 | | | 578.6..60 | |
| | | 80 | | | 578.6..80 | |

FLAP DISCS – ZIRCONIA



Can be used on virtually any material!

Benefits:

- High removal rate
- Long life
- Cool cutting
- Even grinding pattern

Applications:

- Performance grinding for high stock removal
- Removal of welded seams and edge grinding
- Works on burrs and rough casts
- Rust removal and cleaning

Note: The Type 29 Conical discs are only available with fibreglass backing, and the Type 27 Flat discs are only available with plastic backing.

| Diameter | Arbor hole | Grit | Max. RPM | Design | Backing | Art. No. | P. Qty. | |
|----------|------------|--------|------------|---------|-------------------|----------------|---------|------------|
| 4 1/2" | 7/8 " | 40 | 13,300 | Type 29 | Fibreglass Backed | 579.430314 | 10 | |
| | | 60 | | | | 579.430316 | | |
| | | 80 | | | | 579.430318 | | |
| 40 | | 12,300 | 579.430324 | | | | | |
| 60 | | | 579.430326 | | | | | |
| 80 | | | 579.430328 | | | | | |
| 4 1/2" | | 7/8 " | 40 | 13,300 | Type 27 | Plastic Backed | | 579.431514 |
| 60 | | | 579.431516 | | | | | |
| 80 | | | 579.431518 | | | | | |
| 40 | 12,300 | | 579.431524 | | | | | |
| 60 | | | 579.431526 | | | | | |
| 80 | | | 579.431528 | | | | | |
| 7" | 7/8 " | 40 | 8,500 | Type 29 | Fibreglass Backed | 578.02940 | 5 | |
| | | 60 | | | | 578.02960 | | |
| | | 80 | | | | 578.02980 | | |

EZ SPIN FLAP DISCS – ZIRCONIA



Reduce waste and increase productivity with the EZ Spin Quick Change System.

Features:

- Cool cutting zirconia grain
- One step 'spin on' 5/8-11 threaded hub
- Ergonomic grip area for fast and easy finger alignment and mounting
- Positive drive - no slip
- Over-torque protection
- Self-tightening thread
- Durable high-strength plastic backing

Advantages:

- Super-fast mounting and demounting
- Eliminate costly changeover time
- Plastic backing absorbs vibration and increases removal rate performance
- 5/8-11 hub fits all standard grinders
- High stock removal
- Long life
- Even grinding pattern

Applications:

- Steel, stainless steel, non-ferrous, vehicle body construction, wood etc.
- Grinding and finishing welds
- Removal of welded seams
- Edge grinding
- Rust removal and heavy cleaning
- Surface finishing

| Diameter | Arbor | Grit | Max. RPM | Design | Art. No. | P. Qty |
|----------|--------|------|----------|---------|-------------------|--------|
| 4-1/2" | 5/8-11 | 36 | 13,300 | TYPE 29 | 579.432513 | 5 |
| | | 40 | | | 579.432514 | |
| | | 60 | | | 579.432516 | |
| | | 80 | | | 579.432518 | |
| | | 120 | | | 579.432511 | |
| 5" | | 36 | 12,200 | | 579.432523 | |
| | | 40 | | | 579.432524 | |
| | | 60 | | | 579.432526 | |
| | | 80 | | | 579.432528 | |
| | | 120 | | | 579.432521 | |

SEE-THROUGH FLAP DISC ZIRCONIA



See “through the disc” and thus on the material being processed. Cool and even grinding results. Ideal for the processing of thin sheet metal for the construction of vehicle bodies and weld seams.

Benefits:

- Free view of the work piece being processed:
 - Prevents undesired excessive grinding
 - Reduction of processing faults
- Better surface quality through more targeted work
- Cool grinding due to fan effect:
 - Reduction of temperature on the surface prevents undesired blue colouring of the work piece
- Good, steady guidance

Applications:

General steel construction

- Weld seam preparation and post-processing of weld seams
- Derusting
- Removal of scale
- Grinding of wrought ironwork (grills, railings, banisters)
- Removal of excess zinc on weld seams before plastic coating

Stainless steel processing

- Pipeline construction, tank and container construction
- Apparatus construction (chemical industry)
- Plant construction, such as breweries, food industry
- Boat construction

Aluminum processing (all non-ferrous metals)

- Special vehicles, such as silo vehicles, ambulances, fire department vehicles, etc
- Ship construction
- Airplane construction

Agricultural machines

- Sharpening of blades (lawn mowers, reciprocating finger bar mower)

Vehicle body construction

- Accident repairs: paints and filler compounds, MIG solder seams
- Special vehicle construction (truck attachments, servicing, and parts subject to wear for bulk material transporters)

Wood and Fibre-reinforced plastic processing

- Exact surfaces or edge corrections

Function:



Grinding without Zebra slotted see-through disc.



Grinding with Zebra slotted see-through disc: good view of the material being processed.

| Dia | Arbor Hole | Grit | Max. RPM | Design | Art. No. | P. Qty |
|--------|------------|------|----------|---------|-------------|--------|
| 4 1/2" | 7/8" | 40 | 13,300 | Type 29 | 578.811.540 | 2 |
| | | 60 | | | 578.811.560 | |
| | | 80 | | | 578.811.580 | |
| 5" | 7/8" | 40 | 12,200 | Type 29 | 578.812.540 | 2 |
| | | 60 | | | 578.812.560 | |
| | | 80 | | | 578.812.580 | |

Note: When only wood or plastics are ground, the disc must be cleaned by grinding on a sharp-edged iron tool.

Product Tip: For particular use on steel, stainless steel and aluminum. Welding spray, **Art. No. 893.1021**, extends the tool life of the slotted see-through disc for the processing of non-ferrous metals.

MINI FLAP DISCS - TYPE 'R' ZIRCONIA



Mini flap disc with type-R quick-action chuck for use with die grinders.

Applications:

- Alternative to mini resin fibre discs, small roughing discs, point grinders, fan-shaped grinders, grinding sleeves, grinding caps, etc.
- Weld seam finishing, surface grinding, removal of paint, tool sharpening, plastering and smoothing, deburring, edge machining and finishing, particularly in tight spaces
- Used for stainless steel, chromium, and nickel alloys, alloyed and unalloyed steels, construction steel, tool steel, nonferrous metals, castings, hard plastics and wood



Compatible with 3M Roloc™ System

Use with: Type R Mandrel Art. No. 585.41 and 585.43

| Diameter | Grit | Max. RPM | Art. No. | P. Qty. |
|----------|------|----------|------------|---------|
| 2" | 40 | 30,000 | 578.605040 | 2 |
| | 60 | | 578.605060 | |
| | 80 | | 578.605080 | |
| 3" | 40 | 20,000 | 578.607640 | |
| | 60 | | 578.607660 | |
| | 80 | | 578.607680 | |

MINI FLEXI DISCS -TYPE 'R' ZIRCONIA



Suitable for concave or convex surfaces as well as finishing, transition and profile grinding. Robust and flexible cotton fabric with high tearing strength.

Applications:

- Used on stainless steel, chromium and nickel alloys, alloyed and unalloyed steels, construction steel, tool steel, nonferrous metals, castings, hard plastics and wood

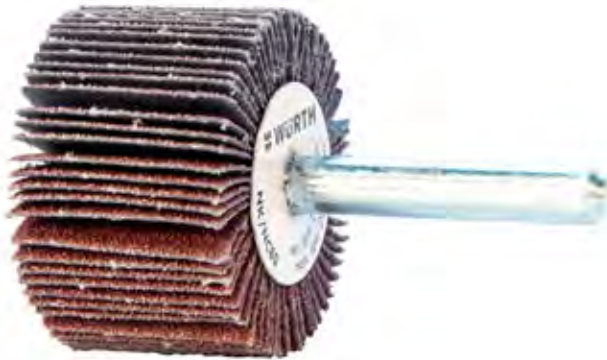


Compatible with 3M Roloc™ System

Use with: Type R Mandrel Art. No. 585.41 and 585.43

| Diameter | Grit | Max. RPM | Art. No. | P. Qty. |
|----------|------|----------|------------|---------|
| 2" | 40 | 30,000 | 578.705040 | 2 |
| | 60 | | 578.705060 | |
| | 80 | | 578.705080 | |

FLAP WHEELS



Benefits:

- Excellent for applications requiring high stock removal and aggressive cleaning, blending and finishing
- Leaves straight line finish
- Mandrel runs through the wheel reducing chatter and operator fatigue
- Aluminum oxide abrasive with phenolic resin

Applications:

- Deburr edges
- Clean, blend and finish inside and outside diameters of ferrous and non-ferrous metals

STANDARD

| Grit | 1" x 1/2" | 1" x 1" | 1 1/2" x 1/2" | P. Qty |
|-----------------|------------|------------|---------------|--------|
| | Art. No. | Art. No. | Art. No. | |
| 60 | 672.033076 | 672.033096 | 672.034076 | 10 |
| 80 | 672.033078 | 672.033098 | 672.034078 | |
| 120 | 672.033071 | 672.033091 | 672.034071 | |
| Max RPM | 30,500 | 30,500 | 20,000 | |
| Rec. RPM | 15,700 | 15,700 | 10,000 | |

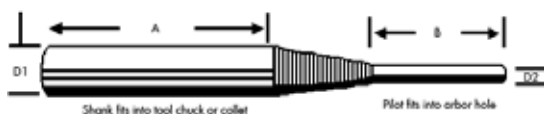
| Grit | 1 1/2" x 1" | 2" x 1/2" | 2" x 3/4" | P. Qty |
|-----------------|-------------|------------|------------|--------|
| | Art. No. | Art. No. | Art. No. | |
| 60 | 672.034096 | 672.035076 | 672.035086 | 10 |
| 80 | 672.034098 | 672.035078 | 672.035088 | |
| 120 | 672.034091 | 672.035071 | 672.035081 | |
| Max RPM | 20,000 | 15,000 | 15,000 | |
| Rec. RPM | 10,000 | 7,500 | 7,500 | |

| Grit | 2" x 1" | 2 1/2" x 1" | 3" x 1" | P. Qty |
|-----------------|------------|-------------|------------|--------|
| | Art. No. | Art. No. | Art. No. | |
| 60 | 672.035096 | 672.036096 | 672.037096 | 5 |
| 80 | 672.035098 | 672.036098 | 672.037098 | |
| 120 | 672.035091 | 672.036091 | 672.037091 | |
| Max RPM | 15,000 | 12,000 | 9,500 | |
| Rec. RPM | 7,500 | 6,000 | 4,700 | |

METRIC

| Grit | 30mm x 15mm x 6mm | 40mm x 20mm x 6mm | 60mm x 30mm x 6mm | P. Qty |
|-----------------|-------------------|-------------------|-------------------|--------|
| | Art. No. | Art. No. | Art. No. | |
| 60 | 672.010316 | 672.010426 | 672.010636 | 5 |
| 80 | 672.010318 | 672.010428 | 672.010638 | |
| 120 | 672.010311 | 672.010421 | 672.010631 | |
| Max RPM | 25,400 | 19,100 | 12,700 | |
| Rec. RPM | 12,000 | 9,600 | 6,300 | |

MANDRELS FOR CARTRIDGE ROLLS



Plated steel with a shank diameter to fit a variety of power tool chucks or collets.

For safety considerations, the mandrel pilot length used to drive a cartridge roll should measure at least 1/2" less than the overall length of the cartridge roll. Example: If a cartridge roll measures 2" in overall length, the corresponding mandrel should have a pilot length of no less than 1 1/2".

| D1 | O.A.L | A | B | D2 | Art. No. | P. Qty |
|------|--------|--------|------|-------|----------|--------|
| 1/4" | 4" | 2-1/4" | 1" | 1/8" | 588.200 | 1 |
| | 2-3/4" | 1-1/4" | 3/4" | 3/16" | 588.100 | |

CARTRIDGE ROLLS - ALUMINUM OXIDE



Also known as sanding rolls, tootsie rolls, or hard rolls. rolled strips of abrasives, designed for metal removal on curved surfaces.

Applications:

- Ideal for engine porting, including intake manifold, head and exhaust manifold. Removes burrs from carburetor base and carburetor parts. Ideal solution for hard to reach areas
- Multi-layer, multi-wear design exposes new abrasive cutting points throughout the life of the roll
- Flash removal, polishing, removing machine tool marks and edge breaking

| Diameter | Length | Arbor Hole | Grit | Art. No. | P. Qty |
|----------|--------|------------|----------------|----------------|--------|
| 3/8" | 1-1/2" | 1/8" | 60 | 588.031 | 25 |
| | | | 80 | 588.032 | |
| | | | 120 | 588.033 | |
| 40 | | | 588.040 | | |
| 60 | | | 588.041 | | |
| 80 | | | 588.042 | | |
| 1/2" | 1" | 3/16" | 80 | 588.050 | |
| 5/8" | | | 80 | 588.050 | |



METAL POLISHING PADS - TYPE 'R'



Compatible with 3M Roloc™ System

Features:

- Excellent for restoring metal finishes on items too large to polish on a bench mounted polisher
- Allows the operator to polish with the same die grinder and holder pad they would normally use for surface conditioning and sanding discs
- Great final finishing on aluminum, brass and chrome

Applications:

- Used for polishing aluminum wheels, stainless steel tool boxes and running boards, chrome bumpers, brass fittings, chrome motorcycle exhaust, etc

Instructions:

- A metal polish or buffing compound must be applied to the disc prior to polishing any type of metal. The disc will not work without some sort of polishing agent
- Metal polish should be applied sparingly. If too much polish is used, the excess will fly off as soon as the disc is spun by the air tool, causing a mess
- Slow speed and light pressure should be used. Allow the disc and polish to do the work
- The disc can be cleaned of old polish residue by holding the tool at an angle and dragging a sharp tool, such as a screwdriver, across the face of the disc while it is spinning

| Diameter | Max RPM | Art. No. | P. Qty |
|----------|---------|-----------------|--------|
| 2" | 20,000 | 585.3160 | 4 |
| 3" | | 585.3161 | 2 |

Use with: Type R Mandrel Art. No. 585.41 and 585.43

Product Tip: Begin polishing with Würth Buff and Blend and finish with this metal polishing pad.

BLENDING DRUMS



Blend, polish and clean steel, stainless steel, aluminum and brass.

Features:

- High quality fibres ensure a smooth, polished finish.

Advantages:

- The 4" width drums come with a dual 5/8-11 connection (one on each side). This allows the drum to be changed over to ensure even wear and to maximize service life

Applications:

- Blending, polishing, cleaning and brightening metal surfaces
- Suitable for use on hard plastics and wood
- Gently removes oxidation

| Diameter (inches) | Width (inches) | Arbour | Dual Arbour Connection | Grit | Max RPM | Art. No. | P. Qty. |
|-------------------|----------------|--------|------------------------|--------|---------|------------|---------|
| 4-1/4 | 2 | 5/8-11 | No | Coarse | 5700 | 672.841221 | 1 |
| | | | | Medium | | 672.841222 | |
| | | | | Fine | | 672.841223 | |
| | 4 | | Yes | Coarse | | 672.850041 | |
| | | | | Medium | | 672.850042 | |
| | | | | Fine | | 672.850043 | |

BUFF & BLEND WHEELS



GRIT DEFINITION

120 Grit (Very fine blend): Blend minor surface imperfections

80 Grit (Very fine clean): Remove surface oxidation, coatings and rust. Surface preparation prior to coating.

60 Grit (Medium deburr): Remove part lines from castings, small burrs from threaded pipes, flash from plastic molded parts.

Benefits:

- Constructed of non-woven and aluminum oxide coated abrasive material
- High rate of cut while providing a uniform scratch pattern
- Smear-resistant formula
- Durable
- Permanently affixed 1/4" shank provides secure, safe and smooth running as well as ease of control
- Materials: ferrous, non-ferrous, aluminum, high nickel/chrome alloys and stainless steel

Applications:

- Designed for use on small straight pneumatic and electric grinders
- For removal of heavy oxidation prior to painting and/or plating
- For deburring and grain finishing stainless steel sheets after conventional coated abrasives
- For finishing stamped or extruded aluminum parts
- For satin finishing large surfaces
- For blending, cleaning and finishing on ferrous and non-ferrous materials when a linear scratch pattern is required and final finish is a primary concern

Features:

- Resists loading
- Cool running
- Long life

Materials:

- Ferrous
- Non-Ferrous
- Aluminum
- High Nickel / Chrome Alloys
- Stainless Steel

| Diameter x Width x Shank | Abrasive Grit | Non-Woven | Max. RPM | Art. No. | P. Qty |
|--------------------------|---------------|-----------|------------|------------|--------|
| 2" x 1" x 1/4" | 60 | Medium | 11,000 | 588.898000 | 2 |
| | 80 | | | 588.898001 | |
| | 120 | Very Fine | | 588.898002 | |
| | 180 | | | 588.898003 | |
| 3" x 1" x 1/4" | 120 | Very Fine | 8,000 | 588.898006 | |
| | 180 | | | 588.898007 | |
| 3" x 2" x 1/4" | 60 | Medium | | 588.898008 | |
| | 80 | | | 588.898009 | |
| | 180 | Very Fine | 588.898011 | | |

CONTOUR SANDING PADS

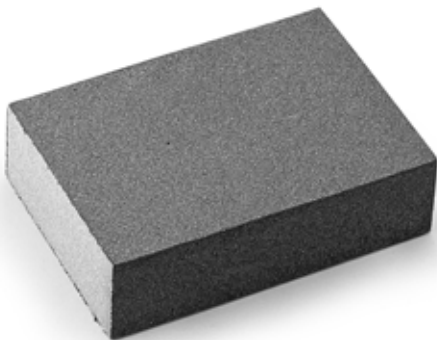


Wood and metal sanding

- Aluminum oxide
- Abrasive paper and sanding block in one
- Adapts to any shape, making it highly versatile
- Can be re-used after rinsing with water
- Can be used on hard-to-reach areas
- Especially well-suited for flat sanding

| Dimensions (mm) | Grain | Art. No. | P. Qty |
|-----------------|-------|------------------|--------|
| 125 x 100 x 10 | 60 | 587.0260 | 10 |
| | 80 | 587.0280 | |
| | 100 | 587.02100 | |
| | 120 | 587.02120 | |
| | 220 | 587.02220 | |

FOAM SANDING BLOCKS



Wood and metal sanding

- Aluminum oxide
- For dry sanding
- Made of flexible material, which allows it to adapt to any shape
- Can be re-used after rinsing with water

| Dimensions (mm) | Grain | Art. No. | P. Qty |
|-----------------|-------|------------------|--------|
| 100 x 68 x 25 | 60 | 587.0160 | 10 |
| | 80 | 587.0180 | |
| | 100 | 587.01100 | |
| | 120 | 587.01120 | |
| | 160 | 587.01160 | |
| | 180 | 587.01180 | |
| | 220 | 587.01220 | |

FIBRATEX HAND PADS - 6" X 9"



Heavy Duty Coarse - Tan - Art. No. 585.23811

- Heavy duty aluminum oxide grain, extremely aggressive for paint removal and coarse finishing.

Coarse - Green - Art. No. 585.10889

- Industrial aluminum oxide grain for use on stainless steel. Great for heavy cleaning and food processing industry.

Medium - Maroon - Art. No. 585.10890

- Premium aluminum oxide grain for precision surface conditioning and a faster cut for scuffing, blending and paint preparation.

Fine - Grey - Art. No. 585.10891

- Silicon carbide grain used for fine finishing. Good for between finish coats as well as lacquer rubbing. Can be used wet.

Ultra-Fine - White - Art. No. 585.10892

- Non-abrasive pad used for light duty cleaning. No added grain makes it gentle on the workpiece. Great for light primer and rub down on paint over-spray removal.

Product Tip: Can be used wet or dry

NYLON ABRASIVE FLEECE



Product Tip: For use on soiled or greasy areas - use with Art. No. 890.113 W-Sol Residue Remover, or use with Industry Clean Art. No. 893.140

Applications:

- Pretreatment for painting
- Prepping and cleaning of Aluminum
- Grease removal and scuffing
- Stripe matting (decorative finish) of non-ferrous metals and stainless steel
- Polishing copper, brazed joints
- Touch up paint work
- Light rust removal
- Repair defects in surface coat
- Fine polishing of plastic parts
- Scuffing of thermal plastics

| Grade | Comparable Grit | Reel Length | Reel Width | Art. No. |
|-------------|-----------------|-------------|------------|-------------------|
| Very Coarse | 100 | 5 m | 4 1/2" | 585.805100 |
| Coarse | 180 | | | 585.805180 |
| Medium | 280 | | | 585.805280 |
| Ultra Fine | 1000 | | | 585.805600 |

NYLON FIBRE DISCS



| Diameter | Working Speed RPM | Art. No. | Arbor | Arbor Art. No. | P. Qty |
|---|-------------------|------------------|-------|------------------|--------|
| 4" | 3,500-4,500 | 585.1100 | 6mm | 585.11001 | 1 |
| 6" | 2,500-3,000 | 585.1150 | 3/8" | - | |
| Replacement Arbor for Nylon Fibre Discs | | 585.11001 | | | |

- Silicon carbide nylon fibre disc (extra course)
- Suited to form all shapes and contours
- Produces even finish without scores or scratches
- Not affected by paint, rust particles, tin, underbody seal, or body sealants
- Free from corrosive metals
- Resistant to water and solvents
- Long tool life
- May be used wet or dry

Applications:

- Cleaning welding seams, metal surfaces, wood and plastic
- Removing tempering colour, scale, rust, corrosion, dirt and oxide layers, coatings, paints, old brushed-on coatings, synthetic resins, adhesives, gasket residues, cement and concrete residues
- Structuring, line matting, preparation and roughening up of surfaces
- Easy deburring
- Cleaning vehicle body

NYLON ABRASIVE FLEECE WITH SHANK



| Diameter | Shank | RPM | Art. No. | P. Qty |
|----------|-------|--------------|----------------|--------|
| 2-1/2" | 1/4" | 5,000-10,000 | 585.320 | 5 |

- Nylon fibre fleece with silicone carbide abrasive grain for an even finish
- Contains no corrodible metals
- Long tool life
- Suited for working on the cleaning of wheel housing, flanged edges of doors, trunks and hoods

Applications:

- Rust removal
- Suitable for removal of old paint, underbody protection and sealing compounds

RED CERAMIC QUICK STRIP DISCS



Extremely fast cleaning and maximum service life when removing welding seams, scale corrosion and coatings.



Compatible with 3M Roloc™ System

Features:

- Ceramic grain

Advantages:

- High rate of material removal
- Long life due to self-sharpening grain
- Discs do not clog when sanding coatings, adhesives or soft metals

Applications:

- Cleaning and finishing welding seams, metal surfaces and plastics
- Cleaning vehicle underbodies and other body work
- Removing scale, corrosion, dirt and oxide layers, coatings, paints and dyes, old brushed-on coatings, synthetic resins, adhesives, gasket residues, cement and concrete residues.
- Materials to be processed: steel, stainless steel, aluminum, cast iron, fibreglass and composite materials.

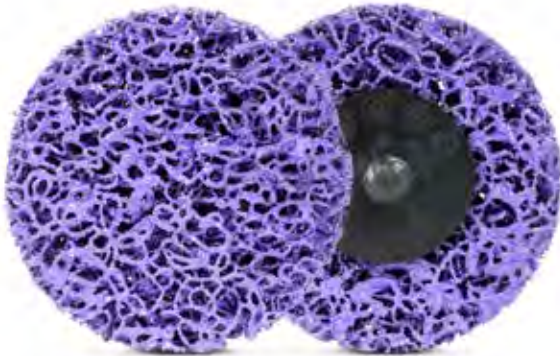
| Diameter | Max. RPM | Art. No. | P. Qty |
|----------|----------|------------------|--------|
| 2" | 13,000 | 673.22250 | 10 |
| 3" | 11,000 | 673.22275 | |



For use on **Angle Grinder**

| Diameter | Max. RPM | Art. No. | P. Qty |
|----------|----------|-------------------|--------|
| 4-1/2" | 12,000 | 585.333115 | 10 |
| 5" | 12,000 | 585.333125 | |

PURPLE PRO QUICK STRIP DISCS



Compatible with 3M Roloc™ System

Features:

- Premium coarse silicon carbide grain

Advantages:

- Safer, faster and smoother finish than steel wire wheels and other silicon carbide discs
- More durable than the leading competitor brands, resulting in longer life of disc

Applications:

- Removal of rust, paint, bead sealer, seam sealer, body filler and vehicle undercoating
- Metal cleaning, stripping and surface preparation

| Diameter | Max. RPM | Art. No. | P. Qty. |
|----------|----------|----------|---------|
| 2" | 18,000 | 585.4160 | 10 |
| 3" | 7800 | 585.4161 | |
| 4" | 6000 | 585.4162 | 5 |



For use on **Angle Grinder**

| Diameter | Max RPM | Art. No. | P. Qty |
|----------|---------|------------|--------|
| 4-1/2" | 11,000 | 585.222115 | 5 |
| 5" | 9,800 | 585.222125 | |

BLUE QUICK STRIP DISCS - TYPE 'R'



Compatible with 3M Roloc™ System

- Effective removal of rust, paint, graffiti, undercoating and metal cleaning prior to welding
- Safer and faster than steel wire wheels (Resists loading, even on soft material)
- Contains a coarse silicon carbide grain that promotes rapid removal of surface contaminants and leaves a smooth finish
- It is important that the disc be run flat and not at an angle

Safety Notes:

- Great care must be taken to operate at or below the listed RPM

| Diameter | Max. RPM | Art. No. | P. Qty |
|----------------------------------|----------|-----------|--------|
| 2" | 12,000 | 585.2160 | 10 |
| 3" | 8,500 | 585.2161 | 5 |
| 4" x 1/4" | 6,000 | 585.2162* | 2 |
| 1/4" Arbor for Art. No. 585.2162 | | 585.11002 | 1 |

* Item is not compatible with 3M Roloc™ System

RUBY PORTABLE SANDING BELTS



Perfect for woodworking. Special open-coat design prevents the material from loading-up and extends life of belt. The precisely made overlap joint reduces chatter marks.

Features:

- Premium heat-treated Aluminum Oxide resulting in a super tough, long lasting belts
- Ultra low-profile lap joint ensures low 'chatter' noise from the belt sander
- Special "Open-Grain" belt design reduces loading grid heat
- "X" weighted cloth for superior durability and performance

Technical Specifications:

- Aluminum Oxide Grain
- X - weight cloth backing
- Resin over Resin Bond
- Open Grain Coating
- Grit range 40-150

Application:

- Wood

| Size | Grit | Art. No. | P. Qty |
|----------|------|------------|--------|
| 3" x 21" | 40 | 675.040533 | 20 |
| | 60 | 675.060533 | |
| | 80 | 675.080533 | |
| | 100 | 675.100533 | |
| | 120 | 675.120533 | |
| | 150 | 675.150533 | |
| 4" x 24" | 40 | 675.040610 | |
| | 60 | 675.060610 | |
| | 80 | 675.080610 | |
| | 100 | 675.100610 | |
| | 120 | 675.120610 | |
| | 150 | 675.150533 | |

CERAMIC FILE BELTS



Ceramic grain with cooling properties provides excellent stock removal extending the life of the belt.

Features:

- Ceramic grain
- Polyester backing
- Closed coating

Advantages:

- Excellent stock removal
- Long life due to self-sharpening grain
- Cool grinding performance

Applications:

- Spot weld removal and clean up
- Wet and dry grinding
- Steel, stainless steel, and heat sensitive alloys

| Width | Length | Grit | Art. No. | P. Qty |
|-------|--------|------|------------|--------|
| 1/2" | 18" | 36 | 672.419003 | 10 |
| | | 80 | 672.419008 | |

SPEED-X NON-WOVEN BELTS



*Tool not included

Versatile non-woven belt suitable for the clean-up of spot welds, paint and rust in tight working areas

Features:

- Aluminum oxide grain
- Polyester backing available in sturdy or flexible

Advantages:

- Narrow belt allows access to hard-to-reach locations
- Suitable for dry and wet grinding
- High cut rate, reduced loading and low heat retention
- Long life

Applications:

- Steel, stainless steel, aluminum alloys, brass, bronze, plastic, nickel and titanium
- Removal of paint, seam sealer and adhesives
- Spot weld clean up
- Rust removal on sheet metal and vehicle brake component cleaning
- Surface conditioning and finishing
- Bumper repairs
- Gasket removal

| Image | Width | Length | Type | Backing | Art. No. | P. Qty |
|-------|-------|--------|--------------|--------------------|------------|--------|
| A | 1/2" | 18" | Extra Coarse | Polyester Sturdy | 585.716101 | 10 |
| B | | | Coarse | Polyester Flexible | 585.716100 | |

DECAL RESIDUE REMOVERS



Decal Residue Remover

For removing remains of adhesive and tapes from metal surfaces

Safety:

- Only use with slow running machines (**max. 2000 RPM**)
- Before first application roughen the edges of eraser (i.e on the clean edges of a work bench)

Observe running direction

- Opposite working direction
- Do not work on one place for too long, overheating may affect metal and paint. Wear protective goggles, ear plugs and gloves for personal safety when working (**Prefix 899**)

Pre Tests:

- On application on water-based paints there might be changes of the colours. Pre tests on invisible places are recommended.

Outside Diameter = 3 1/2"

Thickness = 5/8"

| Description | Art. No. | P. Qty |
|-------------------------------------|---------------|--------|
| Decal residue remover | 585.90 | 1 pair |
| Decal residue remover - Metal arbor | 585.93 | |

WIRE BRUSHES



Wire Bench Wheel

- Unique, flexible bristle pattern conforms to most shapes and profiles
- Designed to remove oxidation, adhesive, paint and various other coatings
- Excellent for wider surfaces where flexibility is required for preparing surfaces prior to welding
- High cut rate provides a clean, uniform finish
- Can be mounted in multiples

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|----------|---------------------------|-----------|-------|-----------------|--------|
| 8" | 1-3/4" | Steel | 1-1/4" Inc. 5/8" Adpt. | .020 | 4,500 | 714.6800 | 1 |



Wire Bench Wheel

- Unique, flexible bristle pattern conforms to most shapes and profiles
- Designed to remove oxidation, adhesive, paint and various other coatings
- Excellent for preparing surfaces prior to welding
- High cut rate provides a clean, uniform finish

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|----------|------------|-----------|-------|-----------------|--------|
| 6" | 1-3/4" | Steel | 5/8-11 NC | .020 | 6,000 | 714.6900 | 1 |



Knot Wire Wheel Brush

- Surfaces preparation, cleaning grooves, T-connections and welded beads

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|-----------|------------|-----------|--------|------------------|--------|
| 4" | 7/8" | Steel | 5/8-11 NC | .014 | 20,000 | 714.26359 | 1 |
| | | Stainless | | .014 SS | | 714.26376 | |
| | | Steel | | .020 | | 714.26392 | |
| | | Stainless | | .020 SS | | 714.26386 | |
| 5" | 1" | Steel | | .020 | 12,000 | 714.26256 | |

WIRE BRUSHES



Stringer Bead Wheel Brush

- Excellent for bead scale removal
- The small width of this brush allows it to be used in recessed areas such as welding junctions in pipeline fabrication

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty | | | | | | |
|----------|--------|-----------|------------|-----------|-----------|-----------|--------|-----------|-----------|---|--------|-----------|---|
| 4" | 7/8" | Steel | 5/8-11 NC | .020 | 20,000 | 714.26369 | 1 | | | | | | |
| | | Stainless | | | | 714.26399 | | | | | | | |
| 5" | 1" | Steel | | | 5/8-11 NC | .020 | | 12,000 | 714.26495 | 1 | | | |
| | | Stainless | | | | | | | 714.26468 | | | | |
| 6" | 1-1/2" | Steel | | | | | | 5/8-11 NC | .020 | | 12,000 | 714.26032 | 1 |
| | | Stainless | | | | | | | | | | 714.26112 | |



Safety Long Life Wire Brush (Mule Skinner)

- Ideal for the preliminary cleaning of metals which are intended to be painted or coated
- For the removal of slag, rust and paint
- High level of safety and long service life
- Even removal of material

| Diameter | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|---|------------|-----------|--------|----------|--------|
| 60 mm | Corrugated Steel Wire, Brass Coated, bound in Plastic | 13 mm | 0.3 mm | 12,500 | 714.6907 | 1 |



Arbor for Mule Skinner Art. No. 714.6908

- For Safety Longlife Brush



Wire Brush with Shank

- Oil hardened cast steel wire
- Right braided
- For removal of rust, paint, scale, welding residue and underbody seal

| Diameter | Material | Wire Size | RPM | Art. No. | P. Qty |
|----------|---------------|-----------|--------|----------|--------|
| 3" | Braided Steel | .05 mm | 20,000 | 714.6906 | 1 |



Wire Brush with Shank

- For light duty deburring and rust removal work
- Particularly well suited for automotive applications, cleaning of weldings

| Diameter | Material | Wire Size | RPM | Art. No. | P. Qty |
|----------|------------------------|-----------|--------|----------|--------|
| 1 1/2" | Steel Wire, Corrugated | 0.2 mm | 18,000 | 714.6910 | 1 |
| 2 3/8" | | 0.3 mm | 15,000 | 714.6911 | |



Surface Brush with Shank

- For grinding of large surfaces.

| Diameter | Shank | Material | Wire Size | RPM | Art. No. | P. Qty |
|----------|-------|---------------|-----------|-------|----------|--------|
| 60 mm | 6 mm | Crimped Steel | 0.3 mm | 4,500 | 714.6912 | 2 |
| 70 mm | | | | | 714.6913 | |

WIRE BRUSHES



Knot Wire cup brush

- For heavy-duty cleaning of large metal surfaces and specially designed for use on portable tools

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|----------|------------|-----------|-------|------------------|--------|
| 6" | 1-3/4" | Steel | 5/8-11" | .020 | 6,000 | 714.33015 | 1 |



Knot Style cup brush

- High speed small grinder knot wire cup brush

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|-----------------|------------|-----------|--------|------------------|--------|
| 2-3/4" | 7/8" | Stainless Steel | 5/8-11" | .020 | 14,000 | 714.33467 | 1 |
| 3-1/2" | | Steel | | | 12,500 | 714.33000 | |
| | | Stainless Steel | | | 12,500 | 714.33001 | |



Braided Steel Wire Pot Brush

- Ideal for the preliminary cleaning of metals
- For the removal of slag, rust and paint

| Diameter | Thread | Wire Size | RPM | Art. No. | P. Qty |
|----------|---------|-----------|--------|-----------------|--------|
| 70 mm | M14 | 0.5 mm | 12,500 | 714.6901 | 1 |
| 2-3/4" | 5/8-11" | | | 714.6958 | |



Knot Wire End Brushes - Steel

- Spot cleaning or facing; removal of slag, rust or scale; cleaning pipe inner diameter; deburring or flash removal; cleaning dies, molds and tooling; pipeline cleaning. Can be used on CNC equipment.

| Diameter | Length | Shaft Diameter | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|----------------|-----------|------------------|------------------|--------|
| 1/2" | 1-1/8" | 1/4" | 0.006 | 22,000 | 714.30002 | 1 |
| | | | 0.014 | | 714.30005 | |
| 3/4" | | | 0.006 | 20,000 | 714.30008 | |
| | | | 0.014 | | 714.30011 | |
| 1" | | | 0.104 | 714.30016 | | |
| | | | 0.014 | 714.30017 | | |



Knot Wire End Brushes - Stainless Steel

- Spot cleaning or facing; removal of slag, rust or scale; cleaning pipe inner diameter; deburring or flash removal; cleaning dies, molds and tooling; pipeline cleaning.

| Diameter | Length | Shaft Diameter | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|----------------|-----------|------------------|------------------|--------|
| 1/2" | 1-1/8" | 1/4" | .014 | 22,000 | 714.30429 | 1 |
| 3/4" | | | | 714.30435 | | |
| 1" | 1" | | | 20,000 | 714.30441 | |

HAND WIRE BRUSHES



Hand Brush
Art. No. 697.4

- Made of 4 rows of 0.35 mm plain steel wire
- 1 per Package



Small Clean Brush

- Ideal for the cleaning of metals in hard to reach places
- For the removal of slag, rust and paint
- Plastic handle

| Brush Width | Length | Material | Art. No. | P. Qty |
|-------------|--------|----------------------|-----------|--------|
| 3/8" | 7-1/4" | Stainless Steel Wire | 714.83111 | 2 |
| | | Brass Wire | 714.83112 | |



Acid/Flux Brush Horsehair

For cleaning inside and outside diameters of tubes and fittings.

| Size | Art. No. | P. Qty |
|-------|-----------|--------|
| 3/8" | 714.74060 | 4 |
| 9/16" | 714.74062 | |

FLEXIBLE EXTENSIONS AND 1/4" DRIVE HANDLE FOR BORE BRUSHES



Art. No. 715.0105

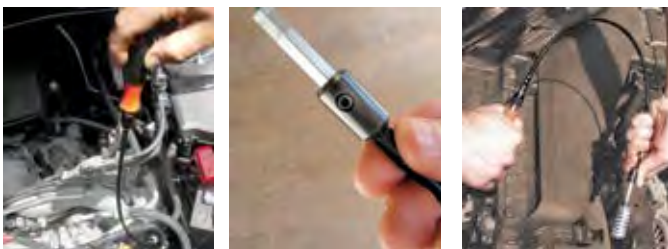
The 1/4" drive handle combined with flexible extensions, give easy access for hard to reach places, all in one deluxe kit.

Features:

- 1/4" Driver with quick lock adapter
- Quick-locking/disconnect
- 1/4" female hex drive
- Non-slip grip handle
- Compact design
- The 1/4" female coupler uses a set screw to prevent a brush or similar type tool from slipping
- Perfect for accessing hard to reach transmission valve bodies, oil galleries and EGR ports

Set Includes:

- 3 flexible extensions (6", 12" and 18")
- 1/4" drive handle



PROFESSIONAL BORE BRUSH SET - 36 PIECES



Quick Release Driver with Ergonomic Handle

Art. No. 715.010

This 36 piece bore brush set is designed for the professional technician who needs the right tool for the job.

Twisted wires for increased cleaning function.

Applications:

Clean bushings, ports, tubes, holes, channels, sockets, brake guides and other general wire brush applications.

The kit includes:

- 36 brushes: 12 Stainless Steel, 12 Brass and 12 Nylon (8 mm - 19 mm with 1/4" He Shank)
- 1/4" Head Driver with locking bit
- 12" flexible extension

Used in:

- Automotive
- Industrial
- MRO Industries
- Detailing
- Agriculture

WIRE BRUSH ASSORTMENT - 6 PIECES



Durable, abrasive, 6-piece bore brush set features the most common sizes for cleaning tubes, ports, bearings and other general wire brush applications.

Features:

- Durable abrasive bore brushes
- 6 piece set (8,10,12,15,17 and 19mm sizes) 1/4" Hex shank
- Use on ports, tubes, bearings and other common wire brush applications
- Do not exceed 600 rpm

Applications:

Stainless steel

- Stainless steel twisted wire gives it extra strength to increase cleaning action.
- Perfect to clean steel parts (like EGR valve ports)

Brass

- These brushes are designed to clean aluminum parts

Nylon

- These brushes are designed to clean sensitive parts, plastic parts, and are also perfect for the detailing industry

| Description | Art. No. |
|--|----------|
| Stainless Steel Wire Brush Assortment - 6 pcs. | 715.0101 |
| Brass Wire Brush Assortment - 6 pcs. | 715.0102 |
| Nylon Wire Brush Assortment - 6 pcs. | 715.0103 |

BRISTLE TYPE DISC



Applications:

- Head gaskets/gasket removal, rust removal, adhesive & paint removal, surface preparation

Abrasive disc designed to fit the Type 'R' Mandrel. The bristles (which are impregnated with ceramic grit) eat up rust, adhesive or paint residue, leaving a smooth surface with no marks. The open design prevents clogging and fragment fly-off during work.

| Description | Diameter (in.) | Grit | Art. No. | P. Qty |
|---------------|----------------|------|-----------------|--------|
| Green Coarse | 1" | 50 | 585.5110 | 2 |
| Yellow Medium | | 80 | 585.5120 | |
| White Fine | | 120 | 585.5130 | |
| Green Coarse | 2" | 50 | 585.5210 | 1 |
| Yellow Medium | | 80 | 585.5220 | |
| White Fine | | 120 | 585.5230 | |
| Green Coarse | 3" | 50 | 585.5310 | 1 |
| Yellow Medium | | 80 | 585.5320 | |
| White Fine | | 120 | 585.5330 | |

SPOT SANDING PEN WITH GLASS FIBERS

Art. No. 715.18335



Features:

- Can thoroughly clean rust, dirt or wax from any tight corner, crevice or hard to reach spot with 20,000 glass fibres in a pen point
- Fibres are finer than human hair yet stronger than steel when it comes to cleaning power

Characteristics:

- Sand paper can be too rigid to directly contact and clean the contours of inside edges, thus conventional sanding only cleans the high spots. The Würth spot sanding pen is designed with glass fibres that can be extended out (by turning) to ensure even the smallest recesses get cleaned.

MULTI-SURFACE SANDPAPER TRIANGLE



Dry sanding of edges, rims and flat areas of veneers and solid wood.

Wood sanding

- Aluminum oxide
- Hook & loop
- Dry sanding
- Uniform finish without scratching
- Aggressive initial and long-term sanding
- Long service life

Applications:

- Treated and untreated hardwood and softwood, fillers, plastics, plasterboards, paints, hard and soft paint systems and mineral materials (artificial stone)

| Dimensions (mm) | Grain | Art. No. | P. Qty |
|-----------------|-------|-------------------|--------|
| 90 x 90 x 90 | 40 | 581.22040 | 25 |
| | 60 | 581.22060 | |
| | 80 | 581.22080 | |
| | 100 | 581.220100 | |
| | 120 | 581.220120 | |
| | 150 | 581.220150 | |
| | 180 | 581.220180 | |
| | 220 | 581.220220 | |
| | 240 | 581.220240 | |

ARIZONA PERFECT SANDPAPER



For paint repair work requiring fine sanding. Fast, convenient sanding of hard-to-reach areas, edges and curves.

1 package = 200 hand pads

Fast, flexible and safe:

- Highly flexible finishing paper on foam backing
- Fits tight spaces, curvatures and recesses
- Smooth, clean finish

| Technical Specifications | |
|--------------------------|---|
| Carrier Material | Highly flexible finishing paper on foam |
| Bond | Synthetic Resin |
| Coating | Stearate Coating |
| Abrasive Grain | Aluminum Oxide |
| Scattering | Half Open |
| Colour | Sand Yellow |
| Form | Perforated Rolls |

| Grit | Width x Length | Art. No. | P. Qty. |
|------|----------------|--------------------|---------|
| 240 | 115mm x 25m | 5506.442124 | 1 |
| 400 | | 5506.442140 | |
| 600 | | 5506.442160 | |
| 800 | | 5506.442180 | |
| 1000 | | 5506.442111 | |

EMERALD FILM SANDING DISC



Emerald Film is a film backed sanding disc coated with premium aluminum oxide for superior performance with extended service life by reducing problems with tearing (available in Hook and Loop and PSA)

Features:

- Film-backing instead of standard paper-backing
- Superb moisture resistance, flexibility, and ruggedness
- Heat-treated aluminum oxide ensuring outstanding performance
- Open-grain design to reduce heat and clogging (loading up)

- 100% waterproof – perfect for wet or dry sanding applications
- Film-backing outlasts paper resulting in less disc usage

Applications:

- Automotive, wood, metal, marine, aerospace

| Technical Specifications | |
|--------------------------|------------------------|
| Grain | Premium Aluminum Oxide |
| Backing | Polyester Film |
| Bond | Phenolic Resin |
| Coating | Open Coat |

| Sizes | Hole Pattern | Attachment Type | Grit | Art. No. | P. Qty. |
|-------|--------------|-----------------|------|--------------------|---------|
| 5" | No Hole | PSA | 80 | 8506.342208 | 100 |
| | | | 100 | 8506.342210 | |
| | | | 120 | 8506.342212 | |
| | | | 150 | 8506.342215 | |
| | | | 180 | 8506.342218 | |
| | | | 220 | 8506.342222 | |
| | | | 240 | 8506.342224 | |
| | | | 280 | 8506.342228 | |
| 6" | No Hole | PSA | 80 | 8506.343208 | 100 |
| | | | 100 | 8506.343210 | |
| | | | 120 | 8506.343212 | |
| | | | 150 | 8506.343215 | |
| | | | 180 | 8506.343218 | |
| | | | 220 | 8506.343222 | |
| | | | 240 | 8506.343224 | |
| | | | 280 | 8506.343228 | |
| | | | 320 | 8506.343232 | |

| Sizes | Hole Pattern | Attachment Type | Grit | Art. No. | P. Qty. |
|-------|--------------|-----------------|------|--------------------|---------|
| 5" | No Hole | Hook & Loop | 80 | 8506.342008 | 100 |
| | | | 100 | 8506.342010 | |
| | | | 120 | 8506.342012 | |
| | | | 150 | 8506.342015 | |
| | | | 180 | 8506.342018 | |
| | | | 220 | 8506.342022 | |
| | | | 240 | 8506.342024 | |
| | | | 280 | 8506.342028 | |
| 6" | No Hole | Hook & Loop | 80 | 8506.343008 | 100 |
| | | | 100 | 8506.343010 | |
| | | | 120 | 8506.343012 | |
| | | | 150 | 8506.343015 | |
| | | | 180 | 8506.343018 | |
| | | | 220 | 8506.343022 | |
| | | | 240 | 8506.343024 | |
| | | | 280 | 8506.343028 | |
| | | | 320 | 8506.343032 | |

RAZER GOLD DISCS - HOOK & LOOP

5" No Hole Hook & Loop



| Grit | Art No. | P. Qty |
|------|-------------------------------|--------|
| 40 | 562.540 | 50 |
| 60 | 562.560 | |
| 80 | 562.580 | 100 |
| 100 | 562.5100 | |
| 120 | 562.5120 | |
| 150 | 562.5150 | |
| 180 | 562.5180 | |
| 220 | 562.5220 | |
| 280 | 562.5280 | |
| 320 | 562.5320 | |
| 400 | 562.5400 | |
| 600 | 562.5600 | |
| 800 | 562.5800 | |
| 800 | 562.5800SC[†] | |
| 1200 | 562.51200[†] | |
| 1500 | 562.51500[†] | |
| 3000 | 562.53000[†] | |

6" No Hole Hook & Loop



| Grit | Art No. | P. Qty |
|------|-------------------------------|--------|
| 40 | 564.640 | 50 |
| 60 | 564.660 | |
| 80 | 564.680 | 100 |
| 100 | 564.6100 | |
| 120 | 564.6120 | |
| 150 | 564.6150 | |
| 180 | 564.6180 | |
| 220 | 564.6220 | |
| 240 | 564.6240 | |
| 320 | 564.6320 | |
| 400 | 564.6400 | |
| 600 | 564.6600 | |
| 800 | 564.6800 | |
| 800 | 564.6800SC[†] | |
| 1200 | 564.61200[†] | |
| 1500 | 564.61500[†] | |
| 3000 | 564.63000[†] | |

5" 5 Hole Hook & Loop



| Grit | Art No. | P. Qty |
|------|----------------------------------|--------|
| 40 | 562.5..540 | 50 |
| 60 | 562.5..560 | |
| 80 | 562.5..580 | 100 |
| 100 | 562.5..5100 | |
| 120 | 562.5..5120 | |
| 150 | 562.5..5150 | |
| 180 | 562.5..5180 | |
| 220 | 562.5..5220 | |
| 280 | 562.5..5280 | |
| 320 | 562.5..5320 | |
| 400 | 562.5..5400 | |
| 600 | 562.5..5600 | |
| 800 | 562.5..5800 | |
| 800 | 562.5..5800SC[†] | |
| 1200 | 562.5..51200[†] | |

6" 6 Hole Hook & Loop



| Grit | Art No. | P. Qty |
|------|----------------------------------|--------|
| 40 | 564.6..640 | 50 |
| 60 | 564.6..660 | |
| 80 | 564.6..680 | 100 |
| 100 | 564.6..6100 | |
| 120 | 564.6..6120 | |
| 150 | 564.6..6150 | |
| 180 | 564.6..6180 | |
| 220 | 564.6..6220 | |
| 320 | 564.6..6320 | |
| 400 | 564.6..6400 | |
| 600 | 564.6..6600 | |
| 800 | 564.6..6800 | |
| 800 | 564.6..6800SC[†] | |
| 1200 | 564.6..61200[†] | |

5" 8 Hole Hook & Loop



| Grit | Art No. | P. Qty |
|------|----------------------------------|--------|
| 40 | 562.8..540 | 50 |
| 60 | 562.8..560 | |
| 80 | 562.8..580 | 100 |
| 100 | 562.8..5100 | |
| 120 | 562.8..5120 | |
| 150 | 562.8..5150 | |
| 180 | 562.8..5180 | |
| 220 | 562.8..5220 | |
| 280 | 562.8..5280[*] | |
| 320 | 562.8..5320 | |
| 400 | 562.8..5400 | |
| 600 | 562.8..5600[*] | |
| 800 | 562.8..5800 | |
| 800 | 562.8..5800SC[†] | |
| 1200 | 562.8..51200[†] | |

6" 8 Hole Hook & Loop



| Grit | Art No. | P. Qty |
|------|---------------------------------|--------|
| 40 | 564.8..640[*] | 50 |
| 60 | 564.8..660[*] | |
| 80 | 564.8..680[*] | 100 |
| 100 | 564.8..6100[*] | |
| 120 | 564.8..6120[*] | |
| 150 | 564.8..6150[*] | |
| 180 | 564.8..6180[*] | |
| 220 | 564.8..6220[*] | |
| 320 | 564.8..6320[*] | |
| 400 | 564.8..6400 | |
| 600 | 564.8..6600 | |
| 800 | 564.8..6800[*] | |
| 1200 | 564.8..61200[†] | |

* Available OnDemand

† Silicon Carbide grain (colour will be grey/blue) Ideal for wet sanding.

RAZER GOLD DISCS - PSA

5" No Hole PSA



| Grit | Art No. | P. Qty |
|------|--------------|--------|
| 40 | 563.540 | 50 |
| 60 | 563.560 | |
| 80 | 563.580 | 100 |
| 100 | 563.5100 | |
| 120 | 563.5120 | |
| 150 | 563.5150 | |
| 180 | 563.5180 | |
| 220 | 563.5220 | |
| 240 | 563.5240 | |
| 280 | 563.5280 | |
| 320 | 563.5320 | |
| 400 | 563.5400 | |
| 600 | 563.5600 | |
| 800 | 563.5800 | |
| 800 | 563.5800SC*† | |
| 1200 | 563.51200*† | |
| 1500 | 563.51500*† | |
| 3000 | 563.53000*† | |

6" No Hole PSA



| Grit | Art No. | P. Qty |
|------|--------------|--------|
| 40 | 565.640 | 50 |
| 60 | 565.660 | |
| 80 | 565.680 | 100 |
| 100 | 565.6100 | |
| 120 | 565.6120 | |
| 150 | 565.6150 | |
| 180 | 565.6180 | |
| 220 | 565.6220 | |
| 240 | 565.6240 | |
| 320 | 565.6320 | |
| 400 | 565.6400 | |
| 600 | 565.6600 | |
| 800 | 565.6800 | |
| 800 | 565.6800SC*† | |
| 1200 | 565.61200*† | |
| 1500 | 565.61500*† | |
| 3000 | 565.63000*† | |

5" 5 Hole PSA



| Grit | Art No. | P. Qty |
|------|-----------------|--------|
| 40 | 563.5..540* | 50 |
| 80 | 563.5..580 | |
| 100 | 563.5..5100* | 100 |
| 120 | 563.5..5120* | |
| 150 | 563.5..5150 | |
| 180 | 563.5..5180* | |
| 220 | 563.5..5220* | |
| 280 | 563.5..5280* | |
| 320 | 563.5..5320* | |
| 400 | 563.5..5400* | |
| 500 | 563.5..5500* | |
| 600 | 563.5..5600* | |
| 800 | 563.5..5800* | |
| 800 | 563.5..5800SC*† | |
| 1200 | 563.5..51200*† | |

6" 6 Hole PSA



| Grit | Art No. | P. Qty |
|------|-----------------|--------|
| 40 | 565.6..640 | 50 |
| 60 | 565.6..660* | |
| 80 | 565.6..680 | 100 |
| 100 | 565.6..6100* | |
| 120 | 565.6..6120* | |
| 150 | 565.6..6150* | |
| 180 | 565.6..6180 | |
| 220 | 565.6..6220 | |
| 280 | 565.6..6280* | |
| 320 | 565.6..6320 | |
| 400 | 565.6..6400 | |
| 600 | 565.6..6600 | |
| 800 | 565.6..6800* | |
| 800 | 565.6..6800SC*† | |
| 1200 | 565.6..61200*† | |

5" 8 Hole PSA



| Grit | Art No. | P. Qty |
|------|-----------------|--------|
| 40 | 563.8..540* | 50 |
| 60 | 563.8..560* | |
| 80 | 563.8..580* | 100 |
| 100 | 563.8..5100* | |
| 120 | 563.8..5120* | |
| 150 | 563.8..5150* | |
| 180 | 563.8..5180* | |
| 220 | 563.8..5220* | |
| 280 | 563.8..5280* | |
| 320 | 563.8..5320* | |
| 400 | 563.8..5400* | |
| 600 | 563.8..5600* | |
| 800 | 563.8..5800* | |
| 800 | 563.8..5800SC*† | |
| 1200 | 563.8..51200*† | |

6" 8 Hole PSA



| Grit | Art No. | P. Qty |
|------|----------------|--------|
| 40 | 565.8..640* | 50 |
| 60 | 565.8..660* | |
| 80 | 565.8..680* | 100 |
| 100 | 565.8..6100* | |
| 120 | 565.8..6120* | |
| 150 | 565.8..6150* | |
| 180 | 565.8..6180* | |
| 220 | 565.8..6220* | |
| 280 | 565.8..6280* | |
| 320 | 565.8..6320* | |
| 400 | 565.8..6400* | |
| 600 | 565.8..6600* | |
| 800 | 565.8..6800* | |
| 1200 | 565.8..61200*† | |

* Available OnDemand

† Silicon Carbide grain (colour will be grey/blue) Ideal for wet sanding.

RAZER GOLD SHEETS

9" x 11" Sheets



Aluminum Oxide

| Grit | Art No. | P. Qty |
|------|----------------------|--------|
| 40 | 566.911.40 | 25 |
| 60 | 566.911.60 | |
| 80 | 566.911.80 | |
| 100 | 566.911.100 | |
| 120 | 566.911.120 | |
| 150 | 566.911.150 | |
| 180 | 566.911.180 | |
| 220 | 566.911.220 | |
| 240 | 566.911.240 | |
| 320 | 566.911.320 | |
| 400 | 566.911.400 | |
| 600 | 566.911.600 | |
| 1500 | 566.911.1500 | |
| 2000 | 566.911.2000* | |
| 2500 | 566.911.2500* | |

Wet/Dry Silicon Carbide

| Grit | Art No. | P. Qty |
|------|-----------------------|--------|
| 220 | 566.W911.220* | 25 |
| 1200 | 566.W911.1200 | |
| 1500 | 566.W911.1500* | |
| 3000 | 566.W911.3000 | |

Applications:

Shaping and finishing, dry paint sanding, between colour-coat sanding, primer, deburring, removing scratches, feather edging.

* Available by Special Order

† Silicon Carbide grain (colour will be grey/blue) Ideal for wet sanding.

RAZER GOLD SPEEDFILE

Speedfile Sheets



16" X 3" Hook & Loop

| Grit | Art No. | P. Qty |
|------|------------------|--------|
| 40 | 567.1640 | 50 |
| 60 | 567.1660 | |
| 80 | 567.1680 | |
| 100 | 567.16100 | |
| 120 | 567.16120 | |
| 150 | 567.16150 | |
| 180 | 567.16180 | |
| 220 | 567.16220 | |
| 240 | 567.16240 | |
| 280 | 567.16280 | |
| 320 | 567.16320 | |
| 400 | 567.16400 | |
| 600 | 567.16600 | |

17-1/4" X 3-3/4" Plain Backing

| Grit | Art No. | P. Qty |
|------|------------------|--------|
| 40 | 567.1740 | 50 |
| 60 | 567.1760 | |
| 80 | 567.1780 | |
| 100 | 567.17100 | |
| 120 | 567.17120 | |
| 180 | 567.17180 | |
| 320 | 567.17320 | |
| 600 | 567.17600 | |

Applications:

Shaping and finishing, dry paint sanding, primer sanding, deburring, removing scratches, feather edging.

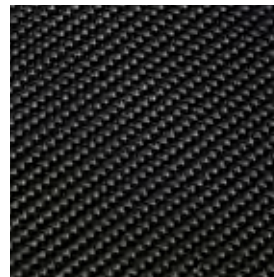
RAZER GOLD SANDPAPER - BACKING PADS



| Description | Attachment | Firmness | Art No. |
|-------------|-------------|----------|--------------------|
| 5" No Hole | Hook & Loop | HARD | 586.5.VH |
| | | MED/SOFT | 586.5.VMS |
| | PSA | HARD | 586.5.PH |
| | | MED/SOFT | 586.5.PMS |
| 5" 5 Hole | Hook & Loop | HARD | 586.55.VH* |
| | | MED/SOFT | 586.55.VMS* |
| | PSA | HARD | 586.55.PH* |
| | | MED/SOFT | 586.55.PMS* |
| 5" 8 Hole | Hook & Loop | HARD | 586.58.VH* |
| | PSA | HARD | 586.58.PH* |
| 6" No Hole | Hook & Loop | HARD | 586.6.VH |
| | | MED/SOFT | 586.6.VMS |
| | PSA | HARD | 586.6.PH |
| | | MED/SOFT | 586.6.PMS |
| 6" 6 Hole | Hook & Loop | HARD | 586.66.VH |
| | | MED/SOFT | 586.66.VMS |
| | PSA | HARD | 586.66.PH* |
| 6" 8 Hole | Hook & Loop | HARD | 586.68.VH* |
| | | MED/SOFT | 586.68.VMS* |
| | PSA | HARD | 586.68.PH* |
| | | MED/SOFT | 586.68.PMS* |

Made of professional grade molded urethane, Razer Gold backing pads are the ideal size, weight, and balance, ensuring unbeatable performance every time. While most brands use a 3-stud rivet system, Würth Razer Gold Backing Pads feature a 4-stud assembly for superior strength and balance.

Composed of industry leading thermal fibreglass, these pads resist heat, flexing, impact and overall sanding abuse. Our PSA backing is one of the heaviest and most durable on the market, while the hook and loop system of our Velour style pads is top rated when it comes to strength and melting point.



Hook & Loop



PSA

* Available OnDemand

Recommended:

6" Heavy Duty Orbital Sander **Art. No. 703.307**



RAZER GOLD SAMPLE KITS



5" No Hole Hook & Loop

Art. No. 562.KIT5NHV*

Contents:

| Grit | Art No. | P. Qty |
|------|-----------------|--------|
| 80 | 562.580 | 20 |
| 120 | 562.5120 | |
| 220 | 562.5220 | |
| 320 | 562.5320 | |
| 400 | 562.5400 | |
| 600 | 562.5600 | |

5" No Hole PSA

Art. No. 563.KIT5NHP*

Contents:

| Grit | Art No. | P. Qty |
|------|-----------------|--------|
| 80 | 563.580 | 20 |
| 120 | 563.5120 | |
| 220 | 563.5220 | |
| 320 | 563.5320 | |
| 400 | 563.5400 | |
| 600 | 563.5600 | |

5" 5 Hole Hook & Loop

Art. No. 562.KIT55HV*

Contents:

| Grit | Art No. | P. Qty |
|------|--------------------|--------|
| 80 | 562.5..580 | 20 |
| 120 | 562.5..5120 | |
| 220 | 562.5..5220 | |
| 320 | 562.5..5320 | |
| 400 | 562.5..5400 | |
| 600 | 562.5..5600 | |

5" 5 Hole PSA

Art. No. 563.KIT55HP*

Contents:

| Grit | Art No. | P. Qty |
|------|--------------------|--------|
| 80 | 563.5..580 | 20 |
| 120 | 563.5..5120 | |
| 220 | 563.5..5220 | |
| 320 | 563.5..5320 | |
| 400 | 563.5..5400 | |
| 600 | 563.5..5600 | |

6" No Hole PSA

Art. No. 565.KIT6NHP*

Contents:

| Grit | Art No. | P. Qty |
|------|-----------------|--------|
| 80 | 565.680 | 20 |
| 120 | 565.6120 | |
| 220 | 565.6220 | |
| 320 | 565.6320 | |
| 400 | 565.6400 | |
| 600 | 565.6600 | |

6" 6 Hole Hook & Loop

Art. No. 564.KIT66HV*

Contents:

| Grit | Art No. | P. Qty |
|------|--------------------|--------|
| 80 | 564.6..680 | 20 |
| 120 | 564.6..6120 | |
| 220 | 564.6..6220 | |
| 320 | 564.6..6320 | |
| 400 | 564.6..6400 | |
| 600 | 564.6..6600 | |

6" 6 Hole PSA

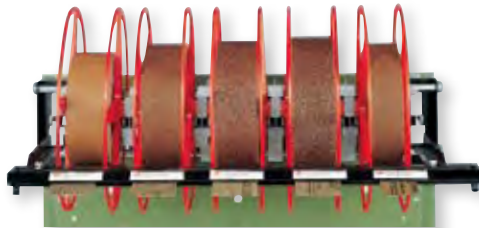
Art. No. 565.KIT66HP*

Contents:

| Grit | Art No. | P. Qty |
|------|--------------------|--------|
| 80 | 565.6..680 | 20 |
| 120 | 565.6..6120 | |
| 220 | 565.6..6220 | |
| 320 | 565.6..6320 | |
| 400 | 565.6..6400 | |
| 600 | 565.6..6600 | |

* Available OnDemand

ORSY 10 EMERY CLOTH



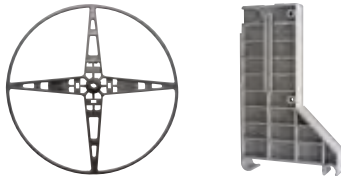
- Grits meet international FEPA standards
- The high-grade corundum (exceptionally pure aluminum oxide) is blended with tough bauxite emery
- Special high quality glue guarantees maximum grain adhesion
- The backing strip is made from tear resistant long fibre cotton
- Ideal for grinding and polishing work

| Grit | Width | | Length (metres) | Art. No. | P. Qty. |
|------|-------|--------|-----------------|-------------------|---------|
| | mm | inch | | | |
| 40 | 30 | 1-1/4" | 19 | 674.93040 | 1 Roll |
| 50 | 30 | 2" | 20 | 674.93050 | |
| | 50 | 2" | | 674.95050 | |
| 80 | 30 | 1-1/4" | 25 | 674.93080 | |
| | 40 | 1-1/2" | | 674.94080 | |
| | 50 | 2" | | 674.95080 | |
| 120 | 30 | 1-1/4" | 28 | 674.930120 | |
| | 50 | 2" | | 674.950120 | |
| 180 | 50 | 1-1/4" | 28 | 674.950180 | |
| | 30 | 1-1/4" | | 674.930180 | |
| 320 | 50 | 2" | | 674.950320 | |
| 400 | 50 | 2" | | 674.950400 | |

Recommended:

Empty Dispenser **Art. No. 956.1090**

REPLACEMENT PARTS FOR ORSY 10 EMERY CLOTH REEL SYSTEM



| Description | Art. No. | P. Qty |
|-------------------------|------------------|--------|
| Replacement Star Small | 956.10901 | 1 |
| Replacement Star Large | 956.10902 | |
| Replacement Coil Holder | 956.10903 | |

EMERY PAPER - 9" X 11"



Features:

- Natural emery abrasive
- Flexible cotton backing allows for easy manipulation of shapes and contours

Applications:

Used for removing light burrs and cleaning and polishing metals. May be used dry or with oil.

| Description | Grit | Art. No. | P. Qty |
|-------------|------|------------------|--------|
| Coarse | 80 | 570.10887 | 50 |
| Medium | 120 | 570.10886 | |
| Fine | 180 | 570.10885 | |

STANDARD ABRASIVE ASSORTMENT



Art. No. 965.585100 - 61 pcs.

| Art. No. | Description | Qty. |
|------------|--|------|
| 578.607660 | MINI FLAP DISC, ZIRCONIA - TYPE R - 3" 60G | 2 |
| 585.2210 | MINI RESIN FIBRE DISC, ZEE SUPREME - TYPE R - 2" 24G | 5 |
| 585.41 | TYPE R DISC HOLDER/MANDREL - 2" | 1 |
| 585.4161 | QUICK STRIP PURPLE PRO - TYPE R - 3" | 2 |
| 585.4209 | SURFACE CONDITIONING DISC - TYPE R - 2" EXTRA COARSE | 5 |
| 585.4210 | SURFACE CONDITIONING DISC - TYPE R - 2" COARSE | 10 |
| 585.4211 | SURFACE CONDITIONING DISC - TYPE R - 2" MEDIUM | 5 |
| 585.4230 | SURFACE CONDITIONING DISC - TYPE R - 2" FINE | 5 |
| 585.43 | TYPE R DISC HOLDER/MANDREL - 3" | 1 |
| 585.4320 | SURFACE CONDITIONING DISC - TYPE R - 3" MEDIUM | 5 |
| 585.598422 | Q-CHANGE POWER ZIRCONIA DISC - TYPE R - 2" 36G | 5 |
| 585.6336 | MINI RESIN FIBRE DISC, A/O - TYPE R - 3" 36G | 5 |
| 585.7225 | MINI RESIN FIBRE DISC, CERAMIC - TYPE R - 2" 50G | 5 |
| 672.010318 | FAN GRIND WHEEL A/O - 30MM x 15MM x 6MM 80G | 5 |

PREMIUM ABRASIVE ASSORTMENT



Art. No. 965.585200 - 85 pcs.

| Art. No. | Description | Qty. |
|------------|--|------|
| 585.2161 | BLUE QUICK STRIP DISC - TYPE R - 3" | 10 |
| 585.2225 | MINI RESIN FIBRE DISC, ZEE SUPREME - TYPE R - 2" 50G | 5 |
| 585.320 | NYLON FLEECE WHEEL WITH SHANK - 2-1/2" | 1 |
| 585.3315 | MINI RESIN FIBRE DISC, ALUMAX - TYPE R - 3" 36G | 5 |
| 585.41 | TYPE R DISC HOLDER/MANDREL - 2" | 1 |
| 585.4160 | QUICK STRIP PURPLE PRO - TYPE R - 2" | 2 |
| 585.4209 | SURFACE CONDITIONING DISC - TYPE R - 2" EXTRA COARSE | 5 |
| 585.4211 | SURFACE CONDITIONING DISC - TYPE R - 2" MEDIUM | 5 |
| 585.43 | TYPE R DISC HOLDER/MANDREL - 3" | 1 |
| 585.598422 | Q-CHANGE POWER ZIRCONIA DISC - TYPE R - 2" 36G | 5 |
| 585.598528 | Q-CHANGE POWER ZIRCONIA DISC - TYPE R - 3" 120G | 5 |
| 585.6224 | MINI RESIN FIBRE DISC, A/O - TYPE R - 2" 24G | 5 |
| 585.7235 | MINI RESIN FIBRE DISC, CERAMIC - TYPE R - 2" 80G | 5 |
| 585.936 | TRIM-CUT GRINDING DISC, A/O - 3" 36G | 5 |
| 585.94320 | TRIM-CUT SURFACE CONDITIONING DISC - 3" MEDIUM | 5 |
| 588.032 | CARTRIDGE ROLL, A/O - 3/8" x 1-1/2" x 1/8" 80G | 5 |
| 588.200 | MANDREL FOR CARTRIDGE ROLL - D 1/8" x L 4" | 1 |
| 672.010316 | FAN GRIND WHEEL A/O - 30MM x 15MM x 6MM, 60G | 5 |
| 673.22275 | RED CERAMIC QUICK STRIP DISC - 3" | 5 |
| 715.5859 | 1/4" MANDREL FOR TRIM-CUT DISC | 2 |

ABRASIVE STARTER ASSORTMENT



Art. No. 965.585600 - 133 pcs.

| Art. No. | Description | Qty. |
|------------|---|------|
| 585.2160 | BLUE QUICK STRIP DISC - TYPE R - 2" | 10 |
| 585.41 | TYPE R DISC HOLDER/MANDREL - 2" | 1 |
| 585.4210 | SURFACE CONDITIONING DISC - TYPE R - 2" COARSE | 50 |
| 585.6236 | mini resin fibre disc, A/O - type r - 2" 36 grit | 50 |
| 588.031 | CARTRIDGE ROLL A/O - 3/8" X 1-1/2" X 1/8" - 60 GRIT | 5 |
| 670.7515 | CUT OFF DISC, A/O - 3" x 1/16" x 3/8" | 10 |
| 672.010316 | FAN GRIND WHEEL, A/O - 30MM x 15MM x 6MM, 60 GRIT | 5 |
| 714.30016 | 1" KNOTTED END BRUSH - 0.01 WIRE | 2 |

2" SUPREME ABRASIVE ASSORTMENT



Art. No. 965.585500 - 100 pcs.

| Art. No. | Description | Qty. |
|------------|--|------|
| 585.2215 | MINI RESIN FIBRE DISC, ZEE SUPREME - TYPE R - 2" 36 GRIT | 25 |
| 585.2230 | MINI RESIN FIBRE DISC, ZEE SUPREME - TYPE R - 2" 60 GRIT | |
| 585.598422 | Q-CHANGE POWER ZIRCONIA DISC - TYPE R - 2" 36 GRIT | |
| 585.598425 | q-change power zirconia disc - type R - 2" 60 GRIT | |

2" CARGO ABRASIVE ASSORTMENT



Art. No. 965.585300 - 200 pcs.

| Art. No. | Description | Qty. |
|----------|--|------|
| 585.4210 | SURFACE CONDITIONING DISC - TYPE R - 2" COARSE | 50 |
| 585.4211 | SURFACE CONDITIONING DISC - TYPE R - 2" MEDIUM | |
| 585.6224 | MINI RESIN FIBRE DISC, A/O - TYPE R - 2" 24 GRIT | |
| 585.6236 | MINI RESIN FIBRE DISC, A/O - TYPE R - 2" 36 GRIT | |

3" CARGO ABRASIVE ASSORTMENT



Art. No. 965.585400 - 100 pcs.

| Art. No. | Description | Qty. |
|----------|--|------|
| 585.4310 | SURFACE CONDITIONING DISC - TYPE R - 3" COARSE | 25 |
| 585.4320 | Surface conditioning disc - type R - 3" Medium | |
| 585.6324 | MINI RESIN FIBRE DISC, A/O - TYPE R - 3" 24 GRIT | |
| 585.6336 | MINI RESIN FIBRE DISC, A/O - TYPE R - 3" 36 GRIT | |

MINI ABRASIVE ASSORTMENT



Art. No. 965.5850

| Description | Qty | Art. No. |
|--|-----------------|-------------------|
| Surface Conditioning Disc Type R 2" extra coarse | 10 | 585.4209 |
| Surface Conditioning Disc Type R 2" coarse | | 585.4210 |
| Surface Conditioning Disc Type R 2" medium | | 585.4211 |
| Surface Conditioning Disc Type R 2" fine | | 585.4230 |
| Surface Conditioning Disc Type R 3" coarse | | 585.4310 |
| Surface Conditioning Disc Type R 3" medium | | 585.4320 |
| A/O Type R Mini Resin Fibre Disc 2" 24 g | | 585.6224 |
| A/O Type R Mini Resin Fibre Disc 2" 36 g | | 585.6236 |
| A/O Type R Mini Resin Fibre Disc 2" 50 g | | 585.6250 |
| A/O Type R Mini Resin Fibre Disc 2" 120 g | | 585.62120 |
| A/O Type R Mini Resin Fibre Disc 3" 24 g | | 585.6324 |
| A/O Type R Mini Resin Fibre Disc 3" 36 g | | 585.6336 |
| A/O Type R Mini Resin Fibre Disc 3" 50 g | | 585.6350 |
| A/O Type R Mini Resin Fibre Disc 3" 120 g | | 585.6399 |
| Fan Grind Wheel 40 x 20 (80 grit) | | 672.010428 |
| Fan Grind Wheel 40 x 20 (60 grit) | | 672.010426 |
| Cut Off Wheel 3 1/8" x 1/16" | 670.7515 | |
| Type R Mandrel 2" | 1 | 585.41 |
| Type R Mandrel 3" | | 585.43 |

AUTOMOTIVE ABRASIVE ASSORTMENT



Art. No. 965.588 - 150 pcs

Comes with a 1/4" Medium Die Grinder

| Description | Qty | Art. No. | |
|--|----------------|------------------|----------------|
| Surface Conditioning Disc Type R 2" extra coarse | 5 | 585.4209 | |
| Surface Conditioning Disc Type R 2" coarse | | 585.4210 | |
| Surface Conditioning Disc Type R 2" medium | | 585.4211 | |
| Surface Conditioning Disc Type R 2" fine | | 585.4230 | |
| Surface Conditioning Disc Type R 3" coarse | | 585.4310 | |
| Surface Conditioning Disc Type R 3" medium | | 585.4320 | |
| A/O Type R Mini Resin Fibre Disc 2", 24 g | | 585.6224 | |
| A/O Type R Mini Resin Fibre Disc 2", 36 g | | 585.6236 | |
| A/O Type R Mini Resin Fibre Disc 2", 50 g | | 585.6250 | |
| A/O Type R Mini Resin Fibre Disc 2", 120 g | | 585.62120 | |
| A/O Type R Mini Resin Fibre Disc 3", 24 g | | 585.6324 | |
| A/O Type R Mini Resin Fibre Disc 3", 36 g | | 585.6336 | |
| A/O Type R Mini Resin Fibre Disc 3", 50 g | | 585.6350 | |
| A/O Type R Mini Resin Fibre Disc 3", 120 g | | 585.6399 | |
| A/O Cartridge roll 3/8" x 1 1/2" x 1/8" (80 grit) | | 25 | 588.032 |
| A/O Cartridge roll 3/8" x 1 1/2" x 1/8" (120 grit) | | | 588.033 |
| A/O Cartridge roll 1/2" x 1 1/2" x 1/8" (80 grit) | 588.042 | | |
| Type R Mandrel 2" | 1 | 585.41 | |
| Type R Mandrel 3" | | 585.43 | |
| Cartridge Mandrel 2-3/4" | | 588.100 | |
| Cartridge Mandrel 4" | | 588.200 | |
| 1/4" Medium Die Grinder | | 703.210 | |

16 - Compartment drawer Art. No. 955.916

ORSY RACK FOR CUTTING/GRINDING WHEELS



Art. No. 961.9102

20" x 29" x 9" (W x H x D)

03 ELECTRICAL

3 Electrical Chemicals

7 Cables, Wires, Ties & Tools

- 7 Battery Cable
- 8 Trailer Lighting Cable
- 8 Wire
- 11 Hand tools
- 13 Cable Ties & Mounts
- 24 Clips, Loom & Sleeve

27 Heat Shrink Tubing & Heat Guns

31 Grommets

32 Fuses, Fuse Holders & Relays

38 Connectors, Terminals, Lugs & Tools

- 38 Heat Shrink Connectors
- 44 Insulated Connectors
- 47 Non-Insulated Connectors
- 49 PVC Solderless Connectors
- 51 Premium Nylon Connectors And Terminals
- 53 Scotch Locks, Tap Connectors & Wire Nuts
- 54 Metripack Terminals
- 57 Connector & Terminal Assortments
- 58 Ferrules
- 59 Lugs & lug Assortments
- 65 Contact Tools, Testers, Files & Cleaners
- 70 Battery Terminals & Accessories

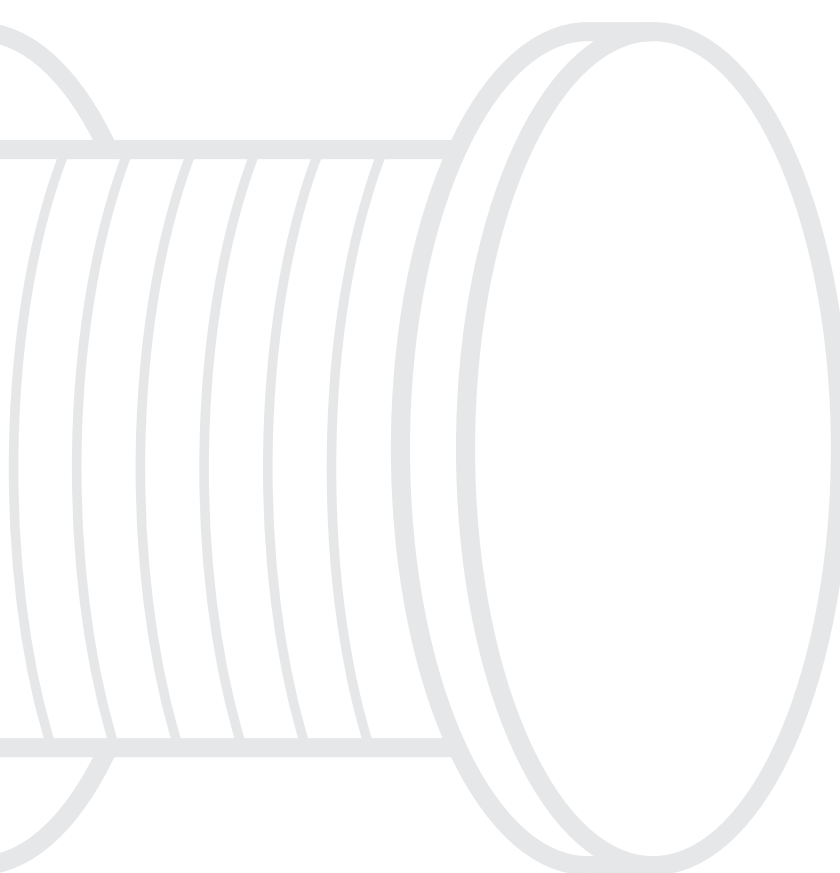
76 Deutsch Connectors & Tools

79 AMP Superseal Connectors & Accessories

81 Solder, Slugs & Tools




















83 Batteries

84 Electric Essential Service Kit



ELECTRICAL WIRE/CONNECTOR IDENTIFICATION

| Wire Conversion Table - Bare Conductor | | |
|--|--------------|----------|
| Gauge | Dia (inches) | Dia (mm) |
| 4/0 | 0.460 | 11.68 |
| 3/0 | 0.410 | 10.41 |
| 2/0 | 0.365 | 9.27 |
| 1/0 | 0.325 | 8.26 |
| 1 | 0.289 | 7.34 |
| 2 | 0.258 | 6.55 |
| 3 | 0.229 | 5.82 |
| 4 | 0.204 | 5.18 |
| 5 | 0.182 | 4.62 |
| 6 | 0.162 | 4.11 |
| 7 | 0.144 | 3.66 |
| 8 | 0.128 | 3.25 |
| 9 | 0.114 | 2.90 |
| 10 | 0.102 | 2.59 |
| 11 | 0.091 | 2.31 |
| 12 | 0.081 | 2.06 |
| 13 | 0.072 | 1.83 |
| 14 | 0.064 | 1.63 |
| 15 | 0.057 | 1.45 |
| 16 | 0.051 | 1.30 |
| 17 | 0.045 | 1.14 |
| 18 | 0.040 | 1.02 |
| 19 | 0.036 | 0.91 |
| 20 | 0.032 | 0.81 |
| 21 | 0.0285 | 0.72 |
| 22 | 0.0253 | 0.64 |
| 23 | 0.0226 | 0.57 |
| 24 | 0.0201 | 0.51 |

| Stud Size Chart | | |
|---|--------|-------|
| | Inches | mm |
|  | #0 | 1.52 |
|  | #1 | 1.85 |
|  | #2 | 2.18 |
|  | #3 | 2.51 |
|  | #4 | 2.85 |
|  | #5 | 3.18 |
|  | #6 | 3.50 |
|  | #8 | 4.17 |
|  | #10 | 4.83 |
|  | #12 | 5.50 |
|  | 1/4 | 6.35 |
|  | 5/16 | 7.93 |
|  | 3/8 | 9.53 |
|  | 7/16 | 11.10 |
|  | 1/2 | 12.70 |
|  | 5/8 | 15.90 |
|  | 3/4 | 19.10 |
|  | 7/8 | 22.23 |
|  | 1 | 25.40 |

BATTERY TERMINAL PROTECTOR



Art. No. 890.104 - 150 mL

Durable protection for battery terminals. Resistant to variations in temperature.

- Durable temperature resistant film
- Protects charging clips
- Protects electrical push-on-connectors against corrosion and climactic effects as well as battery acid
- Prevents transition resistance and voltage drop, thus extending the battery life
- Colour: Blue
- Similar product to Ford Battery Terminal Protector

Note: Do not spray on paint! Remove residue on the paint immediately with brake cleaner, otherwise spots could appear.

BATTERY TERMINAL CLEANER



Art. No. 890.104150 475 g

High performance non-chlorinated formula cleans battery terminals and posts

- This advanced formulation serves three applications in a single product:
 - Cleans acid deposits
 - Detects battery leaks
 - Neutralizes acid
- As a cleaner, the product's foaming action penetrates and emulsifies dirt, grease and deposits
- As a detector, the foamy, light red formula turns blue in the presence of acid
- As a neutralizer, additives in the formula increase the pH to a safer level
- Excellent for use on batteries, terminals, cables, brackets and housings for everything including golf carts, boats, tractors, fork- lifts, construction equipment, floor scrubbers and more

BATTERY TERMINAL GREASE



Art. No. 890.1041 93 g

Highly adhesive, water-resistant red paste protects battery poles and terminals from oxidation for extended periods

Use: Clean battery pole thoroughly with mechanical means, then apply battery terminal grease and spread around.

TEMPERATURE REDUCTION SPRAY



Art. No. 890.001200 236 g

A non-flammable freezer spray for universal use in repair and assembly work and for troubleshooting.

- Essential for tracing electrical faults and for troubleshooting equipment parts with temperature-sensitive components.
- Ideal for removal of chewing gum residue, animal excrement and candle wax residue.
- Evaporates completely without leaving any residue on the treated surface.
- Good material compatibility with the most common substrates. (Compatibility test is recommended for best results)
- Application on live electrical parts is only recommended at low voltages [$<50V$ (AC) and $<120V$ (DC)]. In all other cases ensure that the electrical system in question is completely disconnected from the power supply.
- Spray at a distance of 2cm-8cm (1" - 3") directly onto the area to be treated.
- There is no risk of explosion or fire under practical application conditions.

DIELECTRIC GREASE



Art. No. 893.844100 85 g

A superior high thermal conductivity silicone heat transfer compound, offering excellent protection

- For use in electrical insulation, damping and lubrication of brass components and O-Rings
- High thermal conductivity
- Withstands temperatures to 204 °C (400 °F)
- Silicone-based compound
- Lubricates rubber and plastic
- Protects electrical components
- Prevents oxidation of electrical contacts or terminals
- Excellent for light bulb sockets

CONTACT SPRAY



Art. No. 890.100 223 g

Helps eliminate ignition problems

Stops and avoids any faults in the ignition and electrical system caused by dampness, ex: ignition coils, distributors, spark plug cables, connectors, etc.

CONTACT CLEANERS AND PROTECTORS



Art. No. 893.65 154 g

Contact SW **Electrical Cleaning Spray**

- Special spray solvent for contacts and electronic parts
- Removes colophonium residues
- Will clean badly soiled electrical appliances, electrical construction parts, relays and plug strips
- Does not attack plastic or most common construction materials



Art. No. 893.70 167 g

Contact SL **Protective Lacquer**

- Insulates, protects and seals
- Insulates wire connections and push-on connectors
- Protects against electrical shorts in high and low power circuits
- Prevents or eliminates fine shorts in transformer motors
- Seals battery cables and protects against corrosion
- Seals against penetration of humidity
- Shiny, flexible finish
- Protects against water, weak acids and alkalis and atmospheric penetration
- Adheres to metal, e.g. copper, brass, steel, chrome and aluminum as well as plastic, wood and cardboard
- Remove overspray with acetone
- Temperature range: -70 °C to +100 °C (-94 °F to +212 F)



Art. No. 893.60 159.4 g

Contact OL **Oxidation Remover**

- Cleaning agent for electrical contacts
- Will clean all kinds of electrical contacts
- Removes oxide and sulphide layers, resin, oil and dirt
- Eliminates high resistance
- Eliminates crackling noises immediately
- Does not affect usual construction materials
- Contact OL must have dried off completely before the electrical system can be put back into operation!



Art. No. 893.61 153 g

Contact OS **Oxidation Protection**

- For new electrical contacts, switches and electromechanical engine parts
- Long term oxidation prevention
- Excellent lubricator for small engine parts
- Will remove dirt, resin, oil and metal deposits

STABILANT 22A



Art. No. 893.622 - 15 ml

Stabilant 22A offers the reliability of a soldered joint without bonding the contacting surfaces together on connectors in electromechanical contact applications

Application Areas:

Electronic ignition systems, prevent sensor malfunctions, electric rear-view mirrors, alternators and/or generators, solenoid door and trunk locks, horn circuits, wiring harnesses, door activator switches, fuses, power windows, radios, tape decks and/or speakers, diagnostic equipment

Benefits:

- Cuts down on costly replacement of sensors, switches, motors, etc.
- Biodegradable
- Nontoxic
- Nonflammable
- Not prone to evaporation
- Will not crosslink

Characteristics:

- Enhances conductivity within a contact without causing electrical leakage between adjacent contacts
- Provides improved connector contact
- Avoids voltage drops, which can cause connector overheating
- Reduces the possibility of premature fuse failure
- Interconnects speaker leads; ensures reliability and reduces distortion
- Colour: Clear/15 ml

AIR DUSTER



Art. No. 890.500856 284 g

Compressed air spray removes dust effortlessly from inaccessible places.

For simple handling

- Always ready for use, no compressor, electrical cables or compressed air hoses necessary
- Precise spraying with long spray tube

For high pressure and density

- Time-saving cleaning and removal of dust
- Intensive and powerful air flow

For zero residue

- Does not attack surface finishes
- Moisture free
- Does not contain VOC's

Areas of Application:

Suitable for maintenance work and repairs of data processing equipment, printers, copiers, electronic components and modules, fine mechanisms, optical instruments, cameras, lenses, projectors, housings, automotive electronics, magnetic tapes, magnetic heads, measuring equipment, precision parts, microscopes, watches and model making

Instructions for Use:

Insert spray tube in the opening of the spray valve. Always hold can vertically when spraying; do not invert can while spraying. The can retains its optimal pressure if the spray valve is operated in short bursts.

Note: Do not spray into eyes, mouth or other body openings. Do not spray onto hot surfaces.

PREMIUM BATTERY CABLE



| Description | Size | Length | Art. No. |
|-------------|------|--------|---------------|
| Black | 6 GA | 50 FT | 772.61 |
| | 4 GA | 50 FT | 772.41 |
| | 2 GA | 25 FT | 772.21 |
| | 1/0 | 25 FT | 772.10 |
| | 2/0 | 25 FT | 772.20 |
| Red | 6 GA | 50 FT | 772.6 |
| | 4 GA | 50 FT | 772.4 |
| | 2 GA | 25 FT | 772.2 |
| | 1 GA | 25 FT | 772.11 |

Note: Fine strand technology makes this cable extremely flexible.

- Fine strand 100% copper wire
- Fine stranding makes it more flexible than standard battery cable
- Excellent resistance to oil, acid, UV light, ozone and water
- Superior abrasion resistance and flexibility
- Copper conductor for maximum conductivity

Specifications:

Jacket

- Insulated with oil & water resistant (SGT) thermoplastic rubber compound
- A water resistant safety insulator separates the outer sheath
- Temperature rated to 105°C
- Meets SAE J378C/J1127
- Meets UL 62 for SJE, SE, SEO

Applications:

- Automotive engine parts and connectors where superior performance in a wide range of operating conditions and environments apply.
- Marine applications

STANDARD BATTERY CABLE



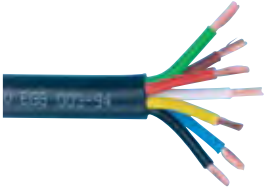
| Description | Size | Length | Art. No. |
|-------------|------|--------|-----------------|
| Black | 8 GA | 50 FT | 772.08 |
| | 6 GA | 50 FT | 772.061 |
| | 4 GA | 50 FT | 772.041 |
| | 2 GA | 25 FT | 772.021 |
| | 1 GA | 25 FT | 772.01 |
| | 1/0 | 25 FT | 772.010 |
| | 2/0 | 25 FT | 772.020 |
| | 3/0 | 25 FT | 772.030 |
| | 4/0 | 25 FT | 772.040 |
| | Red | 8 GA | 50 FT |
| 6 GA | | 50 FT | 772.06 |
| 4 GA | | 50 FT | 772.04 |
| 2 GA | | 25 FT | 772.02 |
| 1 GA | | 25 FT | 772.011 |
| 1/0 | | 25 FT | 772.0101 |
| 2/0 | | 25 FT | 772.0201 |
| 4/0 | | 25 FT | 772.0401 |

Features:

- PVC Insulation resists abrasion, fuel, oil, acid and salt
- Insulation is flame retardant
- Meets or exceeds SAU J1127, SGT type 221°F (105°C), 8 Gauge Exceeds J1128
- Rated 60V
- Meets AWG specifications
- Copper conductor for maximum conductivity

| Size | Colour Coded Stripe |
|------|---------------------|
| 8 GA | Grey |
| 6 GA | Grey |
| 4 GA | Grey |
| 2 GA | Green |
| 1 GA | Pink |
| 1/0 | Black |
| 2/0 | Orange |
| 3/0 | Purple |
| 4/0 | Yellow |

UTILITY TRAILER LIGHTING CABLE



- For truck, bus, farm construction and commercial applications
- For use at 50 volts or less
- Fine stranded copper conductor for maximum conductivity and flexibility
- Heavy duty PVC outer jacket protects against abrasion and resists moisture, oil and salt damage.
- Meets or exceeds S.A.E. J1128 & ATA specifications
- Flexible for easy routing, cold weather rated
- Colour coded conductors for easy circuit identification
- Temperature range: -40°C to +80°C (-40°F to 176°F)

| Size | Gauge | Art. No. |
|---------|---|-----------------|
| 100 ft. | 7 strands - 14GA | 772.714 |
| 100 ft. | 6 strands - 14GA 1 strand - 12GA (white) | 772.7140 |

PREMIUM SXL WIRE



- Premium grade cross linked polyethylene (XLPE) insulation provides excellent durability and heat resistance
- Designed for harsh, hot environments
- For use at 50 volts or less
- Insulation rated -51°C to 125°C (-60°F to 257°F)
- Meets and exceeds SAE J1128
- Bare copper conductor
- Solid plastic insulation
- Single conductor
- Great flexibility
- Permanent colour
- Resistant to oil, grease, gasoline and most other chemicals
- Will not melt when exposed to heat

| Description | Size | Length | Art. No. |
|-------------|-------|------------------|------------------|
| Yellow | 14 GA | 100 FT | 774.11.14 |
| | 16 GA | | 774.11.16 |
| | 18 GA | | 774.11.18 |
| Red | 12 GA | | 774.22.12 |
| | 14 GA | | 774.22.14 |
| | 16 GA | | 774.22.16 |
| Black | 18 GA | | 774.22.18 |
| | 12 GA | | 774.33.12 |
| | 14 GA | | 774.33.14 |
| Green | 16 GA | | 774.33.16 |
| | 18 GA | | 774.33.18 |
| | 12 GA | | 774.44.12 |
| Blue | 14 GA | | 774.44.14 |
| | 16 GA | | 774.44.16 |
| | 18 GA | | 774.44.18 |
| White | 12 GA | | 774.55.12 |
| | 14 GA | | 774.55.14 |
| | 16 GA | | 774.55.16 |
| Brown | 18 GA | 774.55.18 | |
| | 12 GA | 774.66.12 | |
| | 14 GA | 774.66.14 | |
| White | 16 GA | 774.66.16 | |
| | 18 GA | 774.66.18 | |
| | 14 GA | 774.77.14 | |
| Brown | 16 GA | 774.77.16 | |
| | 18 GA | 774.77.18 | |

LOUDSPEAKER WIRE



Plastic insulated twin

| Gauge | Colour | No. of Strands | Dia (mm) | Roll Length (m) | Art. No. |
|-------|-----------|----------------|----------|-----------------|----------------|
| 18 | Brown/Red | 2 | 0.75 | 50 | 770.300 |

PARALLEL WIRE



PVC round jacket

| Gauge | Colour | No. of Strands | Dia (mm) | Roll Length (m) | Art. No. |
|-------|-----------|----------------|----------|-----------------|----------------|
| 15 | Black/Red | 2 | 1.5 | 25 | 770.202 |

PVC COATED PRIMARY WIRE - GPT



- Plastic coated primary wire is S.A.E. type GPT
- For use at 50 volts or less
- Insulation rated -40°F to 176°F (-40°C to 80°C)
- Meets and exceeds SAE J1128
- PVC insulation resists abrasion, fuel, oil, acid and salt
- Fine stranded copper conductor for maximum conductivity and flexibility

| Description | Size | Length | Art. No. |
|-------------|------------------|------------------|----------------------|
| Yellow | 10 GA | 100FT | 774.01.10 |
| | 12 GA | | 774.01.12 |
| | 14 GA | | 774.01.14 |
| | 16 GA | | 774.01.16 |
| | 18 GA | | 774.01.18 |
| | 20 GA | | 774.01.20 |
| | 22 GA | 774.01.22 | |
| | 14 GA | 1000 FT | 774.0114.1000 |
| | 16 GA | | 774.0116.1000 |
| | 8 GA | | 774.02.08 |
| 10 GA | 774.02.10 | | |
| Red | 12 GA | 100FT | 774.02.12 |
| | 14 GA | | 774.02.14 |
| | 16 GA | | 774.02.16 |
| | 18 GA | | 774.02.18 |
| | 20 GA | | 774.02.20 |
| | 22 GA | | 774.02.22 |
| | 14 GA | 1000 FT | 774.0214.1000 |
| | 16 GA | | 774.0216.1000 |
| | 8 GA | | 774.03.08 |
| | 10 GA | | 774.03.10 |
| Black | 12 GA | 100 FT | 774.03.12 |
| | 14 GA | | 774.03.14 |
| | 16 GA | | 774.03.16 |
| | 18 GA | | 774.03.18 |
| | 20 GA | | 774.03.20 |
| | 22 GA | | 774.03.22 |
| | 12 GA | 1000 FT | 774.0312.1000 |
| | 14 GA | | 774.0314.1000 |
| | 16 GA | | 774.0316.1000 |
| | 18 GA | | 774.0318.1000 |
| Green | 10 GA | 100 FT | 774.04.10 |
| | 12 GA | | 774.04.12 |
| | 14 GA | | 774.04.14 |
| | 16 GA | | 774.04.16 |
| | 18 GA | | 774.04.18 |
| | 20 GA | | 774.04.20 |
| | 22 GA | 774.04.22 | |
| | 14 GA | 1000 FT | 774.0414.1000 |
| | 16 GA | | 774.0416.1000 |
| | 10 GA | | 774.05.10 |
| 12 GA | 774.05.12 | | |

| Description | Size | Length | Art. No. | |
|-------------|------------------|------------------|----------------------|----------------------|
| Blue | 14 GA | 100FT | 774.05.14 | |
| | 16 GA | | 774.05.16 | |
| | 18 GA | | 774.05.18 | |
| | 20 GA | | 774.05.20 | |
| | 22 GA | | 774.05.22 | |
| | 16 GA | | 1000 FT | 774.0516.1000 |
| White | 10 GA | 100 FT | 774.06.10 | |
| | 12 GA | | 774.06.12 | |
| | 14 GA | | 774.06.14 | |
| | 16 GA | | 774.06.16 | |
| | 18 GA | | 774.06.18 | |
| | 20 GA | | 774.06.20 | |
| | 22 GA | 774.06.22 | | |
| | 14 GA | 1000 FT | 774.0614.1000 | |
| | 16 GA | | 774.0616.1000 | |
| | 10 GA | | 774.07.10 | |
| 12 GA | 774.07.12 | | | |
| Brown | 14 GA | 100 FT | 774.07.14 | |
| | 16 GA | | 774.07.16 | |
| | 18 GA | | 774.07.18 | |
| | 22 GA | | 774.07.22 | |
| | 14 GA | | 1000 FT | 774.0714.1000 |
| | 16 GA | | | 774.0716.1000 |
| Orange | 14 GA | 100 FT | 774.08.14 | |
| | 16 GA | | 774.08.16 | |
| | 18 GA | | 774.08.18 | |
| | 20 GA | | 774.08.20 | |
| | 22 GA | | 774.08.22 | |
| | 16 GA | | 1000 FT | 774.0816.1000 |
| Pink | 14 GA | 100 FT | 774.10.14 | |
| | 16 GA | | 774.10.16 | |
| | 18 GA | | 774.10.18 | |

AUTOMOTIVE WIRE



Plastic reel

| | 100m/roll | 100m/roll | 100m/roll | 50m/roll | 50m/roll |
|--|-------------------|--------------------|-------------------|-------------------|-------------------|
| Nom. cross-section mm² | 0.5 (20GA) | 0.75 (18GA) | 1.5 (15GA) | 2.5 (13GA) | 4.0 (11GA) |
| External dia. approx. mm | 1.50 | 1.80 | 2.30 | 2.90 | 3.50 |
| Colour | Art. No. | Art. No. | Art. No. | Art. No. | Art. No. |
| Black | 770.050 | 770.075 | 770.100 | 770.105 | 770.110 |
| Red | 770.0501 | 770.0751 | 770.101 | 770.106 | 770.1100 |
| Blue | 770.0502 | - | - | - | - |
| Yellow | 770.0503 | 770.0753 | - | 770.108 | - |
| Green | 770.0504 | - | - | - | - |
| Grey | 770.0505 | - | - | - | - |
| White | 770.05042 | - | 770.1042 | 770.1092 | - |
| Brown | 770.0509 | 770.0759 | - | - | - |

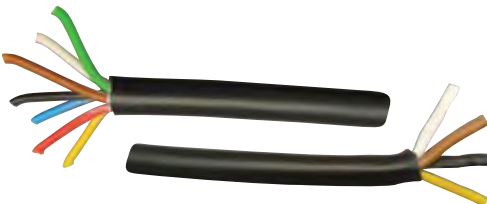
- European gauges from 20GA - 9GA
- High quality plastic PVC coating to protect and ensure long lasting performance
- Single conductor
- Available in black, red, yellow, white, brown, green, purple, blue, grey, black, red
- Temperature Range: -40 °C to +85 °C (-40 °F to +185 °F)
- Silicone, cadmium, lead free
- Less inclined to coil up

Bundles

| Nom. cross-section mm ² | External dia. approx. mm | Colour | Art. No. |
|------------------------------------|--------------------------|--------|----------------|
| 6.0 (9GA) | 4.7 | Black | 770.111 |

Temperature range:
-40°C to +70°C

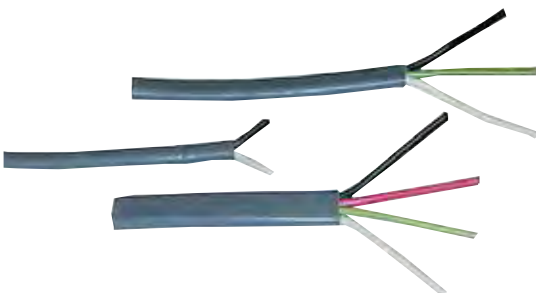
MULTI-STRAND WIRE



Outer-casing NYMHY

| Gauge | Colour | No. of Strands | Dia (mm) | Roll Length (m) | Art. No. |
|-------|---|----------------|----------|-----------------|----------------|
| 15 | Black, white, brown, yellow, green, red, blue | 7 | 9.5 | 50 | 770.118 |
| | Black, white, brown, yellow | 4 | 7.3 | | 770.119 |

FLAT PARALLEL WIRE



- For auto, truck, agriculture, construction and light marine applications
- Also known as Brake Cable
- Temperature rated 221° F (105° C)
- Use at 50 volts or less
- Heavy duty flat PVC grey outer jacket is abrasion resistant and protects against moisture, oil, acid and salt
- Meets SAE J1128, Type GPT specifications
- Used for cross body wiring of lights on tractor and utility trailers
- Fine stranded copper conductor for maximum conductivity and flexibility

| No. of Conductors | Size | Conductor Colour Sequence | Art. No. |
|-------------------|---------|----------------------------|-----------------|
| 2 x 12GA | 100 ft. | Black & White | 772.7212 |
| 2 x 14GA | | Black & White | 772.7214 |
| 3 x 14GA | 100 ft. | Black, Green, & White | 772.7314 |
| 4 x 14GA | | Black, Green, Red, & White | 772.7414 |
| 2 x 16GA | | Black & White | 772.7216 |

CRIMPING TOOLS



Application: Forklift trucks and high lifts, battery back-up systems, uninterruptible power supply systems, industrial and commercial applications.

Art. No. 557.94285

Heavy Duty Crimping Tool Ratchet

- 26" overall length, for sizes 8 GA to 6/0
- Insulated grips for comfort and safety
- Rotate dies to proper gauge setting, no need to remove any parts
- Colour-coded crimp dies match connectors and cable
- Provided with a release pawl
- The ratchet mechanism is designed to ensure the best possible crimped connection
- The ratchet mechanism requires the operator to complete the full crimp before it will release
- Factory lubricated with low-friction, high-temperature synthetic lubricant
- Suitable for use with Power Lugs 557 Series



Art. No. 557.942851

Replacement Jaws

Replacement Jaws for **Art. No. 557.94285**
Colour coded

CRIMPING TOOLS



Art. No. 557.10

Wire End Ferrule Crimping Tool

- For insulated and non-insulated cable connectors
- Drop-forged
- Long life
- With plastic handle
- Non-slip, with high power transmission
- Cross-sec.: 0.5 - 16 mm²
- Length: 220 mm
- Suitable for use with Insulated Solderless Connectors 553.9702 - 553.9707



Art. No. 557.94840

Hammer Type Crimping Tool

- Designed to prevent over crimping
- Spring loaded pin locks in "up" position for loading connector and cable
- When released pin holds connector securely during crimping
- Engineered to crimp electrical terminals on stranded copper cable
- Suitable for all wire sizes from 16 GA to 4/0

OPEN BARREL TERMINAL CRIMPING TOOL



Art. No. 557.16004

- For O.E.M. terminals and weather pack.
- Duplicates factory crimps on open barrel terminals used in automotive, computer and control applications.
- Features five machined and hardened crimp stations for 14 to 24 GA wire terminations.
- Parallel jaws eliminate faulty crimps.
- Overall length: 8 1/2"

CRIMPING TOOLS



Uninsulated/Insulated Crimping Tool Q60 Plus

Art. No. 714.101111

- Crimping of insulated and uninsulated cable connectors 0.5-1.0/1.5-2.5/4-6 mm²
- Cutting and insulation stripping of cables and leads from 0.75 to 6.0 mm
- Will cut machine screws from M2.6-M5
- Length: 220 mm, Weight: 310 g
- Pack Quantity: 1



Insulated Crimping Tool Qi 60

Art. No. 558.11

- Crimping of insulated cable connectors 0.5-1.0/1.5-2.5/4-6 mm²
- Cutting and insulation stripping of cables and leads from 0.75 to 6.0 mm
- Will cut machine screws from M2.6-M5
- Length: 200 mm, Weight: 260 g
- Pack Quantity: 1



Uninsulated Crimping Tool Qu 60

Art. No. 714.101121

- Crimping of uninsulated cable connectors 0.5-1.0/1.5-2.5/4-6 mm²
- Cutting and insulation stripping of cables and leads from 0.75 to 6.0 mm
- Will cut machine screws from M2.6-M5
- Length: 200 mm, Weight: 260 g
- Pack Quantity: 1



Ratchet Style Insulated Crimping Tool

Art. No. 558.1100

- Crimping of insulated cable connectors 0.5-1.0/1.5-2.5/4-6 mm
- Cable sizes from 22 to 10 GA
- Forced lock for correct and complete crimping
- Double and oval crimping
- Length: 230 mm, Weight: 550 g
- Pack Quantity: 1

HEAVY DUTY CABLE CUTTING TOOL



Art. No. 557.94014

- Cuts cable up to 250 MCM (6/0) gauge
- 22" handles for easier cutting
- Blades made of 1075 carbon steel, hardened for long life, can be resharpened

CABLE STRIPPER



* The first column reports the AWG number, the second the corresponding diameter of the cable in mm.

Features:

- For stripping all common round cables
- Self-tightening holding lever
- Adjusting screw for cutting depth adjustment
- Turnable blade inside the handle
- Spare blades inside the handle
- Secure grip due to soft component material on handle and holding lever to avoid slipping
- Housing is plastic and impact proof
- Strips cables from 8 to 28 mm wide
- 5" overall length

| Description | Art. No | P. Qty |
|-------------------|-------------------------------------|--------|
| Cable Stripper | 714.4100 | 1 |
| Replacement Blade | 714.41010 Special Order Only | |

WIRE STRIPPER 0.2MM-6MM



Art. No. 714.109006 - P. Qty. 1

Automatic gauging system, no adjustment to cable cross-section is necessary.

Features:

- Pistol grip / Designed for fatigue-free operation
- Adjustable length stop: 5-15 mm
- Integrated cable cutter: up to 2.5 mm²
- Includes fastening device at the end of the handle

Details/Applications:

- For sheath stripping PVC-insulated single-core cables

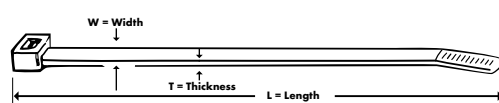
Note:

- Not suitable for working on or in the vicinity of live parts



| Description of 714.109006 | |
|-----------------------------|-------------------------|
| Type Designation | AS 61 |
| Blade Geometry | V-shaped |
| Wire Cross Section min/max | 0.2-6.0 mm ² |
| American Wire Gauge min/max | 24-10 GA |
| Length x Width x Height | 165 x 27 x 140 mm |
| Material | Plastic/metal |

CABLE TIES WITH METAL AND PLASTIC TONGUE



Natural nylon 6/6

General purpose nylon is high in strength and lightweight. It is non-toxic and offers a wide temperature range. Nylon 6/6 is a hydroscopic material, which absorbs and releases moisture. This can affect the characteristics of a cable tie.

UV stabilized nylon 6/6

Ultraviolet nylon offers the same features of the natural nylon but also protects against UV light. It contains well-dispersed carbon black for maximum resistance to weathering. This material is designed for outdoor applications.

- UL listed & meets applicable Mil. Spec.
- Temperature range: -40°C to +85°C (-40°F to +185°F).
- Black ties are UV stabilized for long life.
- 6/6 nylon provides superior strength.
- Easy insertion of the cable tie into the eye due to the raised tip.

- Absolutely secure lock.
- Long service life.
- Particularly tough in cold weather, does not become brittle or porous at low temperatures.
- Resistant to oils, grease, fuels and many other organic materials.
- Caution in case of strongly mineral acids and/or oxidizing chemicals, especially at high temperatures.
- Neutral: for indoor use.
- Black: UV and weather stabilized.
- Due to carbon additive the effect of UV radiation on the material is slowed down.

Areas of application:

- Switch cabinets
- Installation
- Automotive
- Automobile workshops
- Industrial workshops
- Elevator construction

PREMIUM CABLE TIES WITH PLASTIC TONGUE



- Plastic tongue.
- No sharp edges.
- High retaining strength.

| Width (mm) | Width (in) | Length (mm) | Length (in) | Bundle Ø (mm) | Bundle Ø (in) | Strength (kg) | Strength (lb) | Art. No. Natural | Art. No. UV black | P. Qty. |
|------------|------------|-------------|-------------|---------------|---------------|---------------|---------------|------------------|-------------------|---------|
| 2.5 | 0.10 | 102 | 4.0 | 22 | 7/8 | 8.2 | 18 | 553.5500P | | 100 |
| 3.3 | 0.13 | 142 | 5.6 | 32 | 1-1/4 | 13.6 | 30 | | 553.55010P | |
| 4.7 | 0.19 | 191 | 7.5 | 44 | 1-3/4 | 22.7 | 50 | | 553.55030P | |
| 4.7 | 0.19 | 282 | 11.1 | 76 | 3 | 22.7 | 50 | 553.5504P | 553.55040P | |
| 7.6 | 0.30 | 363 | 14.3 | 102 | 4 | 54.4 | 120 | | 553.59001P | 50 |
| 7.6 | 0.30 | 282 | 11.1 | 76 | 3 | 54.4 | 120 | | 553.59002 | |
| 8.8 | 0.35 | 914 | 36 | 270 | 10.7 | 79.3 | 175 | 553.5901 | 553.59010 | |

CABLE TIES WITH METAL TONGUE



| Width (mm) | Width (in) | Length (mm) | Length (in) | Bundle Ø (mm) | Bundle Ø (in) | Strength (kg) | Strength (lb) | Art. No. Natural | Art. No. UV black | P. Qty. |
|------------|------------|-------------|-------------|---------------|---------------|---------------|---------------|------------------|-------------------|---------|
| 2.5 | 0.10 | 102 | 4 | 15.9 | 0.63 | 8.2 | 18 | 553.5500M | 553.55001M | 100 |
| 3.6 | 0.14 | 140 | 5.5 | 28.6 | 1.13 | 18.2 | 40 | 553.5501M | 553.55010M | |
| 4.7 | 0.19 | 191 | 7.5 | 44.5 | 1.75 | 22.7 | 50 | 553.5503M | 553.55030M | |
| 4.7 | 0.19 | 292 | 11.5 | 76.2 | 3.00 | 22.7 | 50 | 553.5504M | 553.55040M | |
| 4.7 | 0.19 | 356 | 14 | 101.6 | 4.00 | 22.7 | 50 | 553.5505M | 553.55050M | 50 |
| 6.9 | 0.27 | 356 | 14 | 88.9 | 3.50 | 54.4 | 120 | 553.5900M | 553.59001M | |
| 6.9 | 0.27 | 699 | 27.5 | 228.6 | 9.00 | 54.4 | 120 | | 553.59010M | |

PUSH MOUNT CABLE TIE



| Width (mm) | Width (in) | Length (mm) | Length (in) | Bundle Ø (mm) | Bundle Ø (in) | Strength (kg) | Strength (lb) | Colour | Art. No. | P. Qty. |
|------------|------------|-------------|-------------|---------------|---------------|---------------|---------------|---------|------------------|---------|
| 4.7 | 0.19 | 193 | 7.5 | 44 | 1.75 | 22.7 | 50 | Natural | 553.5700 | 100 |
| | | | | | | | | Black | 553.57001 | 100 |

PLASTIC PANEL CABLE TIES



| Width (mm) | Width (in) | Length (mm) | Length (in) | Bundle Ø (mm) | Bundle Ø (in) | Strength (kg) | Strength (lb) | Art. No. black | P. Qty. |
|------------|------------|-------------|-------------|---------------|---------------|---------------|---------------|------------------|---------|
| 5.7 | 0.23 | 319 | 12.5 | 76.2 | 3.00 | 29.5 | 65 | 553.51000 | 50 |

MOUNTING HEAD TIES



- Material: Nylon

| Width (mm) | Width (in) | Length (mm) | Length (in) | Thickness (mm) | Thickness (in) | Bundle Ø (mm) | Bundle Ø (in) | Strength (N) | Strength (lb) | Hole (Ø) | Art. No. (Black) | UL Certification | Qty. |
|------------|------------|-------------|-------------|----------------|----------------|----------------|---------------|--------------|---------------|-----------------------|------------------|-----------------------|------|
| 3.6068 | 0.142 | 144.75 | 5.7" | 1.27 | 0.05 | 1.5748 - 30.48 | 0.062" - 1.2" | 133.45 | 30 | 0.16" (4.06 mm) / #8 | 553.56001 | 62275 TY 2 & 21 | 100 |
| 4.572 | 0.18 | 218.44 | 8.6" | 1.397 | 0.055 | 1.5748 - 50.8 | 0.062" - 2" | 222.41 | 50 | 0.19" (4.83) mm / #10 | 553.56010 | 62275 TY 2 & 21 & 21S | |

CABLE TIES WITH PLASTIC TONGUE



| Width (mm) | Width (in) | Length (mm) | Length (in) | Thickness (mm) | Thickness (in) | Bundle Ø (mm) | Bundle Ø (in) | Strength (N) | Strength (lb) | Art. No. Natural | UL Certification | Qty. | Art. No. UV Black | UL Certification | Qty. |
|------------|------------|-------------|-------------|----------------|----------------|---------------|---------------|--------------|---------------|------------------|-----------------------|------|-------------------|-----------------------|------|
| 2.54 | 0.1 | 104.14 | 4.1 | 0.889 | 0.035 | 19.05 | 3/4" | 80 | 18 | 553.5500 | 62275 TY 2 & 21 | 100 | 553.55001 | 62275 TY 2 & 21 | 100 |
| 3.6 | 0.142 | 144.78 | 5.7 | 1.524 | 0.06 | 31.75 | 1-1/4" | 177.93 | 40 | 553.5501 | 62275 TY 2 & 21 | | 553.55010R | 62275 TY 2 & 21 | |
| 3.6 | 0.142 | 147.32 | 5.8 | 1.524 | 0.06 | 31.75 | 1-1/4" | 177.93 | 40 | | | | 553.55011 | 62275 TY 2 & 21 | 1000 |
| 4.572 | 0.18 | 193.04 | 7.6 | 1.3716 | 0.054 | 50.8 | 2" | 222.41 | 50 | 553.5503 | 62275 TY 2 & 21 & 21S | 100 | 553.55030 | 62275 TY 2 & 21 & 21S | 100 |
| 4.572 | 0.18 | 193.04 | 7.6 | 1.3716 | 0.054 | 50.8 | 2" | 222.41 | 50 | 553.55031 | 62275 TY 2 & 21 & 21S | 1000 | 553.550301 | 62275 TY 2 & 21 & 21S | 1000 |
| 4.572 | 0.18 | 281.94 | 11.1 | 1.3716 | 0.054 | 76.2 | 3" | 222.41 | 50 | 553.5504 | 62275 TY 2 & 21 & 21S | 100 | 553.55040 | 62275 TY 2 & 21 & 21S | 100 |
| 4.572 | 0.18 | 281.94 | 11.1 | 1.3716 | 0.054 | 76.2 | 3" | 222.41 | 50 | | | | 553.55040B | 62275 TY 2 & 21 & 21S | 1000 |
| 4.572 | 0.18 | 370.84 | 14.6 | 1.3716 | 0.054 | 101.6 | 4" | 222.41 | 50 | 553.5505 | 62275 TY 2 & 21 & 21S | 100 | 553.55050 | 62275 TY 2 & 21 & 21S | 100 |
| 4.572 | 0.18 | 370.84 | 14.6 | 1.3716 | 0.054 | 101.6 | 4" | 222.41 | 50 | | | | 553.55050B | 62275 TY 2 & 21 & 21S | 1000 |
| 4.572 | 0.18 | 434.34 | 17.1 | 1.3716 | 0.054 | 127 | 5" | 222.41 | 50 | | | | 553.55060 | 62275 TY 2 & 21 | 100 |
| 7.5692 | 0.298 | 228.6 | 9 | 1.7526 | 0.069 | 50.8 | 2" | 533.79 | 120 | | | | 553.59003 | 62275 TY 2 & 21 | |
| 7.5692 | 0.298 | 381 | 15 | 1.7526 | 0.069 | 101.6 | 4" | 533.79 | 120 | 553.5900 | 62275 TY 2 & 21 | 100 | 553.59001 | 62275 TY 2 & 21 | 50 |
| 7.5692 | 0.298 | 381 | 15 | 1.7526 | 0.069 | 101.6 | 4" | 533.79 | 120 | | | | 553.59001B | 62275 TY 2 & 21 | 500 |

COLD WEATHER CABLE TIES



Enhanced flexibility and strength in extreme cold weather.

- Tested for application performance at -20°C to +85°C (-4°F to +185°F).
- Material: Nylon 6/6 with an impact modifier.
- Material rated at -40°C (-40°F) per ISO 180.
- RoHS compliant.

| Width | | Length | | Thickness | | Bundle Ø | | Strength | | Art. No. Black | UL Certification | P. Qty. |
|---------|-------|--------|------|-----------|-------|----------|------|----------|------|-------------------|-----------------------|---------|
| (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (N) | (lb) | | | |
| 4.572 | 0.18 | 193.04 | 7.6 | 1.3716 | 0.054 | 50.8 | 2" | 222.41 | 50 | 553.550300 | 62275 TY 2 & 21 | 100 |
| 4.572 | 0.18 | 281.94 | 11.1 | 1.3716 | 0.054 | 76.2 | 3" | 222.41 | 50 | 553.550311 | 62275 TY 2 & 21 & 21S | |
| 4.572 | 0.18 | 370.84 | 14.6 | 1.3716 | 0.054 | 101.6 | 4" | 222.41 | 50 | 553.550314 | 62275 TY 2 & 21 & 21S | |
| 15.1892 | 0.598 | 381 | 15 | 1.7526 | 0.069 | 101.6 | 4" | 533.79 | 120 | 553.550414 | 62275 TY 2 & 21 | |

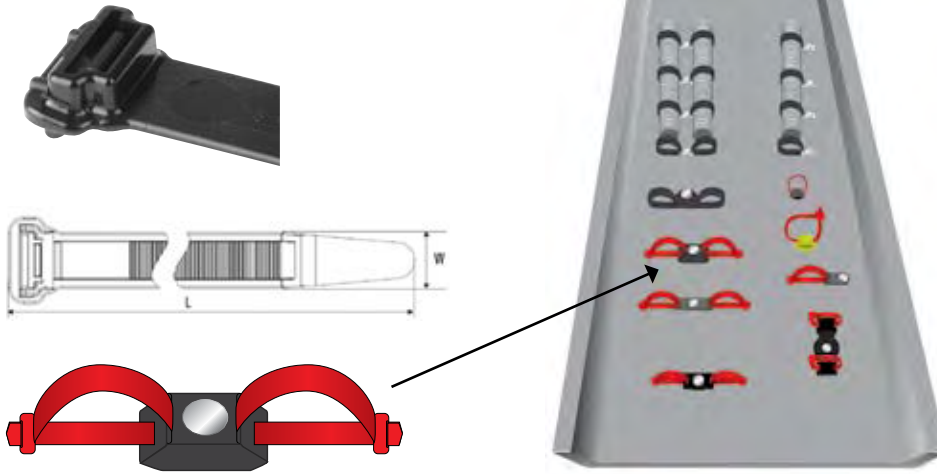
COLOURED CABLE TIES



- Color and fluorescent cable ties provide color coding, identification, packaging continuity, and bundling aesthetics.
- Bright colours can be coordinated to segregate specific items.
- High quality color concentrates produce color consistency time after time.
- The angled tail features finger grips and a stay-tab for easy handling and allows temporary closure.
- The one-piece design, transition rails, and teeth provide a low insertion force while maintaining a high tensile strength.

| Width (mm) | Width (in) | Length (mm) | Length (in) | Thickness (mm) | Thickness (in) | Bundle Ø (mm) | Bundle Ø (in) | Strength (N) | Strength (lb) | Colour | Art. No. | UL Certification | Qty. | |
|------------|------------|-------------|-----------------|-----------------------|----------------|---------------|---------------|--------------|---------------|---------------|-----------------|-----------------------|-----------------|-----------------------|
| 2.54 | 0.10 | 104.14 | 4.1 | 0.889 | 0.035 | 19.05 | 3/4 | 80 | 18 | Fluor. green | 553.6100 | 62275 TY 2 & 21 | 100 | |
| | | | | | | | | | | Fluor. pink | 553.6200 | 62275 TY 2 & 21 | | |
| | | | | | | | | | | Fluor. yellow | 553.6300 | 62275 TY 2 & 21 | | |
| | | | | | | | | | | Fluor. orange | 553.6400 | 62275 TY 2 & 21 | | |
| | | | | | | | | | | Fluor. blue | 553.6500 | 62275 TY 2 & 21 | | |
| | | | | | | | | | | Red | 553.6600 | 62275 TY 2 & 21 | | |
| | | | | | | | | | | Yellow | 553.6700 | 62275 TY 2 & 21 | | |
| | | | | | | | | | | Green | 553.6800 | 62275 TY 2 & 21 | | |
| 4.572 | 0.18 | 193.04 | 7.6 | 1.3716 | 0.054 | 50.8 | 2 | 222.41 | 50 | Fluor. green | 553.7100 | 62275 TY 2 & 21 & 21S | | |
| | | | | | | | | | | Fluor. pink | 553.7200 | 62275 TY 2 & 21 & 21S | | |
| | | | | | | | | | | Fluor. yellow | 553.7300 | 62275 TY 2 & 21 & 21S | | |
| | | | | | | | | | | Fluor. orange | 553.7400 | 62275 TY 2 & 21 & 21S | | |
| | | | | | | | | | | Fluor. blue | 553.7500 | 62275 TY 2 & 21 & 21S | | |
| | | | | | | | | | | Red | 553.7600 | 62275 TY 2 & 21 & 21S | | |
| | | | | | | | | | | Yellow | 553.7700 | 62275 TY 2 & 21 & 21S | | |
| | | | | | | | | | | Green | 553.7800 | 62275 TY 2 & 21 & 21S | | |
| | | Blue | 553.7900 | 62275 TY 2 & 21 & 21S | | | | | | | | | | |
| | | 281.94 | 11.1 | | | | | 76.2 | 3 | | | Fluor. green | 553.8100 | 62275 TY 2 & 21 & 21S |
| | | | | | | | | | | | | Fluor. pink | 553.8200 | 62275 TY 2 & 21 & 21S |
| | | | | | | | | | | | | Fluor. yellow | 553.8300 | 62275 TY 2 & 21 & 21S |
| | | | | | | | | | | | | Fluor. orange | 553.8400 | 62275 TY 2 & 21 & 21S |
| | | | | | | | | | | | | Fluor. blue | 553.8500 | 62275 TY 2 & 21 & 21S |
| | | | | | | | | | | | | Red | 553.8600 | 62275 TY 2 & 21 & 21S |
| | | | | | | | | | | | | Yellow | 553.8700 | 62275 TY 2 & 21 & 21S |
| | | | | | | | | | | | | Green | 553.8800 | 62275 TY 2 & 21 & 21S |
| | | | | | | | | | | | | Blue | 553.8900 | 62275 TY 2 & 21 & 21S |

WIDE STRAP HEAVY DUTY CABLE TIES

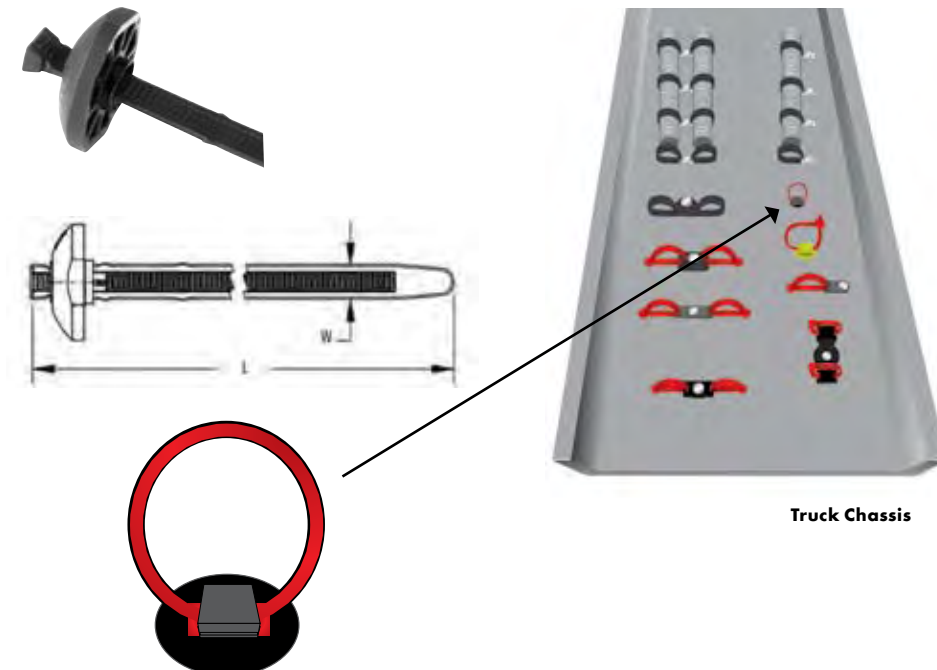


Truck Chassis

- Wide strap designed to minimize pinching on soft bundles
- Low profile head provides compact bundling
- Thin strap provides increased flexibility
- Clamping rails on the bottom of head increases grip on round bundles
- Flexible strap
- Bent tip for quick insertion
- Temperature range: -40 °C - +110°C (-40 °F - +230 °F)

| Length | | Width | | Bundle ø | | Tensile Strength | | Colour | Art. No. | Replaces OEM # | P. Qty. |
|--------|------|-------|----|----------|-------|------------------|-----|--------|----------|---------------------------|---------|
| mm | in | mm | in | mm | in | N | lbs | | | | |
| 231.14 | 9.1 | 12.7 | .5 | 57.15 | 2.25 | 534 | 120 | Black | 553.3100 | Freightliner 23-13335-001 | 25 |
| 383.54 | 15.1 | | | 104.78 | 4.125 | | | | | | |

BUTTON HEAD TIES

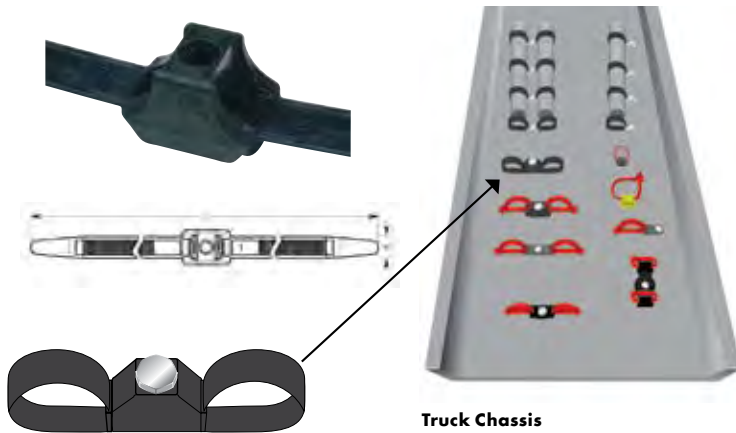


Truck Chassis

- Secures bundles to frame rails
- A two-piece tie providing for parallel entry and exit through the head
- Strap has serrations on both sides
- Recessed pawls on strap allow for the strap to be turned clockwise or counter-clockwise before insertion into the head, allowing for bi-directional looping
- Pilot bushing protects the strap from abrasion on the mounting hold edge
- Ribs in the button head for increased strength
- Radiused edges on strap for flexibility
- Serrations and wedge provide optimal strength
- Temperature range: -40 °C - +105 °C (-40 °F - +221 °F)

| Length | | Width | | Bundle ø | | Tensile Strength | | Colour | Art. No. | P. Qty. |
|--------|------|-------|-----|----------|------|------------------|-----|--------|----------|---------|
| mm | in | mm | in | mm | in | N | lbs | | | |
| 244.4 | 9.63 | 5.5 | .22 | 66.7 | 2.62 | 467 | 105 | Black | 553.3200 | 50 |
| 381.5 | 15 | 7.6 | .30 | 110 | 4.33 | 578 | 130 | | | |

DUAL CLAMP TIES



Truck Chassis

- Designed to provide parallel separation between hoses, wires, cables and tubing, protecting them from abrasion
- Mounting hole for securing bundles to a surface
- One-piece design
- Dual head is centered on the strap
- Flexible, wide straps minimizes pinching of hoses and convoluted tubing
- Straps are releasable
- Temperature range: -40 °C - +110 °C (-40 °F - +230 °F)

| Length | | Width | | Bundle ø (each side) | | Tensile Strength | | Colour | Art. No. | Replaces OEM # | P. Qty. |
|--------|------|-------|-----|----------------------|-----|------------------|-----|--------|----------|-----------------------------|---------|
| mm | in | mm | in | mm | in | N | lbs | | | | |
| 331 | 13 | 12.7 | .50 | 33.02 | 1.3 | 670 | 150 | Black | 553.3300 | Freightliner - 23-12410-000 | 50 |
| 489 | 19.2 | | | 58.42 | 2.3 | | | | | International - 3535872C1 | |
| | | | | | | | | | | Freightliner - TYCDCT110HIR | |

DOUBLE HEAD TIES



- Creates two loops that separate two bundles
- Can also be used to secure a bundle to an existing fixing point
- Temperature range: -40 °C - +85 °C (-40 °F - +185 °F)

| Length | | Width | | Tensile Strength | | Colour | Art. No. | P. Qty. |
|--------|----|-------|-----|------------------|-----|--------|----------|---------|
| mm | in | mm | in | N | lbs | | | |
| 305 | 12 | 4.7 | .19 | 225 | 50 | Black | 553.3400 | 25 |

CLAMP TIES



- Triangular shaped taps extend beneath the head, allowing for optimal surface contact and complete circumferential compression to 360 degrees
- Recommended for soft rubber hose applications, including fuel, water and air vacuum lines

Black ties:

Temperature range: -40 °C - +105 °C
(-40 °F - +221 °F)

Material: Polyamide 6.6, heat stabilized

White ties:

Temperature range: -40 °C - +85 °C
(-40 °F - +185 °F)

Material: Polyamide 6.6

| Length | | Width | | Bundle ø | | Tensile Strength | | Colour | Art. No. | P. Qty. |
|--------|----|-------|-----|----------|------|------------------|-----|--------|----------|---------|
| mm | in | mm | in | mm | in | N | lbs | | | |
| 100 | 4 | 2.5 | .10 | 13 | .50 | 90 | 20 | Black | 553.4020 | 100 |
| 205 | 8 | 4.7 | .19 | 45 | 1.77 | 265 | 60 | White | 553.4030 | |
| | | | | | | | | Black | 553.4040 | |

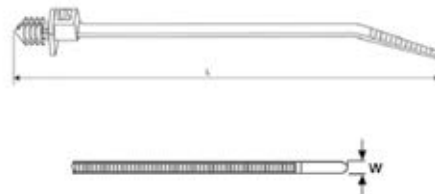
STAINLESS STEEL CABLE TIES



| Length | | Width | | Bundle ø | | Tensile Strength | | Art. No. | P. Qty. | |
|--------|------|-------|-----|----------|----|------------------|-----|----------|---------|----------|
| mm | in | mm | in | mm | in | N | lbs | | | |
| 201 | 7.9 | 4.6 | .18 | 50 | 2 | 670 | 450 | 553.3500 | 25 | |
| 362 | 14.3 | | | 102 | 4 | | | | | 553.3505 |
| 521 | 20.5 | | | 152 | 6 | | | | | 553.3510 |
| 201 | 7.9 | 7.9 | .31 | 50 | 2 | 1115 | 450 | 553.3540 | | |
| 362 | 14.3 | | | 102 | 4 | | | | | 553.3550 |
| 251 | 20.5 | | | 152 | 6 | | | | | 553.3560 |

- Designed for use where harsh environmental conditions may adversely affect the application
- For use where corrosion, vibration, weathering, radiation and temperature extremes are a concern
- For use in virtually any indoor, outdoor and underground application
- 304 Stainless Steel suits most general purpose requirements
- Self-locking, ball bearing mechanism for quick and easy installation, either by hand or by tensioning tool
- Fully enclosed head does not allow for dirt or grit to interfere with locking mechanism
- High tensile strength for added strength and safety on heavy-duty applications

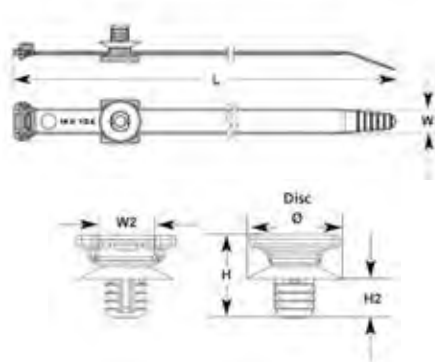
FIR MOUNT AND CABLE TIE ASSEMBLIES



Fir Tree Push Mount Tie

- Fir tree design grips to the inside of a hole
- Mount is on end of clamp
- Can be used on sheet metal, wood, and cast iron
- Temperature range: -40 °C - +105 °C (-40 °F - +221 °F)

| Mounting hole ø mm (in) | Panel thickness mm (in) | Length L mm (in) | Width W mm (in) | Min. Tensile Strength N (lbs) | Max. ø bundle mm (in) | Colour | Art. No. | P. Qty. |
|-------------------------|--------------------------|------------------|-----------------|-------------------------------|-----------------------|--------|----------|---------|
| 6.5-6.6 (.25 - .26") | 1.32 - 7.0 (.052 - .28") | 210 (8.27") | 4.7 (.19") | 225 (50) | 50 (1.97") | Black | 553.3700 | 25 |



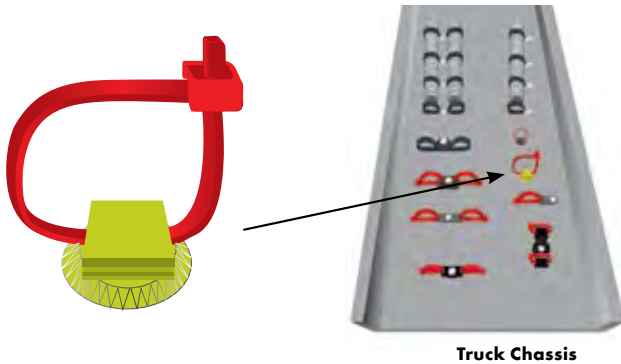
Heavy Duty Fir Tree Mounts

- Designed specifically for 120 - 250 lbs cable ties
- Optimized for up to 3 to 1 extraction versus insertion force
- "H" profile provides a broad surface contact to minimize pinching of bundles
- Will hold bundles from 3/8" - 3"
- Heavy duty fir free mounts are equipped with a friction tab that will hold the tie in the mount, allowing them to be pre-assembled before installation

* Panel thickness: 1.0 - 6.5 mm (.04 - .26")
 ** Panel thickness: 1.0 - 15.8 mm (.04 - .62")

| Cable Tie | | Mount | | | | Min. Tensile Strength N (lbs) | Max. ø Bundle mm (in) | Art. No. | Similar to OEM # | P. Qty |
|------------------|-----------------|----------------|------------------|------------------|-------------------|-------------------------------|-----------------------|-----------|---------------------------|--------|
| Length L mm (in) | Width W mm (in) | Disc ø mm (in) | Width W2 mm (in) | Height H mm (in) | Height H2 mm (in) | | | | | |
| 387.4 (15.25") | 7.6 (.30") | 21.6 (.85") | 13 (.51") | 19.1 (.75") | 9 (.36") | 534 (120) | 101.6 (4") | 553.3600* | Freightliner 23-13482-005 | 25 |
| | | | | 28.4 (1.12") | 18.4 (.73") | | | | | 25 |

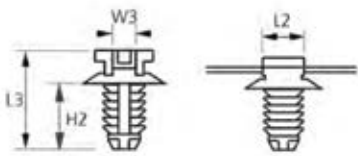
FIR MOUNT AND CABLE TIE ASSEMBLIES



Fir Tree Mount

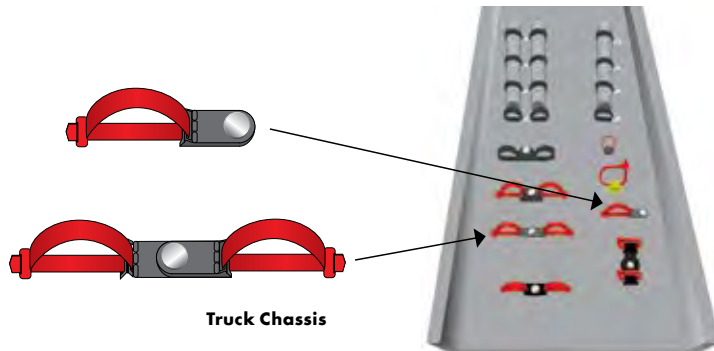
- Mount slides along strap for proper orientation
- Temperature range: -40 °C - +110 °C (-40 °F - +230 °F)
- Mounting hole \varnothing : 6.4 - 7.1 mm (.252" - .28")
- Panel thickness: 0.75 - 3.0 mm (0.028" - .193")
- Designed to require low insertion force but high extraction force
- Mounts are sold as an assembly with the cable tie
- Provides secure grip in a mounting hole
- Protects against dirt

Mounting hole = 6.4mm - 7.1mm



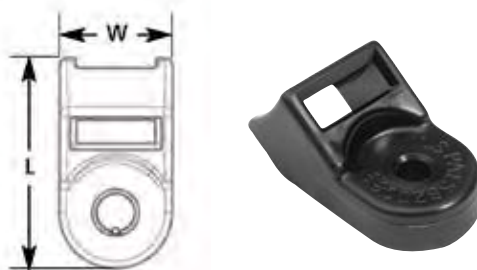
| Cable Tie | | Mount | | | | | Min. Tensile Strength N (lbs) | Max. \varnothing Bundle mm (in) | Art. No. | P. Qty |
|---------------------|--------------------|----------------------------------|----------------------|----------------------|---------------------|----------------------|----------------------------------|--------------------------------------|-----------------|--------|
| Length L mm (in) | Width W mm (in) | Disc \varnothing mm (in) | Length L2 mm (in) | Length L3 mm (in) | Width W3 mm (in) | Height H2 mm (in) | | | | |
| 203.2 (8") | 4.6 (.18") | 16.0 (.63") | 11.6 (.46") | 13.8 (.54") | 5 (.20") | 7.5 (.295") | 225 (50) | 44.5 (1.75") | 553.3705 | 25 |

HEAVY DUTY CABLE TIE MOUNTS



Truck Chassis

- When used with a cable tie, eliminates the need to carry multiple sizes of fixed bundle diameter clamps
- Allows for easy servicing while in the field, simply remove and replace the cable tie
- Accepts all standard cable ties up to 12.7 mm/0.5" wide
- Temperature range: -40 °C - +110 °C (-40 °F - +230 °F)



Standard Torque Cable Tie Mounts

- Contains a small tab inside the mounting hole to temporarily engage the threads
- Allows you to pre-install the mount on a stud before securing with a washer and a nut

| Mounting Hole ϕ | | Max Torque | Max. ϕ for Washer/ Socket | | Length L | | Width W | | Colour | Art. No. | P. Qty. |
|----------------------|-------|-------------|--------------------------------|-----|----------|------|---------|-----|--------|----------|---------|
| mm | in | | mm | in | mm | in | mm | in | | | |
| 4.8 | .1875 | 9.6 lb - ft | 18.5 | .73 | 36.32 | 1.43 | 19.3 | .76 | Black | 553.3920 | 25 |
| 6.4 | .25 | | | | | | | | | 553.3925 | |
| 8 | .3125 | | | | | | | | | 553.3930 | |



Medium Torque Cable Tie Mount

- Arched "H" profile of saddle surface allows for broad surface contact with the bundle, minimizing pinching and crushing of bundles
- Adjusts to a wide variety of bundle diameters

| Mounting Hole ϕ | | Max Torque | Max. ϕ for Washer/ Socket | | Length L | | Width W | | Colour | Art. No. | P. Qty. |
|----------------------|------|------------|--------------------------------|-----|----------|-----|---------|-----|--------|----------|---------|
| mm | in | | mm | in | mm | in | mm | in | | | |
| 9.5 | .375 | 40 lb - ft | 23 | .90 | 46 | 1.8 | 24 | .96 | Black | 553.3900 | 25 |

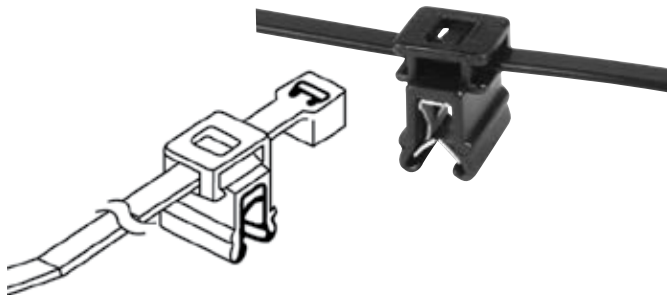


High-Torque Cable Tie Mount

- Designed for use with power-assisted impact wrenches
- Moulded with metal bushing to withstand forces required to tighten a grade 8 bolt
- Arched "H" profile of saddle surface allows for broad surface contact with the bundle, minimizing pinching and crushing of bundles
- Adjusts to a wide variety of bundle diameters

| Mounting Hole ϕ | | Max Torque | Max. ϕ for Washer/ Socket | | Length L | | Width W | | Colour | Art. No. | P. Qty. |
|----------------------|------|-------------|--------------------------------|------|----------|------|---------|-----|--------|----------|---------|
| mm | in | | mm | in | mm | in | mm | in | | | |
| 9.5 | .375 | 114 lb - ft | 32 | 1.26 | 47 | 1.85 | 25 | .99 | Black | 553.3905 | 25 |

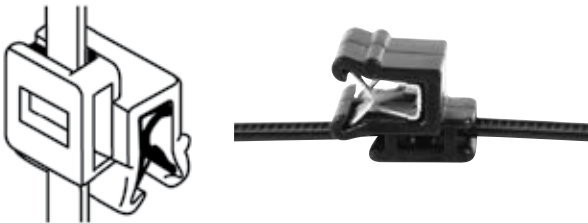
CABLE TIES WITH EDGE CLIP MOUNTS



Two-Piece Edge Clip and Cable Tie

- Panel thickness: 1 - 3 mm (.039 - .117")
- Temperature range: -40 °C - +105 °C (-40 °F - +221 °F)
- Outside strap serrations to reduce bundle chafing
- Clip is perpendicular to tie
- Tie is mounted on top of clip
- Designed to route bundles by securing them to the edge of a plastic or metal sheet without the need for a mounting hole
- Easy to secure
- Requires high extraction force due to the integrated metal clamp that holds the edge clip in place
- Cable tie temperature range: -40 °C - +105 °C (-40 °F - +221 °F)
- Edge clip temperature range: -40 °C - +110 °C (-40 °F - +230 °F)

| Length | | ø Bundle | | Tensile Strength | | Colour | Art. No. | P. Qty. |
|--------|-----|----------|-----|------------------|------|--------|-----------------|---------|
| mm | in. | mm | in. | N | lbs. | | | |
| 200 | 7.9 | 45 | 1.8 | 225 | 50 | Black | 553.3805 | 25 |



Two-Piece Edge Clip and Cable Tie

- With inside serrations on strap
- Clip is perpendicular to tie
- Tie is mounted on side of clip

| Length | | ø Bundle | | Tensile Strength | | Colour | Art. No. | P. Qty. |
|--------|-----|----------|-----|------------------|------|--------|-----------------|---------|
| mm | in. | mm | in. | N | lbs. | | | |
| 200 | 7.9 | 45 | 1.8 | 225 | 50 | Black | 553.3800 | 25 |

DUAL SWIVEL SADDLE SPACER FOR LARGE BUNDLES



- Saddle spacers are installed between two bundles to separate them and prevent chafing and wear
- Mounts are easily rotated by hand, allowing bundles to be crossed at any angle

Dual Swivel Saddle Spacer for large bundles

- Accommodates cable ties up to 1/2" wide
- Accepts bundle diameters from .625 to 6"
- 23.6 mm (.93") separation between bundles
- Temperature range: -40 °C - +105 °C (-40 °F - 221 °F)

| Length L mm (in) | Width W mm (in) | Height H mm (in) | Bundle ø | Minimum Extraction Strength | Colour | Art. No. | Replaces OEM # | P. Qty. |
|------------------|-----------------|------------------|--------------------------|-----------------------------|--------|-----------------|--|---------|
| 40.6 (1.6") | 25.4 (1.0") | 23.6 (.93") | 15.8 - 152.4 (.625 - 6") | 1112 N 250 lbs | Black | 553.3855 | Freightliner - 23-12886-000 International Truck - 3554554C1 | 25 |
| 23.6 (0.93") | 20.3 (0.80") | 18 (.70") | 6-76 (.25 - 3") | 445 N 100 lbs | | 553.3850 | | |

CABLE TIE HOLDER



From left to right:

Compartment 1: 7 cm x 8 cm (2 3/4" x 3 1/8")

Compartment 2: 10 cm x 16 cm (4" x 6 1/4")

Compartment 3: 13 cm x 27 cm
(5 1/8" x 10 5/8")

Compartment 4: 15 cm x 32.5 cm
(5 7/8" x 12 3/4")

Art. No. 502.05020

Contents (84 Pieces):

Assortment of Prefix 721 bulbs

- Suitable for wall mounting or ORSY cabinet
- Stock levels at-a-glance
- Easy retrieval
- Mounting hardware included
- Use with wire ties, Prefix 553
- Dimensions: 45 cm x 32.5 cm x 5 cm
(16 1/2" x 12 3/4" x 2" deep)

Note: It is recommended to store the wire ties in their original bags to prevent them from becoming brittle

ASSORTMENTS



Art. No. 965.55300

Heavy Duty Cable Tie & Accessory Assortment

Contents (125 Pieces):
5 types of Prefix 553 cable ties



Art. No. 965.553

Black Wire Tie Assortment

Contents (500 Pieces):
8 sizes of wire ties size range: 4" to 15"



Art. No. 965.553550

Cargo Cable Tie Assortment

Contents (550 Pieces):
6 sizes of cable ties size range: 4" to 15"



Art. No. 965.553600

8" Colour Cable Tie Assortment

Contents (600 Pieces):
6 colours of 8" cable ties



Art. No. 965.553601

11" Colour Cable Tie Assortment

Contents (600 Pieces):
6 colours of 11" cable ties

CABLE TIE MOUNTS



| Cable Tie Width (mm) | Plate Size (L x W) | Art. No. | P. Qty |
|----------------------|---------------------|----------------|--------|
| 2.5 | 25 x 25 | 502.625 | 50 |
| 3.6 | 19 x 19 | 502.636 | |
| 4.8 | 28 x 28 | 502.648 | |
| 6.5 | 25 x 25 | 502.665 | |

For securing cable ties to flat surfaces

- Self-adhesive
- Adheres to paint, plastic, wood, plaster, synthetic material, paper, etc.
- Surface must be dust, water and grease-free for adhesion
- Made of polyamide 6.6
- Temperature range from +5 °C to +50 °C (+41 °F to +122 °F)

WIRE LOOM CLIP



| Diameter (inches) | Art. No. | P. Qty |
|-------------------|---------------|--------|
| 1/4 | 543.14 | 50 |
| 3/8 | 543.38 | |
| 1/2 | 543.12 | |
| 3/4 | 543.34 | |
| 1 | 543.1 | |

Durable nylon plastic (natural colour)

WIRE LOOM ROUTING CLIP



| Type | For conduit size | | GM No. | Art. No. | P. Qty |
|------|------------------|--------|---------|------------------|--------|
| | I. D. | O. D. | | | |
| | 11/32" | 1/2" | 8911473 | 773.14544 | 50 |
| | 13/32" | 19/32" | 8911497 | 773.14545 | |
| 1 | 1/2" | 11/16" | 8911472 | 773.14546 | 25 |
| 1 | 3/4" | 1" | 3816659 | 773.14547 | |

Durable black nylon

ROUTING CLIP



A quick, economical method of fastening wires, tubes, hoses, or rods from 1/4" to 1" diameter to metal, plastic or any other surface ranging from 1/32" to 1/8" thickness. Clips are molded of durable, black nylon plastic. They snap into 1/4" diameter holes and are held firmly in place by flexible "snubber tips" which compensate for variation in wall thickness.

| Tube/ Hose/ Wire Outside Diameter | Clip Overall Height | Clip Height Above Panel | Art. No. | P. Qty |
|-----------------------------------|---------------------|-------------------------|------------------|--------|
| 1/2" | 1-1/16 | 5/8" | 773.14531 | 50 |
| 3/4" | 1-5/16 | 7/8" | 773.14533 | |

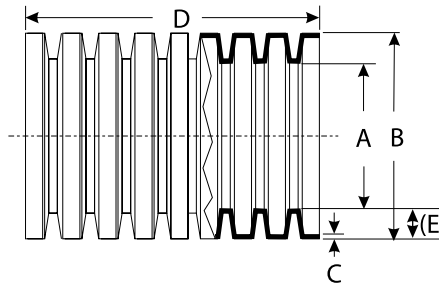
ENGINE COMPARTMENT WIRE CLIPS



Art. No. 773.12729 - P. Qty 25

For 1/4" diameter tube - 1/4" hole

SPLIT WIRE LOOM



- Split wire loom is constructed of heavy duty polyethylene which is resistant to various elements including oil, gas, etc. and temperatures up to 93 °C (200 °F)
- Full length slit accommodates quick and effortless wire insertion

| Nominal ID Diameter | Art. No. | Dimension "A" ID | | Dimension "B" OD | | Dim. "C" Wall Min | Dim (E) Corr Ht. Ref. |
|---------------------|----------------|------------------|-------|------------------|-------|-------------------|-----------------------|
| | | Min. | Max. | Min. | Max. | | |
| 1/4" | 773.14 | 0.237 | 0.266 | 0.372 | 0.400 | 0.004 | 0.067 |
| 3/8" | 773.38 | 0.341 | 0.980 | 0.496 | 0.526 | 0.005 | 0.075 |
| 1/2" | 773.12 | 0.473 | 0.516 | 0.664 | 0.700 | 0.005 | 0.094 |
| 5/8" | 773.58 | 0.603 | 0.639 | 0.802 | 0.837 | 0.005 | 0.099 |
| 3/4" | 773.34 | 0.707 | 0.759 | 0.950 | 0.989 | 0.005 | 0.118 |
| 1" | 773.1 | 1.020 | 1.069 | 1.251 | 1.304 | 0.006 | 0.117 |
| 1 1/2" | 773.112 | 1.566 | 1.647 | 1.867 | 1.947 | 0.006 | 0.150 |

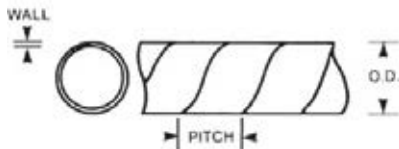
JUMBO SPIRAL WRAP



- U.V. resistant
- Remains flexible to -40 °C (-40 °F)
- Bevelled edges

| Inner Dia. | Colour | Art. No. | Qty. |
|------------|--------|----------------|------------------|
| 1 1/4" | Black | 779.114 | 66' (20.11 m) |
| 1 1/2" | | 779.112 | |

SPIRAL WRAP



Features:

- Allows for flexible protection of cables and hoses
- Bevelled inner edges to prevent damage
- Reusable and resistant to most chemicals

Application:

- Control cabinet doors: protect cable from friction when one end of the cable is fastened within the panel and the other is fastened to the panel door
- Robotics: Protects hoses and wires during movement
- Pneumatic hoses: protects hoses from abrasion while on semi-trucks and other vehicles
- Spark plug wires: lengthens the life of spark plug wires by reducing abrasion to wire insulation

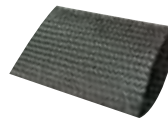
Installation:

- Gapped insulation, with space between the sheathing, allows wire breakouts and keeps the bundle flexible
- Butted installation, with the sheathing completely insulating the bundle, provides superior abrasion resistance and additional rigidity

| | |
|-------------------|----------------------------------|
| Material | Polyethylene (PE) |
| Flammable | Yes |
| Temperature Range | -40 C - +100 C -40 F - +212 F |
| ROHS Conformity | Yes |

| Inner Diameter | | Wall Thickness | | Pitch | | Min. Ø Bundle Dia. | | Max. Ø Bundle Dia. | | Colour | Art. No. | P. Qty. |
|----------------|-------|----------------|-------|-------|-------|--------------------|--------|--------------------|----|--------|----------|-------------------|
| mm | in | mm | in | mm | in | mm | in | mm | in | | | |
| 6.35 | .250" | 1.14 | .045" | 9.53 | .375" | 4.75 | .1875" | 50.8 | 2" | Black | 779.14 | 100' (30.48 m) |
| 9.53 | .375" | 1.32 | .052" | 11.13 | .438" | 7.92 | .3125" | 76.2 | 3" | | 779.38 | |
| 12.7 | .5" | 1.57 | .062" | 12.7 | .5" | 9.52 | .375" | 102 | 4" | | 779.12 | |
| 19.05 | .750" | 1.65 | .065" | 19.05 | .750" | 19.10 | .750" | 127 | 5" | | 779.34 | |
| 25.4 | 1" | 2.41 | .095" | 25.4 | 1" | 25.4 | 1" | 178 | 7" | | 779.1 | |

BRAIDED CABLE SLEEVES



- No fraying!
- Can be cut cold - no special tool required!
- A specially applied surface coating prevents undesirable fraying of cut ends
- Excellent protection against abrasion and rodents
- Excellent resistance to chemicals
- High quality braided cable sleeve for protection or bundling of cables, pipes, wires and hoses in cable fabrication in the automotive and electrical industry and in switch and system construction

Application:

Cargo:

- Heat protection of components (brake lines, etc.)
- Bundling of cable
- Chemical protection

Metal & Industrial:

- Abrasion protection of cables, components, etc.
- Chemical protection
- Cable protection

Installation/Electrical:

- Connector protection, transitions
- Heat protection of components
- Connection of satellite and video equipment
- Transition from corrugated conduit to cable
- Optical bundling

| Technical Data | |
|-------------------|---|
| Colour | Black |
| Material | Polyamide 6.6 |
| | <ul style="list-style-type: none"> • Free of halogens • Free of cadmium • Free of phosphor |
| Temperature Range | -55 °C to +125 °C (-67 °F to +257 °F) |
| Flammability | Self extinguishing according to UL94, DIN 75200, FMVSS 302 and DIN 5510 |

| Nominal width in mm | Bundle dia. in mm | Art. No. | Qty. / m |
|---------------------|-------------------|------------|----------|
| 6 | 4.0 - 10.0 | 771.500030 | 20 |
| 12 | 10.0 - 14.0 | 771.490012 | 15 |
| 16 | 14.0 - 24.0 | 771.480016 | 15 |
| 30 | 26.0 - 34.0 | 771.460030 | 10 |

SHRINK BRAIDED SLEEVE



- A heat shrinkable braided hose made of extremely abrasion resistant fibre
- Very good shrinking behaviour
- No seam movement while shrinking
- Offers excellent protection

Application:

Cargo:

- Heat protection of components (brake lines, etc.)
- Bundling of cable
- Chemical protection

Metal & Industrial:

- Abrasion protection of cables, components, etc.
- Extremely heat resistant (150 °C / 302 °F)
- Chemical protection
- Cable protection

Installation/Electrical:

- Connector protection, transitions
- Heat protection of components
- Connection of satellite and video equipment
- Transition from corrugated conduit to cable

| Technical Data | |
|-------------------|---|
| Colour | Black |
| Material | Polyester PET |
| | <ul style="list-style-type: none"> • Free of halogens • Free of cadmium • Free of phosphor |
| Temperature Range | -40 °C to +150 °C (-40 °F to 302 °F) |
| Shrink Ratio | 2:1 |
| Flammability | Self extinguishing according to HB UL94 |

| Application range (mm) | Width after shrinking (mm) | Art. No. | Qty. / m |
|------------------------|----------------------------|------------|----------|
| 6-12 | 6 | 771.550012 | 5 |
| 12.5-25 | 12 | 771.560025 | |
| 15-30 | 15 | 771.570030 | |

COLOURED HEAT SHRINK TUBE



- Protects against oil, fuel, salt, grease, animal acids and other chemicals
- Acts as strain relief between the cable and connector and prevents abrasion
- Ideal for general purpose application
- Sealant free single wall construction
- Conforms to DOD Mil-I-23053/6 Class 1& 2, also meets UL-224 125 °C specs

| Expanded Dia. | Shrunk Dia. | Use with | Length | Yellow Art. No. | White Art. No. | P. Qty |
|---------------|-------------|-----------|--------|-----------------|----------------|--------|
| 1/8" | 1/16" | 18-14GA | 6" | 771.871.032 | 773.873.032 | 6 |
| 3/16" | 3/32" | 14-10GA | | 771.871.048 | 773.873.048 | |
| 1/4" | 1/8" | 12-8GA | | 771.871.064 | 773.873.064 | |
| 3/8" | 3/16" | 10-6GA | | 771.871.095 | - | |
| 1/2" | 1/4" | 8-2GA | | - | 771.873.127 | |
| 3/4" | 3/8" | 1-2/0GA | | - | 771.873.190 | |
| 1" | 1/2" | 1/0-4/0GA | | 771.871.250 | 771.873.250 | |

| Technical Data | |
|--------------------------------|------------------------------------|
| Material | Polyolefin |
| Shrink Ratio | 2:1 |
| Wall Thickness After Shrinking | 1/32" |
| Water Proof | No |
| Meltable Sealant | No |
| UL Approval | Yes # 224 |
| Operating temperature | -55 ° to +135 °C; -67 ° to +275 °F |

HEAT SHRINK TUBING



| Technical Information | |
|----------------------------------|-------------------|
| Tensile strength | 2450 psi |
| Ultimate elongation | 475% |
| Heat aging (adhesive softens) | 135 °C (275 °F) |
| Cold flex | -35 °C (-31 °F) |
| Dielectric strength (outer wall) | 500 V/mil |
| Dielectric withstand | 1000 Volts AC |
| Current leakage | < 0.250 microamps |

With high flow adhesive

- Adhesive lined.
- Semi-rigid polyolefin.
- 4:1 shrink ratio (tubing will shrink to 25% of its original size; final wall thickness is dependent on the amount of shrinkage).
- Provides excellent strain relief.
- Puncture resistant.
- Resistant to salt water, automotive fluids and corrosive chemicals
- Not affected by severe vibration, extreme temperature changes, moisture or automotive fluids.
- The clear lining is excellent

for applications that require inspection of the contained component.

Application:

- Ideal for applications requiring moisture sealing, mechanical protection and strain relief.
- Adhesive lining is compatible with typical wire insulation.
- Excellent for: RV, truck, trailer, tractor, heavy machinery, marine wire splices, inline components, fusible links and terminals.

| Size | Minimum expanded I.D. | Maximum recovered I.D. | Nominal recovered melt wall | Minimum recovered outer wall | Colour Code | Length | Art. No. | P. Qty. |
|--------|-----------------------|------------------------|-----------------------------|------------------------------|-------------|--------|-----------------|---------|
| 3/16" | 0.220" | 0.045" | 0.030" | 0.027" | White | 6" | 619.5406 | 10 |
| 1/4" | 0.300" | 0.060" | 0.033" | 0.028" | Red | | 619.5416 | |
| 5/16" | 0.350" | 0.080" | 0.038" | 0.033" | Blue | | 619.5426 | |
| 11/16" | 0.450" | 0.105" | 0.043" | 0.053" | Yellow | | 619.5436 | |

HEAT SHRINK TUBING



- Netted radially, polyolefin base
- Insulation material: Class A
- Provides electrical insulation and corrosion protection
- Resistant against solvents and chemicals
- Does not melt
- No internal glue

| Int. Diameter (In) | Shrunk Diameter (mm) | Int. Diameter (mm) | Wall Thickness (mm) | Length | Art. No. |
|--------------------|----------------------|--------------------|---------------------|-------------------------------|-----------------|
| 3/32 | 2.4 | 1.2 | 0.51 | 8 Feet (comes in a bag) | 771.0024 |
| 1/8 | 3.2 | 1.6 | | | 771.0032 |
| 3/16 | 4.8 | 2.4 | | | 771.0048 |
| 1/4 | 6.4 | 3.2 | 0.64 | | 771.0064 |
| 3/8 | 9.5 | 4.8 | | | 771.0095 |
| 1/2 | 12.7 | 6.4 | | | 771.0127 |
| 3/32 | 2.4 | 1.2 | 0.51 | 10 Meters (comes in a box) | 771.024 |
| 1/8 | 3.2 | 1.6 | | | 771.032 |
| 3/16 | 4.8 | 2.4 | | | 771.048 |
| 1/4 | 6.4 | 3.2 | 0.64 | | 771.064 |
| 3/8 | 9.5 | 4.8 | | | 771.095 |
| 1/2 | 12.7 | 6.4 | | | 771.127 |
| 3/4 | 19.0 | 9.6 | 0.76 | 5 Meters (comes in a box) | 771.190 |
| 1 | 25.4 | 12.7 | 0.89 | | 771.254 |

DUAL WALL HEAT SHRINK TUBING



- Adhesive-lined flexible polyolefin
- Meets UL/CSA specifications
- Meets military specifications
- Flame retardant
- Internal layer of special thermoplastic adhesive
- Rated for operation from -55 °C to +110 °C (-67 °F to 230 °F)

Applications:

- Electronic components/wiring
- Wire splices: automotive, truck and marine
- Wire bundles
- Used on braided-shield pigtails

Shrink Ratio: Tubing has a 3:1 shrink ratio (Black is 2.5:1). When fully recovered, the tubing will shrink to 33 % of its original diameter. The recovered wall thickness of the tubing is proportional to the degree of recovery.

| Size (In) | Description | Expanded Diameter | Shrunk Diameter | Use With Gauge | Art. No. | |
|-----------|-------------|-------------------|-----------------|----------------|-----------------|-----------------|
| 1/8"X6" | Black | 1/8" | 3/64" | 24-18 Ga. | 775.018 | |
| 3/16"X6" | | 3/16" | 1/16" | 20-12 Ga. | 775.0316 | |
| 1/4"X6" | | 1/4" | 3/32" | 18-10 Ga. | 775.014 | |
| 3/8"X6" | | 3/8" | 1/8" | 8-6 Ga. | 775.038 | |
| 5/16"X6" | | 5/16" | 3/16" | | 775.0516 | |
| 1/2"X6" | | 1/2" | 3/16" | 6-2 Ga. | 775.012 | |
| 3/4"X6" | | 3/4" | 1/4" | 4-2/0 Ga. | 775.034 | |
| 1"X6" | | 1" | 3/8" | 2-4/0 Ga. | 775.01 | |
| 1/8"X6" | | Red | 1/8" | 3/64" | 24-18 Ga. | 776.018 |
| 3/16"X6" | 3/16" | | 1/16" | 20-12 Ga. | 776.0316 | |
| 1/4"X6" | 1/4" | | 3/32" | 18-10 Ga. | 776.014 | |
| 3/8"X6" | 3/8" | | 1/8" | 8-6 Ga. | 776.038 | |
| 5/16"X6" | 5/16" | | 3/16" | | 776.0516 | |
| 1/2"X6" | 1/2" | | 3/16" | 6-2 Ga. | 776.012 | |
| 3/4"X6" | 3/4" | | 1/4" | 4-2/0 Ga. | 776.034 | |
| 1"X6" | 1" | | 3/8" | 2-4/0 Ga. | 776.01 | |
| 1/8"X6" | Clear | | 1/8" | 3/64" | 24-18 Ga. | 777.018 |
| 3/16"X6" | | 3/16" | 1/16" | 20-12 Ga. | 777.0316 | |
| 1/4"X6" | | 1/4" | 3/32" | 18-10 Ga. | 777.014 | |
| 3/8"X6" | | 3/8" | 1/8" | 8-6 Ga. | 777.038 | |
| 1/2"X6" | | 1/2" | 3/16" | 6-2 Ga. | 777.012 | |
| 3/4"X6" | | 3/4" | 1/4" | 4-2/0 Ga. | 777.034 | |
| 1"X6" | | 1" | 3/8" | 2-4/0 Ga. | 777.01 | |
| 1/8"X6" | | Rigid | 1/8" | 3/64" | 24-18 Ga. | 778.018 |
| 3/16"X6" | | | 3/16" | 1/16" | 20-12 Ga. | 778.0316 |
| 1/4"X6" | 1/4" | | 3/32" | 18-10 Ga. | 778.014 | |
| 3/8"X6" | 3/8" | | 1/8" | 8-6 Ga. | 778.038 | |
| 1/2"X6" | 1/2" | | 3/16" | 6-2 Ga. | 778.012 | |
| 3/4"X6" | 3/4" | | 1/4" | 4-2/0 Ga. | 778.034 | |
| 1"X6" | 1" | | 3/8" | 2-4/0 Ga. | 778.01 | |

HEAT GUN FOR HEAT SHRINK CONNECTORS



Art. No. 555.1

- Suitable for heat shrink tubing, spot heating, laboratories, etc., as an instant heat source
- Built-in safety lock with improved easy to use self-ignition system
- Flame temperature up to approximately 1,300 °C (2,400 °F)
- Wind-proof flame and water-resistant ignition
- Compact size, fits into small tool boxes, bag, etc.
- Runs on butane fuel; built-in fuel level viewing window
- Child-resistant ignition system

RUBBER WIRE CONDUIT



Art. No. 771.8

Int. Diameter: 8 mm, Wall Thickness: 0.7 mm

- Protects wire and electrical connections
- PVC non-braided
- Resistant to aging
- Non-flammable
- According to DIN 40 621 and ASTM

ASSORTMENTS



Art. No. 965.7756

Dual Wall Heat Shrink Assortment

Contents (72 Pieces):

6 sizes of dual wall heat shrink tubing
Size range: 1/8" to 1"



Art. No. 964.7710

Shrink Tube Assortment

Contents (130 Pieces):

8 sizes of heat shrink tubing
Size range: 2.4 mm to 25.4 mm

RUBBER GROMMETS

- Material: PVC, Rubber
- Colour: Black
- Resistant to corrosion, weathering, aging, ozone, oil, petrol and solvents



| 1 Bore Diameter (mm) | 2 Groove Width (mm) | 3 Outside Diameter (mm) | Art. No. | P. Qty |
|----------------------|---------------------|-------------------------|----------|--------|
| 6 | 10 | 14 | 561.6636 | 25 |
| 8 | 11 | 16 | 561.6638 | |
| 10 | 14 | 18 | 561.6640 | |
| 12 | 17 | 20 | 561.6642 | |

| 1 Bore Diameter (mm) | 2 Groove Width (mm) | 3 Outside Diameter (mm) | Art. No. | P. Qty |
|----------------------|---------------------|-------------------------|----------|--------|
| 7 | 8 | 10 | 561.110 | 50 |
| 4 | 9 | 11 | 561.6632 | 100 |
| 4 | 7 | 9 | 561.6634 | |
| 6 | 10 | 13 | 561.6646 | |
| 9 | 11 | 16 | 561.6648 | |
| 10 | 13 | 18 | 561.6650 | 25 |
| 12 | 20 | 25 | 561.6652 | |
| 13 | 22 | 28 | 561.6662 | |
| 16 | 24 | 30 | 561.6663 | |
| 21 | 31 | 38 | 561.6665 | |
| 12 | 14 | 17 | 561.6679 | |
| 21 | 30 | 34 | 561.6681 | |



| 1 Bore Diameter (in) | 2 Groove Width (in) | 3 Outside Diameter (in) | Overall Thickness | Art. No. | P. Qty |
|----------------------|---------------------|-------------------------|-------------------|-----------|--------|
| 3/16 | 1/16 | 5/16 | 1/4 | 561.4413 | 25 |
| 1/4 | 1/16 | 3/8 | 3/16 | 561.16454 | |
| 1/4 | 1/16 | 7/16 | 3/16 | 561.4417 | |
| 5/16 | 1/16 | 7/16 | 3/16 | 561.4419 | |
| 3/8 | 1/16 | 1/2 | 9/32 | 561.4423 | |
| 3/8 | 1/16 | 1 - 1/4 | 1/4 | 561.4425 | |
| 5/8 | 1/8 | 1 - 1/8 | 3/8 | 561.4431 | |
| 3/4 | 1/4 | 1 - 5/8 | 7/16 | 561.4436 | |



Art. No. 964.5616

Rubber Grommet Assortment Contents (555 Pieces):
8 sizes of rubber grommets
Size range: 6 mm to 31 mm



Art. No. 964.56161

Rubber Grommet Assortment Contents (200 Pieces):
12 sizes of rubber grommets
Size range: 6 mm to 31 mm

AUTOMOTIVE FUSES

ATO® Blade Fuses



| Colour | Amps | Art. No. | P.Qty |
|---------|---------|----------|-------|
| Magenta | 3 AMP | 731.003 | 25 |
| Green | 4 AMP | 731.004 | |
| Orange | 5 AMP | 731.005 | |
| Brown | 7.5 AMP | 731.0075 | |
| Red | 10 AMP | 731.010 | |
| Blue | 15 AMP | 731.015 | |
| Yellow | 20 AMP | 731.020 | |
| Clear | 25 AMP | 731.025 | |
| Teal | 30 AMP | 731.030 | |
| Pink | 40 AMP | 731.040 | |

MINI® Blade Fuses



| Colour | Amps | Art. No. | P.Qty |
|--------|---------|-----------|-------|
| Grey | 2 AMP | 731.0021 | 25 |
| Purple | 3 AMP | 731.0031 | |
| Tan | 5 AMP | 731.0051 | |
| Brown | 7.5 AMP | 731.00751 | |
| Red | 10 AMP | 731.0101 | |
| Blue | 15 AMP | 731.0151 | |
| Yellow | 20 AMP | 731.0201 | |
| Clear | 25 AMP | 731.0251 | |
| Green | 30 AMP | 731.0301 | |

MAXI® Blade Fuses



| Colour | Amps | Art. No. | P.Qty |
|--------|--------|----------|-------|
| Brown | 20 AMP | 731.1201 | 5 |
| Green | 30 AMP | 731.1301 | |
| Yellow | 40 AMP | 731.1401 | |
| Red | 50 AMP | 731.1501 | |
| Blue | 60 AMP | 731.1601 | |
| Clear | 80 AMP | 731.1801 | |

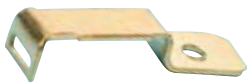
Ultra Mini Fusibles - Type ATO



| Colour | Amps | Art. No. | P.Qty |
|--------|---------|----------|-------|
| Orange | 5 AMP | 731.2101 | 25 |
| Brown | 7.5 AMP | 731.2201 | |
| Red | 10 AMP | 731.2301 | |
| Blue | 15 AMP | 731.2401 | |
| Yellow | 20 AMP | 731.2501 | |
| Clear | 25 AMP | 731.2601 | |
| Green | 30 AMP | 731.2701 | |

ATO® MINI Fuse Block Tap For use with MINI fuses

Art. No. 731.17686 - P. Qty 25

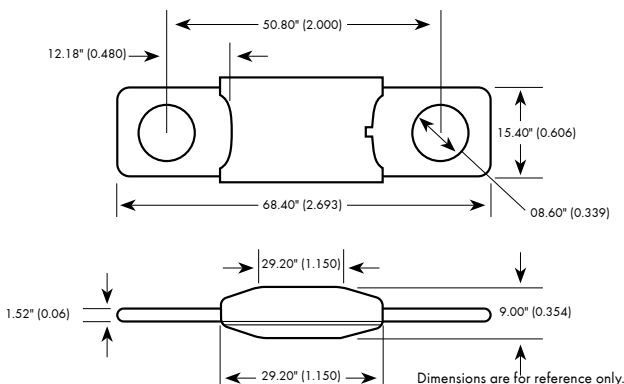


ATO® Fuse Block Tap For use with ATO fuses

Art. No. 731.14474 - P. Qty 25



BOLT-IN FUSES



For high current applications.

- Current Rating: 100-300A
- Voltage Rating: 32VDC
- Interrupt Rating: 1,000A @ 32VDC
- Housing Material: UL-Rated 94V-0 thermoplastic
- Terminal Material: Cooper
- Mounting: M8 or 5/16-18 or less studs on 2.00 in (50.8mm) centres.
- Marking: Colour-coded amperage ratings.

| AMP | Art. No. | P. Qty |
|-----|-----------|--------|
| 100 | 731.31100 | 5 |
| 125 | 731.31125 | |
| 150 | 731.31150 | |
| 175 | 731.31175 | |
| 200 | 731.31200 | |
| 250 | 731.31250 | |
| 300 | 731.31300 | |

FLAT PUSH-IN FUSE MICRO 2 SILVER



Silver-plated version for improved heat removal

OEM quality

| Max. amperage | Colour | Max. nominal voltage | Min./Max. operating temperature | Surface of contacts | Art. No. | P. Qty. |
|---------------|--------|----------------------|---------------------------------|---------------------|------------|---------|
| 5 A | Tan | 32 V/DC | -40 to 125 °C | Silver-plated | 731.31305 | 10 |
| 7.5 A | Brown | | | | 731.313075 | |
| 10 A | Red | | | | 731.31310 | |
| 15 A | Blue | | | | 731.31315 | |
| 20 A | Yellow | | | | 731.31320 | |
| 25 A | Clear | | | | 731.31325 | |
| 30 A | Green | | | | 731.31330 | |

FLAT PUSH-IN FUSE MICRO 3 SILVER



Silver-plated version for improved heat removal

OEM quality

| Max. amperage | Colour | Max. nominal voltage | Min./Max. operating temperature | Surface of contacts | Art. No. | P. Qty. |
|---------------|--------|----------------------|---------------------------------|---------------------|------------|---------|
| 5 A | Tan | 32 V/DC | -40 to 125 °C | Silver-plated | 731.31505 | 10 |
| 7.5 A | Brown | | | | 731.315075 | |
| 10 A | Red | | | | 731.31510 | |
| 15 A | Blue | | | | 731.31515 | |



Art. No. 965.7311

Micro 2/3 Fuse Assortment

Contents (110 Pieces):

10 each of all Micro 2 and Micro 3 fuses.

AUTOMOTIVE FUSES

Glass Tube Fuses



| Description | Amps | Art. No. | P.Qty |
|---------------|----------------|-----------------|-------|
| Auto Fuse Sfe | 4 AMP | 729.704 | 20 |
| | 7.5 AMP | 729.7075 | |
| | 9 AMP | 729.709 | |
| | 20 AMP | 729.720 | |
| Agc Fuse | 30 AMP | 729.730 | |
| | 2 AMP - 250V | 729.902 | |
| | 3 AMP | 729.903 | |
| | 5 AMP | 729.905 | |
| | 10 AMP | 729.910 | |
| | 15 AMP | 729.915 | |
| | 20 AMP | 729.920 | |
| | 25 AMP | 729.925 | |
| 30 AMP | 729.930 | | |

Thermoplast Fuses M25



| Colour | Amps | Art. No. | P.Qty |
|--------|-------|-------------------|-------|
| Yellow | 5AMP | 730.25.5 | 20 |
| White | 8AMP | 730.25.8 | |
| Red | 16AMP | 730.25.161 | |
| Blue | 25AMP | 730.25.25 | |
| Grey | 40AMP | 730.25.40 | |

Circuit Breaker 12V



| Description | Amps | Art. No. | P.Qty |
|---------------------|--------|------------------|-------|
| Circuit Breaker 12V | 10 AMP | 729.18518 | 5 |
| | 15 AMP | 729.18519 | |
| | 20 AMP | 729.18520 | |
| | 30 AMP | 729.18521 | |
| | 40 AMP | 729.18522 | |

The lower overall height reduction of the Low Profile JCASE fuses allows for more space and weight savings and also allows for a shorter male blade terminal, saving additional weight and material savings in fuse box designs.

Low Profile JCASE fuses



| Low Profile JCASE fuses: Technical Data | |
|---|-----------------|
| Voltage | 58 V |
| Interrupting Rating | 1000A @ 58 V |
| Operating temperature | -40°C to +125°C |
| Insertion Force | 53N Max (12 lb) |
| Extraction Force | 9N Min (2 lb) |

| Colour | Amps | Art. No. | P. Qty |
|--------|--------|-----------------|--------|
| Blue | 20 AMP | 730.5020 | 5 |
| White | 25 AMP | 730.5025 | |
| Pink | 30 AMP | 730.5030 | |
| Green | 40 AMP | 730.5040 | |
| Red | 50 AMP | 730.5050 | |
| Yellow | 60 AMP | 730.5060 | |

PAL FLK-MF FLK-M106 Mini Fuses



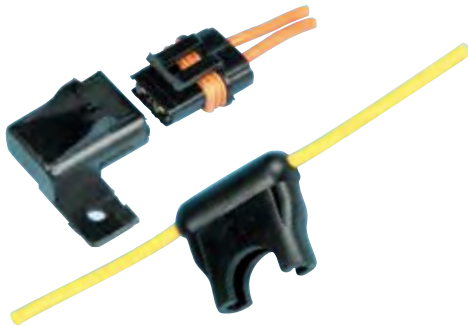
| Colour | Amps | Art. No. | P.Qty |
|--------|--------|-----------------|-------|
| Blue | 20 AMP | 730.2020 | 5 |
| Pink | 30 AMP | 730.2030 | |
| Green | 40 AMP | 730.2040 | |
| Red | 50 AMP | 730.2050 | |
| Yellow | 60 AMP | 730.2060 | |

PAL FLK-F FLK-F101 - F series



| Colour | Amps | Art. No. | P.Qty |
|--------|--------|-----------------|-------|
| Pink | 30 AMP | 730.1030 | 5 |
| Green | 40 AMP | 730.1040 | |
| Red | 50 AMP | 730.1050 | |

ATO IN-LINE FUSE HOLDERS



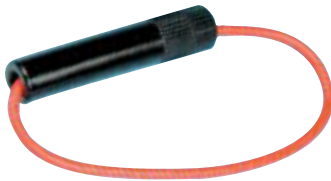
Art. No. 729.110 - P. Qty 2

- Wire Gauge: 12
- Convenient screw mount

Art. No. 729.111 - P. Qty 2

- Wire Gauge: 16

GLASS FUSE HOLDER



Art. No. 729.0018 - P. Qty 5

- Spring loaded
- Equipped with SFE Fuse Amperage: 20
- Wire Gauge: 14
- Uses 729.9 style fuses from 1 amp to 35 amp

NYLON CRIMP TYPE WATERPROOF IN-LINE FUSE HOLDER



1/4 x 1 1/4", 6.35 x 31.8 mm

Art. No. 729.006 - P. Qty 2

- Ideal for harsh environments such as water, salt spray, ultraviolet light, ozone, -40 °C (-40 °F) temperatures and can withstand many organic solvents and rigorous shock and vibration
- Accepts 12 to 18 GA wire leads
- One piece, highly visible yellow, moulded thermoplastic
- Uses 729.9 style fuses from 1 amp to 35 amp
- ROHS compliant

MAXI BLADE FUSE HOLDER

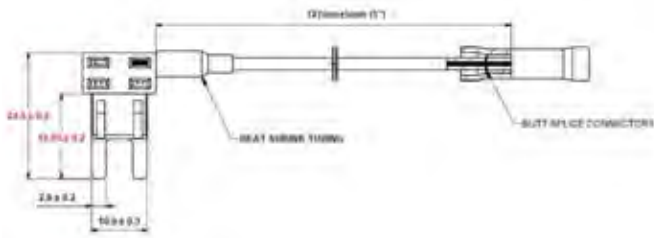
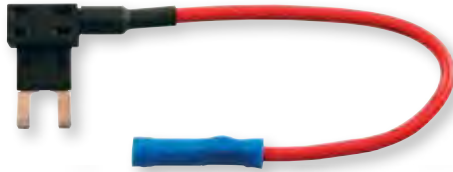


Art. No. 729.11150 - P. Qty 2

- 8 GA fit to 60 Amp
- Water resistant
- Dimensions: 6" (Side); 80mm (L) x 53mm (W)
- Operating temperature: -40°C to +85°C (-40°F to +185°F)

| Technical Data | |
|-----------------------------------|-----------------------------|
| Rated current | 32 V DC |
| Insulation resistance at 500 V DC | 100M Ω min. |
| Contact resistance | 50 m max. |
| Dielectric strength | 1,000V AC, 1 min. |
| Body material | Red & black thermo-plastics |

ADD-A-CIRCUIT FUSE HOLDER



Art. No. 729.1200 - P. Qty 5

Add-A-Circuit MINI® Style

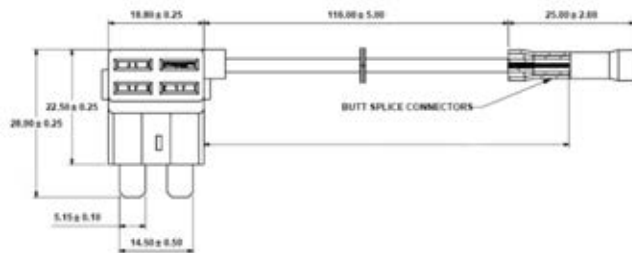
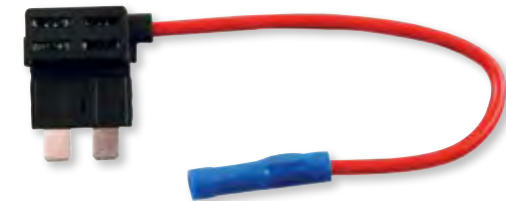
Allows quick and easy installation of additional accessories without the need for splicing

Features:

- Turns one fuse slot into two while providing protection for both circuits
- No cutting of factory wires

Applications:

- Outfitting shops (stereo, alarm, remote start)
- Public work yards



Art. No. 729.1210 - P. Qty 5

Add-A-Circuit ATO® Style

Allows quick and easy installation of additional accessories without the need for splicing

Features:

- Turns one fuse slot into two while providing protection for both circuits
- No cutting of factory wires

Applications:

- Outfitting shops (stereo, alarm, remote start)
- Public work yards

AUTO MINI RELAY BOSCH-STYLE 40AMP 12V



40 AMP Mini relay with mounting bracket and quick-connect terminals is the alarm market's friend. Extremely versatile and conservatively rated for the longest life.

Art. No. 734.12011

| Technical Data | |
|-----------------------|---------------------------|
| Voltage | 12 V |
| Current | 40 A |
| Enclosure | Standard cover w/ bracket |
| Suppression | None |
| Contact material | Hard Silver |
| Mechanical life | 1,000,000 cycles |
| Operating temperature | -40°C to +100°C |
| Duty cycle | Continuous |

FUEL PUMP RELAY BYPASS MASTER KIT



Art. No. 556.19038

The relay bypass switch plugs in place of the fuel pump relay and provides direct control over the fuel pump circuit. Quickly troubleshoot fuel pump relay circuits.

Relay Bypass Kit features six relay switches which are designed to plug in place of the fuel pump relay and provide direct control over the fuel pump circuit. It can be used to actuate the fuel pump when the engine is not running, allowing the fuel pressure to be read, or is often used to bypass the fuel pump control to empty the contents of the fuel tank. Operating Range: 20 Amp Continuous, 30 Amp Surge (12V)

Features and Benefits:

- Actuates fuel pump when the engine is not running
- Plugs in place of relay
- Can be used in any relay circuit with matching pin layouts.
- Controls fuel pump independent of "key on" systems
- Covers most Domestic, Japanese, Korean, and German applications
- Operating range: 20 Amp continuous, 30 Amp surge (12V)

The master set includes:

| | | |
|---|--|--|
| <p>Small Spade Relay 2000 and Newer Domestic Korean and Japanese</p>  | <p>Med. Spade Relay 1970-2009 Domestic and Japanese</p>  | <p>Large Spade Relay 1970-2009 Volkswagen 1999-2005 Audi 2004-2006</p>  |
| <p>Small Rectangular Relay 1985-2008 GM, Chrysler and Japanese</p>  | <p>Square Relay BMW 1995-2006</p>  | <p>Large Rectangular Relay 1995-2007 GM, Chrysler and Japanese</p>  |

ASSORTMENTS



Art. No. 964.731

ATO Fuse Assortment Contents (160 Pieces):

8 types of ATO fuses,
Amp. range: 3 to 30 A



Art. No. 965.731

Blade Type Fuse Assortment Contents (175 Pieces):

21 types of ATO, Mini & Maxi blade type fuses
Amp. range: 3 to 60 A



Art. No. 965.731001

Fuse & Mini Fuse Assortment Contents (180 Pieces):

27 types of Micro 2, micro 3, Mini & Ultra Mini fuses

HEAT SHRINK CONNECTORS

Why Use Heat Shrink Terminals?

Over time, wires can corrode which reduces the current carrying capacity of the electrical system. Adverse conditions can cause the wire or wires to pull-out of the connector. Electrical systems are breached when repairs are made with inferior, unsealed electrical connections.

MULTIPLE WIRE CONNECTORS



555.5720



555.5716



555.5714



555.5710

Hydralink Butt Connectors - Join two wires to one.



Features:

- Colour dash on tubing indicates the wire gauge for the connector
- Colour stripes on the connector indicate which crimp die to use
- Tubing has an active adhesive that seals between multiple wires.

| Hydralink Connectors | | | | | |
|----------------------|---------------------|-----------------------------|--|----------|---------|
| Wire Gauge | Tubing Colour | Colour stripe on conn. | Crimp Die (insulated) | Art. No. | P. Qty. |
| 24-22 AWG | Clear/White Dashes | Side 1: White Side 2: Red | Yellow (24-22 AWG) Red (20-18 AWG) | 555.5720 | 25 |
| 20-18 AWG | Clear/Red Dashes | Side 1: Red Side 2: Blue | Red (20-18 AWG) Blue (16-14 AWG) | 555.5716 | |
| 16-14 AWG | Clear/Blue Dashes | Side 1: Blue Side 2: Yellow | Blue (16-14 AWG) Yellow (12-10 AWG) | 555.5714 | |
| 12-10 AWG | Clear/Yellow Dashes | Side 1: Yellow Side 2: Red | Yellow (12-10 AWG) Red (8 AWG) | 555.5710 | |



555.82214



555.81810

Closed-End Connectors - Join two to four wires



Features:

- Closed end connectors are crimped on end.
- Provides a safe area to avoid corrosion and/or vibration problems.
- Can be used to replace wire nuts.
- Tubing has an active adhesive that seals multiple wires and eliminates wire pull-out.

| Closed End Connectors | | | |
|-----------------------|---------------------|-----------|---------|
| Wire Gauge | Tubing Colour | Art. No. | P. Qty. |
| 22-14 AWG | Clear/Blue Dashes | 555.82214 | 25 |
| 14-10 AWG | Clear/Yellow Dashes | 555.81810 | |

HEAT SHRINK CONNECTORS

CRIMP & SOLDER CONNECTORS



Sealed crimp & solder connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.



8201.9140



8201.9142



8201.9141



8201.9143

| Wire Gauge | Colour | Seam Type | Art. No. | P. Qty. |
|------------|--------|-----------|------------------|---------|
| 24-22 AWG | Clear | Seamless | 8201.9140 | 25 |
| 22-18 AWG | Red | Seamless | 8201.9141 | |
| 16-14 AWG | Blue | Seamless | 8201.9142 | |
| 12-10 AWG | Yellow | Seamless | 8201.9143 | 10 |

Features:

- These connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for quick installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

CRIMP CONNECTORS



555.5164



555.5162



555.5161



555.5160



555.5165

Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

| Wire Gauge | Colour | Seam Type | Art. No. | P. Qty. |
|------------|--------|-----------|------------------|---------|
| 24-22 AWG | Clear | Butted | 555.5160 | 50 |
| | | | 555.51601 | 250 |
| 22-18 AWG | Red | Seamless | 555.5161 | 50 |
| | | | 555.51611 | 250 |
| 16-14 AWG | Blue | Seamless | 555.5162 | 50 |
| | | | 555.51621 | 250 |
| 12-10 AWG | Yellow | Seamless | 555.5164 | 50 |
| | | | 555.51641 | 250 |
| 8 AWG | Pink | Brazed | 555.5165 | 25 |

HEAT SHRINK CONNECTORS

SOLDER CONNECTORS



0555.92071



0555.92072



0555.92073

| Wire Gauge | Colour | Art. No. | P Qty. |
|------------|--------|-------------------|--------|
| 22-18 AWG | Red | 0555.92071 | 25 |
| 16-14 AWG | Blue | 0555.92072 | |
| 12-10 AWG | Yellow | 0555.92073 | |

Features:

- These connectors provide an easy-to-use quality sealed solder connection.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for faster installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

CLEAR "WINDOW" BUTT CONNECTORS



555.516115



555.516215



555.516415

| Wire Gauge | Colour | Art. No. | P. Qty |
|------------|--------|-------------------|--------|
| 18-22 AWG | Red | 555.516115 | 25 |
| 14-16 AWG | Blue | 555.516215 | |
| 10-12 AWG | Yellow | 555.516415 | |

OptiSeal connectors are designed to provide optimal visual assurance of a sealed crimp termination.

Features:

- Window in center of connector assures that wire is seated properly and that the wire is being crimped to the connector
- Colour-coded stripes identify wire gauge size to be used with connector
- Colour-coded stripes also indicate/guide the installer to the proper crimp position on the center of the barrel
- Seamless barrel butt connectors ensure superior crimp performance
- Wire-stop in butt connectors prevents over insertion of wire.

STEP DOWN BUTT CONNECTORS



8201.45101



8201.45102



8201.45103

| Wire Gauge | Colour | Art. No. | P. Qty |
|------------------------|--------|-------------------|--------|
| 22-18 AWG to 16-14 AWG | Blue | 8201.45101 | 20 |
| 16-14 AWG to 12-10 AWG | Yellow | 8201.45102 | 10 |
| 12-10 AWG to 8 AWG | Pink | 8201.45103 | |

Features:

- Varied inside and outside diameter of the connector allows both ends to make a solid crimp.
- Colour-coded stripes guide you during installation.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for faster installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

HEAT SHRINK CONNECTORS

CRIMP CONNECTORS



Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

| Wire Gauge | Colour | Stud Size | Seam Type | Art. No. | P. Qty |
|------------|--------|-----------|-----------------|------------------|--------|
| 22-18 AWG | Red | #8/4mm | Brazed | 555.9011 | 25 |
| 22-18 AWG | | #10/5mm | | 555.9021 | |
| 22-18 AWG | | 1/4"/6mm | | 555.9031 | 10 |
| 22-18 AWG | | 5/16"/8mm | | 555.9041 | 25 |
| 22-18 AWG | | 3/8"/10mm | | 555.90411 | |
| 16-14 AWG | Blue | #8/4mm | | 555.9090 | 10 |
| 16-14 AWG | | #10/5mm | | 555.9092 | 20 |
| 16-14 AWG | | 1/4"/6mm | | 555.9102 | |
| 16-14 AWG | | 5/16"/8mm | | 555.9112 | |
| 16-14 AWG | | 3/8"/10mm | | 555.9122 | |
| 12-10 AWG | Yellow | #8/4mm | 555.9150 | 10 | |
| 12-10 AWG | | #10/5mm | 555.9154 | | |
| 12-10 AWG | | 1/4"/6mm | 555.9164 | | |
| 12-10 AWG | | 5/16"/8mm | 555.9174 | | |
| 12-10 AWG | | 3/8"/10mm | 555.9184 | | |
| 12-10 AWG | | 1/2"/12mm | 555.9190 | | |
| 8 AWG | Pink | 1/4" | Seamless | 555.9200 | 25 |

HEAT SHRINK CONNECTORS

CRIMP & SOLDER RING TERMINALS



8201.911010 8201.911410 8201.911414 8201.911438 8201.911214 8201.910438

| Wire Gauge | Colour | Stud Size | Type | Seam Type | Art. No. | P. Qty. |
|------------|--------|-----------|------|-----------|--------------------|---------|
| 22-18 AWG | Red | #10 | Long | Brazed | 8201.911010 | 25 |
| 16-14 AWG | Blue | #10 | | | 8201.911410 | |
| 16-14 AWG | Blue | 1/4" | | | 8201.911414 | |
| 16-14 AWG | Blue | 3/8" | | | 8201.911438 | |
| 12-10 AWG | Yellow | 1/4" | | | 8201.911214 | |
| 12-10 AWG | Yellow | 3/8" | | | 8201.910438 | |

Features:

- These connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.
- 45° barrel allows installer to see wire is fully inserted and properly stripped and crimped.
- Long neck design allows multiple terminals to be stacked flush without tubing impeding contact.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for quick installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

SOLDER RINGS



8201.831010 8201.84138 8201.841010 8201.841014



8201.84238 8201.801010 8201.801014 8201.80138

Features:

- These connectors provide an easy-to-use quality sealed solder connection.
- 45° barrel allows installer to see wire is fully inserted and properly stripped and crimped.
- Long neck design allows multiple terminals to be stacked flush without tubing impeding contact.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for faster installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

| Wire Gauge | Colour | Stud Size | Type | Art. No. | P. Qty. |
|------------|--------|-----------|------|--------------------|---------|
| 18-22 AWG | Pink | #10 | Long | 8201.831010 | 25 |
| 14-16 AWG | Blue | #8 | | 8201.84138 | |
| 14-16 AWG | Blue | #10 | | 8201.841010 | |
| 14-16 AWG | Blue | 1/4" | | 8201.841014 | |
| 14-16 AWG | Blue | 3/8" | | 8201.84238 | |
| 10-12 AWG | Yellow | #10 | | 8201.801010 | |
| 10-12 AWG | Yellow | 1/4" | | 8201.801014 | |
| 10-12 AWG | Yellow | 3/8" | | 8201.80138 | |

HEAT SHRINK CONNECTORS

SOLDER BLADE CONNECTORS



8201.90152

8201.85202

8201.94152

| Wire Gauge | Colour | Size | Male/Female | Type | Art. No. | P. Qty. |
|------------|--------|------|-------------|-----------------|-------------------|---------|
| 16-14 AWG | Blue | 1/4" | Female | Insulated | 8201.90152 | 25 |
| 16-14 AWG | Blue | 1/4" | Female | Fully insulated | 8201.85202 | |
| 16-14 AWG | Blue | 1/4" | Male | Insulated | 8201.94152 | |

Features:

- These connectors provide an easy-to-use quality sealed solder connection.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
 - Pre-fluxed solder sleeve provides quality soldered connection
 - Low melting point allows for faster installation
 - Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

CRIMP SOLDER BLADE CONNECTORS



8201.142500

8201.952414

| Wire Gauge | Colour | Size | Male/Female | Type | Art. No. | P. Qty. |
|------------|--------|------|-------------|-----------------|--------------------|---------|
| 16-14 AWG | Blue | 1/4" | Female | Fully insulated | 8201.142500 | 25 |
| 16-14 AWG | Blue | 1/4" | Male | Insulated | 8201.952414 | |

Features:

- These connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
 - Pre-fluxed solder sleeve provides quality soldered connection
 - Low melting point allows for quick installation
 - Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

INSULATED CONNECTORS

SPADE CONNECTORS



555.94522 555.90522 555.94544 555.90544 555.92411 555.90511

Features:

- Translucent colour-coded, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Seamless spades prevent opening of connector barrel.

| Spade Connectors | | | | | | |
|------------------|--------|----------|--------|-----------|------------------|---------|
| Wire Gauge | Colour | Tab Size | Type | Seam Type | Art. No. | P. Qty. |
| 16-14 AWG | Blue | .250" | Male | Butted | 555.94522 | 20 |
| 16-14 AWG | Blue | .250" | Female | Butted | 555.90522 | |
| 12-10 AWG | Yellow | .250" | Male | Butted | 555.94544 | |
| 12-10 AWG | Yellow | .250" | Female | Butted | 555.90544 | |
| 20-18 AWG | Red | .250" | Male | Butted | 555.92411 | 10 |
| 20-18 AWG | Red | .250" | Female | Butted | 555.90511 | 20 |

BULLET CONNECTORS



555.9482 555.9492

Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Seamless spades prevent opening of connector barrel.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

| Bullet Connectors | | | | | | |
|-------------------|--------|-----------|------------|-----------|-----------------|---------|
| Wire Gauge | Colour | Stud Size | Type | Seam Type | Art. No. | P. Qty. |
| 16-14 AWG | Blue | .157" | Receptacle | Butted | 555.9482 | 20 |
| 16-14 AWG | Blue | .157" | Plug | Butted | 555.9492 | |

U-TERMINALS



555.95321 555.9542 555.9214 555.9224

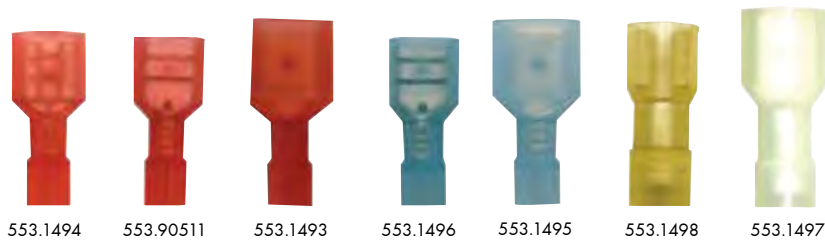
Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

| U-Terminals | | | | | |
|-------------|--------|-----------|-----------|------------------|---------|
| Wire Gauge | Colour | Stud Size | Seam Type | Art. No. | P. Qty. |
| 16-14 AWG | Blue | #8 | - | 555.95321 | 20 |
| 16-14 AWG | Blue | #10 | - | 555.9542 | |
| 12-10 AWG | Yellow | #8 | Brazed | 555.9214 | 10 |
| 12-10 AWG | Yellow | #10 | - | 555.9224 | |

INSULATED CONNECTORS

NYLON FULLY INSULATED SPADE CONNECTORS



553.1494 553.90511 553.1493 553.1496 553.1495 553.1498 553.1497

| Wire Gauge | Colour | Type | Stud Size | Art. No. | P. Qty |
|------------|--------|--------|-----------|------------------|--------|
| 22-18 AWG | Red | Female | 1/4" | 553.1494 | 50 |
| 22-18 AWG | Red | Female | | 553.90511 | 25 |
| 22-18 AWG | Red | Male | | 553.1493 | 50 |
| 16-14 AWG | Blue | Female | | 553.1496 | |
| 16-14 AWG | Blue | Male | | 553.1495 | |
| 12-10 AWG | Yellow | Female | | 553.1498 | |
| 12-10 AWG | Yellow | Male | | 553.1497 | |

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

NYLON SOLDERLESS INSULATED SPADE CONNECTORS



555.9511 555.9515 555.9521 555.9525 555.9531 555.9532

| Spade Connectors | | | | | | |
|------------------|--------|----------|--------|-----------|-----------------|---------|
| Wire Gauge | Colour | Tab Size | Type | Seam Type | Art. No. | P. Qty. |
| 22-18 AWG | Red | .250 " | Male | - | 555.9511 | 20 |
| 22-18 AWG | Red | .250 " | Female | - | 555.9515 | |
| 16-14 AWG | Blue | .250 " | Male | - | 555.9521 | |
| 16-14 AWG | Blue | .250 " | Female | - | 555.9525 | |
| 12-10 AWG | Yellow | .250 " | Male | - | 555.9531 | |
| 12-10 AWG | Yellow | .250 " | Female | - | 555.9532 | |

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

INSULATED CONNECTORS

NYLON SOLDERLESS BUTT CONNECTOR - FLARED ENDS



553.9251



553.9262



553.9274

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

| Nylon Solderless Butt Connector - Flared Ends | | | |
|---|--------|-----------------|--------|
| Wire Gauge | Colour | Art. No. | P. Qty |
| 22-18 AWG | Red | 553.9251 | 50 |
| 16-14 AWG | Blue | 553.9262 | |
| 12-10 AWG | Yellow | 553.9274 | 25 |

90° FLAG CONNECTORS

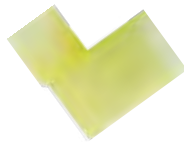
INSULATED FLAG CONNECTORS 1/4 (6.3MM)



558.162165



558.162265



558.162465

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

| Insulated Flag Connector | | | | |
|--------------------------|--------|-----------|-------------------|--------|
| Wire Gauge | Colour | Stud Size | Art. No. | P. Qty |
| 22-18 AWG | Red | 1/4" | 558.162165 | 100 |
| 16-14 AWG | Blue | | 558.162265 | |
| 12-10 AWG | Yellow | | 558.162465 | 50 |

MINI PIN CONNECTORS



553.220



553.221

Features:

- Designed for heavy duty applications and superior performance for extreme vibration and moisture
- 3 part construction contains: inner lug, additional copper sleeve for added strength, crimpability and seamless outer nylon cover
- Serrated barrel for greater wire retention/ pullout strength
- Rated 600V

| Mini Pin Connectors | | | | | |
|---------------------|---------------------------------|---------|--------|----------------|--------|
| Wire Gauge | Description | Mate | Colour | Art. No. | P. Qty |
| 22-18 AWG | Insulated Male Mini Pin .078" | 553.221 | Clear | 553.220 | 20 |
| 22-18 AWG | Insulated Female Mini Pin .078" | 553.220 | | 553.221 | |

CLOSED END CONNECTORS



555.125



555.200



555.550

Features:

- Closed connectors for multi-wire use
- Made of Nylon

| Wire Gauge | Colour | Art. No. | P. Qty |
|------------|--------|----------------|--------|
| 22-18 AWG | Clear | 555.125 | 100 |
| 16-14 AWG | | 555.200 | |
| 12-10 AWG | | 555.550 | |

NON-INSULATED CONNECTORS

NON-INSULATED SOLDERLESS BUTT CONNECTOR



553.9701



553.9702



553.9703



553.9704



553.9705



553.9706



553.9707

Features:

- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength

| Non-Insulated Solderless Butt Connector | | | |
|---|-----------|-----------------|--------|
| Wire Gauge | Seam Type | Art. No. | P. Qty |
| 22-18 AWG | Seamed | 553.9701 | 100 |
| 16-14 AWG | | 553.9702 | |
| 12-10 AWG | | 553.9703 | |
| 8 AWG | Seamless | 553.9704 | 25 |
| 22-18 AWG | | 553.9705 | 100 |
| 16-14 AWG | | 553.9706 | |
| 12-10 AWG | | 553.9707 | 50 |

NON-INSULATED CONNECTORS


Features:

- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength

| Uninsulated Connectors | | | | |
|------------------------|--|----------|------------------|--------|
| Wire Gauge | Description | Mate | Art. No. | P. Qty |
| - | Electrical Connector (1male) (1 female) All ends | - | 553.1380 | 40 |
| 16-14 AWG | Male Spade with lock tab M6.3 | 553.2221 | 553.2221 | 20 |
| 16-14 AWG | Female Spade with lock tab M6.3 | 553.222 | 553.222 | |
| 22-18 AWG | Solderless Ring Terminal #6 | - | 558.11205 | 100 |
| 16-14 AWG | Solderless Ring Terminal #10 | - | 558.11310 | |
| 12-10 AWG | Solderless Ring Terminal #10 | - | 558.11410 | |
| 12-10 AWG | Solderless Ring Terminal #12 | - | 558.11414 | 50 |
| 16-14 AWG | Female Spade Connector M6.3 | - | 558.45040 | 100 |
| 16-14 AWG | Male Spade Connector M6.3 | - | 558.5019 | |
| 16-14 AWG | Female Spade Connector M8 | - | 558.5020 | 50 |
| 16-14 AWG | Female Spade Connector | 558.5144 | 558.5029 | |
| 16-14 AWG | Male Bullet Connector M4 | 558.5051 | 558.5038 | 100 |
| 16-14 AWG | Female Spade Connector M6.3 | 558.5019 | 558.5040 | 50 |
| 12-10 AWG | Female Spade Connector M6.3 | - | 558.5047 | |
| 16-14 AWG | Female Bullet Connector M4 | 558.5038 | 558.5051 | |
| 16-14 AWG | XL Male Spade Connector with locktab | - | 558.5054 | 100 |
| 16-14 AWG | Female Spade Connector 1/4" | - | 558.5135 | |
| 16-14 AWG | Piggyback (1 Male) (1 Female) 1/4" | - | 558.5143 | 50 |
| 16-14 AWG | Male Spade Connector 2.8 | 558.5029 | 558.5144 | |
| 16-14 AWG | Ring Connector M4 (#8) | - | 558.5215 | |
| 16-14 AWG | Ring Connector M5 (#10) | - | 558.5217 | 100 |
| 16-14 AWG | Ring Connector M6 (1/4") | - | 558.5219 | |
| 16-14 AWG | Ring Connector M8 (5/16") | - | 558.5221 | |
| 10-12 AWG | Female Spade Connector M10 (3/8") | - | 558.5266 | 50 |
| 16-14 AWG | Female Spade Connector 4.8mm | - | 558.5312 | 100 |
| 16-14 AWG | Female Spade with lock tab connector (2.8 mm) | - | 558.6010 | |
| - | Piggyback (1 male) (1 female) | - | 558.928 | 50 |
| 22-18 AWG | Blade Connector | - | 558.9967 | |
| 16-14 AWG | Blade Connector | - | 558.9969 | 25 |
| 24-20 AWG | Round Socket Male 1.65m diameter | - | 558.9970 | |
| 16-14 AWG | Blade Connector (4.8/5.8mm) | - | 558.9972 | |

PVC SOLDERLESS BULLET CONNECTORS AND TERMINALS

BULLET CONNECTORS



553.9501 553.9502 553.9503 553.9505 553.9603 553.9605 553.9601

| Bullet Connectors | | | | | |
|-------------------|-------------------------------|----------|--------|-----------------|--------|
| Wire Gauge | Description | Mate | Colour | Art. No. | P. Qty |
| 22-18 AWG | Male Bullet Connector .157" | 553.9502 | Red | 553.9501 | 25 |
| 22-18 AWG | Female Bullet Connector .157" | 553.9501 | Red | 553.9502 | |
| 16-14 AWG | Male Bullet Connector .157" | 553.9505 | Blue | 553.9503 | |
| 16-14 AWG | Female Bullet Connector .157" | 553.9503 | Blue | 553.9505 | |
| 22-18 AWG | Male Bullet Connector .180" | - | Red | 553.9601 | |
| 16-14 AWG | Male Bullet Connector .180" | 553.9605 | Blue | 553.9603 | |
| 16-14 AWG | Female Bullet Connector .180" | 553.9603 | Blue | 553.9605 | |



Features:

- Rigid PVC sleeves for improved abrasion resistance
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

12-10 GA - YELLOW



558.961 558.962 558.9054 558.9464
 558.9521 558.9524 558.9414 558.9214 558.9224 558.9274
 558.9144 558.9154 558.9164 558.9174 558.9184 558.5032



Features:

- Rated 600V, 167° F (75° C) except for disconnects, M/F bullets and piggyback
- Quality terminals for years of dependable service
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength
- Ridged PVC sleeves for improved abrasion resistance

| 12-10 GA Yellow | | |
|-----------------|----------------------------------|--------|
| Art. No. | Description | P. Qty |
| 558.961 | Male Bullet Connector #10 | 25 |
| 558.962 | Female Bullet Connector #10 | |
| 558.9054 | Female Spade Connector M6.3 1/4" | 50 |
| 558.9464 | Male Spade Connector 1/4" | |
| 558.9521 | Piggyback 1/4" | |
| 558.9524 | Male Pin Connector .075" | |
| 558.9414 | Female Spade Connector 3/8" | |
| 558.9214 | U-Term Flat #8 | |
| 558.9224 | U-Term Flat #10 | |
| 558.9274 | Butt Connector | |
| 558.9144 | Ring Terminal #8 | |
| 558.9154 | Ring Terminal #10 | |
| 558.9164 | Ring Terminal 1/4" | 25 |
| 558.9174 | Ring Terminal 5/16" | |
| 558.9184 | Ring Terminal 3/8" | |
| 558.5032 | Ring Terminal 1/2" | |

PVC SOLDERLESS CONNECTORS AND TERMINALS

16-14 GA - BLUE



Features:

- Rated 600V, 167° F (75° C) except for disconnects, M/F bullets and piggyback
- Quality terminals for years of dependable service
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength
- Ridged PVC sleeves for improved abrasion resistance



| 16-14 GA Blue | | | |
|-----------------------------|-----------|--------|-----|
| Description | Art. No. | P. Qty | |
| Male Spade Connector M4.8 | 558.97621 | 50 | |
| Male Spade Connector M6.3 | 558.9452 | | |
| Male Bullet Connector M5 | 558.9482 | | |
| Female Spade Connector M4.8 | 558.9762 | | |
| Female Spade Connector M6.3 | 558.9052 | | |
| Female Spade Connector M6.3 | 558.90522 | | |
| Female Spade Connector M8 | 558.9402 | | |
| Female Bullet M5 | 558.9492 | | |
| Piggyback M6.3 | 558.9432 | | |
| Male Pin Connector | 558.9512 | | |
| Ring Terminal M3.5 hole #6 | 558.9072 | | |
| Ring Terminal M4 hole #8 | 558.9082 | | |
| Ring Terminal M5 hole #10 | 558.9092 | | |
| Ring Terminal M6 hole 1/4" | 558.9102 | | |
| Ring Terminal M8 hole 5/16" | 558.9112 | | |
| Ring Terminal M10 hole 3 | 558.9122 | | |
| U Terminal Flat M5 #10 | 558.9542 | | |
| U-Terminal Flat M4 | 558.9532 | | |
| Butt Connector | 558.9262 | | 100 |

22-18 GA - RED

Features:

- Rated 600V, 167° F (75° C) except for disconnects, M/F bullets and piggyback
- Quality terminals for years of dependable service
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength
- Ridged PVC sleeves for improved abrasion resistance



| 22-18 GA Red | | | |
|-------------------------------|-----------|--------|-----|
| Description | Art. No. | P. Qty | |
| Male Spade Connector M2.8 | 558.9751 | 50 | |
| Female Spade Connector M2.8 | 558.960 | | |
| Male Spade Connector M4.8 | 558.97611 | | |
| Female Spade Connector M4.8 | 558.9761 | | |
| Male Spade Connector M6.3 | 558.9441 | | |
| Female Spade Connector M6.3 | 558.9051 | | |
| Female Spade Connector M6.3 | 558.90511 | | |
| Bullet Male Connector M4 | 558.9461 | | 100 |
| Bullet Female Connector M4 | 558.9471 | | 50 |
| Piggyback Connector M6.3 | 558.9421 | | |
| Male Pin Connector | 558.9501 | 100 | |
| Ring Terminal M4 hole (#8) | 558.9011 | | |
| Ring Terminal M5 hole (#10) | 558.9021 | 50 | |
| Ring Terminal M6 hole (1/4") | 558.9031 | | |
| Ring Terminal M8 hole (5/16") | 558.9041 | 25 | |
| U-Term Flat M4 | 558.9551 | 50 | |
| Butt Connector | 558.9251 | | |

PREMIUM NYLON CONNECTORS AND TERMINALS - HEAVY DUTY - 600V

12-10 GA - YELLOW



967.09464 967.09054 967.09144 967.09154 967.09164 967.09174



967.09184 967.09194 967.09214 967.09224 967.09274

Features:

- Rated 600V
- Designed for heavy duty applications and superior performance for extreme vibration and moisture.
- Tin Plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Temperatures -67 to 221°F (-55 to 105°C)

| 12-10 GA Yellow | | |
|---|------------------|--------|
| Description | Art. No. | P. Qty |
| Heavy Duty Female Spade Connector 1/4" hole | 967.09054 | 50 |
| Heavy Duty Ring Terminal M4 hole (#8) | 967.09144 | |
| Heavy Duty Ring Terminal M5 hole (#10) | 967.09154 | |
| Heavy Duty Ring Terminal M6 hole (1/4") | 967.09164 | |
| Heavy Duty Ring Terminal M8 hole (5/16") | 967.09174 | |
| Heavy Duty Ring Terminal M10 hole (3/8") | 967.09184 | |
| Heavy Duty Ring Terminal 1/2" hole | 967.09194 | 25 |
| Heavy Duty U-Term Flat M4 #8 | 967.09214 | |
| Heavy Duty U-Term Flat M5 (#10) | 967.09224 | 50 |
| Heavy Duty Butt Connector | 967.09274 | |
| Heavy Duty Male Spade Connector 1/4" | 967.09464 | |

16-14 GA - BLUE



967.09503 967.09505 967.09452 967.09052 967.8004 967.8007



967.09262 967.09072 967.09082 967.09092 967.09102 967.09112



967.09122 967.09530 967.09532 967.8003 967.9432 967.9512

Features:

- Rated 600V
- Designed for heavy duty applications and superior performance for extreme vibration and moisture.
- Tin Plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Temperatures -67 to 221°F (-55 to 105°C)

| 16-14 GA Blue | | |
|---------------------------------------|------------------|--------|
| Description | Art. No. | P. Qty |
| Female Spade Connector 1/4" hole | 967.09052 | 50 |
| Ring Terminal M3.5 hole | 967.09072 | |
| Ring Terminal M4 hole #8" | 967.09082 | |
| Ring Terminal M5 hole #10" | 967.09092 | |
| Ring Terminal M6 hole 1/4" | 967.09102 | |
| Ring Terminal M8 hole 5/16" | 967.09112 | |
| Ring Terminal M10 hole 3/8" | 967.09122 | |
| Butt Connector | 967.09262 | |
| Male Spade 1/4" | 967.09452 | |
| Male Bullet | 967.09503 | |
| Female Bullet | 967.09505 | |
| U-Term #6 | 967.09530 | |
| U-Term Flat #8 | 967.09532 | |
| Fully insulated Female Connector M4.8 | 967.8003 | |
| Fully insulated Female Connector M6.3 | 967.8004 | |
| Fully Insulated Male Connector M6.3 | 967.8007 | |
| Duty Nylon Piggyback M6.3 | 967.9432 | |
| Nylon Pin Terminal M6.3 | 967.9512 | |

PREMIUM NYLON CONNECTORS AND TERMINALS - HEAVY DUTY - 600V

22-18 GA - RED


Features:

- Rated 600V
- Designed for heavy duty applications and superior performance for extreme vibration and moisture.
- Tin Plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Temperatures -67 to 221°F (-55 to 105°C)

| 22-18 GA Red | | |
|--|------------------|--------|
| Description | Art. No. | P. Qty |
| Ring Terminal M4 hole (#8) | 967.09011 | 100 |
| Ring Terminal M5 hole (#10) | 967.09021 | 50 |
| Ring Terminal M6 hole (1/4") | 967.09031 | |
| Ring Terminal M8 hole (5/16") | 967.09041 | |
| Spade Connector 1/4" hole | 967.09051 | |
| Butt Connector | 967.09251 | |
| Male Spade Connector M6.3 | 967.09441 | |
| Nylon Male Bullet | 967.09501 | 100 |
| Nylon Female Bullet | 967.09502 | |
| U-Term M3.7 | 967.09550 | |
| U-Term M4 | 967.09551 | |
| Female Spade Connector M2.8 | 967.0960 | |
| Female Spade Connector M4.8 | 967.09761 | |
| Fully Insulated Female Spade Connector | 967.8002 | 50 |
| Fully Insulated Male Spade Connector | 967.8006 | |
| Nylon Pin Terminal M6.3 | 967.9501 | |

SCOTCH LOCKS



555.562



555.564



555.557



555.567



555.558

| Scotch Locks | | | | |
|-------------------------------------|------------|--------|----------------|--------|
| Description | Wire Gauge | Colour | Art. No. | P. Qty |
| Scotch Lock - Run + Tap | 12-10 AWG | Yellow | 555.562 | 25 |
| Scotch Lock - Run + Tap | 16-14 AWG | Blue | 555.564 | 50 |
| Scotch Lock for Multiple Wires | 16-14 AWG | Brown | 555.567 | |
| Scotch Lock - Dual Element | 22-18 AWG | Red | 555.557 | |
| Scotch Lock - open end for all ends | 22-18 AWG | Red | 555.558 | |

Insulation Displacement Connectors

Features:

- Quick and reliable installation
- Solvent resistant plastic

Use:

- To install, just squeeze
- No stripping or twisting required

TAP CONNECTORS-1/4"



555.951



555.952



555.953

| Tap Connector | | | | |
|---------------|--------|------------|----------------|--------|
| Wire Gauge | Colour | Mates With | Art. No. | P. Qty |
| 22-18 AWG | Red | 555.9511 | 555.951 | 25 |
| 16-14 AWG | Blue | 555.9521 | 555.952 | 50 |
| 12-10 AWG | Yellow | 555.9531 | 555.953 | 25 |

Features:

- Rigid PVC for improved abrasion resistance
- Solderless
- Flame Retardant

WIRE NUTS



553.10378



553.10380



553.10381

| Wire Nuts | | | | |
|------------|---------|--------|------------------|--------|
| Wire Gauge | Voltage | Colour | Art. No. | P. Qty |
| 24-16 AWG | 300 | Grey | 553.10378 | 25 |
| 20-14 AWG | 600 | Orange | 553.10380 | |
| 18-12 AWG | | Yellow | 553.10381 | 10 |

Features:

- Use on solid or stranded copper wire
- Threaded steel insert permits positive bite
- Can be used with multiple wires

GM METRIPACK TERMINALS



557.15939



557.15938



557.15944



557.15945



557.15946



557.15947



557.14150



557.14151

Features:

- Tin plates that utilize flex pin and lap-lock designs to provide the highest reliability.
- Dual locking tangs securely hold terminal inside the connector cavity.



557.15937



557.15948



557.18324



557.18325



557.15499



557.15498



557.14883



557.15497



557.14880



557.14881

| GM Metripack Terminals | | | | |
|------------------------|-------|-----------|-------------------|--------|
| Description | Gauge | Mate | Art. No. | P. Qty |
| Male Pin Terminal | 20-18 | 557.14151 | 557.14150 | 20 |
| Female Pin Terminal; | 20-18 | 557.14150 | 557.14151 | |
| Male Pin Terminal | 18-14 | - | 557.14880 | |
| GM Electronic Terminal | 20-18 | - | 557.14883 | 10 |
| | 20-18 | - | 557.15497 | |
| GM Metripack Terminal | 20-18 | - | 557.15498 | 20 |
| | 20-16 | - | 557.15499 | |
| | 16-14 | 557.15939 | 557.15938 | |
| | 16-14 | 557.15938 | 557.15939 | |
| | 16-14 | 557.15945 | 557.15944 | |
| | 16-14 | 557.15944 | 557.15945 | |
| | 20-18 | 557.15947 | 557.15946 | |
| | 20-18 | 557.15946 | 557.15947 | |
| | 16-14 | 557.15948 | 557.15937 | |
| | 16-14 | 557.15937 | 557.15948 | |
| | 12 | 557.18325 | 557.18324* | |
| | 12 | 557.18324 | 557.18325* | |
| | 16-14 | 557.14880 | 557.14881 | |

METRIPACK TERMINALS

GM WEATHERPACK



Features:

- Tin plates that utilize flex pin and lap-lock designs to provide the highest reliability.
- Dual locking tangs securely hold terminal inside the connector cavity.

| GM Weatherpack | | | |
|-------------------------------|-------|------------------|--------|
| Description | Gauge | Art. No. | P. Qty |
| Repair Lead 10" (18 opi wire) | 20-18 | 557.15921 | 5 |
| | 20-18 | 557.15922 | |
| Green Silicone Cavity Plug | - | 557.15955 | 50 |
| GM Weatherpack Cable Seal | 14 | 557.18326 | 20 |
| | 20-18 | 557.14152 | |

FORD METRIPACK TERMINALS

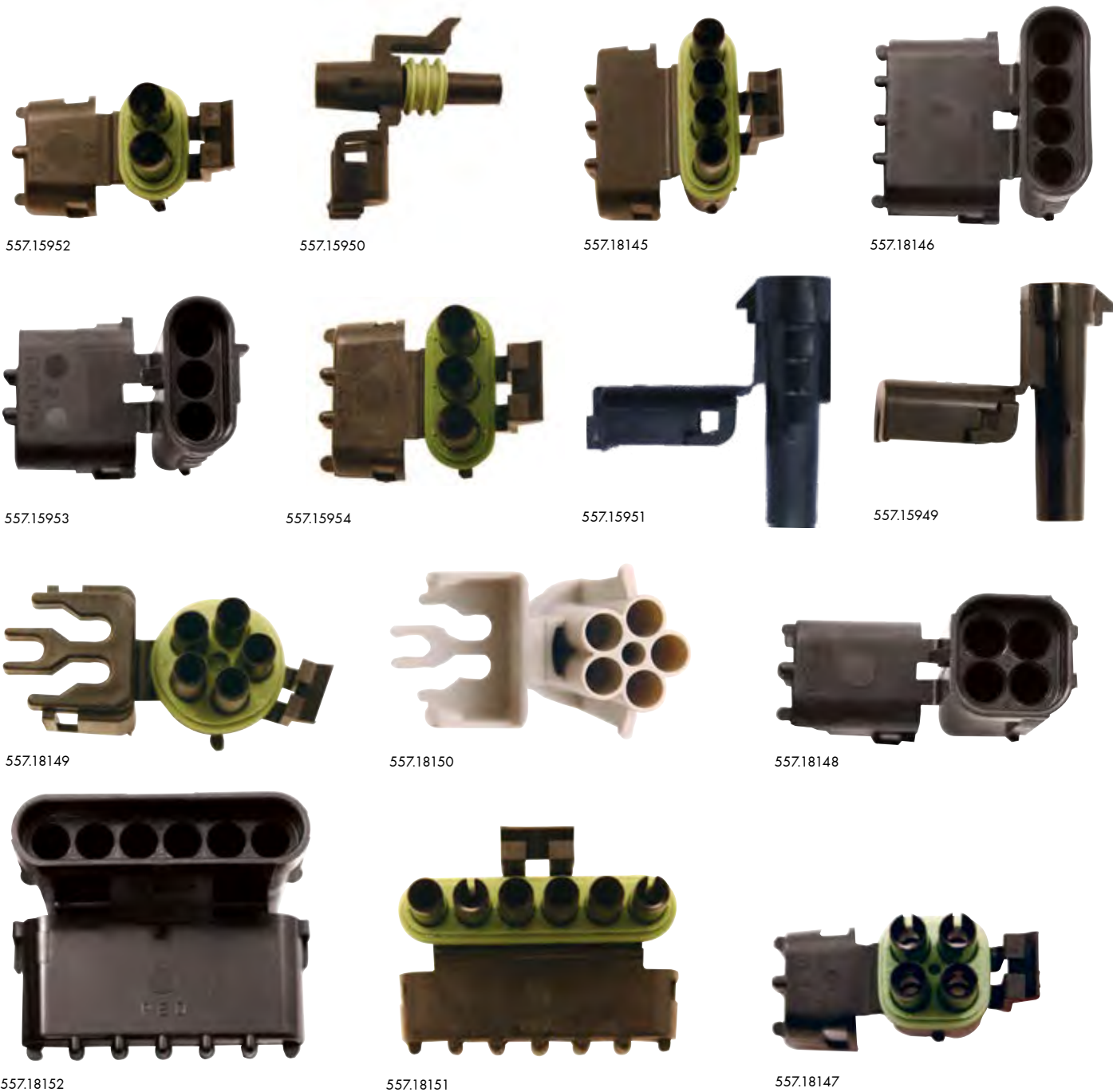


Features:

- Tin plates that utilize flex pin and lap-lock designs to provide the highest reliability.
- Dual locking tangs securely hold terminal inside the connector cavity.

| Ford Metripack Terminals | | | | |
|------------------------------|-------|-----------|------------------|--------|
| Description | Gauge | Mate | Art. No. | P. Qty |
| Ford Male Terminal | 20-18 | 557.16344 | 557.16342 | 10 |
| Ford Female Terminal | 20-18 | 557.16342 | 557.16344 | |
| Ford Box Female Terminal | 20-18 | - | 557.14889 | 25 |
| Ford Female Snap On Terminal | 20-18 | - | 557.14892 | 20 |

CAVITY MATES



| Cavity Mate Terminals | | | | |
|---------------------------------|-----------|----------------|------------------|--------|
| Description | Mate | For Connection | Art. No. | P. Qty |
| 4 Cavity Male Tower | 557.18146 | 557.15948 | 557.18145 | 5 |
| 4 Cavity Female Terminal | 557.18145 | 557.15937 | 557.18146 | |
| 5 Cavity Round Male Terminal | 557.18150 | | 557.18149 | 10 |
| 5 Cavity Round Female Terminal | 557.18149 | 557.15937 | 557.18150 | |
| 4 Cavity Square Male Terminal | 557.18148 | - | 557.18147 | 20 |
| 4 Cavity Square Female Terminal | 557.18147 | - | 557.18148 | |
| 6 Cavity Female Terminal | 557.15948 | - | 557.18152 | 10 |
| 6 Cavity Male Terminal | 557.18152 | 557.15948 | 557.18151 | |
| 3 Cavity Male Terminal | 557.15954 | 557.15948 | 557.15953 | |
| 3 Cavity Female Terminal | 557.15953 | 557.15937 | 557.15954 | |
| 2 Cavity Male Terminal | 557.15952 | | 557.15951 | |
| 2 Cavity Female Terminal | 557.15951 | 557.15937 | 557.15952 | 20 |
| 1 Cavity Female Terminal | 557.15949 | 557.15937 | 557.15950 | |
| 1 Cavity Male Terminal | 557.15950 | 557.15948 | 557.15949 | 10 |

ASSORTMENTS



Art. No. 964.5581

**Insulated Cable Connector Assortment
Contents (531 Pieces):**

18 types of insulated cable connectors



Art. No. 964.0558

**Electrical Connector Assortment
Contents (450 Pieces):**

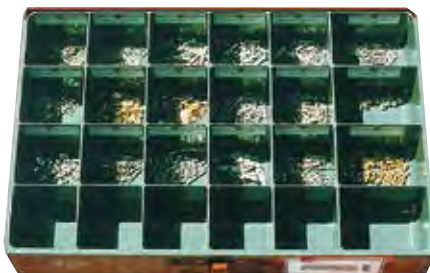
18 types of Prefix 555 & 558
insulated electrical connectors



Art. No. 965.5531

**Start-Up Connector Assortment
Contents (675 Pieces):**

14 types of Prefix 553 insulated electrical connectors



Art. No. 965.557

**GM/Ford Pin Terminal Assortment
Contents (300 Pieces):**

15 types of domestic pin terminals



Art. No. 965.967

**600 Volt Electrical Connector Assortment
Contents (675 Pieces):**

15 types of Prefix 967 600 V insulated
electrical connectors



Art. No. 965.5551

**Heat Shrink Electrical Connector Assortment
Contents (195 Pieces):**

15 types of heat shrink electrical connectors



Art. No. 965.5554

**Hydralink Assortment
Contents (64 Pieces):**

4 sizes of hydralink heat shrink tubing, 4 sizes
of butt connectors, 2 closed end connectors



Art. No. 965.055501

**Heat Shrink Solder Connector Assortment
Contents (65 Pieces):**

13 types of heat shrink solder connectors including
butt connectors, ring terminals and blade connectors

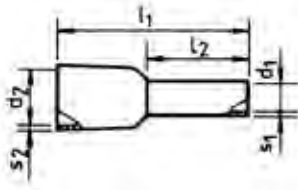


Art. No. 965.558600

**PVC Solderless Connector Assortment
Contents (600 Pieces):**

24 different PVC connectors, including ring
terminals, bullet connectors and spade connectors

WIRE END FERRULES (WITH PLASTIC SLEEVES)



- Inlet nipple heat resistant up to 110 °C (230 °F)
- Tube: Copper, electroplated tin
- Free of halogens

| Cross section in mm ² / in ² | Colour | Dimensions | | | | | | Art. No. | P. Qty. |
|--|--------|-------------|-------------|------------|--------------|------------------|-------------|------------------|---------|
| | | L1 (mm/ in) | L2 (mm/in) | d1 (mm/in) | S1 (mm/in) | d2 (mm/ in) | S2 (mm/ in) | | |
| 4.0 / 0.006 | grey | 17.8 / 0.70 | 10.0 / 0.39 | 2.8 / 0.11 | 0.20 / 0.008 | 4.4 / 0.17 | 0.40 / 0.16 | 557.00400 | 1000 |
| 10.0 / 0.016 | ivory | 21.5 / 0.85 | 12.0/0.47 | 4.5 / 0.18 | | 7.6 / 0.30 | | 557.01000 | 500 |
| 16.0 / 0.025 | green | 22.2 / 0.87 | | 5.8 / 0.23 | 8.8 / 0.35 | 557.01600 | 100 | | |

WIRE END FERRULE BOX



Art. No. 557.101

Contents: 100 pieces

| Cross section in mm ² / in ² | Colour | # of Pieces | Art. No. |
|--|--------|-------------|------------------|
| 4.0 / 0.006 | Grey | 50 | 557.00400 |
| 6.0 / 0.009 | Black | 20 | 557.00600 |
| 10.0 / 0.016 | Ivory | 20 | 557.01000 |
| 16.0 / 0.025 | Green | 10 | 557.01600 |

LUGS

COPPER LUGS



557.1543 557.1540 557.1575 557.1532 557.1541

Features:

- Seamless 100% copper tube construction.
- Can be crimped or soldered.
- Ideal for general wiring as well as starter or ground connections.



557.1553 557.1582 557.1551 557.1570 557.1571 557.1603 557.1552 557.1542



557.1605 557.1591 557.1604 557.1581 557.1580 557.1601 557.1592 557.1593 557.1602

| Wire End copper lugs | | | |
|----------------------|-----------|----------|--------|
| Gauge | Hole Size | Art. No. | P. Qty |
| 4/0 | 3/8" | 557.1543 | 10 |
| 4/0 | 1/2" | 557.1540 | |
| 3/0 | 1/2" | 557.1575 | |
| 3/0 | 3/8" | 557.1532 | |
| 2/0 | 1/2" | 557.1541 | |
| 2/0 | 3/8" | 557.1542 | |
| 1 GA | 3/8" | 557.1582 | |
| 1/0 | 1/2" | 557.1551 | |
| 1 GA | 1/2" | 557.1570 | |
| 1 GA | 5/16" | 557.1603 | |
| 1/0 | 3/8" | 557.1552 | |

| Wire End copper lugs | | | | |
|----------------------|-----------|----------|--------|----|
| Gauge | Hole Size | Art. No. | P. Qty | |
| 2 GA | 3/8" | 557.1553 | 10 | |
| 2 GA | 5/16" | 557.1605 | | |
| 4 GA | 1/4" | 557.1591 | | |
| 4 GA | 3/8" | 557.1581 | | |
| 4 GA | 1/2" | 557.1580 | | |
| 4 GA | 5/16" | 557.1604 | | |
| 6 GA | 1/4" | 557.1601 | | |
| 6 GA | 1/2" | 557.1592 | | |
| 6 GA | 3/8" | 557.1593 | | 20 |
| 6 GA | 5/16" | 557.1602 | | 10 |
| 2 GA | 1/2" | 557.1571 | | |

LUGS PREFIX 557

90° MAX LUGS

Features:

- Seamless 100% copper tube construction
- Can be crimped or soldered
- Ideal for general wiring as well as starter or ground connections
- Tin Plated



557.595100



557.5952



557.595200



557.5953



557.595400



557.5955



557.595300



557.595500



557.5956



557.595800



557.595700



557.5958



557.595600



557.5957

| 90° Max Copper Lugs - Tin Plated | | | |
|----------------------------------|-----------|------------|--------|
| Gauge | Hole Size | Art. No. | P. Qty |
| 6 GA | 1/2" | 557.595100 | 5 |
| 4 GA | 3/8" | 557.5952 | |
| 4 GA | 1/2" | 557.595200 | |
| 2 GA | 3/8" | 557.5953 | |
| 2 GA | 1/2" | 557.595300 | |
| 1 GA | 1/2" | 557.595400 | |

| 90° Max Copper Lugs - Tin Plated | | | |
|----------------------------------|-----------|------------|--------|
| Gauge | Hole Size | Art. No. | P. Qty |
| 1/0 | 3/8" | 557.5955 | 5 |
| 1/0 | 1/2" | 557.595500 | |
| 2/0 | 3/8" | 557.5956 | |
| 2/0 | 1/2" | 557.595600 | |
| 3/0 | 3/8" | 557.5957 | |
| 3/0 | 1/2" | 557.595700 | |
| 4/0 | 3/8" | 557.5958 | |
| 4/0 | 1/2" | 557.595800 | |

LUGS

MAGNA LUGS - RIGHT ELBOW



557.6308



557.6310



557.6312



557.6313



557.6309



557.6311

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Elbows and bent lugs are designed to reduce cable stress in confined space
- Excellent for commercial and industrial applications
- Flameless installation; safe for shop and field repair

| Magna Lug | | | | |
|-----------|-----------|-------------|----------|--------|
| Gauge | Hole Size | Elbow | Art. No. | P. Qty |
| 6 GA | 3/8" | Right Elbow | 557.6308 | 5 |
| 4 GA | | | 557.6309 | |
| 1 & 2 | | | 557.6310 | |
| 1/0 | | | 557.6311 | |
| 2/0 | | | 557.6312 | |
| 3/0 | | | 557.6313 | |

LUGS

MAGNA LUGS - LEFT ELBOW



557.6318



557.6320



557.6321



557.6323



557.6324



557.6319



557.6322

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Elbows and bent lugs are designed to reduce cable stress in confined spaces
- Excellent for commercial and industrial applications

| Magna Lug | | | | |
|-----------|-----------|------------|----------|--------|
| Gauge | Hole Size | Elbow | Art. No. | P. Qty |
| 6 GA | 3/8" | Left Elbow | 557.6318 | 5 |
| 4 GA | | | 557.6319 | |
| 1 & 2 | | | 557.6320 | |
| 1/0 | | | 557.6321 | |
| 2/0 | | | 557.6322 | |
| 3/0 | | | 557.6323 | |
| 4/0 | | | 557.6324 | |

LUGS

POWER LUGS

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Exceeds SAE conductivity standards J163 and J1811



557.91705 557.91706 557.91707 557.91715 557.91716 557.91717 557.91725



557.91726 557.91727 557.91728 557.91745 557.91746 557.91747 557.91749 557.91757



557.91759 557.91767 557.91769 557.91777 557.91779 557.91787 557.91789

LUGS

POWER LUGS

| Power Lugs | | | | |
|------------|-----------|--------|------------------|---------|
| Gauge | Hole Size | Colour | Art. No. | P. Qty. |
| 8 GA | 1/4" | Grey | 557.91705 | 5 |
| 8 GA | 5/16" | | 557.91706 | |
| 8 GA | 3/8" | | 557.91707 | |
| 6 GA | 1/4" | | 557.91715 | |
| 6 GA | 5/16" | | 557.91716 | |
| 6 GA | 3/8" | | 557.91717 | |
| 4 GA | 1/4" | | 557.91725 | |
| 4 GA | 5/16" | | 557.91726 | |

| Power Lugs | | | | |
|------------|-----------|--------|------------------|---------|
| Gauge | Hole Size | Colour | Art. No. | P. Qty. |
| 4 GA | 3/8" | Grey | 557.91727 | 5 |
| 4GA | 1/2" | | 557.91728 | |
| 1-2 | 1/4" | | 557.91745 | |
| 1-2 | 5/16" | Pink | 557.91746 | |
| 1-2 | 3/8" | | 557.91747 | |
| 1-2 | 1/2" | | 557.91749 | |
| 1/0 | 3/8" | Black | 557.91757 | |
| 1/0 | 1/2" | | 557.91759 | |

| Power Lugs | | | | |
|------------|-----------|--------|------------------|---------|
| Gauge | Hole Size | Colour | Art. No. | P. Qty. |
| 2/0 | 3/8" | Orange | 557.91767 | 5 |
| 2/0 | 1/2" | | 557.91769 | |
| 3/0 | 3/8" | Purple | 557.91777 | |
| 3/0 | 1/2" | | 557.91779 | |
| 4/0 | 3/8" | Yellow | 557.91787 | |
| 4/0 | 1/2" | | 557.91789 | |

BRASS-TIN PLATED LUGS

Features:

- Seamless 100% copper tube construction.
- Can be crimped or soldered.
- Ideal for general wiring as well as starter or ground connections.

| Brass-Tin Plated Lugs | | | |
|-----------------------|-----------|-----------------|---------|
| Gauge | Hole Size | Art. No. | P. Qty. |
| 4 GA | 3/8" | 557.9225 | 25 |
| 1/0 | 1/2" | 557.9234 | |
| 2 GA | 1/2" | 557.9230 | 10 |
| 2/0 | 3/8" | 557.9237 | |
| 1/0 | 3/8" | 557.9233 | |
| 2 GA | 3/8" | 557.9229 | 25 |
| 2 GA | 5/16" | 557.9228 | |
| 6 GA | 3/8" | 557.9221 | |
| 4 GA | 5/16" | 557.9224 | |
| 6 GA | 5/16" | 557.9220 | |
| 6 GA | 1/4" | 557.9219 | |



557.9234



557.9237



557.9230



557.9233



557.9225



557.9229



557.9228



557.9221



557.9224



557.9220



557.9219

ASSORTMENTS



Art. No. 965.5572

Light Duty Copper Lug Assortment Contents (205 Pieces):

16 types of copper lugs/ring tongues
Size range: 1 GA to 4/0



Art. No. 965.557150

Copper Lug Assortment Contents (70 Pieces):

14 assorted sizes from 1/4" to 1/2"
Size range: 4 GA to 3/0



Art. No. 965.5573

Heavy Duty Power Lug Assortment Contents (45 Pieces):

9 types of heavy duty power lugs
Size range: 1 GA to 4/0

POLE TERMINAL BRUSH



Art. No. 695.589544

- Cleans dirt and corrosion from battery terminals and cable clamps
- Strong metallic bristles for excellent deposit removal
- Convenient lid provides safe storage
- Rotate the round battery terminal brush on each terminal to ensure a good, solid electrical connection

BOOSTER CLAMPS



- Solid copper clamp for maximum conductivity
- Weighs over 3/4 lb
- Insulated grips
- 3 coil spring provides over 50 lbs of clamping pressure
- Strain relief for longer cable life
- Lugs bolt to booster clamp

| Description | Grip Colour | Clamp Amp. Rating | Clamp Style | Art. No. |
|---------------|-------------|-------------------|-------------|-----------------|
| Booster Clamp | Red | 900 Amp | Parrot | 715.3051 |
| Booster Clamp | Black | 900 Amp | Parrot | 715.3056 |

HARD DIAMOND COATED TERMINAL TWEEZERS



Art. No. 695.6000

This 3 piece set features a highly durable and abrasive coating for cleaning small spade pin electrical connectors. They reduce diagnostic guesswork and increase overall harness life.

Features:

- For flat and spade style terminals
- Works on both male and female connectors
- Removes corrosion and extends harness life
- Reduces diagnostic guesswork by eliminating bad connectors
- Includes a holster for small medium and large cleaners

Contents:

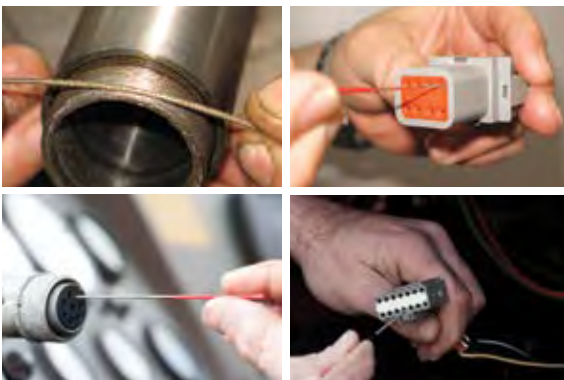
Large, medium and small tweezers for the most common connectors found in automotive, trucks, heavy equipment, and agricultural machinery.

REPLACEMENT ITEMS ARE NOT CURRENTLY AVAILABLE.

Areas of application:

Computer modules, Engines, General transmissions, Fans, Alternator connections, Radios, Lights

SUPER HARD DIAMOND COATED ROUND MICRO FILES - 12 PIECES



Art. No. 695.6001

Great for cleaning and reworking small type electrical bullet connectors as well as general filing applications on Steel, Brass, Aluminum and Plastic

Features:

- Diamond coated round micro files
- 12 piece set in a custom holster
- Made from stainless spring steel wire for optimum strength and flexibility
- Remove corrosion from round electrical connectors
- Also for use in general filing applications such as steel, aluminum, plastic, brass etc.
- File diameter sizes: .030" (2x), .040" (2x), .050", .060", .070", .080", .090", .100", .110", .120"
- The smallest file (.030") can clean Deutsch connectors

REPLACEMENT ITEMS ARE NOT CURRENTLY AVAILABLE.

TRUCK AND TRAILER CONNECTOR CLEANER SET - 9 PIECES



Art. No. 695.6002

Allows for precise removal of corrosion from both male and female pins, while maintaining proper pin dimensions.

Features:

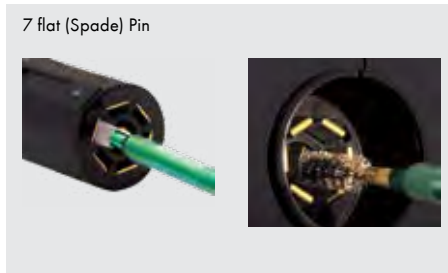
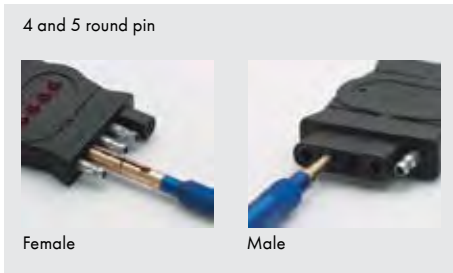
- Maintain continuity and prevent circuit failure
- Clean and re-size trailer pins
- Remove corrosion from connectors
- Extend harness life
- Use as a pin wear gauge

Includes:

- 4 and 5 round pin
- 6 round pin
- 7 flat (spade) pin
- 7 round pin
- Swab-Eez® 8 mm and 5 mm head

Applications:

- Bullet, butt and standard connectors
- AWG terminal connectors; auto, marine, and industrial uses



| | Description | Dimensions |
|---|--------------------|------------|
| A | 7 Round Pin | 5.5" |
| B | 7 Round Pin | 7.5" |
| C | 7 Flat Pin Male | 5.375" |
| D | 7 Flat Pin Female | 5.125" |
| E | 4/5 & 6 Round Pin | 5.125" |
| F | 6 Round Pin | 4.875" |
| G | 5mm Head Swab-Eez™ | 5mm x 6" |
| H | 8mm Head Swab-Eez™ | 8mm x 6" |
| I | 5mm Head Swab-Eez™ | 5mm x 3" |

REPLACEMENT PINS ARE NOT CURRENTLY AVAILABLE.

DIAMOND-COATED FLEXIBLE CONTACT CLEANING FILES (3PCS)



Art. No. 715.700

The three-piece **Diamond-Coated Flexible Flat Point & Electrical Contact Cleaners** feature highly durable, super hard, and abrasive diamond coating for cleaning and enhancing electrical connections to reduce diagnostic guesswork and increase contact life.

The set includes a small (6 mm), medium (9mm) and large (15mm) wide, but ultra-thin, flexible cleaner with ergonomic, non-slip handles. Optimized for cleaning large spade terminals including relays and forklift contacts, these flexible, diamond flat files are also great for use in general filing applications.

Features & Benefits:

- Three-piece set covers wide range of contact sizes
- Super hard, diamond coating is highly abrasive and durable
- Enhances connections and extends contact life
- Non-slip, ergonomic handles for comfortable use
- Ultra-thin, flexible files for added functionality

Areas of application:

- Large Spade Relays
- Forklift Contacts
- Industrial Electrical Contacts
- Spark plug electrodes
- General filing use on steel, brass, plastic and aluminum



REPLACEMENT ITEMS ARE NOT CURRENTLY AVAILABLE.

VEHICLE TEST LAMP



Art. No. 695.00224

- Voltage range 6-24
- Cable length: 750 mm
- Voltage testing
- Cable check

TEST CLIPS RED/BLACK PAIR



Art. No. 715.16971

- 10 Amp.
- 2-1/4" long

WEATHER PACK EXTRACTOR TOOL



Art. No. 557.14462

Designed for extracting weather pack terminals from their connector housing

RELEASING TOOLS



For circular plug contacts with locking lugs on contact

| | | For contacts | Contact ø in mm. | Art. No. | P. Qty. |
|--|--|---|------------------|------------|---------|
| | | Pins and sockets | 1.5 | 713.558110 | 1 |
| | | Pins and sockets (e.g. MATE-N-LOK) Replacement Sleeve: Art. No. 558.999810 | | 713.558130 | |
| | | Pins and sockets | 2.3 | 713.558140 | |

MICRO MALE PIN CLEANERS



Art. No. 695.7000

Würth Micro Male Electrical Pin Cleaners are specially engineered with a contoured design and diamond-coating to clean male electrical pins safely.

Features:

- Durable diamond coating
- Innovative contoured design
- For all types of male electrical pin applications
- The 3-piece set includes a leather-type holster and male electrical pin cleaners ranging in sizes from .030"-0.040", .060"-0.065", and .090"-0.098"

Benefits:

- Easy to clean pins that are recessed into deep welled plastic housings
- Will not damage pins
- Includes leather type holster
- For use on DC circuitry only

Areas of application:

For cars, trucks, construction, agriculture, industrial and marine equipment.

- Used for cleaning round pins like those found on Deutsch, Cannon and Amphenol Connectors.

REPLACEMENT ITEMS ARE NOT CURRENTLY AVAILABLE.



BATTERY TERMINALS

STRAIGHT TIN PLATED

Made from 100% Copper Alloy and tin plated to resist corrosion!

Features:

- Made of cast copper alloy, tin plated for added conductivity and corrosion resistance
- Permanent, indelible, readable gauge and polarity stamped on clamp
- Crimp markings for easily installation
- Fasteners included
- 25 times better than SAE conductivity standard J163 and J1811



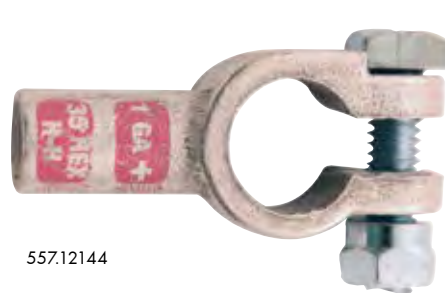
557.12128



557.12130



557.12143



557.12144



557.12173



557.12183



557.12184



557.12174



557.501310N



557.501310P



557.501340P

| Straight Battery Terminals | | | | |
|----------------------------|----------|--------|-------------|--------|
| Gauge | Polarity | Colour | Art. No. | P. Qty |
| 4 GA | Negative | Green | 557.12128 | 5 |
| 4 GA | Positive | Green | 557.12130 | |
| 1-2 | Negative | Pink | 557.12143 | |
| 1-2 | Positive | Pink | 557.12144 | |
| 2/0 | Negative | Orange | 557.12173 | 5 |
| 2/0 | Positive | Orange | 557.12174 | |
| 3/0 | Negative | Purple | 557.12183 | 5 |
| 3/0 | Positive | Purple | 557.12184 | |
| 1/0 | Negative | Black | 557.501310N | 5 |
| 1/0 | Positive | Black | 557.501310P | |
| 4/0 | Negative | Yellow | 557.501340N | |
| 4/0 | Positive | Yellow | 557.501340P | |



557.501340N

BATTERY TERMINALS

STRAIGHT LEAD PLATED



553.0838



553.0880

Application:

- Automotive or light truck applications
- Accepts 6 thru 2/0 gauge cable sizes
- Lead construction fasteners included

| Lead Battery Terminals | | | | |
|------------------------|----------|--------|----------|--------|
| Gauge | Polarity | Colour | Art. No. | P. Qty |
| 6-2 | n/a | n/a | 553.0838 | 10 |
| 6-2 | n/a | n/a | 553.0880 | |

RIGHT ELBOW TIN PLATED

Elbow connectors designed to reduce cable stress in confined spaces



557.12263



557.12264

Features:

- Made of cast copper alloy, tin plated for added conductivity and corrosion resistance
- Permanent, indelible, readable gauge and polarity stamped on clamp
- Fasteners included
- Crimp markings for easy installation

| Right Elbow Tin Plated Battery Terminals | | | | |
|--|----------|--------|-----------|--------|
| Gauge | Polarity | Colour | Art. No. | P. Qty |
| 1/0 | Negative | Black | 557.12263 | 5 |
| 1/0 | Positive | Black | 557.12264 | |
| 2/0 | Negative | Red | 557.12273 | |
| 2/0 | Positive | Red | 557.12274 | |
| 3/0 | Negative | Purple | 557.12283 | |
| 3/0 | Positive | Purple | 557.12284 | |



557.12273



557.12274



557.12283



557.12284

BATTERY TERMINALS

LEFT ELBOW TIN PLATED

Elbow connectors designed to reduce cable stress in confined spaces.



557.12363



557.12364



557.12373



557.12374



557.12384

Features:

- Made of cast copper alloy, tin plated for added conductivity and corrosion resistance
- Permanent, indelible, readable gauge and polarity stamped on clamp
- Fasteners included
- Crimp marking for easy installation

Left Elbow Tin Plated Battery Terminals

| Gauge | Polarity | Colour | Art. No. | P. Qty |
|-------|----------|--------|------------------|--------|
| 1/0 | Negative | Black | 557.12363 | 5 |
| 1/0 | Positive | Black | 557.12364 | |
| 2/0 | Negative | Red | 557.12373 | |
| 2/0 | Positive | Red | 557.12374 | |
| 3/0 | Positive | Purple | 557.12384 | |

BATTERY TERMINALS

UNIVERSAL POWER TERMINAL

Locking and anti-rotating power terminals to get the job done right!



557.13928



557.13958



557.13968



557.13978

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Elbows and bent lugs are designed to reduce cable stress in confined space
- Excellent for commercial and industrial applications
- Exceeds SAE conductivity standards J163 and J1811
- 3/8" hole



557.13988



557.13998

Universal Power Terminals

| Gauge | Colour | Art. No. | P. Qty |
|-------|--------|-----------|--------|
| 4 GA | Grey | 557.13928 | 5 |
| 1-2 | Pink | 557.13958 | |
| 1/0 | Black | 557.13968 | |
| 2/0 | Orange | 557.13978 | |
| 3/0 | Purple | 557.13988 | |
| 4/0 | Yellow | 557.13998 | |

BATTERY TERMINALS

BUTT SPlice TERMINALS

| Heavy Duty Butt Splice Terminals | | | |
|----------------------------------|--------|------------|--------|
| Gauge | Colour | Art. No. | P. Qty |
| 4/0 | Yellow | 557.501740 | 5 |
| 3/0 | Purple | 557.91870 | |
| 2/0 | Orange | 557.507120 | |
| 1/0 | Black | 557.501710 | |
| 1/2 | Pink | 557.50172 | |
| 4 GA | Green | 557.50174 | |
| Butt Splice Terminal | | | |
| 8 GA | - | 557.91800 | 5 |
| 6 GA | - | 557.91810 | |

Copper Butt Splice

Features:

- Seamless 100% copper tube construction
- Can be crimped or soldered
- Ideal for general wiring as well as starter or ground connections



557.501740



557.91870



557.50172



557.91810



557.507120



557.501710



557.50174



557.91800

TERMINAL ACID PROTECTOR



557.99017



557.99014



557.99015

Features:

- Battery washers seal out acid fumes protecting terminals from corrosion.
- Ideal for new batteries or clean up and repair of used batteries.
- The terminal washer is coated with a corrosive preventative that will not evaporate.

| Terminal Acid Protector | | | | |
|-------------------------|--------|----------|-----------|--------|
| Polarity | Colour | Position | Art. No. | P. Qty |
| Negative | Black | Top | 557.99014 | 25 |
| Positive | Red | Top | 557.99015 | |
| Negative | Black | Side | 557.99017 | |



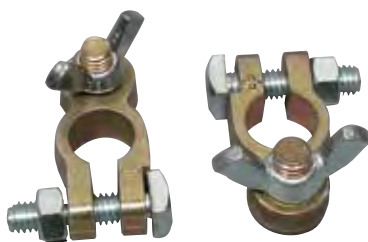
BATTERY ACCESSORIES

NUTS & BOLTS



| Description | Art. No. | P. Qty |
|---|------------------|--------|
| OEM type side mount terminal bolt 3/8-16x13/32 | 557.99001 | 10 |
| Side mount bolt with exterior screw for dual power lead - zinc 3/8-16x1 | 557.99002 | |
| Stainless steel stud nut - closed cap 3/8-16 | 557.99005 | |
| Universal stud to post converter (positive & negative) 3/8 | 557.99010 | |
| Adapter bolt - side term - for single power lead 3/8-16x3/8 | 557.99013 | 5 |
| Square head steel bolt & nut, zinc plated 5/16-18x1-1/4 | 557.99052 | 25 |
| Square head bolt & nut, tin plated 5/16-18x1-1/2" | 557.99057 | |
| Square head bolt with shoulder nut, zinc 5/16-x1-1/2" | 557.99513 | |

BATTERY CONNECTORS FOR MARINE APPLICATIONS



Art. No. 510.30 (Negative, 5/16")
Art. No. 510.31 (Positive, 3/8")

- Heavy duty brass connectors with Tin-plated steel fasteners (anti-corrosion treatment for metal)
- Converts battery post to stud connector
- Permits quick disconnection from battery
- Eliminates current drain during storage
- Meets U.S.C.G. (United States Coast Guard) regulations
- 5 pieces/bag

ASSORTMENTS



Art. No. 965.5571

Battery Terminal Power Splice Assortment
Contents (80 Pieces):
 16 types of battery terminal/power splices
 Size range: 1 GA to 4/0

DEUTSCH CONNECTORS



- Common contact system utilizes common tooling
- Stainless steel sleeves over contact fingers protects them from damage, increasing socket-terminal performance
- Properly crimped connections are air-tight
- Made from flame-retardant, high grade thermoplastics to reduce the risk of fire
- Operating temperature: -55 °C to +125 °C (-67 °F to +257 °F)
- Fail-safe connector assembly ensures the locking wedge can only be inserted if the contacts are fully inserted and the connectors can only be coupled if the wedges are fully inserted
- Withstand intense physical shock and vibration



NOTE: Use Universal Sealing Plug, Art. No. 887.114017, to blank unused connections
 Crimping tool for solid pins and sockets, Art. No. 887.AMSC12 - Size 12
 Art. No. 887.AMSC16 - Size 16
 Art. No. 887.AMSC20 - Size 20



Stamped Pin Socket Stamped Sealing Plug Solid Pin Solid Socket Universal

DT Series

- Accommodates wire sizes from 14 - 18 AWG
- Current rating: 13 amps
- Contacts withstand a load of 25 lbs for size 16
- Audible coupling feedback
- Environmentally sealed connections designed for cable to cable applications under the hood, on the chassis or in the cab
- Thermoplastic housings and silicone seals
- Contact insertion and withdrawal require no special tools
- Secondary locks

| Pins/Socket | Style | Size | Art. No. |
|-------------|---------|-------------|---------------|
| Pin | Stamped | 14 - 16 AWG | 887.106014012 |
| Socket | Stamped | 14 - 16 AWG | 887.106214012 |
| Pin | Solid | 16 - 18 AWG | 887.460202 |
| Socket | Solid | 16 - 18 AWG | 887.462201 |
| Pin | Solid | 14 - 16 AWG | 887.460215 |
| Socket | Solid | 14 - 16 AWG | 887.462209 |

| No. Pins | Art. No. | Art. No. | Art. No. | Art. No. |
|----------|--------------|--------------------|--------------|--------------------------|
| | Plug | Plug Locking Wedge | Receptacle | Receptacle Locking Wedge |
| 2 | 887.DT06-2S | 887.W2S | 887.DT04-2P | 887.W2P |
| 3 | 887.DT06-3S | 887.W3S | 887.DT04-3P | 887.W3P |
| 4 | 887.DT06-4S | 887.W4S | 887.DT04-4P | 887.W4P |
| 6 | 887.DT06-6S | 887.W6S | 887.DT04-6P | 887.W6P |
| 8 | 887.DT06-8S | 887.W8S | 887.DT04-8P | 887.W8P |
| 12 | 887.DT06-12S | 887.W12S | 887.DT04-12P | 887.W12P |

DEUTSCH CONNECTORS

| No. Pins | Art. No. | Art. No. | Art. No. | Art. No. |
|----------|---------------|--------------------|---------------|--------------------------|
| | Plug | Plug Locking Wedge | Receptacle | Receptacle Locking Wedge |
| 2 | 887.DTM06-2S | 887.WM-2S | 887.DTM04-2P | 887.WM-2P |
| 3 | 887.DTM06-3S | 887.WM-3S | 887.DTM04-3P | 887.WM-3P |
| 4 | 887.DTM06-4S | 887.WM-4S | 887.DTM04-4P | 887.WM-4P |
| 6 | 887.DTM06-6S | 887.WM-6S | 887.DTM04-6P | 887.WM-6P |
| 8 | 887.DTM06-8S | 887.WM-8S | 887.DTM04-8P | 887.WM-8P |
| 12 | 887.DTM06-12S | 887.WM-12S | 887.DTM04-12P | 887.WM-12P |

| Pins/Socket | Style | Size | Art. No. |
|-------------|---------|-------------|---------------|
| Pin | Stamped | 16 - 20 AWG | 887.106020012 |
| Socket | Stamped | 16 - 20 AWG | 887.106220012 |
| Pin | Solid | 20 - 24 AWG | 887.4602022 |
| Socket | Solid | 20 - 24 AWG | 887.4622011 |

| No. Pins | Art. No. | Art. No. | Art. No. | Art. No. |
|----------|--------------|--------------------|--------------|--------------------------|
| | Plug | Plug Locking Wedge | Receptacle | Receptacle Locking Wedge |
| 2 | 887.DTP06-2S | 887.WP2S | 887.DTP04-2P | 887.WP2P |
| 4 | 887.DTP06-4S | 887.WP4S | 887.DTP04-4P | 887.WP4P |

| Pins/Socket | Style | Size | Art. No. |
|-------------|---------|-------------|---------------|
| Pin | Solid | 10 - 14 AWG | 887.460204 |
| Socket | Solid | 10 - 14 AWG | 887.462203 |
| Pin | Stamped | 10 - 14 AWG | 887.106012016 |
| Socket | Stamped | 10 - 14 AWG | 887.106212106 |

DTM Series

- Accommodates 16 - 20 AWG wire
- 20 GA - 7.5 Amps continuous
- Contact retention up to 20 lbs
- Silicone seals at front and rear provide water tight sealing
- Good for compact spaces

DTP Series

- Accommodates wire sizes from 10 - 14 AWG
- 25 amps continuous at +125 °C (257 °F)
- Multi-pin power connector
- Environmentally sealed
- Two and four pin arrangements
- Corrosion resistance: 48 hours of salt spray per MIL-STD 1344, method 1001

Numbering System Explained (Plugs and Receptacles)

Example:

Art. No. 887.DTM06-2S

● Prefix ● Deutsch Connector series (06: Plug / 04: Receptacle) ● Number of contacts ● Contact Type (S: Socket Plug / ● P: Pin Receptacle)

ASSORTMENTS



Art. No. 965.8873

Deutsch Connectors for 10-14 AWG Power Series

Contents (358 Pieces):

Pins, sockets and plug assemblies for Deutsch DTP series



Art. No. 965.8871

Deutsch Connectors for 14-18 AWG DT Series

Contents (599 Pieces):

Pins, sockets, and plug assemblies for Deutsch DT series



Art. No. 965.8872

Deutsch Connectors for 16-20 AWG Mini Series

Contents (424 Pieces):

Pins, sockets and plug assemblies for Deutsch DTM series

DEUTSCH SOLID CONTACT CRIMPING TOOL



- Creates a four-indent crimp providing the most uniform displacement of wire and contact material
- Ratchet design ensures full crimp is completed
- For solid contacts

| Contact Size | Art. No. |
|--------------|-------------------|
| 12 AWG | 887.AMSC12 |
| 14 - 18 AWG | 887.AMSC16 |
| 20 - 22 AWG | 887.AMSC20 |

DEUTSCH TERMINAL REMOVAL TOOLS



For the removal of contact/wire assemblies from DT series plugs.

Application:

- With rear insert toward you, snap appropriate size extractor tool over the wire of contact to be removed.
- Slide tool along wire into the insert cavity until it engages contact and resistance is felt.
- Pull contact/wire assembly out of connector.

NOTE: Do not twist tool or insert at an angle.

| Colour | Wire Gauge | Art. No. | P. Qty |
|--------|------------|-------------------|--------|
| Red | 20 GA | 715.555330 | 5 |
| Blue | 16 GA | 715.555320 | |
| Yellow | 12 GA | 715.555310 | |

AMP SUPERSEAL 1.5 CONNECTORS



TE Superseal 1.5 Series.

Certification:

According to IEC 529 and DIN 40050 IP 67

Features:

Designed to meet the increasing requirements for reliability and waterproofness, Superseal connectors meet the sealing requirements outlined in IEC 529 and DIN 40050 IP 67 specifications. Primarily used in automotive, industrial and agricultural machinery.

- Compact system minimizes packaging requirements.
- Sealing reliability proven under harsh conditions.
- Designed for ease of manual harness assembly, engine mounting and under hood environments.

Applications:

- Wire to wire (1.5mm) and ECU applications, under hood or any location where sealing is required.
- Suitable for automotive, truck, bus or off-road vehicles.

Resistant to ozone, salts, gasoline, diesel fuel, brake fluid, anti-freeze/coolant, transmission gear lubricant, and motor oil.

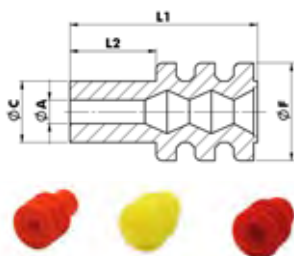
| Plug Housing | 0555.1021 | 0555.1022 | 0555.1023 | 0555.1024 | 0555.1025 | 0555.1026 |
|-----------------------|---|---|---|---|---|---|
| Socket Housing | 0555.1031 | 0555.1032 | 0555.1033 | 0555.1034 | 0555.1035 | 0555.1036 |
| Pack Size | 10 | 20 | 20 | 10 | 10 | 10 |
| # of poles | 1 | 2 | 3 | 4 | 5 | 6 |
| Wire gauge | 22GA - 14GA (0.35-2.5mm ²) | 22GA - 14GA (0.35-2.5mm ²) | 22GA - 14GA (0.35-2.5mm ²) | 22GA - 14GA (0.35-2.5mm ²) | 22GA - 14GA (0.35-2.5mm ²) | 22GA - 14GA (0.35-2.5mm ²) |
| IP Rating | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 |
| Max voltage | 24 V/DC | 24 V/DC | 24 V/DC | 24 V/DC | 24 V/DC | 24 V/DC |
| Max amperage | 14 A | 14 A | 14 A | 14 A | 14 A | 14 A |
| Operating temperature | -40 to +125 °C | -40 to +125 °C | -40 to +125 °C | -40 to +125 °C | -40 to +125 °C | -40 to +125 °C |
| Material | Polyamide PA 6/6 | Polyamide PA 6/6 | Polyamide PA 6/6 | Polyamide PA 6/6 | Polyamide PA 6/6 | Polyamide PA 6/6 |
| Colour | Black | Black | Black | Black | Black | Black |

AMP SUPERSEAL CONNECTORS – PINS & SEALS



| GA/ mm ² | Insul. dia. in mm | Seal dia. in mm | Plug in mm | Material | Surface | Art. No. | P. Qty. |
|-------------------------|-------------------|-----------------|------------|----------|-------------|------------|---------|
| 22 - 20 GA (0.35 - 0.5) | 1.2 - 1.6 | 3.40 | 1.5 | CuSn | Sn (tinned) | 0558.99580 | 100 |
| 18 - 16 GA (0.75 - 1.5) | 1.7 - 2.4 | | | | | 0558.99582 | |
| 16 - 14 GA (1.5 - 2.5) | 2.2 - 3.3 | | | | | 0558.99584 | |

| GA/ mm ² | Insul. dia. in mm | Seal dia. in mm | Plug in mm | Material | Surface | Art. No. | P. Qty. |
|-------------------------|-------------------|-----------------|------------|----------|-------------|------------|---------|
| 22 - 20 GA (0.35 - 0.5) | 1.2 - 1.6 | 3.40 | 1.5 | CuSn | Sn (tinned) | 0558.99579 | 100 |
| 18 - 16 GA (0.75 - 1.5) | 1.7 - 2.4 | | | | | 0558.99581 | |
| 16 - 14 GA (1.5 - 2.5) | 2.2 - 3.3 | | | | | 0558.99583 | |



| Drill dia. (mm) | Insul. dia. A (mm) | Dia. C (mm) | Dia. F (mm) | Length (mm) | Wire Gauge | Colour | Art. No. | P. Qty. |
|-----------------|--------------------|-------------|-------------|-------------|---|--------|-------------|---------|
| 5.15 | 1.2 - 2.1 | 3.40 | 5.56 | 7.50 | 22 - 17 GA (0.35 - 1.0 mm ²) | Orange | 0558.991406 | 100 |
| | 1.7 - 2.4 | | 6.10 | 7.80 | 18 - 16 GA (0.75 - 1.5 mm ²) | Yellow | 0558.99141 | |
| | 2.5 - 3.3 | | 6.1 | | 14 GA 2.5 mm ² | Red | 0558.99142 | |
| | | | | | Sealing Plug | | 0558.99145 | |

ASSORTMENT - AMP SUPERSEAL 1.5 CONNECTORS



Art. No. 5964.055501 - P. Qty. 1

440 pieces in a 4.4.1 System Case.

| CONTENTS | | |
|---|------------|---------|
| Description | Art. No. | P. Qty. |
| TE SUPERSEAL 1.5 SERIES PIN HOUSING 2 WIRE | 0555.1022 | 4 |
| TE SUPERSEAL 1.5 SERIES PIN HOUSING 3 WIRE | 0555.1023 | |
| TE SUPERSEAL 1.5 SERIES PIN HOUSING 4 WIRE | 0555.1024 | |
| TE SUPERSEAL 1.5 SERIES PIN HOUSING 5 WIRE | 0555.1025 | |
| TE SUPERSEAL 1.5 SERIES PIN HOUSING 6 WIRE | 0555.1026 | |
| TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 2 WIRE | 0555.1032 | |
| TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 3 WIRE | 0555.1033 | |
| TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 4 WIRE | 0555.1034 | |
| TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 5 WIRE | 0555.1035 | |
| TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 6 WIRE | 0555.1036 | |
| SUPERSEAL WIRE SEAL YEL (14-12GA) DIA 3.4MM | 0558.99141 | 100 |
| SUPERSEAL WIRE SEAL RED (10-8GA) DIA 3.4MM | 0558.99142 | |
| SUPERSEAL PIN 1.5X0.8MM 20-14GA | 0558.99581 | |
| SUPERSEAL SOCKET 1.5X0.8MM 20-14GA | 0558.99582 | |

AMP SEAL CRIMPING TOOL



Art. No. 0714.107130 - P. Qty. 1

Crimping plier with integrated locator.

Features & Benefits:

- Crimping pliers for TE Super Seal connectors.
- Integrated locator keeps pin in place while crimping.
- Dual crimp function crimps connector to wire and seal to wire simultaneously.



| TECHNICAL INFORMATION | |
|----------------------------|----------------------------------|
| Connector type | TE Super Seal |
| Min/Max wire cross section | 22-16 GA/0.35-1.5mm ² |
| Number of crimping points | 2 pieces |
| Locator | Yes |
| Length | 190mm |
| Material | Tool steel |
| Surface | Burnished |
| Handle grip material | Plastic |

RELEASE TOOLS



| For contacts | Blade width approx. (mm) | Contact dimensions (mm) | Art. No. | P. Qty. |
|-------------------------------|--------------------------|-------------------------|-------------|---------|
| Contacts with one locking lug | 1.48 | 1.5 | 0713.558241 | 1 |



| For contacts | Blade width approx. (mm) | Contact dimensions (mm) | Art. No. | P. Qty. |
|---------------------|--------------------------|-------------------------|-------------|---------|
| Secondary interlock | - | - | 0713.558610 | 1 |

ROSIN CORE SOLDER



60 Tin/40 Lead

- General purpose, automotive solder
- Solder thickness: 0.062" (1.57 mm)
- Solder can be easily dispensed through the red cap on the tube

| Quantity | Art. No. |
|----------|----------------|
| 0.50 oz. | 987.062 |
| 1 lb | 987.063 |

SOLDER GUN / HEAT TORCH

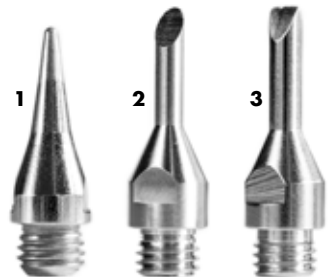


Art. No. 558.80

- Equivalent to a power range 30-125 watt
- Cordless, simple and safe to operate
- Ready to use 15 seconds after ignition
- Tank contains fuel for 200 minutes of operation

Additional Soldering Tips

| # | Art. No. | Description | P. Qty. |
|---|------------------|------------------|---------|
| 1 | 558.80121 | Standard Tip | 1 |
| 2 | 558.80122 | 3mm Diagonal Tip | |
| 3 | 558.80123 | 3.5mm Chisel Tip | |



SOLDER SLUGS - FOR BATTERY TERMINALS



| Gauge | Colour | Art. No. | P. Qty. |
|-------|--------|------------------|---------|
| 4 | Grey | 821.79501 | 10 |
| 2 | Green | 821.79502 | |
| 1 | Pink | 821.79503 | |
| 1/0 | Black | 821.79504 | |
| 2/0 | Orange | 821.79505 | |
| 3/0 | Purple | 821.79506 | |
| 4/0 | Yellow | 821.79507 | |

- Provides a high-quality termination without the need for expensive crimping tools
- Easily installed termination system
- Soldered connections provide maximum conductivity and superior tensile strength
- When used with an adhesive-lined heat shrink tubing, prevents cable corrosion
- Colour-coded pre-measured slugs conform to industry standards and ensure correct product identification
- Flux core prevents dirt and contaminants from hindering the soldering process. This is improved further through the use of a liquid flux.
- Installation only requires the use of standard shop tools: a propane torch and utility knife
- Works with any brand of closed-end battery terminals or starter lugs

Improperly installed connections leads to voltage drop, vibration damage and cable corrosion. Using solder slugs is easy, provides maximum conductivity and superior tensile strength. The use of an adhesive-lined heat shrink tubing prevents cable corrosion.



1. Strip the proper size cable so the exposed cable will reach the top of the battery terminal. The cable installation should fit snugly against the top. Insert proper size solder slug and apply solder flux.

2. Secure the battery terminal in a vise. Slide the proper size heat shrink tubing over the cable. Insert the exposed cable into the terminal. Heat the base of the battery terminal while applying gentle downward pressure on the cable.

3. As the solder melts, allow the cable to slide into the terminal until the installation is snug against the top of the terminal. Remove from heat. Slide the heat shrink tubing over the connection. Apply indirect heat to the tubing.

4. Allow connection to cool. You now have the most ideal connection.

NOTE: Solder used contains any or all of the following: antimony, cadmium, copper, indium, silver, iron, aluminum, nickel, arsenic, zinc, bismuth, gold, tin, lead. Meets specification J-STD-006.

Cutting Knife
Art. No. 715.6606
 Dual Wall Heat Shrink Tubing Prefix 775, 776

INDUSTRIAL BATTERIES



- Will not leak, short circuit, or pole-connect.
- Long shelf life.
- Cannot be recharged.
- Please recycle where possible.

| Description | Voltage | Art. No. |
|--------------|---------|---------------|
| AAAA Battery | 1.5 | 827.00 |
| AAA Battery | | 827.01 |
| AA Battery | | 827.02 |
| C Battery | | 827.03 |
| D Battery | | 827.04 |
| 9 V Battery | 9.0 | 827.05 |

LITHIUM BATTERIES



| Designation | Art. No. | Qty. |
|-------------|------------------|------|
| AA, 1.5 V | 827.00002 | 2 |

Advantages of Lithium Batteries

The lithium battery provides excellent advantages, especially in the operation of: camera flashes, digital cameras, remote-control cars, wireless devices, medical consumers and consumers that often require peak currents of much more than 1 A and for which these currents must also be immediately available over a long standby time. With a modern digital camera, lithium batteries can be used for well over 200 pictures with flash. In comparison, alkaline batteries manage only about 50-60 pictures.

- Currently the longest-lasting batteries in the world! Can be used for almost any device requiring a long operational availability or high current drain (high-current applications).
- Ready for operation from -20 °C to +60 °C at full performance
- Outstanding resistance to leakage
- 30 % lighter than conventional alkaline batteries
- Minimal self-discharge (very long shelf life: over 10 years)
- Not rechargeable!

- Greater energy density = longer service life
 - Very high current output
 - Very long storage life thanks to minimal self-discharge
 - Very wide temperature range for storage and operation
- With low-current consumers, e.g. wall clocks, alarm clocks, flashlights, etc., there is no notable advantage over alkaline batteries. For this reason, they do not need to be used with these products.

6 VOLT BLOCK BATTERY

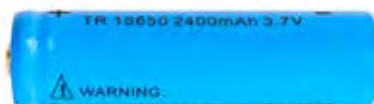


Features:

- Perfect for Rental Companies
- Mercury Free

| Description | Output | Voltage | Art. No. | P. Qty |
|---------------|--------|---------|-------------------|--------|
| Block Battery | 7 Ah | 6 | 827.000001 | 1 |

LITHIUM BATTERY 3.7V #18650



| Description | Voltage | Art. No. | P. Qty. |
|----------------------------|---------|-------------------|---------|
| Lithium Ion Battery #18650 | 3.7V | 827.805600 | 1 |

Lithium Battery 3.7V Ultrafire 3.7V 2400mAh Li-ion. For use in the windshield UV lamp and Kit (Art. No. 891.634425)

Features:

- 3.7 V 2400mAh
- Full voltage - 4.2 V
- Cut-off discharge - 2.75 V

Benefits:

- One charge gives up to 4 hours with a constant discharge rate

BLOCK BATTERY 12V



Features:

- Top mount battery posts
- 12V 12Amp-hour
- Battery supplied dry with acid bottle
- Advanced lead-calcium technology

Benefits:

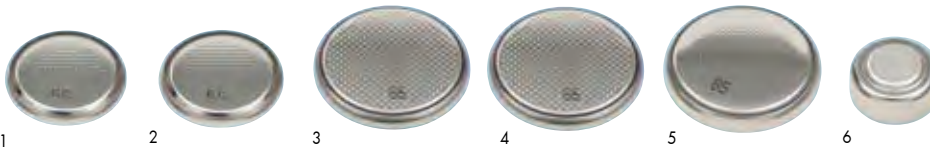
- Maintenance-free and spill-proof
- 200 plus cold cranking amps

- No need to add water but periodic charging required when not in use
- Multiple use battery for Trailer Testers, ATV and most motorcycles

***Note:** Recycle and dispose according to local authority regulations. Always refer to equipment manual before installing battery.

| Art. No. | Dimensions (mm) | Voltage | Weight | P. Qty. |
|------------|-----------------|------------|----------|---------|
| 827.000003 | 150 x 87 x 145 | 12V 12AH | 9.5 lbs. | 1 |

BUTTON CELL BATTERIES



- Only minor auto discharging
- Can be used in a large temperature range
- High system voltage
- Long shelf life

| IEC Des. | Other designation | Voltage in V | System | Dia. x H in mm | Fig. | Art. No. | P.Qty |
|-------------|----------------------------|--------------|--------------|----------------|------|-------------|-------|
| CR 1220 | DL 1220 | 3 | Lithium | 12.5 x 2 | 1 | 827.0851220 | 10 |
| CR 1616 | DL 1616 | 3 | Lithium | 16.0 x 2 | 1 | 827.0851616 | |
| CR 1620 | DL 1620 | 3 | Lithium | 16.0 x 2 | 1 | 827.0851620 | |
| CR 1632 | DL 1632 | 3 | Lithium | 16.0 x 3.2 | 2 | 827.0851632 | |
| CR 2016 | DL 2016 | 3 | Lithium | 20.0 x 1.6 | 3 | 827.0852016 | |
| CR 2025 | DL 2025 | 3 | Lithium | 20.0 x 2.5 | 4 | 827.0852025 | |
| CR 2032 | DL 2032 | 3 | Lithium | 20.0 x 3.2 | 5 | 827.0852032 | |
| CR 2450 | DL 2450 | 3 | Lithium | 24.5 x 5 | 5 | 827.0852450 | |
| SR44/ LR 44 | V13 GS (V13 GA); V357; A76 | 1.5 | Silver oxide | 11.6 x 5.4 | 6 | 827.08513 | |

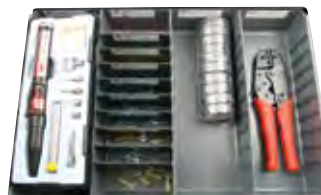
| Other Possible Applications | | |
|-----------------------------|--|---|
| Fitness | Pedometer, calorimeter, stopwatches, heart rate monitors | 827.0852016, 827.0852032, 827.08513 |
| | Personal scales | 827.0852032 |
| Health | Digital thermometers | 827.08513, 827.0851616 |
| | Blood sugar meters | 827.0851620, 827.0852016, 827.0852025, 827.0852032 |
| Toys | Toys and games | 827.0852016, 827.0852025, 827.0852032, 827.08513 |
| Electronic Devices | Remote controls | 827.0852025, 827.0852032 |
| | Pocket calculators/PDAs | 827.0851620, 827.08513, 827.0851616 |
| | Organizers | 827.0852016, 827.0852025, 827.0852032 |
| | Electronic levels | 827.08513 |
| Motor vehicle accessories | Garage door openers | 827.0852032, 827.0851616 |
| | Car alarm systems | 827.08513, 827.0852450 |
| Watches | | 827.0851620, 827.0852016, 827.0852025, 827.0852032, 827.08513 |
| Misc. | Pet collars | 827.0852032, 827.08513 |
| | Laser pointers | 827.08513 |
| | LED lamps | 827.0852016, 827.0852032, 827.0851616 |

ASSORTMENTS



Art. No. 964.827

Battery Assortment
Contents (52 Pieces):
 5 types of batteries (AAA, AA, C, D, 9V)



Art. No. 965.558

Electrical Essentials Service Kit
Contents (97 Pieces):
 Black electrical tape; Soldering gun/heat torch; Ratchet-style crimp tool;

04 CUTTING

- 5 Drill Bits**
- 14 Spot Weld Drill Bits**
- 16 Drill Indexes & Assortments**
- 17 Step Drills & Reamers**
- 20 End Mills**
- 21 Hole Saws & Mounting Hubs**
- 23 Extractor Sets**
- 25 Honing Stones & Carbide Burrs**
- 27 Taps**
- 31 Countersink Bits**
- 32 TIME-SERT® Thread Repair**
- 37 Saw Blades & Accessories**
- 47 Starlock Oscillating Blades**
- 51 Diamond Cutting Discs**
- 56 Diamond Cup Wheels**
- 58 Cutting Knives & Blades**



TAP AND DRILL CHART - CONVERSION TABLES

Metric and Imperial

| UNC Unified National Coarse | | |
|-----------------------------|-----------------|------------------------|
| Size (inch) | Thread per inch | Recommended drill size |
| 1 | 64 | 53 |
| 2 | 56 | 50 |
| 3 | 48 | 47 |
| 4 | 40 | 3/32 |
| 5 | 40 | 38 |
| 6 | 32 | 36 |
| 8 | 32 | 29 |
| 10 | 24 | 25 |
| 12 | 24 | 16 |
| 1/4 | 20 | 13/64 |
| 5/16 | 18 | 17/64 |
| 3/8 | 16 | 5/16 |
| 7/16 | 14 | 3/8 |
| 1/2 | 13 | 27/64 |
| 9/16 | 12 | 31/64 |
| 5/8 | 11 | 35/64 |
| 3/4 | 10 | 21/32 |
| 7/8 | 9 | 49/64 |
| 1 | 8 | 7/8 |
| 1-1/8 | 7 | 63/64 |
| 1-1/4 | 7 | 1-7/64 |
| 1-3/8 | 6 | 1-7/32 |
| 1-1/2 | 6 | 1-11/32 |
| 1-3/4 | 5 | 1-9/16 |
| 2 | 4 1/2 | 1-25/32 |

| Metric Iso Coarse | | |
|-------------------|--------------|------------------------|
| Size (mm) | Thread pitch | Recommended drill size |
| 1.6 | 0.35 | 3/64 |
| 1.7 | 0.35 | 55 |
| 1.8 | 0 | 54 |
| 2 | 0.40 | 1/10 |
| 2.5 | 0.45 | 40 |
| 3 | 0.5 | 40 |
| 3.5 | 0.60 | 33 |
| 4 | 0.70 | 30 |
| 4.5 | 0.75 | 27 |
| 5 | 0.80 | 11/64 |
| 6 | 1.0 | 13/64 |
| 7 | 1.0 | 6.0 |
| 8 | 1.25 | H |
| 9 | 1.25 | 5/16 |
| 10 | 1.5 | 11/32 |
| 11 | 1.5 | 3/8 |
| 12 | 1.75 | 13/32 |
| 14 | 2.0 | 31/64 |
| 16 | 2.0 | 9/16 |
| 18 | 2.5 | 39/64 |
| 20 | 2.5 | 45/64 |
| 22 | 2.5 | 25/32 |
| 24 | 3.0 | 53/64 |
| 27 | 3.0 | 61/64 |
| 30 | 3.5 | 1-3/64 |
| 33 | 3.5 | 1-11/64 |
| 36 | 4.0 | 1-1/4 |
| 39 | 4.0 | 1-3/8 |

| UNC Unified National Coarse | | |
|-----------------------------|-----------------|------------------------|
| Size (inch) | Thread per inch | Recommended drill size |
| 0 | 80 | 3/64 |
| 1 | 72 | 53 |
| 2 | 64 | 50 |
| 3 | 56 | 45 |
| 4 | 48 | 42 |
| 5 | 44 | 37 |
| 6 | 40 | 33 |
| 8 | 36 | 9/64 |
| 10 | 32 | 21 |
| 12 | 26 | 14 |
| 1/4 | 28 | 7/32 |
| 5/16 | 24 | 17/64 |
| 3/8 | 24 | Q |
| 7/16 | 20 | 25/64 |
| 1/2 | 20 | 20/64 |
| 9/16 | 18 | 33/64 |
| 5/8 | 18 | 37/64 |
| 3/4 | 16 | 11/16 |
| 7/8 | 14 | 13/16 |
| 1 | 12 | 59/64 |
| 1 | 14* | 15/16 |
| 1-1/8 | 12 | 1-3/64 |
| 1-1/4 | 12 | 1-11/64 |
| 1-3/8 | 12 | 1-19-64 |
| 1-1/2 | 12 | 1-27/64 |

| Metric Iso Coarse | | |
|-------------------|--------------|------------------------|
| Size (mm) | Thread pitch | Recommended drill size |
| 4 | 0.35 | 3/64 |
| 5 | 0.35 | 55 |
| 6 | 0 | 54 |
| 7 | 0.40 | 1/10 |
| 8 | 0.45 | 40 |
| 10 | 0.5 | 40 |
| 10 | 0.60 | 33 |
| 12 | 0.70 | 30 |
| 12 | 0.75 | 27 |
| 12 | 0.80 | 11/64 |
| 14 | 1.0 | 13/64 |
| 16 | 1.0 | 6.0 |
| 18 | 1.25 | H |
| 18 | 1.25 | 5/16 |
| 20 | 1.5 | 11/32 |
| 20 | 1.5 | 3/8 |
| 22 | 1.75 | 13/32 |
| 22 | 2.0 | 31/64 |
| 24 | 2.0 | 9/16 |
| 24 | 2.5 | 39/64 |

CONVERSION TABLE

Inch to Millimetre Equivalents

To convert to millimetres, multiply inches by 25.4

| INCHES | | mm |
|--------|----------|--------|
| Fract. | Decimals | |
| | .00004 | .001 |
| | .00039 | .01 |
| | .00079 | .02 |
| | .001 | .025 |
| | .00118 | .03 |
| | .00157 | .04 |
| | .00197 | .05 |
| | .002 | .051 |
| | .00236 | .06 |
| | .00276 | .07 |
| | .003 | .0762 |
| | .00315 | .08 |
| | .00354 | .09 |
| | .00394 | .1 |
| | .004 | .1016 |
| | .005 | .1270 |
| | .006 | .1524 |
| | .007 | .1778 |
| | .00787 | .2 |
| | .008 | .2032 |
| | .009 | .2286 |
| | .00984 | .25 |
| | .01 | .254 |
| | .01181 | .3 |
| 1/64 | .01563 | .3969 |
| | .01575 | .4 |
| | .01969 | .5 |
| | .02 | .508 |
| | .02362 | .6 |
| | .025 | .635 |
| | .02756 | .7 |
| | .0295 | .75 |
| | .03 | .762 |
| 1/32 | .03125 | .7938 |
| | .0315 | .8 |
| | .03543 | .9 |
| | .03937 | 1.0 |
| | .04 | 1.016 |
| 3/64 | .04687 | 1.191 |
| | .04724 | 1.2 |
| | .05 | 1.27 |
| | .05512 | 1.4 |
| | .05906 | 1.5 |
| | .06 | 1.524 |
| 1/16 | .06250 | 1.5875 |
| | .06299 | 1.6 |
| | .06693 | 1.7 |
| | .07 | 1.778 |
| | .07087 | 1.8 |
| | .075 | 1.905 |
| 5/64 | .07813 | 1.9844 |
| | .07874 | 2 |
| | .08 | 2.032 |
| | .08661 | 2.2 |
| | .09 | 2.286 |
| | .09055 | 2.3 |
| 3/32 | .09375 | 2.3812 |
| | .09843 | 2.5 |
| | .1 | 2.54 |
| | .10236 | 2.6 |
| 7/64 | .10937 | 2.7781 |
| | .11811 | 3 |
| 1/8 | .1250 | 3.175 |

| INCHES | | mm |
|--------|----------|---------|
| Fract. | Decimals | |
| | .13780 | 3.5 |
| 9/64 | .14063 | 3.5719 |
| | .150 | 3.810 |
| 5/32 | .15625 | 3.9688 |
| | .15748 | 4 |
| 11/64 | .17188 | 4.3656 |
| | .1750 | 4.445 |
| | .17717 | 4.5 |
| 3/16 | .18750 | 4.7625 |
| | .19685 | 5 |
| | .20 | 5.08 |
| 13/64 | .2013 | 5.1594 |
| | .21654 | 5.5 |
| 7/32 | .21875 | 5.5562 |
| | .2250 | 5.715 |
| 15/64 | .23438 | 5.9531 |
| | .23622 | 6 |
| 1/4 | .250 | 6.35 |
| | .25591 | 6.5 |
| 17/64 | .26563 | 6.7469 |
| | .275 | 6.985 |
| | .27559 | 7 |
| 9/32 | .28125 | 7.1438 |
| | .29528 | 7.5 |
| 19/64 | .29688 | 7.5406 |
| | .30 | 7.62 |
| 5/16 | .3125 | 7.9375 |
| | .31496 | 8 |
| 21/64 | .32813 | 8.3344 |
| | .33465 | 8.5 |
| 11/32 | .34375 | 8.7312 |
| | .350 | 8.89 |
| | .35433 | 9 |
| 23/64 | .35938 | 9.1281 |
| | .37402 | 9.5 |
| 3/8 | .375 | 9.525 |
| 25/64 | .39063 | 9.9219 |
| | .39370 | 10 |
| | .400 | 10.16 |
| 13/32 | .40625 | 10.3188 |
| | .41359 | 10.5 |
| 27/64 | .42188 | 10.7156 |
| | .43307 | 11 |
| 7/16 | .43750 | 11.1125 |
| | .450 | 11.430 |
| | .45276 | 11.5 |
| 29/64 | .45313 | 11.5094 |
| 15/32 | .46875 | 11.9062 |
| | .47244 | 12 |
| 31/64 | .48438 | 12.3031 |
| | .49213 | 12.5 |
| 1/2 | .50 | 12.7 |
| | .51181 | 13 |
| 33/64 | .51563 | 13.0969 |
| 17/32 | .53125 | 13.4938 |
| | .53150 | 13.5 |
| 35/64 | .54688 | 13.8906 |
| | .550 | 13.970 |
| | .55118 | 14 |
| 9/16 | .56250 | 14.2875 |
| | .5708 | 14.5 |
| | .57813 | 14.6844 |
| | .59055 | 15 |

To convert to inches, divide millimetres by 25.4

| INCHES | | mm |
|--------|----------|---------|
| Fract. | Decimals | |
| 19/32 | .59375 | 15.0812 |
| | .600 | 15.24 |
| 39/64 | .60938 | 15.4781 |
| | .61024 | 15.5 |
| 5/8 | .6250 | 15.875 |
| | .62992 | 16 |
| 41/64 | .64063 | 16.2719 |
| | .64961 | 16.5 |
| | .650 | 16.51 |
| 21/32 | .65625 | 16.6688 |
| | .66929 | 17 |
| 43/64 | .67188 | 17.0656 |
| 11/16 | .68750 | 17.4625 |
| | .68898 | 17.5 |
| | .700 | 17.78 |
| 45/64 | .70313 | 17.8594 |
| | .70866 | 18 |
| 23/32 | .71875 | 18.2562 |
| | .72835 | 18.5 |
| 47/64 | .73438 | 18.6531 |
| | .74803 | 19 |
| 3/4 | .750 | 19.050 |
| 49/64 | .76563 | 19.4469 |
| | .76772 | 19.5 |
| 25/32 | .78125 | 19.8438 |
| | .78740 | 20 |
| 51/64 | .79688 | 20.2406 |
| | .800 | 20.320 |
| | .80709 | 20.5 |
| 13/16 | .81250 | 20.6375 |
| | .82677 | 21 |
| 53/64 | .82813 | 21.0344 |
| 27/32 | .84375 | 21.4312 |
| | .84646 | 21.5 |
| | .850 | 21.590 |
| 55/64 | .85938 | 21.8281 |
| | .86614 | 22 |
| 7/8 | .875 | 22.225 |
| | .88583 | 22.5 |
| 57/64 | .89063 | 22.6219 |
| | .900 | 22.860 |
| | .90551 | 23 |
| 29/32 | .90625 | 23.0188 |
| 59/64 | .92188 | 23.4156 |
| | .92520 | 23.5 |
| 15/16 | .93750 | 23.8125 |
| | .94488 | 24 |
| | .950 | 24.130 |
| 61/64 | .95313 | 24.2094 |
| | .96457 | 24.5 |
| 31/32 | .96875 | 24.6062 |
| | .98425 | 25 |
| 63/64 | .98438 | 25.0031 |
| 1 | 1.00000 | 25.4 |
| | 1.06299 | 27 |
| | 1.10240 | 28 |
| | 1.18110 | 30 |
| 1-1/4 | 1.250 | 31.75 |
| | 1.29921 | 33 |
| | 1.3780 | 35 |
| | 1.41732 | 36 |
| 1-1/2 | 1.500 | 38.1 |
| | 1.53543 | 39 |

| INCHES | | mm |
|--------|----------|----------|
| Fract. | Decimals | |
| | 1.57480 | 40 |
| | 1.65354 | 42 |
| 1-3/4 | 1.750 | 44.45 |
| | 1.7170 | 45 |
| | 1.88976 | 48 |
| | 1.96850 | 50 |
| 2 | 2.000 | 50.8 |
| | 2.04724 | 52 |
| | 2.16540 | 55 |
| | 2.20472 | 56 |
| | 2.250 | 57.15 |
| | 2.36220 | 60 |
| 2-1/2 | 2.500 | 63.5 |
| | 2.51968 | 64 |
| 2-3/4 | 2.750 | 69.85 |
| | 2.83464 | 72 |
| | 2.95280 | 75 |
| 3 | 3.000 | 76.2 |
| | 3.14960 | 80 |
| 3-1/2 | 3.500 | 88.9 |
| | 3.54330 | 90 |
| | 3.9370 | 100 |
| 4 | 4.000 | 101.6 |
| | 4.33070 | 110 |
| 4-1/2 | 4.500 | 114.3 |
| | 4.72440 | 120 |
| 5 | 5.000 | 127 |
| | 5.51180 | 140 |
| | 5.90550 | 150 |
| 6 | 6.000 | 152.4 |
| | 6.29920 | 160 |
| | 7.08660 | 180 |
| | 7.8740 | 200 |
| 8 | 8.000 | 203.2 |
| | 8.66140 | 220 |
| | 9.44880 | 240 |
| | 9.84250 | 250 |
| 10 | 10.000 | 254 |
| | 10.23620 | 260 |
| | 11.02360 | 280 |
| | 11.8110 | 300 |
| 1 Foot | 12.000 | 304.8 |
| | 12.59840 | 320 |
| | 13.38580 | 340 |
| | 13.77950 | 350 |
| | 14.17320 | 360 |
| | 14.96060 | 380 |
| | 15.7480 | 400 |
| 16 | 16.000 | 406.4 |
| | 17.71650 | 450 |
| | 19.6850 | 500 |
| 20 | 20.000 | 508 |
| | 23.6220 | 60 |
| 2 Feet | 24.000 | 609.6 |
| 3 Feet | 36.000 | 914.4 |
| | 39.370 | 1 meter |
| 4 Feet | 48.000 | 1,219 |
| 5 Feet | 60.000 | 1,524 |
| 6 Feet | 72.000 | 1,828 |
| | 78.740 | 2 meters |
| 8 Feet | 96.000 | 2,438 |
| | 118.100 | 3 meters |
| | 196.850 | 5 meters |

CONVERSIONS EQUIVALENTS

| Fraction/Decimal/Metric/Equivalents | | |
|-------------------------------------|---------|--------|
| Fraction | Decimal | Metric |
| 1/64 | 0.0156 | 0.40 |
| 1/32 | 0.0312 | 0.79 |
| 3/64 | 0.0468 | 1.19 |
| 1/16 | 0.0625 | 1.59 |
| 5/64 | 0.0781 | 1.98 |
| 3/32 | 0.0937 | 2.38 |
| 7/64 | 0.1093 | 2.78 |
| 1/8 | 0.1250 | 3.18 |
| 9/64 | 0.1406 | 3.57 |
| 5/32 | 0.1562 | 3.97 |
| 11/64 | 0.1718 | 4.36 |
| 3/16 | 0.1875 | 4.76 |
| 13/64 | 0.2031 | 5.16 |
| 7/32 | 0.2187 | 5.55 |
| 15/64 | 0.2343 | 5.95 |
| 1/4 | 0.2500 | 6.35 |
| 9/32 | 0.2656 | 6.75 |
| 19/64 | 0.2812 | 7.14 |
| 5/16 | 0.2968 | 7.54 |
| 21/64 | 0.3125 | 7.94 |
| 11/32 | 0.3281 | 8.33 |
| 23/64 | 0.3437 | 8.73 |
| 3/8 | 0.3593 | 9.13 |
| 25/64 | 0.3750 | 9.53 |
| 13/32 | 0.3906 | 9.92 |
| 27/64 | 0.4062 | 10.32 |
| 7/16 | 0.4218 | 10.71 |
| 29/64 | 0.4375 | 11.11 |
| 15/32 | 0.4531 | 11.51 |
| 31/64 | 0.4687 | 11.90 |
| 1/2 | 0.4843 | 12.30 |
| 33/64 | 0.5156 | 13.10 |

| Fraction/Decimal/Metric/Equivalents | | |
|-------------------------------------|---------|--------|
| Fraction | Decimal | Metric |
| 17/32 | 0.5312 | 13.49 |
| 35/64 | 0.5468 | 13.89 |
| 9/16 | 0.5625 | 14.29 |
| 37/64 | 0.5781 | 14.68 |
| 19/32 | 0.5937 | 15.08 |
| 39/64 | 0.6093 | 15.48 |
| 5/8 | 0.6250 | 15.88 |
| 41/64 | 0.6406 | 16.27 |
| 21/32 | 0.6562 | 16.67 |
| 43/64 | 0.6718 | 17.06 |
| 11/16 | 0.6875 | 17.46 |
| 45/64 | 0.7031 | 17.86 |
| 23/32 | 0.7187 | 18.25 |
| 47/64 | 0.7343 | 18.65 |
| 3/4 | 0.7500 | 19.05 |
| 49/64 | 0.7656 | 19.45 |
| 25/32 | 0.7812 | 19.84 |
| 51/64 | 0.7968 | 20.24 |
| 13/16 | 0.8125 | 20.64 |
| 53/64 | 0.8281 | 21.03 |
| 27/32 | 0.8437 | 21.43 |
| 55/64 | 0.8593 | 21.83 |
| 7/8 | 0.8750 | 22.23 |
| 57/64 | 0.8906 | 22.62 |
| 29/32 | 0.9062 | 23.02 |
| 5/64 | 0.9218 | 23.41 |
| 15/16 | 0.9375 | 23.81 |
| 61/64 | 0.9531 | 24.21 |
| 31/32 | 0.9687 | 24.60 |
| 63/64 | 0.9843 | 25.00 |
| 1 | 1.0000 | 25.40 |

INCH to METRIC

1 inch = 25.400 millimetres
 1 foot = 0.3048 metres
 1 mile = 1.609 kilometers

SQ INCH to METRIC

1 sq. inch = 6.4516 sq. centimetres
 1 sq. foot = .0929 sq. metres

CU. INCH to METRIC

1 cu. inch = 16.387 cu. centimetres

IMPERIAL to METRIC

1 fluid ounce = 28.413 millilitres
 1 gallon = 4.546 litres

IMPERIAL to METRIC

1 ounce = 28.35 grams
 1 pound = .4536 kilograms

POUNDS/INCHES to METRIC

1 pound per square inch = .0703 kilogram per square centimetre
 1 pound per square inch = .0703 atmosphere (metric)

FAHRENHEIT to CELSIUS

(°F minus 32°) x .556 = °Celsius

REVERSIBLE - LEFT HAND DRILL BITS



| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. |
|--------|--------------------|--------------|----------------|------------|
| 1/16" | .0625 | 7/8 | 1-7/8 | 624.11104* |
| 5/64" | .0781 | 1 | 2 | 624.11105 |
| 3/32 | .0938 | 1-1/4 | 2-1/4 | 624.11106 |
| 7/64" | .1094 | 1-1/2 | 2-5/8 | 624.11107 |
| 1/8" | .1250 | 1-5/8 | 2-3/4 | 624.11108 |
| 9/64" | .1406 | 1-3/4 | 2-7/8 | 624.11109* |
| 5/32" | .1562 | 2 | 3-1/8 | 624.11110 |
| 11/64" | .1719 | 2-1/8 | 3-1/4 | 624.11111* |
| 3/16" | .1875 | 2-5/16 | 3-1/2 | 624.11112 |
| 7/32" | .2188 | 2-1/2 | 3-3/4 | 624.11114 |
| 15/64" | .2344 | 2-5/8 | 3-7/8 | 624.11115* |
| 1/4" | .2500 | 2-3/4 | 4 | 624.11116 |
| 9/32" | .2812 | 2-15/16 | 4-1/4 | 624.11118 |
| 19/64" | .2969 | 3-1/16 | 4-3/8 | 624.11119* |
| 5/16" | .3125 | 3-3/16 | 4-1/2 | 624.11120 |
| 21/64" | .3281 | 3-5/16 | 4-5/8 | 624.11121* |
| 11/32" | .3438 | 3-7/16 | 4-3/4 | 624.11122* |
| 3/8" | .3750 | 3-5/8 | 5 | 624.11124 |
| 13/32" | .4062 | 3-7/8 | 5-1/4 | 624.11126* |
| 7/16" | .4375 | 4-1/16 | 5-1/2 | 624.11128* |
| 15/32" | .4688 | 4-5/16 | 5-3/4 | 624.11130* |
| 1/2" | .5000 | 4-1/2 | 6 | 624.11132* |

* Available OnDemand

Premium-grade industrial steel

P. Qty. 1

Designed for light to intermediate duty applications

Application:

- If you use a left-hand bit to drill the hole in a broken screw or bolt so you can extract it, the odds are good that the very act of drilling will remove the broken screw without ever needing to use an extractor. Your drill must be running in reverse when you use left-hand bits.
- Left handed drills allow a machining operation to continue when the spindle either cannot be reversed or where the design of the machine makes it more efficient to run left handed
- They may also be used as an aid in the removal of right-hand screws

Assortment

Left-hand Drill Bits - 29 pcs.
Art. No. 624.11100



THUNDERBIT® STUBBY DRILLS



| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. |
|-------|--------------------|--------------|----------------|------------|
| 1/8 | .1250 | 7/8 | 1-7/8 | 627.418 |
| 3/16 | .1875 | 1-1/8 | 2-3/16 | 627.4316 |
| 1/4 | .2500 | 1-3/8 | 2-1/2 | 627.414 |
| 17/64 | .2656 | 1-7/16 | 2-5/8 | 627.41764* |
| 9/32 | .2812 | 1-1/2 | 2-11/16 | 627.4932* |
| 5/16 | .3125 | 1-5/8 | 2-13/16 | 627.4516 |
| 3/8 | .3750 | 1-13/16 | 3-1/8 | 627.438 |

* Available by OnDemand

135° Split-Point, High Speed Steel, Black & Bronze Oxide

- 135° split-point for quick penetration and reduced "walking"
- Premium-grade M-7 industrial steel for longer life and heat resistance
- Unique flute design for superior material removal
- Short length and heavy-duty construction provides additional strength
- Ideal for use in medium- and high-tensile strength alloy materials

P. Qty. 3

Application areas:

Cast Iron; Low and Medium Carbon Steel; High Alloy Steel; Stainless Steel and PH; Tough-, Medium- and High-Tensile Strength Alloys; Wood

NUMBERED DRILL BITS



| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. |
|------|--------------------|--------------|----------------|-----------------|
| 45 | .0820 | 1-1/8 | 2-1/8 | 627.045* |
| 44 | .0860 | 1-1/8 | 2-1/8 | 627.044* |
| 43 | .0890 | 1-1/4 | 2-1/4 | 627.043 |
| 42 | .0935 | 1-1/4 | 2-1/4 | 627.042* |
| 41 | .0960 | 1-3/8 | 2-3/8 | 627.041* |
| 40 | .0980 | 1-3/8 | 2-3/8 | 627.040 |
| 39 | .0995 | 1-3/8 | 2-3/8 | 627.039* |
| 38 | .1015 | 1-7/16 | 2-1/2 | 627.038* |
| 37 | .1040 | 1-7/16 | 2-1/2 | 627.037 |
| 36 | .1065 | 1-7/16 | 2-1/2 | 627.036 |
| 35 | .1100 | 1-1/2 | 2-5/8 | 627.035* |
| 34 | .1110 | 1-1/2 | 2-5/8 | 627.034* |
| 33 | .1130 | 1-1/2 | 2-5/8 | 627.033* |
| 32 | .1160 | 1-5/8 | 2-3/4 | 627.032 |
| 31 | .1200 | 1-5/8 | 2-3/4 | 627.031* |
| 30 | .1285 | 1-5/8 | 2-3/4 | 627.030 |
| 29 | .1360 | 1-3/4 | 2-7/8 | 627.029 |
| 28 | .1405 | 1-3/4 | 2-7/8 | 627.028* |
| 27 | .1440 | 1-7/8 | 3 | 627.027* |
| 26 | .1470 | 1-7/8 | 3 | 627.026* |
| 25 | .1495 | 1-7/8 | 3 | 627.025 |
| 24 | .1520 | 2 | 3-1/8 | 627.024* |
| 23 | .1540 | 2 | 3-1/8 | 627.023* |
| 22 | .1570 | 2 | 3-1/8 | 627.022 |
| 21 | .1590 | 2-1/8 | 3-1/4 | 627.021 |
| 20 | .1610 | 2-1/8 | 3-1/4 | 627.020* |

- Replacements for ThunderBit® Number Drill Index (1-60) **Art. No. 627.102**
- 135° split point, High Speed Steel, black & bronze oxide
- Premium grade steel
- Heavy-duty construction
- Unique flute design for superior material removal

P. Qty. 3

| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. |
|------|--------------------|--------------|----------------|-----------------|
| 19 | .1660 | 2-1/8 | 3-1/4 | 627.019* |
| 18 | .1695 | 2-1/8 | 3-1/4 | 627.018 |
| 17 | .1730 | 2-3/16 | 3-3/8 | 627.017* |
| 16 | .1770 | 2-3/16 | 3-3/8 | 627.016* |
| 15 | .1800 | 2-3/16 | 3-3/8 | 627.015* |
| 14 | .1820 | 2-3/16 | 3-3/8 | 627.014 |
| 13 | .1850 | 2-5/16 | 3-1/2 | 627.013* |
| 12 | .1890 | 2-5/16 | 3-1/2 | 627.012 |
| 11 | .1910 | 2-5/16 | 3-1/2 | 627.011 |
| 10 | .1935 | 2-7/16 | 3-5/8 | 627.010 |
| 9 | .1960 | 2-7/16 | 3-5/8 | 627.009* |
| 8 | .1990 | 2-7/16 | 3-5/8 | 627.008* |
| 7 | .2010 | 2-7/16 | 3-5/8 | 627.007 |
| 6 | .2040 | 2-1/2 | 3-3/4 | 627.006* |
| 5 | .2055 | 2-1/2 | 3-3/4 | 627.005* |
| 4 | .2090 | 2-1/2 | 3-3/4 | 627.004 |
| 3 | .2130 | 2-1/2 | 3-3/4 | 627.003 |
| 2 | .2210 | 2-5/8 | 3-7/8 | 627.002 |
| 1 | .2280 | 2-5/8 | 3-7/8 | 627.001 |

* Available OnDemand

HIGH SPEED STEEL DRILL BITS

135° Split Point



| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. |
|--------|--------------------|--------------|----------------|-----------------|
| 5/64" | 0.0781" | 1" | 2" | 624.564 |
| 3/32" | 0.0938" | 1-1/4" | 2-1/4" | 624.332 |
| 7/64" | 0.1094" | 1-1/2" | 2-5/8" | 624.764 |
| 1/8" | 0.1250" | 1-5/8" | 2-3/4" | 624.18 |
| 9/64" | 0.1406" | 1-3/4" | 2-7/8" | 624.964 |
| 5/32" | 0.1562" | 2" | 3-1/8" | 624.532 |
| 11/64" | 0.1719" | 2-1/8" | 3-1/4" | 624.1164 |
| 3/16" | 0.1875" | 2-5/16" | 3-1/2" | 624.316 |
| 13/64" | 0.2031" | 2-7/16" | 3-5/8" | 624.1364 |
| 7/32" | 0.2188" | 2-1/2" | 3-3/4" | 624.732 |
| 15/64" | 0.2344" | 2-5/8" | 3-7/8" | 624.1564 |
| 1/4" | 0.2500" | 2-3/4" | 4" | 624.14 |
| 17/64" | 0.2656" | 2-7/8" | 4-1/8" | 624.1764 |
| 9/32" | 0.2812" | 2-15/16" | 4-1/4" | 624.932 |
| 19/64" | 0.2969" | 3-1/16" | 4-3/8" | 624.1964 |
| 5/16" | 0.3125" | 3-3/16" | 4-1/2" | 624.516 |
| 21/64" | 0.3281" | 3-5/16" | 4-5/8" | 624.2164 |
| 11/32" | 0.3438" | 3-7/16" | 4-3/4" | 624.1132 |
| 23/64" | 0.3594" | 3-1/2" | 4-7/8" | 624.2364 |
| 3/8" | 0.3750" | 3-5/8" | 5" | 624.38 |
| 25/64" | 0.3906" | 3-3/4" | 5-1/8" | 624.2564 |
| 13/32" | 0.4062" | 3-7/8" | 5-1/4" | 624.1332 |
| 27/64" | 0.4219" | 3-15/16" | 5-3/8" | 624.2764 |
| 7/16" | 0.4375" | 4-1/16" | 5-1/2" | 624.716 |
| 29/64" | 0.4531" | 4-3/16" | 5-5/8" | 624.2964 |
| 15/32" | 0.4688" | 4-5/16" | 5-3/4" | 624.1532 |
| 31/64" | 0.4844" | 4-3/8" | 5-7/8" | 624.3164 |
| 1/2" | 0.5000" | 4-1/2" | 6" | 624.12 |
| 1/16" | 0.06250" | 7/8" | 1-7/8" | 624.116 |

HSS general purpose, straight shank, jobber drills are the most popular drill used by engineers, tradesmen and handymen.

- High speed Steel Material
- Black Oxide Coating
- Heavy-Duty Construction

P. Qty. 1

| Works Best in This Material | Heavy-Duty Black Oxide |
|---|------------------------|
| Aluminum/Aluminum Alloys; Bronze, Soft & Medium | |
| Iron, Cast | ✓ |
| Steel, Low & Medium Carbon | ✓ |
| Steel, High Alloy | ✓ |
| Steel, Stainless & PH | |
| Tough, Medium & High-Tensile Strength Alloys | ✓ |
| Wood & Plastic | |

METRIC HSS DRILLS



Cold-formed assembly drill for working in steel, tip angle 118°

Drilling Depth: 5x drill bit diameter

Note: The drill shank is turned from the 13.0 mm dia. to a 12.7 mm dia.

P. Qty: 1

| Size | Imperial Equivalent | Overall Length | Chip Flute Length | Art. No. |
|-------|---------------------|----------------|-------------------|----------------|
| M1 | 1/32 | 34mm | 12mm | 625.10 |
| M1.5 | 3/64 | 40mm | 18mm | 625.15 |
| M2 | 5/64 | 49mm | 24mm | 625.20 |
| M2.5 | 3/32 | 57mm | 30mm | 625.25 |
| M3 | 7/64 | 61mm | 33mm | 625.30 |
| M3.1 | 1/8- | 65mm | 36mm | 625.31* |
| M3.2 | 1/8+ | 65mm | 36mm | 625.32 |
| M3.5 | 9/64 | 70mm | 39mm | 625.35 |
| M4 | 5/32 | 75mm | 43mm | 625.40 |
| M4.2 | 11/64 | 75mm | 43mm | 625.42 |
| M4.5 | 11/64+ | 80mm | 47mm | 625.45 |
| M5 | 13/64 | 86mm | 52mm | 625.50 |
| M5.5 | 7/32 | 93mm | 57mm | 625.55 |
| M6 | 15/64 | 93mm | 57mm | 625.60 |
| M6.3 | 1/4- | 101mm | 63mm | 625.63* |
| M6.5 | 1/4 | 101mm | 63mm | 625.65 |
| M7 | 17/64 | 109mm | 69mm | 625.70 |
| M7.5 | 19/64 | 109mm | 69mm | 625.75 |
| M8 | 5/16 | 117mm | 75mm | 625.80 |
| M8.5 | 21/64 | 117mm | 75mm | 625.85 |
| M9 | 11/32 | 125mm | 81mm | 625.90 |
| M9.5 | 3/8 | 125mm | 81mm | 625.95 |
| M10 | 25/64 | 133mm | 87mm | 625.100 |
| M11 | 27/64 | 142mm | 94mm | 625.110 |
| M12 | 15/32 | 151mm | 101mm | 625.120 |
| M13.0 | 1/2 | 151mm | 101mm | 625.130 |

* Available OnDemand

**Drill Bit Assortment - M1-10 - 19 pcs.
Art. No. 634.4**



**Drill Bit Assortment - M1-13 - 25 pcs.
Art. No. 634.6**



HEAVY DUTY HSS BLACK & BRONZE OXIDE DRILL BITS

Straight Shank



| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. | P. Qty | Bulk Art. No. | Bulk Qty |
|--------|--------------------|--------------|----------------|-----------------|--------|-------------------|----------|
| 1/16" | 0.0625 | 7/8" | 1-7/8" | 627.116 | 3 | 627.116-12 | 12 |
| 5/64" | 0.0781 | 1" | 2" | 627.564 | | 627.564-12 | |
| 3/32" | 0.0938 | 1-1/4" | 2-1/4" | 627.332 | | 627.332-12 | |
| 7/64" | 0.1094 | 1-5/16" | 2-3/8" | 627.764 | | 627.764-12 | |
| 1/8" | 0.1250 | 1-7/16" | 2-1/2" | 627.18 | | 627.18-12 | |
| 9/64" | 0.1406 | 1-9/16" | 2-5/8" | 627.964 | | 627.964-12 | |
| 5/32" | 0.1562 | 1-11/16" | 2-3/4" | 627.532 | | 627.532-12 | |
| 11/64" | 0.1719 | 1-13/16" | 2-7/8" | 627.1164 | | - | |

Ideal for drilling truck frames and stainless steel, 135° split point eliminates "walking", unique flute design enhances chip ejection.

- 135° Split Point
- Premium Grade High Speed Steel Material
- Black and Bronze Oxide Coating/Finish
- Heavy-Duty Construction. Sizes 3/16" and larger have 3 flats on shank

| Works Best in This Material | Heavy-Duty Black Oxide |
|--|------------------------|
| Aluminum/Aluminum Alloys; Bronze, Soft and Medium | |
| Iron, Cast | ✓ |
| Steel, Low and Medium Carbon | ✓ |
| Steel, High Alloy | ✓ |
| Steel, Stainless and PH | |
| Tough, Medium and High-Tensile Strength Alloys | ✓ |
| Wood and Plastic | |

Tri-Shank



| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. | P. Qty | Bulk Art. No. | Bulk Qty | |
|--------|--------------------|--------------|----------------|-----------------|-------------------|--------------------|----------|---|
| 3/16" | 0.1875" | 1-7/8" | 3" | 627.316 | 3 | 627.316-12 | 12 | |
| 13/64" | 0.2031" | 1-5/16" | 3-1/8" | 627.1364 | | 627.1364-12 | | |
| 7/32" | 0.2188" | 2" | 3-1/4" | 627.732 | | 627.732-12 | | |
| 15/64" | 0.2344" | 2-1/16" | 3-3/8" | 627.1564 | | 627.1564-12 | | |
| 1/4" | 0.2500" | 2" | 3-1/2" | 627.14 | | 627.14-12 | | |
| 17/64" | 0.2656" | 2-1/8" | 3-5/8" | 627.1764 | | 627.1764-12 | | |
| 9/32" | 0.2812" | 2-1/4" | 3-3/4" | 627.932 | | 627.932-12 | | |
| 19/64" | 0.2969" | 2-3/8" | 3-7/8" | 627.1964 | | 627.1964-6 | | 6 |
| 5/16" | 0.3125" | 2-1/2" | 4" | 627.516 | | - | | - |
| 21/64" | 0.3281" | 2-9/16" | 4-1/16" | 627.2164 | | 627.2164-6 | | 6 |
| 11/32" | 0.3438" | 2-5/8" | 4-1/8" | 627.1132 | | 627.1132-6 | | |
| 23/64" | 0.3594" | 2-11/16" | 4-3/16" | 627.2364 | | 627.2364-6 | | |
| 3/8" | 0.3750" | 2-11/16" | 4-1/4" | 627.38 | 627.38-6 | | | |
| 25/64" | 0.3906" | 2-3/4" | 4-5/16" | 627.2564 | - | - | | |
| 13/32" | 0.4062" | 2-13/16" | 4-3/8" | 627.1332 | 627.1332-6 | 6 | | |

3/8" Reduced Shank



| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. | P. Qty | Bulk Art. No. | Bulk Qty |
|--------|--------------------|--------------|----------------|-----------------|--------|-------------------|----------|
| 27/64" | 0.4219" | 2-7/8" | 4-7/16" | 627.2764 | 2 | 627.2764-6 | 6 |
| 7/16" | 0.4375" | 2-15/16" | 4-1/2" | 627.716 | | 627.716-6 | |
| 29/64" | 0.4531" | 3" | 4-5/8" | 627.2964 | | 627.2964-6 | |
| 15/32" | 0.4688" | 3-1/8" | 4-3/4" | 627.1532 | | 627.1532-6 | |
| 31/64" | 0.4844" | 3-1/4" | 4-7/8" | 627.3164 | | 627.3164-6 | |
| 1/2" | 0.5000" | 3-3/8" | 5" | 627.12 | | 627.12-6 | |

HEAVY DUTY HSS BLACK & BRONZE OXIDE DRILL BITS

1/2" Reduced Shank



- 118° Split Point, 1/2" Shank
- Premium Grade High Speed Steel Material
- Black and Bronze Oxide Coating

P. Qty: 1

| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. |
|----------|--------------------|--------------|----------------|------------------|
| 33/64" | 0.5156" | 3" | 6" | 627.3364 |
| 17/32" | 0.5312" | 3" | 6" | 627.1732 |
| 9/16" | 0.5625" | 3" | 6" | 627.916 |
| 37/64" | 0.5781" | 3" | 6" | 627.3764 |
| 19/32" | 0.5938" | 3" | 6" | 627.1932 |
| 39/64" | 0.6094" | 3" | 6" | 627.3964 |
| 5/8" | 0.6250" | 3" | 6" | 627.58 |
| 21/32" | 0.6562" | 3" | 6" | 627.2132 |
| 11/16" | 0.6875" | 3" | 6" | 627.1116 |
| 45/64" | 0.7031" | 3" | 6" | 627.4564* |
| 23/32" | 0.7188" | 3" | 6" | 627.2332 |
| 3/4" | 0.7500" | 3" | 6" | 627.34 |
| 49/64" | 0.7656" | 3" | 6" | 627.4964 |
| 25/32" | 0.7812" | 3" | 6" | 627.2532 |
| 13/16" | 0.8125" | 3" | 6" | 627.1 |
| 27/32" | 0.8438" | 3" | 6" | 627.2732* |
| 7/8" | 0.8750" | 3" | 6" | 627.78 |
| 29/32" | 0.9062" | 3" | 6" | 627.2932 |
| 15/16" | 0.9375" | 3" | 6" | 627.1516 |
| 1" | 1.0000" | 3" | 6" | 627.1 |
| 1-1/16" | 1.0625" | 3" | 6" | 627.11161 |
| 1-1/8" | 1.1250" | 3" | 6" | 627.118 |
| 1-3/16" | 1.1875" | 3" | 6" | 627.13161 |
| 1-1/4" | 1.2500" | 3" | 6" | 627.114 |
| 1-15/16" | 1.3125" | 3" | 6" | 627.15161 |
| 1-1/2" | 1.5000" | 3" | 6" | 627.112 |

* Available OnDemand

Assortment

Thunderbit Drill Index - 8 pcs.

Contains one of: 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1"

Art. No. 627.90595



SOLID CARBIDE TiAlN TWIST DRILL



Particularly suitable for drilling in high-strength steels, chromium-nickel steels, chilled cast iron, grey cast iron, cast steel, manganese high carbon steel, bronze, aluminum with high silicon content and other difficult-to-machine materials.

Features:

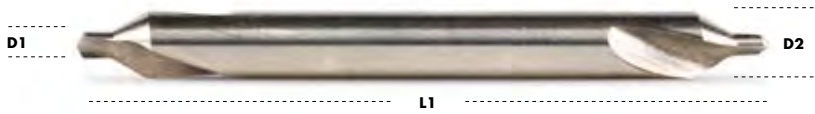
- Solid carbide with TiAlN coating
- Cylindrical shank
- 118 degree angle tip
- DIN 338

Applications:

- High-strength steels, chromium-nickel steels, chilled cast iron, grey cast iron, cast steel, manganese high carbon steel, bronze, aluminum with high silicon content and other difficult-to-machine materials

| Diameter (mm) | Length (mm) | Chip Flute Length (mm) | Shaft Diameter (mm) | Art. No. | P. Qty. |
|---------------|-------------|------------------------|---------------------|--------------------|---------|
| 2 | 49 | 24 | 2 | 544.3000351 | 1 |
| 4 | 75 | 43 | 4 | 544.3000371 | |
| 6 | 93 | 57 | 6 | 544.3000391 | |
| 8 | 117 | 75 | 8 | 544.3000411 | |
| 10 | 133 | 87 | 10 | 544.3000431 | |
| 12 | 151 | 101 | 12 | 544.3000437 | |

COMBI DRILLS / COUNTERSUNK BITS



- High speed steel
- Combined drill/countersunk
- Plain type
- 60° included countersunk angle

Application:

- Used for creating turning centers in bar stock so that the material can be turned or ground between centers in a lathe

P. Qty. 1

| Drill Ø (D1) | Drill Length (L2) | Overall length (L1) | Diameter Ø (D2) | Art. No. |
|--------------|-------------------|---------------------|-----------------|----------|
| 3/64 | 3/64 | 1-1/4 | 1/8 | 649.1 |
| 5/64 | 5/64 | 1-7/8 | 3/16 | 649.2 |
| 7/64 | 7/64 | 2 | 1/4 | 649.3 |
| 1/8 | 1/8 | 2-1/8 | 5/16 | 649.4 |
| 3/16 | 3/16 | 2-3/4 | 7/16 | 649.5 |
| 7/32 | 7/32 | 3 | 1/2 | 649.6 |
| 1/4 | 1/4 | 3-1/4 | 5/8 | 649.7 |

METRIC HSS DOUBLE-ENDED TWIST DRILL BIT



Metric HSS double-Ended Twist Drill Bit

- Right-hand cutting
- Special purpose grinding facilitates penetration of the drill into the material
- No centre punch required
- Drill does not drift from the drilling location
- Ideal for machining light gauge materials
- For drilling rivet holes

| Diameter | | Art. No. |
|----------|----------|----------|
| (mm) | (inches) | |
| 3.2 | 1/8 + | 636.32 |
| 5 | 3/16 | 636.50 |
| 6.4 | 1/4 | 636.64 |

TWIST DRILL HSCO BRONZE



The affordable, robust drill bit for machining stainless steel and heat-resistant steels. Suitable for general, broad applications in steel up to 1000 N/mm² strength, as well as cast iron.

Features:

- Self-centering, extremely robust, quiet drilling and a high degree of break resistance
- Cylindrical shank
- 118 degree angle tip

Applications:

- Ideal for construction sites and assembly applications
- Stainless steel, steel, cast iron

| Diameter (mm) | Length (mm) | Chip Flute Length (mm) | Drilling Depth (mm) | Art. No. | P. Qty. |
|---------------|-------------|------------------------|---------------------|------------|---------|
| 3 | 61 | 33 | 15 | 635.010300 | 1 |
| 3.5 | 70 | 39 | 17.5 | 635.010350 | |
| 4 | 75 | 43 | 20 | 635.010400 | |
| 4.5 | 80 | 47 | 22.5 | 635.010450 | |
| 5 | 86 | 52 | 25 | 635.010500 | |
| 5.5 | 93 | 57 | 27.5 | 635.010550 | |
| 6 | 93 | 57 | 30 | 635.010600 | |
| 6.5 | 101 | 63 | 32.5 | 635.010650 | |
| 7 | 109 | 69 | 35 | 635.010700 | |
| 7.5 | 109 | 69 | 37.5 | 635.010750 | |
| 8 | 117 | 75 | 40 | 635.010800 | |
| 8.5 | 117 | 75 | 42.5 | 635.010850 | |
| 9 | 125 | 81 | 45 | 635.010900 | |
| 9.5 | 125 | 81 | 47.5 | 635.010950 | |
| 10 | 133 | 87 | 50 | 635.011000 | |
| 10.5 | 133 | 87 | 52.5 | 635.011050 | |
| 11 | 142 | 94 | 55 | 635.011100 | |
| 11.5 | 142 | 94 | 57.5 | 635.011150 | |
| 12 | 151 | 101 | 60 | 635.011200 | |
| 12.5 | 151 | 101 | 62.5 | 635.011250 | |

COBALT DRILL BITS



135° Split-Point, Cobalt, High Speed Steel, Bronze Oxide

**Assortment
Cobalt Drill Index 1/16-1/4
13 pcs.
Art. No. 626.100**

| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. | P. Qty. |
|-------|--------------------|--------------|----------------|----------|---------|
| 1/16 | .0625 | 7/8 | 1-7/8 | 626.116 | 1 |
| 5/64 | .0781 | 1 | 2 | 626.564 | 1 |
| 3/32 | .0938 | 1-1/4 | 2-1/4 | 626.332 | 1 |
| 7/64 | .1094 | 1-1/2 | 2-5/8 | 626.764 | 1 |
| 1/8 | .1250 | 1-5/8 | 2-3/4 | 626.18 | 1 |
| 9/64 | .1406 | 1-3/4 | 2-7/8 | 626.964 | 1 |
| 5/32 | .1562 | 2 | 3-1/8 | 626.532 | 1 |
| 11/64 | .1719 | 2-1/8 | 3-1/4 | 626.1164 | 1 |
| 3/16 | .1875 | 2-5/16 | 3-1/2 | 626.316 | 1 |
| 13/64 | .2031 | 2-7/16 | 3-5/8 | 626.1364 | 1 |
| 7/32 | .2188 | 2-1/2 | 3-3/4 | 626.732 | 1 |
| 15/64 | .2344 | 2-5/8 | 3-7/8 | 626.1564 | 1 |
| 1/4 | .2500 | 2-3/4 | 4 | 626.14 | 1 |
| 17/64 | .2656 | 2-7/8 | 4-1/8 | 626.1764 | 1 |
| 9/32 | .2812 | 2-15/16 | 4-1/4 | 626.932 | 1 |
| 5/16 | .3125 | 3-3/16 | 4-1/2 | 626.516 | 1 |
| 21/64 | .3281 | 3-5/16 | 4-5/8 | 626.2164 | 1 |
| 23/64 | .3594 | 3-1/2 | 4-7/8 | 626.2364 | 1 |
| 3/8 | .3750 | 3-5/8 | 5 | 626.38 | 1 |
| 27/64 | .4219 | 3-15/16 | 5-3/8 | 626.2764 | 1 |
| 29/64 | .4531 | 4-3/16 | 5-5/8 | 626.2964 | 1 |
| 31/64 | .4844 | 4-3/8 | 5-7/8 | 626.3164 | 1 |



| Size | Decimal Equivalent | Flute Length | Overall Length | Art. No. | P. Qty. |
|-------|--------------------|--------------|----------------|--------------------|---------|
| 11/32 | .3438 | 3-7/16 | 4-3/4 | Special order only | 6 |
| 13/32 | .4062 | 3-7/8 | 5-1/4 | Special order only | 6 |
| 7/16 | .4375 | 4-1/16 | 5-1/2 | Special order only | 6 |
| 15/32 | .4688 | 4-5/16 | 5-3/4 | Special order only | 6 |
| 1/2 | .5000 | 4-1/2 | 6 | Special order only | 6 |

4 PLUS ROTARY HAMMER DRILL BIT



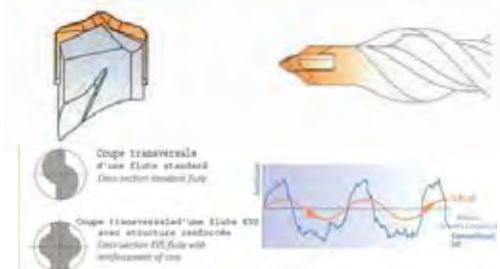
For use in concrete, masonry and natural stone

Compatible with SDS

- The new fast and durable carbide tip provides aggressive, easy centering and fast drilling from the very start. Steel reinforcement no longer presents a problem.
- The dynamic, chisel-shaped drill bit head penetrates rapidly into the material and simultaneously feeds the drilling dust into the multi-fluted spiral.
- The patented spacious, multi-fluted KVS-Spiral quickly removes drilling dust from the hole, saving both time and money.
- The unique reinforced flute geometry (KVS-flute) reduces vibration and transfers more impact energy from the hammer to the drilling head, thus remarkably increasing drilling speed and life expectancy. Drilling is less strenuous for the operator and for the rotary hammer.
- Modern thermal treatment and a special surface finish reduce the wear of the bit and improve its resistance against bending forces.

| Dia. (in) | Working Length (in) | Total Length (in) | Art. No. |
|-----------|---------------------|-------------------|-----------|
| 5/32 | 2 | 4 1/4 | 648.5322 |
| 5/32 | 4 | 6 1/4 | 648.5324 |
| 3/16 | 2 | 4 1/4 | 648.3162* |
| 3/16 | 6 | 6 1/4 | 648.3164 |
| 7/32 | 6 | 8 1/4 | 648.7326 |
| 1/4 | 2 | 4 1/4 | 648.142* |
| 1/4 | 4 | 6 1/4 | 648.144 |
| 1/4 | 6 | 8 1/4 | 648.146* |
| 1/4 | 12 | 14 | 648.1412* |
| 5/16 | 4 | 6 1/4 | 648.5164 |
| 3/8 | 4 | 6 1/4 | 648.384 |
| 1/2 | 8 | 10 1/4 | 648.128 |
| 5/8 | 6 | 8 | 648.586 |
| 5/8 | 10 | 12 | 648.5810 |

* Available OnDemand



4 PLUS DRILL SET



Art. No. 648.5

Compatible with SDS

Contains 1 each of:

3/6" x 4", 1/4" x 6", 5/16" x 6, 3/8" x 6", 1/2" x 6"

SDS PLUS QUADRO HAMMER DRILL BITS



Rotary hammer drill bit with four carbide cutting edges. Allows for rapid and precise drilling with a longer service life against concrete and rebar ANSI B212.15-1994.

Features:

- Solid carbide head up to \varnothing 5/16"
- 4 carbide cutting teeth
- Up to 150% higher lifetime in reinforcement than conventional hammer drill bits
- Excellent resistance to high temperatures
- Rapid drilling progress and longer lifetime due to new flute design.
- SDS Plus fitting

Applications:

- Drilled holes for mechanical anchors in reinforced and unreinforced concrete
- Drilled holes for subsequent reinforcement connection
- Drilling of breakthrough holes for tubes and cables

Suitable For:

- Concrete, reinforced concrete, natural stone, brick, masonry



| Description | Head Type | Diameter (in) | Length (in) | Working Length (in) | Art. No. |
|----------------------------------|---------------------------|---------------|-------------|---------------------|-------------------|
| SDS Plus Quadro Hammer Drill Bit | Solid Carbide Head | 3/16 | 6 1/2 | 4 | 648.316612 |
| | | 3/16 | 10 1/2 | 8 | 648.316105 |
| | | 1/4 | 6 1/2 | 4 | 648.014612 |
| | | 1/4 | 10 1/4 | 8 | 648.014102 |
| | | 5/16 | 6 1/2 | 4 | 648.516612 |
| | | 5/16 | 12 1/2 | 10 | 648.516125 |
| | Single-piece Carbide Head | 3/8 | 6 1/4 | 4 | 648.038614 |
| | | 3/8 | 12 1/4 | 10 | 648.038122 |
| | | 7/16 | 12 1/4 | 10 | 648.716122 |
| | | 1/2 | 6 1/4 | 4 | 648.012614 |
| | Three-piece Carbide Head | 1/2 | 12 1/4 | 10 | 648.012122 |
| | | 5/8 | 8 1/4 | 6 | 648.058814 |
| | | 5/8 | 12 1/4 | 10 | 648.058122 |
| | | 3/4 | 12 | 10 | 648.034012 |
| | | 7/8 | 12 | 10 | 648.078012 |

MASONRY DRILL BITS



118° point, carbide-tip, masonry, regular helix, black oxide

- Wide flutes improve dust removal
- For best performance, use slow speed and apply enough feed pressure to keep the drill cutting
- For recommended use in brick, concrete and sandstone

| Size | Shank Dia. | Overall Length | Art. No. | P. Qty. |
|-------|------------|----------------|-------------------|---------|
| 1/8" | 1/8" | 3" | 647.18 | 2 |
| 5/32" | 5/32" | 3-1/2" | 647.532 | |
| 3/16" | 3/16" | 4" | 647.316 | |
| 1/4" | 1/4" | 6" | 647.14.6 | |
| 5/16" | 1/4" | 4" | 647.516.4 | |
| 5/16" | 1/4" | 6" | 647.516.6* | |
| 3/8" | 1/4" | 4" | 647.38.4 | |
| 3/8" | 1/4" | 6" | 647.38.6 | |
| 1/2" | 1/4" | 4" | 647.12.4* | |
| 1/2" | 3/8" | 6" | 647.12.6 | |

* Available OnDemand

ASSORTMENTS



Art. No. 964.6272

Heavy Duty Drill Set - 30 pcs
15 assorted sizes, size range 1/16" - 1/2"



Art. No. 964.6274

Heavy Duty Drill Set - 40 pcs
20 assorted sizes, size range 1/16" - 3/8"

Note: When working on metals (except Cast Iron) use Würth Cutting Oil, **Art. No. 893.050004**. This will provide clean cutting and long service life.

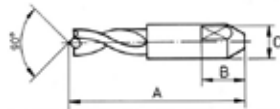
SPOT WELD DRILL BITS



| Ø mm | Total Length mm | Flute length mm | Max. Speed | Art. No. |
|------|-----------------|-----------------|-----------------|-------------------|
| 6 | 66 | 27 | up to 1,200 rpm | 710.740060 |
| 8 | 79 | 36 | up to 950 rpm | 710.740080 |
| 10 | 88 | 44 | up to 730 rpm | 710.01010 |

HSCO Spot Weld Drill Bit TiN - Titanium Nitride coated

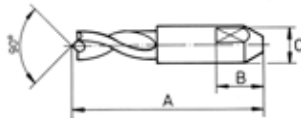
- Tool life extended two to three times
- High cutting speed



| Drilling Ø mm | A mm | B mm | C mm | Max. RPM | Art. No. | P. Qty. |
|---------------|------|------|------|----------|----------------|---------|
| 8 | 44.7 | 17 | 7.5 | 950 | 710.808 | 1 |

Suitable for C-clamp drills

- No need for centre punching
- High cutting speed



| Drilling Ø mm | A mm | B mm | C mm | Art. No. | P. Qty. |
|---------------|------|------|------|---------------|---------|
| 6 | 44 | 16 | 7.5 | 710.60 | 1 |
| 8 | | | | 710.80 | |
| 9 | | | | 710.90 | |

HSCO Spot Weld Drill Bit

- Suitable for C-clamp drills
- No need for centre-punching



Note: Suitable for use with VARIO DRILL VD90 **703.090**



| Ø mm | Total Length mm | Flute length mm | Max. Speed | Art. No. |
|------|-----------------|-----------------|---------------|---------------|
| 6 | 66 | 27 | up to 920 rpm | 710.6 |
| 8 | 79 | 36 | up to 700 rpm | 710.8 |
| 10 | 86 | 41 | up to 700 rpm | 710.10 |

HSS Spot Weld Drill Bit

- Fixed centering point eliminates need for a centre punch



| Drilling Ø mm | Stop Ø mm | Total length mm | Recommended RPM | Art. No. | P. Qty. |
|---------------|-----------|-----------------|-----------------|-----------------|---------|
| 7.5 | 10 | 88 | 600 - 670 | 710.0010 | 1 |

HSCO Spot Weld Drill Bit with Step

For the quick and precise drilling out of spot welds in car bodywork repairs. The PLUS centering tip guarantees a long service life.

The step at the tip of the bit acts as a stop and indicates to the user the exact drilling depth.

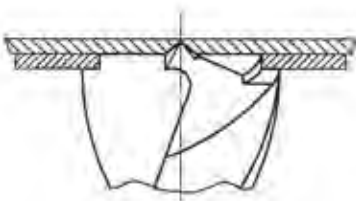
- This prevents unintentional drilling through into the second sheet of metal.

If the user notices that the step is touching the metal only on one side, then the drill is tilting.

- The tilt can then be easily corrected.

Improved PLUS centering tip for modern high-strength car body sheets.

- The centering tip has a long service life.



SPOT WELD DRILL BITS

Art. No. 698.1



Two Piece Spring Spot Weld Bit

Features:

- Right-hand cutting
- Special ground edge facilitates entry of the twist drill into the material
- No centre punch required
- Drill does not drift from the drilling location
- Spring loaded/Anti-skate tip
- Specially suitable for working on thin-gauge material

Areas of application:

- Bodywork & sheet metal processing workshops
- Apparatus construction

Additional tools:

Replacement end **Art. No. 698.01**



3-EDGED SOLID CARBIDE SPOT WELD CUTTER



For precision milling/drilling out of spot welds on vehicle bodies with high-strength steel plates in vehicles of all types, A-pillars, B-pillars, door sills, etc.

Excellent centering of the drill bit on the spot weld.

- Broad yet stable geometry.

Very long service life.

Drill bit tip features innovative Magma coating.

- Innovative layered coating of TiN and TiAN increases durability and performance.

Applications:

- With its shorter length, **Art. No. 710.810800** is suitable for use with C-Clamp drills.
- With its triangular shaft, **Art. No. 710.811800** is only suitable for use in 3-jaw chucks drills.

Instructions:

- The solid carbide material is very brittle due to its extremely high hardness level and is susceptible to breakage if handled improperly.
- Insert drill bit precisely and at a right angle. First position the drill bit in the centre and then drill using consistent contact pressure.
- We recommend not exceeding a constant speed of 1800 rpm while drilling.

Note: The following must absolutely be avoided: interrupted cuts, abrupt bit contact, lateral impacts, and dropping the bit.

| Art. No. | 710.810800 | 710.811800 |
|------------------|------------------------------|------------|
| P. Qty. | 1 | 1 |
| Diameter - C | 8 mm | 8 mm |
| Length - A | 45 mm | 80 mm |
| Shank Length - B | 35 mm | 20 mm |
| Shank Diameter | 7.5 mm | 8 mm |
| Shank Type | Cylindrical with single flat | Triangular |
| Material | Carbide | Carbide |

DRILL INDEXES & ASSORTMENTS



Art. No. 627.101

ThunderBit® Letter Drill - Index (A-Z)

Contents: 26 piece set, black & bronze oxide, high speed steel



Art. No. 627.102

ThunderBit® Number Drill - Index (1-60)

Contents: 60 piece set, bronze oxide, high speed steel.



Art. No. 627.100

ThunderBit® Drill Index

Contents: 29 drill bits, 1/16" to 1/2" by 64th, protective indexed metal case

NOTE: All dia. larger than 3/8" come with a reduced shank



Art. No. 634.4

Metric High Speed Steel Drill Bit Indexes - DIN 338

Contents: 19 twist drills from 1.0 x 10.0mm/0.5 mm intervals



Art. No. 627.1100

ThunderBit® Drill Index Mechanic's Size

Contents: 21 piece set, sizes 1/16" - 3/8"



Art. No. 634.6

Metric High Speed Steel Drill Bit Indexes - DIN 338

Contents: 25 twist drills from 1.0 x 13.0mm/0.5 mm intervals



Art. No. 627.90595

HSS Heavy Duty ThunderBit® Drill Index

Contents: Heavy duty 1/2" reduced-flatted shank Silver & demming drill det, black & bronze oxide. 8 pieces - One of Each: 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1", moulded plastic case



Art. No. 627.640627

ThunderTap® & ThunderBit® Bit Set

Contents: 9 taps and 9 matching drills: 6-32NC - #36, 8-32NC - #29, 10-24NC - #25, 10-32NF - #21, 1/4-20NC - #7, 5/16-18NC - F, 3/8-16NC - 5/16, 7/16-14NC - U, 1/2-13NC - 27/64



Art. No. 624.11100

Left-Hand Drill Assortment

Contents: 29 pieces



Art. No. 627.10

Empty Drill Index

Contents: 29 Compartments, 1/16" - 1/2"

HSS-E STEP DRILL

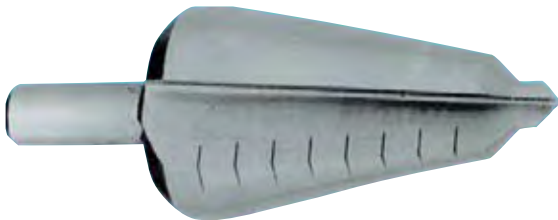


- CBN (cubical boron nitride) deep ground Suitable for material thickness up to 4 mm
- Centering, drilling and deburring in one step
- Less pressure needed due to specially ground opening angle per cutting step
- Sharp cutting edges produce exact hole sizes
- Extended service life due to radial and axial relief grinding
- Increase life span by using Würth Cut+Cool Cutting and Drilling Oil (**Art. No. 893.050004**)

Recommended Cutting Speed (RPM)

| Non-Ferrous Metals | Steel Unhardened St 14-St 37 | High Grade Stainless | Duro-Plastics | Thermo-Plastics | Drill Diameter mm | Art. No. | P. Qty. |
|--------------------|------------------------------|----------------------|---------------|-----------------|-------------------|-------------------|---------|
| 2400-800 | 1350-460 | 1200-460 | 1200-400 | 1200-550 | 4-12 | 694.022412 | 1 |
| 2400-320 | 1350-185 | 1200-160 | 1200-160 | 1600-220 | 4-30 | 694.022430 | |

HSS REAMER



- CBN (cubical boron nitride) deep ground
- Universally suitable; stepless drilling and widening of holes with a diameter range of 3-20 mm
- Suitable for drilling thin sheet metal
- No counter sinking or pre-drilling required
- Burr-free drilling without deforming the sheet metal
- Excellent heat conductivity for improved tool life due to radial and axial relief grinding
- Increase life span by using Würth Cut+Cool Cutting and Drilling Oil (**Art. No. 893.050004**)

| Size | Drill Diameter mm | Total Length mm | Shank Dia. mm | Art. No. |
|------|-------------------|-----------------|---------------|------------------|
| 1 | 3-14 | 53 | 6 | 694.02414 |
| 2 | 5-20 | 61 | 8 | 694.02420 |

SPIRAL FLUTE CAR REAMER



Hole Buster™ super premium 50-AG flatted tri-shank design.

Designed for reaming of structural steel plate commonly found in truck frames, rail cars, bridges and pressure vessels.

- Special HI-TUNGSTEN tool steel
- All tools are constructed with left-hand spiral and right-hand cut Left spiral eliminates the tendency of the reamer to hog into holes; this feature makes a stop collar unnecessary

| Diam. (inches) | Point Diameter | Min. Starting | Overall Length | Shank Diameter | Art. No. | P. Qty. |
|----------------|----------------|---------------|----------------|----------------|------------------|---------|
| 3/8" | .250" | 5/16" | 4 5/8" | 3/8" | 694.06390 | 1 |
| 1/2" | .281" | 3/8" | 5 7/8" | 1/2" | 694.06400 | |
| 9/16" | .343" | 7/16" | 5 7/8" | 1/2" | 694.06410 | |
| 5/8" | .343" | 7/16" | 6 3/8" | 1/2" | 694.06420 | |
| 3/4" | .406" | 1/2" | 6 7/8" | 1/2" | 694.06440 | |
| 1" | .594" | 7/8" | 6 7/8" | 1/2" | 694.06480 | |

Note: Use only to enlarge previously formed or drilled holes

SPIRAL REAMER SET



Art. No. 694.05000 P. Qty. 1

- 1/2", 3-flatted shank prevents slippage in three-jaw chuck
- High speed steel, black & bronze oxide
- Ideal for maintenance and repair

| Size | Decimal Equivalent | Flute Length | Overall Length |
|------|--------------------|--------------|----------------|
| 1/2" | .5000 | 3-15/16" | 5-15/16" |
| 5/8" | .6250 | 4-1/2" | 6-9/16" |
| 3/4" | .7500 | 4-15/16" | 7" |

SMART STEP TWIST DRILL BIT ASSORTMENT HSS

Art. No. 624.930001

High-performance drill with unique SMART STEP technology. For high-precision, circular through holes for handguided use in steel up to 1000 N/mm², aluminium, plastic, non-ferrous metals, hardwood and softwood.

Features:

- Stepped drill bit tip geometry (from dia. 2.5 mm)
- Precise circular holes without centre-punching
- Extremely convenient drilling
- Saves pre-drilling, precise spot drilling without running off centre
- Angled drilling possible
- Simple core drilling or enlarging an existing drill hole
- Perfect for drilling out rivets
- Ideal for window construction
- Significantly quicker than conventional twist drills bits
- Tri-shank (dia. 4mm) for optimum power transmission

Details / Applications:

- Perfect for rivet holes; drilling sheet metal or thin-walled profile materials (e.g. aluminium/window profiles)
- Ideal for high-precision, comfortable and fast work in solid material (e.g. in steel up to a strength of 1000 N/mm² aluminium and plastics)



CONTENTS FOR ART. NO. 624.930001

| Designation | Art. No. | Qty. |
|--|------------|------|
| Twist drill HSS DIN 338 SMART STEP 1 mm | 624.930100 | 1 |
| Twist drill HSS DIN 338 SMART STEP 1.5 mm | 624.930150 | |
| Twist drill HSS DIN 338 SMART STEP 2.0 mm | 624.930200 | |
| Twist drill HSS DIN 338 SMART STEP 2.5 mm | 624.930250 | |
| Twist drill HSS DIN 338 SMART STEP 3.0 mm | 624.930300 | |
| Twist drill HSS DIN 338 SMART STEP 3.5 mm | 624.930350 | |
| Twist drill HSS DIN 338 SMART STEP 4.0 mm | 624.930400 | |
| Twist drill HSS DIN 338 SMART STEP 4.5 mm | 624.930450 | |
| Twist drill HSS DIN 338 SMART STEP 5.0 mm | 624.930500 | |
| Twist drill HSS DIN 338 SMART STEP 5.5 mm | 624.930550 | |
| Twist drill HSS DIN 338 SMART STEP 6.0 mm | 624.930600 | |
| Twist drill HSS DIN 338 SMART STEP 6.5 mm | 624.930650 | |
| Twist drill HSS DIN 338 SMART STEP 7.0 mm | 624.930700 | |
| Twist drill HSS DIN 338 SMART STEP 7.5 mm | 624.930750 | |
| Twist drill HSS DIN 338 SMART STEP 8.0 mm | 624.930800 | |
| Twist drill HSS DIN 338 SMART STEP 8.5 mm | 624.930850 | |
| Twist drill HSS DIN 338 SMART STEP 9.0 mm | 624.930900 | |
| Twist drill HSS DIN 338 SMART STEP 9.5 mm | 624.930950 | |
| Twist drill HSS DIN 338 SMART STEP 10.0 mm | 624.931000 | |

| | |
|--------------------------------------|------------------|
| Number of pieces in assortment / set | 19 Pcs |
| Surface | Multiple refined |
| Standard / drilling depth | DIN 338/5xD |

Related products use Cut + Cool - **893.050004**



HSS END MILLS



Single End, Multi Flute, Non-Center Cutting

- Shank type: parallel shank with flat
- 4 spiral flutes
- Cutting length: regular, sizes 1/8" - 3/4"

Application:

To provide improved performance. For profile milling and producing open slots or pockets where a plunge feed-in is not required.

| Size | Shank Dia. | Flute Length | Overall Length | No. of flutes | Art. No. | P. Qty. |
|------|------------|--------------|----------------|----------------|-----------------|---------|
| 3/16 | 3/8 | 1/2 | 2 3/8 | 4 | 654.316* | 1 |
| 1/4 | | 5/8 | 2 7/16 | | 654.14 | |
| 5/16 | | 3/4 | 2 1/2 | | 654.516 | |
| 3/8 | | 3/4 | 2 1/2 | | 654.38 | |
| 7/16 | | 1 | 2 11/16 | | 654.716 | |
| 1/2 | | 1 1/4 | 3 1/4 | | 654.12 | |
| 3/4 | 1/2 | 1 5/8 | 3 5/8 | 654.34* | | |

END MILL HSS-CO8



Suitable for a wide range of applications including both low-strength and difficult-to-machine materials.

Features:

- Quality high speed steel with 8% cobalt
- 90 degree angle tip
- DIN 844K, centre-cutting

Applications:

- Construction and tool steels
- Also suitable for non-ferrous metals, cobalt and nickel alloys, titanium and titanium alloys

| Diameter (mm) | Length (mm) | Chip Flute Length (mm) | Shaft Diameter (mm) | Art. No. | P. Qty. |
|---------------|-------------|------------------------|---------------------|--------------------|---------|
| 4 | 55 | 11 | 6 | 544.3600605 | 1 |
| 5 | 57 | 13 | 6 | 544.3600607 | |
| 6 | 57 | 13 | 6 | 544.3600609 | |
| 8 | 69 | 19 | 10 | 544.3600613 | |
| 10 | 72 | 22 | 10 | 544.3600617 | |
| 12 | 83 | 26 | 12 | 544.3600619 | |
| 14 | 83 | 26 | 12 | 544.3600621 | |
| 18 | 92 | 32 | 16 | 544.3600624 | |
| 20 | 104 | 38 | 20 | 544.3600625 | |

END MILL HSS-CO8 TiAlN



Suitable for a wide range of applications including both low-strength and difficult-to-machine materials.

Features:

- TiAlN coating provides faster cutting, longer service life and overall greater performance
- Quality high speed steel with 8% cobalt and TiAlN coating
- 90 degree angle tip
- DIN 844K, centre-cutting
- Superior performance
- Long service life

Applications:

- Construction and tool steels
- Also suitable for non-ferrous metals, cobalt and nickel alloys, titanium and titanium alloys

| Diameter (mm) | Length (mm) | Chip Flute Length (mm) | Shaft Diameter (mm) | Art. No. | P. Qty. |
|---------------|-------------|------------------------|---------------------|--------------------|---------|
| 2 | 51 | 7 | 6 | 544.3600641 | 1 |
| 4 | 55 | 11 | 6 | 544.3600645 | |
| 5 | 57 | 13 | 6 | 544.3600647 | |
| 6 | 57 | 13 | 6 | 544.3600649 | |
| 8 | 69 | 19 | 10 | 544.3600653 | |
| 10 | 72 | 22 | 10 | 544.3600657 | |
| 12 | 83 | 26 | 12 | 544.3600659 | |
| 14 | 83 | 26 | 12 | 544.3600661 | |
| 18 | 92 | 32 | 16 | 544.3600664 | |
| 20 | 104 | 38 | 20 | 544.3600665 | |

HSS-CO8 BI-METAL HOLE SAWS



Properties

| | |
|-------------------------------|------|
| Versatility: | ●●●● |
| Service life: | ●●●● |
| Drilling speed: | ●●●● |
| Drill-hole quality/precision: | ●●●● |

| |
|-----------------|
| Steel |
| Stainless Steel |

High drilling speed and long service life, even when drilling solid stainless steel materials.

Extremely fast sawing with minimal expenditure of force
Newly developed tooth shape

High concentric and side-stroke precision
Sturdy base plate with more threads

Low vibration up to a cutting depth of 38mm

Combination Vario teeth made of M42 bi-metal (8% cobalt)

Instructions:

Pre-drill using light contact pressure. Continue drilling with minimal, even pressure; avoid oscillating while drilling. Follow speed guidelines and use coolant. Allow hole saw to "air" when using with wood and wood alternatives.

Materials to be processed

Steel, stainless steel, cast iron, copper, bronze, aluminum, wood and plastic

| Size | | Recommended Speed in RPM | | | | | Art. No. |
|-------|--------|--------------------------|-----------------|-----------|-------|----------|-------------------|
| mm | inches | Steel | Stainless Steel | Cast Iron | Brass | Aluminum | |
| 19mm | 3/4" | 460 | 230 | 300 | 600 | 690 | 632.19 |
| 22mm | 7/8" | 390 | 195 | 260 | 520 | 585 | 632.22 |
| 25mm | 1" | 350 | 175 | 235 | 470 | 525 | 632.25 |
| 29mm | 1-1/8" | 300 | 150 | 200 | 400 | 450 | 632.29 |
| 32mm | 1-1/4" | 275 | 140 | 180 | 360 | 410 | 632.32 |
| 35mm | 1-3/8" | 250 | 125 | 165 | 330 | 375 | 632.35 |
| 38mm | 1-1/2" | 230 | 115 | 150 | 300 | 345 | 632.38 |
| 41mm | 1-5/8" | 210 | 105 | 140 | 280 | 315 | 632.41 |
| 44mm | 1-3/4" | 195 | 95 | 130 | 260 | 295 | 632.44 |
| 51mm | 2" | 170 | 85 | 115 | 230 | 255 | 632.51 |
| 54mm | 2-1/8" | 160 | 80 | 105 | 210 | 240 | 632.54 |
| 57mm | 2-1/4" | 150 | 75 | 100 | 200 | 225 | 632.57 |
| 64mm | 2-1/2" | 135 | 65 | 90 | 180 | 205 | 632.64 |
| 70mm | 2-3/4" | 125 | 60 | 80 | 160 | 185 | 632.70 |
| 76mm | 3" | 115 | 55 | 75 | 150 | 170 | 632.76 |
| 89mm | 3-1/2" | 95 | 45 | 65 | 130 | 145 | 632.900089 |
| 102mm | 4" | 85 | 40 | 55 | 110 | 130 | 632.102 |
| 111mm | 4-3/8" | 80 | 40 | 50 | 100 | 120 | 632.900111 |
| 114mm | 4-1/2" | 75 | 35 | 50 | 100 | 105 | 632.900114 |
| 121mm | 4-3/4" | 70 | 35 | 45 | 90 | 95 | 632.900121 |
| 127mm | 5" | 65 | 30 | 40 | 85 | 90 | 632.900127 |
| 140mm | 5-1/2" | 60 | 30 | 35 | 80 | 85 | 632.900140 |
| 152mm | 6" | 55 | 25 | 35 | 75 | 85 | 632.900152 |
| 200mm | 7-7/8" | 45 | 20 | 30 | 60 | 65 | 632.900200 |

Mounting Hub A2 (with pilot drill bit)



| | | |
|--|----------------------------------|---------------------|
| for dia. 32-152 mm Shank dia. 11mm, hex | Art. No. 632.02 | P. Qty. 1 |
|--|----------------------------------|---------------------|

Pilot Drill AO14C (for mount A2)



| | | |
|---------------------------------|-----------------------------------|---------------------|
| dia. 6.35 mm (1/4"), short type | Art. No. 632.014 | P. Qty. 1 |
|---------------------------------|-----------------------------------|---------------------|

Mounting Hub A4 (with pilot drill bit)



| | | |
|--------------------------------------|----------------------------------|---------------------|
| dia. 14-30 mm, Shank dia. 6.35 mm | Art. No. 632.04 | P. Qty. 1 |
|--------------------------------------|----------------------------------|---------------------|

Pilot Drill AO14D (for mount A4)



| | | |
|--------------------------------|------------------------------------|---------------------|
| dia. 6.35 mm (1/4"), long type | Art. No. 632.0141 | P. Qty. 1 |
|--------------------------------|------------------------------------|---------------------|

Note: When working on metals (except Cast Iron) use Cut+Cool Cutting and Drilling Oil **Art. No. 893.050004**. This will provide clean cutting and long service life.

BI-METAL HOLE SAW ASSORTMENT – 16 PCS



Art. No. 5964.063291

Steel

Stainless Steel

Best suited for:



Extremely fast sawing with minimal expenditure of force

Newly developed tooth shape

High concentric and side-stroke precision

Sturdy base plate with more threads

Low vibration

Combination Vario teeth made of M42 bi-metal (8% cobalt)

Materials to be processed:

Steel, stainless steel, cast iron, copper, bronze, aluminum, wood and plastic.

Kit Contents

| Size | | Recommended Speed in RPM | | | | | Art. No. |
|------|---------|--------------------------|------------------------------|-----------|-------|----------|----------------------|
| Mm | In. | Soft Steel | Tool Steel & Stainless Steel | Cast Iron | Brass | Aluminum | |
| 19 | 3/4 | 460 | 230 | 300 | 600 | 690 | 632.19 |
| 22 | 7/8 | 390 | 195 | 260 | 520 | 585 | 632.22 |
| 25 | 1 | 350 | 175 | 235 | 470 | 525 | 632.25 |
| 32 | 1-1/4 | 275 | 140 | 180 | 360 | 410 | 632.32 |
| 35 | 1-3/8 | 250 | 125 | 165 | 330 | 375 | 632.35 |
| 38 | 1-1/2 | 230 | 115 | 150 | 300 | 345 | 632.38 |
| 44 | 1-3/4 | 195 | 95 | 130 | 260 | 295 | 632.44 |
| 51 | 2 | 170 | 85 | 115 | 230 | 255 | 632.51 |
| 57 | 2-1/4 | 150 | 75 | 100 | 200 | 225 | 632.57 |
| 64 | 2-1/2 | 135 | 65 | 90 | 180 | 205 | 632.64 |
| 68 | 2-11/16 | 130 | 65 | 85 | 170 | 195 | 0632 900 068* |
| 76 | 3 | 115 | 55 | 75 | 150 | 170 | 632.76 |

*Available through Special Orders

| Art. No. | Description | Qty. |
|-----------------|------------------------|------|
| 632.02 | Mounting Hub A2 | 1 |
| 632.04 | Mounting Hub A4 | |
| 0632 07* | Slinger Spring A7 | |
| 0632 05* | Extension for Hold Saw | |

*Available through Special Orders

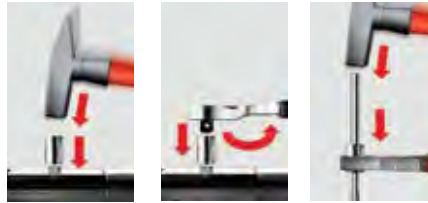
SCREW EXTRACTION SET 15PCS



Application: Internal extractor:



External extractor:



Art. No. 714.131150

Problem solver for stripped or rusty Allen and Torx screw heads. Also for hexagonal bolts and nuts

- Precisely manufactured conical spiral profile
- All sockets also have a wrench flat for the external drive
- Supplied in metal box with high-quality foam insert with clamping effect
- Suitable for impact wrenches

Easy unscrewing of stripped bolt heads and nuts

Thanks to conical spiral profile

Saves lots of time

Thanks to quick loosening instead of heating or drilling out

Applications:

For repair and removal work in any motor vehicle/utility vehicle workshop, locksmith's shop, metal construction etc

Notes on use for internal extractor:

Select the appropriate extractor and screw it into the screw with 3/4" or 1/2" ratchet. Thanks to its aggressive conical spiral shape, the extractor grips securely into the material of the screw, allowing it to be securely unscrewed. Also ideal for unscrewing torn-off bolts and screws. Tap torn-off bolt or screw. Drill up to a half millimetre larger with dias. up to 6 mm. Drill up to one millimetre larger with dias. of 8-14 mm. Select the appropriate extractor, screw it into the drilled hole and then unscrew the screw or bolt.

| Designation | Length | Wrench & Size | Art. No. | Qty |
|-------------------------------------|--------------|---------------|------------|-----|
| 3/8" Long Internal Extractor, 6 mm | 60mm | | 714.131206 | 1 |
| 3/8" Long Internal Extractor, 8 mm | | | 714.131208 | |
| 3/8" Long Internal Extractor, 10 mm | | | 714.131210 | |
| 1/2" Long Internal Extractor, 12 mm | 78mm | | 714.131212 | |
| 1/2" Long Internal Extractor, 14 mm | | | 714.131214 | |
| 3/8" Spiral Socket 10 mm | 36mm | 17 | 714.131310 | |
| 3/8" Spiral Socket 12 mm | | 19 | 714.131312 | |
| 3/8" Spiral Socket 13 mm | | | 714.131313 | |
| 3/8" Spiral Socket 14 mm | | 714.131314 | | |
| 1/2" Spiral Socket 16 mm | | 21 | 714.131316 | |
| 1/2" Spiral Socket 17 mm | | | 714.131317 | |
| 1/2" Spiral Socket 18 mm | | 26 | 714.131318 | |
| 1/2" Spiral Socket 19 mm | | | 714.131319 | |
| 3/8" Expulsion Mandrel | 74mm | | 714.131360 | |
| 1/2" Expulsion Mandrel | 80mm | | 714.131370 | |
| Metal Box, size 1 | 220x110x35mm | | 955.7151 | |
| Hard Foam with clamping effect | 215x105x30mm | | 955.131300 | |

Note: Item Sold Separately by Special Order Only

DRILL-OUT® POWER EXTRACTOR KIT



| Recommended Sizes | |
|-------------------|-------------|
| Dia. (mm) | Dia. (inch) |
| 6 | 1/4 |
| 8 | 5/16 |
| 10 | 3/8 |
| 12 | 1/2 |

Art. No. 698.401

- Can drill into grade 8 and stainless steel bolts
- Self-centering tip
- Fast, easy time saving operation
- Reusable
- Left hand drill bit and extractor all in one

Applications:

- Auto mechanics
- Machinery rebuilder/repairmen
- Maintenance engineers and technicians

BOLT/STUD EXTRACTOR SET



Art. No. 690.14

- Studs which have been sheared off level to the surface or are emerging from the surface have to be centre punched
- If the stud is broken below the surface, the bore has to be drilled down to the shear point according to the external diameter of the drill guide. Pre-drill the broken stud.
- Enlarge the hole for correct mandrel
- Hammer mandrel into hole
- Slide nut to bottom of mandrel and unscrew bolt gently without tilting

Contents:

- Drill Guides A-K
- Drills: 3.2/4.8/6.4/8.0/8.7
- Mandrels and removing nuts

| For Bolt Dia. | | Drill Guides | | | Pre-drill (mm) | Final draft without drill guide (mm) | Mandrel & removing g Nut A/F |
|---------------|--------|-----------------|----------------|------------------|----------------|--------------------------------------|------------------------------|
| mm | inches | Guide Ext. (mm) | For Drill (mm) | For Drill Letter | | | |
| M6 | 1/4 | 6 | 3.2 | A | 3.2 | - | 10 |
| M7 | 9/32 | 8 | | B | | | |
| M8 | 5/16 | 9 | | C | | | |
| M9 | 3/8 | 10 | 4.8 | D | 4.8 | 4.8 | 11 |
| M10 | 7/16 | | | E | | | |
| M12 | 1/2 | 11 | 4.8 | F | 4.8 | 6.4 | 13 |
| M14 | 9/16 | 12 | | G | | | |
| M16 | 5/8 | 13 | | H | | | |
| | | 14 | 6.4 | I | 6.4 | 8.0 | 14 |
| | | 14 | | J | | | |
| | | | | K | 6.4 | 8.7 | 17 |

"EASY OUT" STUD EXTRACTOR SET



Art. No. 695.684353

- For removing broken-off studs or bolts
- Durable chrome vanadium forged steel construction
- Convenient plastic storage case

Applications:

- Determine size of the fastener that needs to be extracted
- Select stud extractor 1-5 and the recommended drill size
- Drill hole in the centre of the fastener, then turn extractor counter clock wise into the drilled hole
- Broken stud/bolt will back out without damaging the threaded hole

| Size | For Screws | | Length | Rec. Drill Size | |
|------|------------|-------------|--------|-----------------|-------|
| | mm | inch | | mm | Gauge |
| 1 | M3-6 | 1/8 - 1/4 | 50 | 1.8 | #50 |
| 2 | M6-8 | 1/4 - 5/16 | 57 | 2.6 | #38 |
| 3 | M8-11 | 5/16 - 7/16 | 64 | 3.7 | #27 |
| 4 | M11-14 | 7/16 - 9/16 | 71 | 5.5 | 7/32 |
| 5 | M14-18 | 9/16 - 3/4 | 78 | 7.0 | J' |

HONING STONE SET



Art. No. 680.10 – 10 pc. set

A set of 10 stones for precise bore sizing, deburring and surface finishing

Contents: one of each size below

Available quality: special fused alumina

Binding: ceramically bound

Color: pink

Shaft diameter: 6 mm

Specially suitable for grinding of steel

| Ø x L mm | Grit | Description acc. DIN 69170 | Grinding Wheel Head | Picture No. | Art. No. | Individual Order Qty. | P. Qty. |
|------------|------|----------------------------|---------------------|-------------|----------------|-----------------------|---------|
| 20 x 30 | 30 | ZY | Cylinder | 5 | 680.75 | 5 | 1 |
| 13 x 20 | 30 | ZY 1320 | Cylinder | 4 | 680.72 | | |
| 20 x 12 | 30 | ZY | Disc | 2 | 680.74 | | |
| 20 x 20 | 30 | KE 2020 | Conical | 7 | 680.21 | | |
| 13 x 20 | 30 | SP 1320 | Tapered | 8 | 680.41* | | |
| 10 x 13 | 46 | ZY1013 | Cylinder | 3 | 680.71* | 10 | |
| 20 x 6 | 46 | ZY 2006 | Disc | 1 | 680.73* | | |
| 20 x 25 | 30 | WK 2025 | Cylindrical Cone | 10 | 680.51* | | |
| 20 x 25 | 30 | WK 2025 | Cylindrical Round | 9 | 680.61* | | |
| 16 | 30 | KU 16 | Round | 6 | 680.31* | | |

* Available OnDemand

CARBIDE BURRS

- Carbide material offers much longer tool life compared to common tool materials
- Suitable for work on hard/exotic materials
- Crossed pattern is universally suitable for working on stainless steels, high strength steel, black iron, welding seams, hard plastics, hardened steels

Cylindrical Type



| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|--------------------|---------|
| 1/4" | 1/4" | 5/8" | 2" | 616.160616 | 1 |
| 3/8" | 1/4" | 3/4" | 2 1/2" | 616.161019 | |
| 1/2" | 1/4" | 1" | 2 3/4" | 616.112001 | |
| 1/4" | 1/8" | 1/2" | 2" | 616.114012* | |

Cylindrical Round Type



| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|---------------------|---------|
| 1/4" | 1/4" | 3/4" | 2" | 616.260616 | 1 |
| 3/8" | 1/4" | 3/4" | 2 1/2" | 616.261025 | |
| 1/2" | 1/4" | 1" | 3" | 616.212034* | |
| 1/4" | 1/8" | 1/2" | 1 3/4" | 616.214012* | |
| 3/8" | 1/4" | 3/4" | 6 3/4" | 616.238034 | |
| 1/2" | 1/4" | 1" | 2 3/4" | 616.461322†* | |

* Aluma Cut † Tapered

Ball Type



| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|-------------------|---------|
| 1/4" | 1/4" | 1/4" | 2" | 616.314014 | |
| 3/8" | 1/4" | 5/16" | 2 1/8" | 616.338038 | |
| 1/2" | 1/4" | 7/16" | 2 1/4" | 616.312012 | |

* Available OnDemand

CARBIDE BURRS



Tapered Type / Tree Shaped Radius

| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|--------------|---------|
| 1/2" | 1/4" | 1" | 2 3/4" | 616.561332 | 1 |
| 1/4" | 1/4" | 3/4" | 2" | 616.514034 | |
| 3/8" | 1/4" | 3/4" | 2 1/2" | 616.538078 | |
| 1/4" | 1/8" | 1/2" | 2" | 616.514012 * | |
| 1/2" | 1/4" | 1" | 7" | 616.512001 | |
| 3/8" | 1/4" | 3/4" | 6 3/4" | 616.538034 * | |



Conical Type/ Tree Shaped Pointed

| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|--------------|---------|
| 1/4" | 1/4" | 11/16" | 2" | 616.660616 | 1 |
| 3/8" | 1/4" | 3/4" | 2 1/2" | 616.661019 | |
| 1/8" | 1/8" | 1/2" | 1 1/2" | 616.618012 * | |
| 1/2" | 1/4" | 1" | 3" | 616.612001 | |

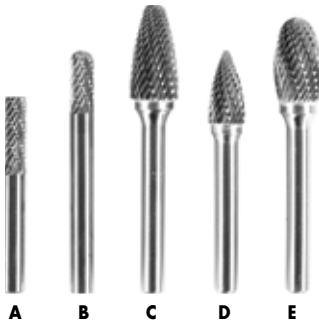


Oval Shaped Type

| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|------------|---------|
| 1/4" | 1/8" | 3/8" | 1 7/8" | 616.714716 | 1 |

* Available OnDemand

CARBIDE BURR ASSORTMENTS



Art. No. 616.105

Carbide Burrs

Contains: 5 Pieces
A: Art. No. 616.160616
B: Art. No. 616.260616
C: Art. No. 616.561332
D: Art. No. 616.661019
E: Art. No. 616.461322



Art. No. 616.205

Mini Carbide Burrs

Contains: 9 pieces with a 1/8" shank and 1/4" head
 1 x cylindrical type - 1/8", 1 x cylindrical type with teeth on end face - 1/8", 1 x inverted conical type - 1/8", 1 x ball nose cylinder - 1/8", 1 x ball type - 1/8", 1 x ball nose cylinder - 1/8", 1 x tapered type/tree shaped radius - 1/8", 1 x conical type/tree shaped pointed - 1/8", 1 x conical type/tree shaped pointed - 1/8"

Art. No. 616.305

Extended Carbide Burrs

Contains: 4 pieces with a 1/4" shank
 1 x 3/8" dia., ball nose cylinder, double cut - 6 3/4",
 1 x 3/8" dia., conical type/tree shaped pointed, double cut - 6 3/4",
 1 x 1/2" dia., tapered type/tree shaped radius, double cut - 7",
 1 x 1/2" dia., ball type, double cut - 6 1/2"



TAPPING MACHINE TAPS HSS-E

For pocket and through holes, for fabrication of metric ISO threads DIN 13 according to tolerance range 6H Outstanding features of Zebra tapping machine taps:

Highest quality:

- Cobalt alloyed basic materials
- Constant material receiving inspections
- Highest precision in production

Special geometry:

- Low wear
- Better chip removal
- More accurate thread

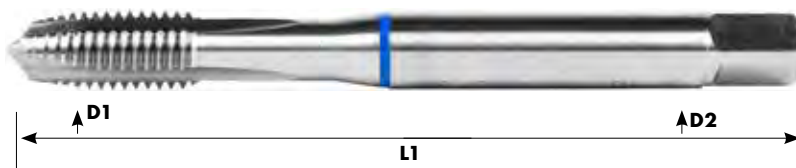
Application areas:

Unalloyed steels and tempering steels up to approx. 1000 N/mm strength, machining steels, brass, long-chipping, steel castings, aluminum above 10% Si, zinc alloy, synthetics, copper, gunmetal.

++ Good suitability + Limited suitability

| Material groups | Material Designations Examples | Cutting speed V = m/min | Speed at Ø | | | | | Blue Ring | |
|--|--|----------------------------|------------|-----------|---------|---------|---------|-----------|-------|
| | | | 3 | 5 | 8 | 12 | 18 | 653... | 653.0 |
| Unalloyed steels up to 800 N/mm ² | C10, C35, CK10, CK35, 9S20, 9SMn28, 9SMnPb36, St33-, ST60-2 | 10-15 | 1062-1592 | 637-955 | 398-597 | 295-398 | 199-299 | ++ | ++ |
| Unalloyed steels up to 1000 N/mm ² Tempering steels | C45, C60, CK45, CK60, 16MnCr5, 45S20, 60S20, 41Cr4, 36Mn5, 42CrMo4, C60W3/C135W2 | 4-10 | 425-1062 | 255-637 | 159-398 | 106-295 | 71-177 | ++ | ++ |
| Alloyed tool steels, rust and acid resistant steels | 14NiCr18, 54NiCrMoS6, X10Cr13, X100CrMoV51 | 4-8 | 425-849 | 255-509 | 159-318 | 106-212 | 71-142 | + | + |
| Steel casting, annealed cast iron, nodular graphite iron | GS-38, GS-45, GS-70, GTW35, GTW60, GTS35, GTS70, GGG38, GGG45, GGG70 | 6-12 | 637-1274 | 382-764 | 239-478 | 159-318 | 106-212 | ++ | ++ |
| Copper | F-Cu, SF-Cu | 15-20 | 1592-2123 | 955-1274 | 597-796 | 398-531 | 299-354 | + | + |
| Electrolytic copper | KE-Cu, E-Cu | 8-15 | 849-1592 | 509-955 | 318-597 | 212-398 | 142-299 | | + |
| Brass, long-chipping | CuZn37 (Ms63), CuZn10, CuZn30 | 15-20 | 1592-2123 | 955-1274 | 597-796 | 398-531 | 299-354 | ++ | + |
| Bronze, soft, gunmetal Tin bronze | G-CuSn10Zn, CuSn8 (SnBz8), G-CuSn5ZnPb(Rg5), (Rg10) | 5-12 | 531-1274 | 318-764 | 199-478 | 133-318 | 88-212 | ++ | + |
| Bronze, hard | CuAl8(AlBz8), CuAl10(AlBz10Ni), Eterna bronze, beryllium bronze | 5-10 | 531-1062 | 318-637 | 199-398 | 133-265 | 88-177 | + | |
| Al alloy < 10% | G-ALSi6Cu4, G-ALSi10Mg, Si G-ALSi5Cu1 | 18-20 | 1911-2123 | 1146-1274 | 717-796 | 478-531 | 318-354 | + | |
| Al alloy < 10% | G-ALSi12, GD-ALSi12, Si ALSi12CuNi | 14-16 | 1486-1699 | 892-1019 | 557-637 | 372-425 | 248-283 | ++ | ++ |
| Zinc alloy | GD-ZnAl4, GD-ZnAl4Cu1, GK-ZnAl4Cu3, GK-ZnAl6Cu1 | 20-25 | 2123-2654 | 1274-1592 | 796-955 | 531-663 | 354-442 | + | |

TAPPING MACHINE TAPS HSS-E

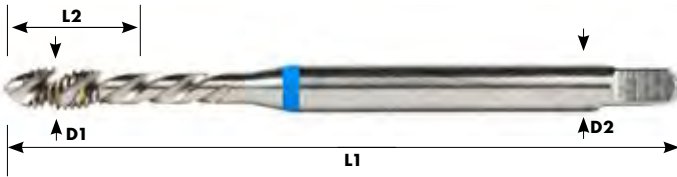


| Ø = D1 | Pitch | D2 | L1 | L2 | Square size mm | Art No. | P. Qty. |
|--------|-------|------|-----|----|----------------|---------------|---------|
| M5 | 0.8 | 6.0 | 70 | 14 | 4.9 | 653.5 | 1 |
| M6 | 1.0 | 6.0 | 80 | 16 | 4.9 | 653.6 | |
| M8 | 1.25 | 8.0 | 90 | 18 | 6.2 | 653.8 | |
| M10 | 1.5 | 10.0 | 100 | 20 | 8.0 | 653.10 | |

Through hole

| Technical Data | |
|-----------------|--|
| Surface | Bright |
| Groove | Straight grooved |
| Relief grinding | Flanks relief ground |
| Shaft | Up to M10 reinforced shaft, from M12 overrun shaft |
| Centering | Up to M5 solid tip, M6 - M10 turned tip, from M12 interior centering |
| Thread depth | M2.5 approx. 2.5 x d; M3-M10 approx. 3 x d1; from M12 approx. 3 x d1 |
| Chamfer | 4-5 turns, curling tap |

TAPPING MACHINE TAPS HSS-E



| Ø = D1 | Pitch | D2 | L1 | L2 | Square size mm | Art No. | P. Qty. |
|--------|-------|-----|----|----|----------------|---------|---------|
| M4 | 0.7 | 4.5 | 63 | 8 | 3.4 | 653.04 | 1 |
| M5 | 0.8 | 6.0 | 70 | 10 | 4.9 | 653.05 | |
| M6 | 1.0 | 6.0 | 80 | 12 | 4.9 | 653.06 | |
| M8 | 1.25 | 8.0 | 90 | 15 | 6.2 | 653.08 | |

Plug hole

| Technical Data | |
|-----------------|--|
| Surface | Bright |
| Groove | 40° right grooved |
| Relief grinding | Flanks relief ground |
| Shaft | Up to M10 reinforced shaft, from M12 overrun shaft |
| Centering | Up to M5 solid tip, M6 - M10 turned tip, from M12 interior centering |
| Thread depth | approx. 3 x d1 |
| Chamfer | short, 2-3 turns |

EUROPEAN-STYLE METRIC HAND TAPS

These hand taps are designed for a gradual multi-step tapping process. This tapping process is easier and results in less crooked threads and a more precise finish.

- **First:** This tap is for preliminary cutting of threads. It creates a partial cut, and must be followed by the Finishing tap to complete the thread cutting.
- **Finishing:** This tap is for final thread cutting and is a required step when using the First tap. It results in a fully finished thread.
- Specially designed for high speed, close tolerance tapping applications
- Can be used with a variety of ferrous and non-ferrous materials, in through or blind holes

Applications:

- Ideal for brass or cast iron fittings.
- Suitable for engine or brakes; specifically for making threads for bolts.



Assortment Hand Tap Set - 21 pcs. Art. No. 639.01

1 set of First, Second and Finishing metric coarse taps for each of M3, M4, M5, M6, M8, M10, M12.



DIN 352 HSS

Taps for metric ISO threads (metric "coarse") according to DIN 13

| Thread Ø mm | Pitch | Length | Thread length | Shank Ø | Square Shank | First Art. No. | Finishing Art. No. | P. Qty. |
|-------------|--------|--------|---------------|---------|--------------|----------------|--------------------|---------|
| M6 | 1mm | 50mm | 16mm | 6mm | 4.9mm | 640.1..6 | 640.3..6 | 1 |
| M8 | 1.25mm | 56mm | 22mm | 6mm | 4.9mm | 640.1..8 | 640.3..8 | |
| M10 | 1.5mm | 70mm | 24mm | 7mm | 5.5mm | 640.1..10 | 640.3..10 | |
| M12 | 1.75mm | 75mm | 29mm | 9mm | 7mm | 640.1..12 | 640.3..12 | |
| M14 | 2mm | 80mm | 30mm | 11mm | 9mm | 640.1..14 | 640.3..14 | |
| M16 | 2mm | 80mm | 32mm | 12mm | 9mm | 640.1..16 | 640.3..16 | |



DIN 2181 HSS

For metric ISO fine threads according to DIN 13

| Thread Ø mm | Pitch | Length | Thread length | Shank Ø | Square Shank | First Art. No. | Finishing Art. No. | P. Qty. |
|-------------|--------|--------|---------------|---------|--------------|----------------|--------------------|---------|
| M8 | 1mm | 56mm | 22mm | 6mm | 4.9mm | 642.18.1 | 642.38.1 | 1 |
| M10 | 1mm | 63mm | 20mm | 7mm | 5.5mm | 642.110.1 | 642.310.1 | |
| M10 | 1.25mm | 70mm | 24mm | 7mm | 5.5mm | 642.110.125 | 642.310.125 | |
| M12 | 1mm | 70mm | 22mm | 9mm | 7mm | 642.112.1* | 642.312.1* | |
| M12 | 1.25mm | 70mm | 22mm | 9mm | 7mm | 642.112.125 | 642.312.125 | |
| M12 | 1.5mm | 70mm | 22mm | 9mm | 7mm | 642.112.15* | 642.312.15 | |
| M14 | 1.25mm | 70mm | 22mm | 11mm | 9mm | 642.114.125 | 642.314.125 | |
| M14 | 1.5mm | 70mm | 22mm | 11mm | 9mm | 642.114.15 | 642.314.15 | |
| M16 | 1.5mm | 70mm | 22mm | 12mm | 9mm | 642.116.15* | 642.316.15 | |

* Available OnDemand

STANDARD HIGH SPEED STEEL HAND TAP



Straight Flute hand Taps

High Speed Steel Material
Bronze Oxide Coating/Finish
Chamfer: Taper = 7 -10 threads long
Plug = 3 - 5 threads long
Bottoming: 1-2 threads long
P. Qty. 1

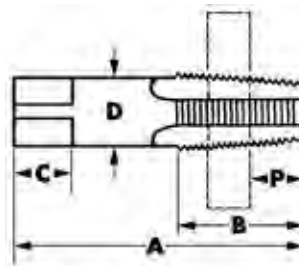
| Coarse Thread (UNC) | | | | |
|---------------------|----------|---------------|------------|---------------------|
| Type | Size | No. of Flutes | Drill size | Art. No. |
| Bottoming | 1/4-20" | 4 | 7 | 640.711420 |
| | 5/16-18" | 4 | F | 640.715618 |
| | 3/8-16" | 4 | 5/16 | 640.713816 |
| | 7/16-14" | 4 | U | 640.717614 * |
| Plug | 1/2-13" | 4 | 27/64 | 640.711213 |
| | 6-32" | 3 | 36 | 640.81632 |
| | 8-32" | 4 | 29 | 640.81832 |
| | 10-24" | 4 | 25 | 640.811024 |
| | 1/4-20" | 4 | 7 | 640.811420 |
| | 5/16-18" | 4 | F | 640.815618 |
| | 3/8-16" | 4 | 5/16 | 640.813816 |
| | 7/16-14" | 4 | U | 640.817614 |
| | 1/2-13" | 4 | 27/64 | 640.811213 |
| | 5/8-11" | 4 | 17/32 | 640.815811 |
| Taper | 3/4-10" | 4 | 21/32 | 640.813410 |
| | 1/4-20" | 4 | 7 | 640.911420 |
| | 5/16-18" | 4 | U | 640.915618 |
| | 3/8-16" | 4 | 5/16 | 640.913816 |
| | 7/16-14" | 4 | U | 640.917614 |
| | 1/2-13" | 4 | 29/64 | 640.911213 |

| Fine Thread (UNF) | | | | | |
|-------------------|----------|---------------|------------|---------------------|---------------------|
| Type | Size | No. of Flutes | Drill size | Art. No. | |
| Bottoming | 1/4-28" | 4 | 3 | 640.721428 * | |
| | 5/16-24" | 4 | I | 640.725624 * | |
| | 3/8-24" | 4 | Q | 640.723824 * | |
| | 7/16-20" | 4 | 25/64 | 640.727620 * | |
| Plug | 1/2-20" | 4 | 29/64 | 640.72220 * | |
| | 10-32" | 4 | 21 | 640.811032 | |
| | 1/4-28" | 4 | 3 | 640.821428 | |
| | 5/16-24" | 4 | I | 640.825624 * | |
| | 3/8-24" | 4 | Q | 640.823824 * | |
| | 7/16-20" | 4 | 25/64 | 640.827620 * | |
| | 5/8-18" | 4 | 37/64 | 640.825818 | |
| | 3/4-16" | 4 | 11/16 | 640.823416 | |
| | Taper | 1/4-28" | 4 | 3 | 640.921428 * |
| | | 5/16-24" | 4 | I | 640.925624 |
| 3/8-24" | | 4 | Q | 640.923824 * | |
| 7/16-20" | | 4 | 25/64 | 640.927620 | |
| | 1/2-20" | 4 | 29/64 | 640.92220 | |

* Available OnDemand

Tip: Straight Flute taps can be used for Through Holes or Blind Holes

NPT TAPER PIPE TAPS



NPT taper pipe taps made of high speed steel for tapping pipe fittings of couplings.

Features:

- High speed steel
- Bronze Oxide surface treatment for easier tapping, higher speeds and greater abrasion resistance
- Precision ground cutting surfaces for precise thread production

Technical data:

- Material: High Speed Steel
- Coating/Finish: Bronze Oxide

| Thread Dia./ Pitch | Thread | # of Flutes | Overall Length (A) | Flute Length (B) | Square Length (C) | Shank Diam. (D) | Projection (P) | Art. No. | P. Qty. |
|--------------------|--------|-------------|--------------------|------------------|-------------------|-----------------|----------------|------------------|---------|
| 1/8"-27 | NPT | 4 | 2-1/8" | 3/4" | 3/8" | 0.4375" | 0.312" | 640.71250 | 1 |
| 1/4"-18 | NPT | 4 | 2-7/16" | 1-1/16" | 7/16" | 0.5625" | 0.459" | 640.71251 | 1 |
| 3/8"-18 | NPT | 4 | 2-9/16" | 1-1/16" | 1/2" | 0.7000" | 0.454" | 640.71252 | 1 |
| 1/2"-14 | NPT | 4 | 3-1/8" | 1-3/8" | 5/8" | 0.6875" | 0.579" | 640.71253 | 1 |
| 3/4"-14 | NPT | 5 | 3-1/4" | 1-3/8" | 11/16" | 0.9063" | 0.565" | 640.71254 | 1 |

HIGH SPEED STEEL TAP



| Size | Thread | No. of Flutes | Drill size | Art. No. | P. Qty. |
|----------|--------|---------------|------------|--------------------|---------|
| 1/4-20" | NC | 2 | 7 | 641.14.20 | 1 |
| 1/4-28" | NF | 2 | 3 | 641.14.28 | |
| 5/16-18" | NC | 2 | F | 641.516.18 | |
| 5/16-24" | NF | 2 | I | 641.516.24 | |
| 3/8-16" | NC | 3 | 5/16 | 641.38.16 | |
| 3/8-24" | NF | 3 | Q | 641.38.24 | |
| 7/16-14" | NC | 3 | U | 641.716.14* | |
| 7/16-20" | NF | 3 | 25/64 | 641.716.20 | |
| 1/2-13" | NC | 3 | 27/64 | 641.12.13 | |
| 1/2-20" | NF | 3 | 29/64 | 641.12.20 | |
| 6-32" | NC | 2 | 36 | 641.6..32 | |
| 8-32" | NC | 2 | 29 | 641.8..32 | |
| 10-24" | NC | 2 | 25 | 641.10.24 | |
| 10-32" | NF | 2 | 21 | 641.10.32 | |

* Available OnDemand

Spiral Point Tap

- Bronze oxide surface treatment for easier tapping, higher speeds and greater abrasion resistance
- Precision ground cutting surfaces for precise thread production
- Prevents thread damage by forcing chips ahead of the cutting action, reducing chip loading in the flutes
- For use in through holes
- Chamfers: 3-5 threads long

MACHINE TAP HSCO TIALN (RED RING)



ZEBRA

| Thread Type x Nominal Diameter | Pitch (mm) | Thread Length (mm) | Length (mm) | Art. No. | P. Qty. |
|--------------------------------|------------|--------------------|-------------|----------------|---------|
| M14 | 2.0 | 24 | 110 | 654.014 | 1 |
| M20 | 2.5 | 30 | 140 | 654.20 | |

This long service life screw tap is designed for machining tough materials with extremely high strengths from 1000 up to 1400 N/mm².

Features:

- High end TiALN
- Cylindrical shank with square drive
- DIN 371/376
- Specifically developed for thread cutting
- Extremely high heat resistance - up to 800°C
- Multi-layer design with additional lubricant coating ensures low friction, low adhesion and optimum chip removal

Applications:

- Excavator shovels, lorry attachments, armour plating, snow ploughs, agricultural machinery, etc.
- Alloyed tempering steels, nitriding steels, tool steels, high speed steels, special alloys, Hardox, spring steels, etc.

THUNDERTAP® & THUNDERBIT® SET



Art. No. **627.640627**

18 pieces, contains 9 taps and 9 matching drills

- A high-performance drilling and tapping solution for iron, steel and stainless steel materials
- Industrial quality
- Bronze oxide surface treated taps for faster, easier thread production and greater abrasion resistance
- M-7 industrial grade steel drills for longer life and superior heat resistance
- Unique flute design for increased material removal
- 135° split-point for quick penetration and reduced "walking"

Set Contents: 6-32 NC - #36, 8-32NC - #29, 10-24NC - #25, 10-32NF - #21, 1/4-20NC - #7, 5/16-18NC - F, 3/8-16NC - 5/16, 7/16-14NC - U, 1/2-13NC - 27/64.

ASSORTMENTS



Premium Tap & Die Set
HSS M3-M12 - 44 pcs.
Art. No. 5964.065200

CONICAL COUNTERSINK SET



Art. No. 694.02101

HSS-E, 90° with diagonal hole

Features:

- One each of the countersink ranges 2-5, 5-10, 10-15, 15-20mm
- CBN (cubical boron nitride), deep ground
- For deburring 90° countersinks
- Suitable for almost all materials
- The even-running cone-envelope relief grinding results in a light, paring cut
- Even, chatter-free, burr-free & high surface quality via chip removal in the shank direction via angled drilling
- Speed table included
- Increase in service life & cutting power when used with Eco Cutting & Drilling Oil **Art. No. 893.050012**

Contents:

- One each of the countersink ranges 2-5, 5-10, 10-15, 15-20mm

| Countersink range in mm | Head Dia. in mm | Total length in mm | Shank dia in mm |
|-------------------------|-----------------|--------------------|-----------------|
| 2 - 5 | 10 | 45 | 6 |
| 5 - 10 | 14 | 48 | 8 |
| 10 - 15 | 21 | 65 | 10 |
| 15 - 20 | 28 | 85 | 12 |

| Standard speed values for Conical Countersinks with diagonal hole | | | | | |
|---|---------------------|--------------------------------------|----------------------------------|---------------------------------------|-----------------|
| Material | Non - ferrous metal | Steel sheets soft, e.g. St 4 - St 37 | Plastics, Duroplast, Thermoplast | Cast iron up to 250 N/mm ² | Aluminum alloys |
| Cutting speed m/min. | 20 | 15 | 15 - 20 | 10 | 25 |
| dia. in mm | n = rpm | n = rpm | n = rpm | n = rpm | n = rpm |
| 2 - 5 | 900 - 1200 | 600 - 900 | 900 - 1200 | 500 - 700 | 1200 - 1600 |
| 5 - 10 | 500 - 700 | 300 - 500 | 500 - 700 | 300 - 400 | 700 - 900 |
| 10 - 15 | 300 - 500 | 250 - 300 | 300 - 500 | 200 - 300 | 500 - 700 |
| 15 - 20 | 200 - 300 | 150 - 250 | 200 - 300 | 100 - 200 | 300 - 500 |

COUNTERSINK SET



Art. No. 694.01701

90°; with triple cutting edges

Features:

- One each of \varnothing 6.3, 8.3, 10.4, 12.4, 16.5, 20.5 mm
- HSS, for standard, commercial steels
- DIN 335, type C (round shaft)
- CBN (cubical boron nitride) deep ground
- Deburring and countersinking in one go
- Special grinding of the tool allows for chatter-free handling, smooth surface structure, excellent burr removal and extended tool life
- Speed table enclosed
- Extend tool life and improve cutting performance by using Würth Drilling and Cutting Oil Eco **Art. No. 893.050012**

Contents:

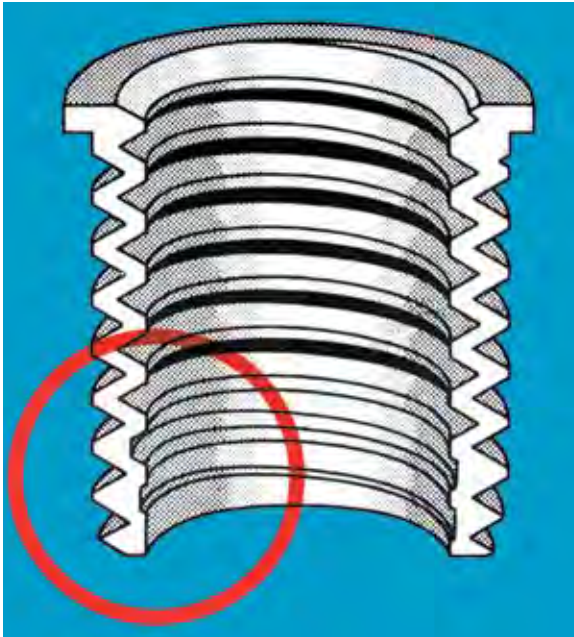
- One countersink bit each of \varnothing 6.3, 8.3, 10.4, 12.4, 16.5, 20.5 mm

Standard speed values for countersinkers

| Medium | For general construction steel 900 N/mm ² St 32- St 70 cast iron, non-ferrous metals |
|----------------------|---|
| Cutting speed m/min. | 10 - 15 |
| \varnothing mm | n = r.p.m. |
| 6.3 | 500 - 800 |
| 8.3 | 400 - 600 |
| 10.4 | 300 - 500 |
| 12.4 | 250 - 400 |
| 16.5 | 200 - 300 |
| 20.5 | 150 - 250 |

| Countersink \varnothing mm | for counter sunk screws | Total length mm | Shank \varnothing mm |
|------------------------------|-------------------------|-----------------|------------------------|
| 6.3 | M 3 | 45 | 5 |
| 8.3 | M 4 | 50 | 6 |
| 10.4 | M 5 | 50 | 6 |
| 12.4 | M 6 | 56 | 8 |
| 16.5 | M 8 | 60 | 10 |
| 20.5 | M 10 | 63 | 10 |

TIME-SERT®



For perfect thread reinforcement and renewal
as used on series production and repair



Convincing Advantages

- TIME-SERT® is based on steel instead of wire inserts. It guarantees easy installation and allows for permanent full load use.
- TIME-SERT® is thin walled due to synchronized internal and external threads. Its thin cross-section allows for installation in areas of limited space and clearance material.
- TIME-SERT® is self locking due to forming of the component threads when inserted. The bushing will not pull torque out even when inserted or removed often.
- TIME-SERT® is media tight, i.e. by mating internal and external threads the thread is sealed against water, oil, other liquids and compressed gas.
- TIME-SERT® has a collar which allows for exact positioning in the material.

Application Areas

Engine: Spark plug thread/stud thread

Aggregates: Fastenings of Servo pump/alternator/air conditioning

Transmission: Transmission cover and mountings

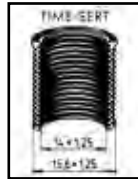
Differentials: Studs, Axles: Fastenings, mountings, Chassis, Body

- 1) TIME-SERT® insert.
- 2) Thin wall with synchronized internal and external thread.
- 3) Insertion tool position prior to insertion action.
- 4) Base material with cut thread and milled seat.
- 5) Threads of the lower section are not fully formed.
- 6) The insertion tool will form these unfinished threads and presses the TIME-SERT® insert firmly into the base material without the fear of pull out or torque out.

Recommended by Leading Car Manufacturers



BIG-SERT® - SPARK PLUG THREAD REPAIR



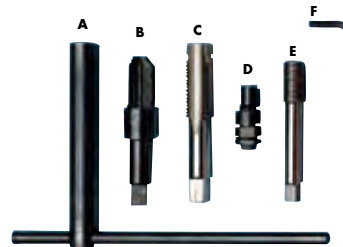
To be used if repair with TIME-SERT® is no longer possible. Threads which have been previously repaired or cut too big can be renewed with the BIG-SERT® insert.

The BIG-SERT® insert comprises a 4-fold torque lock out. The BIG-SERT® external thread is M18 x 1.5, the internal thread M 14 x 1.25. Maximum diameter for repair should be 16.3 mm or .640" respectively.

| Size mm | Thread Pitch | Washer Seat Insert Length | | Kit | | Inserts | |
|---------|--------------|---------------------------|------|----------|----------|----------|----------|
| | | Inches | mm | Art. No. | Art. No. | Art. No. | Art. No. |
| M14 | 1.25 | .370 | 9.4 | 699.1700 | 699.1710 | 699.1712 | 699.1713 |
| | | .600 | 15 | | | | |
| | | .660 | 16.8 | | | | |

The lower portion of the threads comprise grooves for 4 metal pins. When inserting the insert these pins are pressed outwards into the base material. The locking effect of these pins guarantees 100 % safety against torque-out of the insert.

BIG-SERT® Spark Plug Repair Kit, M14 x 1.25
Art. No. 699.1700



Kit tools:

- A: Wrench with T-Bar
- B: Reamer
- C: Tap
- D: Locating Tap
- E: Insertion Tool
- F: Socket Head Wrench

Note: BIG-SERT® Spark Plug Repair Kit Art. No. 699.1700, does not include inserts and must be ordered separately.

TIME-SERT® - SPARK PLUG KITS & INSERTS



Washer Seat Insert



Taper Seat Insert

Contents:

- 1 Step Tool
- 1 Wrench
- 1 Seat Cutter
- 1 Insert Driver

Note: Inserts must be ordered separately.

| Size | Thread Pitch | Washer Seat Inserts | | | Taper Seat Insert | | | Kit |
|------|--------------|---------------------|--------|-----------|-------------------|--------|----------|----------|
| | | Insert Length | | Insert | Insert Length | | Insert | |
| | | mm | Inches | | mm | Inches | | |
| 10 | 1.0 | 9.0 | .360 | 699.1180* | - | - | - | 699.1144 |
| 12 | | 9.0 | .360 | 699.1182* | - | - | - | |
| 14 | 1.25 | 15.0 | .600 | 699.1184* | - | - | - | |
| | | 7.0 | .270 | 699.1186* | - | - | - | |
| | | 8.0 | .320 | 699.1188* | - | - | - | |
| | | 9.4 | .370 | 699.1190 | - | - | - | |
| | | 11.0 | .430 | 699.1192 | - | - | - | |
| | | 15.0 | .600 | 699.1194 | 15.7 | .620 | 699.1199 | |
| | | 16.8 | .600 | 699.1196 | - | - | - | |

| Spark Plug | | | | | | |
|-------------|--------------|-------|----------|-------------|-------------|------------|
| Insert | | Drill | | Counterbore | | Tap |
| Insert (mm) | Thread Pitch | Drill | Diameter | Min Dia. | Min. Depth. | Major Dia. |
| 10 | 1.0 | Y | 0.0404 | 0.461 | 0.067 | 0.445 |
| 12 | 1.25 | 31/64 | 0.484 | 0.484 | 0.073 | 0.540 |
| 14 | | 9/16 | 0.562 | 0.562 | 0.073 | 0.619 |

* Available OnDemand

TIME-SERT® - UNIVERSAL KITS AND INSERTS - METRIC



| Replacement Parts | | | | | |
|-------------------|--------------|------------------|------------------|-----------------|-----------------|
| Tool Size | Thread Pitch | Drill | Counter Bore | Tap | Driver |
| 6 | 1.0 | | 699.5010* | | 699.9010 |
| 8 | 1.25 | 699.3020* | 699.5020* | 699.7020 | 699.9020 |
| 10 | 1.5 | 699.3030* | 699.5030* | 699.7030 | 699.9030 |
| 12 | 1.75 | - | 699.5040* | - | - |
| 14 | 1.5 | 699.3050* | - | 699.7050 | - |

| Technical Data | | | | | | |
|----------------|--------------|-------|----------|-------------|------------|------------|
| Metric | | | | | | |
| Insert | | Drill | | Counterbore | | Tap |
| Threads (mm) | Thread Pitch | Drill | Diameter | Min. Dia. | Min. Depth | Major Dia. |
| 4 | 0.7 | #19 | 0.166 | 0.226 | 0.075 | 0.194 |
| 5 | 1.0 | #8 | 0.199 | 0.279 | | 0.238 |
| 6 | | Drill | 0.246 | 0.319 | | 0.290 |
| 8 | 1.25 | L | 0.323 | 0.351 | 0.080 | 0r.330 |
| | | P | | 0.419 | | 0.369 |
| 10 | 1.00 | 13/32 | 0.406 | 0.440 | 0.085 | 0.422 |
| | | | | 0.466 | | 0.349 |
| | 0.500 | 0.463 | | | | |
| | 0.474 | 0.474 | | | | |
| | 0.542 | 0.503 | | | | |
| 12 | 1.25 | 29/64 | 0.453 | 0.552 | 0.110 | 0.516 |
| | | | | 0.560 | | 0.540 |
| | 0.595 | 0.552 | | | | |
| | 1.50 | 1/2 | 1/2 | 0.605 | | 0.567 |
| 14 | 1.50 | 37/64 | 37/64 | 0.668 | 0.130 | 0.634 |
| 16 | 1.50 | 21/32 | 0.656 | 0.743 | 0.115 | 0.713 |
| | 2.0 | | | 0.787 | | 0.741 |
| 18 | 1.50 | 23/32 | 0.718 | 0.837 | 0.125 | 0.794 |

| Metric Inserts (Shaded areas indicate inserts supplied with the kit) | | | | | |
|--|--------------|---------------|------|-------------------|------------------|
| Size (mm) | Thread Pitch | Insert Length | | Insert | |
| | | Inches | mm | Art. No. | Kit Art. No. |
| 4 | 0.7 | .240 | 6.0 | 699.1098 | 699.1003 |
| | | .400 | 10.0 | 699.1102 | 699.1002 |
| 5 | 0.8 | .370 | 9.4 | 699.1104 | 699.1004 |
| | | .470 | 12.0 | 699.1106 | |
| 6 | 1.0 | .550 | 14.0 | 699.1109* | - |
| | | .460 | 11.7 | 699.1110 | 699.1006 |
| 7 | 1.0 | .460 | 11.7 | 699.1112 | 699.1008 |
| | | .640 | 16.2 | 699.1114 | |
| 8 | 1.25 | .510 | 13.0 | 699.1115 | 699.1019 |
| | | .710 | 18.0 | 699.11151* | |
| 9 | 1.0 | .360 | 9.0 | 699.1111 | 699.1009 |
| | | .600 | 15.0 | 699.1113 | |
| 10 | 1.25 | .550 | 14.0 | 699.1116 | 699.1010 |
| | | .650 | 16.2 | 699.1118 | |
| 11 | 1.5 | .800 | 20.0 | 699.1120 | 699.1012 |
| | | .550 | 14.0 | 699.1122 | |
| 12 | 1.5 | .800 | 20.0 | 699.1124 | 699.1013 |
| | | .960 | 24.5 | 699.1126 | |
| 13 | 1.25 | .630 | 16.0 | 699.1127* | 699.1015 |
| | | .870 | 22.0 | 699.1128 | |
| 14 | 1.5 | 1.18 | 30.0 | 699.11285 | 699.1016 |
| | | .600 | 15.0 | 699.1129 | |
| 15 | 1.5 | .360 | 9.0 | 699.1130 | 699.1014 |
| | | .650 | 16.2 | 699.1131 | |
| 16 | 1.75 | .950 | 24.0 | 699.1132 | 699.1016 |
| | | .640 | 16.2 | 699.1134 | |
| 17 | 1.5 | .950 | 24.0 | 699.1136 | 699.1018 |
| | | .260 | 6.6 | 699.1137 | |
| 18 | 1.5 | .370 | 9.4 | 699.1138 | 699.1018 |
| | | .500 | 12.7 | 699.1139 | |
| 19 | 1.5 | .700 | 17.8 | 699.11392 | 699.10185 |
| | | 1.100 | 28.0 | 699.11393 | |
| 20 | 2.0 | .500 | 12.7 | 699.11396 | 699.10185 |
| | | .945 | 24 | 699.1401 | |
| 21 | 1.5 | .720 | 18.3 | - | 699.10187 |

* Available OnDemand

TIME-SERT® - UNIVERSAL KITS AND INSERTS - STANDARD



| Technical Data: Imperial UNIC and UNF | | | | | | |
|---------------------------------------|--------------|-------|----------|--------------|-------------|------------|
| Insert | | Drill | | Counter Bore | | Tap |
| Thread | Thread Pitch | Drill | Diameter | Min. Dia. | Min. Depth. | Major Dia. |
| #6 | 32 | #26 | 0.147 | 0.218 | 0.070 | 0.182 |
| #8 | 32 | #17 | 0.173 | 0.241 | 0.065 | 0.208 |
| #10 | 24 | 13/64 | 0.203 | 0.288 | 0.075 | 0.247 |
| | 32 | | | 0.274 | | 0.234 |
| 1/4 | 20 | 17/64 | 0.265 | 0.352 | 0.075 | 0.319 |
| | 28 | G | 0.216 | 0.340 | | 0.300 |
| 5/16 | 18 | 21/64 | 0.328 | 0.430 | 0.085 | 0.388 |
| | 24 | P | 0.323 | 0.410 | 0.080 | 0.368 |
| 3/8 | 16 | X | 0.323 | 0.495 | 0.085 | 0.460 |
| | 24 | W | 0.386 | 0.473 | 0.080 | 0.432 |
| 7/16 | 14 | 29/64 | 0.453 | 0.571 | 0.110 | 0.534 |
| | 20 | | | 0.547 | 0.085 | 0.506 |
| 1/2 | 13 | 33/64 | 0.515 | 0.648 | 0.110 | 0.604 |
| | 20 | | | 0.610 | 0.085 | 0.569 |
| 9/16 | 12 | 19/32 | 0.593 | 0.711 | 0.130 | 0.675 |
| | 18 | 37/64 | 0.578 | 0.668 | 0.110 | 0.638 |
| 5/8 | 11 | 21/32 | 0.656 | 0.787 | 0.135 | 0.748 |
| | 18 | 41/64 | 0.640 | 0.740 | 0.110 | 0.701 |
| 3/4 | 10 | 25/32 | 0.765 | 0.953 | 0.135 | 0.885 |

| Replacement Parts | | | | | |
|-------------------|--------------|-----------|--------------|-----------|-----------|
| Tool Size | Thread Pitch | Drill | Counter Bore | Tap | Driver |
| 1/4 | 20 | 699.2010* | 699.4010* | 699.6010* | - |
| 5/16 | 18 | 699.2020* | 699.4020 | 699.6020 | 699.8020 |
| 3/8 | 16 | 699.2030* | 699.4030 | 699.6030 | |
| 7/16 | 14 | - | 699.4040* | 699.6040* | 699.8040* |
| 1/2 | 13 | - | - | 699.6050* | 699.8050 |

| Standard Inserts (Shaded areas indicate inserts supplied with the kit) | | | | | |
|--|------------------|---------------|------|-----------------|--------------|
| Size | Threads per Inch | Insert Length | | Insert Art. No. | Kit Art. No. |
| | | Inches | mm | | |
| #8 | 32 | .250 | 6.3 | - | - |
| #10 | 24 | .370 | 9.4 | 699.1605* | - |
| 1/4 | 20 | .380 | 9.4 | 699.1607 | 699.1506 |
| | | .500 | 12.7 | 699.1608 | |
| 1/4 | 28 | .380 | 9.4 | 699.1609* | - |
| | | .450 | 11.4 | 699.1611 | 699.1508 |
| 5/16 | 18 | .620 | 15.7 | 699.1612 | |
| | | .520 | 11.4 | 699.1613* | |
| 5/16 | 24 | .620 | 15.7 | 699.1614* | 699.1510 |
| | | .520 | 13.2 | 699.1615 | |
| 3/8 | 16 | .620 | 15.7 | 699.1616 | 699.1511 |
| | | .750 | 19.0 | 699.1617 | |
| 3/8 | 24 | .520 | 13.2 | 699.1618 | 699.1512 |
| | | .600 | 15.2 | 699.1620 | |
| 7/16 | 14 | .870 | 22.0 | 699.1621 | 699.1513 |
| | | .600 | 15.2 | 699.1622* | |
| 7/16 | 20 | .650 | 16.5 | 699.1623 | 699.1514 |
| | | 1.000 | 25.4 | 699.1624 | |
| 1/2 | 13 | .650 | 16.5 | 699.1626 | 699.1516 |
| | | .850 | 21.6 | 699.1627 | |
| 5/8 | 18 | .850 | 21.6 | - | 699.1518 |

* Available OnDemand

MASTER SETS



Art. No. 964.9617

Thread sizes: M5 / M6 / M8 / M10 / M12

- Metric coarse thread
- Inserts and tools for 5 sizes with 2 different lengths of inserts

| Thread Ø x pitch x length, mm | |
|-------------------------------|-------------------|
| M5 x 0.8 x 7.6 | M8 x 1.25 x 16.2 |
| M5 x 0.8 x 10.0 | M10 x 1.5 x 14.0 |
| M6 x 1.0 x 9.4 | M10 x 1.5 x 20.0 |
| M6 x 1.0 x 12.0 | M12 x 1.75 x 16.2 |
| M8 x 1.25 x 11.7 | M12 x 1.75 x 24.0 |



Art. No. 699.0100

Thread sizes: 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13

- Inch coarse thread
- Each kit includes 5 complete tool kits with 20 inserts per kit (10 long and 10 short) for a total of 100 inserts

OEM TIME-SERT® THREAD REPAIR KITS



Art. No. 699.5553

Ford Triton Spark Plug Kit

Insert size: M14 x 1.25 x 16.8 mm

Replacement inserts:

Art. No. 699.1800

Contains: 1 wrench, 1 reamer, 1 tap, 1 driver, 1 setting tool,

1 hex key 3/16, 1 hex key 1/8, 1 sealer, 5 Triton inserts.

- 1.9/3.8/4.6/5.4/6.8 litre 2 valve or 4 valve heads

Note: Not recommended for holes larger than .660" or 16.8 mm



Art. No. 699.2200

Toyota Head Bolt Repair Kit

Insert size: M11 x 1.50 x 30mm

Replacement inserts:

Art. No. 699.11285

- Universal head bolt repair for Toyota
- Coredrill - 7-1/2" OAL
- Tap - 6" OAL
- Driver - 6" OAL

SABRE SAW BLADES

- *** High performance saw blade for extreme applications, high cutting rates and long service life
- ** Excellent saw blade for heavy duty use
- * Good standard saw blade for conventional applications

Important note

Cooling using Würth Cutting Oil,

Art. No. 893.050004, extends the service life of metal sabre saw blades.

With stainless steel sabre saw blades, cool, reduce number of strokes and switch off pendulum.



1/2" Universal shaft to fit in sabre, Recipro and Tiger saws manufactured by Würth, Atlas Copco, Black & Decker, Bosch, DeWalt/Elu, Fein, Flex,

Hitachi, Holz-Her, Makita, Metabo, Millers-Falls, Milwaukee, Rems, Ridgid, Rockwell, Roller and Skil

Recommended area of application for metal blades:

| Teeth spacing (in mm) | |
|-----------------------|---|
| 1.0 | Metals, sheet metal, pipes and profiles <1.5mm |
| 1.4 | Metals, sheet metal, pipes and profiles < 3.0mm |
| 1.8 | Metals, sheet metal, pipes and profiles 3-8mm |
| 1.8-2.6 | Metals, sheet metal, pipes and profiles 3-10mm |
| 2.9-3.2 | Metals, pipes and profiles 4-12mm |

Special blades for special areas of application



Heavy Duty for solid, thick workpieces of 3-10 mm. Ideal for more demanding applications, e.g. thick metal sheets and pipes.



Demolition for demolition and rescue work, material thickness 4-12 mm. Ideal for working with a pipe bracket. A right-angled cut is ensured by the extremely thick blade thickness of 1.6 mm.



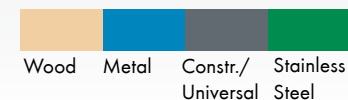
Multi Blade with progressive tooth pitch for thin and thick materials for particularly fast cutting.

Colour Code System:

- Using the four very different colours you will always find the right sabre saw blade for your application

Star System:

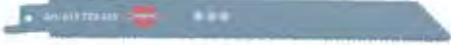




- Three application-optimized quality stages
- Exactly the right strip saw blade for every application
- Optimized combination of material, tooth spacing and saw blade
- Outstanding cutting results



SABRE SAW BLADE INFORMATION

| Material | Quality | Art. No. | Pack Qty. | Image | Diagram | | |
|----------|---------|------------|-----------|-------|--------------------------------|---------------------------------|-----------------|
| | | | | | Teeth spacing in mm and inches | Overall length in mm and inches | Thickness in mm |
| Wood | *** | 615.815030 | 1=5 | | 3.6-5.1 | 150 6" | 1.25 |
| | | 615.820340 | 1=5 | | 2-4 | 200 8" | 1.25 |
| | ** | 608.03022 | 1=5 | | 4.0 6 tpi | 150 6" | 1.25 |
| | | 615.830040 | 1=5 | | 3.6/5.1 5-7 tpi | 305 12" | 1.25 |
| Metal | *** | 615.915029 | 1=5 | | 2.5/3.2 8/10 tpi | 150 6" | 1.6 |
| | | 615.920314 | 1=5 | | 1.4 18 tpi | 200 8" | 1.25 |
| | | 615.920326 | 1=5 | | 1.8/2.6 10/14 tpi | 200 8" | 1.25 |
| | | 615.922829 | 1=5 | | 2.5/3.2 8/10 tpi | 228 9" | 1.6 |
| | ** | 615.910010 | 1=5 | | 1.0 24 tpi | 100 4" | 0.9 |
| | | 615.915010 | 1=5 | | 1.0 24 tpi | 150 6" | 0.9 |
| | | 615.915014 | 1=5 | | 1.4 18 tpi | 150 6" | 0.9 |
| | | 615.915026 | 1=5 | | 1.8/2.6 10/14 tpi | 150 6" | 0.9 |
| | | 615.922814 | 1=5 | | 1.4 18 tpi | 228 9" | 0.9 |
| | | 615.922826 | 1=5 | | 1.8/2.6 10/14 tpi | 228 9" | 0.9 |
| | | 615.930526 | 1=5 | | 1.8/2.6 10/14 tpi | 305 12" | 0.9 |

SABRE SAW BLADE INFORMATION

| Material | Quality | Art. No. | Pack Qty. | | Tooth spacing in mm and inches | Overall length in mm and inches | Thickness in mm |
|-----------------|---------|------------|-----------|--|--------------------------------|---------------------------------|-----------------|
| Construction | *** | 615.720325 | 1=5 |  | 2.54 10 tpi | 200 8" | 0.9 |
| | | 615.720332 | 1=5 |  | 2.1-3.2 8-12 tpi | 200 8" | 1.25 |
| | | 615.722842 | 1=5 |  | 4.3 6 tpi | 150 9" | 1.6 |
| | | 615.730585 | 1=2 |  | 8.5 3 tpi | 305 12" | 1.5 |
| Stainless Steel | *** | 615.911614 | 1=3 |  | 1.4 18 tpi | 228 4.5" | 1.25 |

| Art. No. | Bosch | Berner | BTI | De Walt/ Elu | D + N | Hitachi (Eur.) | Lenox | Makita | Metabo | Milwaukee | Morse | Wilpu |
|------------|-----------|-------------------|--------------|----------------|----------|----------------|-------------|--------|--------|-----------|-----------|------------|
| 608.03022 | S 644 D | - | - | 35406 | - | 750 053 | - | 05000 | 31473 | 1064 | - | 3020/150 |
| 615.720325 | S 1022 HF | - | - | - | 11 10 24 | - | - | - | - | - | - | - |
| 615.720332 | S 1012 VF | - | - | - | - | - | - | - | - | - | - | - |
| 615.722842 | S 1110 DF | - | - | - | - | - | - | - | - | - | - | - |
| 615.730585 | S 1241 HM | - | R-HM 225/85 | - | 11 20 06 | - | - | 05050 | 31146 | - | RTCT 1203 | 3041/300HM |
| 615.815030 | S 611 VF | R-HK 3-5/150 G KU | - | DW 4802 | 11 22 70 | - | 656 R | - | - | - | - | - |
| 615.820340 | S 2345 X | Protec Bi HK | Tornado R-H | - | 11 20 55 | - | - | - | - | - | - | - |
| 615.910010 | S 522 AF | R-HK 4.0/305 G | SR-H 300/42 | DW 4804 35440 | 11 22 72 | 750 054 | 156 R | - | - | 5037/3037 | RB 125006 | 3021/300bi |
| 615.911614 | S 518 EHM | - | - | - | - | - | - | - | - | - | - | - |
| 615.915010 | S 922 AF | - | R-M 150/10 | DW 4813 | 11 10 21 | 750 066 | 624 R | 04905 | 31453 | 5186 | RB 624 | 3015/150 |
| 615.915014 | S 922 EF | - | R-M 150/14 | DW 4811 35431 | 11 10 20 | 983 6027Z | 618 R | 04880 | 31454 | 5184 | RB 618 | 3014/150 |
| 615.915026 | S 922 VF | - | R-M 150/1824 | DW 4806B 35423 | 11 10 22 | - | 610 R | - | 31492 | - | RB 1010 | 1014 C/150 |
| 615.915029 | S 920 CF | R protec S 150 | Mammut R-M | - | - | - | - | - | - | - | - | 3001/150 |
| 615.920314 | S 1025 EF | - | - | - | - | - | 6518 R (6") | - | - | - | - | - |
| 615.920326 | S 1025 VF | - | - | - | - | - | 650 R (6") | - | - | - | - | - |
| 615.922814 | S 1122 EF | - | R-M 200/14 | - | 11 10 26 | 750 063 | 818 R | - | 31493 | 5188 | RB 818 | 3014/250 |
| 615.922826 | S 1122 VF | - | R-M 200/1824 | - | 11 10 35 | - | - | - | 31495 | - | - | 1014 C/225 |
| 615.922829 | S 1020 CF | R protec S 230 | Mammut R-M | - | - | - | - | - | - | - | - | 3001/200 |
| 615.93052 | S 1222 VF | - | - | - | - | - | 110 R | - | - | - | - | - |

SABRE SAW BLADE INFORMATION

| | | <ul style="list-style-type: none"> ● Particularly well suited ○ Suitable | Hardwood, softwood | Green wood | Chip boards | Fiber boards with synthetic coating | Plywood | Glued wood | Wood with nails | Wood with metal | Window construction | Thin sheet metal | Thick sheet metal | Sheet metal profiles and pipes | Metal profiles and pipes | Stainless steel, sheet metal and profiles |
|--------------|-------------------------|--|--------------------|------------|-------------|-------------------------------------|---------|------------|-----------------|-----------------|---------------------|------------------|-------------------|--------------------------------|--------------------------|---|
| | | Art. No. | | | | | | | | | | | | | | |
| Wood | *** | 615.815030 | ○ | | ○ | | ○ | | | ● | ● | | | | | |
| | | 615.820340 ^A | ● | | ● | ● | ● | ● | | | | | | | | |
| | ** | 608.03022 | ● | | ● | ● | ● | | | | | | | | | |
| | | 615.830040 | ● | | ● | | ● | | ● | | | | | | | |
| Metal | *** | 615.915029 | | | | | | | | | | | ● | ● | ● | |
| | | 615.920314 | | | | | | | | | | ● | ○ | ● | ○ | |
| | | 615.920326 | | | | | | | | | | | ● | ● | ● | |
| | | 615.922829 | | | | | | | | | | | ● | | ● | |
| | *** | 615.910010 | | | | | | | | | | ● | ● | ● | ● | |
| | | 615.915010 ^B | | | | | | | | | | ● | | ● | | |
| | | 615.915014 | | | | | | | | | | ● | ● | ● | ● | |
| | ** | 615.915026 | | | | | | | | ● | | | ● | | ● | |
| | | 615.922814 ^C | | | | | | | | | | | ● | ● | ● | ● |
| | | 615.922826 ^D | | | | | | | | | ● | | ● | | ● | |
| | 615.930526 ^E | | | | | | | | | ● | | ● | ● | ● | ● | |
| Construction | ** | 615.715242 | | | | | | | | | | | | | | |
| | *** | 615.720325 | | | | | | | ● | | | | ○ | | | |
| | | 615.720332 | ● | | | | | ● | | ● | | | | | ○ | |
| | | 615.722842 | ● | | ● | | | | | ● | | | | | | |
| | | 615.730585 | | | | | | | | | | | | | | ● |
| Stainless | *** | 615.911614 | | | | | | | | | | | | | | ● |
| | | 615.915126 | | | | | | | | | | | | | | |

A = with sharpened teeth




















B = longer version of 615.910010

C = longer version of 615.915014

D = longer version of 615.915026

E = longer version of 615.922826

SABRE SAW BLADE INFORMATION

| Aluminum | Non-ferrous metal | Metal pipes | Steel pipes, cast iron pipes | Sandwich material | Pallets | Porous concrete | Drywall | Fibre cement | Bricks | PVC, general synthetics | Asbestos cement, fibreglass reinforced synthetics | Straight cut | Curved cut | Plunge cut | Flexible and break-proof for flush cuts | Perpendicular cuts | Pipe vise | Fine cuts | Rough cut | Fast cut | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| | | | | | | | | | | ○ | | X | X | X | | | | | | | X |
| | | | | | | | | | | ● | | X | | X | | | | X | | | X |
| | | | | | | | | | | ● | | | X | X | | | | X | | | X |
| | | | | | | | | | | | | X | | | | | | | | | X |
| ○ | ○ | | | | | | | | | | | X | | | | X | X | | | | |
| ● | ● | | | | | | | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | X | | | | | | | | | |
| ○ | ○ | | | | | | | | | | | X | | | | X | X | | | | |
| ○ | ○ | | | | | | | | | | | X | | | | | | X | | | |
| ○ | ○ | | | | | | | | | | | X | | | | | | X | | | |
| ● | ● | | | | | | | | | | | X | | | | | | X | | | |
| ○ | ○ | | | | | | | | | | | X | | | | | | | | | |
| ● | ● | | | | | | | | | | | X | | | X | | | X | | | |
| ● | ● | | | | | | | | | | | X | | | X | | | | | | |
| | | | | | | | | | | | | X | | | X | | | | | | |
| ● | ● | | | | ● | | | | | ● | | X | | X | | | | X | | | X |
| ○ | ○ | | | | | | | | | | ○ | X | | | | | | | | | |
| | | | | ○ | | | | | | ● | ● | | | | | | | | | | |
| | | | | | | ● | | ○ | ○ | | ○ | X | | | | | | | | X | |
| | | | | | | | | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | X | | | | | | | | | |

JIG SAW BLADE INFORMATION

Special blades



Multi Blade with progressive tooth pitch for thin and thick materials for particularly fast and clean cutting.

- Superb blade for use on the construction site, as the same blade can be used for all situations
- Saves time, as no need for lengthy blade-changing operations

- *** High performance saw blade - high cutting performance and long service life
- ** High-quality jig saw blade for meeting tough requirements
- * Good standard blade for conventional applications

No matter how good and easy-cutting a jig saw blade may be, it is constantly exposed to high mechanical and thermal loads that reduce its lifespan.

With stainless steel jig saw blades, first cool, then reduce number of strokes and finally switch off pendulum.

Color Code System:

- Thanks to the four easily distinguishable colours, you will always find the right jig saw blade for your application

Star System:

- Three application-optimized quality stages
- Exactly the right jig saw blade for every application
- The perfect combination of material, tooth pitch and saw blade
- Phenomenal cutting results

| | | | |
|------|-------|-----------------------|--------------------|
| | | | |
| Wood | Metal | Constr./ Universal | Stainless Steel |

Cooling extends the service life of your Würth jig saw blades

| Material to be processed | Coolant |
|---|---|
| Mild steel, rust-free steel, non ferrous metals | Würth Cutting Oil Art. No. 893.050004 |
| Aluminum, aluminum alloys | Turpentine, paraffin, or a mixture turpentine and paraffin. |
| Cement asbestos, moulded laminate moulding materials, Plexiglas, plastics, insulation materials, rubber | Water (note: avoid all contact with electrical parts) |

| Material | Attachment | Quality | Art. No. | Pack Qty. | Image | Design | Pitch mm | Total length mm | Toothed length mm | Thickness mm |
|----------|---|---------|-------------------------|-----------|-------|------------------------------------|----------|-----------------|-------------------|--------------|
| | | | | | | | | | | |
| Wood | Single cam shaft (T-shaft) suitable for: Würth STP, AEG, Atlas copco, Bosch, Dewalt/Elu, Festool, Hilti, Hitachi, Kress, Holzher/Makita, Metabo and Skill | *** | 608.116234 | 1=5 | | HCS progressive | 2.0-3.0 | 117 | 90 | 1.35 |
| | | ** | 608.11791* | 1=5 | | HCS sharpened and set | 4.0 | 132 | 104 | 1.7 |
| | | ** | 608.11891* | 1=5 | | | 4.0 | 152 | 126 | 1.25 |
| | | ** | 608.11592 | 1=5 | | HCS sharpened and conically ground | 2.5 | 100 | 75 | 1.35 |
| | | ** | 608.11690* | 1=5 | | | 4.0 | 100 | 72 | 1.7 |
| | | ** | 608.116111 ² | 1=5 | | | 2.5 | 100 | 75 | 1.35 |
| | | * | 608.116102* | 1=5 | | HCS corrugated | 1.9-2.3 | 91 | 66 | 1.0 |
| | | * | 608.1161031* | 1=5 | | | 2.0 | 82 | 57 | 1.0 |
| | | * | 608.116099 | 1=5 | | | 3.0 | 100 | 75 | 1.25 |














JIG SAW BLADE INFORMATION

| Material | Attachment | Quality | Art. No. | Pack Qty. | | Design | Pitch mm | Total length mm | Toothed length mm | Thickness mm | | |
|-----------------|--|--------------|-------------|-----------|-------------------------|--------------------|----------|---------------------|-------------------|--------------|-----|------|
| Metal | Single cam shaft (T-shaft) suitable for: Würth STP, AEG, Atlas copco, Bosch, Dewalt/Elu, Festool, Hilti, Hitachi, Kress, Holz-her, Makita, Metabo and Skil | *** | 608.116123 | 1=5 | | HSS progressive | 1.2-2.6 | 100 | 75 | 1.0 | | |
| | | | 615.05012 | 1=5 | | Bimetal corrugated | 1.2 | 90 | 68 | 1.0 | | |
| | | | 615.05015 | 1=5 | | | 0.8 | 90 | 68 | 1.0 | | |
| | | | 615.05020 | 1=5 | | | 2.0 | 90 | 68 | 1.0 | | |
| | | ** | 608.116104 | 1=5 | | | 2.5 | 100 | 75 | 1.25 | | |
| | | | 608.116007 | 1=5 | | HSS corrugated | 0.7 | 91 | 66 | 1.0 | | |
| | | * | 608.11593 | 1=5 | | | 1.1-1.5 | 91 | 66 | 1.0 | | |
| | | | 608.116006* | 1=5 | | | 1.9-2.3 | 91 | 66 | 1.0 | | |
| | | Construction | | *** | 608.116345* | 1=5 | | Bimetal progressive | 2.4-5 | 132 | 105 | 1.25 |
| | | | | *** | 615.27540* | 1=3 | | Bimetal ground | 4.3 | 100 | 74 | 1.25 |
| | | | | *** | 615.20540* | 1=3 | | | 4.3 | 117 | 106 | 1.25 |
| | | | | ** | 615.09025 | 1=5 | | Bimetal set | 2.5 | 117 | 90 | 1.0 |
| | | | | * | 608.116008A* | 1=5 | | HSS set | 3.0 | 100 | 75 | 1.0 |
| | | | | * | 608.116009 ¹ | 1=5 | | | 3.0 | 100 | 75 | 1.0 |
| Stainless Steel | | *** | 615.25010 | 1=3 | | HM ground | 1.0 | 82 | 57 | 1.0 | | |
| | | *** | 615.25014 | 1=3 | | | 1.4 | 82 | 57 | 1.0 | | |

* Available OnDemand

1 = specially for scroll saws; A = special blade for aluminum

JIG SAW BLADE INFORMATION

| | | <ul style="list-style-type: none"> ● Particularly well suited ○ Suitable | Hardwood, soft-wood | Chipboard panels | Plastic-laminated chipboard panels | Plywood | Bonded wood | Wood with nails | Laminate | Thin metal sheets | Thick metal sheets | Stainless steel, metal sheets and metal profiles | Aluminum | Non-ferrous metals | Steel and cast iron pipes | |
|--------------|-----|--|---|---|---|---|--|---|---|---|---|---|---|---|---|---|
| | | Art. No. |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| Wood | *** | 608.116234 | ● | ○ | ○ | ● | ● | | | | | | | | | |
| | | 608.11690 | ● | ○ | | | ● | | | | | | | | | |
| | *** | 608.116111 | ○ | | | ● | ○ | | | | | | | | | |
| | | 608.11791 | ● | ● | | ● | ● | | | | | | | | | |
| | | 608.11891 | ● | | | ● | ● | | | | | | | | | |
| | | 608.116099 | ● | ○ | | ● | | | | | | | | | | |
| | * | 608.116102 | ○ | ○ | | ● | ○ | | | | | | | | | |
| | | 608.116103 | ● | ○ | | ● | | | | | | | | | | |
| Metal | *** | 608.116123 | | | | | | | | ● | ● | ○ | ● | ● | | |
| | | 615.05012 | | | | | | | | ● | | | ○ | ○ | | |
| | ** | 615.05015 | | | | | | | | ● | | | | ● | | |
| | | 615.05020 | | | | | | | | | ● | | ○ | ○ | | |
| | | 608.11593 | | | | | | | | ● | | | ○ | ○ | | |
| | * | 608.116006 | | | | | | | | | ● | | ○ | ○ | | |
| | | 608.116007 | | | | | | | | ● | | | ○ | ● | | |
| Construction | | 608.116345 | ○ | | | | | ● | | ● | ● | | ○ | ○ | | |
| | *** | 608.11595 | | | | | | | | | | | | | | ○ |
| | | 615.20540 ^A | | | | | | | | | | | | | | |
| | | 615.27540 | | | | | | | | | | | | | | |
| | ** | 615.09025 | ● | | | | | ● | | | ○ | | ○ | ● | | |
| | * | 608.116008 | | | | | | | | | ○ | | ● | ● | | |
| | | 608.116009 | | | | | | | | | | | ○ | ● | | |
| Stainless | *** | 615.25010 | | | | | | | | | | ● | | | | |
| | | 615.25014 | | | | | | | | | | ● | | | | |

A= conical and finer version of 615.27540

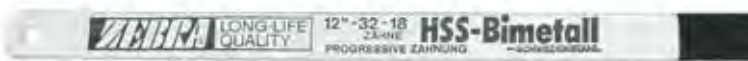
JIG SAW BLADE INFORMATION

| Sandwich material | Drywall | Fibre cement | PVC, general plastics | Plexiglas | Asbestos cement, fibreglass reinforced plastics | Corian | Brick, glass, ceramic | Insulating material (polystyrene) | Straight cut | Curved cut | Thick material | Thin material | Fine cut | Coarse cut | Right-angled cut | Fast cut | Bi-Metal |
|-------------------|---------|--------------|-----------------------|-----------|---|--------|-----------------------|-----------------------------------|--------------|------------|----------------|---------------|----------|------------|------------------|----------|----------|
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | X | | X | X | X | | | X | |
| | | | ○ | | | | | | X | | X | | X | | X | | |
| | | | | | | | | | X | | | | X | | | | |
| | | | | | | | | | X | | X | | | X | X | X | |
| | | | | | | | | | X | | X | | | X | | X | |
| | | | ● | | | | | | X | | X | | | X | | X | |
| | | | | ● | | | | | X | | | | | X | | | |
| | | | ○ | ○ | | | | | | X | | | | | | | |
| | | | | | | | | | X | | X | X | | | | X | |
| | | | | ○ | | | | | X | | | X | | | | | X |
| | | | | ○ | | | | | X | | X | | | | | | X |
| | | | | ○ | | | | | | | | | | | | | |
| | | | | | | | | | X | | X | | | | | | |
| | | | ○ | | | | | | X | | X | X | | | | X | X |
| | | | | | ● | | ● | | X | | | | | | | | |
| | ● | ● | | | ● | | | | X | | X | | | | | | |
| | ● | ● | | | ● | | | | X | | X | | | | | | |
| | | | ○ | | | | | | X | | X | | | | | X | X |
| | | | ● | | ○ | | | | X | | X | | | | | X | |
| | | | ● | | ○ | | | | | X | X | | | | | | |
| | | | | | | | | | X | | | X | | | | | |
| | | | | | | | | | X | | | | | | | | |

BI-METAL HACKSAW BLADES



| Material thickness | No. of teeth | Length (mm) | Width (mm) | Thickness (mm) | Art. No. | P. Qty. |
|--------------------|--------------|-------------|------------|----------------|------------|---------|
| over 2 mm | 24 | 300 | 13 | 0.65 | 603.30013 | 10 |
| up to 2 mm | 32 | | | | 603.300133 | |



| Length (mm) | Width (mm) | Thickness (mm) | Art. No. | P. Qty. |
|-------------|------------|----------------|-----------|---------|
| 300 | 13 | 0.65 | 603.30113 | 10 |

No saw blade offers higher cutting capacity and flexibility

- Bi-Metal, high-alloy high speed steel at the toothed edge, tough tool steel for the back
- Most up-to-date manufacturing techniques guarantee unsurpassed quality. Precision electron beams in a high vacuum are used to weld joints.

Standard Tooth Pattern

- High cutting capacity
- Longer service life
- Greater safety

Progressive Tooth Pattern

- High tooth pitch in the starting cut area makes it easy to begin cuts. The "fluttering" of thin materials is substantially reduced
- The low tooth pitch in the remainder of the cutting edge provides for high metal-cutting capacity.

HACKSAW FRAME



Art. No. 714.6401

For 300 mm (12") Bi-Metal Hacksaw Blades (Prefix 603)

- Suitable for cutting in the automotive, metal and construction industries
- Suitable for flush cutting due to dual mounting angles
- Aluminum frame with ergonomic grip handle
- Square steel upper tube, incorporating blade storage
- Easy change of the blades, handy, strong and durable

Note: Blades sold separately

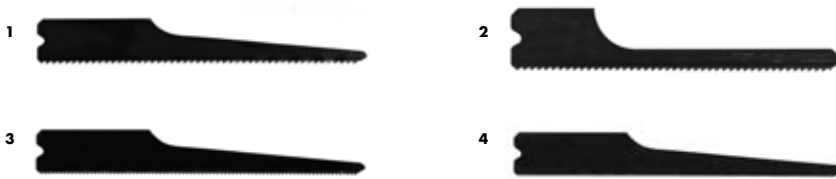
AIR SAW BLADES

High Speed and Long Life cutting blades for Automotive Body Work and sheet metal applications

Features:

- Designed for high speed cutting and long service life
- High quality bi-metal strength
- High Speed Steel teeth provide a strong, long lasting cutting edge
- Bi-metal blades bend and resist breaking and extend blade life
- Specially designed blades for use in pneumatic machine cutting applications
- Enhances overall cutting performance
- Tooth profile reduces the frictional heat that is generated during the cutting process, thus enhancing the overall blade performance

FLAT MOUNTING



| Item | Material | Min./Max. material thickness (mm) | Teeth per inch | Tooth spacing (mm) | Overall length (mm) | Working length (mm) | Art. No. | P. Qty. |
|------|--|-----------------------------------|----------------|--------------------|---------------------|---------------------|----------|---------|
| 1 | For wood, aluminum, composites and plastic | 4 - 10 | 14 | 1.8 | 90 | 77 | 696.9141 | 10 |
| 2 | For tight radius cutting in wood, aluminum, composites and plastic | | 18 | 1.4 | 66 | 53 | 696.9181 | |
| 3 | For double and triple sheet metals | 0.5 - 4 | 24 | 1 | 90 | 77 | 696.9241 | |
| 4 | For thin sheet metal and higher-strength steels | 0.5 - 1 | 32 | 0.8 | | 77 | 696.9321 | |

TIP MOUNTING



| Item | Material | Min./Max. material thickness (mm) | Teeth per inch | Tooth spacing (mm) | Overall length (mm) | Working length (mm) | Art. No. | P. Qty. |
|------|--|-----------------------------------|----------------|--------------------|---------------------|---------------------|----------|---------|
| 1 | For wood, aluminum, composites and plastic | 4 - 10 | 14 | 1.8 | 96 | 76 | 696.914 | 10 |
| 2 | For tight radius cutting in wood, aluminum, composites and plastic | | 18 | 1.4 | 72 | 53 | 696.918 | |
| 3 | For double and triple sheet metals | 0.5 - 4 | 24 | 1 | 96 | 77 | 696.924 | |
| 4 | For thin sheet metal and higher-strength steels | 0.5 - 1 | 32 | 0.8 | | 77 | 696.932 | |

STARLOCK OSCILLATING BLADES

3 dimensional blade locking system with quick change capability

3D mount (Starlock)

- High power transmission with low wear
- 3x longer service life compared to conventional mount systems
- Much better material removal
- Precise results
- High cutting speeds
- Excellent compatibility with existing mount systems



STARLOCK CARBIDE SAW BLADE



Art. No. 696.121220 1 blade

Extreme cutting performance and long tool life

- High performance saw blade for extremely demanding applications, high cutting and long tool life.

The right immersion depth every time

- Depth scale for monitoring precise immersion depth

| Technical Information | |
|--------------------------|---|
| Cutting depth | 40mm |
| Cutting width | 32mm |
| Material | Tungsten Carbide |
| Saw blade design | Single toothed |
| Adapter type | Starlock |
| Material to be processed | Steel, stainless steel, fiberglass, wood with metal |

STARLOCK BI-METAL SAW BLADE



Art. No. 696.121410 1 blade

Precise, clean cut

- The slightly curved "clean cut" single toothed blade enables a clean immersion.

The right immersion depth every time

- Depth scale for monitoring precise immersion depth

| Technical Information | |
|--------------------------|---|
| Cutting depth | 50mm |
| Cutting width | 32mm |
| Material | Bi-Metal |
| Saw blade design | Single toothed |
| Adapter type | Starlock |
| Material to be processed | Fibreglass, plaster board, glass reinforced plastics, thin sheet metal, wood with metal, softwood, hardwood, coated particle board, veneered particle board, particle board |

STARLOCK BI-METAL WIDE SAW BLADE



Art. No. 696.121411 1 blade

Precise, clean cut

- The slightly curved "clean cut" single toothed blade enables a clean immersion.

The right immersion depth every time

- Depth scale for monitoring precise immersion depth

| Technical Information | |
|--------------------------|---|
| Cutting depth | 40mm |
| Cutting width | 65mm |
| Material | Bi-Metal |
| Saw blade design | Single toothed |
| Adapter type | Starlock |
| Material to be processed | Fibreglass, plaster board, glass reinforced plastics, thin sheet metal, wood with metal, softwood, hardwood, coated particle board, veneered particle board, particle board |

STARLOCK SPATULA



Art. No. 696.121340 1 blade

For replacing silicon joints and removing carpet adhesive and paint residue

Flexible design

- Flexibility allows the spatula to be pressed into a wide variety of positions.

| Technical Information | |
|-----------------------|-------------------------|
| Cutting depth | 38mm |
| Cutting width | 52mm |
| Material | High-speed chrome steel |
| Adapter type | Starlock |

STARLOCK BI-METAL SEGMENTED SAW BLADE



Art. No. 696.121412 1 blade

Ideal for immersion cuts, work in corners and setting door frames

- The segmented blade can be positioned flush against the floor. Door frames can therefore be cut to the exact length.

Extra long life

- The saw blade can be rotated to optimize wear on the blade.

Precision work in corners

- The blade shape is designed for precise cutting in corners.

| Technical Information | |
|--------------------------|---|
| Diameter | 85mm |
| Material | Bi-Metal |
| Saw blade design | Segmented |
| Adapter type | Starlock |
| Material to be processed | Aluminum, fibreglass, glass reinforced plastics, hardwood, softwood, particle board |

STARLOCK DIAMOND SEGMENTED SAW BLADE



Art. No. 696.121330 1 blade

Ideal for removing joint mortar in damaged tiles and for separating tiles up to scratch hardness 6, fiberglass and reinforced plastics.

Extremely long service life

- Diamond coating guarantees a long service life
- The segmented blade can be rotated to optimize wear

| Technical Information | |
|--------------------------|---|
| Diameter | 85mm |
| Thickness | 2mm |
| Material | Diamond |
| Saw blade design | Segmented |
| Adapter type | Starlock |
| Material to be processed | Fibreglass, tiling, glass reinforced plastics |

STARLOCK CARBIDE GROUT BLADE



Art. No. 696.121320 1 blade

3-in-1 professional tile tool for removing wall and floor tiles and sanding tile grout.

Extremely long service life

- Cemented carbide guarantees a long service life
- The segmented blade can be rotated to optimize wear

| Technical Information | |
|--------------------------|------------------|
| Diameter | 70mm |
| Material | Tungsten Carbide |
| Adapter type | Starlock |
| Material to be processed | Tiling |

STARLOCK BI-METAL DOUBLE TOOTH SAW BLADE



Art. No. 696.121110 1 blade

For clean, tear-free separating and immersion cuts

Precise, clean cut

- The slightly curved "clean cut" double toothed blade enables a clean immersion

The right immersion depth every time

- Depth scale for monitoring precise immersion depth

| Technical Information | |
|--------------------------|---|
| Cutting depth | 50mm |
| Cutting width | 32mm |
| Material | Bi-Metal |
| Saw blade design | Double toothed |
| Adapter type | Starlock |
| Material to be processed | Softwood, hardwood, laminated panels, laminate, fiberglass, glass reinforced plastics |

STARLOCK BI-METAL DOUBLE TOOTH WIDE SAW BLADE



Art. No. 696.121111 1 blade

For clean, tear-free separating and immersion cuts

Precise, clean cut

- The slightly curved "clean cut" double toothed blade enables a clean immersion

The right immersion depth every time

- Depth scale for monitoring precise immersion depth

| Technical Information | |
|--------------------------|---|
| Cutting depth | 40mm |
| Cutting width | 65mm |
| Material | Bi-Metal |
| Saw blade design | Double toothed |
| Adapter type | Starlock |
| Material to be processed | Softwood, hardwood, laminated panels, laminate, fiberglass, glass reinforced plastics |

STARLOCK TRIANGULAR DUST EXTRACTION BACKING PAD



Art. No. 696.121150 1 piece

Use with Multi-Surface Sandpaper Triangles for sanding wood, filler, plastics, paints and more.

| Technical Information | |
|-----------------------|----------------|
| Dimensions | 90 x 90 x 90mm |
| Adapter type | Starlock |

Note: Use with Multi-Surface Sandpaper Triangles 581.220...



DIAMOND CUTTING DISC – ESSENTIAL



Construction site

Yellow label for construction sites. Can be used with hand-held saws, floor saws, stationary saw or bench saws.

Features & Advantages:

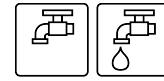
- Developed for use on construction sites
- Fan segments for better dissipation of heat and removal of dust compared to conventional segments

Applications:

- Concrete, reinforced concrete, concrete bricks, concrete pipes, interlocking paving stones, clinker bricks, clay bricks



Suitable for multiple cutting surfaces



For dry and wet cutting

| Dia. in In. | Dia. in mm | Arbour Hole in mm | Segment height in mm | Segment thickness in mm | No. of segments | Segment conn. | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|-------------------|----------------------|-------------------------|-----------------|---------------|----------|-------------------|---------|
| 12.0* | 300 | 25.4** | 10 | 3.0 | 20 | Laser | 6,400 | 666.771301 | 1 |
| 14.0* | 350 | | | 3.2 | 24 | | 5,400 | 666.771351 | |

*Max. circumferential speed 100 m/s **With driver hole

DIAMOND CUTTING DISC – CLEAN CUT



Construction site

Features:

- Versatility: ●●●●
- Service life: ●●●●
- Cutting speed: ●●●●
- Cutting quality: ●●●●



For dry and wet cutting

Highly versatile, long-lasting and cost-effective construction site disc

Features & Advantages:

- Highly versatile, long-lasting and cost-effective construction site disc
- Closed cutting edge results in a cleaner cut

Applications:

- Old concrete, exposed aggregate concrete, concrete pipes, lightly reinforced concrete, interlocking paving stones, clay bricks, clinker brick, etc.

| Dia. in In. | Dia. in mm | Hole in mm | Segment height in mm | Segment thickness in mm | Segment conn. | Max. RPM | Art. No. | Pack Qty. |
|-------------|------------|------------|----------------------|-------------------------|---------------|----------|--------------------|-----------|
| 5.0* | 125 | 22.23 | 10 | 2.0 | Sintered | 12,250 | 5527.165125 | 1 |
| 7.0* | 180 | 22.23 | 10 | 2.5 | Sintered | 8,500 | 552.7165180 | |
| 9.0* | 230 | 22.23 | 10 | 2.5 | Sintered | 6,600 | 668.765230 | |

*Max. circumferential speed 80 m/s

DIAMOND CUTTING DISC – HARD STONE



Properties

- Versatility: ●●●●
- Service life: ●●●●
- Cutting speed: ●●●●
- Cutting quality: ●●●●



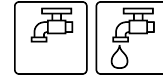
Granite

Hard material

This diamond cutting disc is specially designed for hard materials in building construction, civil engineering and related trades.

Applications:

- Granite
- Reinforced concrete
- Washed concrete
- Clinker brick
- Clay brick



For dry and wet cutting

| Dia. in In. | Dia. in mm | Arbour Hole in mm | Segment height in mm | Segment thickness in mm | No. of segments | Segment conn. | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|-------------------|----------------------|-------------------------|-----------------|---------------|----------|--------------------|---------|
| 7.0* | 180 | 22.23 | 12 | 2.6 | 14 | Laser | 8,500 | 552.6700180 | 1 |
| 9.0* | 230 | 22.23 | 12 | 2.6 | 16 | | 6,600 | 552.6700230 | |

*Max. circumferential speed 80 m/s

X-Shape

The x-shape ridges of the segmented sides extend service life considerably. They reduce lateral contact surface of the segment in the material. This results in less friction, and thus, less heat generation and strain on the segments. At the same time, the X structure increases the active cutting service, thereby distributing the load more evenly. The increased active cutting surface also enables comparatively quick cutting for a wheel that is optimized for service life.



Cutting edge of conventional turbo wheels



Cutting edge of a wheel with X-Shape

Optimum bond for hard materials

The diamond bond is specially designed for hard materials and thus ensures optimum support of the diamonds from the first cut to the last.

Smooth cutting

PTFE-filled slots, the so-called "silent holes," reduce vibrations and unpleasant running noises

Secure direction indication

The ventilation holes are arranged as arrows which are still visible and unmistakable after heavy use.

DIAMOND CUTTING DISC - VERSATILITY



Construction site

The enormously versatile and extremely fast diamond cutting disc for all construction trades. Specially developed for trades with frequently changing materials.

Features:

| | |
|------------------|------|
| Versatility: | ●●●● |
| Service life: | ●●●● |
| Cutting speed: | ●●●● |
| Cutting quality: | ●●●● |

Flexible and fast

- Perfectly suited for those who do not have to do a great deal of cutting, but where flexibility and speed are important.

Cuts virtually all materials

- Diamonds applied directly to the main blade with a special vacuum process (BSL) form an aggressive abrasive surface that cuts even the toughest materials.

Considerably cooler cutting

- Openings located directly under the segment provide for optimum cooling

Applications:

- Old concrete, washed concrete, reinforced concrete, concrete piping, sandstone, natural stone, granite, cast iron, clinker bricks, steel, stainless steel, plastics, wood, guard rails



For dry and wet cutting

Angle Grinders

| Dia. in In. | Dia. in mm | Arbour Hole in mm | Segment height in mm | Segment thickness in mm | No. of segments | Segment conn. | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|-------------------|----------------------|-------------------------|-----------------|---------------|----------|--------------------|---------|
| 4.5* | 115 | 22.23 | 6 | 2.5 | 8 | BSL | 13,300 | 552.6860115 | 1 |
| 5.0* | 125 | 22.23 | 6 | 2.5 | 10 | | 12,200 | 552.6860125 | |
| 9.0* | 180 | 22.23 | 6 | 2.8 | 16 | | 6,600 | 552.6860230 | |

*Max. circumferential speed 80 m/s

Hand-Held and Joint Cutters

| Dia. in In. | Dia. in mm | Arbour Hole in mm | Segment height in mm | Segment thickness in mm | No. of segments | Segment conn. | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|-------------------|----------------------|-------------------------|-----------------|---------------|----------|--------------------|---------|
| 12.0* | 300 | 20.0 | 6 | 3.1 | 20 | BSL | 6,400 | 552.6860300 | 1 |
| 14.0* | 350 | 20.0 | 6 | 3.1 | 24 | | 5,400 | 552.6860350 | |
| 14.0* | 350 | 25.4** | 6 | 3.1 | 24 | | 5,400 | 552.6860355 | |

*Max. circumferential speed 100 m/s **With driver hole

DIAMOND MILLING DISC



Construction site

Specialized cutting disc for removing old mortar from joints during renovation work and for milling slots for tile and floor layers, façade renovators, electrical installers, plumbers and similar trades.

Features:

| | |
|------------------|------|
| Versatility: | ●●●● |
| Service life: | ●●●● |
| Cutting speed: | ●●●● |
| Cutting quality: | ●●●● |

Efficient

- Extra wide segments remove a large amount of material in a single pass.

Extended service life

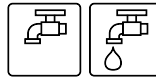
- Over 20% higher segments extend the life of the disc in comparison to conventional diamond milling discs

Optimized stability

- Welded carbide segments protect the main blade against undercut and thus effectively prevent premature breakage of the segments

Applications:

- Concrete, mortar, plaster and brick



For dry and wet cutting

Delivery Overview: For angle grinders

| Dia. in In. | Dia. in mm | Hole in mm | Segment height in mm | Segment thickness in mm | No. of segments | Segment conn. | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|------------|----------------------|-------------------------|-----------------|---------------|----------|-------------|---------|
| 5.0* | 125 | 22.23 | 9 | 8.0 | 10 | Laser | 12,200 | 552.6960128 | 1 |

*Max. circumferential speed 80 m/s

DIAMOND CUTTING DISC – 3D EXTREME



Construction site

| | |
|------------------|------|
| Versatility: | ●●●● |
| Service life: | ●●●● |
| Cutting speed: | ●●●● |
| Cutting quality: | ●●●● |

3D technology designed for hard materials that tend to cause other discs to burn.

Features:

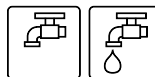
- 3x more cutting edges when compared to similar cutting discs
- 3D technology to protect against undercut on particularly abrasive materials
- ZEBRA quality suitable for all construction trades

Advantages:

- Quick, precise and long lasting blade
- Extremely low amount of friction resulting in low heat generation
- Optimized cooling with an "arrow arrangement" providing additional cooling and low vibration
- Quick and accurate for clean cut edges resulting in improved productivity

Applications:

- Old concrete, exposed aggregate concrete, reinforced concrete, concrete tiles, concrete bricks, concrete pipes, granite, marble, cast iron pipes, clinker bricks, mortar and more



For dry and wet cutting

For Angle Grinders

| Dia. in In. | Dia. in mm | Arbour Hole in mm | Segment height in mm | Segment thickness in mm | No. of segments | Segment conn. | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|-------------------|----------------------|-------------------------|-----------------|---------------|----------|-------------|---------|
| 9.0* | 230 | 22.23 | 12 | 2.6 | 15 | Laser | 6,600 | 552.6663230 | 1 |

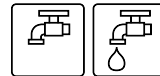
*Max. circumferential speed 80 m/s

DIAMOND CUTTING DISC – LONG LIFE & SPEED



Features:

- Versatility: ●●●●
- Service life: ●●●●
- Cutting speed: ●●●●
- Cutting quality: ●●●●



For dry and wet cutting

Construction site

This high tech diamond cutting disc has an extremely long service life, a high cutting speed and is suitable for all construction trades.

Patented Structure Diamond Technology

- For up to 70% higher cutting capacity and service life compared to the competition.
- The special even orientation of the diamonds ensures that there are always sufficient diamonds on the cutting surface, resulting in a clean, fast cut.

Less cutting resistance

- Narrower segments prevent unnecessary friction loss.
- Longer service life due to a (up to) 14 mm segment height compared to the industry standard of 10 mm. That's a 40% difference, which effectively means, 40% more cutting diamonds!

Optimized dust removal and cooling

- The fan segments feed in cooling air and transport the dust out of the cutting area. Special cooling openings with arrows serve both as additional cooling and a running direction indicator.

Smoother running conditions

- PTFE-filled slits absorb vibrations and unpleasant running noises.

Applications:

- Old concrete, washed concrete, reinforced concrete, concrete piping, interlocking stones, roofing tiles, granite, marble, cast iron pipes, clinker bricks, clay bricks

Angle Grinders/Wall Slitting Cutters

| Dia. in In. | Dia. in mm | Arbour Hole in mm | Segment height in mm | Segment thickness in mm | No. of segments | Segment conn. | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|-------------------|----------------------|-------------------------|-----------------|---------------|----------|--------------------|---------|
| 4.5* | 115 | 22.23 | 12 | 2.2 | 9 | Laser | 13,300 | 552.6660115 | 1 |
| 5.0* | 125 | 22.23 | 12 | 2.2 | 10 | | 12,200 | 552.6660125 | |
| 7.0* | 180 | 22.23 | 14 | 2.4 | 14 | | 18,500 | 552.6660180 | |

*Max. circumferential speed 80 m/s

Hand-Held and Joint Cutters

| Dia. in In. | Dia. in mm | Arbour Hole in mm | Segment height in mm | Segment thickness in mm | No. of segments | Segment conn. | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|-------------------|----------------------|-------------------------|-----------------|---------------|----------|--------------------|---------|
| 12.0* | 300 | 20.0 | 14 | 2.8 | 19 | Laser | 6,400 | 552.6660300 | 1 |
| 12.0* | 305 | 25.4** | 14 | 2.8 | 19 | | 6,400 | 552.6660305 | |
| 14.0* | 350 | 20.0 | 14 | 3.2 | 23 | | 5,400 | 552.6660350 | |
| 14.0* | 355 | 25.4** | 14 | 3.2 | 23 | | 5,400 | 552.6660355 | |

*Max. circumferential speed 100 m/s **With driver hole

ASPHALT DIAMOND CUTTING DISC



Construction site

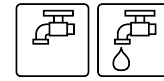
Special protective segments prevent the core of the blade against undercut.

Applications:

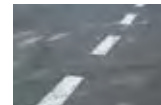
- For hand-held and floor saws
- Dry and wet cutting
- Asphalt, sand-lime brick, mortar, plaster, screed, concrete



Suitable for multiple cutting surfaces



For dry and wet cutting



Asphalt



Sand-lime Brick, Soft



Mortar, plaster, screed



Concrete, Abrasive, Fresh Concrete

| Dia. in In. | Dia. in mm | Arbour Hole in mm | Segment height in mm | Segment thickness in mm | No. of segments | Segment conn. | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|-------------------|----------------------|-------------------------|-----------------|---------------|----------|------------|---------|
| 14 | 350* | 20 | 10 | 3.2 | 21 | Laser | 5400 | 668.751350 | 1 |
| | | 25.4* | | | | | | 668.751351 | |

*Max. circumferential speed 100 m/s **With driver hole

DIAMOND CUP WHEEL – SOFT STONE



Features & Advantages:

- High removal speed
- Long service life
- Ideal for abrasive materials
- Optimal dust removal

Applications:

- Various types of concrete, limestone and other abrasive materials

| Dia. in In. | Dia. in mm | Arbour Hole (mm) | Segment height (mm) | Useable sanding surface | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|------------------|---------------------|-------------------------|----------|------------|---------|
| 5.0* | 125 | 22.23 | 5.5 | 2300mm ² | 12,250 | 666.511125 | 1 |

*Max. circumferential speed 80 m/s

DIAMOND CUP WHEEL – VERSATILITY



Features & Advantages:

- The wheel shape, number and order of segments make for a large active grinding surface area
- Long service life
- Optimal dust removal

Applications:

- Highly versatile use on concrete and stone

| Dia. in In. | Dia. (mm) | Arbour Hole (mm) | Segment height (mm) | Useable sanding surface | Max. RPM | Art. No. | P. Qty. |
|-------------|-----------|------------------|---------------------|-------------------------|----------|------------|---------|
| 5.0* | 125 | 22.23 | 6 | 3700mm ² | 12,250 | 666.521125 | 1 |

*Max. circumferential speed 80 m/s

DIAMOND CUP WHEEL – HARD STONE



For faster and more efficient work, this versatile diamond cup wheel has an extremely high removal rate and good surface finish

Faster and more efficient:

- Special shaft segment with double function: removal and finishing
- Optimum dust removal

Applications:

- Sands most concrete and stone materials

| | |
|--|------|
| Versatility (points system) | ●●●○ |
| Service life (points system) | ●●●● |
| Removal speed (points system) | ●●●● |
| Surface quality/finish (points system) | ●●●○ |

| Dia. in In. | Dia. in mm | Arbour Hole (mm) | Segment height (mm) | Useable sanding surface | Max. RPM | Art. No. | P. Qty. |
|-------------|------------|------------------|---------------------|-------------------------|----------|------------|---------|
| 5.0* | 125 | 22.23 | 5.5 | 2300mm ² | 12,250 | 666.501125 | 1 |
| 7.0* | 180 | 22.23 | 5.5 | 2760mm ² | 8,500 | 666.501180 | |

*Max. circumferential speed 80 m/s

HOOKED BLADES



Features:

- Two notch, two hole hook blade
- Made of Carbon Steel

Applications:

- Roofing shingles, felt paper, tyvek, foam board, insulation, carpeting and other building materials

Compatible with:

Würth Utility Holders 715.66013 and 715.66016



| Width of Blade | Length of Blade | Thickness of Blade | Material | Art. No. | P. Qty. |
|----------------|-----------------|--------------------|--------------|----------|---------|
| 18.7 mm | 50 mm | 0.65 mm | Carbon Steel | 715.6603 | 5 |

EXACTA KNIFE



Recommended:

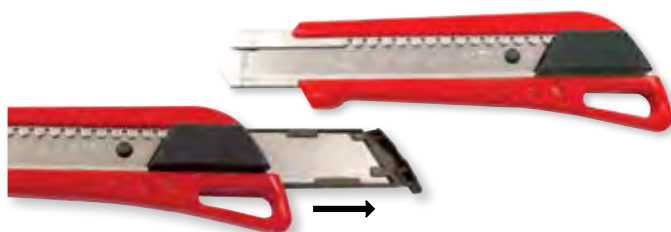
Replacement blade 18mm for Exacta knife.

Art. No. 715.6605
P. Qty. 10

Art. No. 715.66045

- Handle : impact-resistant plastic
- Catch: via wheel
- 1 break-off blade, 18mm included
- 8 point breakaway

CUTTING KNIFE



Art. No. 715.6621 – 18 mm

Features

- Handle of impact-resistant plastic and metal blade guide. High stability and precise blade guidance.
- Automatic blade locking up to pressure load of 20 kg. Convenient one-hand operation.
- Blade magazine for 2 spare blades.
- Delivery scope incl. 3 x 18 mm break-off blades.

Note: Two (2) extra blades included in magazine.

P. Qty: 1

REPLACEMENT BLADE



Art. No. 715.6605 – 18mm – P. Qty. 10

Features

- 3-corner grinding
- Ice-hardened
- Double durability
- Sharp and proper cut

CUTTING KNIFE, 9 MM WIDE



Recommended:
Replacement breakoff blade, 9 mm
Art. No. 715.6607
P. Qty: 10



Art. No. 715.6606 – 135 mm

- Handle of impact-resistant plastic with metal blade guide.
- High stability and precise blade guidance.
- Blade locks with locking bar.
- Convenient one-hand operation.
- Holding clip for breast pocket.
- Includes 1 x 9 mm break off blade.

SAFETY KNIFE



Recommended: Replacement trapezoid utility blade
Art. No. 695.106
P. Qty: 100



Art. No. 715.66013 170 mm

With bi-metal blade

Features:

- Automatic blade retraction via retracting spring.
- Blade changed in seconds without tools thanks to magnetic retainer.
- Ergonomic, non-slip two component handle.
- Integrated blade magazine for five blades.
- Includes one bi-metal trapezoidal blade.
- Flexible yet unbreakable blade under normal working conditions

Benefits:

- Minimizes risk of injury.
- Fits well and securely in your hand.
- Optimum storage of spare blades.



SELF-RETRACTING SAFETY KNIFE



Art. No. 715.66017 - P. Qty. 1

With fully automatic blade retraction after the cutting process.

Features:

- Even when the slide is activated, the blade retracts after leaving the cut material
- Non-slip and solid 3-component handle
- Tool-free blade change
- Length - 160 mm
- Material of the grip handle - Aluminium
- Pocket Safe
- Cut Safe



REPLACEMENT BLADE Art. No. 695.106

UNIVERSAL AUTO-LOAD KNIFE



Art. No. 715.66016 176 mm

With auto-load blade changing system

Features:

- Made out of durable aluminum, rubber and ABS plastic
- Dual locking mechanism of the blade
- Internal cartridge contains 10 spare blades
- Change the blade by simply retracting the slider and moving it back forward
- Weight 260g

Recommended:

Replacement trapezoid utility blade Art. No. 695.106

P. Qty: 100

2K UTILITY KNIFE



2K-Cutter 9 mm, 18 mm, 25 mm

Features:

- High quality 2-component handle and blade slide
- Extremely rugged stainless-steel blade guide
- Automatic blade locking up to a pressure load of 12 kg

| Blade Width (mm) | Total Length (mm) | Art. No. | P. Qty |
|------------------|-------------------|------------------|--------|
| 9 | 160 | 715.66274 | 1 |
| 18 | 165 | 715.66275 | |

BREAK-OFF BLADES



| Blade Width (mm) | Blade Length (mm) | Blade Thickness (mm) | Material | Art. No. | P. Qty |
|------------------|-------------------|----------------------|----------|------------------|--------|
| 9 | 80 | 0.4 | Steel | 715.66073 | 1 |
| 25 | 142 | 0.7 | | 715.66093 | |

3K UTILITY KNIFE



Art. No. 715.66277

3K-Cutter 18 mm with Clamping Screw

Features:

- Includes 1 break-off blade
- Ergonomic and non-slip 3-component handle
- Tough stainless steel blade
- Blade clamping screw

| Description | Length | Art. No. | P. Qty. |
|------------------------|--------|------------------|---------|
| Utility Knife | 170 mm | 715.66277 | 1 |
| Bare break-off blades | 110 mm | 715.6605 | 10 pk. |
| Black break-off blades | 110 mm | 715.66053 | 10 pk. |

DUAL-BLADE POCKET KNIFE



Art. No. 715.66500

Features:

- Safe to use with stud lock, keeps blades safely in place
- High quality cutting ability with replaceable trapezoidal blades
- Universal cutting rust-free knife blade
- Comes in high-quality leather pouch with belt loop
- Includes 1 trapezoidal blade





SHOP ONLINE NOW!

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05 PAINTS & PRIMERS

- 2** Spray Primers
- 3** Spray Paints
- 4** Sprayer for Spray Cans
- 8** "Perfect" Metal Surface Sprays
- 10** Paint Markers
- 10** Micro Brushes



SPRAY PAINT PRIMERS



An industrial primer for maximum rust protection and adhesion

Features:

- Improves long-term durability of finishing top coats
- Can be used with lacquer, enamel, and acrylic paints
- Provides excellent corrosion resistance
- Better coverage than conventional primers. Contains 23% solid content
- For best results, primer can be sanded lightly with a fine sandpaper
- Heat resistant to 120°C

Dry Time:

- To touch: 5 minutes
- To recoat: 20 minutes

Note: Curing time is extended with multiple and excessively thick coats

| Name | Colour | Art. No. | Content |
|-------------------------------|--------|-------------------|---------|
| High Solids Primer Light Grey | | 892.150001 | 482 g |
| High Solids Primer Red Oxide | | 892.150002 | |
| General Use Primer Light Grey | | 892.140001 | 340 g |

SELF-ETCH PRIMER



Art. No. 890.91701 340 g

- This primer etches the surface of the bare metal to replace the metal conditioning step. It provides excellent corrosion protection.
- Use on steel, aluminum, galvanized steel, zinc coated steel and fiberglass
- You can apply topcoat directly on this Self-Etching Primer
- Excellent adhesion
- Corrosion resistant
- Dries fast
- Good filling and sanding

SELF-ETCHING PRIMER



Self-etching primer adheres to bare metal to replace the metal conditioning step. Suitable for use on metal, aluminum, galvanized steel, zinc coated steel and fiberglass.

Features:

- Provides excellent adhesion on steel, aluminum and stainless steel
- Dry to the touch in under 15 minutes
- Top coat can be applied directly on top of the product

Application:

- Surface must be degreased and sanded and rust must be removed. Do not apply over newly painted surfaces.
- Shake container for 1 minute after mixing ball moves freely. Spray approximately 30 cm from the surface. Apply two thin coats, allowing 5 minutes flash time between coats. Top coat can be applied after 30 minutes.
- Once finished, turn can upside down and spray for 3 seconds to prevent clogging.

| Colour | Contents | Previous Art. No. | NEW Art. No. | P. Qty. |
|-------------|----------|-------------------|--------------------|---------|
| Black | 340 g | 8856.917000 | 8856.917010 | 1 |
| Olive Green | | 8856.917001 | 8856.917011 | |

ZINC RICH WELD THRU PRIMER



Art. No. **893.109** 464 ml

Zinc Rich Weld Thru Primer protects steel from corrosion by sacrificial or galvanic action. When applied to metal surfaces prior to MIG or spot welding, the zinc melts and fuses to the surface of the steel, reducing the formation of rust and rust creeping.

Features:

- 98 - 99% pure zinc content.
- Heat resistant up to 490°C (914°F)
- Good electrical conductivity
- Special epoxy resin for better adhesion to metal
- Adheres reliably to all metals
- Long term cathodic protection for all metallic surfaces.

Note: DO NOT apply filler after application

PREMIUM SELF-ETCHING PRIMER



Art. No. **890.91700** 340 g

A unique and convenient primer that provides excellent adhesion to bare metal, primers and top coats.

- Excellent sanding properties
- Good filling characteristics
- Strong adhesion to metals
- Superior adhesion of primer surfaces and other top coats
- Fast drying

LACQUER SPRAY



High-Quality Spray Lacquer

Excellent coverage with a lustrous finish

A remarkably versatile spray paint with the most outstanding performance characteristics available anywhere

- Has an exclusive resin base
- Can be used on both interior and exterior surfaces such as wood, metal and can be recoated anytime
- Bare metal surfaces should be primed before application
- Ideal for guide coating
- Lead free
- **Art. No's. 893.339006** and **893.351930** can also be used on wheels

| Colour | Finish | Contents | Art. No. |
|-----------------|-----------------|----------|-------------------|
| Matte Jet Black | High - Temp | 296 g | 893.359005 |
| Satin Black | Satin | 310 g | 893.349110 |
| Matte Jet Black | Matte | 300 g | 893.329005 |
| White Aluminum | High - Gloss | 462 g | 893.339006 |
| Clear | High - Gloss | 317 g | 893.351930 |
| Yellow | High - Gloss | 308 g | 893.364464 |
| Silver | Metallic Silver | 340 g | 893.339108 |
| Cast Iron | Cast Iron | 340 g | 893.379008 |

Temperature resistance for Art. No. 893.359005 is 650 °C (1,200 °F)

SPRAY PAINT - PREMIUM HIGH SOLIDS

A superior industrial spray paint when maximum performance is needed




























**Use with our Sprayer
for Spray Cans,
Art. No. 891.090**

Features:

- High solid content (35%)
- Provides twice the coverage of conventional spray paints. Up to 18 square feet. Cans contain 16oz (454g) of paint
- Does not run or sag
- Can be applied to bare metal, and inhibits rust
- Resists oil, gas, and sunlight
- Heat resistant to 150°

Application:

1. Clean and dry surface to remove dirt and grease
2. For maximum protection, the surface should be primed before painting
3. Shake can for at least 1 minute after hearing the mixing ball rattle.
4. Spray surface with steady strokes at a distance of 20-25cm from surface
5. When finished, turn can upside down and spray for 3 seconds (not for general use paint)

| Name | Finish | Colour | Art. No. | Content |
|-------------------|----------|---|-------------------|---------|
| Gloss Black | Gloss |  | 892.150003 | 453g |
| Satin Black | Satin |  | 892.150004 | |
| Flat Black | Flat |  | 892.150005 | |
| Gloss White | Gloss |  | 892.150006 | |
| Flat White | Flat |  | 892.150007 | |
| Light Grey | Gloss |  | 892.150008 | |
| Grey | Gloss |  | 892.150009 | |
| Dark Grey | Gloss |  | 892.150010 | |
| IH Red | Gloss |  | 892.150011 | |
| Safety Red | Gloss |  | 892.150012 | |
| Bright Orange | Gloss |  | 892.150013 | |
| Safety Orange | Gloss |  | 892.150014 | |
| Old CAT Yellow | Gloss |  | 892.150015 | |
| New CAT Yellow | Gloss |  | 892.150016 | |
| School Bus Yellow | Gloss |  | 892.150017 | |
| Tractor Yellow | Gloss |  | 892.150018 | |
| OSHA Yellow | Gloss |  | 892.150019 | |
| Safety Yellow | Gloss |  | 892.150020 | |
| Tractor Green | Gloss |  | 892.150021 | |
| Shamrock Green | Gloss |  | 892.150022 | |
| Safety Green | Gloss |  | 892.150023 | |
| Astro Blue | Gloss |  | 892.150024 | |
| Safety Blue | Gloss |  | 892.150026 | |
| Lift Blue | Gloss |  | 892.150025 | |
| Aluminum | Metallic |  | 892.150027 | |

Note: Above colour samples are approximations.

SPRAY PAINT CONTINUED

| General Use | | | | |
|-------------|--------|--------|------------|----------|
| Name | Finish | Colour | Art. No. | Contents |
| Gloss Black | Gloss | | 892.140002 | 340 g |
| Satin Black | Satin | | 892.140003 | |
| Flat Black | Flat | | 892.140004 | |
| Gloss White | Gloss | | 892.140005 | |
| Flat White | Flat | | 892.140006 | |
| Grey | Gloss | | 892.140007 | |

A top quality paint that provides a tough, durable finish

Features:

- 360° Spray nozzles. Works upside down
- Fast drying with good coverage
- Rust inhibiting, and resists chipping and peeling

Dry Time:

- To touch: 5 minutes
- To recoat: 30 minutes
- Note: Curing time is extended with multiple and excessively thick coats

| Engine Enamels | | | | |
|-----------------|--------|--------|------------|----------|
| Name | Finish | Colour | Art. No. | Contents |
| Universal Black | Gloss | | 892.140011 | 340 g |
| Universal Gray | Gloss | | 892.140012 | |
| Cummins Beige | Gloss | | 892.140013 | |
| Chevy Orange | Gloss | | 892.140014 | |
| Alpine Green | Gloss | | 892.140015 | |
| Ford Blue | Gloss | | 892.140016 | |
| GM Blue | Gloss | | 892.140017 | |
| Mustang Blue | Gloss | | 892.140018 | |

A fast-dry spray paint for restoring engines and brake calipers to their original factory colour

Features:

- Replicates original factory colours
- Fast drying with good coverage
- Provides corrosion protection for engines, transmissions, and other O.E.M equipment
- Resists heat up to 120°C and does not crack or peel

Dry Time:

- To touch: 5 minutes
- To recoat: 30 minutes
- Note: Curing time is extended with multiple and excessively thick coats

| High-Heat Paint | | | | |
|-----------------|--------|--------|------------|----------|
| Name | Finish | Colour | Art. No. | Contents |
| Black | Flat | | 892.140025 | 453 g |
| White | Gloss | | 892.140026 | |
| Aluminum | Gloss | | 892.140027 | |

A high temperature, heat-resistant paint

Features:

- Withstands continuous temperatures up to 650°C
- The porcelain-like bond resists peeling and blistering

Dry Time:

- To touch: 5 minutes
- For a hard cure, this product must be heated to a minimum of 205°C for two hours
- DO NOT use a primer
- Note: Curing time is extended with multiple and excessively thick coats

ANTI-SLIP PAINT



Slip-resistant paint to prevent slip and falls on wet or dry surfaces.

Features:

- Slip-resistant coating
- Contains plastic beads within an epoxy resin

Benefits:

- Applications in institutional, industrial or commercial surfaces.
- Use on metal, wood, concrete, masonry, asphalt, floors, walkways, tool handles, ramps, stairs, truck beds, grab bars, ladders or anywhere an anti-slip coating is needed.
- Easy to use aerosol format which applies a textured anti-slip coating to almost any surface.
- Ideal choice for reducing accidents due to slippery surfaces.

Tack Free: 60 minutes

Fully Cured: 24 hours

Recoat surface every 2 to 4 months, depending on wear.

Suggested Uses:

- **Automotive**
Step bumpers, running boards, truck beds, garage floors
- **Industrial**
Stairs, steps, floors, tool handles, rails, ladders
- **Marine**
Boat decks, docks, piers, grab handles
- **Construction**
Heavy equipment steps, stairs, ladders, handles
- **Home, Lawn and Garden**
Kitchen and bathroom floors, tool handles, tractor steps
- **Cargo**
Docks, trailer floors, steps, handles

| Colour | Contents | Art. No. | P. Qty. |
|--------|----------|-----------|---------|
| Black | 340 g | 890.00061 | 1 |

BUMPER AND TRIM PAINT



Art. No. 893.0190 425 g

- Trim black flexible paint for refinishing metals, plastic bumpers and flexible trim components.
- Its etching formulation eliminates the need for priming.
- Can also be applied on aluminum, stainless steel and galvanized steel.
- Etching properties.
- Very flexible.
- Dries fast.
- Matches OEM coating.
- Easy to control fan spray.

SPRAY PAINT - INVERTED TIP MARKING PAINT



Application: Locators, construction sites, excavation sites, landscaping, surveyor's markings, utility marking, golf courses, mining, etc.

Advantages:

- Fast drying
- Non-clogging
- Vivid lines
- Safe on grass
- Easy to aim with low over-spray
- Meets APWA standard colours (American Public Works Association)
- 453 g



| Technical Data | |
|-------------------------|---|
| Dry to touch | 15 mins |
| Application Temperature | +10 - 40 °C (+50 - +100 °F) |
| VOC compliant | Yes |
| Finish | Flat, non-glossy (<15 on a 60° gloss meter) |
| Resin system | V.T. Alkyd |
| Application Temperature | +10 - 40 °C (+50 - +100 °F) |
| Storage Temperature | +5 - +32 °C (+40 - +90 °F) |

| Colour | Sample | Art. No. | Qty. |
|------------------------|--------|------------|------|
| Fluorescent Orange | | 893.199301 | 1 |
| Fluorescent Red/Orange | | 893.199302 | |
| Fluorescent Pink | | 893.199303 | |

ZINC SPRAY LIGHT 96.5%



Art. No. 893.113114 324 g

Long-term protection and repair of metallic surfaces.

Features:

- Excellent corrosion protection
- Contains 96.5% of pure zinc
- Thermal stability is approximately +240 °C
- Over 100 hours of salt-spray resistance (DIN 50021 SS)
- Excellent adhesive properties on bare metal
- Excellent spot-welding properties

Areas of Application:

- For visual improvement, repair and protection against corrosion of metallic surfaces

Note: Not suitable as adhesive base for PU, MS-polymer and hybrid sealing compounds.

METAL SURFACE SPRAYS "PERFECT"



Outstanding long-time protection and optimum metal surface appearance.

- **High layer thickness in 1st spray pass.** Very safe due to optimal protection against weathering. Minimal time required, as only one work step necessary. Covers well.
- **Can be used on residual rust.** Only loose rust must be removed.
- **For variable use thanks to adjustable spray head.** Large-area and minor repairs can be carried out quickly and safely with the variable spray head.

- **High resistance to running**
- **High abrasion resistance**

Additional advantages

Zinc Spray and Zinc Spray light:

- Tested high level of corrosion protection according to DIN 50021 SS in salt spray test
Zinc Spray Light Perfect: 250 hours
Zinc Spray Perfect: 500 hours
Tested by the TÜV Rheinland Group
Optimal for spot welding

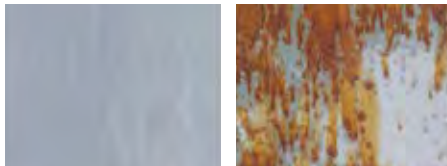
Application: For optical improvement, repair and protection against corrosion of metallic surfaces.

Corrosion protection after 240 hours of salt spray test acc. to DIN 50021 SS



Function of the variator variable spray head

Infinitely adjustable change in the output rate and the spray width by turning the variable adjustment wheel. (front view of the spraying pattern)



Zinc Spray Light Perfect

Competitor's Product

| Description | Colours | Contents | Art. No. | P. Qty. |
|--|---------|----------|-------------------|---------|
| Zinc Spray Perfect 99% | | 460 g | 893.114113 | 1/12 |
| Zinc Spray Light Perfect 98.5% | | 325 g | 893.114114 | |
| Aluminum Spray Matte Perfect | | 280 g | 893.114115 | |
| Stainless Steel Spray Perfect | | 298 g | 893.114116 | |
| Brass Spray Perfect | | 315 g | 893.114117 | |
| Copper Spray Perfect | | | 893.114118 | |
| Aluminum Silver Spray High-Gloss Perfect | | 270 g | 893.114119 | |

Note: The products Zinc Spray Perfect and Zinc Spray Light Perfect contain zinc, and therefore offer optimum, active cathodic protection against corrosion. If the surface is damaged, the zinc coating sacrifices itself (sacrificial anode) and therefore protects the metal against rust. The remaining products offer protection of the entire surface treated against rust. If the surface is damaged, the metal is not protected further. Not suitable as adhesive base for PU, MS- polymer and hybrid sealing compounds.

TECHNICAL DATA FOR METAL SURFACE SPRAYS

| Product Name | Zinc Spray Light | Zinc Spray Perfect | Zinc Spray Light Perfect | Aluminum Spray Matte Perfect | Stainless Steel Spray Perfect | Brass Spray Perfect | Copper Spray Perfect | Aluminum Silver Spray High-Gloss Perfect |
|---|---|------------------------------|---|---|---|------------------------------|------------------------------|--|
| Art. No. | 893.113114 | 893.114113 | 893.114114 | 893.114115 | 893.114116 | 893.114117 | 893.114118 | 893.114119 |
| Chemical Basis | Alkyd resin combination | Alkyd resin | Alkyd resin combination | Alkyd-acrylate combination | Alkyd resin combination | Nitri-combination resin | Nitri-combination resin | Ethyl-cellulose synthetic resin |
| Pure Zinc | 96.50% | 99% | 98.50% | - | - | - | - | - |
| Cross Cutting (DIN 53151)* | Gr0-1 | Gr0-1 | Gr0-1 | Gr0-1 | Gr0-1 | Gr0-1 | Gr0-1 | Gr0-1 |
| Salt Spray test (DIN 50021 SS) | 100 hrs | 500 hrs | 250 hrs | - | - | - | - | - |
| Dry layer thickness 1 back-and-forth motion | approx. 30 µm | approx. 40 µm | approx. 40 µm | approx. 50 µm | approx. 30 µm | approx. 25 µm | approx. 36 µm | approx. 7 µm |
| Recomm. layer thickness | 70 µm | 40 µm | 40 µm | 50 µm | 30 µm | 25 µm | 25 µm | 7 µm |
| Dust-dry (with recommended dry layer thickness) | approx. 15 min. | 5 min. | approx. 15 min. | 20-30 min. | approx. 15 min. | 5 min. | 6 min. | Approx. 15 min. |
| Completely hardened (with recommended dry layer thickness) | 10-12 hrs | 60 min. | 10-12 hrs | approx. 8 hrs | 10-12 hrs | 80 min. | 90 min. | 4-6 hrs |
| Touch-dry (with recommended dry layer thickness) | 15-20 min. | 18 min. | 15-20 min. | 45-60 min. | 20 min. | 14 min. | 17 min. | 25 mins. |
| Can be spot welded | Yes | Yes | Yes | - | - | - | - | - |
| Thermal stability | approx. +240 °C (+464 °F) | approx. +500 °C (+932 °F) | approx. +300 °C (+572 °F) | approx. +250 °C (+482 °F) | approx. +240 °C (+464 °F) | approx. +100 °C (+212 °F) | approx. +100 °C (+212 °F) | approx. +240 °C (+464 °F) |
| Minimum shelf life at +10 °C to +25 °C (+50 °F to +77 °F) in months | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Surfaces with good adhesion | Ferrous metals Galvanised surfaces Polycarbonate Polystyrene PMMA | Steel Galvanized steel | Ferrous metals Galvanised surfaces Polycarbonate Polystyrene PMMA | Metal, wood, pasteboard, Polycarbonate Polystyrene PMMA | Metal, wood, pasteboard, Polycarbonate Polystyrene PMMA | Brass, steel | Copper, steel | Metals, wood, pasteboard |
| Suitable for painting over | Condition: Preliminary testing required! | | | | | | | |

* Test to determine the adhesion of a coating on a foundation. Gr0 = Very good adhesion. Gr5 = Very bad adhesion.

PAINT MARKERS - BRITE MARK



General purpose permanent marker

- Quick drying, oil-based.
- Won't fade, chip or lose its opacity.
- Resists most work-related abuses or compounds.
- Valve action mechanism prevents paint in barrel from drying.
- Heavy-duty aluminum body with large paint capacity.
- Formula is not xylene-based.
- Drying time: 25-35 seconds.

Application:

Excellent for identifying inventory, assemblies, tools, finished products or works-in-progress. Marks metal, rubber, plastic, glass, concrete, leather, stone, wood, vinyl and more.

| Colour | Sample | Art. No. | Contents | P. Qty. |
|--------|--------|-----------|----------|---------|
| Blue | | 825.84001 | 12 ml | 1 |
| Black | | 825.84002 | | |
| White | | 825.84003 | | |
| Yellow | | 825.84004 | | |
| Orange | | 825.84005 | | |
| Red | | 825.84006 | | |
| Green | | 825.84007 | | |

PAINT MARKERS - SUDZ-OFF



Detergent removable marker for water resistant temporary writing

- Marks can be removed with detergents with a pH of 10 or higher.
- Valve action mechanism prevents paint in barrel from drying.
- No "ghosting" when paint is removed.
- Xylene-free.
- Drying time: 15-20 seconds.

Application:

For use on non-treated, non-painted and non-porous metal and glass surfaces. Excellent for quality control.

| Colour | Sample | Art. No. | Contents | P. Qty. |
|--------|--------|-----------|----------|---------|
| White | | 825.91146 | 12 mL | 1 |
| Yellow | | 825.91694 | | |

MICRO BRUSHES



For precision application of paints on vehicle body due to minor paint or chip damage

Features:

- Lint-free
- Ribbed finger grip with a flexible tip
- 100 mm length
- Easy dispensing container
- Non-drip

Benefits:

- The ultra-fine fibers are lint-free and leave no residues on the surface.
- The flexible tip allows extremely precise work, even in hard-to-access areas.
- Leaves vehicle undamaged with no residue
- Used to apply tiny amounts of oil, paint, glue, solvents, etc., accurately and controllably.
- Used in body shops, automotive repair, wood work and hobbyist shops

Application Areas:

- Paint dabbing, precision paint repair, auto detailing, cleaning, cosmetic paint touch-ups and minor paint repairs.

Great for Customers that purchase:

- Stabilant 22A (**Art No. 893.622**)
- Contact OL (**Art. No. 893.60**)
- or Dielectric Grease (**Art. No. 893.844100**)

| Art. No. | Description | Colour |
|------------|-------------------|--------|
| 890.586701 | Standard-100 pcs. | Blue |
| 890.586702 | Medium-100 pcs. | Yellow |
| 890.586703 | Fine-100 pcs. | White |

06 SAFETY & PERSONAL PROTECTION



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DISPOSABLE HAIR NET WHITE



Lightweight and breathable hair net providing complete head coverage

Technical Info:

- Material: Spunbond Polypropylene
- Color: White
- Size: 19" - 24"
- 100% Latex Free
- Packaging: 100/pk

Applications:

- Mainly used in the food industry, pharmaceutical and laboratory applications

| Size | Art. No. | P. Qty. |
|------|-------------------|---------|
| 19" | 899.023001 | 10* |
| 21" | 899.023002 | |
| 24" | 899.023003 | |

*Note: MOQ is 10 packs.
10 packs x 100pcs/pk = 1000 pcs

DISPOSABLE BEARD COVER WHITE



Soft and comfortable beard cover providing complete facial coverage.

Technical Info:

- Material: Spunbond Polypropylene
- Coverage: beards, mustaches and sideburns
- Elastic strap designed to go behind-the-head
- Color: White
- Size: 19" - 24"
- 100% Latex Free
- Packaging: 100/pk

Applications:

- Mainly used in the food industry, pharmaceutical and laboratory applications.

| Size | Art. No. | P. Qty. |
|------|-------------------|---------|
| 19" | 899.024001 | 10* |
| 21" | 899.024002 | |

*Note: MOQ is 10 packs.
10 packs x 100pcs/pk = 1000 pcs

SOLAR WELDING HELMETS



Welding helmet that offers outstanding blend of protection, performance, comfort and reliability.

Features & Benefits:

- Automatic mode for individualized and automatic adjustment of the protection level
- Ergonomically designed helmet shell: protects the forehead, crown, ears and neck perfectly.
- Lightweight and extremely comfortable
- Smoke-repellent design
- Protects against weld spatter and heat and protects during overhead welding
- Comfortable four-way adjustable headband
- Padded anti-sweat headband

Applications:

- Sticking welding (DC & AC), TIG (DC, DC Pulse), TIG AC (Pulse), MIG/MAG Pulse, Plasma Cutting/Welding.

| TECHNICAL INFORMATION | |
|--|---|
| Translucency when activated: | Protection level 9-13 |
| Dimensions: | 110 x 90 x 9 mm |
| Field of Vision: | 98 x 44 mm |
| Energy supply: | Solar cells, no battery change required |
| UV and IR protection: | Permanently ensured |
| Min./max. temperature conditions: | -10 to 55 °C |

| Description | Colour | Art. No. | P. Qty. |
|---------------------------|--------------|-------------------|---------|
| SOLAR WELDING HELMET | Flat Black | 984.700200 | 1 |
| SOLAR PLUS WELDING HELMET | Flame Design | 984.700620 | |

SOLAR WELDING HELMET ACCESSORIES



Art. No. 984.700622 - P. Qty. 1

Welding Helmet Headgear



Art. No. 984.700201 - Front - P. Qty. 5

Inner Lenses & Front Lenses

FACE SHIELD DEBRIS MASK



Art. No. 984.700

High Impact Protection against falling or flying objects and airborne debris.

Features:

- Lightweight, modern, contoured design with built-in chin protection
- Adjustable visor and headgear
- 100% Dielectric - No metal parts
- Features the patented P.R.P.L.®™ ratchet sizing adjustment system for secure fit
- Washable micro-fibre headband and comfort cell foam on the back
- Meets ANSI Z87.1-2003 (High Impact) and CSA Z94.3 Specifications

Benefits:

- Provides extreme comfort for extended use and increased wearer acceptance
- Convenient and customizable fit for the wearer
- Wide peripheral field of vision
- Easy to maintain and repair

| Additional Tools: | | | |
|--------------------|-------------------------------|----------------|--------|
| Item | Description | Art. No. | P. Qty |
| Replacement Screen | Clear, uncoated, 1.0 mm thick | 984.701 | 1 |
| Replacement Screen | Shade 5.0, 1.5 mm thick | 984.705 | |

FACE SHIELD AND HEAD GEAR



Headgear that offers the ultimate value in face protection

Features and Benefits:

- Headgear made of Noryl material for better resistance against sparks and heat
- Accommodates both primary eye protection and half-mask respirators
- Polycarbonate visor provides best material for impact, temperature, scratch and UV radiation resistance

TECHNICAL INFORMATION:

Headgear: Head-mounted headgear, pinlock adjustment, dielectric, 4" crown spark-guard, noryl material

Faceshields:

- **Clear:** Clear flat visor, 8" x 15-1/2", Polycarbonate material, 0.4" thickness
- **Green:** Green flat visor, 8" x 15-1/2", Polycarbonate material, 0.4" thickness
- **Bracket:** Cap-mounted face shield bracket, dielectric

Applications:

- Food and Beverage processing
- Maintenance distribution centers
- Mechanics
- Transportation
- Agriculture
- Construction
- Industrial



| Colour | Art. No. | P. Qty. |
|------------------------------|-------------------|---------|
| Headgear w/ Faceshield | 899.101002 | 1 |
| Headgear Replacement | 899.101003 | |
| Clear Polycarbonate Visor | 899.101004 | |
| Green Polycarbonate Visor | 899.101005 | |
| Plastic Bracket for Hard Hat | 899.101006 | |

LENS CLEANING TOWELETTES



Art. No. 899.102301

Features:

- Safely cleans eye protective gear and safety glasses.
- For glass and polycarbonate lenses.
- Pre-moistened with anti-fog cleansing fluid.
- Individually wrapped in foil sachets and conveniently packaged in a dispensing box.

Box Qty: 100 individually packaged wipes

SAFETY GLASSES "IMPEX"



Features:

- Lightweight and economical, the temples are vented on this frame for added comfort

Standards:

- Exceeds ANSI Z87.1-2003 High Impact Requirements.
- CE EN166 Certified, CAN/CSA Z94.3-07

Lenses:

- General purpose for indoor applications that require impact protection
- Offers protection from excessive glare
- Provides 99.9% protection from harmful UV-A and UV-B rays
- 100% polycarbonate lenses
- Scratch-resistant lenses

| Description | Art. No. | P. Qty. |
|-------------|------------|---------|
| Clear | 899.103125 | 1 |

ARIES BIFOCAL SAFETY GLASSES



Lightweight and comfortable bifocal safety glasses that is suitable for any environment

Features:

- Scratch-resistant, polycarbonate Lens
- Integrated nose piece
- Soft, non-slip rubber temple
- Economical wrap-around unilens
- **3 different levels of magnifying lenses**

Benefits:

- Lightweight, comfortable and flexible
- Lens insert is out user's direct line of vision
- Unilens provides full panoramic view
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- Clear lens provides impact resistance
- Available diopters: +1.5, +2.0, +2.5

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High Impact Requirements
- CE EN166 Approved

Applications:

General purpose for indoor applications that require impact protection.



| Lens | Art. No. | P. Qty |
|-------------|------------|--------|
| Clear, +1.5 | 899.100001 | 1 |
| Clear, +2.0 | 899.100002 | |
| Clear, +2.5 | 899.100003 | |

EOS SAFETY GLASSES



Lightweight safety glasses designed to better fit today's prescription eyewear

Features:

- Scratch-resistant, polycarbonate lens
- Lightweight nylon temples adjust for length and pitch
- Fits over most of today's prescription eye wear

Benefits:

- Lightweight, comfortable and flexible
- Unilens encapsulates the eye for superb protection
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- Clear lens provides impact resistance
- Grey lens offers protection from excessive glare

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High Impact Requirements
- CE EN166 Approved

Applications:

General purpose for indoor and outdoor applications that require impact protection.



| Lens Color | Art. No. | P. Qty |
|------------|------------|--------|
| Clear | 899.100004 | 1 |
| Grey | 899.100005 | |

RIGEL WELDING SAFETY GLASSES



Stylish safety glasses that are best suited for welding applications

Features:

- Scratch-resistant, polycarbonate lens
- Soft nose piece provides comfort for extended use
- Stylish dual lens
- Available in 3.0 or 5.0 IR Filter

Benefits:

- Lightweight, comfortable and flexible
- Offers a clear panoramic view without obstruction
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- 3.0 IR Filter: commonly used around welding sites or for light brazing or cutting

- 5.0 IR Filter: commonly used around welding sites or for medium to heavy cutting and medium to heavy gas welding

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High Impact Requirements

Applications:

For limited welding applications like gas welding.



| Lens Color | Art. No. | P. Qty |
|--------------------------|------------|--------|
| Green 3.0 IR Filter | 899.100007 | 1 |
| Dark Green 5.0 IR Filter | 899.100008 | |

TRENDUS SAFETY GLASSES



| Description | Art. No. | P. Qty. |
|-----------------|------------|---------|
| Clear | 899.103132 | 1 |
| Grey | 899.103133 | |
| Clear, Anti-fog | 899.103138 | |
| Amber | 899.103139 | |

Areas of application:

General purpose for indoor and outdoor applications that require impact protection.



Economical lightweight safety glasses that offer superior protection

Features:

- Hard-coated, polycarbonate Lens
- Integrated nose piece
- Economical wrap-around unilens

Benefits:

- Lightweight, comfortable and flexible
- Unilens provides full panoramic view
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology

- **Clear lens** provide impact resistance
- **W2X Anti-fog lens** keeps the inside lens from fogging up and obstructing view
- **Grey lens** offers protection from excessive glare
- **Amber lens** increases contrast in low light environments. Reduces haze from blue lighting

Standards:

- SEI CAN/CSA Z94.3-15 approved
- Exceeds ANSI Z87.1 high impact requirements
- CE EN166 approved

FISSION SAFETY GLASSES



| Description | Art. No. | P. Qty. |
|-----------------------|------------|---------|
| Grey | 899.103201 | 1 |
| Clear | 899.103200 | |
| Clear, Anti-fog | 899.103202 | |
| Indoor/Outdoor Mirror | 899.103203 | |
| Anti-Fatigue Blue | 899.103204 | |

Areas of application:

General purpose for indoor or outdoor applications that require impact, protection.



Lightweight and comfortable safety glasses that is suitable for any environment.

Features:

- Scratch-resistant, polycarbonate Lens
- Integrated nose piece
- Soft, non-slip rubber temple
- Economical wrap-around unilens

Benefits:

- Lightweight, comfortable and flexible
- Unilens provides full panoramic view
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- **Clear lens** provide impact resistance
- **W2X Anti-fog lens** keeps the inside lens from fogging up and obstructing view
- **Grey lens** offers protection from excessive glare
- **Anti-fatigue blue lens** offers protection where there is an excessive amount of yellow light. Reduces eye strain and fatigue
- **Indoor/outdoor mirror lens** provides 100% protection from harmful UV rays. Used between indoor and outdoor applications

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

SPARK SAFETY GLASSES



Lightweight safety glasses that provides superior comfort and fit!

Features:

- Scratch-resistant, polycarbonate lens
- Soft integrated nose piece
- Soft, non-slip rubber temple
- Economical wrap-around unilens

Benefits:

- Lightweight, comfortable and flexible
- Unilens provides full panoramic view
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- **Clear lens** provide impact resistance
- **Grey lens** offers protection from excessive glare
- **Anti-fatigue blue lens** offers protection where there is an excessive amount of yellow light. Reduces eye strain and fatigue
- **Amber lens** increases contrast in low light environments. Reduces haze from blue lighting

Standards:

- SEI CAN/CSA Z94.3-15 approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

| Description | Art. No. | P. Qty. |
|--------------------|------------|---------|
| Anti-Fatigue Blue | 899.103207 | 1 |
| Clear | 899.103205 | |
| Grey | 899.103206 | |
| Amber *NEW* | 899.100006 | |

Areas of application:

General purpose for indoor and outdoor applications that require impact protection.



ELEMENT SAFETY GLASSES



Premium protection and style on the lightest safety glasses available!

Features:

- Scratch-resistant, polycarbonate lens
- Soft integrated nose piece for snug fit
- Soft, non-slip rubber temple
- Economical wrap-around, half frame lens
- Sporty style—only weighs 22g!

Benefits:

- Lightweight, comfortable and flexible
- Offers a clear panoramic view without obstruction
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- **Clear lens** provide impact resistance
- **W2X Anti-fog lens** keeps the inside lens from fogging up and obstructing view
- **Indoor/outdoor mirror lens** provide 100% protection from harmful UV rays. Used between indoor and outdoor applications
- **Ice Blue mirror lens** provide protection from excessive glare and brightness in outdoor applications

Standards:

- SEI CAN/CSA Z94.3-15 approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

| Description | Art. No. | P. Qty. |
|-----------------------|------------|---------|
| Clear, Anti-Fog | 899.103210 | 1 |
| Ice Blue Mirror | 899.103211 | |
| Indoor/Outdoor Mirror | 899.103219 | |

Areas of application:

General purpose for indoor or outdoor applications that require impact, protection.



AXIS SAFETY GLASSES



| Description | Art. No. | P. Qty. |
|-----------------|------------|---------|
| Ice Blue Mirror | 899.103213 | 1 |
| Grey | 899.103212 | |

Areas of application:

General purpose for outdoor applications that require impact protection.



Axis safety glasses demonstrate strength with style and protection.

Features:

- Scratch-resistant, polycarbonate lens
- Soft, non-slip rubber temple
- Sporty dual lens style
- Wide temples

Benefits:

- Comfort-fit, rubber temples prevent eyewear from slipping to provide maximum performance
- Sporty dual lens style with wide temples provides full eye and is suitable for both working environments and sport activities
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- **Grey lens** offers protection from excessive glare
- **Ice Blue mirror lens** provides protection from excessive glare and brightness in outdoor applications

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

NOVA FOAM LINED SAFETY GLASSES



| Description | Art. No. | P. Qty. |
|-----------------|------------|---------|
| Clear, Anti-fog | 899.103218 | 1 |
| Grey, Anti-fog | 899.103220 | |

Areas of application:

General purpose for indoor and outdoor applications that require impact protection.



Comfortable and lightweight safety glasses with integrated foam padding to limit eye exposure to dust particles.

Features:

- W2MAX anti-fog coated
- Scratch resistant, polycarbonate lens
- Removable flame resistant foam padding
- Soft integrated nose piece
- Soft, non-slip rubber temple

Benefits:

- Wrap-around lens provides excellent side protection
- Slim co-injected temples for snug, secure fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- W2MAX creates a high performing, superior anti-fog coating that is durable enough to withstand repeated cleaning without losing adhesion
- W2MAX ensures maximum clarity in the most extreme temperatures and humidity conditions
- Flame resistant foam padding helps limit eye exposure to dust and particles while providing additional cushioning
- **Clear lens** provide impact resistance
- **Grey lens** offers protection from excessive glare

Standards:

- SEI CAN/CSA Z94.3-15 approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

AEGIS SAFETY GOGGLES



These safety goggles offer a modern design combined with performance, comfort and flexibility.

Features:

- W2X anti-fog coated, polycarbonate lens
- Fits over prescription glasses
- Fully adjustable elastic band
- Indirect ventilation system prevents fogging

Benefits:

- Goggle provides protection against dust and chemical splash
- Dual pane lens ensures ultimate anti-fog performance
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection
- Thermoplastic (TPR) body with universal nose bridge is flexible and contours to the user's face

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

| Description | Art. No. | P. Qty. |
|--|-------------------|---------|
| Clear, Anti-Fog | 899.103221 | 1 |
| Clear, Replacement Lens* **NEW* | 899.100012 | |
| Grey, Replacement Lens* **NEW* | 899.100013 | |

Areas of application:

General purpose for indoor or outdoor applications that require impact, dust and chemical protection.



BARRACUDA SAFETY GOGGLE AND SHIELD



Eye and face protection in one product!

Features:

- W2X anti-fog coated, polycarbonate lens
- Fits over prescription glasses
- Soft vinyl goggle body conforms to facial contours
- Removable vent caps
- 4 ventilation holes provide appropriate airflow
- Removable and adjustable polycarbonate face shield
- Fully adjustable elastic band
- Includes 2 disposable tear-off shield covers

Benefits:

- Goggle provides protection against dust and chemical splash
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection
- Removable vent caps allow the user to remove when more ventilation is required or leave in place for unsurpassed chemical splash resistance
- Goggle incorporated with removable shield provides full face protection
- Polycarbonate shield conforms to the face offering increased impact and dust protection

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

| Description | Art. No. | P. Qty. |
|-----------------|-------------------|---------|
| Clear, Anti-Fog | 899.103222 | 1 |

Areas of application:

General purpose for indoor or outdoor applications that require impact, dust and chemical protection.



3-PLY EARLOOP MASK



Art. No. 899.011001 P.Qty. 50

Disposable ear loop mask designed to provide comfortable and reliable worker protection.

Features and Benefits:

- 3-ply non-woven polypropylene construction
- Breathable material
- Elastic ear loop design
- Latex-free

Applications:

- Industrial/personal use ONLY
- **NOT intended to be used in medical applications**
- Great for protection from grinding, sanding, sweeping, sawing, bagging and other dusty applications

REUSABLE COTTON FACE MASKS



Art. No. 899.121140 P.Qty. 10

Reusable cotton face masks.

Features and Benefits:

- Double layered fabric facemask
- Washable fabric with elastic ear loops
- Size: 25 x 25 cm
- Colour: Black

Applications:

- Internal employee use
- Personal use
- Activities in public
- NOT intended to filter out dust and dirt
- NOT a substitute for filtering face masks such as N95
- NOT suitable for medical applications

KN95 INDUSTRIAL MASK

Art. No. 899.081799 P.Qty. 10



Disposable KN95 mask designed to provide comfortable and reliable worker protection against dust and dirt

Features and Benefits:

- KN95 Approved (equivalent to NIOSH N95)
- Filtration efficiency of at least 95%
- Dual-strap design
- Soft foam nose cushion for more comfort
- Contoured formable aluminum nose-clip
- Thickened carbon filter helps make breathing easier

Applications:

- Industrial Use ONLY
- **Not intended to be used in medical applications**
- Grinding, sanding sweeping, sawing, bagging or other dusty applications.

***NOTE: ITEM SOLD UNDER SUPPLIER BRANDING. THIS ITEM IS FINAL SALE, NO RETURNS, EXCHANGES OR REFUNDS.**

Comparisons of KN95 and N95:

To expand the availability of N95 respirators during the pandemic, equivalent alternate standards may also be acceptable. This includes respirators that are approved or certified under standards used in other countries that are similar to NIOSH-approved N95 respirators. For example, this includes KN95 respirators. See table below for a technical comparison of N95 vs. KN95.

The Government of Canada has developed detailed specifications for personal protective equipment such as disposable N95 respirators. Learn more about the products and services needed along with related specifications: <https://buyandsell.gc.ca/specifications-for-COVID-19-products#100>

Specifications for filtering face pieces:

| | Typical | Alternative |
|--|--|---|
| Certification/Class Label | NIOSH N95 (42 CRF Part 84) | KN95 (GB2626-2006) |
| Labelling Information on respirator | <ul style="list-style-type: none"> • Manufacturer's Name • TC-84A-#### • NIOSH • Lot Number • Filter designation (i.e. N95) • Model Number | <ul style="list-style-type: none"> • Number and year of publication of standard • Type and grade of filter elements (i.e. KN95) |
| Filter Performance - (must be \geq X% efficient) | $\geq 95\%$ | $\geq 95\%$ |
| Test Agent | NaCl | NaCl |
| Flow Rate | 85 L/min | 85 L/min |
| Total inward leakage (TIL) 2 - tested on human subjects each performing exercises | N/A | $\leq 8\%$ leakage (arithmetic mean) |
| Inhalation resistance - max pressure drop | ≤ 343 Pa | ≤ 350 Pa |
| Flow Rate | 85 L/min | 85 L/min |
| Exhalation resistance - max pressure drop | ≤ 245 Pa | ≤ 250 Pa |
| Flow Rate | 85 L/min | 85 L/min |
| Exhalation valve leakage requirement | Leak rate 30 mL/min | Depressurization to 0 Pa ≥ 20 sec |
| Force applied | -245 Pa | -1180 Pa |
| CO₂ clearance requirement | N/A | $\leq 1\%$ |

N95 DISPOSABLE PARTICULATE RESPIRATORS



Art. No. 899.081730 P. Qty: 20/BX

Disposable N95 particulate respirator designed to provide comfortable and reliable worker respiratory protection against certain non-oil based particles

Features & Benefits:

- NIOSH N95 Approved
- Provides at least 95% filtration efficiency against certain non-oil based particles
- Electrostatically-charged filter media provides low breathing resistance
- Latex-free, staple-free head straps for comfort and safety
- Soft foam nose cushion for more comfort
- Contoured formable aluminum nose-clip
- More durable double-shell construction for long life and better value
- Compatible with a variety of protective eyewear and hearing protection

Applications:

- Grinding, sanding, sweeping, sawing, bagging or other dusty applications



Art. No. 899.081740 P. Qty: 10/BX

Disposable N95 particulate respirator with an exhalation valve, designed to provide comfortable and reliable worker respiratory protection against certain non-oil based particles

Features & Benefits:

- NIOSH N95 Approved
- Provides at least 95% filtration efficiency against certain non-oil based particles
- Premium oversized valve opens more easily to expel hot air for cool comfort
- Electrostatically-charged filter media provides low inhalation breathing resistance
- Latex-free, staple-free head straps for comfort and safety
- Soft foam nose cushion for more comfort
- Contoured formable aluminum nose-clip
- More durable double-shell construction for long life and better value
- Compatible with a variety of protective eyewear and hearing protection

Applications:

- Grinding, sanding, sweeping, sawing, bagging or other dusty applications

WARNING: Not NIOSH approved for ozone protection, organic vapours or acid gases. "Nuisance Level" refers to concentrations not exceeding the OSHA PEL or applicable government standards for exposure limits, whichever is lower. Do not use in or around sandblasting. This product does not supply oxygen.

NUISANCE DISPOSABLE DUST MASK



Dust Mask vs. Respirators, Can you tell the difference?

Dust masks are not NIOSH approved disposable filtering face pieces. They can be worn for comfort against non-toxic nuisance dusts during activities like mowing, gardening, sweeping and dusting. These masks are not respirators and do not offer protection against hazardous dusts, gases or vapours. Dust masks can easily be confused with NIOSH approved N-95 respirators. How can you tell the difference? Look for a NIOSH label printed on the box and/or mask. Also the use of the word "respirator" on the box may indicate it is a NIOSH approved respirator.

Art. No. 899.061501 P. Qty: 50/BX

Economical choice for excellent comfort and disposable breathing protection

Features & Benefits:

- Moderate protection against nuisance dust and non-toxic household dusts and pollen
- Extremely lightweight, only 5 g
- Material friendly to the skin
- Does NOT provide lung protection
- Aluminum adjustable nose clip for contoured seal
- Adjustable straps for a snug fit
- No staples for added comfort
- **NOT NIOSH approved**
- Not recommended for paint booth

Applications: For dusty environments

DISPOSABLE N95 CARBON DUST MASK



NOTE: Not NIOSH approved for ozone protection, organic vapours or acid gases. "Nuisance Level" refers to concentrations not exceeding the OSHA PEL or applicable government standards for exposure limits, whichever is lower. Do not use in or around sandblasting. This product does not supply oxygen.

Art. No. 899.081745 P. Qty: 10/BX

Helps provide comfortable protection against certain oil and non-oil based particles- including those with nuisance levels of organic vapours/acid gases.

Features & Benefits:

- NIOSH N95 Approved
- Provides at least 95% filtration efficiency against certain non-oil based particles
- Layer of activated carbon provides comfort relief against nuisance levels of both organic vapours and acid gas such as solvents, degreasers and resins.
- Premium oversized valve opens more easily to expel hot air for cool comfort
- Smooth latex-free polymer head straps won't catch on hair. No pre-stretching needed.
- Soft foam nose cushion for more comfort
- Adjustable nose clip reduces potential for eyewear fogging and helps ensure a better seal and fit
- Compatible with a variety of protective eyewear and hearing protection
- Time use limitations apply

Applications:

- Grinding, sanding, aluminum smelting, foundry applications, lab settings, agricultural, petrochemical and manufacturing and undercoating where particles and nuisance levels of organic vapours may be present

PROFESSIONAL RESPIRATOR KIT



All-in-one respirator kit that is NIOSH approved for respiratory protection against a wide range of oil and non-oil based particulate contaminants

Features & Benefits:

- NIOSH OV-AG/P100 approved
- Provides at least 99.97% filtration efficiency against certain particles such as lead, asbestos, cadmium, arsenic and MDA.
- Layer of activated carbon provides comfort relief against nuisance levels of organic vapour, acid gas
- Silicone half mask provides greater softness, comfort and durability
- Completely assembled and individually packed in resealable foil bags
- Heavy duty adjustable head straps for comfort and safety
- Compatible with a variety of protective eyewear and hearing protection
- Includes Bonus Hygiene Guard & Shape Retainer insert
- Replaceable particulate filters

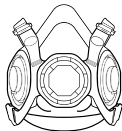
Applications:

- Use for a variety of applications including welding, brazing, torch cutting, metal pouring, soldering, agriculture, construction, general manufacturing, pharmaceuticals and primary metals

| Size | Art. No. | P. Qty. |
|--------|-------------------|---------|
| Medium | 899.089290 | 1 |
| Large | 899.089390 | |

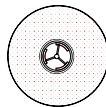
WARNING: "Nuisance Level" refers to concentrations not exceeding OSHA PEL or applicable government standards, whichever is lower. This filter does not provide lung protection against organic vapours or acid gases. Do not use in or around sandblasting. This product does not supply oxygen. Read and understand instructions and warnings before using this product.

Includes:



1 x Würth Half Mask Respirator

+



4 x OV/AG Particulate Filter (899.08200)

PROFESSIONAL SERIES PRO-STEP RESPIRATOR KIT



All-in-one respirator kit that is NIOSH approved for protection against certain organic vapours and particles

Features & Benefits:

- NIOSH OV/P95 approved for Organic Vapours plus solid and oil aerosols
- Silicone half mask provides greater softness, comfort and durability
- Completely assembled and individually packed in resealable foil bags
- Heavy duty adjustable head straps for comfort and safety
- Soft foam nose cushion for more comfort
- Compatible with a variety of protective eyewear and hearing protection
- Includes Bonus Hygiene Guard & Shape Retainer insert
- Replaceable cartridges and particulate filter

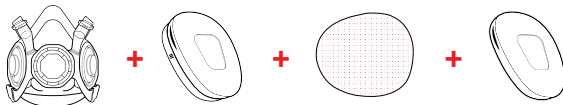
Applications:

- Use for a variety of applications including assembly and mechanical, batch-charging, change-overs, chemical dispensing, clean-up, cleaning, spray painting, parts cleaning, seal coating, chemicals, construction, oil and gas, and transportation

WARNING: Do not use in or around sandblasting. This product does not supply oxygen. Read and understand instructions and warnings before using this product. This respiratory protection system is not for use in environments that are immediately dangerous to life or health.

| Size | Art. No. | P. Qty. |
|--------|------------|---------|
| Medium | 899.089291 | 1 |
| Large | 899.089391 | |

Includes:



| | | | |
|---------------------------------------|---------------------------------------|---|--|
| 1 x Würth Half Mask Respirator | 2 x OV Cartridges (899.871481) | 2 x P95 Particulate Filters (899.871916) | 2 x Pre-Filter Retainers (899.871620) |
|---------------------------------------|---------------------------------------|---|--|

SIGNATURE SERIES HALF-MASK RESPIRATOR



Provides respiratory protection against particulates and a wide variety of gases and vapours when used with approved cartridges and filters

Features & Benefits:

- NIOSH Approved
- Soft, lightweight elastomeric (TPE) half face piece
- Cradle suspension
- Exhalation valve helps make breathing easier and offers cooler and drier use
- Easy-to-adjust head straps
- Bonus Hygiene Guard included for clean storage and product protection
- Can be disassembled, cleaned and **reused**
- For use with Würth cartridges and filters (sold separately)
- Comes with sealable storage bag

Applications:

- Sawing, masonry, machining, laboratories, painting, cleaning, grinding, pouring/casting, chemical handling, chemical clean-up, sanding, welding, assembly and mechanical, chipping, furnace operations, chiseling

| Size | Art. No. | P. Qty. |
|--------|------------|---------|
| Medium | 899.871483 | 1 |
| Large | 899.871484 | |

NOTE: These respirators help reduce exposure to certain airborne contaminants. Misuse may result in sickness or death. Before use, the wearer must read and understand User Instructions provided as a part of product packaging.

SIGNATURE ONE-STEP RESPIRATOR KIT

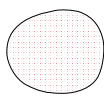


| Size | Art. No. | P. Qty. |
|--------|------------|---------|
| Medium | 899.871501 | 1 |
| Large | 899.871502 | |

Includes:



2 x OV
Cartridges
(899.871481)



2 x P95
Particulate Filters
(899.871916)



All-in-one NIOSH approved for respiratory protection against certain organic vapours and particles

Features & Benefits:

- NIOSH OV/P95 approved for Organic Vapours plus solid and oil aerosols
- Half face piece design is ideal for intermittent use
- Completely assembled and individually packed in resealable foil bags
- Disposable model helps reduce maintenance issues for greater convenience
- Heavy duty adjustable head straps for comfort and safety
- Soft foam nose cushion for more comfort
- Compatible with a variety of protective eyewear and hearing protection
- Includes Bonus Hygiene Guard & Shape Retainer insert
- Cartridges and filter NOT replaceable

Applications:

Use for a variety of applications including spray painting, pesticides, spray painting, pesticides, clear coating, staining, cleaning, assembly and mechanical, agriculture, construction and transportation, mining, oil & gas

WARNING: Do not use in or around sandblasting. This product does not supply oxygen. Read and understand instructions and warnings before using this product. This respiratory protection system is not for use in environments that are immediately dangerous to life or health.

PROFESSIONAL SERIES HALF-MASK RESPIRATOR



| Size | Art. No. | P. Qty. |
|--------|------------|---------|
| Medium | 899.879250 | 1 |
| Large | 899.879350 | |

NOTE: These respirators help reduce exposure to certain airborne contaminants. Misuse may result in sickness or death. Before use, the wearer must read and understand User Instructions provided as a part of product packaging.

Provides respiratory protection against particulates and a wide variety of gases and vapours when used with approved cartridges and filters

Features & Benefits:

- NIOSH Approved
- Soft, silicone rubber for highest level of comfort and durability
- Exhalation valve helps make breathing easier and can offer cooler and drier comfort
- Can be disassembled, cleaned and **reused**
- Easy to clean- dried paint easily removed from flexible silicone material
- Comfortable, easy-to-adjust head straps
- Bonus Hygiene Guard included for clean storage and product protection
- For use with Würth cartridges and filters (sold separately)
- Comes with sealable storage bag

Applications:

- Sawing, masonry, machining, laboratories, painting, cleaning, grinding, pouring/casting, chemical handling, chemical clean-up, sanding, welding, assembly and mechanical, chipping, furnace operations, chiseling

FULL FACE RESPIRATOR



Art. No. 899.899002

Provides respiratory protection against particulates and a wide variety of gases and vapours when used with approved cartridges and filters

Features & Benefits:

- NIOSH Approved
- One size fits all
- Comfortable elastomeric material
- Wraparound lens for excellent field of vision
- Full size nose cup reduces lens fogging
- Exhalation valve helps make breathing easier and offers cooler and drier use
- Easy-to-adjust head straps
- Can be disassembled, cleaned and **reused**
- For use with Würth cartridges and filters (sold separately)
- Comes with sealable storage bag
- Includes lanyard

Applications:

- Sawing, masonry, machining, laboratories, painting, cleaning, grinding, pouring/casting, chemical handling, chemical clean-up, sanding, welding, assembly and mechanical, chipping, furnace operations, chiseling

| Size | Art. No. | P. Qty. |
|------|------------|---------|
| O/S | 899.899002 | 1 |

PROTECTIVE LENS FILMS



Art. No. 899.871122

- For use with Art. No. 899.899002
- Helps full face lens stay clean
- Peel away

ALCOHOL FREE RESPIRATOR WIPES



Art. No. 899.102303 Qty. 100/BX

- For use with Art. No. 899.899002
- Great for hygienic cleansing of respirators and other personal protection equipment shared between workers
- Non-alcohol formula






WÜRTH RESPIRATOR CARTRIDGES

*Fits our full and half mask respirators

| Image | Description | Art. No. | P. Qty. |
|---|---|-------------------|---------|
|  | <p>Würrth Organic Vapour Cartridge</p> <ul style="list-style-type: none"> • NIOSH approved against certain organic vapours • NIOSH Black = Organic Vapour | 899.871481 | 2/BG |
|  | <p>Würrth Organic Vapour/Acid Gas Cartridge</p> <ul style="list-style-type: none"> • NIOSH approved against organic vapours, sulfur dioxide, hydrogen chloride, chlorine • NIOSH Yellow = Organic Vapour/Acid Gas | 899.871478 | 2/BG |
|  | <p>Würrth Multi-Gas Cartridge</p> <ul style="list-style-type: none"> • NIOSH approved against ammonia, chlorine dioxide, chlorine, formaldehyde, hydrogen chloride, hydrogen fluoride, hydrogen sulfide, methylamine, organic vapour, sulfur dioxide • NIOSH Olive = Multi-Gas | 899.871289 | 2/BG |
|  | <p>Würrth Organic Vapour Cartridge with P100 Filter</p> <ul style="list-style-type: none"> • NIOSH approved against certain organic vapours • Attached P100 Particulate Filter • NIOSH Black = Organic Vapour | 899.871571 | 2/BG |
|  | <p>Würrth Organic Vapour/Acid Gas Cartridge with P100 Filter</p> <ul style="list-style-type: none"> • NIOSH approved against organic vapours, sulfur dioxide, hydrogen chloride, chlorine • Attached P100 Particulate Filter • NIOSH Yellow = Organic Vapour/Acid Gas | 899.871573 | 2/BG |
|  | <p>Würrth Multi-Gas Cartridge with P100 Filter</p> <ul style="list-style-type: none"> • NIOSH approved against ammonia, chlorine dioxide, chlorine, formaldehyde, hydrogen chloride, hydrogen fluoride, hydrogen sulfide, methylamine, organic vapour, sulfur dioxide • Attached P100 Particulate Filter • NIOSH Olive = Multi-Gas | 899.871578 | 2/BG |

WÜRTH RESPIRATORY FILTERS

*For use with our full and half mask respirators

| Image | Description | Art. No. | P. Qty. |
|---|--|-------------------|---------|
|  | <p>Würth P95 Particulate Filter Pad</p> <ul style="list-style-type: none"> • NIOSH 95% filter efficiency • Effective against all solid and oil particulate aerosols • Applications: Grinding, sanding, bagging and other dusty/oil applications | 899.871916 | 10/BG |
|  | <p>Würth P100 Particulate Filter</p> <ul style="list-style-type: none"> • NIOSH 99.97% filter efficiency • Effective against all solid and oil particulate aerosols • Applications: Welding, metal pouring, pharmaceuticals • Thumbs up fit testing feature | 899.8770 | 2/BG |
|  | <p>Würth P100 Particulate Filter, Pancake Style</p> <ul style="list-style-type: none"> • NIOSH 99.97% filter efficiency • Effective against all solid and oil particulate aerosols • Applications: utilities operations, chemical manufacturing | 899.08100 | 2/BG |
|  | <p>Würth P100 OV/AG Particulate Filter, Pancake Style</p> <ul style="list-style-type: none"> • NIOSH 99.97% filter efficiency • Effective against all solid and oil particulate aerosols • Applications: Welding, metal pouring, pharmaceuticals, aluminum smelting | 899.08200 | 2/BG |
|  | <p>Würth Filter Retainer</p> <ul style="list-style-type: none"> • For use with 899.871916 • Used to clamp particulate pre-filters on to gas and vapour filters | 899.871620 | 2/BG |

TRUEFORM NITRILE GLOVES



| Sizes | Art. No. | P. Qty. |
|----------|-------------|---------|
| Small | 899.N301342 | 1 box |
| Medium | 899.N301343 | |
| Large | 899.N301344 | |
| X-Large | 899.N301345 | |
| XX-Large | 899.N301346 | |

Value and performance hand protection suitable for a wide variety of applications .

Features:

- 3 mil thickness
- 100/box
- Royal Blue
- Powder-free
- Latex-free
- Micro-roughened textured
- Polymer-coated
- Snug-fitting
- Ambidextrous
- Standard Cuff: 9.5"

Applications:

- **Industrial use only**
- **Not for medical use**
- **Not a medical device**
- Everyday essentials
- Body shops
- Machine shops
- Industrial applications
- Janitorial work
- Plumbing
- Anywhere a hard working glove is needed

Benefits:

- Excellent wet and dry grip
- Silicone free for critical environments
- Tear-resistant beaded cuff eases donning
- Excellent dexterity
- Touchscreen compatibility

MEGAMAN NITRILE GLOVES



| Sizes | Art. No. | P. Qty. |
|----------|-------------|---------|
| Small | 899.N260882 | 1 box |
| Medium | 899.N260883 | |
| Large | 899.N260884 | |
| X-Large | 899.N260885 | |
| XX-Large | 899.N260886 | |

We've combined sweat management and unprecedented strength in a glove that delivers the ultimate comfort and performance.

Features:

- 50/box
- 8 mil thickness
- Powder-free
- Nitrile Exam Grade
- Latex-free
- Micro-roughened texture
- Polymer-coated
- Absorbent lined
- Snug-fitting
- Ambidextrous
- Extended Cuff: 11"

Applications:

- Everyday essentials
- Body shops
- Machine shops
- Industrial applications
- Janitorial work
- Plumbing
- Anywhere a hard working glove is needed

Benefits:

- DriTek® Comfort Technology with absorbent lining that wicks away moisture for added extended use
- Optimal thickness for durability and tactile sensitivity
- Up to 3x longer lasting than standard nitrile gloves
- Excellent dexterity

* NOTE: ITEM SOLD UNDER SUPPLIER BRANDING.
THIS ITEM IS FINAL SALE, NO RETURNS OR REFUNDS.

MECHANIC'S WINTER GLOVE



Features:

- Universal winter glove made of seamlessly knit polyester-cotton loop fabric.
- High-quality natural latex coating.
- Open hand backs for good breathability.
- Excellent dry and wet grip via fine surface texturing.
- Very good mechanical loadability.
- Silicone-free.

EN Standards/performance values

EN 420 + EN 388 + EN 511

CE Cat. II/ performance values EN 388: 2241

Performance values EN 511: X1X

Areas of application:

- Building trade.
- Supply and disposal companies.
- Work in cool and normal warehouses.
- Goods transfer.
- Due to their good resistance to wear, highly suitable for plastering work.
- Scaffolding.
- Above-and below-ground construction.

| Size | Art. No. | P. Qty. |
|-----------------|-------------------|---------|
| Large / 9-10 | 899.400521 | 1 pair |
| X Large / 10-11 | 899.400522 | |

HEAVILY LINED SNOW STOPPER GLOVE



Features:

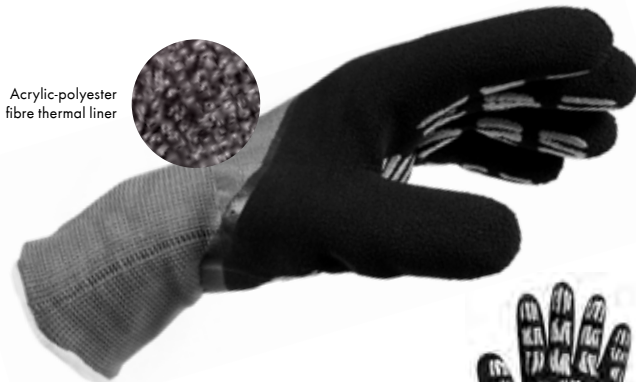
- Heavy Sherpa lining, keeping hands warm in cold conditions
- Durable split cowhide leather with breathable cotton drill back, keeping hands cool and comfortable
- Full leather index finger, pulse protector and knuckle bar for added protection and reinforcement
- Snug-fitting shirred elastic wrist with slip-on style safety cuff for quick and easy removal

Areas of application:

- General purpose
- Cold weather construction
- Light to Medium Industrial
- Maintenance

| Description | Art. No. | Qty. |
|--------------|-------------------|------|
| Large / 9 | 899.400500 | 1 |
| X Large / 10 | 899.400501 | |

TIGERFLEX THERMO GLOVES



Acrylic-polyester fibre thermal liner



2.2.4.2

EN 388: Mechanical risks

| Test criteria | Assessment gauge |
|------------------------------|------------------|
| Wear resistance | 0-4 |
| Cutting resistance | 0-5 |
| Tear resistance | 0-4 |
| Penetration resistance | 0-4 |

| Size | Art. No. | P. Qty. |
|---------------|-------------------|---------|
| Medium / 8 | 899.404028 | 6 |
| Large / 9 | 899.404029 | |
| X Large / 10 | 899.404030 | |
| XX Large / 11 | 899.404031 | |

For jobs that require handling sharp materials in cold and wet conditions, the THERMO gloves keeps hands dry and warm while also delivering Cut Level 2 protection.

Features:

- Dark grey, skin-friendly, seamless round-knit nylon/Lycra base fabric (13 gauge)
- ¾ dipped foam nitrile with additional Nitrile Tiger Grip
- Acrylic-polyester fibre thermal liner
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 2.2.4.2.

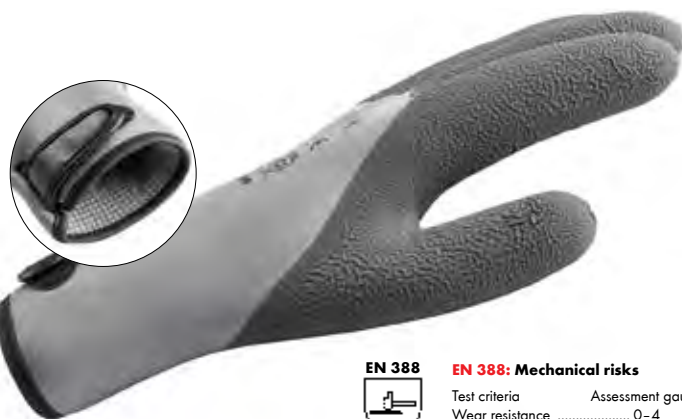
Benefits:

- EN 388 Cut Level 2 protection
- Very comfortable to wear.
- Extremely breathable.
- Darker color hides dirt and grime for extended wear time
- Thermal insulated to keep hands warm in the coldest conditions
- Nylon fabric is soft and form fitting while palm coating adds outstanding grip and dexterity
- Excellent wet/dry grip
- Oil-repellent and water-repellent

Applications:

Can be used indoors and outdoors. Suitable for applications such as assembly, interior construction, workshop, mechanical, car manufacturing, maintenance and bodywork tasks. Freight forwarding, transport and warehouse activities.

MULTIFIT WINTER DRY GLOVES



2.2.4.2

EN 388: Mechanical risks

| Test criteria | Assessment gauge |
|------------------------------|------------------|
| Wear resistance | 0-4 |
| Cutting resistance | 0-5 |
| Tear resistance | 0-4 |
| Penetration resistance | 0-4 |

| Size | Art. No. | P. Qty. |
|------|-------------------|---------|
| M | 899.405608 | 6 |
| L | 899.405609 | |
| XL | 899.405610 | |
| XXL | 899.405611 | |

Breathable, water repellent, fully coated latex grip glove with thermal insulation

Features:

- 15 gauge Nylon/Spandex liner
- Full latex foam coating, with extra grip coating
- Acrylic-fleece thermal lining
- Reinforced safety cuff
- Seamless knit
- CATII / EN388 Performance level: 3.1.4.2

Benefits:

- Less perspiration in hot environments, yet warm and dry in wet environments
- Latex coating provides outstanding grip and abrasion resistance
- Liquid-repellent and breathable
- Optimum fit and maximum touch sensitivity
- Thermal insulated to keep hands warm in the coldest conditions
- Excellent wet/dry grip
- Oil-resistant and waterproof

Applications:

• Suitable for wet working environments including aerospace, agriculture, automotive, construction, manufacturing, landscaping, logistics, rail, utilities, warehousing

W-100 FULL GRAIN WELDING GLOVE



Tough, durable welding glove that also provides excellent resistance to oil and water

Features & Benefits:

- Made of premium-quality grain cowhide leather
- Unlined
- Split leather back and cuffs for flexibility
- Superior fit and dexterity without compromising on durability
- Welted seams and straight thumbs for control
- 4" gauntlet cuff provides full protection

Applications:

- Welding applications, deburring and general purpose work

| Sizes | Art. No. | P. Qty. |
|-------|--------------------|---------|
| 10 | 5350.050010 | 6 pairs |

W-120 SPLIT LEATHER WELDING GLOVE



High quality, durable welding glove that provides maximum protection

Features & Benefits:

- Made of high-quality split leather
- Unlined
- Excellent abrasion resistance
- Welted seams at all critical points
- 4" gauntlet cuff provides full protection

Applications:

- For light welding, cutting, grinding, deburring and other rough tasks.

| Sizes | Art. No. | P. Qty. |
|-------|--------------------|---------|
| 10 | 5350.050210 | 6 pairs |

W-20 FULL GRAIN COWHIDE GLOVES



Tough, rugged leather gloves that also provides superior comfort and flexibility

Features & Benefits:

- Made of high-quality full-grain cowhide leather
- Knuckle guard, fingertips and index fingers are full-grain leather
- Cotton lining in the palms
- Rubberized Wrists
- 2-1/2" Safety Cuff

Applications:

- Medium to heavy-duty mechanical activities, metalworking, bodywork, transport industry, woodworking, repair, installation and maintenance work, construction industry.

| Sizes | Art. No. | P. Qty. |
|-------|--------------------|----------|
| 9 | 5350.000009 | 12 pairs |
| 10 | 5350.000010 | |

W-10 SPLIT LEATHER GLOVES



Tough, rugged leather gloves that also provides superior comfort and flexibility

Features & Benefits:

- Made of high-quality split cowhide leather
- Knuckle guard, fingertips and index fingers are full split leather providing excellent durability
- Cotton lining in the palms
- Rubberized Wrists
- 2-1/2" Safety Cuff

Applications:

- Medium to heavy-duty mechanical activities, metalworking, bodywork, transport industry, woodworking, repair, installation and maintenance work, construction industry.

| Sizes | Art. No. | P. Qty. |
|-------|-------------|----------|
| 9 | 5350.000109 | 12 pairs |
| 10 | 5350.000110 | |

BLUE NITRILE PROTECTIVE GLOVES



Heavy duty nitrile coated glove that provides superior grip and chemical resistance

Features & Benefits:

- 100% Cotton Jersey Liner
- Heavy nitrile fully coated
- Excellent resistance to abrasion, tear and puncture
- Superior protection against oil and grease
- Knit Wrist

Standards:

- EN388:2016 performance level: 3111X

Applications:

- Rough industrial applications, sheet metal handling, fabrication workshops and automotive

| Sizes | Art. No. | P. Qty. |
|-------|------------|----------|
| 9 | 899.413109 | 12 pairs |
| 10 | 899.413110 | |
| 11 | 899.413111 | |

HEAVY DUTY BLUE NITRILE PROTECTIVE GLOVES



Heavy duty nitrile coated glove that provides superior grip and chemical resistance

Features & Benefits:

- 100% Cotton Jersey Liner
- Heavy nitrile ¾ palm coating
- Excellent resistance to abrasion, tear and puncture
- Superior protection against oil and grease
- 2-1/2" Safety Cuff

Standards:

- EN388:2016 performance level: 3111X

Applications:

- Rough industrial applications, sheet metal handling, fabrication workshops and automotive

| Sizes | Art. No. | P. Qty. |
|-------|------------|----------|
| 10 | 899.412410 | 12 pairs |

WELDER'S GLOVES KEVLAR THREAD TIG



Areas of application:

- Welding
- Utility Work

| Size | Art. No. | P. Qty. |
|--------------|-------------------|---------|
| Small / 7 | 984.27555 | 6 pairs |
| Medium / 8 | 984.2755M | 6 pairs |
| Large / 9 | 984.310108 | 1 pair |
| X Large / 10 | 984.310109 | 1 pair |

Features

- Rugged split deerskin leather stitched with Kevlar® thread offers excellent strength and durability
- Clute cut design with straight thumb offers comfort and flexibility
- Leather thumb saddle and pulse protector for added reinforcement and protection
- Gauntlet style cuff with leather gore for additional wrist and forearm protection
- Unlined
- Glove Weight: 210 Grams

GREEN PVC GLOVES



Features:

- Double dipped PVC coating on jersey liner with sanded palm surface.
- Fully coated, including cuff.
- Gauntlet style wrist.
- Superior chemical resistance.
- 100 % fluid-proof.
- Versatile chemical resistance such as:

alcohol, oils, alkaline solutions, acids, epoxy resins, polyester resins.

- Not recommended for: aromatic substances, chlorinated hydrocarbons, solvents, organic matter, or nitro thinner.

| Size | Art. No. | P. Qty. |
|--------------|----------------|---------|
| X Large / 10 | 899.430 | 2 pairs |

TIGERFLEX CUT 5/500 GLOVES



EN 388



4.5.4.3

EN 388: Mechanical risks

| Test criteria | Assessment gauge |
|------------------------------|------------------|
| Wear resistance | 0-4 |
| Cutting resistance | 0-5 |
| Tear resistance | 0-4 |
| Penetration resistance | 0-4 |



These gloves are ultra-lightweight, form fitting and heavy on protection. Micro foam nitrile palm coatings with additional Tiger Grip offers superior grip.

Features

- 13-Gauge blue HPPE/Glass fiber liner
- Micro Foam nitrile palm coating with additional Nitrile Tiger Grip
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.5.4.3.

Benefits

- Lightweight, form fitting 13-Gauge construction delivers superior dexterity and comfort.
- HPPE/Glass fibre blend offers the highest Cut 5 protection
- Excellent grip and protection allowing for maximum flexibility and dexterity
- Oil-repellent and water-repellent

Applications

Glass handling, sheet metal work, cutting applications, bottling and canning, building and construction work.

| Size | Art. No. | P. Qty. |
|---------------|-------------------|---------|
| Small / 7 | 899.451357 | 1 |
| Medium / 8 | 899.451358 | |
| Large / 9 | 899.451359 | |
| X Large / 10 | 899.451360 | |
| XX Large / 11 | 899.451361 | |

TIGERFLEX CUT 3/300 GLOVES



EN 388: Mechanical risks

| Test criteria | Assessment gauge |
|------------------------------|------------------|
| Wear resistance | 0-4 |
| Cutting resistance | 0-5 |
| Tear resistance | 0-4 |
| Penetration resistance | 0-4 |

4.3.4.3



| Size | Art. No. | P. Qty. |
|---------------|------------|---------|
| Small / 7 | 899.451367 | 1 |
| Medium / 8 | 899.451368 | |
| Large / 9 | 899.451369 | |
| X Large / 10 | 899.451370 | |
| XX Large / 11 | 899.451371 | |

These gloves provide long-lasting hand protection with Tiger Grip palm coating and EN level 3 cut protection.

Features

- 13-Gauge Grey HPPE Liner
- Micro Foam nitrile palm coating with additional Nitrile Tiger Grip
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.3.4.3.

Benefits

- Lightweight, form fitting 13-Gauge construction delivers superior dexterity and comfort.
- HPPE liner offers Cut 3 protection
- Excellent grip and protection allowing for maximum flexibility and dexterity
- Oil-repellent and water-repellent

Applications

Glass handling, sheet metal work, cutting applications, bottling and canning, building and construction work.

SOFTFLEX FOAM NITRILE GLOVE



EN 388: Mechanical risks

Test criteria

Wear resistance
Cutting resistance
Tear resistance
Penetration resistance

Assessment gauge

0 - 4
0 - 5
0 - 4
0 - 4

Note: 0 = minimum requirement, 4 - 5 = highest level



| Size | Art. No | P. Qty. |
|---------------|------------|---------|
| Medium / 8 | 899.401068 | 12/pk |
| Large / 9 | 899.401069 | |
| X Large / 10 | 899.401070 | |
| XX Large / 11 | 899.401071 | |

Water based PU and foam nitrile with a sandy finish for extremely good grip and dexterity.

Features:

- Skin-friendly, seamless round-knit nylon/Spandex base fabric (15 gauge)
- Water-based PU and NBR (nitrile) foam-coated palms
- Elasticated cuffs
- High oil resistance due to special nitrile coating
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.1.3.1.

Benefits:

- Especially suited for handling wet items
- Very comfortable to wear
- Extremely breathable
- Outstanding grip and dexterity
- Excellent wet/dry grip
- Oil-repellent and water-repellent

Application:

Assembly, interior construction, workshop, mechanical, car manufacturing, maintenance and bodywork tasks. Freight forwarding, transport and warehouse activities.

CUT 4 PU PROTECTIVE GLOVES



PU coated gloves that provide the perfect blend of cut, abrasion resistance and grip

Features & Benefits:

- 13 gauge HDPE (High Density Polyethylene Gloves)
- Durable PU coated palms
- Outstanding grip and protection allowing for maximum flexibility and dexterity
- Superior comfort, breathability and 360° cut resistance
- Knit wrist

Standards:

- **Cut Level 4 resistance**
- EN388:2016 performance level:4443D

Applications:

- Glass handling, construction, wood handling, automotive, masonry, and general maintenance/manufacturing

| Sizes | Art. No. | P. Qty. |
|-------|-------------------|----------|
| 7 | 899.407107 | 12 pairs |
| 8 | 899.407108 | |
| 9 | 899.407109 | |
| 10 | 899.407110 | |
| 11 | 899.407111 | |

BLACK PU PROTECTIVE GLOVES



Black polyurethane coated gloves that provide outstanding grip and abrasion resistance

Features & Benefits:

- 13 Gauge Seamless Polyester knit
- Light Polyurethane Coated Palms
- Excellent Abrasion Resistance
- Superior comfort and breathability
- Knit Wrist

Standards:

- EN388:2016 performance level: 2121X

Applications:

- Clean room environments, quality control, electronics assembly and general manufacturing

| Sizes | Art. No. | P. Qty. |
|-------|-------------------|----------|
| 6 | 899.402406 | 12 pairs |
| 7 | 899.402407 | |
| 8 | 899.402408 | |
| 9 | 899.402409 | |
| 10 | 899.402410 | |
| 11 | 899.402411 | |

RED NITRILE PROTECTIVE GLOVES



Grey nitrile palm coated glove that provides superior grip, cut and abrasion resistance

Features & Benefits:

- 13 Gauge Seamless Polyester knit shell
- Durable Nitrile Coated Palms
- Excellent Abrasion Resistance
- Superior comfort and breathability
- Knit Wrist

Standards:

- EN388:2016 performance level: 3121X

Applications:

- Fine handling in greasy or dirty environments, automotive and parts assembly, parts handling and automotive repair

| Sizes | Art. No. | P. Qty. |
|-------|-------------------|----------|
| 7 | 899.403107 | 12 pairs |
| 8 | 899.403108 | |
| 9 | 899.403109 | |
| 10 | 899.403110 | |
| 11 | 899.403111 | |

RED LATEX PROTECTIVE GLOVES



Black latex palm coated glove that provides superior grip, cut and abrasion resistance

Features & Benefits:

- 13 Gauge Seamless Polyester knit shell
- Tough Latex Crinkle Coated Palms
- Excellent Abrasion Resistance
- Superior comfort and breathability
- Knit Wrist

Standards:

- EN388:2016 performance level: 2121X

Applications:

- Glass handling, construction, wood handling, automotive, masonry and general maintenance/manufacturing.

| Sizes | Art. No. | P. Qty. |
|-------|-------------------|----------|
| 7 | 899.408207 | 12 pairs |
| 8 | 899.408208 | |
| 9 | 899.408209 | |
| 10 | 899.408210 | |
| 11 | 899.408211 | |

TIGERFLEX ERGO PLUS GLOVES



EN 388

EN 388: Mechanical risks



| Test criteria | Assessment gauge |
|------------------------------|------------------|
| Wear resistance | 0-4 |
| Cutting resistance | 0-5 |
| Tear resistance | 0-4 |
| Penetration resistance | 0-4 |

4.1.2.1

| Size | Art. No. | P. Qty. |
|---------------|------------|---------|
| Small / 7 | 899.401057 | 12 |
| Medium / 8 | 899.401058 | |
| Large / 9 | 899.401059 | |
| X Large / 10 | 899.401060 | |
| XX Large / 11 | 899.401061 | |

Foam nitrile palm coated gloves with additional Tiger Grip for extremely good grip and shorter wrist for increased flexibility.

Features

- Dark grey, skin-friendly, seamless round-knit nylon/Lycra base fabric (15 gauge)
- Foam nitrile palm coating with additional Nitrile Tiger Grip
- Shorter cuff to increase flexibility around the wrist
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.1.2.1.

Benefits

- Very comfortable to wear.
- Extremely breathable.
- Darker color hides dirt and grime for extended wear time
- Nylon fabric is soft and form fitting while palm coating adds outstanding grip and dexterity
- Excellent wet/dry grip
- Oil-repellent and water-repellent
- EN388 Cut Level 1

Applications

Assembly, interior construction, workshop, mechanical, car manufacturing, maintenance and bodywork tasks. Freight forwarding, transport and warehouse activities

TIGERFLEX PLUS GLOVES



EN 388

EN 388: Mechanical risks



| Test criteria | Assessment gauge |
|------------------------------|------------------|
| Wear resistance | 0-4 |
| Cutting resistance | 0-5 |
| Tear resistance | 0-4 |
| Penetration resistance | 0-4 |

4.1.2.2

| Size | Art. No. | P. Qty. |
|---------------|------------|---------|
| Small / 7 | 899.411017 | 12 |
| Medium / 8 | 899.411018 | |
| Large / 9 | 899.411019 | |
| X Large / 10 | 899.411020 | |
| XX Large / 11 | 899.411021 | |

Foam nitrile palm coated gloves with additional Tiger Grip for extremely good grip and dexterity.

Features

- Dark grey, skin-friendly, seamless round-knit nylon/Lycra base fabric (15 gauge)
- Foam nitrile palm coating with additional Nitrile Tiger Grip
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.1.2.2.

Benefits

- Very comfortable to wear.
- Extremely breathable.
- Nylon fabric is soft and form fitting while palm coating adds outstanding grip and dexterity
- Excellent wet/dry grip
- Darker color hides dirt and grime for extended wear time
- Oil-repellent and water-repellent
- EN388 Cut Level 1

Applications

Assembly, interior construction, workshop, mechanical, car manufacturing, maintenance and bodywork tasks. Freight forwarding, transport and warehouse activities.

DRIVER CLASSIC PROTECTIVE GLOVES



Durable, comfortable driver glove that also provides excellent resistance to oil and water.

Features & Benefits:

- Made of premium-quality grain cowhide leather
- Superior abrasion resistance
- Soft and comfortable but tough enough to withstand different applications
- Outstanding comfort and durability
- Elastic Wrists

Applications:

- Agriculture and forestry, wood, construction and road industries, metal construction work, warehousing and logistics, truck and tow drivers

| Size | Art. No. | P. Qty. |
|------|--------------------|---------|
| 9 | 5350.000409 | 6 Pairs |
| 10 | 5350.000410 | |

RED PVC DOT PROTECTIVE GLOVES



Red PVC dotted palm gloves that provides superior grip performance.

Features & Benefits:

- 10 Gauge Polyester/Cotton knit shell
- Red PVC Dotted Coated Palms
- Excellent grip and Abrasion Resistance
- Superior comfort and breathability
- Knit Wrist

Applications:

- General maintenance, shipping and receiving, assembly and parts handling

| Size | Art. No. | P. Qty. |
|-----------|-------------------|----------|
| 8 (S/M) | 899.405008 | 36 Pairs |
| 10 (L/XL) | 899.405010 | |

WÜRTH ASSEMBLY GLOVE "PROTECT"



Areas of application:

- Assembling
- Transport
- Shipping
- Electronics
- Fine mechanics

| Size | Art. No. |
|---------------|-------------------|
| Medium / 8 | 899.400132 |
| Large / 9 | 899.400133 |
| X Large / 10 | 899.400134 |
| XX Large / 11 | 899.400135 |

Premium pig leather with red cotton back

Features:

- The soft, limber pig leather provides protection at general work with low risk
- Perfect fit
- Breathable
- Pleasant wearing comfort
- Elastic cuff with Velcro adjustment

EN Standards/performance

EN 388

CE. Cat II/performance values 1121

TIGERFLEX GUARD PROTECTIVE GLOVE



Puncture resistant glove with breathable nitrile coating and TigerGrip.

Features:

- HDPE base that provides cut, puncture and needlestick protection
- Palm coated with nitrile coating and added TigerGrip
- Elasticated cuffs
- Palm protection ONLY for puncture and needlestick
- EN388 Performance level: 4.5.4.5.

Benefits:

- EN 388 **Cut Level 5** protection
- **Puncture resistant**
- **Needlestick resistant**
- Very comfortable to wear
- Extremely breathable.
- Excellent wet/dry grip

Applications:

- The palm of the glove is needle resistant and suitable for handling glass, cardboard, paper and other pointed and sharp materials

| Size | Art. No. | P. Qty. |
|------|-------------------|---------|
| M | 899.451458 | 1 |
| L | 899.451459 | |
| XL | 899.451460 | |
| XXL | 899.451461 | |

MECHANIC'S GLOVE CUT PLUS



Mechanic's style glove that offers protection for impact and cut hazards in the toughest jobs

Features & Benefits:

- Versatile mechanics style glove
- Soft, flexible TPR protects back of hand against impacts
- HDPE fibres around the palm surfaces for added cut protection
- Anti-Slip palms for enhanced grip in oily conditions
- Neoprene cuff with hook and loop closure
- EN388 CUT Level 5
- CATII / EN388 Performance level: 4.5.4.4.

- Reinforced patches on parts subject to wear and tear
- Durable triple seam in the palms
- Extremely breathable thanks to elastic polyester fabric on back

Applications:

For applications that need cut protection and abrasion resistance such as handling of sharp tools and work pieces, construction, warehousing and logistics tasks, mechanic and workshop tasks, working with hand tools and machines



EN 388: Mechanical risks

| Test criteria | Assessment gauge |
|------------------------------|------------------|
| Wear resistance | 0-4 |
| Cutting resistance | 0-5 |
| Tear resistance | 0-4 |
| Penetration resistance | 0-4 |



EN 388

4.5.4.4

| Sizes | Art. No. | P. Qty |
|---------------|-------------------|--------|
| Medium / 8 | 899.401248 | 1 |
| Large / 9 | 899.401249 | |
| X Large / 10 | 899.401250 | |
| XX Large / 11 | 899.401251 | |

MECHANIC'S GLOVE PRO



Mechanic's style glove with an integrated magnet on the back of the hand to attach small tools and fasteners

Features & Benefits:

- Versatile mechanics style glove
- Soft, flexible TPR protects back of hand against impacts
- Magnetic strip on back of hand
- Synthetic leather palms
- Padded palms to help against vibration and impacts
- Neoprene cuff with hook and loop closure
- CATII / EN388 Performance level: 2.2.3.1.
- Reinforced patches on parts

- subject to wear and tear
- Durable triple seam in the palms
- Extremely breathable thanks to elastic polyester fabric on back

Applications:

For light to medium mechanical work such as construction, warehouse and logistics work, assembly work, mechanic and workshop activities, activities with hand tools and machines



EN 388: Mechanical risks

| Test criteria | Assessment gauge |
|------------------------------|------------------|
| Wear resistance | 0-4 |
| Cutting resistance | 0-5 |
| Tear resistance | 0-4 |
| Penetration resistance | 0-4 |



EN 388

2.2.3.1

| Sizes | Art. No. | P. Qty |
|--------------|-------------------|--------|
| Medium / 8 | 899.400748 | 1 |
| Large / 9 | 899.400749 | |
| X Large / 10 | 899.400750 | |

MULTIFIT DRY PROTECTIVE GLOVE



| Test criteria | Assessment gauge |
|------------------------|------------------|
| Wear resistance | 0-4 |
| Cutting resistance | 0-5 |
| Tear resistance | 0-4 |
| Penetration resistance | 0-4 |



| Test criteria | Assessment gauge |
|---|------------------|
| Burning behaviour | 0-4 |
| Contact heat | 0-4 |
| Convective heat | 0-3 |
| Radiated heat | 0-4 |
| Exposure to small particles of sprayed melted metal | 0-4 |
| Exposure to large quantities of liquid metal | 0-4 |



Breathable, water repellent, fully coated latex grip glove

Features:

- 15 gauge Nylon/Spandex liner
- Full latex foam coating, with extra grip coating
- Reinforced safety cuff
- Seamless knit
- CATII / EN388 Performance level: 3.1.4.2
- CATII / EN407 Performance level: X.1.X.X.X.X

Benefits:

- Less perspiration in hot environments, yet warm and

dry in wet environments

- Latex coating provides outstanding grip and abrasion resistance
- Liquid-repellent and breathable
- Optimum fit and maximum touch sensitivity

Applications:

Suitable for wet working environments including aerospace, agriculture, automotive, construction, manufacturing, landscaping, logistics, rail, utilities, warehousing

| Sizes | Art. No. | P. Qty |
|---------------|-------------------|--------|
| Small / 7 | 899.405507 | 6 |
| Medium / 8 | 899.405508 | |
| Large / 9 | 899.405509 | |
| X Large / 10 | 899.405510 | |
| XX Large / 11 | 899.405511 | |

ORIGINAL MECHANIX GLOVE



Mechanix gloves that provide the perfect blend of flexibility and protection

Features & Benefits:

- Form-fitting TrekDry® material keeps working hands cool and comfortable
- Flexible thermoplastic rubber (TPR) closure provides a secure fit to the wrist
- Industrial grade hook and loop
- Abrasion resistant synthetic leather palm construction
- Double stitched index finger and thumb construction improves durability
- Seamless synthetic leather palm provides optimal dexterity

- Touchscreen capable synthetic leather keeps you connected while you work
- 100% machine washable
- CATII / EN388 Performance level: 3.1.2.1.

Applications:

- Multi-purpose
- Automotive Work
- Maintenance & Repair
- Equipment Operation
- Construction
- Drivers

| Sizes | Art. No. | P. Qty |
|---------------|-------------------|--------|
| Small / 7 | 899.406307 | 1 |
| Medium / 8 | 899.406308 | |
| Large / 9 | 899.406309 | |
| X Large / 10 | 899.406310 | |
| XX Large / 11 | 899.406311 | |



FASTFIT MECHANIX GLOVE



Mechanix gloves that have earned the trust of hardworking trade professionals and enthusiasts from the building site to the garage

Features & Benefits:

- Form-fitting TrekDry® material keeps working hands cool and comfortable
- Stretch-elastic cuff provides a secure fit to the wrist
- Reinforced thumb and index finger provide added durability
- Anatomically designed two-piece palm design eliminates material bunching
- Pinched fingertip construction improves fingertip stretch and durability
- High-dexterity synthetic leather provides optimal dexterity
- Touchscreen capable

synthetic leather keeps you connected while you work

- 100% machine washable
- CATII / EN388 Performance level: 2.1.2.1.

Applications:

- Automotive Work
- Maintenance & Repair
- Equipment Operation
- Construction
- Drivers

| Sizes | Art. No. | P. Qty |
|---------------|-------------------|--------|
| Small / 7 | 899.406207 | 1 |
| Medium / 8 | 899.406208 | |
| Large / 9 | 899.406209 | |
| X Large / 10 | 899.406210 | |
| XX Large / 11 | 899.406211 | |



IMPACT MECHANIX GLOVE



Mechanix gloves that provide full coverage hand protection

Features & Benefits:

- Impact Guard protects first knuckle with EVA foam padding
- Thermoplastic rubber (TPR) knuckle guard and pinch-point finger protection
- D30® palm padding absorbs and dissipates high-impact energy through the palm
- Form-fitting TrekDry® material helps keep hands cool and comfortable
- Thermoplastic Rubber (TPR) closure with hook and loop provides a secure fit
- Armortex® palm reinforcement panel
- Dual-layer internal fingertip

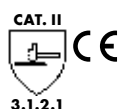
reinforces the index and thumb for added durability

- Embossed and textured index finger and thumb provides grip
- Touchscreen capable synthetic leather keeps you connected while you work
- 100% machine washable
- CATII / EN388 Performance level: 3.1.2.1

Applications:

- Multi-purpose
- Automotive Work
- Maintenance & Repair
- Equipment Operation
- Construction
- Towing and Transportation

| Sizes | Art. No. | P. Qty |
|---------------|-------------------|--------|
| Small / 7 | 899.406707 | 1 |
| Medium / 8 | 899.406708 | |
| Large / 9 | 899.406709 | |
| X Large / 10 | 899.406710 | |
| XX Large / 11 | 899.406711 | |



ELECTRICAL PROTECTOR GLOVES



Class 0 Rubber Insulating Gloves

Features & Benefits:

- 11" natural latex rubber
- Black color
- Unsupported and Unlined
- Smooth finish and beaded cuff
- Meets ASTM D 120 IEC EN60903 Class 0 Low Voltage Rating – 1000V
- Should always be worn with OVER rubber insulating gloves to meet OSHA/ASTM Standards to provide mechanical protection against cuts, abrasions and punctures

| Size | Art. No. | P. Qty. |
|---------------|-------------------|---------|
| Medium / 8 | 899.999242 | 1 |
| Large / 9 | 899.999243 | |
| X Large / 10 | 899.999244 | |
| XX Large / 11 | 899.999245 | |

LEATHER PROTECTOR GLOVES



Leather gloves designed to protect and maintain Electrical gloves

Features & Benefits:

- 10" Goatskin glove designed for use with low voltage class 0 rubber insulating gloves
- Should always be worn with OVER rubber insulating gloves to meet OSHA/ASTM Standards to provide mechanical protection against cuts, abrasions and punctures

| Size | Art. No. | P. Qty. |
|---------------|-------------------|---------|
| Medium / 8 | 899.M60603 | 1 |
| Large / 9 | 899.M60604 | |
| X Large / 10 | 899.M60605 | |
| XX Large / 11 | 899.M60606 | |

HI-VIS FREEZER JACKET



| Black | | |
|-------|--------------|---------|
| Size | Art. No. | P. Qty. |
| S | 899.0717-S | 1 |
| M | 899.0717-M | |
| L | 899.0717-L | |
| XL | 899.0717-XL | 1 |
| 2XL | 899.0717-2XL | |
| 3XL | 899.0717-3XL | |

* Available through On Demand

Features & Benefits:

- Woven diamond quilted polyester with 3.5 oz (120 GSM) insulation
- Double-stitched StarTech™ reflective tape
- CSA Z96-15 Class 1 Level 2
- Rib knit gusseted action back for working comfort
- Rib knit cuffs
- 2 front slash pockets
- 3 inside storage pockets: 2 lower, 1 chest cell phone
- Black micro fleece comfort collar

HI-VIS SAFETY T-SHIRT



Features & Benefits:

- Soft premium moisture-wicking polyester
- CSA Z96-15 Class 2 Level 2
- StarTech™ reflective tape
- 6990R - Reflective patch on each sleeve
- Rib crew neck
- Chest pocket with hook and loop closure
- Radiophone clip strap

| ORANGE | | |
|--------|--------------|---------|
| Size | Art. No. | P. Qty. |
| S | 899.0790-S | 1 |
| M | 899.0790-M | |
| L | 899.0790-L | |
| XL | 899.0790-XL | 1 |
| 2XL | 899.0790-2XL | |
| 3XL | 899.0790-3XL | |
| 4XL | 899.0790-4XL | |
| 5XL | 899.0790-5XL | |

* Available through On Demand

| YELLOW | | |
|--------|--------------|---------|
| Size | Art. No. | P. Qty. |
| S | 899.0791-S | 1 |
| M | 899.0791-M | |
| L | 899.0791-L | |
| XL | 899.0791-XL | 1 |
| 2XL | 899.0791-2XL | |
| 3XL | 899.0791-3XL | |
| 4XL | 899.0791-4XL | |
| 5XL | 899.0791-5XL | |

HI-VIS SAFETY SASH



Features & Benefits:

- Premium 2" elastic
- Adjustable elastic waist band and chest straps
- Startech™ reflective tape
- 4 point tear-away
- Quick-release waist buckle
- Packed in polybag

| Size | Colour | Art. No. | P. Qty. |
|------|--------|------------|---------|
| O/S | Orange | 899.075591 | 1 |
| | Yellow | 899.075592 | |

SURVEYOR'S SAFETY VEST



Features & Benefits:

- 150 denier woven twill polyester
- CSA Z96-15 Class 2 Level 2
- StarTech™ reflective tape
- Brass snap front
- Radiophone pocket on chest
- 2 radiophone clip straps
- Cooling underarm mesh vents
- Back ruler slot
- Large back pack pouch with zipper access
- 4 front pockets with brass surveyor tape dispenser grommets
- 5 pen pockets
- 7 other all-purpose storage pockets
- D ring access slot

| ORANGE | | |
|--------|--------------|---------|
| Size | Art. No. | P. Qty. |
| S | 899.0792-S | 1 |
| M | 899.0792-M | |
| L | 899.0792-L | |
| XL | 899.0792-XL | |
| 2XL | 899.0792-2XL | |
| 3XL | 899.0792-3XL | 1 |
| 4XL | 899.0792-4XL | |
| 5XL | 899.0792-5XL | |

| YELLOW | | |
|--------|--------------|---------|
| Size | Art. No. | P. Qty. |
| S | 899.0793-S | 1 |
| M | 899.0793-M | |
| L | 899.0793-L | |
| XL | 899.0793-XL | |
| 2XL | 899.0793-2XL | |
| 3XL | 899.0793-3XL | 1 |
| 4XL | 899.0793-4XL | |
| 5XL | 899.0793-5XL | |

* Available through On Demand

TEAR AWAY SAFETY VEST



Features & Benefits:

- Tricot polyester interlock front
- Full mesh back panel
- Zipper front with tear-away on left side
- CSA Z96-15 Class 2 Level 2
- StarTech™ reflective tape
- 5 point tear-away
- 4 sealed pockets
- 2 radiophone clip straps
- D-ring access slot

| ORANGE | | |
|--------|--------------|---------|
| Size | Art. No. | P. Qty. |
| S | 899.0735-S | 1 |
| M | 899.0735-M | |
| L | 899.0735-L | |
| XL | 899.0735-XL | |
| 2XL | 899.0735-2XL | |
| 3XL | 899.0735-3XL | 1 |
| 4XL | 899.0735-4XL | |
| 5XL | 899.0735-5XL | |

| YELLOW | | |
|--------|--------------|---------|
| Size | Art. No. | P. Qty. |
| S | 899.0736-S | 1 |
| M | 899.0736-M | |
| L | 899.0736-L | |
| XL | 899.0736-XL | |
| 2XL | 899.0736-2XL | |
| 3XL | 899.0736-3XL | 1 |
| 4XL | 899.0736-4XL | |
| 5XL | 899.0736-5XL | |

* Available through On Demand

EARMUFFS



EAR DEFENDERS WITH A UNIVERSAL HEADBAND

Art. No. 899.300.280

Features:

- Headband with ventilation holes
- Wide and comfortable sealing pads
- Suitable for wearing with glasses or safety glasses
- Lightweight- only weighs 210 g!

Benefits:

- Robust design due to wire headband
- Supreme comfort
- Hygienic and easy to clean
- Great insulation, even in the low range
- Allows speech to heard while worn

Standards:

- SNR 24 dB
- H - 28 dB
 - M - 21 dB
 - L - 14 dB

EAR DEFENDERS WNA 200



Comfortable earmuffs that provide the highest noise reduction

Features and Benefits:

- Padded headband and soft sealing cushions
- Adapts to any head shape
- Suitable for areas with lots of noise
- High SNR value = 33 dB
- Simple, hygienic maintenance

TECHNICAL INFORMATION:

SNR attenuation value = 33 dB:

- L attenuation value = 24 dB
- M attenuation value = 31 dB
- H attenuation value = 35 dB

Applications

- Ideal for work places with noise levels that range between 102 dB and 111 dB

| Colour | Art. No. | P. Qty. |
|--------|------------|---------|
| Black | 899.300410 | 1 |

EAR DEFENDERS WNA 200/F



Hi-visibility earmuffs that provide excellent noise reduction

Features and Benefits:

- Padded headband and soft sealing cushions
- Adapts to any head shape
- Fluorescent muffs
- Suitable for areas with lots of noise
- High SNR value = 32 dB
- Simple, hygienic maintenance

TECHNICAL INFORMATION:

SNR attenuation value = 32 dB:

- L attenuation value = 22 dB
- M attenuation value = 29 dB
- H attenuation value = 36 dB

Applications

- Ideal for work places with noise levels that range between 102 dB and 111 dB

| Colour | Art. No. | P. Qty. |
|----------------------|------------|---------|
| Hi-Visibility Yellow | 899.300430 | 1 |

EAR PLUGS X-200



Art. No. 899.300337 Qty: 200 PR/BG

Features:

- Pink Colour for easy visibility
- Imprinted X
- Soft polyurethane foam material
- Tapered fit
- Disposable

Benefits:

- Very comfortable to wear for extended periods of time
- Slow recovery foam provides excellent and reliable noise reduction
- Closed surface prevents the penetration of foreign bodies and dirt particles in the plugs
- Tapered ear plugs are easy to insert and remove

Standards:

- SNR 33 dB
- H - 33 dB
 - M - 30 dB
 - L - 29 dB

CORDED EAR PLUGS



CORDED EAR PLUGS X-100

Art. No. 899.300332 Qty: 100 PR/BX

Features:

- Soft polyurethane foam material
- Tapered fit
- Green Neon Color
- Safety cord connects earplugs
- Poly bag keeps each pair clean

Benefits:

- Very comfortable to wear for extended periods of time
- Slow recovery foam provides excellent and reliable noise reduction
- Soft, optimum adaptation to the ear canal
- Tapered ear plugs are easy to insert and remove

Standards:

- SNR 37 dB
- H - 36 dB
 - M - 34 dB
 - L - 34 dB

CORDED EAR PLUGS

Art. No. 899.300338 Qty: 3 PR/PK



Features:

- Cloth cord connects earplugs
- Pre-molded, Tri-flange design
- Comes with carrying case

Benefits:

- Efficient and easy insertion
- Very comfortable to wear
- Soft, optimum adaptation to the ear canal
- Reusable

Standards:

- SNR 27 dB
- H - 27 dB
 - M - 24 dB
 - L - 22 dB

EAR PLUG DISPENSER



Art. No. 899.300335

Features:

- Easy-to-use and robust ear plug dispenser
- Wall mountable
- Fits 400 Pairs
- Ear plugs sold separately

Benefits:

- Grid rotation system prevents multiple plugs from falling out
- Catch shelf prevents the plugs from falling to the floor

BANDED EAR PLUGS



Art. No. 899.300320

Features:

- Soft polyurethane foam material
- Arrow pod shape
- Orange color pod and band

Benefits:

- Supra-aural pods rest partially in the ear for a balance of comfort and protection
- Patented specially curved band design prevents ear pods from touching dirty or contaminated surfaces when set down
- Soft, optimum adaptation to the ear canal
- Tapered ear plugs are easy to insert and remove

Standards:

- NRR 25 dB

Recommended:

Replacement Pods: 899.300321 / Qty: 5 PR

FOLDING EAR PLUG BAND X-300



Art. No. 899.300341

Features:

- Hinged joints allow band to fold
- Designed to wear under the chin
- Oval pod shape
- Lightweight at only 8 g!

Benefits:

- Hinged joint allows folding so that it can be placed and carried practically and comfortably in any shirt or jacket pocket
- Fixing of the band prevents disturbing noises caused by friction
- Oval plugs perfectly close up the ear canal
- Tapered ear plugs are easy to insert and remove

Standards:

- SNR 23 dB
- H - 26 dB
 - M - 18 dB
 - L - 17 dB

Recommended:

Replacement Pods:
899.300340 / Qty: 5 PR

UNCORDED EAR PLUGS



EAR PLUGS – INDIVIDUALLY WRAPPED PAIRS

Art. No. 899.300905 Qty: 200 PR/BX

Features:

- Soft polyurethane foam material
- Tapered fit
- Wurth red color
- Poly bag keeps each pair clean

Benefits:

- Very comfortable to wear for extended periods of time
- Slow recovery foam provides excellent and reliable noise reduction
- Soft, optimum adaptation to the ear canal
- Tapered ear plugs are easy to insert and remove

Standards:

- NRR 32 dB

ANTI-FATIGUE KNEELING MAT



Art. No. 899.500250

Memory foam kneeling mat to reduce fatigue in knees and lower back

Features & Benefits:

- Helps to reduce fatigue in knees and lower back
- 1" heavy duty closed-cell foam rubber
- Offers a layer of protection against hard or rough surfaces
- Soft alternative to a plastic sheet
- Non-absorbing material
- Lightweight, with built-in carrying handle
- Measures 14 x 20.5"

Applications:

Ideal for shop mechanics, technicians, flooring, gardening, landscape work, or any job that involves kneeling down frequently.

ANTI-FATIGUE INSOLES



| REGULAR FIT | | |
|--------------------|-------------|--------|
| Size | Art. No. | P. Qty |
| W - 7/8/9 | 5362.020010 | 1 |
| M - 8/9, W - 10/11 | 5362.020020 | |
| M - 10/11 | 5362.020030 | |
| M - 12/13 | 5362.020040 | |
| M - 14/15 | 5362.020050 | |

Memory foam insoles that form to your feet to provide supreme comfort

Features:

- Memory foam technology with custom formulated foam provides excellent energy return
- Relieves pain and fatigue
- Anti-microbial
- Extreme comfort

Benefits:

- Cooler than traditional memory foam insoles
- Helps to reduce stress on feet
- Increases productivity
- **SLIM** version is for low profile footwear, such as dress shoes and/or casual footwear



| SLIM FIT | | |
|--------------------|-------------|--------|
| Size | Art. No. | P. Qty |
| W - 7/8/9 | 5362.020060 | 1 |
| M - 8/9, W - 10/11 | 5362.020070 | |
| M - 10/11 | 5362.020080 | |
| M - 12/13 | 5362.020090 | |

DISPOSABLE OVERSHOE



Hygiene and dirt protection overshoe for protection against fluids and dirt

Technical Info:

- Colour: Blue
- Size: Universal
- Material: PE - Polyethylene

Applications:

- Cleanrooms, chemical industry, pharmaceuticals, cosmetic manufacturing, food processing

| Description | Art. No. | P. Qty. |
|--------------|----------|----------|
| Regular Sole | 899.0281 | 100 pcs. |

DISPOSABLE OVERSHOE WITH OUTER SOLE



Overshoe made from air-permeable polypropylene fleece with non-slip and waterproof outsole

Technical Info:

- Colour: Blue, White
- Size: Universal
- Material: Polypropylene / polyethylene

Applications:

- Cleanrooms, chemical industry, pharmaceuticals, cosmetic manufacturing, food processing

| Description | Art. No. | P. Qty. |
|---------------|----------|---------|
| Non-Slip Sole | 899.0286 | 50 pcs. |

COMPLIANCE HARNESS



Art. No. 899.03202A

Features:

- Full Body Harness with durability, comfort and high visibility colour
- Certified to **CSA Z259.10**
- 3 points of adjustment ensuring a good fit (2 leg, 1 chest)
- Pass-Thru leg and chest buckles for quick donning
- Sub-pelvic strap for added safety and support
- Fall indicator for easier inspection before use
- Large dorsal D-ring for easy connection
- Meets or exceeds all applicable OSHA standards
- Polyester webbing
- Rated for 400 lb. capacity

CONTRACTOR HARNESS



Art. No. 899.03220A

Features:

- Full Body Harness with durability, comfort and high visibility colour
- Certified to **CSA Z259.10**
- Fully adjustable for a universal fit
- 5 points of adjustment ensure a good fit (2 leg, 2 torso, 1 chest)
- Pass-Thru leg and chest buckles for quick donning
- Grommited leg straps
- Sub-pelvic strap for added safety and support
- Polyester webbing
- Fall indicator for easier inspection before use
- Large dorsal D-ring for easy connection
- Rated for 400 lb. capacity

PEAKPRO HARNESS



Art. No. 899.03210A

Features:

- Full Body Harness with durability, comfort and high visibility colour
- Certified to **CSA Z259.10**
- Two-tone colour scheme for ease of donning
- Padded shoulder, back and leg straps for all-day comfort
- Fully adjustable for a universal fit
- 5 points of adjustment ensuring a good fit (2 leg, 2 torso, 1 chest)
- Sub-pelvic strap for added safety and support
- Fall indicator for easier inspection before use
- Large dorsal D-ring for easy connection
- Polyester webbing
- Rated for 400 lb. capacity
- Two heavy duty lanyard park loops
- Two removable trauma straps included
- Steel reinforced strap adjustments
- Quick connects at chest, torso and leg
- RFID inspection enabled

COMPLIANCE E4 SHOCK ABSORBING LANYARD



Art. No. 899.032006

Shock Pack - Single Leg - Snap Hooks - 6' length

Features:

- SP Lanyard with durability, comfort and high visibility colour
- Certified to **CSA Z259.11-05** standards
- Made with a superior grade, heavy-duty polyester webbing for maximum strength
- A tear-away absorber limits the arrest force to a maximum of 900 lbs for the E4 category
- Rated E4 (worker weight of 100 to 254 lbs)

CONTRACTOR E4 SHOCK ABSORBING LANYARD



Art. No. 899.032026

Shock Pack - Single Leg - 1 Snap + Form 6' length

Features:

- SP Lanyard with durability, comfort and high visibility colour
- Certified to **CSA Z259.11-05** standards
- Made with a superior grade, heavy-duty polyester webbing for maximum strength
- A tear-away absorber limits the arrest force to a maximum of 900 lbs for the E4 category
- Rated E4 (worker weight of 100 to 254 lbs)

LEADING EDGE SELF RETRACTING LANYARD



Art. No. 899.032302

with 1" Webbing - Alum. Housing - Type 2 - Snap Hook - 6'

Features:

- Certified to **CSA Z259.2.1**
- Aluminum units are available using heavy-duty polyester webbing
- The anchor point incorporates a heavy-duty, durable and convenient swivel eye
- Sewn-in indicator on the lifeline itself for maximum safety
- Rated for 300 lb capacity
- Leading Edge (LE) self-retracting lifelines are designed to protect the worker when operating near an edge and where a fall hazard exists that could cause the lifeline to come into contact with the edge
- Lightweight units can be mounted on a worker's harness for better mobility and range of motion
- All LE products are clearly marked to ensure the correct SRL is used for Leading Edge applications

FIRST AID KIT – FEDERAL TYPE B

Art. No. 898.110000 Metal Case



Features:

- **For Type B workplaces with 6-19 workers**
- Unit boxes provide quick identification of contents and maintain a neater, more organized kit
- Item required but not included: First Aid Station sign (898.000990)
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Areas of application:

Common federal employers include the following interprovincial and international industries:

- Banks
- Railways, highway and air transport
- Ferries, tunnels, bridges and canals
- Telephone and telegraph systems
- Pipelines
- Radio and television broadcasting
- and cable systems
- Shipping and shipping services
- Employment in the operation of ships, trains and aircraft
- Licensed grain elevators, and certain feed mills and feed warehouses, flour mills and grain seed clearing plants
- Federal public service and persons employed by the public service and Crown corporations and agencies

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Accident/Illness Record Book | 898.000310 | 14237 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 10 | 1 box (100) |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| Conforming Stretch Bandage, 7.6 cm x 3.7 m | 898.000540 | 02240 | 6 | 1 |
| CPR Face Shield, w/One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 12 | 1 box (25) |
| Gauze Sponges, 10.2 x 10.2 cm, 8-Ply | 898.000690 | 03269 | 40 | 1 box (200) |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 8 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 48 | 1 box (100) |
| Scissors, Blunt Tip Nickel-Plated, 10.5 cm | 898.000205 | 19161 | 1 | 1 |
| Splinter Forceps 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 2 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 6 | 1 |

FIRST AID KIT – FEDERAL TYPE C

Art. No. 898.120000 Metal Case



Features:

- **For Type C workplaces with 20-199 workers**
- Unit boxes provide quick identification of contents and maintain a neater, more organized kit
- Item required but not included: First Aid Station sign (898.000990)
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

Areas of application:

Common federal employers include the following interprovincial and international industries:

- Banks
- Railways, highway and air transport
- Ferries, tunnels, bridges and canals
- Telephone and telegraph systems
- Pipelines
- Radio and television broadcasting
- and cable systems
- Shipping and shipping services
- Employment in the operation of ships, trains and aircraft
- Licensed grain elevators, and certain feed mills and feed warehouses, flour mills and grain seed clearing plants
- Federal public service and persons employed by the public service and Crown corporations and agencies

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Abdominal/Combine Pad 12.7 x 22.9 cm | 898.000330 | 03505 | 6 | 1 |
| Accident/Illness Record Book | 898.000310 | 14237 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 40 | 1 box (100) |
| Conforming Stretch Bandage, 7.6 cm x 3.7 m | 898.000540 | 02240 | 24 | 1 |
| CPR Face Shield, w/One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 24 | 1 box (25) |
| Gauze Sponges, 10.2 x 10.2 cm, 8-Ply | 898.000690 | 03269 | 200 | 1 box (200) |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000920 | 14363 | 2 | 25 |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 40 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 100 | 1 box (100) |
| Scissors, Universal Paramedic, 15.9 cm | N/A | N/A | 1 | 1 |
| Splinter Forceps 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 4 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 8 | 1 |

FIRST AID KIT – FEDERAL TRUCK

Art. No. 898.120020 Plastic Case



Features:

- General-purpose first aid kits designed for **transport vehicles**.
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety Type A Kit
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Areas of application:

Common federal employers include the following interprovincial and international industries:

- Banks
- Railways, highway and air transport
- Ferries, tunnels, bridges and canals
- Telephone and telegraph systems
- Pipelines
- Radio and television broadcasting and cable systems
- Shipping and shipping services
- Employment in the operation of ships, trains and aircraft
- Licensed grain elevators, and certain feed mills and feed warehouses, flour mills and grain seed clearing plants
- Federal public service and persons employed by the public service and Crown corporations and agencies

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Accident/Illness Record Book, Small | 898.000310 | 14237 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 10 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 6 | 1 box (100) |
| Blanket, Emergency Foil/Mylar, 142.2 x 203.2 cm | 898.000380 | 26297 | 1 | 1 |
| Cold Pack Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 1 | 1 |
| Conforming Stretch Bandage, 7.6 cm x 3.7 m | 898.000540 | 02240 | 2 | 1 |
| CPR Face Shield, w/One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 6 | 1 box (100) |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 2 | 1 box (25) |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 4 | 1 box (25) |
| Gauze Sponges, 10.2 x 10.2 cm, 8-Ply | 898.000690 | 03269 | 10 | 1 box (200) |
| Hand Sanitizer Antiseptic Gel foil packets, 3.7 mL | N/A | N/A | 1 | 1 box (100) |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 4 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 12 | 1 box (100) |
| Scissors, Blunt Tip Nickel-Plated, 10.5 cm | 898.000205 | 19161 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Splinter-Out® | 898.000180 | 19181 | 2 | 1 box (10) |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 2 | 1 |

FIRST AID KIT – FEDERAL WORKPLACE STANDARD



Art. No. 898.120025 Metal Case

Features:

- Comprehensive first aid kits contain supplies for treating common injuries, wounds and burns.
- Ideal for general industry and warehouses.
- Contains a full assortment of practical, single-use disposable products to treat injuries in a sanitary way.
- **Exceeds minimum standards for Occupational Health and Safety Type B Kit.**
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

Areas of application:

Common federal employers include the following interprovincial and international industries:

- Banks
- Railways, highway and air transport
- Ferries, tunnels, bridges and canals
- Telephone and telegraph systems
- Pipelines
- Radio and television broadcasting and cable systems
- Shipping and shipping services
- Employment in the operation of ships, trains and aircraft
- Licensed grain elevators, and certain feed mills and feed warehouses, flour mills and grain seed clearing plants
- Federal public service and persons employed by the public service and Crown corporations and agencies

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|------------|------------------|----------|--------------|
| Abdominal/Combine Pad 12.7 x 22.9 cm | 898.000330 | 03505 | 1 | 1 |
| Accident/Illness Record Book, Small | 898.000310 | 14237 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 20 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 100 | 1 box (100) |
| Blanket, Emergency Foil/Mylar, 142.2 x 203.2 cm | 898.000380 | 26297 | 1 | 1 |
| Butterfly Skin Closures, Assorted | 898.000016 | 03674 | 10 | 1 box (20) |
| Coban™ Self-Adherent Wrap, 5.1 cm x 4.6 m | 898.000860 | 08302 | 1 | 1 |
| Cold Pack, Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 2 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| Compress Bandage, Large Dressing, 11.4 x 12.7 cm | 898.000550 | 02567 | 1 | 1 |
| Conforming Stretch Bandage, 7.6 cm x 3.7 m | 898.000540 | 02240 | 6 | 1 |
| Cotton Tipped Applicators, 7.6 cm | 898.000050 | 20145 | 100 | 1 box (100) |
| CPR Face Mask, w/One-Way Valve, in Plastic Case | 898.000225 | 17746 | 1 | 1 |
| Elastic Support/Compression Bandage, 5.1 cm x 4.6 m | 898.000850 | 08048 | 1 | 1 |
| Elastic Support/Compression Bandage, 7.6 cm x 4.6 m | 898.000350 | 02026 | 1 | 1 |
| Eye Dressing Pad | 898.000760 | 04270 | 2 | 1 box (12) |
| Eye Wash, 20 ml | N/A | N/A | 6 | 1 box (60) |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 50 | 1 box (100) |
| Fabric Bandages, Fingertip Large, 4.4 x 7.6 cm | 898.000006 | 03017 | 12 | 1 box (50) |
| Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm | 898.000004 | 03016 | 12 | 1 box (50) |
| Fabric Bandages, Knuckle, 3.8 x 7.6 cm | 898.000005 | 03025 | 12 | 1 box (50) |
| Fabric Bandages, Large Patch, 5.1 x 7.6 cm | 898.000000 | 03035 | 12 | 1 box (50) |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 0205 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 1 | 1 box (25) |
| First Aid Kit Inspection Report Card | 898.000999 | 14460 | 1 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 25 | 1 box (25) |
| Gauze Sponges, 10.2 x 10.2 cm, 8-Ply | 898.000690 | 03269 | 40 | 1 box (200) |
| Hand Cleansing Towelettes, Antimicrobial | 898.000790 | 06065 | 6 | 1 box (100) |
| Hand Sanitizer, Antiseptic Gel, 118 mL | N/A | N/A | 6 | 1 box (100) |
| Hydrogen Peroxide, 250 mL | N/A | N/A | 1 | 1 |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000920 | 14363 | 2 | 25 |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 8 | 2 |
| Non-Adherent Island Dressings, 5.1 x 9.5 cm | 898.000670 | 03185 | 2 | 1 box (50) |
| Non-Adherent Pads, 5.1 x 7.6 cm | 898.000025 | 03165 | 6 | 1 box (25) |
| Non-Adherent Pads, 7.6 x 10.2 cm | 898.000650 | 03167 | 4 | 1 box (25) |
| Plastic Bandages, Assorted Sizes | 898.000003 | 03526 | 100 | 1 box (100) |
| Safecross® Antiseptic Skin Cleanser, 125 mL, Spray Pump | 898.000140 | 06104 | 1 | 1 |
| Scissors, Blunt Tip Nickel-Plated, 10.5 cm | 898.000205 | 19161 | 1 | 1 |
| Scissors, Surgical Blunt/Sharp, 14 cm | 898.000200 | 19091 | 1 | 1 |
| 2nd Skin® Moist Burn Pads, Medium, 5.1 x 7.6 cm | 898.000780 | 05636 | 4 | 4 |
| Splinter Forceps 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Splinter Forceps, Fine Point, 11.4 cm | 898.000950 | 19156 | 1 | 1 |
| Splinter-Out® | 898.000180 | 19181 | 10 | 1 box (10) |
| Steri-Strip® Closures | 898.000017 | 03486 | 3 | 1 box (19) |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 2 | 1 |
| Tegaderm™, Transparent Film Dressings, 6 x 7 cm | 898.000020 | 07634 | 2 | 6 |
| Thermometer, Oral/Axillary, Tempa-Dots® | N/A | N/A | 4 | 1 box (100) |
| Tongue Depressors Senior 1.9 x 15.2 cm | 898.000900 | 14004 | 4 | 1 box (25) |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 6 | 1 |
| Water-Jel® Burn Dressing, 10.2 x 10.2 cm | 898.000151 | 06629 | 1 | 1 |
| Water-Jel® Cool Jel, 118 mL | 898.000035 | 06635 | 1 | 1 |
| WoundSeal® Topical Powder | 898.000060 | 06025 | 2 | 1 pkg (2) |

FIRST AID KIT – ONTARIO WORKPLACE



SECTION 8 Art. No. 898.130000 Plastic Case

Features:

- Pursuant to Section 8; for **workplaces with 1-5 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included:
 - accident record book (898.000310), inspection cards (898.000999)
 - With standard bilingual "First Aid Kit" image
 - Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|------------|------------------|----------|--------------|
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02018 | 2 | 4 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 4 | 1 box (25) |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 12 | 1 box (100) |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 12 | 12 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 1 | 1 |



SECTION 9 Art. No. 898.130005 Plastic Case

Features:

- Pursuant to Section 9; for **workplaces with 6-15 workers**
- Unit boxes provide quick identification of contents and maintain a neater, more organized kit
- Item required but not included: First Aid Station sign (898.000990)
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|------------|------------------|----------|--------------|
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 4 | 1 |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| Gauze Bandage Roll, 10.2 cm x 4.6 m | 898.000610 | 02520 | 4 | 2 |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02018 | 4 | 4 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 12 | 1 box (25) |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 24 | 1 box (100) |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 12 | 12 |
| Splint Padding, 10.2 x 20.3 cm | 898.000440 | 02028 | 2 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 6 | 1 |
| Wire Splint Aluminum Mesh, 9.8 x 30.5 cm | 898.000430 | 02027 | 1 | 1 |



SECTION 10 Art. No. 898.130015 Metal Case

Features:

- Pursuant to Section 10; for **workplaces with 16-199 workers**
- Unit boxes provide quick identification of contents and maintain a neater, more organized kit
- Item required but not included: First Aid Station sign (898.000990)
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|------------|------------------|----------|--------------|
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 6 | 1 |
| Emesis Basin Plastic, 20.3 cm | 898.000880 | 12129 | 1 | 1 |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| Gauze Bandage Roll, 10.2 cm x 4.6 m | 898.000400 | 02022 | 8 | 2 |
| Gauze Bandage Roll, 2.5 cm x 4.6 m | 898.000470 | 02102 | 12 | 6 |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02018 | 8 | 4 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 48 | 1 box (25) |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 48 | 1 box (100) |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 24 | 12 |
| Splint Padding, 10.2 x 20.3 cm | 898.000440 | 02028 | 2 | 1 |
| Splint Set, Wood Assorted Sizes | 898.000480 | 02103 | 6 | 6 |
| Tape, Clear Plastic, 2.5 cm x 1.4 m | 898.000030 | 07616 | 2 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 12 | 1 |

FIRST AID KIT – ONTARIO TRUCK



Art. No. 898.130020 Plastic Case

Features:

- General-purpose first aid kit designed for **transport vehicles**
- Contains supplies to treat minor injuries
- Exceeds Ontario's Workplace Safety and Insurance Board regulations for workplaces with up to five employees per shift
- Complete with carrying handle
- Wall mountable
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 4 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 6 | 1 box (100) |
| Cold Pack Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 6 | 1 box (100) |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 1 | 1 box (25) |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02018 | 2 | 4 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 4 | 1 box (25) |
| Hand Sanitizer Antiseptic Gel foil packets, 3.7 mL | N/A | N/A | 1 | 1 box (100) |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 2 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 12 | 1 box (100) |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 12 | 12 |
| Scissors, Blunt Tip Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter-Out® | 898.000180 | 19181 | 2 | 1 box (10) |
| Tape, Clear Plastic, 1.9 cm x 0.9 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 1 | 1 |

FIRST AID KIT – ONTARIO WORKPLACE STANDARD



Art. No. 898.130025 Metal Case

Features:

- Comprehensive kit contains various first aid supplies for treating common injuries, wounds and burns
- Includes personal protective devices to help reduce the transmission of communicable illnesses and diseases
- Exceeds Ontario's Workplace Safety and Insurance Board regulations for workplaces with up to fifteen employees per shift
- Complete with carrying handle
- Wall mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 36.8 x 46.5 x 16.2 cm (14-1/2" x 18-5/16" x 6-3/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|-------------------|------------------|----------|--------------|
| Abdominal/Combine Pad 12.7 x 22.9 cm | 898.000330 | 03505 | 4 | 1 |
| Accident/Illness Record Book, Small | 898.000310 | 14237 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 20 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 100 | 1 box (100) |
| Blanket, Emergency Foil/Mylar, 142.2 x 203.2 cm | 898.000380 | 26297 | 1 | 1 |
| Butterfly Skin Closures, Assorted | 898.000016 | 03674 | 10 | 1 box (20) |
| Coban™ Self-Adherent Wrap, 5.1 cm x 4.6 m | 898.000860 | 08302 | 1 | 1 |
| Cold Pack Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 2 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 4 | 1 |
| Compress Bandage, Large Dressing, 11.4 x 12.7 cm | 898.000550 | 02567 | 1 | 1 |
| Conforming Stretch Bandage, 10.2 cm x 3.7 m | 898.000600 | 02339 | 2 | 1 |
| Conforming Stretch Bandage, 5.1 cm x 3.7 m | 898.000530 | 02227 | 2 | 1 |
| Cotton Tipped Applicators, 7.6 cm | 898.000050 | 20145 | 100 | 1 box (100) |
| CPR Face Mask, w/One-Way Valve, in Plastic Case | 898.000225 | 17746 | 1 | 1 |
| Elastic Support/Compression Bandage, 5.1 cm x 4.6 m | 898.000850 | 08048 | 1 | 1 |
| Elastic Support/Compression Bandage, 7.6 cm x 4.6 m | 898.000350 | 08049 | 1 | 1 |
| Eye Dressing Kit w/1 Eye Pad & 1 Eye Shield | 898.000620 | 02527 | 2 | 1 |
| Eye Wash, 20 mL | N/A | N/A | 6 | 1 box (60) |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 50 | 1 box (100) |
| Fabric Bandages, Fingertip Large, 4.4 x 7.6 cm | 898.000006 | 03017 | 12 | 1 box (50) |
| Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm | 898.000004 | 03016 | 12 | 1 box (50) |
| Fabric Bandages, Knuckle, 3.8 x 7.6 cm | 898.000005 | 03025 | 12 | 1 box (50) |
| Fabric Bandages, Large Patch, 5.1 x 7.6 cm | 898.000000 | 03035 | 12 | 1 box (50) |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 1 | 1 box (25) |
| First Aid Kit Inspection Report Card | 898.000999 | 14460 | 1 | 1 |
| Gauze Bandage Roll, 10.2 cm x 4.6 m | 898.000400 | 02022 | 4 | 2 |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02018 | 4 | 4 |
| Gauze Pads, 5.1 x 5.1 cm | 898.000680 | 03186 | 4 | 1 box (25) |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 12 | 1 box (25) |
| Hand Cleansing Towelettes, Antimicrobial | 898.000790 | 06065 | 6 | 1 box (100) |
| Hand Sanitizer, Antiseptic Gel, 118 mL | N/A | N/A | 1 | 1 |
| Hand Soap 7 g | N/A | N/A | 1 | 1 |
| Hydrogen Peroxide, 250 mL | N/A | N/A | 1 | 1 |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000920 | 14363 | 2 | 25 |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 12 | 2 |
| Non-Adherent Island Dressings, 5.1 x 9.5 cm, | 898.000670 | 03185 | 2 | 1 box (50) |
| Non-Adherent Pads, 5.1 x 7.6 cm | 898.000025 | 03165 | 6 | 1 box (25) |
| Non-Adherent Pads, 7.6 x 10.2 cm | 898.000650 | 03167 | 4 | 1 box (25) |
| Plastic Bandages, Assorted Sizes | 898.000003 | 03526 | 100 | 1 box (100) |
| Safecross® Antiseptic Skin Cleanser, 125 mL, Spray Pump | 898.000140 | 06104 | 1 | 1 |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 12 | 12 |
| Scissors, Bandage, 14 cm | 898.000205 | 19161 | 1 | 1 |
| 2nd Skin® Moist Burn Pads, Medium, 5.1 x 7.6 cm | 898.000780 | 05636 | 4 | 4 |
| Splinter Forcep, Fine Point, 11.4 cm | 898.000950 | 19156 | 1 | 1 |
| Splinter-Out® | 898.000180 | 19181 | 10 | 1 box (10) |
| Steri-Strip® Closures | 898.000017 | 03486 | 3 | 1 box (19) |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 2 | 1 |
| Tegaderm™, Transparent Film Dressings, 6 x 7 cm | 898.000020 | 07634 | 2 | 6 |
| Thermometer, Oral/Axillary, Tempa-Dots® | N/A | N/A | 4 | 1 box (100) |
| Tongue Depressors Senior 1.9 x 15.2 cm | 898.000900 | 14004 | 4 | 1 box (25) |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 4 | 1 |
| Water-Jel® Burn Dressing, 10.2 x 10.2 cm | 898.000151 | 06629 | 1 | 1 |
| Water-Jel® Cool Jel, 118 mL | 898.000035 | 06635 | 1 | 1 |
| WoundSeal® Topical Powder - Intro Pack | 898.000060 | 06025 | 2 | 1 pkg (2) |

FIRST AID KIT – QUEBEC SECTION 5



Art. No. 898.140000 Plastic Case

Features:

- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Pursuant to **Section 5**; for vehicles used by, and for, the transport of workers
- Wall Mountable
- With standard bilingual "First Aid Kit" image;
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 5 | 1 box (100) |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| Gauze Bandage Roll, 10.2 cm x 9.1 m | 898.000510 | 02152 | 1 | 1 |
| Gauze Bandage Roll, 5.1 cm x 9.1 m | 898.000500 | 02150 | 1 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 5 | 1 box (25) |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 5 | 1 box (100) |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 12 | 12 |
| Scissors, Blunt Tip Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 9.1 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 2 | 1 |

FIRST AID KIT – QUEBEC SECTION 4



Art. No. 898.140005 Plastic Case

Art. No. 898.140010 Metal Case

Features:

- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Pursuant to **Section 4**; for workplaces, construction sites, vehicles which can carry more than 5 workers and where workers are more than 30 minutes from medical services
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 36.2 x 24.8 x 7.9 cm (14-1/4" x 9-3/4" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 25 | 1 box (100) |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 4 | 1 |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| Gauze Bandage Roll, 10.2 cm x 9.1 m | 898.000510 | 02152 | 4 | 1 |
| Gauze Bandage Roll, 5.1 cm x 9.1 m | 898.000500 | 02150 | 4 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 25 | 1 box (25) |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 25 | 1 box (100) |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 12 | 12 |
| Scissors, Blunt Tip Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 9.1 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 6 | 1 |

FIRST AID KIT – QUEBEC TRUCK



Art. No. 898.140020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**.
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety Section 5 Kit.
- Complete with carrying handle
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 5 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 6 | 1 box (100) |
| Cold Pack Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 6 | 1 box (100) |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 1 | 1 box (25) |
| Gauze Bandage Roll, 10.2 cm x 9.1 m | 898.000510 | 02152 | 1 | 1 |
| Gauze Bandage Roll, 5.1 cm x 9.1 m | 898.000500 | 02150 | 1 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 5 | 1 box (25) |
| Hand Sanitizer Antiseptic Gel foil packets, 3.7 mL | N/A | N/A | 1 | 1 box (100) |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 2 | 2 |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 5 | 1 box (100) |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 12 | 12 |
| Scissors, Blunt Tip Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter-Out® | 898.000180 | 19181 | 2 | 1 box (10) |
| Tape, Clear Plastic, 2.5 cm x 9.1 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 1 | 1 |

FIRST AID KIT – QUEBEC WORKPLACE STANDARD



Art. No. 898.140025 Metal Case

Features:

- Comprehensive first aid kits contain supplies for treating common injuries, wounds and burns.
- Ideal for general industry and warehouses.
- Contains a full assortment of practical, single-use disposable products to treat injuries in a sanitary way.
- **Exceeds minimum standards for Occupational Health and Safety Section 4 Kit**
- Wall mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 36.8 x 46.5 x 16.2 cm (14-1/2" x 18-5/16" x 6-3/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|------------|------------------|----------|--------------|
| Abdominal/Combine Pad 12.7 x 22.9 cm | 898.000330 | 03505 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 25 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 100 | 1 box (100) |
| Blanket, Emergency Foil/Mylar, 142.2 x 203.2 cm | 898.000380 | 26297 | 1 | 1 |
| Butterfly Skin Closures, Assorted | 898.000016 | 03674 | 10 | 1 box (20) |
| Coban™ Self-Adherent Wrap, 5.1 cm x 4.6 m | 898.000590 | 02333 | 1 | 1 |
| Cold Pack Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 2 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 4 | 1 |
| Compress Bandage, Large Dressing, 11.4 x 12.7 cm | 898.000550 | 02567 | 1 | 1 |
| Conforming Stretch Bandage, 10.2 cm x 3.7 m | 898.000600 | 02339 | 2 | 1 |
| Conforming Stretch Bandage, 5.1 cm x 3.7 m | 898.000530 | 02227 | 2 | 1 |
| Cotton Tipped Applicators, 7.6 cm | 898.000050 | 20145 | 100 | 1 box (100) |
| CPR Face Mask, W/One-Way Valve, in Plastic Case | 898.000225 | 17746 | 1 | 1 |
| Elastic Support/Compression Bandage, 5.1 cm x 4.6 m | 898.000850 | 08048 | 1 | 1 |
| Elastic Support/Compression Bandage, 7.6 cm x 4.6 m | 898.000350 | 08049 | 1 | 1 |
| Eye Dressing Pad | 898.000760 | 04270 | 2 | 1 box (12) |
| Eye Wash, 20 mL | N/A | N/A | 6 | 1 box (60) |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 50 | 1 box (100) |
| Fabric Bandages, Fingertip Large, 4.4 x 7.6 cm | 898.000006 | 03017 | 12 | 1 box (50) |
| Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm | 898.000004 | 03016 | 12 | 1 box (50) |
| Fabric Bandages, Knuckle, 3.8 x 7.6 cm | 898.000005 | 03025 | 12 | 1 box (50) |
| Fabric Bandages, Large Patch, 5.1 x 7.6 cm | 898.000000 | 03035 | 12 | 1 box (50) |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 1 | 1 box (25) |
| First Aid Kit Inspection Report Card | 898.000999 | 14460 | 1 | 1 |
| Gauze Bandage Roll, 10.2 cm x 9.1 m | 898.000510 | 02152 | 4 | 1 |
| Gauze Bandage Roll, 5.1 cm x 9.1 m | 898.000500 | 02150 | 4 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 25 | 1 box (25) |
| Hand Cleansing Towelettes, Antimicrobial | 898.000790 | 06065 | 6 | 1 box (100) |
| Hand Sanitizer, Antiseptic Gel, 118 mL | N/A | N/A | 1 | 1 |
| Hydrogen Peroxide, 250 mL | N/A | N/A | 1 | 1 |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000360 | 14359 | 2 | 25 |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 8 | 2 |
| Non-Adherent Island Dressings, 5.1 x 9.5 cm | 898.000670 | 03185 | 2 | 1 box (50) |
| Non-Adherent Pads, 5.1 x 7.6 cm | 898.000025 | 03165 | 6 | 1 box (25) |
| Non-Adherent Pads, 7.6 x 10.2 cm | 898.000650 | 03167 | 4 | 1 box (25) |
| Plastic Bandages, Assorted Sizes | 898.000003 | 03526 | 100 | 1 box (100) |
| Safecross® Antiseptic Skin Cleanser, 125 mL, Spray Pump | 898.000140 | 06104 | 1 | 1 |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 12 | 12 |
| Scissors, Surgical Blunt/Sharp, 14 cm | 898.000200 | 19091 | 1 | 1 |
| 2nd Skin® Moist Burn Pads, Medium, 5.1 x 7.6 cm | 898.000780 | 05636 | 4 | 4 |
| Splinter Forceps, Fine Point, 11.4 cm | 898.000950 | 19156 | 1 | 1 |
| Splinter-Out® | 898.000180 | 19181 | 10 | 1 box (10) |
| Steri-Strip® Closures | 898.000017 | 03486 | 3 | 1 box (19) |
| Tape, Clear Plastic, 2.5 cm x 9.1 m | 898.000030 | 07616 | 1 | 1 |
| Tegaderm™, Transparent Film Dressings, 6 x 7 cm | 898.000020 | 07634 | 2 | 6 |
| Thermometer, Oral/Axillary, Tempa-Dots® | N/A | N/A | 4 | 1 box (100) |
| Tongue Depressors Senior 1.9 x 15.2 cm | 898.000900 | 14004 | 4 | 1 box (25) |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 6 | 1 |
| Water-Jel® Burn Dressing, 10.2 x 10.2 cm | 898.000151 | 06629 | 1 | 1 |
| Water-Jel® Cool Jel, 118 mL | 898.000035 | 06635 | 1 | 1 |
| WoundSeal® Topical Powder - Intro Pack | 898.000060 | 06025 | 2 | 1 pkg (2) |

FIRST AID KIT – MANITOBA WORKPLACE STANDARD



Art. No. 898.180025 Metal Case

Features:

- Comprehensive first aid kits contain supplies for treating common injuries, wounds and burns.
- Ideal for general industry and warehouses.
- Contains a full assortment of practical, single-use disposable products to treat injuries in a sanitary way.
- Wall mountable
- **Exceeds minimum standards for Occupational Health and Safety 25 Workers Kit.**
- Dimensions: 38.7 x 41.9 x 14.3 cm (15-1/4" x 16-1/2" x 5-5/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|-------------------|------------------|----------|--------------|
| Abdominal/Combine Pad, 12.7 x 22.9 cm | 898.000330 | 03505 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 1 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes, 100'S | 898.000130 | 06061 | 6 | 1 box (100) |
| Blanket, Emergency, Foil/Mylar, 142.2 x 203.2 cm | 898.000380 | 26297 | 1 | 1 |
| Butterfly Skin Closures, Large, 1.3 x 7 cm | 898.000016 | 03674 | 5 | 1 |
| Butterfly Skin Closures, Medium, 1 x 4.6 cm | 898.000016 | 03674 | 5 | 1 |
| Coban, Self-Adherent Wrap, 5.1 cm x 4.6 m | 898.000860 | 08302 | 4 | 1 |
| Cold Pack, Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 2 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| Compress Bandage, Large, 11.4 x 12.7 cm | 898.000550 | 02567 | 1 | 1 |
| Conforming Stretch Bandage, 10.2 cm x 3.7 m | 898.000590 | 02333 | 2 | 1 |
| Conforming Stretch Bandage, 5.1 cm x 3.7 m | 898.000560 | 02331 | 2 | 1 |
| Cotton Tipped Applicators, 7.6 cm, Single-End, 100'S | 898.000050 | 20145 | 1 | 1 box (100) |
| CPR Face Mask, W/One-Way Valve, In Case | 898.000225 | 17746 | 1 | 1 |
| Elastic Support/Compression Bandage, 7.6 cm x 4.6 m | 898.000350 | 08049 | 1 | 1 |
| Eye Dressing Pads | 898.000770 | 04273 | 2 | 1 |
| Eye Wash, 20 mL | N/A | N/A | 6 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm, 50's | 898.000001 | 03026 | 1 | 1 box (100) |
| Fabric Bandages, Fingertip Large, 4.4 x 7.6 cm | 898.000006 | 03017 | 12 | 1 |
| Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm | 898.000004 | 03016 | 12 | 1 |
| Fabric Bandages, Knuckle, 3.8 x 7.6 cm | 898.000005 | 03025 | 12 | 1 |
| Fabric Bandages, Large Patch, 5.1 x 7.6 cm | 898.000000 | 03035 | 12 | 1 |
| Fabric Dressing Strip, 7.6 cm x 0.9 m | N/A | N/A | 1 | 1 |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g, 25's | N/A | N/A | 1 | 1 box (25) |
| First Aid Kit Inspection Report Card | 898.000999 | 14460 | 1 | 1 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 25 | 1 box (25) |
| Hand Cleansing Towelettes, Antimicrobial | 898.000790 | 06065 | 25 | 1 box (100) |
| Hand Sanitizer, Antiseptic Gel, 118 mL | N/A | N/A | 1 | 1 |
| Hydrogen Peroxide, 250 mL | N/A | N/A | 1 | 1 |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000920 | 14363 | 1 | 25 |
| Nitrile, Medical Examination Gloves, 2'S | 898.000045 | 18765 | 1 | 2 |
| Plastic Bandages, 1 x 3.8 cm, Junior | 898.000002 | 03041 | 20 | 1 box |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 40 | 1 |
| Plastic Bandages, 2.2 cm Circles | 898.000710 | 03278 | 10 | 1 |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 30 | 1 box (100) |
| Safecross, Antiseptic Skin Cleanser, 125 mL | 898.000140 | 06104 | 1 | 1 |
| Safety Pins, Assorted Sizes, 12's | 898.000320 | 02026 | 1 | 1 bag (12) |
| Scissors, Bandage, 14 cm | 898.000205 | 19161 | 1 | 1 |
| Second Skin, Moist Burn Pads, Medium, 5.1 x 7.6 cm, 4's | 898.000780 | 05636 | 1 | 1 |
| Splinter Forceps, Fine Point, 11.4 cm | 898.000950 | 19156 | 1 | 1 |
| Splinter-Out | 898.000180 | 19181 | 1 | 1 |
| Steri-Strip, Skin Closures, 6 mm x 7.6 cm, 3's | 898.000017 | 03486 | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 2 | 1 |
| Tegaderm, Transparent Film Dressings, 6 x 7 cm | 898.000020 | 07634 | 2 | 1 |
| Telfa, Non-Adherent Island Dressings, 5.1 x 9.5 cm | 898.000670 | 03185 | 2 | 1 |
| Telfa, Non-Adherent Pads, 7.6 x 10.2 cm | 898.000025 | 03165 | 6 | 1 |
| Thermometer, Oral/Axillary | 898.000660 | 03184 | 4 | 1 box (25) |
| Tongue Depressors, Senior, 1.9 x 15.2 cm | N/A | N/A | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000890 | 14003 | 2 | 1 |
| Water-Jel, Burn Dressing, 10.2 X 10.2 cm | 898.000007 | 02019 | 3 | 1 |
| Water-Jel, Cool Jel, 118 mL | 898.000150 | 06630 | 1 | 1 |
| Woundseal Topical Powder | 898.000170 | 06643 | 2 | 1 |
| Woundseal Topical Powder with 2 Applicators | 898.000060 | 06025 | 1 | 1 |

FIRST AID KIT – MANITOBA TRUCK



Art. No. 898.180020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**
- Contains supplies to treat small and large injuries
- Exceeds minimum standards for Occupational Health and Safety Personal Kit
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|-------------------|------------------|----------|--------------|
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 4 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 6 | 1 box (100) |
| Cold Pack, Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 1 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 6 | 1 box (100) |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 2 | 1 box (25) |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02018 | 2 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 5 | 1 |
| Hand Sanitizer, Antiseptic Gel foil packets, 3.7 ml | N/A | N/A | 1 | 1 box (100) |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000920 | 14363 | 1 | 25 |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 1 | 2 |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 12 | 1 box (100) |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter-Out, 2's | 898.000180 | 19181 | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 1.4 m | 898.000030 | 07616 | 1 | 1 box (100) |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 1 | 1 |
| Woundseal Topical Powder with 2 Applicators | 898.000060 | 06025 | 1 | 1 |

FIRST AID KIT – SASKATCHEWAN WORKPLACE



Art. No. 898.150000 Plastic Case

Features:

- **For workplaces with 1-9 workers**
- With standard bilingual “First Aid Kit” image
- Wall-mountable
- Dimensions: 25.1 x 25.1 x 7.9 cm (9-7/8” x 9-7/8” x 3-1/8”)

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Abdominal/Combine Pad 12.7 x 22.9 cm | 898.000330 | 03505 | 2 | 1 |
| Accident/Illness Record Book, Small | 898.000310 | 14237 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06575 | 10 | 1 box (100) |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| Conforming Stretch Bandage, 10.2 cm x 3.7 m | 898.000600 | 02339 | 1 | 1 |
| Conforming Stretch Bandage, 5.1 cm x 3.7 m | 898.000530 | 02227 | 1 | 1 |
| CPR Face Mask, W/One-Way Valve, in Plastic Case | 898.000225 | 11746 | 1 | 1 |
| Eye Dressing Kit W/1 Eye Pad & 1 Eye Shield | 898.000620 | 02527 | 1 | 1 |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| Gauze Bandage Roll, 10.2 cm x 4.6 m | 898.000400 | 02022 | 2 | 2 |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02047 | 2 | 4 |
| Gauze Pads, 5.1 x 5.1 cm | 898.000680 | 03763 | 2 | 1 box (25) |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03761 | 2 | 1 box (25) |
| Hand Soap 7 g | N/A | N/A | 1 | 1 |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 12 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 02101 | 12 | 1 box (100) |
| Safety Pins, Assorted Sizes | 898.000320 | 02025 | 4 | 12 |
| Scissors, Bandage, 14 cm | 898.000205 | 19161 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Tape, Clear Plastic, 1.9 cm x 0.9 m | 898.000030 | 07625 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02030 | 2 | 1 |

FIRST AID KIT – SASKATCHEWAN WORKPLACE STANDARD



Art. No. 898.150015 Metal Case

Features:

- **For workplaces with 40+ workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Wall mountable
- With standard bilingual “First Aid Kit” image;
- Dimensions: 40 x 31.4 x 11 cm (15-3/4” x 12-3/8” x 4-5/16”)

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Abdominal/Combine Pad 12.7 x 22.9 cm | 898.000330 | 03505 | 6 | 1 |
| Accident/Illness Record Book, Small | 898.000310 | 14237 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06575 | 30 | 1 box (100) |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 6 | 1 |
| Conforming Stretch Bandage, 10.2 cm x 3.7 m | 898.000600 | 02339 | 3 | 1 |
| Conforming Stretch Bandage, 5.1 cm x 3.7 m | 898.000530 | 02227 | 3 | 1 |
| CPR Face Mask, W/One-Way Valve, in Plastic Case | 898.000225 | 11746 | 1 | 1 |
| Eye Dressing Kit W/1 Eye Pad & 1 Eye Shield | 898.000620 | 02527 | 3 | 1 |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| Gauze Bandage Roll, 10.2 cm x 4.6 m | 898.000400 | 02022 | 6 | 2 |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02047 | 6 | 4 |
| Gauze Pads, 5.1 x 5.1 cm | 898.000680 | 03763 | 6 | 1 box (25) |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03761 | 6 | 1 box (25) |
| Hand Soap 7 g | N/A | N/A | 1 | 1 |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 12 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 02101 | 36 | 1 box (100) |
| Safety Pins, Assorted Sizes | 898.000320 | 02025 | 12 | 12 |
| Scissors, Bandage, 14 cm | 898.000205 | 19161 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Tape, Clear Plastic, 1.9 cm x 0.9 m | 898.000030 | 07625 | 3 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02030 | 6 | 1 |

FIRST AID KIT – SASKATCHEWAN TRUCK



Art. No. 898.150020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**.
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety Type P Kit.
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Alcohol Antiseptic Swabs | 898.000139 | 06575 | 4 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 02619 | 6 | 1 box (100) |
| Cold Pack Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| Conforming Stretch Bandage, 5.1 cm x 1.8 m | 898.000560 | 02331 | 1 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 02331 | 6 | 1 box (100) |
| First Aid & Emergency Care Guide, English/French | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 2 | 1 box (25) |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02047 | 2 | 4 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03761 | 4 | 1 box (25) |
| Hand Sanitizer Antiseptic Gel foil packets, 3.7 mL | N/A | N/A | 1 | 1 box (100) |
| Nitrile Medical Examination Gloves, Large | 898.000045 | 18765 | 2 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 02101 | 12 | 1 box (100) |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 12 | 12 |
| Scissors, Blunt Tip Nickel-Plated, 10.5 cm | 898.000200 | 19118 | 1 | 1 |
| Splinter-Out® | 898.000180 | 19180 | 2 | 1 box (10) |
| Tape, Clear Plastic, 1.9 cm x 0.9 m | 898.000030 | 07625 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 1 | 1 |

FIRST AID KIT – PEI NO. 2



Art. No. 898.160005 Plastic Case

Features:

- **No. 2 kit for workplaces with 2-19 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: First Aid Station sign (898.000990)
- With standard bilingual "First Aid Kit" image;
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 12 | 1 box (100) |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| CPR Face Shield, W/One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| Gauze Bandage Roll, 5.1 Cm x 4.6 m | 898.000021 | 02018 | 2 | 4 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 16 | 1 box (25) |
| Hand Cleansing Moist Towelettes | 898.000340 | 06062 | 24 | 1 box (100) |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 2 | 2 |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 24 | 1 box (100) |
| Safety Pins, Assorted Sizes, 12's | 898.000320 | 02026 | 1 | 1 bag (12) |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Tape, 2.5 cm x 2.3 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 6 | 1 |

FIRST AID KIT – PEI TRUCK



Art. No. 898.160020 Plastic Case

Features:

- General-purpose first aid kit designed for **transport vehicles**
- Contains supplies to treat minor injuries
- Exceeds minimum standards for Occupational Health and Safety No. 1 Kit
- Complete with carrying handle
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|-------------------|------------------|----------|--------------|
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 4 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 12 | 1 box (100) |
| Cold Pack, Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| CPR Face Shield, W/One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 6 | 1 box (100) |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 2 | 1 box (25) |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000500 | 02150 | 1 | 1 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 12 | 4 |
| Hand Cleansing Moist Towelettes | 898.000340 | 06062 | 6 | 1 box (100) |
| Hand Sanitizer, Antiseptic Gel foil pockets, 3.7 mL | N/A | N/A | 1 | 1 box (100) |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 2 | 2 |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 12 | 1 box (100) |
| Safety Pins, Assorted Sizes, 6'Ss | 898.000420 | 02025 | 1 | 1 |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000940 | 19118 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Splinter-Out, 2's | 898.000180 | 19181 | 1 | 1 |
| Tape, 2.5 cm x 2.3 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 3 | 1 |

FIRST AID KIT – NFD & LABRADOR #2



Art. No. 898.210005 Plastic Case

Features:

- **No. 2 kit for workplaces with 2-14 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: First Aid Station sign (898.000990)
- Wall Mountable
- With standard bilingual "First Aid Kit" image;
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Accident/Illness Record Book | 898.000310 | 14237 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 16 | 1 box (25) |
| Hydrogen Peroxide, 100 mL | N/A | N/A | 1 | 1 |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 16 | 1 box (100) |
| Safety Pins, Assorted Sizes, 12's | 898.000320 | 02026 | 1 | 1 bag (12) |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 6 | 1 |

FIRST AID KIT – NFLD & LABRADOR #3



Art. No. 898.210015 Metal Case

Features:

- **No. 3 kit for workplaces with 15-199 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: First Aid Station sign (898.000990)
- Wall mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 24.4 x 25.1 x 6.4 cm (9-5/8" x 9-7/8" x 2-1/2")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|------------|------------------|----------|--------------|
| Accident/Illness Record Book | 898.000310 | 14237 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 6 | 1 |
| Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm | 898.000004 | 03016 | 10 | 1 box (50) |
| Fabric Bandages, Knuckle, 3.8 x 7.6 cm | 898.000005 | 03025 | 10 | 1 box (50) |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 32 | 1 box (25) |
| Hydrogen Peroxide, 100 mL | N/A | N/A | 1 | 1 |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 32 | 1 box (100) |
| Safety Pins, Assorted Sizes, 12's | 898.000320 | 02026 | 1 | 1 bag(12) |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Surgitube, Tubular Gauze w/Applicator, 1.6 cm x 4.6 m | N/A | N/A | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 2 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 6 | 1 |

FIRST AID KIT – NFLD & LABRADOR TRUCK



Art. No. 898.210020 Metal Case

Features:

- General-purpose first aid kits designed for **transport vehicles**
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety #1 Kit.
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|------------|------------------|----------|--------------|
| Accident/Illness Record Book | 898.000310 | 14237 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 4 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 6 | 1 box (100) |
| Cold Pack, Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 6 | 1 box (100) |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 2 | 1 box (25) |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 12 | 1 box (25) |
| Hand Sanitizer, Antiseptic Gel, 3.7 mL | N/A | N/A | 1 | 1 box (100) |
| Hydrogen Peroxide, 100 mL | N/A | N/A | 1 | 1 |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 1 | 2 |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 12 | 1 box (100) |
| Safety Pins, Assorted Sizes, 12's | 898.000320 | 02026 | 1 | 1 bag (12) |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Splinter-Out, 2's | 898.000180 | 19181 | 1 | 1 |
| Tape, Clear Plastic, 1.9 cm x 0.9 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 1 | 1 |

FIRST AID KIT – NEW BRUNSWICK BASIC

Art. No. 898.190015 Metal Case

Features:

- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Wall mountable
- With standard bilingual "First Aid Kit" image;
- Dimensions: 36 x 24.8 x 6.2 cm (14-3/16" x 9-3/4" x 2-7/16")



| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Abdominal/Combine Pad, 20.3 x 25.4 cm | 898.000720 | 03504 | 6 | 1 |
| Accident/Illness Record Book | 898.000310 | 14237 | 1 | 1 |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 12 | 1 |
| Blanket, Emergency, Foil/Mylar, 142.2 x 203.2 cm | 898.000380 | 26297 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 4 | 1 |
| Cotton Tipped Applicators, 2/pk, 7.6 cm, Single-End, Str. | 898.000050 | 20145 | 6 | 1 |
| CPR Face Shield, w/One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Elastic Support/Compression Bandage, 7.6 cm x 4.6 m | 898.000350 | 08049 | 2 | 1 |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| Gauze Bandage Roll, 7.6 cm x 9.1 m | 898.000610 | 02520 | 2 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000750 | 03947 | 4 | 1 box (25) |
| Gauze Pads, 5.1 x 5.1 cm | 898.000740 | 03946 | 4 | 1 |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 4 | 1 box (25) |
| Hand Cleansing Moist Towelettes | 898.000340 | 06062 | 12 | 1 |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000920 | 14363 | 4 | 25 |
| Nitrile, Medical Examination Gloves | 898.000045 | 18765 | 6 | 2 |
| Pencil 8.9 cm | N/A | N/A | 1 | 1 |
| Plastic Bandages, 1 x 3.8 cm, Junior | 898.000640 | 03120 | 10 | 1 box |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 14 | 1 box |
| Safecross, Antiseptic Skin Cleanser, 60 mL | 898.000140 | 06104 | 1 | 1 |
| Safety Pins, Assorted Sizes | 898.000320 | 02026 | 1 | 1 |
| Scissors, Surgical, Blunt/Sharp, 14 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Sugar Packets | N/A | N/A | 6 | 1 |
| Tape, Clear Plastic, 2.5 cm x 9.1 m | 898.000820 | 07275 | 2 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm (40" x 40" x 56") | 898.000007 | 02019 | 6 | 1 |
| Water-Jel® Burn Dressing, 10.2 x 10.2 cm | 898.000151 | 06629 | 1 | 1 |
| Water-Jel® Burn Dressing, 5.1 x 15.2 cm | 898.000150 | 06630 | 3 | 1 |

FIRST AID KIT – NOVA SCOTIA NO. 2



Art. No. 898.200000 Plastic Case

Features:

- **No. 2 kit for workplaces with 2-9 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Accident/Illness Record Book, Small | 898.000310 | 14237 | 1 | 1 |
| Benzalkonium Chloride (Bzk), Antiseptic Towelettes | 898.000130 | 06061 | 12 | 1 box |
| Compress Bandage, 10.2 x 10.2 cm (4" x 4") | 898.000095 | 02024 | 2 | 1 |
| CPR Face Shield, w/One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Gauze Pads, 7.6 x 7.6 cm, Sterile | 898.000029 | 03052 | 16 | 1 box (25) |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02018 | 1 | 4 |
| Hand Cleansing Moist Towelettes, | 898.000340 | 06062 | 24 | 1 box |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000360 | 14359 | 1 | 25 |
| Nitrile, Medical Examination Gloves, Powder-Free, Large, 2/Package | 898.000045 | 18765 | 2 | 2 |
| Pencil, 8.9 cm | N/A | N/A | 1 | 1 |
| Plastic Bandages, 2.5 x 7.6 cm, | 898.000008 | 03040 | 24 | 1 box (100) |
| Safety Pins, Assorted Sizes, 12/Package | 898.000320 | 02026 | 1pkg | 1 |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| St. John Ambulance, Pocket Guide (English/French) | 898.000997 | 02054 | 1 | 1 |
| Tape, Cotton Cloth, 2.5 cm x 2.3 m | 898.000840 | 07966 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm (40" x 40" x 56"), | 898.000007 | 02019 | 6 | 1 |

FIRST AID KIT – NOVA SCOTIA NO. 3 & NO. 3 PLUS



No. 3 Art. No. 898.200010 Metal Case

Features:

- **No. 3 kit for workplaces with 20-49 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 24.4 x 25.1 x 6.4 cm (9-5/8" x 9-7/8" x 2-1/2")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Accident/Illness Record Book, Small | 898.000310 | 14237 | 1 | 1 |
| Benzalkonium Chloride (Bzk), Antiseptic Towelettes | 898.000130 | 06061 | 12 | 1 box |
| Compress Bandage, 10.2 x 10.2 cm (4" x 4") | 898.000095 | 02024 | 6 | 1 |
| CPR Face Shield, w/One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Gauze Pads, 7.6 x 7.6 cm, Sterile | 898.000029 | 03052 | 32 | 1 box (25) |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02018 | 1 | 4 |
| Hand Cleansing Moist Towelettes, | 898.000340 | 06062 | 24 | 1 box |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000360 | 14359 | 1 | 25 |
| Nitrile, Medical Examination Gloves, Powder-Free, Large, 2/Package | 898.000045 | 18765 | 4 | 2 |
| Pencil, 8.9 cm | N/A | N/A | 1 | 1 |
| Plastic Bandages, 2.5 x 7.6 cm, | 898.000008 | 03040 | 32 | 1 box (100) |
| Safety Pins, Assorted Sizes, 12/Package | 898.000320 | 02026 | 1pkg | 1 |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| St. John Ambulance, Pocket Guide (English/French) | 898.000997 | 02054 | 1 | 1 |
| Tape, Cotton Cloth, 2.5 cm x 2.3 m | 898.000840 | 07966 | 2 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm (40" x 40" x 56"), | 898.000007 | 02019 | 6 | 1 |



No. 3 Plus Art. No. 898.200015 Metal Case

Features:

- **No. 3 kit for workplaces with 50-49 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Accident/Illness Record Book, Small | 898.000310 | 14237 | 1 | 1 |
| Benzalkonium Chloride (Bzk), Antiseptic Towelettes | 898.000130 | 06061 | 24 | 1 box |
| Compress Bandage, 10.2 x 10.2 cm (4" x 4") | 898.000095 | 02024 | 12 | 1 |
| CPR Face Shield, w/One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Gauze Pads, 7.6 x 7.6 cm, Sterile | 898.000029 | 03052 | 64 | 1 box (25) |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02018 | 1 | 4 |
| Hand Cleansing Moist Towelettes, | 898.000340 | 06062 | 48 | 1 box |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000360 | 14359 | 1 | 25 |
| Nitrile, Medical Examination Gloves, Powder-Free, Large, 2/Package | 898.000045 | 18765 | 4 | 2 |
| Pencil, 8.9 cm | N/A | N/A | 1 | 1 |
| Plastic Bandages, 2.5 x 7.6 cm, | 898.000008 | 03040 | 64 | 1 box (100) |
| Safety Pins, Assorted Sizes, 12/Package | 898.000320 | 02026 | 1pkg | 1 |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| St. John Ambulance, Pocket Guide (English/French) | 898.000997 | 02054 | 1 | 1 |
| Tape, Cotton Cloth, 2.5 cm x 2.3 m | 898.000840 | 07966 | 2 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm (40" x 40" x 56"), | 898.000007 | 02019 | 12 | 1 |

FIRST AID KIT – NOVA SCOTIA TRUCK



Art. No. 898.200020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**.
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety No. 1 Kit.

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Accident/Illness Record Book, Small | 898.000310 | 14237 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 4 | 1 box (100) |
| Benzalkonium Chloride (Bzk), Antiseptic Towelettes | 898.000130 | 06061 | 12 | 1 box |
| Cold Pack, Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm (4" x 4") | 898.000095 | 02024 | 6 | 1 |
| CPR Face Shield, w/One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm, Heavyweight | 898.000001 | 03026 | 6 | 1 box (100) |
| First Aid Cream, 0.9 g, | N/A | N/A | 2 | 1 box (25) |
| Gauze Bandage Roll, 5.1 cm x 4.6 m | 898.000021 | 02018 | 1 | 4 |
| Gauze Pads, 7.6 x 7.6 cm, Sterile | 898.000029 | 03052 | 32 | 1 box (25) |
| Hand Cleansing Moist Towelettes, | 898.000340 | 06062 | 24 | 1 box |
| Hand Sanitizer, Antiseptic Gel, 3.7 mL | N/A | N/A | 1 | 1 |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000360 | 14359 | 1 | 25 |
| Nitrile, Medical Examination Gloves, Powder-Free, Large, 2/Package | 898.000045 | 18765 | 4 | 2 |
| Pencil, 8.9 cm | N/A | N/A | 1 | 1 |
| Plastic Bandages, 2.5 x 7.6 cm, | 898.000008 | 03040 | 32 | 1 box (100) |
| Safety Pins, Assorted Sizes, 12/Package | 898.000320 | 02026 | 1pkg | 1 |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Splinter-Out® | 898.000180 | 19181 | 1 | 1 box (10) |
| St. John Ambulance, Pocket Guide (English/French) | 898.000997 | 02054 | 1 | 1 |
| Tape, Cotton Cloth, 2.5 cm x 2.3 m | 898.000840 | 07966 | 2 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm (40" x 40" x 56"), | 898.000007 | 02019 | 6 | 1 |

FIRST AID KIT – BRITISH COLUMBIA LEVEL #1



Art. No. 898.220005 Plastic Case

Features:

- For **Level 1** workplaces
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Item required but not included: 3 blankets
- Wall mountable
- With standard bilingual “First Aid Kit” image
- Dimensions: 41.9 x 32.7 x 14.9 cm (16-1/2” x 12-7/8” x 5-7/8”)

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|-------------------|------------------|----------|--------------|
| Abdominal/Combine Pad, 20.3 x 25.4 cm | 898.000720 | 03504 | 4 | 1 |
| Accident/Illness Record Book | 898.000310 | 14237 | 1 | 1 |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06059 | 24 | 1 box (100) |
| Compress Bandage with Elastic Tail, 11.4 x 15.2 cm | 898.000630 | 02727 | 4 | 1 |
| Cotton Tipped Applicators, 2/pk, 7.6 cm, Single-End, Str. | 898.000050 | 20145 | 6 | 1 |
| CPR Face Mask, with One-Way Valve, In Case | 898.000225 | 17746 | 1 | 1 |
| Elastic Support/Compression Bandage, 7.6 cm x 4.6 m | 898.000350 | 08049 | 2 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 12 | 1 box (25) |
| Hand Cleansing Moist Towelettes | 898.000340 | 06062 | 60 | 1 box (100) |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 6 | 2 |
| Pencil 8.9 cm | N/A | N/A | 1 | 1 |
| Plastic Bandages, 1 x 3.8 cm, Junior | 898.000640 | 03270 | 20 | 1 box |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 40 | 1 box (100) |
| Plastic Bandages, 2.2 cm Circles | 898.000710 | 03275 | 10 | 1 box |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000001 | 03026 | 30 | 1 box (100) |
| Safety Pins, #2, (3.8 cm) | 898.000870 | 10023 | 4 | 1 |
| Scissors, Bandage, 14 cm | 898.000205 | 19161 | 1 | 1 |
| Splinter Forceps, Fine Point, 11.4 cm | 898.000950 | 19156 | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 6 | 1 |

FIRST AID KIT – BRITISH COLUMBIA LEVEL #2 AND #3



Art. No. 898.220015 Metal Case

Features:

- For **Level 2** workplaces
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: CPR pocket mask (item 898.000930) 3 blankets, portable oxygen therapy unit, manually operated self-inflating bag-valve-mask, oropharyngeal (oral) airway kit
- Wall mountable
- With standard bilingual "First Aid Kit" image;
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|------------|------------------|----------|--------------|
| Abdominal/Combine Pad, 20.3 x 25.4 cm | 898.000720 | 03504 | 10 | 1 |
| Accident/Illness Record Book | 898.000310 | 14237 | 1 | 1 |
| Batteries, Alkaline, "AAA" | 827.01 | N/A | 2 | 4 |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06059 | 24 | 1 |
| Compress Bandage w/ Elastic Tail, 11.4 x 15.2 cm | 898.000630 | 02727 | 4 | 1 |
| Elastic Support/Compression Bandage, 7.6 cm x 4.6 m | 898.000350 | 08049 | 6 | 1 |
| Esmarch Bandage, 7.6 cm x 4.6 m | 898.000520 | 02226 | 1 | 1 pkg |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 12 | 1 box (25) |
| Green Soap, Antiseptic Cleanser, 50 mL | N/A | N/A | 1 | 1 |
| Irrigation Solution, Sodium Chloride, 0.9%, 500 mL, Sterile | N/A | N/A | 1 | 1 |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 6 | 2 |
| Patient Assessment Chart | N/A | N/A | 6 | 1 |

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|------------|------------------|----------|--------------|
| Pencil 8.9 cm | N/A | N/A | 1 | 1 |
| Penlight, Reusable, No Batteries | N/A | N/A | 1 | 1 |
| Plastic Bandages, 1 x 3.8 cm, Junior | 898.000640 | 03270 | 30 | 1 box |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 60 | 1 box (100) |
| Plastic Bandages, 2.2 cm Circles | 898.000710 | 03275 | 15 | 1 box |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000001 | 03026 | 45 | 1 box (100) |
| Scissors, Universal Paramedic, 15.9 cm | N/A | N/A | 1 | 1 |
| Splinter Forceps, Fine Point, 11.4 cm | 898.000950 | 19156 | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 2 | 1 |
| Tape, Cotton Cloth, 5.1 cm x 4.6 m | 898.000830 | 07794 | 2 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 12 | 1 |

FIRST AID KIT – BRITISH COLUMBIA TRUCK



Art. No. 898.220020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety Type P Kit.
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|------------|------------------|----------|--------------|
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 4 | 1 |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06059 | 6 | 1 Box |
| Cold Pack, Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 1 | 1 |
| Compress Bandage, 5.1 x 5.1 cm | 898.000390 | 02010 | 1 | 1 |
| Conforming Stretch Bandage, 5.1 cm x 3.7 m | 898.000560 | 02331 | 1 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 6 | 1 box (100) |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 2 | 1 box (25) |
| Gauze Pads, 7.6 x 7.6 cm | 898.000029 | 03052 | 4 | 1 box (25) |

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|------------|------------------|----------|--------------|
| Hand Sanitizer, Antiseptic Gel, 3.7 mL | N/A | N/A | 1 | 1 |
| Instruction Card For Accident Reporting | N/A | N/A | 1 | 1 |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 1 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 12 | 1 box (100) |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter-Out®, 2's | 898.000180 | 19181 | 1 | 1 |
| Tape, Clear Plastic, 1.9 cm x 0.9 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 1 | 1 |

FIRST AID KIT – BRITISH COLUMBIA WORKPLACE STANDARD



Art. No. 898.220025 Metal Case

Features:

- Comprehensive first aid kits contain supplies for treating common injuries, wounds and burns.
- Ideal for general industry and warehouses.
- Contains a full assortment of practical, single-use disposable products to treat injuries in a sanitary way.
- Wall mountable
- **Exceeds minimum standards for Occupational Health and Safety Level 1 Kit**
- Dimensions: 36.8 x 46.5 x 16.2 cm (14-1/2" x 18-5/16" x 6-3/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|------------|------------------|----------|--------------|
| Abdominal/Combine Pad, 20.3 x 25.4 cm | 898.000720 | 03504 | 1 | 1 |
| Accident/Illness Record Book | 898.000999 | 14460 | 1 | 1 |
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 20 | 1 box (100) |
| Benzalkonium Chloride Antiseptic Towelettes, 100's | 898.000130 | 06061 | 1 | 1 |
| Blanket, Emergency, Foil/Mylar, 142.2 x 203.2 cm | 898.000380 | 26297 | 1 | 1 |
| Butterfly Skin Closures, Large, 1.3 x 7 cm | 898.000016 | 03674 | 5 | 1 box asst. |
| Butterfly Skin Closures, Medium, 1 x 4.6 cm | 898.000016 | 03674 | 5 | 1 box asst. |
| Coban, Self-Adherent Wrap, 5.1 cm x 4.6 m | 898.000860 | 08302 | 1 | 1 |
| Cold Pack, Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 2 | 1 |
| Compress Bandage w/Elastic Tail, 11.4 x 15.2 cm | 898.000630 | 02727 | 4 | 1 |
| Conforming Stretch Bandage, 10.2 cm x 3.7 m | 898.000590 | 02333 | 2 | 1 |
| Conforming Stretch Bandage, 7.6 cm x 3.7 m | 898.000580 | 02332 | 2 | 1 |
| Cotton Tipped Applicators, 7.6 cm, Single-End, 100's | 898.000050 | 20145 | 1 | 1 |
| CPR Face Mask, w/One-Way Valve, In Case | 898.000225 | 17746 | 1 | 1 |
| Elastic Support/Compression Bandage, 5.1 cm x 4.6 m | 898.000850 | 08048 | 1 | 1 |
| Elastic Support/Compression Bandage, 7.6 cm x 4.6 m | 898.000350 | 08049 | 1 | 1 |
| Eye Dressing Pads | 898.000770 | 04273 | 2 | 1 box (50) |
| Eye Wash, 20 mL | N/A | N/A | 6 | 1 box (60) |
| Fabric Bandages, 2.2 x 7.6 cm, 50's | 898.000001 | 03026 | 1 | 1 box (100) |
| Fabric Bandages, Fingertip Large, 4.4 x 7.6 cm | 898.000006 | 03017 | 12 | 1 box (50) |
| Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm | 898.000004 | 03016 | 12 | 1 box (50) |
| Fabric Bandages, Knuckle, 3.8 x 7.6 cm | 898.000005 | 03025 | 12 | 1 box (50) |
| Fabric Bandages, Large Patch, 5.1 x 7.6 cm | 898.000000 | 03035 | 12 | 1 box (50) |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g, 25's | N/A | N/A | 1 | 1 box (25) |
| First Aid Kit Inspection Report Card | 898.000999 | 14460 | 1 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 25 | 1 box (25) |
| Hand Cleansing Moist Towelettes | 898.000340 | 06062 | 60 | 1 box (100) |
| Hand Cleansing Towelettes, Antimicrobial | 898.000790 | 06065 | 6 | 1 box (100) |
| Hand Sanitizer, Antiseptic Gel, 118 mL | N/A | N/A | 1 | 1 |
| Hydrogen Peroxide, 250 mL | N/A | N/A | 1 | 1 |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000920 | 14363 | 2 | 1 |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 6 | 2 |
| Pencil 8.9 cm | N/A | N/A | 1 | 1 |
| Plastic Bandages, 1 x 3.8 cm, Junior | 898.000640 | 03270 | 20 | 1 box |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 40 | 1 box (100) |
| Plastic Bandages, 2.2 cm Circles | 898.000710 | 03275 | 10 | 1 box |
| Plastic Bandages, 2.5 x 7.6 cm | 898.000008 | 03040 | 30 | 1 box (100) |
| Safecross, Antiseptic Skin Cleanser, 125 mL | 898.000140 | 06104 | 1 | 1 |
| Safety Pins, Assorted Sizes, 12's | 898.000320 | 02026 | 1 | 1 |
| Scissors, Bandage, 14 cm | 898.000205 | 19161 | 1 | 1 |
| Second Skin®, Moist Burn Pads, Medium, 5.1 x 7.6 cm, 4's | 898.000780 | 05636 | 1 | 4 |
| Splinter Forceps, Fine Point, 11.4 cm | 898.000950 | 19156 | 1 | 1 |
| Splinter-Out®, 10's | 898.000180 | 19181 | 1 | 1 |
| Steri-Strip®, Skin Closures, 6 mm x 7.6 cm, 3's | 898.000017 | 03486 | 1 | 1 box (19) |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 1 | 1 |
| Tegaderm®, Transparent Film Dressings, 6 x 7 cm | 898.000020 | 07634 | 2 | 1 |
| Telfa®, Non-Adherent Island Dressings, 5.1 x 9.5 cm | 898.000670 | 03185 | 2 | 1 box (50) |
| Telfa®, Non-Adherent Pads, 5.1 x 7.6 cm | 898.000025 | 03165 | 6 | 1 box (25) |
| Telfa, Non-Adherent Pads, 7.6 x 10.2 cm | 898.000660 | 03184 | 4 | 1 box (25) |
| Thermometer, Oral/Axillary | N/A | N/A | 4 | 1 |
| Tongue Depressors, Senior, 1.9 x 15.2 cm | 898.000890 | 14003 | 4 | 1 box (25) |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 6 | 1 |
| Water-Jel®, Burn Dressing, 10.2 x 10.2 cm | 898.000150 | 06630 | 1 | 1 |
| Water-Jel®, Cool Jel, 118 mL | 898.000035 | 06635 | 1 | 1 |
| Woundseal® Topical Powder | 898.000060 | 06025 | 1 | 1 |

FIRST AID KIT – ALBERTA NO.1



Art. No. 898.170000 Plastic Case

Features:

- **No. 1 Workplaces**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: Accident Record Book (898.000310), First Aid Station sign (898.000990)
- With standard bilingual "First Aid Kit" image
- Wall mountable
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|---|-------------------|------------------|----------|--------------|
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 10 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 2 | 1 |
| Compress Bandage, 15.2 x 15.2 cm | 898.000490 | 02126 | 2 | 1 |
| Conforming Stretch Bandage, 7.6 cm x 3.7 m | 898.000580 | 02332 | 2 | 1 |
| CPR Face Shield, with One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Elastic Support/Compression Bandage, 7.6 cm x 4.6 m | 898.000350 | 08049 | 1 | 1 |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 10 | 1 box (25) |
| Infectious Waste Bags, 15.2 X 22.9 cm | 898.000920 | 14363 | 1 | 1 |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 4 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 25 | 1 box (100) |
| Safety Pins, Assorted Sizes, 6's | 898.000420 | 02025 | 1 | 1 |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 3 | 1 |

FIRST AID KIT – ALBERTA NO.3



Art. No. 898.170015 Metal Case

Features:

- **No. 3 Workplaces**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: Accident Record Book (898.000310), First Aid Station sign (898.000990)
- With standard bilingual "First Aid Kit" image
- Wall mountable
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Abdominal/Combine Pad, 20.3 x 25.4 cm | 898.000720 | 03504 | 4 | 1 |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 24 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 6 | 1 |
| Compress Bandage, 15.2 x 15.2 cm | 898.000490 | 02126 | 6 | 1 |
| Conforming Stretch Bandage, 7.6 cm x 3.7 m | 898.000580 | 02332 | 6 | 1 |
| CPR Face Shield, with One-Way Filtered Valve | 898.000225 | 17746 | 1 | 1 |
| Elastic Support/Compression Bandage, 7.6 cm x 4.6 m | 898.000350 | 19159 | 4 | 1 |
| Eye Dressing Pads | 898.000770 | 04273 | 2 | 1 box (50) |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 50 | 1 box (25) |
| Infectious Waste Bags, 15.2 x 22.9 cm | 898.000920 | 14363 | 2 | 1 |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 12 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm, 100's | 898.000002 | 03041 | 1 | 1 box (100) |
| Safety Pins, Assorted Sizes, 12's | 898.000320 | 02026 | 1 | 1 |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm | 898.000370 | 19159 | 1 | 1 |
| Surgitube, Tubular Gauze with Applicator, 1.6 cm x 4.6 m | N/A | N/A | 1 | 1 box |
| Tape, Clear Plastic, 2.5 cm x 4.6 m | 898.000030 | 07616 | 2 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 12 | 1 |

FIRST AID – ALBERTA TRUCK



Art. No. 898.170020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**.
- Contains supplies to treat small and large injuries
- Exceeds minimum standards for Occupational Health and Safety Type P Kit
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

| Description | Art. No. | Safecross P. No. | Kit Qty. | Reorder Qty. |
|--|-------------------|------------------|----------|--------------|
| Alcohol Antiseptic Swabs | 898.000139 | 06450 | 4 | 1 |
| Benzalkonium Chloride Antiseptic Towelettes | 898.000130 | 06061 | 6 | 1 |
| Cold Pack, Instant, Small, 10.2 x 15.2 cm | 898.000040 | 14189 | 1 | 1 |
| Compress Bandage, 10.2 x 10.2 cm | 898.000095 | 02024 | 1 | 1 |
| Conforming Stretch Bandage, 5.1 cm x 3.7 m | 898.000560 | 02331 | 1 | 1 |
| Fabric Bandages, 2.2 x 7.6 cm | 898.000001 | 03026 | 6 | 1 box (100) |
| First Aid & Emergency Care Guide | 898.000997 | 02054 | 1 | 1 |
| First Aid Cream, 0.9 g | N/A | N/A | 2 | 1 box (25) |
| Gauze Pads, 10.2 x 10.2 cm | 898.000027 | 02221 | 5 | 1 box (25) |
| Hand Sanitizer, Antiseptic Gel, 3.7 ml | N/A | N/A | 1 | 1 |
| Infectious Waste Bags, 15.2 X 22.9 cm | 898.000920 | 14363 | 1 | 1 |
| Nitrile, Medical Examination Gloves, 2's | 898.000045 | 18765 | 1 | 2 |
| Plastic Bandages, 1.9 x 7.6 cm | 898.000002 | 03041 | 12 | 1 box (100) |
| Scissors, Blunt Tip, Nickel-Plated, 10.5 cm | 898.000200 | 19091 | 1 | 1 |
| Splinter-Out®, 2's | 898.000180 | 19181 | 1 | 1 |
| Tape, Clear Plastic, 1.9 cm x 0.9 m | 898.000030 | 07616 | 1 | 1 |
| Triangular Bandage, 101.6 x 101.6 x 142.2 cm | 898.000007 | 02019 | 1 | 1 |

EMPTY FIRST AID CABINET



Art. No. 955.44518

Features:

- Metal cabinet, #6, w/imprint, 36.8x46.5x16.2cm (14-1/2"x18-5/16"x6-3/8")
- Manufactured from high-quality steel with a baked-on white enamel finish.
- Fixed shelves provide ample space to store a complete line of first aid products.
- Wall-mountable. (does not come with mounting hardware)

GAUZE PAD



Art. No. 898.000029 7.6 cm x 7.6 cm

Art. No. 898.000027 10.2 cm x 10.2 cm

Features:

- High-quality, absorbent 12-ply gauze pads
- For wound dressing and general cleaning
- Individually wrapped in water-resistant, tamper-proof packaging
- Made of 100% bleached cotton with a 24 x 28 mesh count

COTTON TIPPED APPLICATORS



Art. No. 898.000050 Qty: 100 applicators

Single end - clear plastic vial

Size: 7.6 cm

Features:

- High-quality cotton swabs for general medical applications

Dimension: 2" x 2" x 3-1/2"

FABRIC BANDAGES



Art. No. 898.000001 Qty: 100/Box

Fabric Bandages

Size: 2.2 x 7.6 cm / 7/8 x 3"

Features:

- High Quality fabric
- Open weave construction for skin to breathe and heal faster
- Strong adhesive for dressing to stay in place
- Highly absorbent



Art. No. 898.000000 Qty: 50/Box

Designed to provide protection and comfort for large wounds on various body areas

Fabric Bandages

Size: 5.1 x 7.6 cm / 2" x 3"

Features:

- High Quality fabric
- Open weave construction for skin to breathe and heal faster
- Strong adhesive for dressing to stay in place
- Highly absorbent
- Island pad construction which seals out dirt and contaminants



Art. No. 898.000006 Box Qty: 50

Designed to provide coverage, protection and comfort for hard to bandage elbow, fingertip and toe area

Fabric Bandages, Fingertip Large

Size: 4.4 x 7.6 cm / 1 3/4" x 3"

Features:

- High Quality fabric
- Open weave construction for skin to breathe and heal faster
- Strong adhesive for dressing to stay in place
- Highly absorbent
- Provides coverage and protection for elbow
- Island pad which seals out dirt and contaminants



Art. No. 898.000005 Qty: 50/Box

Designed to provide coverage, protection and comfort for hard to bandage knuckle and elbow areas

Fabric Bandages, Knuckle

Size: 3.8 x 7.6 cm / 1 1/2" x 3"

Features:

- High Quality fabric
- Open weave construction for skin to breathe and heal faster
- Strong adhesive for dressing to stay in place
- Highly absorbent
- Island pad construction which seals out dirt and contaminants

TRIANGLE BANDAGES



Art. No. 898.000007

Features:

- Made of 100% Cotton
- Dimensions (width x length x height) 101.6 x 142.2 cm (40" x 40" x 56")
- Vacuum-packed for maximum use of space in first aid kits
- Contains two safety pins

Areas of application:

- Supporting arms and shoulders (sling)
- Securing splints and dressings
- Applying pressure over a large area
- Stabilizing ankles and feet
- Controlling bleeding (tourniquet)
- Controlling bleeding when direct pressure is unsuitable (protruding objects)

SALVEQUICK® PLASTIC BANDAGE REFILLS



Art. No. 898.000012 Box Qty: 6 packs of 45 bandages

Sizes: 27 - 1.9 x 7.2 cm (3/4" x 2-27/32")
18 - 2.5 x 7.2 cm (1" x 2-27/32")

Features:

- Reduces consumption and theft of bandages
- Adhesive is exposed when bandage is removed from dispenser for immediate application
- Refill only. Dispenser sold separately

SALVEQUICK® FABRIC BANDAGE REFILLS



Art. No. 898.000014 Box Qty: 6 packs of 40 bandages

Sizes: 24 - 1.9 x 7.2 cm (3/4" x 2-27/32")
16 - 2.5 x 7.2 cm (1" x 2-27/32")

Features:

- Reduces consumption and theft of bandages
- Adhesive is exposed when bandage is removed from dispenser for immediate application
- Refill only. Dispenser sold separately

SALVEQUICK® BANDAGE DISPENSING SYSTEM



Art. No. 898.000010

Dispenser Includes:

45 assorted plastic, 40 assorted fabric

Features:

- Clear cover allows the user to view contents.
- Automatic locking system to ensure bandages are dispensed individually.
- Reduces consumption and theft of bandages.
- Adhesive is exposed when bandage is removed from dispenser for immediate application
- Sturdy plastic panel easily mounts to wall

WOUNDSEAL® TOPICAL POWDER & APPLICATORS



Art. No. 898.000060 with Applicator

Provides 2 applications

Features:

- WoundSeal® forms a protective, flexible scab that stops bleeding instantly.
- Employees can return back to work quickly, saving time and unnecessary medical expenses.
- Available in 2 convenient application methods for all areas of the body including nose bleeds.

Dimension: 7.6 x 11.4 cm (3" x 4-1/2")

BANTEX® COHESIVE GAUZE TAPE GREEN



Art. No. 898.000120 Box Qty: 1

Size: 2.5 cm x 27.4 m / 1" x 30 Yards

Features:

- Self-bonding gauze protective tape for medical and industrial use
- Resists perspiration, washing, soaking, bathing and immersion in soapy or detergent solutions; will not loosen, slip or distort when wet.
- Safe for sensitive skin; will not adhere to skin, hair or clothing.
- Easy and painless to remove.

Medical uses:

Protects cuts, burns, sprains and other injuries, retains dressings and provides support for sprains, weak arch, ankles and wrists.

Industrial uses:

Protects fingers and hands from industrial hazards; improves the user's grip; protects delicate products from finger and hand contamination.

CPR MASK WITH HARD PLASTIC CASE



Art. No. 898.000225

Features:

- Reusable physical protection barrier to prevent the victim's breath and body fluids from reaching the rescuer
- Helps reduce the risk of cross contamination and transference of viruses & bacteria between the victim and rescuer when mouth-to-mouth assistance is required
- One-way valve & directional diaphragm prevents back-flow of air & contaminants
- Constructed with a specially designed viral & bacterial filter for extra protection
- Medical grade thermoplastic mask for effective ventilation through both the nose and mouth
- Clear mask permits patient monitoring
- Features a soft inflated cuff for a leak-proof seal & added patient comfort
- 15/22 mm inputs connect to standard manual or mechanical resuscitators or bag-valve-masks
- Includes an oxygen inlet for optional supplemental oxygen
- Suitable for adults and children
- Can be used under extreme environmental temperatures
- Packaged in a compact, hard shell carrying case
- Latex-free

COLD PACK INSTANT, SMALL



Art. No. 898.000040

Size:

10.2 x 15.2 cm

Features:

- Ready to use and easy to activate for emergency use whenever cold therapy is required.
- Reaches 0° C (32° F) within seconds and remains below 5° C (41° F) for up to 10 minutes.
- A double bag construction for added quality and longer shelf life.

Areas of application:

- For Sprains, strains, dislocations, swelling, bumps and bruising, minor burns, headaches, migraines and tension relief, muscle aches and spasms, cramps, toothaches, insect bites, stings and sinus congestion.

BENZALKONIUM CHLORIDE ANTISEPTIC TOWELETTES



Art. No. 898.000130

Features:

- Cleans skin and minor wounds
- Sting-free for sensitive skin areas
- Individually packaged in compact, single-use foil sachets
- Active ingredient: benzalkonium chloride 0.40%

100 per box

Dimensions: 12.7 x 20.3 cm (5" x 8")

SAFECROSS® ANTISEPTIC SKIN CLEANSER



Art. No. 898.000140 125 mL

Spray Pump

Features:

- Medicated antiseptic, antibacterial and antimicrobial cleanser
- Used on cuts, scratches, minor burns and insect bites
- Cleans, disinfects and prevents infection
- Active ingredient: chlohexidine gluconate 2% (weight by volume)

HAND SANITIZING ANTISEPTIC GEL PACKETS



Features & Benefits:

- Fast and easy method for sanitizing and protecting hands without the need for water, soap or rinsing.
- Kills common disease-causing germs and bacteria within seconds.
- Dries quickly without leaving a film or residue.
- Contains aloe to moisturize and soften the skin.
- Single-use foil sachets.

| Size | Art. No. | P. Qty. |
|---|-------------------|---------|
| Hand Sanitizing Antiseptic Gel Packets 3.7 mL | 898.000135 | 100/box |

ALCOHOL ANTISEPTIC SWABS/PADS



Art. No. 898.000139 Qty: 100/box

Art. No. 898.000800 Qty: 10/box

Features:

- Non-woven pads saturated with isopropyl alcohol 70%
- Antiseptic and antimicrobial for minor wound care, injection and IV site preparation
- Individually packaged in compact, single-use foil sachets

Dimensions:

4.6 x 6.7 cm (1-13/16" x 2-5/8")

SPLINTER-OUT®



Art. No. 898.000180 Qty: 10/box

Features:

- Enables the removal of splinters with minimal discomfort and complete sterility
- Tri-bevel design for loosening and pulling out splinters
- Compact, easy to store in any first aid kit
- Individually wrapped

CEDERROTH® EYE WASH STERILE



Art. No. 898.000700

Amount: 500 ml

Features:

- Buffered isotonic sodium chloride solution for eye irrigation
- Single use bottle will remain sealed until cap is twisted off
- Includes built-in ergonomic eye cup with drain holes
- Maximum Shelf life: 4 years

EYE WASH WALL BRACKET



Art. No. 898.000701

For use with Cederroth Eye Wash Art. No. 898.000700

* Solution not included

WATER-JEL® BURN DRESSINGS



Features:

- Medical grade non-woven dressing infused with Water Jel®.
- Bacteriostatic gel formulation works quickly in emergency burn situations.
- Provides cool and soothing temporary relief of pain.
- Protects against contamination and stops burn progression.
- Water based, water soluble gel is easy to remove, can be applied directly over clothing and assists in the removal of burnt clothing.
- Non-toxic and non-irritating; will not harm the skin or eyes.
- Unaffected by prior freezing, air travel and hot temperature.
- Packaged in individual easy-to-open foil packages

| Description | Art. No | P. Qty. |
|----------------|-------------------|---------|
| 10.2 x 10.2 cm | 898.000151 | 1 |
| 5.1 x 15.2 cm | 898.000150 | |

INFECTIOUS WASTE BAGS



Features & Benefits:

- Safe and convenient bags for biohazardous waste.
- Two-part packaging consists of a re-sealable portion for specimen storage and a rear pouch for documentation
- Manufactured from clear plastic with red biohazard labelling
- Bilingual instructions are printed on each bag (English/French)
- Each bag measures: 15.2 x 22.9 cm (6" x 9")

| Art. No. | PC/Unit | P. Qty. |
|-------------------|---------|---------|
| 898.000330 | 25/pk | 1 |
| 898.000920 | 100/pk | |

WATER-JEL® COOL JEL



Features & Benefits:

- Provides cool and soothing temporary relief of pain from minor burns, cuts and scrapes, protects against contamination, stops burn progression and lessens the chance of body fluid evaporation.
- Moisturizes and provides a protective barrier to protect against contaminants and irritants
- Lowers and stabilizes skin temperature; cools through transference, not evaporation, to reduce the risk of hypothermia
- Water-based, water-soluble gel is easy to remove, and assists in the removal of burnt clothing
- Non-toxic and non-irritating; will not harm the skin or eyes
- Unaffected by prior freezing, air travel, and hot temperatures

| Description | Size | Qty. | Art. No. |
|--------------------|--------|--------------------|-------------------|
| Cool Jel - Pouches | 3.5 g | 25 pouches per box | 898.000170 |
| Cool Jel - Bottle | 118 mL | 1 Bottle | 898.000035 |

FIRST AID STATION SIGN



Art. No. 898.000990 English

Features:

- Made of white, high impact styrene
- Wall mountable
- For use in first aid rooms and industrial sites
- Dimensions (height x width): 25.4 x 35.6 cm (10" x 14")

WÜRTH FIRST AID INSPECTION REPORT STICKER

| FIRST AID KIT INSPECTION REPORT RAPPORT DE VÉRIFICATION DE TROUSSE DE PREMIERS SOINS | | | |
|---|---|---|---|
| Date of Inspection Date de vérification | Complete (yes or no) Complète (oui ou non) | Checked by (name) Vérifiée par (nom) | Date kit updated Date de mise à jour de la trousse |
| | | | |
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| | | | |
| | | | |

To replenish your first aid kit or supplies, please call WÜRTH: 1-800-263-5002 or your sales representative.
Pour réapprovisionner vos fournitures ou vos ensembles de premiers soins, veuillez appeler WÜRTH au 1-800-263-5002 ou votre représentant des ventes local.

Art. No. 898.000999

Handy sticker to be applied to the kit or wall.

ACCIDENT/ILLNESS RECORD BOOK



Art. No. 898.000310 - P. Qty. 1

Features & Benefits:

- For proper safety maintenance and regulatory compliance
- Records full details pertaining to accidents and workplace injuries
- Bilingual (English/French)
- Dimensions (width x length): 22.2 x 10.8 cm (8-3/4" x 4-1/4")

SAFETY PINS ASSORTED SIZES



Nickel Plated Safety Pins

| Sizes | Art. No. | PC/Unit | P. Qty. |
|-------------------|--------------------|---------|---------|
| 1, 2 & 3 (4 each) | 898.000320 | 12/pk | 1 |
| 1, 2 & 3 (2 each) | 898.000420* | 6/pk | |
| #2 | 898.000870* | 1440/bx | |

OnDemand*

ABDOMINAL/COMBINE PAD



Features & Benefits:

- Thick, super-absorbent pad consisting of three layers: soft outer non-woven layer, fluff filler to absorb and disperse fluid and wet-proof moisture barrier to prevent fluid strike-through
- Cushions draining wounds, burns and prevents skin maceration (breakdown)
- Unique wet-proof moisture barrier helps minimize exposure to blood-borne pathogens
- Absorbs more fluid than ordinary abdominal pads for fewer dressing changes
- Edges are sealed to prevent lint residue and leaking
- Outer layer facing has a topside indicator stripe to ensure proper application

| Dimensions | Art. No. | P. Qty. |
|----------------|-------------------|---------|
| 12.7 x 22.9 cm | 898.000330 | 1 |
| 20.3 x 25.4 cm | 899.000720 | |

HAND TOWELETTES



Art. No. 898.000340 - 100 pcs

Features & Benefits:

- Towlettes moistened with cleansing lotion
- Convenient when soap and water are unavailable
- Individually packaged in compact, single-use foil sachets
- Dimensions of each Towlettes: 13.2 x 15.6 cm (5-3/16" x 6-1/8")

HAND CLEANSING TOWELETTES - ANTIMICROBIAL



Art. No. 898.000790 - 100 pcs

Features & Benefits:

- Pre-saturated with surgical scrub and alcohol
- Reduces the chance of cross contamination
- Effective against gram-positive and gram-negative bacteria, viruses, fungi and yeasts
- Ideal for cleansing caregiver's hands prior to patient care
- Contains aloe vera to soften skin
- Active ingredients: parachlorometaxyleneol (PCMX) 0.5% and SD alcohol 40%
- Packaged in compact single-use foil sachets

NITRILE MEDICAL EXAMINATION GLOVE



Art. No. 898.000045 - 1 Pair

Features & Benefits:

- Ambidextrous, disposable nitrile medical examination gloves minimizes contact between the caregiver and patient
- Prevents direct contact with blood and other bodily fluids
- Offers high puncture resistance and increased tactile strength
- Essential for all first aid and emergency needs
- Ideal for health care professionals and latex sensitive users and patients; contains no natural rubber latex or latex proteins
- Meets or exceeds all Canadian and American regulations and standards
- Beaded cuff

EMERGENCY BLANKET FOIL



Art. No. 898.000380 - P. Qty. 1

Features & Benefits:

- Multipurpose, emergency first aid blanket made of aluminized non-stretch polyester
- Applications include: body warmth maintenance; use as an emergency shelter; protection from the weather and elements; reflective distress signal; protective wrap for victims of fire, accidents, exposure and shock
- Reflects body heat back to the user
- Stays flexible in freezing temperatures
- Lightweight and compact - fits easily into first aid kits, pockets, bags and glove compartments
- Windproof and waterproof
- Will not rot or mildew
- Dimensions: 142 x 203 cm (56" x 80"); weight: 42.5 g (1.5 oz)

COMPRESS BANDAGES



Features & Benefits:

- Used to stop bleeding without the need for separate gauze pads and gauze bandage rolls
- Provides superior absorbency
- Non-adherent pad will not disturb or stick to the wound
- Easy to apply without contaminating the pad
- Fast and easy to apply in emergency situations

| Dimensions | Art. No. | P. Qty. |
|--|------------|---------|
| 10.2 x 10.2 cm | 898.000095 | 1 |
| 5.1 x 5.1 cm | 898.000390 | |
| 15.2 x 15.2 cm | 898.000490 | |
| 11.4 x 12.7 cm - Large with Elastic Tail | 898.000550 | |
| 11.4 x 15.2 cm - Large with Elastic Tail | 898.000630 | |

CPR FACE SHIELD, W/ONE-WAY FILTERED VALVE

Art. No. 898.000930 - P. Qty. 1



Features & Benefits:

- Single-use physical protection barrier
- Used as a physical barrier to prevent the victim's breath and body fluids from reaching the rescuer
- Helps reduce the risk of cross contamination and transference of viruses and bacteria between the victim and rescuer in situations where mouth-to-mouth assistance is required
- Semi-transparent face shield features a silicone diaphragm, one-way isolation valve with a built-in patient expiratory port
- Innovative construction includes a specially designed viral and bacterial filter for extra protection
- Can be used under extreme environmental temperatures
- Packaged in a compact, easy-to-open format
- Fits easily into a first aid kit, pocket, purse, knapsack or glove compartment
- Suitable for adults and children
- Latex-free
- 5.1 cm x 4.6 cm

ELASTIC SUPPORT/COMPRESSION BANDAGE



Features & Benefits:

- For use on elbows, knees, ankles or lower legs
- Reusable, lightweight, non-fraying bandage provides tension, firm support and compression to encourage proper healing of sprains and strains
- Constructed of 50% polyester, 30% acrylic, 20% rubber
- Complete with metal affixing clips
- Individually wrapped
- Roll is 4.5 m (5 yds) in length when stretched

| Dimensions | Art. No. | P. Qty. |
|----------------|-------------------|---------|
| 7.6 cm x 1.7 m | 898.000350 | 1 |
| 5.1 cm x 1.7 m | 898.000850 | |

SPLINTER FORCEPS



Features & Benefits:

- General purpose, economy forceps for the removal of splinters
- Ideal for portable first aid kits

| Description | Art. No. | P. Qty. |
|--------------------|-------------------|---------|
| Blunt End, 8.1 cm | 898.000370 | 1 |
| Fine Point 11.4 cm | 898.000950 | |

NON-ADHERENT PADS



Features & Benefits:

- Non-adherent dressings consist of an absorbent cotton core pad bonded on the top and bottom with a soft, non-adherent perforated mylar film
- Used as a primary dressing over surgical incisions, lacerations, abrasions, non-draining and lightly draining wounds
- Will not disturb or stick to the wound
- Encourages air circulation and light fluid collection

| Dimensions | Art. No. | PC/Unit | P. Qty. |
|--|-------------------|---------|---------|
| 5.1 x 7.6 cm | 898.000025 | 25/bx | 1 |
| 7.6 x 10.2 cm | 898.000650 | 25/bx | |
| 7.6 x 10.2 cm - Telfa | 898.000660 | 100/bx | |
| 5.1 x 9.5 cm - Non-Adherent Island Dressings | 898.000670 | 50/bx | |

WIRE SPLINT ALUMINUM MESH



Art. No. 898.000430 - P. Qty. 1

Features & Benefits:

- Easily shaped to fit the required body contour
- Can be cut with scissors
- Can be worn during x-ray procedures

SPLINT PADDING

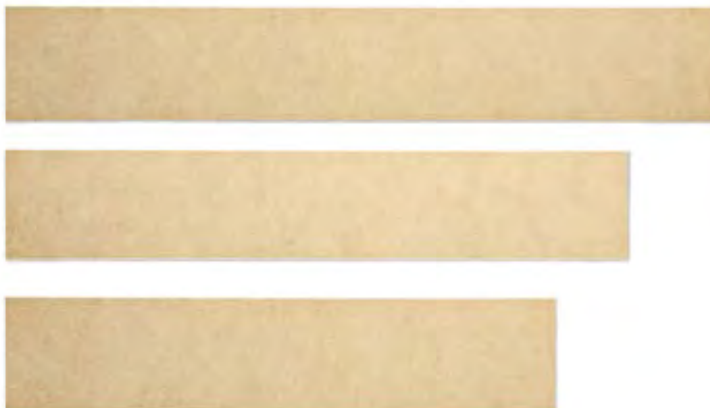


Art. No. 898.000440 - P. Qty. 1

Features & Benefits:

- Soft padding used in conjunction with a splint to provide comfort for the injured body part
- 10.2 x 20.3 cm

SPLINT SET - WOOD ASSORTED SIZES



Art. No. 898.000480 - 6 pcs

Features & Benefits:

- Lightweight, durable, smooth wooden splints for immobilization of arms, ankles, feet and legs; can also provide firm support for IV procedures
- Can be used with splint padding or abdominal pads for comfort
- Contains: 2 - 5.1 x 24.1 cm, 2 - 5.1 x 27.9 cm and 2 - 5.1 x 31.8 cm

ESMARCH BANDAGE



Art. No. 898.000520 - P. Qty. 1

Features & Benefits:

- Latex rubber bandage acts as a tourniquet to constrict blood flow
- 7.6 x 4.6 m

CONFORMING STRETCH BANDAGES



Features & Benefits:

- Soft, lightweight conforming bandages provide non-slip support and compression.
- Ideal for securing and retaining general dressings.
- Bandages conform and hold securely to body contours while allowing patient movement and soft tissue swelling
- 1-ply stretch rayon/nylon blend bandage.
- Provides low compression and support.

| Dimensions | Art. No | P. Qty. |
|---------------------------|------------|---------|
| 5.1 cm x 1.8 m - BOX | 898.000530 | 1 |
| 7.6 cm x 1.8 m - BOX | 898.000540 | |
| 10.2 cm x 1.8 m - BOX | 898.000600 | |
| 5.1 cm x 1.8 m - PLASTIC | 898.000560 | |
| 7.6 cm x 1.8 m - PLASTIC | 898.000580 | |
| 10.2 cm x 1.8 m - PLASTIC | 898.000590 | |

TEGADERM TRANSPARENT DRESSING



Art. No. 898.000020 - 6 pcs

Features & Benefits:

- Semi-permeable transparent surgical dressings used to protect abrasions, closed surgical wounds and pressure ulcers
- Barrier protects against outside contamination from liquids and bacteria
- Permits oxygen and moisture vapour transmission to encourage healing
- Allows for easy visibility of the skin, wound or site
- Frame style - features a breathable ID label for documenting dressing changes
- Easy to apply; comfortable and conformable
- Waterproof
- Latex-free
- Dimensions: 6 x 7 cm (2-3/8" x 2-3/4")

EYE DRESSING PADS



Features & Benefits:

- Oval-shaped eye pads made of absorbent cotton filler and enclosed in a non-woven fine mesh gauze.
- Suitable for eye injury care and medication application.
- Individually wrapped

| Brand | Art. No | PC/Unit | P. Qty. |
|------------------|------------|---------|---------|
| Safecross | 898.000760 | 12/bx | 1 |
| Coridient Curity | 898.000770 | 50/bx | |

EYE DRESSING KIT



Art. No. 898.000620 - P. Qty. 1

Features & Benefits:

- Contains 1 sterile eye pad and 1 eye shield

CEDERROTH SOFT FOAM BANDAGES



Cederroth Soft Foam Bandage is perfect for when you need to take care of a wound quickly and simply

Features & Benefits:

- The foam bandage is suitable for any kind of small wound in all hot, cold, wet and dry condition
- Glue-free plaster
- Can be used as both a plaster and a bandage
- Self-adhesive
- Can be used in water
- Elastic
- Does not stick to the wound or skin
- Fits in First Aid Station/Kit

Technical Info:

- Shelf life 5 years
- Contains latex

How To Use:

- Tear off a strip large enough to wind around the injured area once or twice
- In the event of heavy bleeding, the Soft Foam Bandage works as a 'cushion' to create a tourniquet



| Package | Dimensions | Art. No. | P. Qty. |
|-------------|--------------|------------|---------|
| Pocket Size | 6 cm x 40 cm | 898.007813 | 1 |
| Roll | 6 cm x 2 m | 898.007815 | |

PLASTIC BANDAGES - SPECIALITY



Features & Benefits:

- High-quality plastic bandages promote healing and offer protection against infection for minor cuts, scrapes, abrasions and burns
- Strong adhesive allows the dressing to stick and stay in place
- Highly absorbent, non-adherent pad keeps the wound clean and dry for faster healing
- Water-resistant
- Latex-free

| Dimensions | Art. No | PC/Unit | P. Qty. |
|--------------------------|-------------------|---------|---------|
| 1 x 3.8 cm - Junior Size | 898.000640 | 50/bx | 1 |
| 2.2 cm Circles | 898.000710 | | |

PLASTIC BANDAGES



Features & Benefits:

- High-quality plastic bandages promote healing and offer protection against infection for minor cuts, scrapes, abrasions and burns
- Strong adhesive allows the dressing to stick and stay in place
- Highly absorbent, non-adherent pad keeps the wound clean and dry for faster healing
- Water-resistant
- Latex-free

| Dimensions | Art. No | PC/Unit | P. Qty. |
|----------------|-------------------|---------|---------|
| 1.9 x 7.6 cm | 898.000002 | 100/bx | 1 |
| Assorted Sizes | 898.000003 | | |
| 2.5 x 7.6 cm | 898.000008 | | |

FABRIC BANDAGES – SPECIALTY



Art. No. 898.000004 - 50 pcs

Features & Benefits:

- High-quality cotton/rayon woven fabric bandages cushion wounds and offer protection against infection for minor cuts, scrapes, abrasions and burns
- Open-weave construction permits the skin to breathe for faster healing
- Strong adhesive allows the dressing to stick and stay in place
- Highly absorbent, non-adherent pad keeps the wound clean and dry for faster healing
- Designed to provide coverage, protection and comfort for hard-to-bandage elbow, fingertip and toe areas
- Special construction permits maximum protection and flexibility
- Island pad construction seals out dirt and contaminants
- Fingertip Small - 4.4 x 5.1 cm

BUTTERFLY SKIN CLOSURES



Art. No. 898.000016 - 20 pcs

Features & Benefits:

- Waterproof plastic adhesive dressings designed to hold wounds together; support sutures (stitches) and provide post-surgical support after the removal of sutures
- Non-adherent to the wound
- Latex-free
- Assorted Sizes

STERI-STRIP CLOSURES



Art. No. 898.000017 - 19 pcs

Features & Benefits:

- Advanced skin closures, made of porous, non-woven rayon material, allow skin to breathe; reinforced with filaments to provide extra strength
- For use as a skin closure device for lacerations and surgical incisions
- For use with or without skin sutures (stitches) or staples
- Provides additional support after the removal of sutures or staples
- Latex-free
- Each box contains the following: 3 - 6 mm x 7.6 cm (1/4" x 3"); 10 - 6 mm x 10.2 cm (1/4" x 4"); 6 - 12 mm x 10.2 cm (1/2" x 4")

FIRST AID SCISSORS



Features & Benefits:

- General purpose bandage scissors for cutting dressings, gauzes, tapes, bandages, dressing strips, metal and metal/foam splints

| Description | Art. No | P. Qty. |
|-------------------------------|-------------------|---------|
| Surgical Blunt/Sharp 14 cm | 898.000200 | 1 |
| Bandage 14 cm | 898.000205 | |
| Blunt Tip Nickel Plated 10 cm | 898.000940 | |

GAUZE SPONGES



Art. No. 898.000690 - 200 pcs

Features & Benefits:

- Low-linting gauze sponges made of 100% cotton
- Ideal for wound dressing and general cleaning
- 10.2 x 10.2 cm

GAUZE PADS



Features & Benefits:

- High-quality, absorbent 12-ply gauze pads
- For wound dressing and general cleaning
- Individually wrapped in water-resistant, tamper-proof packaging

| Dimensions | Art. No | PC/Unit | P. Qty. |
|----------------|--------------------|---------|---------|
| 5.1 x 5.1 cm | 898.000680 | 25/bx | 1 |
| 5.1 x 5.1 cm | 898.000750* | 1200/cs | |
| 10.2 x 10.2 cm | 898.000730 | 4/bx | |
| 10.2 x 10.2 cm | 898.000740* | 1200/cs | |

OnDemand*

GAUZE BANDAGE ROLLS



Features & Benefits:

- Used to stop bleeding without the need for separate gauze pads and gauze bandage rolls
- Provides superior absorbency
- Non-adherent pad will not disturb or stick to the wound
- Easy to apply without contaminating the pad
- Moisture-proof packaging resists water and ensures sterility
- Fast and easy to apply in emergency situations
- Compressed and vacuum-packed for maximum use of space in first aid kits

| Dimensions | Art. No | PC/Unit | P. Qty. |
|-----------------|-------------------|---------|---------|
| 5.1 cm x 4.6 m | 898.000021 | 4/bx | 1 |
| 10.2 cm x 4.6 m | 898.000400 | 2/bx | |
| 2.5 cm x 4.6 m | 898.000470 | 6/bx | |
| 5.1 cm x 9.1 m | 898.000500 | 1 | |
| 10.2 cm x 9.1 m | 898.000510 | | |
| 7.6 cm x 9.1 m | 898.000610 | | |

SURGICAL PLASTIC TAPE



Features & Benefits:

- Clear, easy-to-tear, perforated plastic tape
- Ideal for securing bulky dressings
- Stretches and conforms to body contours for greater holding power; suitable for active, hard-to-bandage areas such as knees, elbows or fingers
- Transparent for visualization of the skin and wound monitoring
- Perforated for easier, bi-directional tearing
- Easy to manage - even with gloves
- Leaves little or no residue
- Latex-free

| Dimensions | Art. No | P. Qty. |
|-------------------------------|-------------------|---------|
| Safecross - 2.5 cm x 4.6 m | 898.000030 | 12/bx |
| 3M Transpore - 2.5 cm x 9.1 m | 898.000820 | |

FIRST AID POCKET GUIDE (ENGLISH/FRENCH)



Art. No. 898.000997 - 2/pk

Features & Benefits:

- Topics include: rescue hazards, breathing emergencies, unconsciousness, wounds and bleeding, fractures, eye injuries, poisoning, burns, heat/cold exposure, heart attack, diabetes, epilepsy and rescue/transportation
- Bilingual (English/French)
- 68 pages
- 8.3 x 10.2 cm

SECOND SKIN BURN PADS



Art. No. 898.000760 - 4 pcs

Features & Benefits:

- Moist transparent pads saturated with sterile water provide a comfortable protective barrier to encourage healing of minor burns and blisters
- Cools and soothes for temporary relief of pain
- Non-adherent dressing will not stick to the wound
- Each pad measures (width x length): 5.1 x 7.6 cm (2" x 3")

COBAN SELF-ADHERENT WRAP



Art. No. 898.000860 - 10 pcs

Features & Benefits:

- Rubber-based, porous self-adhering wrap designed for compression, tension and support without clips, pins or tape
- Uses include: supporting strains and sprains; wrapping splints and arm boards; holding and protecting primary and compression dressings
- Will not stick to skin or dressings
- Lightweight and comfortable
- 5.1 cm x 4.6 m
- Can be cut to size

EMESIS BASIN PLASTIC



Art. No. 898.000880* - P. Qty. 1

Features & Benefits:

- Multipurpose basin for soaking, oral hygiene and patient sickness needs
- Graduated with pressed lines and figures (by 100 mL and by 1 oz)
- Dimensions: length: 21.6 cm (8-1/2"), capacity: 500 mL (16.9 oz)

OnDemand*

TONGUE DEPRESSORS



Features & Benefits:

- High-quality, smooth wood sticks made of white birch
- Uses include: assisting choking victims, splinting and throat examinations

| Dimensions | Art. No | PC/Unit | P. Qty. |
|---------------|--------------------|---------|---------|
| 1.9 x 15.2 cm | 898.000890* | 250/bx | 1 |
| 1.9 x 15.2 cm | 898.000900 | 25/bx | |

OnDemand*

CLOTH TAPE



Features & Benefits:

- High-quality, bleached cotton tape with a zinc oxide adhesive backing
- Suitable for use under a wide range of temperatures and extreme humidity conditions

| Dimensions | Art. No | P. Qty. |
|----------------|-------------------|---------|
| 5.1 cm x 4.6 m | 898.000830 | 1 |
| 2.5 cm x 2.3 m | 898.000840 | |

SIGNAGE

| Image | Description | Art. No. | Features and Benefits |
|-------|---|---|--|
| | MAINTAIN DISTANCE OUTDOOR SIGN 17" DIAMETER | 899.701200 *ON DEMAND* | <ul style="list-style-type: none"> P. Qty. = 1 High visibility & Anti-slip Made of high quality adhesive VynMark stock Laminated with thick textured material Sub-surface printed images Aggressive adhesive will adhere to most smooth, clean, and dry floors |
| | PLEASE WAIT HERE OUTDOOR SIGN 17" DIAMETER | 899.701210 *ON DEMAND* | <ul style="list-style-type: none"> P. Qty. = 1 High visibility & Anti-slip Made of high quality adhesive VynMark stock Laminated with thick textured material Sub-surface printed images Aggressive adhesive will adhere to most smooth, clean, and dry floors |
| | PLEASE DO NOT ENTER VINYL SIGN 14"x10" | 899.702300 *ON DEMAND* | <ul style="list-style-type: none"> P. Qty. = 2 Communicate to customers and employees with our precautionary signs 14"x10" Adhesive Vinyl |
| | THANK YOU FOR PRACTICING VINYL SIGN 14"x10" | 899.702310 *ON DEMAND* | <ul style="list-style-type: none"> P. Qty. = 2 Communicate to customers and employees with our precautionary signs 7"x10" Adhesive Vinyl |
| | DON'T FORGET TO WASH HANDS VINYL SIGN 7"x10" | 899.702320 *ON DEMAND* | <ul style="list-style-type: none"> P. Qty. = 2 Communicate to customers and employees with our precautionary signs 7"x10" Adhesive Vinyl |
| | WASH HANDS BEFORE.... VINYL SIGN 7"x10" | 899.702330 *ON DEMAND* | <ul style="list-style-type: none"> P. Qty. = 2 Communicate to customers and employees with our precautionary signs 7"x10" Adhesive Vinyl |

SAFETY FLOOR MARKING TAPE



Our colored safety floor marking tapes are made from a durable vinyl film with a rubber adhesive system that will adhere to almost any clean, dry surface.

Features and Benefits:

- Vinyl offers a matte smooth conformable tape that is great for marking hazards on floors, walls, and equipment
- Excellent durability and chemical resistance

Applications:

- Commonly used in aisle demarcation, color-coding, and pipe banding applications

| Lens | Dimensions | Art. No. | P. Qty. |
|---------------------|------------|-------------------|---------|
| Safety Yellow | 1" x 108' | 899.700100 | 2 |
| Safety Red | 1" x 108' | 899.700110 | 2 |
| Yellow/Black Hazard | 1" x 108' | 899.700120 | 2 |

CAUTION BARRICADE TAPE



Warn against hazards by restricting entry to dangerous areas.

Technical Info:

- "CAUTION"
- Made of polyethylene
- Thickness: 1.5 mils
- Language: English
- Grade: Standard

Applications:

- Ideal for both indoor and temporary outdoor usage

| Lens | Dimensions | Art. No. | P. Qty. |
|-----------------|------------|-------------------|---------|
| Black on Yellow | 3" x 1000' | 899.310240 | 1 |

GARBAGE BIN & LID



Indoor/outdoor all-purpose waste disposal.

GARBAGE BIN

Features and Benefits:

- Made of durable, heavy-duty polyethylene
- Built-in handles
- 32 gal capacity (volume)
- Shape: Round
- Colour: Grey
- Diameter: 31.75"
- Height: 26"

Applications:

- General purpose for indoor applications that require impact protection

GARBAGE LID

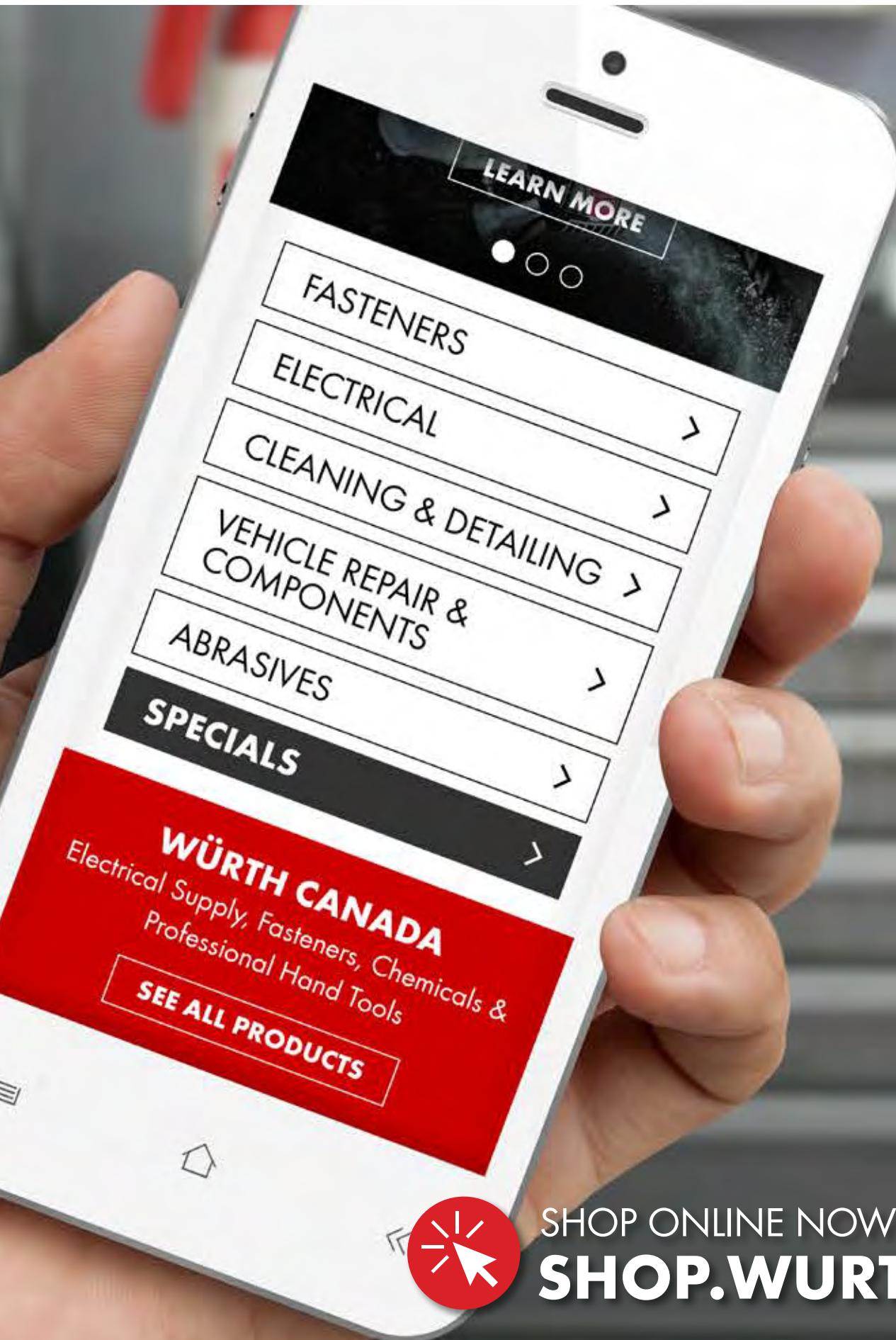
Features and Benefits:

- Durable flat-top lid
- Snap-on seal
- Sturdy, professional-grade construction
- Made of plastic
- Shape: Round
- Colour: Grey
- For use with 899.800110

| Description | Item Group | Art. No. | P. Qty. |
|--------------------------------|----------------|-------------------|---------|
| Garbage Bin Lid | OD - On Demand | 899.800100 | 1 |
| Round Garbage Bin 32 Gal. Grey | OD - On Demand | 899.800110 | 1 |

CLEANING ACCESSORIES

| Image | Description | Art. No. | Features and Benefits |
|---|--------------------------------------|----------------------------------|-----------------------|
|  | 6 IN. SCRUB BRUSH | 891.200172 *ON DEMAND* | |
|  | 8" NYLON GROUT BRUSH | 891.200908 *ON DEMAND* | |
|  | 8" COUNTER BRUSH | 891.200308 *ON DEMAND* | |
|  | 12" PLASTIC DUST PAN BLACK | 891.200305 *ON DEMAND* | |
|  | MULTI-SURFACE PUSH BROOM | 891.200956 *ON DEMAND* | |
|  | 16" GENERAL-DUTY SQUEEGEE | 891.200816 *ON DEMAND* | |
|  | 1 GAL. PLASTIC SANITIZING BUCKET RED | 891.200196 *ON DEMAND* | |



SHOP ONLINE NOW!

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07 GENERAL TOOLS

2 Hand Tools

- 2 Screwdrivers & Screwdriver Assortments
- 31 Drive Bits, Drive Assortments & Allen Keys
- 48 Wrenches & Ratchets
- 67 Sockets & Extensions
- 87 Ratchet Assortments
- 98 Hand Tool Kit
- 99 Pliers, Metal Cutters & Shears
- 124 Deburring, Files & Scraping Tools
- 128 Chisels, Punches & Measuring
- 139 Angled Gear & Accessories
- 140 Staples, Hammer & Clamp Tools
- 148 Body Work & Rivet Tools
- 154 Application Guns

156 Pneumatic Tools

- 156 Impact Wrenches
- 158 Grinders & Sanders
- 162 Jigsaw & Air Drills
- 165 Joint Cleaning & Grease Gun
- 166 Air Regulator with Gauge
- 167 Pistol Vac & Blow Guns
- 168 Speedpress 8T Pushpull Riveter & Accessories
- 174 Rivet Gun & Pneumatic Tool Oil
- 175 Foam Guns, Cartridge Guns & Brad Nailer

176 Electric Tools

178 Spray Bottles, Taps & Measuring Cups



*Images shown may vary from actual product

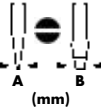
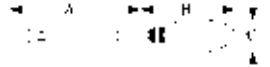

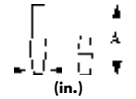
3K HEX BLADE SLOTTED SCREWDRIVER



Flexible 3K handle ensures perfect ergonomics, power transmission and working comfort.

Screwdriver, flat slotted

- Blade: One-piece hexagon blade, brushed chromium-plated; torque adjustment matt nickel-plated, tempered, impact-resistant
- Large impact cap
- Output: DIN 5264-A, ISO 2380 with Black Point tip

|  (mm) |  | |  (mm) |  (in.) | Art. No. | P. Qty. |
|---|---|----------|---|---|-------------|---------|
| | A (mm) | B/C (mm) | | | | |
| 0.6 x 3.5 | 80 | 83/27 | 4/- | 1/8 x 3 1/16" | 613.200035* | 1 |
| 0.8 x 4.5 | 90 | 96/31 | 5/8 | 3/16 x 3 3/5" | 613.200045 | |
| 1.0 x 5.5 | 100 | 96/31 | 6/10 | 7/32 x 4" | 613.200055 | |
| 1.2 x 7.0 | 125 | 106/35 | 6/10 | 9/32 x 5" | 613.20007 | |
| 1.6 x 9.0 | 150 | 114/38 | 8/13 | 11/32 x 6" | 613.20009 | |
| 1.6 x 10.0 | 175 | 114/38 | 8/13 | 3/8 x 7" | 613.20010 | |
| 2.0 x 12.0 | 200 | 114/38 | 10/16 | 1/2 x 8" | 613.20012 | |

* without impact cap and wrench aid


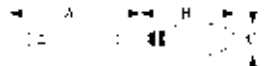


3K HEX BLADE PH SCREWDRIVER



Flexible 3K handle ensures perfect ergonomics, force transmission and working comfort.

Phillips screwdriver

- Blade: One-piece hexagon blade, brushed chromium-plated; wrench adapter matt nickel-plated, tempered, impact-resistant
- Würth colour coding system
- Large impact cap
- Tip: DIN 5260-PH, ISO 8764-PH with Black Point tip

|  |  | |  (mm) |  (in.) | Art. No. | P. Qty. |
|---|---|----------|---|---|----------|---------|
| | A (mm) | B/C (mm) | | | | |
| PH 1 | 80 | 96/31 | 5/8 | 3 1/8" | 613.2011 | 1 |
| PH 2 | 100 | 106/35 | 6/10 | 4" | 613.2012 | |
| PH 3 | 150 | 114/38 | 8/13 | 6" | 613.2013 | |

3K HEX BLADE PZ SCREWDRIVER



Flexible 3K handle for perfect ergonomics, power transmission and working comfort

- Blade: One-piece hexagon blade, brushed chromium-plated; wrench adapter matt nickel-plated, tempered, impact-resistant
- Würth colour coding system
- Large impact cap
- Tip: ISO 8764-PZ with Black Point tip

| | | | (mm) | (in.) | Art. No. | P. Qty. |
|------|--------|----------|----------|-----------|----------|---------|
| | A (mm) | B/C (mm) | | | | |
| PZ 1 | 80 | 96/31 | 5/8 | 3 1/8" | 613.2021 | 1 |
| PZ 2 | 100 | 106/35 | 6/10 | 4" | 613.2022 | |
| PZ 3 | 150 | 114/38 | 8/13 | 6" | 613.2023 | |

3K ROUND BLADE TX SCREWDRIVER



Flexible 3K handle for perfect ergonomics, power transmission and operating comfort

- Blade: Round blade, brushed chromium-plated
- Tip: TX socket, with Black Point tip
- Würth colour coding system
- Screw symbol printed on handle end for quick identification

| | | | (in.) | Art. No. | P. Qty. |
|-------|--------|----------|-----------|-----------|---------|
| | A (mm) | B/C (mm) | | | |
| TX 8 | 60 | 83/27 | 2 3/8" | 613.20308 | 1 |
| TX 10 | | | 3 1/8" | 613.20310 | |
| TX 15 | 80 | 96/31 | 4" | 613.20315 | |
| TX 20 | | | | 613.20320 | |
| TX 25 | | | | 613.20325 | |
| TX 27 | 115 | 106/35 | 4 9/16" | 613.20327 | |
| TX 30 | | | | 613.20330 | |
| TX 40 | 130 | 114/38 | 5 3/16" | 613.20340 | |

3K SLOTTED AND PH SCREWDRIVER SET



Art. No. **613.9015** 5 pcs.

5 pieces, with three slotted and two Phillips screwdrivers for the automotive and metalwork trades

- Flexible 3K handle ensures perfect ergonomics, power transmission and working comfort
- Impact caps

| Contents | ● | | + | | P. Qty. |
|-----------|--------------|-------------------|------|-----------------|---------|
| | | Art. No. | | Art. No. | |
| 5-pc. set | 1.0 x 5.5 mm | 613.200055 | PH 1 | 613.2011 | 1 |
| | 1.2 x 7.0 mm | 603.20007 | PH 2 | 613.2012 | |
| | 1.6 x 9.0 mm | 613.20009 | | | |

3K SCREWDRIVER SET (TX)



Art. No. **613.9036** 6 pcs.

6 pieces, with flexible 3K handle for perfect ergonomics, power transmission and operating comfort

- Blade: Round blade, brushed chromium-plated
- Tip: TX socket, with Black Point tip
- Würth colour coding system
- Screw symbol printed on handle end for quick identification

| ● | A (mm) | | B/C (mm) | | (in.) | Art. No. | P. Qty. |
|-------|--------|--|----------|--|------------------|------------------|---------|
| | | | | | | | |
| TX 8 | 60 | | 83/27 | | 2 3/8" | 613.20308 | 1 |
| TX 10 | 80 | | 96/31 | | 3 1/8" | 613.20310 | |
| TX 15 | | | | | 613.20315 | | |
| TX 20 | 100 | | 106/35 | | 4" | 613.20320 | |
| TX 25 | | | | | 613.20325 | | |
| TX 30 | 115 | | | | 4 9/16" | 613.20330 | |



ZEBRA® 3K HANDLE

The flexible 3-component handle ensures an optimal, sensitive seat in the hand and allows connection with the robust design also the highest power transmission.

SLOTTED SCREWDRIVERS



Hexagon blade, impact cap & wrench adapter

- Blade: Matt chrome-plated
- Large impact cap
- Tip: DIN 5264-A, ISO 2380, Black Point
- Wrench adapter

| A B | A B | | (mm) | (in.) | Art. No. | P. Qty |
|------------|---------|----------|----------|---------------|------------|--------|
| | A (mm) | B/C (mm) | | | | |
| 0.8 x 4.5 | 90 | 96/31 | 5/8 | 3/16 x 3 3/5" | 613.321045 | 1 |
| 1.0 x 5.5 | 100 | | 6/10 | 7/32 x 4" | 613.321055 | |
| 1.2 x 7.0 | 125 | 106/35 | | 9/32 x 5" | 613.32107 | |
| 1.6 x 9.0 | 150 | 114/38 | 8/13 | 11/32 x 6" | 613.32109 | |
| 1.6 x 10.0 | 175 | | | 3/8 x 7" | 613.32110 | |
| 2.0 x 12.0 | 200 | 120/40.5 | 10/16 | 1/2 x 8" | 613.32112 | |
| 2.5 x 14.0 | 250 | | | 9/16 x 10" | 613.32114 | |



Hexagon blade and wrench adapter

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Wrench adapter

| A B | A B | | (mm) | (in.) | Art. No. | P. Qty |
|------------|---------|----------|----------|---------------|-------------|--------|
| | A (mm) | B/C (mm) | | | | |
| 0.6 x 3.5 | 80 | 83/27 | 4/- | 1/8 x 3 1/16" | 613.421035* | 1 |
| 0.8 x 4.0 | 90 | 96/31 | 5/8 | 5/32 x 3 5/8" | 613.421004* | |
| 1.0 x 5.5 | 100 | | | 7/32 x 4" | 613.421055 | |
| 1.2 x 6.5 | 125 | 106/35 | 6/10 | 1/4 x 5" | 613.421065 | |
| 1.6 x 8.0 | 150 | 114/38 | 8/13 | 5/16 x 6" | 613.42108 | |
| 1.6 x 10.0 | 175 | | | 3/8 x 7" | 613.42110 | |
| 2.0 x 12.0 | 200 | 120/40.5 | 10/16 | 1/2 x 8" | 613.42112 | |

* without wrench adapter



Round blade

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265


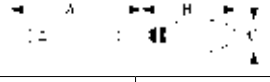

| A B | A B | | (in.) | Art. No. | P. Qty |
|------------|---------|----------|---------------|------------|--------|
| | A (mm) | B/C (mm) | | | |
| 0.5 x 3.0 | 80 | 73/20 | 1/8" x 3 1/8" | 613.23103 | 1 |
| 1.2 x 6.5 | 150 | 106/35 | 1/4" x 6" | 613.231065 | |
| 1.6 x 10.0 | 200 | 114/38 | 3/8" x 8" | 613.23110 | |

SLOTTED SCREWDRIVERS



Round blade, narrow


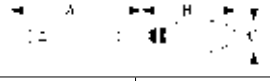

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: SMS SS 2830, DIN 5265

|  |  | |  (in.) | Art. No. | P. Qty. |
|---|---|----------|--|-------------------|---------|
| | A (mm) | B/C (mm) | | | |
| 0.6 x 3.5 | 100 | 83/27 | 1/8" x 4" | 613.231735 | 1 |
| 1.0 x 5.5 | 150 | 96/31 | 7/32" x 6" | 613.231755 | |



Round blade, long


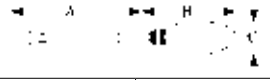

- Blade: Matt chrome-plated, long model
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265

|  |  | |  (in.) | Art. No. | P. Qty. |
|---|--|----------|---|-------------------|---------|
| | A (mm) | B/C (mm) | | | |
| 1.0 x 5.5 | 200 | 96/31 | 7/32" x 8" | 613.261055 | 1 |
| 1.2 x 8.0 | 300 | 114/38 | 5/16" x 12" | 613.26108 | |



Round blade, short

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265

|  |  | |  (in.) | Art. No. | P. Qty. |
|---|---|----------|--|------------------|---------|
| | A (mm) | B/C (mm) | | | |
| 1.2 x 8.0 | 25 | 62/31 | 5/16" x 1" | 613.25108 | 1 |

PH SCREWDRIVERS



Hexagon blade, impact cap, wrench adapter

- Large impact cap
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point

| + | A B C H | | | | Art. No. | P. Qty |
|------|---------|----------|-------|--------|----------|--------|
| | A (mm) | B/C (mm) | | | | |
| PH 1 | 80 | 96/31 | 5/8 | 3 1/8" | 613.3221 | 1 |
| PH 2 | 100 | 106/35 | 6/10 | 4" | 613.3222 | |
| PH 3 | 150 | 114/38 | 8/13 | 6" | 613.3223 | |
| PH 4 | 200 | 120/40.5 | 10/16 | 8" | 613.3224 | |



Hexagon blade, wrench adapter

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point

| + | A B C H | | | | Art. No. | P. Qty |
|------|---------|----------|-------|--------|----------|--------|
| | A (mm) | B/C (mm) | | | | |
| PH 1 | 80 | 96/31 | 5/8 | 3 1/8" | 613.4221 | 1 |
| PH 2 | 100 | 106/35 | 6/10 | 4" | 613.4222 | |
| PH 3 | 150 | 114/38 | 8/13 | 6" | 613.4223 | |
| PH 4 | 200 | 120/40.5 | 10/16 | 8" | 613.4224 | |



Round blade

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831

| + | A B C H | | | Art. No. | P. Qty |
|------|---------|----------|--------|-----------|--------|
| | A (mm) | B/C (mm) | | | |
| PH 1 | 80 | 96/31 | 3 1/8" | 613.23201 | 1 |
| PH 2 | 100 | 106/35 | 4" | 613.23202 | |
| PH 3 | 150 | 114/38 | 6" | 613.23203 | |
| PH 4 | 200 | 120/41 | 8" | 613.23204 | |



Round blade, long

- Blade: Matt chrome-plated, long model
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831

| + | A B C H | | | Art. No. | P. Qty |
|------|---------|----------|-----|----------|--------|
| | A (mm) | B/C (mm) | | | |
| PH 1 | 300 | 96/31 | 12" | 613.2621 | 1 |
| PH 2 | | 106/35 | | 613.2622 | |

PH SCREWDRIVER



Round blade, short

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831

| | | | (in.) | Art. No. | P. Qty. |
|------|--------|----------|-----------|----------|---------|
| | A (mm) | B/C (mm) | | | |
| PH 1 | 25 | 62/31 | 1 3/4" | 613.2521 | 1 |
| PH 2 | | | | 613.2522 | |

HEX HEAD SCREWDRIVER WITH FLEXIBLE SHAFT



For hexagon head screws

- Blade: round, flexible
- Blade length: 150 mm
- Tip: Hex head
- Head: bright nickel-plated, inner bore for projecting threaded shafts
- Standard: Tip DIN 3125
- Application: hard-to-reach places, hose clamps

| Wrench Size | Handle Length / Handle Width | Art. No. | P. Qty. |
|-------------|------------------------------|-----------|---------|
| 6 mm | 96 / 31 mm | 613.28606 | 1 |
| 7 mm | 106 / 35 mm | 613.28607 | |



PZ SCREWDRIVERS



Hexagon blade, wrench adapter

- Blade: Matt chrome-plated
- Tip: ISO 8764-PZ, Black Point

| | | | (mm) | (in.) | Art. No. | P. Qty. |
|------|--------|----------|----------|-----------|----------|---------|
| | A (mm) | B/C (mm) | | | | |
| PZ 1 | 80 | 96/31 | 5/8 | 3 1/8" | 613.4231 | 1 |
| PZ 2 | 100 | 106/35 | 6/10 | 4" | 613.4232 | |
| PZ 3 | 150 | 114/38 | 8/13 | 6" | 613.4233 | |
| PZ 4 | 200 | 120/40.5 | 10/16 | 8" | 613.4234 | |

TX SCREWDRIVER, ROUND BLADE



- Blade: Round blade, matt chrome-plated
- Tip: TX socket, Black Point

| | A (mm) / B/C (mm) | | (in.) | Art. No. | P. Qty. |
|-------|-------------------|----------|---------|-----------------|---------|
| | A (mm) | B/C (mm) | | | |
| TX 10 | 80 | 83/27 | 3 1/8" | 613.43410 | 1 |
| TX 15 | | 96/31 | | 613.43415 | |
| TX 20 | 100 | 106/35 | 4" | 613.43420 | |
| TX 25 | | | | 613.43425 | |
| TX 27 | 115 | 106/35 | 4 9/16" | 613.43427 | |
| TX 30 | | | | 613.43430 | |
| TX 40 | 130 | 114/38 | 5 3/16" | 613.43440 | |
| TX 45 | | | | 613.43445 | |
| TX 10 | 250 | 83/27 | 10" | 613.46410 | |
| TX 20 | | 96/31 | | 613.46420 | |
| TX 25 | | 106/35 | | 613.46425 *NEW* | |
| TX 30 | | | | 613.46430 | |

SQUARE SCREWDRIVER SET



Art. No. 613.43910 4 pcs.

Features:

- 2K Handle for comfort
- Colour coded tips

| Size | Blade length (mm) | Blade width (mm) | Art. No. | P. Qty. |
|------|-------------------|------------------|----------|---------|
| SQ#0 | 100 | 6 | 613.4390 | 1 |
| SQ#1 | | | 613.4391 | |
| SQ#2 | | | 613.4392 | |
| SQ#3 | | | 613.4393 | |

Note: Articles in red are special orders only

SCREWDRIVER ASSORTMENT WOODEN HANDLE



Art. No. 613.9405 5 pcs.

One-piece round blade with wrench adapter

- Blade: Bright chrome-plated, tempered, impact-resistant
- Tip: Black Point
- Handle: Screwdriver handle, beech wood, with double leather cap

Contents: 5 pieces

- 2 screwdrivers, wooden handle, slotted (1.0 x 5.5 mm; 1.2 x 7.0 mm)
- 3 screwdrivers, wooden handle, Philips (PH) PH 1, 2, 3

| (mm) | Art. No. | | Art. No. | P. Qty. |
|-----------------|------------|------|----------|---------|
| 1.0 x 5.5 x 100 | 613.041055 | PH 1 | 613.0421 | 1 |
| 1.2 x 7.0 x 125 | 613.04107 | PH 2 | 613.0422 | |
| 1.6 x 9.0 x 150 | 613.04109 | | 613.0422 | |

Note: Articles in red are special orders only

SCREWDRIVER SET, ROUND BLADE PH/SLOTTED



Art. No. 613.92326 6 pcs.

Contents: 6 pieces

- 0.6 x 3.5 x 100 mm, 1.0 x 5.5 x 125 mm, 1.2 x 6.5 x 150 mm, 1.2 x 8.0 x 175, PH1, PH2

| (mm) | Art. No. | | Art. No. | P. Qty. |
|-----------------|-------------------|------|------------------|---------|
| 0.6 x 3.5 x 100 | 613.231735 | PH 1 | 613.23201 | 1 |
| 1.0 x 5.5 x 125 | 613.231055 | PH 2 | 613.23202 | |
| 1.2 x 6.5 x 150 | 613.231065 | | | |
| 1.2 x 8.0 x 175 | 613.23108 | | | |

SCREWDRIVER SET, HEXAGON BLADE PH/SLOTTED



Art. No. 613.94226 6 pcs.

Hexagon blade and wrench adapter for automotive and metalwork trades.

- Blade: Brushed chromium-plated
- 1 each of slotted screwdriver with hexagon blade and torque adjustment 0.6 x 3.5 x 75; 1.0 x 5.5 x 100; 1.2 x 6.5 x 125; 1.6 x 8.0 x 150
- 1 each of PH screwdriver with hexagon blade and torque adjustment PH 1; PH 2

| (mm) | Art. No. | | Art. No. | P. Qty. |
|-----------------|-------------------|------|-----------------|---------|
| 0.6 x 3.5 x 75 | 613.421035 | PH 1 | 613.4221 | 1 |
| 1.0 x 5.5 x 100 | 613.421055 | PH 2 | 613.4222 | |
| 1.2 x 6.5 x 125 | 613.421065 | | | |
| 1.6 x 8.0 x 150 | 613.42108 | | | |

TX SCREWDRIVER SET



Art. No. 613.9348 8 pcs.

- 1 x screwdriver set TX 8 pcs.
- Blade: Round blade, brushed chromium-plated, tip: TX socket, Black Point

| | A (mm) | Art. No. | P. Qty. |
|-------|--------|------------------|---------|
| TX 10 | 80 | 613.43410 | 1 |
| TX 15 | | 613.43415 | |
| TX 20 | 100 | 613.43420 | |
| TX 25 | | 613.43425 | |
| TX 27 | 115 | 613.43427 | |
| TX 30 | | 613.43430 | |
| TX 40 | 130 | 613.43440 | |
| TX 45 | | 613.43445 | |

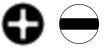
SLOTTED, PH SCREWDRIVER ASSORTMENT



Art. No. 965.905501

Screwdriver, 8pc System Assortment 4.4.1

- Number of pieces in assortment/set - 8pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance



| Description | Art. No. | P. Qty. |
|---|-------------------|---------|
| System insert 4.4.1, screwdriver empty | 0955905501 | 1 |
| PH round blade screwdriver short PH1X25 | 613.2521 | |
| PH round blade screwdriver short PH2X25 | 613.2522 | |
| Slotted screwdriver hex blade impact cap 0.8X4.5X90 | 613.321045 | |
| Slotted screwdriver hex blade impact cap 1.2X7X125 | 613.32107 | |
| Slotted screwdriver hex blade impact cap 1.6X9X150 | 613.32109 | |
| PH screwdriver hex blade impact cap PH1X80 | 613.3221 | |
| PH screwdriver hex blade impact cap PH2X100 | 613.3222 | |
| Screwdriver slotted hexagon blade 0.6X3.5X80 | 613.421035 | |

Item Only Available by Special Order

TX SCREWDRIVER ASSORTMENT



Art. No. 965.905502

Screwdriver, 7pc System Assortment 4.4.1

- Number of pieces in assortment/set - 7pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance
- Torx with hole screwdriver

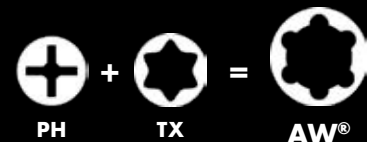


| Description | Art. No. | P. Qty. |
|---|-------------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905502 | 1 |
| Screwdriver TX with hole - TX-HO-TX10XL80mm | 0613434810 | |
| Screwdriver TX with hole - TX-HO-TX15XL80mm | 0613434815 | |
| Screwdriver TX with hole - TX-HO-TX20xL100mm | 0613434820 | |
| Screwdriver TX with hole - TX-HO-TX25xL100mm | 0613434825 | |
| Screwdriver TX with hole - TX-HO-TX27xL115mm | 0613434827 | |
| Screwdriver TX with hole - TX-HO-TX30xL115mm | 0613434830 | |
| Screwdriver TX with hole - TX-HO-TX40xL130mm | 0613434840 | |

Currently only available as a set. Individual items are special order.

THE AW[®] DRIVE

With its patented shape, the AW[®] drive combines the advantages of TX and PH / PZ drives. More power and optimum power transmission by a very good fit in the screw. The screw does not stagger, the tip of the screwdriver does not tend to slip during rotation.



SCREWDRIVER WITH 1/4" QUICK-CHANGE CHUCK



- Blade: Hexagon blade with wrench adapter, matt chrome-plated
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

| (in.) | A (mm) B/C (mm) | | (mm) | (in.) | Art. No. | P. Qty |
|-------|-----------------|----------|------|--------|-----------|--------|
| | A (mm) | B/C (mm) | | | | |
| 1/4" | 110 | 106/35 | 6/10 | 4 3/8" | 613.21021 | 1 |



Flexible shaft

- Blade: Hexagon blade with wrench adapter, matt chrome-plated
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

| (in.) | A (mm) B/C (mm) | | (mm) | (in.) | Art. No. | P. Qty |
|-------|-----------------|----------|------|-------|-----------|--------|
| | A (mm) | B/C (mm) | | | | |
| 1/4" | 177 | 106/35 | - | 6" | 613.28021 | 1 |



Flexible shaft

- Blade: Round, bright chromium-plated
- Tip: DIN 3120-A 6.3

| (in.) | A (mm) B/C (mm) | | (in.) | Art. No. | P. Qty |
|-------|-----------------|----------|-------|----------|--------|
| | A (mm) | B/C (mm) | | | |
| 1/4" | 150 | 106/35 | 6" | 613.4733 | 1 |

SCREWDRIVER WITH 1/4" BIT CHUCK



- Blade: Round blade with magnet
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

| (in.) | A (mm) B/C (mm) | | (in.) | Art. No. | P. Qty |
|-------|-----------------|----------|-------|-----------|--------|
| | A (mm) | B/C (mm) | | | |
| 1/4" | 100 | 106/35 | 4" | 613.43031 | 1 |

SCREWDRIVER WITH 1/4" TIP



One-piece blade

- Blade: Round, bright chromium-plated
- Tip: DIN 3120-A 6.3
- With ratchet adapter



| (in.) | A (mm) | | B/C (mm) | | Art. No. | P. Qty |
|-------|--------|----------|----------|-----------|------------|--------|
| | A (mm) | B/C (mm) | A (in.) | B/C (in.) | | |
| 1/4" | 110 | 106/35 | 4 3/8" | | 613.430310 | 1 |



MINI RATCHET SCREWDRIVER



| (in.) | A1 B C | | | | Art. No. | P. Qty. |
|-------|--------|--------|--------|---------|-----------|---------|
| | A (mm) | B (mm) | C (mm) | A2 (mm) | | |
| 1/4" | 26 | 70 | 38 | 20 | 613.63050 | 1 |

10-piece bit strip + PH2 bit

- Handle: 2K handle
- Blade: Short bit holder blade with magnet, bright chrome-plated
- Tip: DIN 3126-D 6.3
- For high torque applications in tight spaces

Bits included (1 each):

| | |
|--|-----------------------------------|
| | 1/4" |
| | 5.5 |
| | 4 mm, 5 mm |
| | PH 1, PH 2 |
| | TX 10, TX 15, TX 20, TX 25, TX 30 |



RATCHET MAGAZINE SCREWDRIVER



Equipped with 12 bits

- Blade: Circular blade with magnet, bright chrome-plated
- Tip: DIN 3126-D 6.3
- Powerful ratchet screwdriver
- 28 teeth, max. torque over 20 Nm.
- Advantage of the ratchet function
- No need to reposition hand. This enables fast, efficient operation in any assembly situation.
- Bit magazine for max. 12 bits
- Extendible, rotating magazine lets you find the bit you need quickly.
- 1/4"-bit with colour coding system
- Fast location of bits using Würth colour coding system – the right bit for every screw.

| (in.) | A (mm) | B1/B2 (mm) | C (mm) |
|-------|--------|------------|--------|
| 1/4" | 80 | 147/207 | 37.5 |

*Without bits

| FOR AUTOMOTIVE / METALWORK | | | | |
|-----------------------------------|-----------|-------------------|--------|-----------|
| Art. No. 613.6103 13 pcs. | | | | |
| Designation | Tip | Art. No. | P. Qty | |
| Ratchet Screwdriver, without bits | | 613.6100 | 1 | |
| PH 1 | | 614.176274 | | |
| PH 2 | | 614.176461 | | |
| TX 10 | | 614.3110 | | |
| TX 15 | | 614.3115 | | |
| TX 20 | | 614.3120 | | |
| TX 25 | | 614.3125 | | |
| TX 30 | | 614.3130 | | |
| Allen 4 mm | | | | 614.17694 |
| Allen 5 mm | | | | 614.17695 |
| Allen 6 mm | 614.17696 | | | |
| Slotted, 0.6 x 4.5 mm | | 614.175652 | | |
| 1/4" | | 614.176700 | | |

| FOR WOOD / CONSTRUCTION | | | | |
|-----------------------------------|-----|-----------------|--------|-------------------|
| Art. No. 613.6104 13 pcs. | | | | |
| Designation | Tip | Art. No. | P. Qty | |
| Ratchet Screwdriver, without bits | | 613.6100 | 1 | |
| AW [®] 10 | | 614.5110 | | |
| AW [®] 20 | | 614.5120 | | |
| AW [®] 30 | | 614.5130 | | |
| PZ 1 | | 614.176651 | | |
| PZ 2 | | 614.176652 | | |
| TX 10 | | 614.3110 | | |
| TX 15 | | 614.3115 | | |
| TX 20 | | 614.3120 | | |
| TX 25 | | 614.3125 | | |
| TX 30 | | 614.3130 | | |
| Slotted, 0.6 x 4.5 mm | | | | 614.175652 |
| 1/4" | | | | 614.176700 |

Note: Articles in red are special orders only

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Magnetic blade mount for 1/4" bits



Easy removal of the desired bit



Secure closing thanks to "snap lock"

PISTOL GRIP RATCHET MAGAZINE SCREWDRIVER



With
LED
light!

High-performance ratchet screwdriver

- 3-position adjustment wheel, adjustable with one hand, easy to change direction whilst working without using the other hand
- Magnet ensures a secure grip on bits and screws
- 45 teeth, max. torque of up to 40 Nm

2K grip for optimum ergonomic work

- Can be used as a standard screwdriver in the straight position or as a pistol grip in the 60° position thanks to the adjustable handle

LED technology

- Working area is always well lit, lights the screw directly
- Especially suitable for dark corners

Blade: Short bit holder blade with magnet, brushed chromium-plated
Output: DIN 3126-D 6.3
Sealing cap with bit magazine for a total of 6 bits



| (in.) | A1 (mm) | A2 (mm) | A3 (mm) | B (mm) | C (mm) | D (mm) | Art. No. | P. Qty. |
|-------|---------|---------|---------|--------|--------|--------|----------|---------|
| 1/4" | 10 | 37 | 40 | 25 | 26 | 113 | 613.6400 | 1 |



REVOLVER LED SCREWDRIVER SET

Art. No. **613.64037** 37 pcs.

Complete screwdriver assortment with the most common bits, a broad range of adapters and socket wrench inserts

ZEBRA® 2K gun grip for ergonomically-optimized working conditions

- Can be used as a "standard screwdriver" in the straight position or in the 60° gun position thanks to the adjustable grip
- The grip is secure and comfortable to hold in the gun position and is optimally positioned to the screw

LED technology

- The working area is always well lit. The light falls directly onto screw connection
- Especially suitable for dark areas

High-performance ratchet screwdriver

- No more regripping required. And that enables fast, efficient operation in any assembly situation
- 45 teeth, max. torque of 40 Nm

Sealing cap with bit magazine for a total of six bits

- Storage space in handle, 1/4" bits with Würth color coding system for fast location of bits

Large number of different adapters, bit holders and socket wrench inserts

- Contains the right short or long version for any application, also with telescopic magnet



| Designation | Tip | Length (mm) | Art. No. | P. Qty | | | |
|---|-------------------|-------------|-------------------|--------|----|-------------------|--|
| Gun Screwdriver, LED light with short, magnetic bit holder, 70 mm | | 164 | 613.6400 | 1 | | | |
| 1/4" socket wrench inserts, hexagon | | | | | | | |
| Size 4 mm | | 22 | 713.111104 | | | | |
| Size 5 mm | | | 713.111105 | | | | |
| Size 5.5 mm | | | 713.111155 | | | | |
| Size 6 mm | | | 713.111106 | | | | |
| Size 7 mm | | | 713.111107 | | | | |
| Size 8 mm | | | 713.111108 | | | | |
| Size 9 mm | | | 713.111109 | | | | |
| Size 10 mm | | | 713.111110 | | | | |
| Size 11 mm | | | 713.111111 | | | | |
| Size 12 mm | | | 713.111112 | | | | |
| Size 13 mm | | | 713.111113 | | | | |
| Size 14 mm | | | 713.111114 | | | | |
| 1/4" bits | | | | | | | |
| PH 1 | | | | | 25 | 614.176274 | |
| PH 2 | 614.176461 | | | | | | |
| PH 3 | 614.176648 | | | | | | |

| Designation | Tip | Length (mm) | Art. No. | P. Qty | |
|-----------------------------------|------------------|--------------|-------------------|--------|------------------|
| 1/4" Bits | | | | | |
| PZ 1 | | 25 | 614.176651 | | |
| PZ 2 | | | 614.176652 | | |
| Slotted 0.8x5.5mm | | 25 | 614.175653 | | |
| Slotted 1.2x8.0mm | | | 614.175656 | | |
| TX 10 | | 25 | 614.3110 | | |
| TX 15 | | | 614.3115 | | |
| TX 20 | | | 614.3120 | | |
| TX 25 | | | 614.3125 | | |
| TX 27 | | | 614.3127 | | |
| TX 30 | | | 614.3130 | | |
| TX 40 | | | 614.3140 | | |
| Allen Head, 3 mm | | | | 25 | 614.17693 |
| Allen Head, 4 mm | | | | | 614.17694 |
| Allen Head, 5 mm | | | | | 614.17695 |
| Allen Head, 6 mm | 614.17696 | | | | |
| 1/4" - adapter parts | | | | | |
| Extension | | 70 mm | 613.710 | | |
| Extension | | 150 mm | 613.711 | | |
| Magnetic bit holder | | 150 mm | 613.712 | | |
| Flexible bit holder | | 175 mm | 613.713 | | |
| Telesc. magn. holding force 600 g | - | 105 - 485 mm | 613.714 | | |

Note: Articles in red are special orders only

21 PCS SCREWDRIVER ASSORTMENT



Art. No. 965.905916

Screwdriver Set, 21pc System Assortment 8.4.1

- Number of pieces in assortment/set - 21pc
- Size foam section - 8.4.1
- Width x height x depth - 462 x 38 x 335 mm
- Décor - Carbon appearance



| Description | Art. No. | P. Qty. |
|---|-------------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905916 | |
| Slotted screwdriver round blade short 1x5 5x25 | 061325105 | |
| PH round blade screwdriver short PH2X25 | 613.2522 | |
| ZEBRA HOSE CLAMP DRIVER SW6 | 613.28606 | |
| ZEBRA HOSE CLAMP DRIVER SW7 | 613.28607 | |
| Slotted screwdriver hex blade impact cap 2X12X200 | 613.32112 | |
| Slotted screwdriver hex blade laser tip 0.6X3.5X75 | 613.424035 | |
| Slotted screwdriver hex blade laser tip 0.8X4.0X90 | 613.42404 | |
| Slotted screwdriver hex blade laser tip 1.2X6.5X125 | 613.424065 | |
| PH screwdriver hexagon blade laser tip PH1X80 | 613.4251 | |
| PH screwdriver hexagon blade laser tip PH2X100 | 613.4252 | |
| PH screwdriver hexagon blade laser tip PH3X150 | 613.4253 | 1 |
| TX screwdriver TX6X60 | 061343406 | |
| TX screwdriver TX7X60 | 061343407 | |
| TX screwdriver TX9X60 | 061343409 | |
| TX screwdriver TX10X80 | 613.43410 | |
| TX screwdriver TX15X80 | 613.43415 | |
| TX screwdriver TX20X100 | 613.43420 | |
| TX screwdriver TX25X100 | 613.43425 | |
| TX screwdriver TX27X115 | 613.43427 | |
| TX screwdriver TX30X115 | 613.43430 | |
| TX screwdriver TX40X130 | 613.43440 | |

Item Only Available by Special Order

PRECISION SCREWDRIVERS

Ideal for all fine and delicate screw work in electrical and precision engineering

Rotatable centring head with large finger recess

- For optimised work in the watchmaker position

Centring cap marked with screw symbol and size

- Easy and rapid identification

Multi-component handle with large, soft-grip components

- Comfortable and easy to use

Quick-action rotating zone

- For fast rotation in the full hand position

Chrome-plated blades made from highly tempered special steel

- Optimum corrosion protection

Black Point tip

- Precision fitting

Blade: Circular blade, brushed chromium-plated

Output: DIN 5264-A, ISO 2380, Black Point

Slotted Precision Screwdriver



| A B (mm) | A (mm) B/C (mm) | | (in.) | Art. No. | P. Qty |
|--------------|---------------------|----------|------------|------------|--------|
| | A (mm) | B/C (mm) | | | |
| 0.16 x 0.8 | 40 | 100/20 | 1 9/16" | 613.480008 | 1 |
| 0.18 x 1.0 | | | | 613.480010 | |
| 0.25 x 1.2 | | | | 613.480012 | |
| 0.30 x 1.5 | | | | 613.480015 | |
| 0.30 x 1.8 | 60 | | 2 3/8" | 613.480018 | |
| 0.40 x 2.0 | | | | 613.480020 | |
| 0.40 x 2.5 | 75 | | 3" | 613.480025 | |
| 0.50 x 3.0 | | | | 613.480030 | |
| 0.60 x 3.5 | 100 | 4" | 613.480035 | | |

PH Precision Screwdriver



| | A (mm) B/C (mm) | | (in.) | Art. No. | P. Qty |
|--------|---------------------|----------|-----------|------------|--------|
| | A (mm) | B/C (mm) | | | |
| PH 000 | 40 | 100/20 | 1 9/16" | 613.481000 | 1 |
| PH 00 | | | | 613.48100 | |
| PH 0 | | | | 613.4810 | |
| PH 1 | | | | 613.4811 | |

SLOTTED & PH, PRECISION SCREWDRIVER SET



Art. No. 613.4892 7 pcs.

Blade: Round blade, matte chrome-plated.

Tip: Internal TX, Black Point

| mm | Art. No. | | Art. No. | P. Qty. |
|-----------------|-------------------|-------|------------------|---------|
| 0.30 x 1.5 x 40 | 613.480015 | PH 00 | 613.48100 | 1 |
| 0.4 x 2.0 x 60 | 613.480020 | PH 0 | 613.4810 | |
| 0.4 x 2.5 x 75 | 613.480025 | PH 1 | 613.4811 | |
| 0.5 x 3.0 x 75 | 613.480030 | | | |

TX PRECISION SCREWDRIVER SET



Art. No. 613.4891 7 pcs.

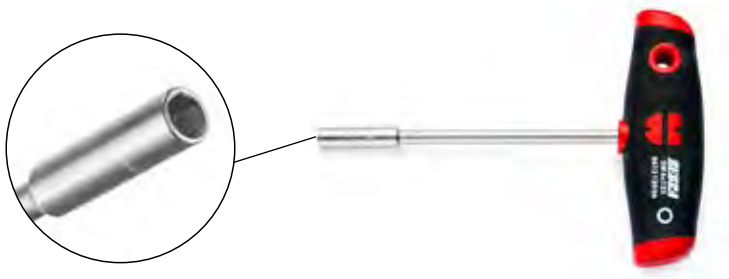
Blade: Round blade, matte chrome-plated.

Tip: Internal TX, Black Point

| Designation | Art. No. | P. Qty. |
|-------------|------------------|---------|
| TX 5 | 061348205 | 1 |
| TX 6 | 061348206 | |
| TX 7 | 061348207 | |
| TX 8 | 061348208 | |
| TX 9 | 061348209 | |
| TX 10 | 061348210 | |
| TX 15 | 061348215 | |


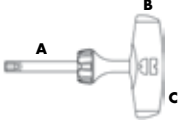
Note: Articles in red are special orders only

T-HANDLE SOCKET WRENCH

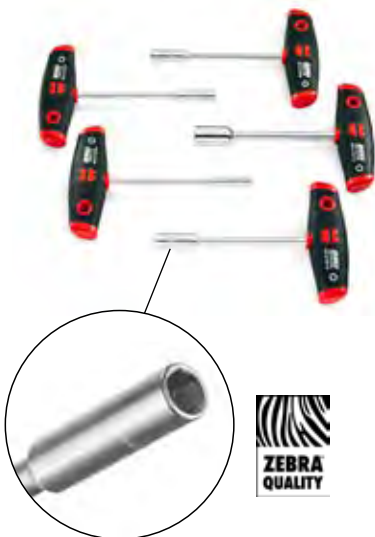


For hexagon head screws

- Blade: Round blade, chrome-plated
- Tip: DIN 475/2
- Inner bore for protruding threaded shafts
- Standard: DIN 3125


|  (mm) |  | | | Art. No. | P. Qty. |
|---|---|-----------|-----------|-----------|---------|
| | A (mm) | B/C (mm) | A (in.) | | |
| 7 | 125 | 35/104 | 5" | 613.12007 | 1 |
| 8 | | | | 613.12008 | |
| 10 | | | | 613.12010 | |
| 13 | | | | 613.12013 | |
| 16 | | | | 613.12016 | |
| 17 | 39/117 | 613.12017 | | | |
| 8 | 200 | 35/104 | 8" | 613.12108 | |
| 10 | 230 | | 9 3/16" | 613.12110 | |
| 13 | | | 613.12113 | | |
| 8 | 300 | | 12" | 613.12208 | |
| 10 | | | | 613.12210 | |
| 13 | | 613.12213 | | | |

T-HANDLE, SOCKET WRENCH SET



Art. No. 613.91205 5 pcs.

- Blade: Circular blade, nickel-plated
- Output: DIN 475/2
- Inner bore for protruding threaded shafts
- Standard: DIN 3125

|  (mm) | Blade Length (mm) | Art. No. | P. Qty. |
|--|-------------------|-----------|---------|
| 6 | 125 | 613.12006 | 1 |
| 7 | | 613.12007 | |
| 8 | | 613.12008 | |
| 10 | | 613.12010 | |
| 13 | | 613.12013 | |

T-HANDLE HEXAGON BLADE WITH SIDE TIP



Features:

- Integrated side tip
- High-quality blade
- One-piece blade
- Multi-component handle comprising solid core and soft casing
- Black Point tip

| (mm) | | | | Art. No. | Tip | P. Qty. | | |
|------|------------|-----------|--------|-----------|---------------|-----------|-----------|-----------|
| | A (mm/in.) | B/C (mm) | D (mm) | | | | | |
| 5 | 150/6" | 35/105 | 17 | 613.13005 | Ball Head Tip | 1 | | |
| 6 | | | | 613.13006 | | | | |
| 8 | | | | 613.13008 | | | | |
| 5 | 200/8" | | | 39/117 | | | 22 | 613.13105 |
| 6 | | | | | | | | 613.13106 |
| 8 | | | | | | | | 613.13108 |
| 10 | 150/6" | 27/82 | 13 | | | | | 613.13110 |
| 2.5 | | | | | | | | 613.13205 |
| 3 | | | | | | | | 613.13203 |
| 4 | 613.13204 | | | | | | | |
| 5 | 200/8" | | | 35/105 | 17 | | 613.13205 | |
| 6 | | | | | | | 613.13206 | |
| 8 | | 613.13208 | | | | | | |
| 3 | 150/6" | 27/82 | 13 | | | | 613.13303 | |
| 4 | | | | | | 613.13304 | | |
| 5 | | | | | | 200/8" | 35/105 | 17 |
| 6 | 613.13306 | | | | | | | |
| 8 | 613.13308 | | | | | | | |
| 10 | 200/8" | | | 39/117 | 22 | 613.13310 | | |

T-HANDLE HEXAGON BLADE ASSORTMENT



Art. No. 613.91306 6 pcs.

- 1 each of T-handle wrench with ball head hexagon socket, size 5 mm, 6 mm, 8 mm
- 1 each of T-handle wrench with hexagon socket, size 2.5 mm, 3 mm, 4 mm

| Contents (mm) | Blade Length (mm) | Art. No. | Tip | P. Qty. |
|---------------|-------------------|-----------|---------------|---------|
| 2.5 | 150 | 613.13205 | Hex Head Tip | 1 |
| 3 | | 613.13203 | | |
| 4 | | 613.13204 | | |
| 5 | | 613.13005 | Ball Head Tip | |
| 6 | | 613.13006 | | |
| 8 | | 613.13008 | | |

T-HANDLE, TX WITH SIDE TIP



Integrated side tip

- Effortless tightening and loosening of screw connections.
- Particularly suitable for rusted and seized screw connections.

High-quality blade

- Matte chrome-plated hexagon blade for optimal corrosion protection and long service life.
- High-quality special steel ensures optimal balance of ductility and wear resistance.

One-piece blade

- Resistant even to extremely high stresses


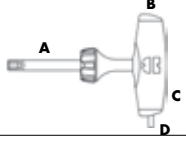
Multi-component handle comprising solid core and soft casing

- Highly slip-proof special black plastic ensures maximum torque transfer.
- Solid core and soft casing ensure rigidity and a secure grip.
- Ergonomically adapted handle for a comfortable grip and fatigue-free operation.
- Integrated drilled hole for storage on tool rack.

Black Point tip

- Higher torque and a precise fit

Output: For TX socket

|  (mm) |  | | | Art. No. | P. Qty. |
|---|---|----------|-----------|-----------|---------|
| | A (mm/in.) | B/C (mm) | D (mm) | | |
| TX 9 | 100/4" | 27/82 | 13" | 613.14009 | 1 |
| TX 10 | | | | 613.14010 | |
| TX 15 | | | | 613.14015 | |
| TX 20 | 200/8" | 35/105 | 17" | 613.14020 | |
| TX 25 | | | | 613.14025 | |
| TX 27 | | | | 613.14027 | |
| TX 30 | | | | 613.14030 | |
| TX 40 | | | | 613.14040 | |
| TX 45 | 39/117 | 22" | 613.14045 | | |

T-HANDLE SCREWDRIVER SET TX, SIDE TIP



Art. No. 613.91406 6 pcs.

For TX socket, with side output

Integrated side tip

- Effortless tightening and loosening of screw connections.

High-quality blade


- Matt chrome-plated hexagon blade for optimal corrosion protection and long service life.

Multi-component handle comprising solid core and soft casing

- Highly slip-proof special black plastic ensures maximum torque transfer.
- Integrated drilled hole for storage on tool rack.

Contents: 6 pcs.

- 6 T-handle screwdrivers for TX socket (TX 10, 15, 20, 25, 30, 40)

|  | Blade Length (mm) | Art. No. | P. Qty. |
|--|-------------------|-----------|---------|
| TX 10 | 100 | 613.14010 | 1 |
| TX 15 | | 613.14015 | |
| TX 20 | 200 | 613.14020 | |
| TX 25 | | 613.14025 | |
| TX 30 | | 613.14030 | |
| TX 40 | | 613.14040 | |

T-HANDLE, TX SOCKET SET



Art. No. 613.9147 7 pcs.

In sheet steel rack

Integrated side output

- Effortless tightening and loosening of screw connections
- Particularly suitable for rusted and seized screw connections

Multi-component handle comprising solid core and soft casing

- Ergonomically adapted handle for a

comfortable grip and effortless work

- Integrated drilled hole for storage on tool rack

Black Point tip

- Higher torque and a precise fit.

One-piece blade

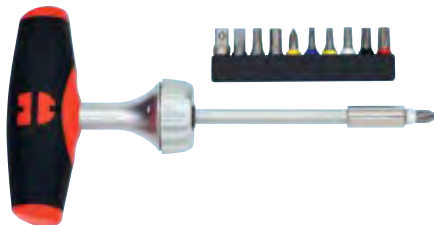
- Resistant even to extremely high stresses.

Contents: 7 pieces

- 1 each of T-handle screwdriver TX 10; TX 15; TX 20; TX 25; TX 30; TX 40; TX 45

| | Blade Length (mm) | Art. No. | P. Qty. |
|-------|-------------------|-----------|---------|
| TX 10 | 100 | 613.14010 | 1 |
| TX 15 | | 613.14015 | |
| TX 20 | | 613.14020 | |
| TX 25 | 200 | 613.14025 | |
| TX 30 | | 613.14030 | |
| TX 40 | | 613.14040 | |
| TX 45 | | 613.14045 | |

T-HANDLE RATCHET SCREWDRIVER



With 10-piece bit strip

Robust ratchet function with 45 teeth

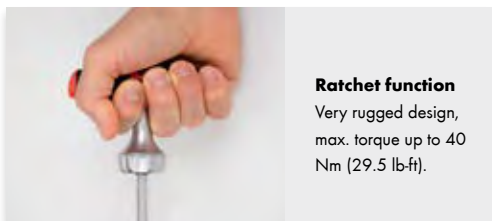
- Max. torque of up to 40 Nm

3-position adjustment wheel.

Adjustable with one hand

- Easy, one-handed change of direction while working

| Bits included (1 each): | |
|-------------------------|-----------------------------------|
| | 1/4" |
| | 5.5 |
| | 4 mm, 5 mm |
| | PH 1, PH 2 |
| | TX 10, TX 15, TX 20, TX 25, TX 30 |



Ratchet function

Very rugged design, max. torque up to 40 Nm (29.5 lb-ft).

| | | | | | Art. No. | P. Qty. |
|------------|--------|--------|--------|---------|-----------|---------|
| | A (mm) | B (mm) | C (mm) | A2 (mm) | | |
| 1/4" (in.) | 95 | 85 | 100 | 10 | 613.63040 | 1 |

HOOK T-HANDLE TOOL



For removal and assembly of rubber rings

Features:

- For removal and assembly of rubber rings on the exhaust silencer suspension system
- Chromium plated
- Solid, plastic coated cross handle.
- 105° offset, long hook, suitable for different rubbers designs

| Type | Length | Weight | Hook length | Art. No. | Qty |
|-------|--------|--------|-------------|-----------------|-----|
| Short | 200 mm | 90 g | 25 mm | 715.5531 | 1 |
| Long | 200 mm | 95 g | 45 mm | 715.5532 | |

T-HANDLE ASSORTMENT



Art. No. 613.630400 21 pcs.

- 2K T-handle
- Ergonomically adapted handle. It lies comfortable in the hand and ensures fatigue-free working.
- High-performance ratchet screwdriver.
- No more regripping required. And that enables fast, efficient operation in any assembly situation.
- Large numbers of different reversible blades, adapter, bit-holders and socket-wrench inserts.
- Contains the right tool for any application, and also includes a flexible bit holder.
- High-quality reversible blades.
- High top strength thanks to special treatment.
- With Würth colour coding systems for fast locating.
- Black-point tip for highly precise fit.
- All reversible, adapter and bit-holder blades have a 1/4" / 6.3 mm hex mount.



4 in 1!

- + T-Handle screwdriver
- + High performance ratchet screwdriver
- + Reversible or adapter bits
- + Socket-wrench inserts



Ratchet function

Very rugged design, max. torque up to 40 Nm (29.5 lb-ft).



Flexible bit-holder blade

Especially suitable for working in inaccessible areas.

| Contents: 21 pieces | | | | | | | | | |
|---|-----|--------|---------------------------------|-----------------------|------------------------|-----------------|-------------|-----------------|---------|
| Length Designation | Tip | Size | Art. No. | P. Qty. | Designation | Tip | Length Size | Art. No. | P. Qty. |
| T-Handle Ratchet screwdriver | | 85 mm | 613.63040 | 1 | Flexible bit holder | | 175 mm | 613.713 | 1 |
| 11 socket-wrench inserts, hexagon 1 each 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm | | 22 mm | 713.111105 to 713.111114 | | Blade PH 1 -PH 2 | | | 613.8091 | |
| | | | | | Blade TX10 -TX15 | | | 613.8092 | |
| | | | | | Blade TX20 -TX 25 | | | 613.8093 | |
| | | | | | Blade TX30 -TX 40 | | | 613.8094 | |
| Adapter blade | | 150 mm | 613.711 | | Blade Allen head 4 - 5 | | | 613.8095 | |
| Magnetic bit holder | | 150 mm | 613.712 | Blade PZ2 - Slot 6 mm | | 613.8096 | | | |

1/4" TORQUE SCREWDRIVER



Torque screwdriver for controlled clockwise tightening

Triggering accuracy: ± 6 % to the set value

In accordance with
DIN EN ISO 6789:2003,
Type II, Class D

Quick and simple adjustment of the torque without auxiliary tool

Push the sleeve back – rotate the handle – and that's it!

Soft-component handle with 1/4" square mount at the end of the handle

e.g. T-handle extension for increased force transmission

| Drive | Measuring range in Nm | Scale graduation in Nm | Suitable for counterclockwise tightening | Suitable for clockwise tightening | Length in mm | Art. No. | Qty. |
|-------|-----------------------|------------------------|--|-----------------------------------|--------------|----------|------|
| 1/4" | 1.0 - 3.5 Nm | 0.05 | No | Yes | 912 | 714.7191 | 1 |
| | 4.0 - 9.0 Nm | 0.1 | | | | 714.7192 | |

With calibration certificate and operating instructions, supplied in a plastic box

Instruction

After use, relax the spring and set to lowest value.

Field of applications

Automotive Tire pressure monitoring system (TPMS)
- for correctly installing tpms sensors;
Electronic devices such as computers, phones;
Screw attachments on motor vehicles, bicycles, motorcycles;
Electrical Applications in construction;
Model & Toy applications;
Industrial installation
And other applications requiring controlled tightening.



INSULATED SCREWDRIVERS



For working with voltages up to 1,000 volts (AC), or up to 1,500 volts (DC).

- Quality resistant test in a water bath with test voltage of 10 kV
- Identification marking with year of manufacture.
- Temperature & impact tested

EN 60900, IEC 900



- Blade: gunmetal finish, insulated.
- Tip: DIN 5264-A, ISO 2380,
- Conical/tapered blade
- Standard: DIN 7437, IEC 900, EN 60900



Slotted

| mm | A mm | A inch | B/C mm | B/C inch | D/A mm | D/A inch | Art. No. | P. Qty. |
|-----------|------|--------|--------|--------------------|-----------|----------------|------------|---------|
| 2.5 | 80 | 3 1/8" | 83/27 | 3 17/64" / 1 1/16" | 2.4 x 80 | 3/32" x 3 1/8" | 613.631025 | 1 |
| 0.8 x 4.0 | 100 | 4" | | | 4.0 x 100 | 5/32" x 4" | 613.63104 | |
| 1.2 x 6.5 | 150 | 6" | 106/35 | 4 11/64" / 1 3/8" | 6.4 x 150 | 1/4" x 6" | 613.631065 | |



- Blade: gunmetal finish, insulated.
- Tip: DIN 5260-PH, ISO 8764-PH
- Standard DIN 7438, IEC 900, EN 60900



PH

| | A mm | A inch | B/C mm | B/C inch | Art. No. | P. Qty. |
|------|------|--------|--------|--------------------|----------|---------|
| PH 0 | 80 | 3 1/8" | 83/27 | 3 17/64" / 1 1/16" | 613.6320 | 1 |
| PH 1 | | | 96/31 | 3 25/32" / 1 7/32" | 613.6321 | |
| PH 2 | 100 | 4" | 106/35 | 4 11/64" / 1 3/8" | 613.6322 | |

INSULATED SCREWDRIVER SET



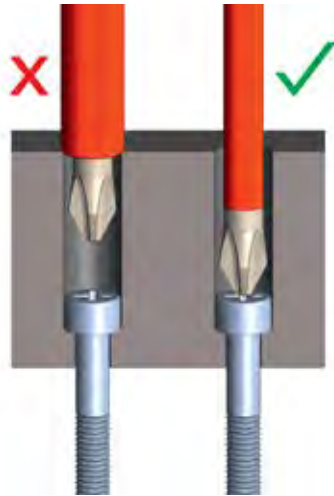
Art. No. 613.96325 5 pcs.

- Blade: gunmetal finish, insulated
- Tip: DIN 911
- Standard: DIN 7439, IEC 900, EN 60900



| mm | Art. No. | | Art. No. | P. Qty. |
|-----------------|------------|------|----------|---------|
| 0.4 x 2.5 x 80 | 613.631025 | PH 1 | 613.6321 | 1 |
| 0.8 x 4.0 x 100 | 613.63104 | PH 2 | 613.6322 | |
| 1.2 x 6.5 x 150 | 613.631065 | | | |

INSULATED SCREWDRIVER, SLIM



Allows for effortless access to deep-seated screws

- Extra slim area of blade for working in narrow diameter areas
- Prevents fraying of insulation
- Screw symbol on end of handle
- Tip: DIN ISO 2380-I-A
- Blade: Burnished
- Application area; Switch cabinets and distributor boxes, circuit breakers, terminal blocks and relays.

Individually tested in accordance with IEC 60900:2004



Slotted, Slim

| mm | | | | | Art. No. | P. Qty. |
|-----------|------|--------|--------|--------------------|-----------|---------|
| | A mm | A inch | B/C mm | B/C inch | | |
| 0.4 x 2.5 | 80 | 3 1/8" | 83/27 | 3 17/64" / 1 1/16" | 613.63125 | 1 |
| 0.8 x 4.0 | 100 | 4" | | | 613.63140 | |
| 1 x 5.5 | 125 | 5" | 96/31 | 3 25/32" / 1 7/32" | 613.63155 | |



PH, Slim

| | | | | | Art. No. | P. Qty. |
|------|------|--------|--------|--------------------|-----------|---------|
| | A mm | A inch | B/C mm | B/C inch | | |
| PH 1 | 80 | 3 1/8" | 96/31 | 3 25/32" / 1 7/32" | 613.63210 | 1 |
| PH 2 | 100 | 4" | 106/35 | 4 11/64" / 1 3/8" | 613.63220 | |

INSULATED SCREWDRIVER SET, SLIM

Art. No. 613.963250 5 pcs.



| mm | Art. No. | + | Art. No. | P. Qty. |
|-----------|-----------|------|-----------|---------|
| 0.4 x 2.5 | 613.63125 | PH 1 | 613.63210 | 1 |
| 0.8 x 4.0 | 613.63140 | PH 2 | 613.63220 | |
| 1.0 x 5.5 | 613.63155 | | | |

INSULATED INTERCHANGEABLE SCREWDRIVER SET

Art. No. 613.90014 14 pcs.

Item tested in accordance with IEC 60900:2004

12 Interchangeable blades

Simply choose the right blade and insert it into the handle

Can also be used as an electronic and precision mechanic's screwdriver with the plug-on screw cap

Contents:

- 1 screwdriver handle
- 1 precision mechanic's screw cap
- 12 blades

Note: The total length of the screwdriver does not correspond to the blade length plus the handle length, since the blade engages in the handle



| Designation | Length (mm) | Length (in.) |
|----------------|-------------|--------------|
| Slot 0.4 x 2.5 | 150 | 5 29/32" |
| Slot 0.5 x 3.0 | 175 | 6 57/64" |
| Slot 0.6 x 3.5 | | |
| Slot 0.8 x 4.0 | | |
| Slot 1.0 x 5.5 | | |
| Slot 1.2 x 6.5 | | |
| PH 1 | 155 | 6 7/64" |
| PH 2 | 175 | 6 57/64" |
| PZ 2 | | |
| TX 10 | | |
| TX 15 | | |
| TX 20 | 93 | 3 21/32" |
| Handle | | |

*Only available as a set

INSULATED SOCKET WRENCH SCREWDRIVERS FOR EXTERNAL HEXAGON SCREWS



- Blade: gunmetal finish, insulated. Tip: DIN 475/2.
- Standard: DIN 7445, IEC 900, EN 60900



| mm | | | | | Art. No. | P. Qty. |
|------|--------|---|-----------|--|------------|---------|
| | A mm | A inch | B/C mm | B/C inch | | |
| 5.5 | 125 | 5" | 96/31 | 3 ²⁵ / ₃₂ " / 1 ⁷ / ₃₂ " | 613.636055 | 1 |
| 6.0 | | | | | 613.63606 | |
| 7.0 | | | 106/35 | 4 ¹¹ / ₆₄ " / 1 ³ / ₈ " | 613.63607 | |
| 8.0 | | | | | 613.63608 | |
| 10.0 | | | | | 613.63610 | |
| 13.0 | 114/38 | 4 ³¹ / ₆₄ " / 1 ¹ / ₂ " | 613.63613 | | | |

INSULATED SCREWDRIVER HEX SET



Art. No. 613.93666 6 pcs.

For External Hexagon Screws



| mm | Art. No. | P. Qty. |
|------|------------|---------|
| 5.5 | 613.636055 | 1 |
| 6.0 | 613.63606 | |
| 7.0 | 613.63607 | |
| 8.0 | 613.63608 | |
| 10.0 | 613.63610 | |
| 13.0 | 613.63613 | |

INSULATED PRECISION SCREWDRIVERS



For working with voltage up to 1,000 volts (AC) and up to 1,500 volts (DC)

- Quality resistant test in a water bath with test voltage of 10 kVLoad per tray: 20 kg
- Identification marking with the year of manufacture
- Cold impact test at -40°C (Identification marking C)

EN 60900, IEC 60900



- Blade: Circular blade, insulated, bronzed
- Output: DIN 5264-A, ISO 2380
- Standard: EN 60900, IEC 60900



Slotted

| mm | A mm | A inch | B/C mm | B/C inch | Art. No. | P. Qty. |
|------------|------|---------|------------|-------------------|------------|---------|
| 0.30 x 1.5 | 40 | 1 9/16" | 100/20 | 3 15/16" / 13/16" | 613.486015 | 1 |
| 0.30 x 1.8 | 60 | 2 3/8" | | | 613.486018 | |
| 0.40 x 2.0 | 75 | 3" | 613.486020 | | | |
| 0.40 x 2.5 | | | 613.486025 | | | |
| 0.50 x 3.0 | | | 613.486030 | | | |



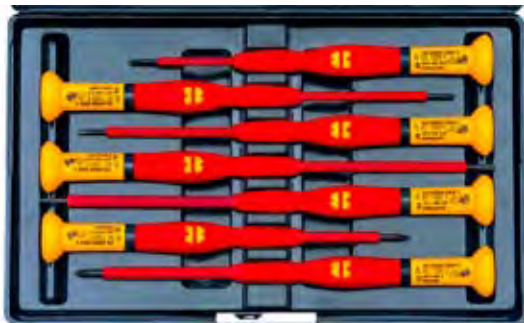
- Blade: Circular blade, insulated, bronzed
- Output: ISO 8764-PH
- Standard: EN 60900, IEC 60900



PH

| | A mm | A inch | B/C mm | B/C inch | Art. No. | P. Qty. |
|-------|------|---------|--------|-------------------|-----------|---------|
| PH 00 | 40 | 1 9/16" | 100/20 | 3 15/16" / 13/16" | 613.48700 | 1 |
| PH 0 | 60 | 2 3/8" | | | 613.4870 | |

INSULATED PRECISION SCREWDRIVER SET



Art. No. 613.4894 7 pcs.

In Plastic Casing

| mm | Art. No. | | Art. No. | P. Qty. |
|------------|------------|-------|-----------|---------|
| 0.30 x 1.5 | 613.486015 | PH 00 | 613.48700 | 1 |
| 0.30 x 1.8 | 613.486018 | PH 0 | 613.4870 | |
| 0.40 x 2.0 | 613.486020 | | | |
| 0.40 x 2.5 | 613.486025 | | | |
| 0.50 x 3.0 | 613.486030 | | | |



WÜRTH COLOUR CODING SYSTEM

How often do you have a PH- instead of a PZ-bit? Quite simply the wrong bit size in your cordless screwdriver? How often did you walk to the workbench to get the right bit? Those who work with bits know this only too well. The Würth, already registered as a utility model in 1982, Farble system allows you to quickly and easily assign the appropriate bit to the screw. The label of the screw box and colour codes on each bit easily shows at a glance which bit is needed.

FIND THE COLOUR, FIND THE BIT!



PH 0

PH 1

PH 2

PH 3

PH 4



PZ 0

PZ 1

PZ 2

PZ 3

PZ 4



AW® 10

AW® 20

AW® 25

AW® 30

AW® 40

AW® 50



TX 10

TX 15

TX 20

TX 25

TX 27

TX 30

TX 40

Shank Styles



Hex



Hex Quick Change



Drive Styles



Slotted

A slot in the head



Phillips and Frearson

An X-shaped drive



Pozidriv

Ribs between each of the four arms of the X-shaped drive



Clutch G

For tamper-resistant screw heads



Torx

Specifically designed to prevent cam-out and stripped heads



Socket, Hex or Allen

A hexagonal hole for use with an Allen key



AW®

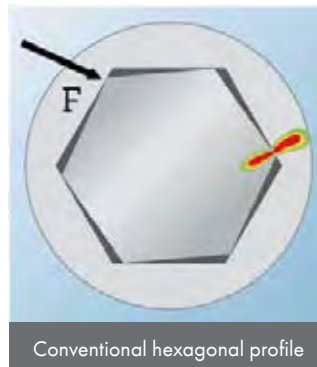
Würth Exclusive!

More Power—Combination of Phillips and Torx

POWERDRIV®

We have optimized the connection between bit holder and bit insert. The proven POWERDRIV® system increases the contact surface of the bit in the holder. The lifetime of the entire system is further increased. Here you see the comparison between the surface contact of the POWERDRIV® profile (right) compared to the line contact a conventional hexagonal profile (left).

Less stress, less breakage.





Conventional hexagonal profile





POWERDRIV® profile

1/4" PH BIT – HEX





| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|---|--|-------------|-----------|---------|
| PH 1 |  |  | 25 | 614.12251 | 10 |
| PH 2 | | | | 614.12252 | |
| PH 3 | | | | 614.12253 | |





| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|---|--|-------------|------------|---------|
| PH 0 |  |  | 25 | 614.176270 | 5 |
| PH 1 | | | | 614.176274 | 10 |
| PH 2 | | | | 614.176461 | |
| PH 3 | | | | 614.176648 | |
| PH 4 | | | 32 | 614.176750 | 5 |





| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|---|--|-------------|------------|---------|
| PH 1 |  |  | 50 | 614.176691 | 5 |
| PH 2 | | | | 614.176692 | |
| PH 3 | | | | 614.176693 | |

1/4" PH BIT – HEX QUICK CHANGE





| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|---|--|-------------|------------|---------|
| PH 1 |  |  | 50 | 614.176735 | 5 |
| PH 2 | | | | 614.176736 | |
| PH 3 | | | | 614.176737 | |



| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|---|--|-------------|------------|---------|
| PH 1 |  |  | 73 | 614.176774 | 5 |
| PH 2 | | | | 614.176775 | |



| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|---|--|-------------|------------|---------|
| PH 1 |  |  | 89 | 614.176850 | 5 |
| PH 2 | | | 110 | 614.176739 | 3 |
| PH 3 | | | | 614.176851 | 5 |

1/4" PH BIT – HEX QUICK CHANGE



| Tip size | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|----------|-----|-------|-------------|-----------------|---------|
| PH 1 | | | 50 | 614.6421 | 10 |
| PH 2 | | | 100 | 614.6425 | 1 |
| | | | 155 | 614.6426 | |
| | | | 50 | 614.6423 | |
| PH 3 | | | | | |



| Designation | Phillips-Head System | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|---|-----|-------|-------------|-------------------|---------|
| PH 2 | MSVM 2 - Magazine attachment - Makita | | | 152 | 614.100201 | 3 |
| | MSVW 1 - Magazine attachment - Wurth / Bosch | | | 155 | 614.100111 | |
| | MSVW 2 - Magazine attachment - Wurth / Bosch | | | 168 | 614.100211 | |
| | S50-TB - Magazine screw attachment - Wurth/Kress/Eibenstock | | | 176.5 | 614.100212 | |

1/4" PZ BIT – HEX



| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|-----|-------|-------------|------------------|---------|
| PZ 1 | | | 25 | 614.11251 | 10 |
| PZ 2 | | | | 614.11252 | |
| PZ 3 | | | | 614.11253 | |



| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|-----|-------|-------------|-------------------|---------|
| PZ 0 | | | 25 | 614.176640 | 1 |
| PZ 1 | | | | 614.176651 | |
| PZ 2 | | | | 614.176652 | |
| PZ 3 | | | | 614.176653 | |
| PZ 4 | | | 32 | 614.176751 | |



1/4" PZ BIT – HEX



| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|-----|-------|-------------|-------------------|---------|
| PZ 1 | | | 50 | 614.176694 | 5 |
| PZ 2 | | | | 614.176695 | |
| PZ 3 | | | | 614.176696 | |

1/4" PZ BIT – HEX QUICK CHANGE





| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|---|--|-------------|------------|---------|
| PZ 1 |  |  | 73 | 614.176776 | 5 |
| PZ 2 | | | | 614.176777 | |

1/4" AW® BIT – HEX



Benefits of AW drive:

- Improved force transfer
- Longer service life
- Optimum centring
- Bits have largest possible contact surface in the screw drive
- Even force distribution prevents damage to the surface-protection coating and therefore ensures better resistance to corrosion.

| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|---|---|-------------|----------|---------|
| AW® 10 |  |  | 25 | 614.5110 | 10 |
| AW® 20 | | | | 614.5120 | |
| AW® 25 | | | | 614.5125 | |
| AW® 30 | | | | 614.5130 | 2 |
| AW® 40 | | | | 614.5140 | 10 |

1/4" AW® BIT – HEX QUICK CHANGE





Benefits of AW drive:

- Improved force transfer
- Longer service life
- Optimum centring
- Bits have largest possible contact surface in the screw drive

Ejection forces:

Ejection forces virtually zero. Even force distribution prevents damage to the surface-protection coating and therefore ensures better resistance to corrosion.

| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|---|---|-------------|----------|---------|
| AW® 10 |  |  | 50 | 614.5210 | 5 |
| AW® 20 | | | | 614.5220 | |
| AW® 25 | | | | 614.5225 | |
| AW® 30 | | | | 614.5230 | 2 |
| AW® 40 | | | | 614.5240 | |

1/4" TX BIT – HEX



| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|-----|-------|-------------|----------|---------|
| TX 10 | | | 25 | 614.3110 | 1 |
| TX 15 | | | | 614.3115 | |
| TX 20 | | | | 614.3120 | |
| TX 25 | | | | 614.3125 | |
| TX 27 | | | | 614.3127 | |
| TX 30 | | | | 614.3130 | |
| TX 40 | | | | 614.3140 | |

1/4" TX BIT – HEX QUICK CHANGE



| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|-----|-------|-------------|----------|---------|
| TX 10 | | | 70 | 614.3310 | 5 |
| TX 15 | | | | 614.3315 | |
| TX 20 | | | | 614.3320 | |
| TX 25 | | | | 614.3325 | |
| TX 27 | | | | 614.3327 | |
| TX 30 | | | | 614.3330 | |

10 MM TX BIT – HEX



With 10mm hexagon

| Designation | Tip | Drive (mm) | Length (mm) | Art. No. | P. Qty. |
|-------------|-----|------------|-------------|------------|---------|
| TX 30 | | | 30 | 614.788830 | 1 |
| TX 40 | | | | 614.788840 | |
| TX 45 | | | | 614.788845 | |

ROBERTSON SQUARE RECESS DRIVE BITS



- Hex shank 1/4".
- Manufactured from impact-resistant hardened steel for maximum durability.

| Drive Size | L=1" | L=2" | L=3" | L=4" | L=6" | P. Qty. |
|------------|-----------|-----------|-----------|-----------|-----------|---------|
| | Art. No. | Art. No. | Art. No. | Art. No. | Art. No. | |
| #0 | - | - | - | - | - | 5 |
| #1 | - | 614.99912 | 614.99913 | 614.99914 | 614.99916 | |
| #2 | 614.99921 | 614.99922 | 614.99923 | 614.99924 | 614.99926 | |
| #3 | 614.99931 | 614.99932 | 614.99933 | 614.99934 | 614.99936 | |

1/4" HEXAGON POWERDRIV®



With POWERDRIV®:

- Force is distributed across the curved surfaces on each side of the hexagon. This reduces the load on the screw and bit

Without POWERDRIV®:

- Force is exerted only at individual points. The result: high point load on screw and bit

| Tip size (mm) | Tip type | Drive | Length (mm) | Art. No. | P. Qty. |
|---------------|----------|-------|-------------|------------|---------|
| 2 | | | 25 | 614.17692 | 5 |
| 2.5 | | | | 614.176925 | |
| 3 | | | | 614.17693 | |
| 4 | | | | 614.17694 | |
| 5 | | | | 614.17695 | |
| 6 | | | | 614.17696 | |

HEXAGON SOCKET BIT



10 mm hex socket

| Tip size (mm) | Tip | Drive (mm) | Length (mm) | Art. No. | P. Qty. |
|---------------|-----|------------|-------------|------------|---------|
| 7 | | | 30 | 614.788307 | 1 |
| 8 | | | | 614.788308 | |

TRIPLE SQUARE BIT



Triple square 10 mm

| Tip size | Tip | Drive (mm) | Length (mm) | Art. No. | P. Qty. |
|----------|-----|------------|-------------|------------|---------|
| XZN M5 | | | 30 | 614.788405 | 1 |
| XZN M6 | | | | 614.788406 | |
| XZN M8 | | | | 614.788408 | |

REVERSIBLE BLADE



- Special treatment for high tip strength
- Würth colour coding system for fast identification
- Black-point tip for highly precise fit
- 6.35 mm = 1/4" hexagon mount

| Designation | Tip Type | Length (mm) | Art. No. | P. Qty. |
|------------------------|----------|-------------|----------|---------|
| Blade PH1 - PH2 | | 175 mm | 613.8091 | 1 |
| Blade TX10 - TX15 | | | 613.8092 | |
| Blade TX20 - TX25 | | | 613.8093 | |
| Blade TX30 - TX45 | | | 613.8094 | |
| Blade Allen head 4 - 5 | | | 613.8095 | |
| Blade PZ2 - Slot 6 mm | | | 613.8096 | |

1/4" ONE TOUCH BIT HOLDER



Easy release and change of bit.



Push down the button to release the bit.



The strong magnet will magnetize the bit, securing a firm hold of the screw.



The bit will shoot forward, allowing easy removal.



Diameter of only 10mm.

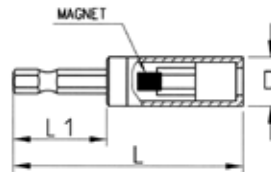
Art No. 614.176638 P. Qty. 1

With a soft push on the button, the bit will shoot forward due to the internal spring and position itself for easy removal. A new bit can then quickly be inserted. Especially for jobs that require different bits the new One Touch Bit Holder is a simple but unique product that makes changing bits very fast and easy.

- Extra strong magnet holds the screw in place.
- The One Touch Bit Holder can be operated with gloves.
- Packed in clear PVC box for safe storage.
- Stainless steel housing.



MAGNETIC BIT HOLDER



Self-adjusting, 1/4" automatic holder for safe and efficient working

The high-quality ring magnet automatically adjusts to the depth of the screw head.

- This guarantees reliable bit mounting and optimum screw grip (e.g. machine bolts).

Simple and rapid replacement of 1/4" standard bits

No abrasive ring when installing screws flush
Countersink screws by sliding back the sleeve.

| Tip size | D (mm) | L (mm) | L1 (mm) | Art. No. | P. Qty. |
|----------|--------|--------|---------|------------|---------|
| 1/4" | 14 | 67 | 27 | 614.811320 | 1 |

BIT HOLDER, INTERCHANGEABLE BLADE WITH QUICK-CHANGE CHUCK



| Drive (mm) | Drive Type | Tip Size (in.) | Tip Type | Length (mm) | Art. No. | P. Qty. |
|------------|---------------|----------------|-------------------------|-------------|----------|---------|
| 6 | Outer Hexagon | 1/4" | Internal Hexagon Socket | 165 | 613.704 | 1 |

MAGNETIC BIT HOLDER



| Drive (in.) | Drive Type | Tip Size (in.) | Tip Type | Length (mm) | Art. No. | P. Qty. |
|-------------|---------------|----------------|-------------------------|-------------|----------|---------|
| 1/4" | Outer Hexagon | 1/4" | Internal Hexagon Socket | 150 | 613.712 | 1 |

FLEXIBLE BIT HOLDER





| Drive (in.) | Drive Type | Tip Size (in.) | Tip Type | Length (mm) | Art. No. | P. Qty. |
|-------------|---------------|----------------|-------------------------|-------------|----------|---------|
| 1/4" | Outer Hexagon | 1/4" | Internal Hexagon Socket | 175 | 613.713 | 1 |

1/4" UNIVERSAL HOLDER – HEX QUICK CHANGE



Stainless steel sleeve, snap ring and permanent magnet



| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|------------------|--|--|-------------|------------|---------|
| Universal holder | 1/4"  | 1/4"  | 74 | 614.176702 | 1 |
| | | | 58 | 614.176683 | |
| | | | 175 | 614.176758 | |



Quick-change chuck and permanent magnet

Super-fast tool change

- Pushing the clamping bush forward slightly releases the latch mechanism.

| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|----------------------|--|--|-------------|------------|---------|
| Multi-purpose holder | 1/4"  | 1/4"  | 75 | 614.176708 | 1 |





Quick-change chuck

For screwing in metallic environments

- Magnet not included. The magnetic force would attract chips.

Super-fast tool change

- Pushing the clamping bush forward slightly releases the latch mechanism.

| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|----------------------|--|--|-------------|------------|---------|
| Multi-purpose holder | 1/4"  | 1/4"  | 51 | 614.176711 | 1 |

1/4" 2 IN 1 ADAPTER



Socket wrench and bit adapter in one tool

- By simply sliding, the sleeve can be used as a socket wrench adapter and a bit holder
- Blade holder 1/4" Hex quick change for 1/4" square socket wrench inserts or 1/4" hexagon



| Length (mm) | Drive (in.) | Tip size (in.) | Blade length (mm) | Sleeve diameter (mm) | Art. No. | P. Qty. |
|-------------|-------------|----------------|-------------------|----------------------|-------------------|---------|
| 60 | 1/4" | 1/4" | 26 | 13 | 614.176636 | 1 |

1/4" ADAPTER – HEX QUICK CHANGE



- DIN 7428

| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|------|-------|-------------|-------------------|---------|
| Adapter | 1/4" | 1/4" | 50 | 614.176726 | 1 |
| | | 3/8" | | 614.176727 | |
| | | 1/2" | 74 | 614.176780 | |

ADAPTERS

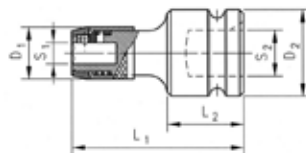


Non-magnetic holder

- For use in metallic environments where magnets might attract metal chips
- DIN 7427

| Designation | Tip | Drive | Length (mm) | Art. No. | P. Qty. |
|-------------|-------|-------|-------------|-------------------|---------|
| Adapter | 1/4" | 1/4" | 25 | 614.176680 | 1 |
| | 5/16" | 3/8" | 30 | 614.176682 | |

1/4" BIT ADAPTER



Quick-change chuck

Drive: 1/4" square drive, DIN 3121

- For use with ratchet or square drive

Output: 1/4" hexagon socket, DIN 3126

| S1 (in.) | S2 (in.) | L1 (mm) | L2 (mm) | D1 (mm) | D2 (mm) | Art. No. | P. Qty. |
|----------|----------|---------|---------|---------|---------|-----------------|---------|
| 1/4" | 1/4" | 30 | 11 | 13 | 14 | 715.1101 | 1 |

BIT SET WITH HOLDER



Provides fast access to all of your bits!

Art. No. 614.203 17 pcs.

Practical bit set with all common bits and practical metal belt clip

- Fast access to bits
- **16 bits:** Length 25 mm, 1/4" holder
- **1** universal bit holder

| Drive style | Drive size | Qty. |
|------------------|-----------------|------|
| ⊕ | PH 1 | 1 |
| | PH 2 | |
| ⊕ | PZ 1 | |
| | PZ 2 | |
| | PZ 3 | |
| ◐ | 0.8 x 5.5 mm | |
| ⬡ | 4 mm Allen Head | |
| | 5 mm Allen Head | |
| ⊗ | TX 15 | |
| | TX 20 | |
| | TX 25 | |
| | TX 30 | |
| ⊗ | AW® 10 | |
| | AW® 20 | |
| | AW® 25 | |
| | AW® 30 | |
| Universal Holder | | |

SECURITY TX BIT ASSORTMENT



Art. No. 614.250352 6 pcs.

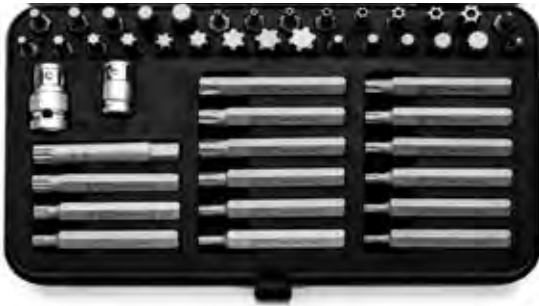
Security Torx Screws are used in applications to prevent unauthorized tampering

Applications:

- Air bags, ABS brakes, ignition systems, etc., protective barriers, guide rails, Plexiglass panes, bus stops, park benches, school furniture, school bus repair and manufacturers, etc., distributor boxes, switch boards, charging units, air conditioning units, domestic appliances, telephones, etc.

| Designation | Tip | Drive | Art. No. | P. Qty. |
|------------------------|-----|--------|-------------------|---------|
| TX 10 with inside hole | ⊗ | 1/4" ⊗ | 614.352610 | 1 |
| TX 15 with inside hole | | | 614.352615 | |
| TX 20 with inside hole | | | 614.352620 | |
| TX 25 with inside hole | | | 614.352625 | |
| TX 30 with inside hole | | | 614.352630 | |
| TX 40 with inside hole | | | 614.352640 | |

BIT ASSORTMENT



Art. No. 965.12470 47 pcs.

47-piece set with the most common 10 mm bits for the automotive and cargo sectors. Includes 2 adapters in metal case with foam insert with clamping effect.

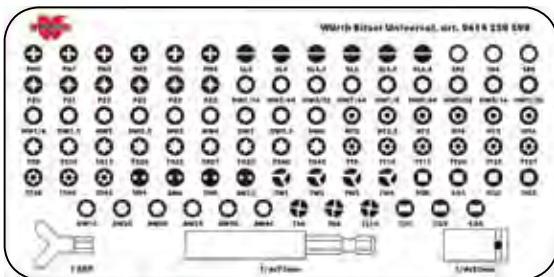
- 8 TX bits with hole, 10 mm, length 30 mm: TX 20, 25, 27, 30, 35, 40, 45, 50
- 8 TX bits, 10 mm, length 75 mm: TX 20, 25, 27, 30, 35, 40, 45, 50
- 5 hex socket Bits, 10 mm, length 30 mm: Sizes 5, 6, 7, 8 and 10 mm
- 5 triple square bits, 10 mm, length 30 mm: XZN M 5, 6, 8, 10, 12
- 4 triple square bits, 10 mm, length 75 mm: XZN M 6, 8, 10, 12
- 9 Torx insert bits, 10 mm, length 30 mm: RI 5, 6, 7, 8, 9, 10, 12, 13, 14
- 4 Torx insert bits, 10 mm, length 75 mm: RI 5, 6, 8, 10
- 2 PH bits, 10 mm, length 30 mm: PH 2, 3
- 1 adapter for 1/2" ratchet tool
- 1 adapter for 3/8" ratchet tool

UNIVERSAL BIT SET



Art. No. 614.250500 90 pcs.

- 1/4" drive
- Magnetic
- Includes all standard drive styles and safety screws
- Includes 1/4" drive magnetic ratchet adapter
- In sturdy metal box
- Comes in foam insert to keep the bits nicely organized
- Connector
- Universal bit holders
- Special bit for eyelet screw
- Slotted bits, 6 pcs
- PR bits, 6 pcs
- PZD bits, 6 pcs
- AW bits, 6 pcs
- Bits for hexagon sockets, measurements in inches, 10 pcs
- Bits for hexagon sockets 8 pcs
- Bits for hexagon sockets with hole, 6 pcs
- TX bits, 9 pcs
- TX bits with hole, 9 pcs
- XZN bits, 3 pcs
- Spanner bits, 4 pcs
- Tri Wing bits, 4 pcs
- Bits for recessed cabinets, 4 pcs
- Torque bits, 3 pcs
- "Double wedge" bits, 3 pcs



UNIVERSAL BIT SET WITH EXTENSIONS



Art. No. 614.250300 105 pcs.

Extensive 1/4" bit assortment with most common standard and safety bits in short and long versions.

- A majority of the bits are for safety screws. Used wherever unauthorized loosening is to be prevented.
- Includes two bit adapters and one screw hook.
- The solution for virtually all screw types.
- In practical metal box with foam insert for all hand-guided or machine bits.

Areas of Application:

Public facilities, motor vehicle and motorcycle sector, plumbing applications, construction industry, electrical, electronics and machine sector.

| Designation | Tip | Length | Art. No. | Qty. |
|-----------------|--------------|--------------|------------|------|
| AW [®] | 10 | 25 mm | 614.5110 | 1 |
| AW [®] | 20 | | 614.5120 | 2 |
| AW [®] | 25 | | 614.5125 | 1 |
| AW [®] | 30 | | 614.5130 | |
| AW [®] | 40 | | 614.5140 | |
| Slotted | 0.6 x 4.5 mm | | 614.175652 | |
| Slotted | 0.8 x 5.5 mm | | 614.175653 | |
| Slotted | 1.2 x 6.5 mm | | 614.175655 | |
| Slotted | 1.2 x 8 mm | | 614.175656 | |
| PH | 0 | | 614.176270 | 2 |
| PH | 1 | | 614.176274 | |
| PH | 2 | | 614.176461 | 3 |
| PH | 3 | | 614.176648 | 1 |
| PZ | 0 | | 614.176640 | |
| PZ | 1 | | 614.176651 | 2 |
| PZ | 2 | 614.176652 | 3 | |
| PZ | 3 | 614.176653 | 1 | |
| TX | 8 | 614.3108** | | |
| TX | 10 | 614.3110 | | |
| TX | 15 | 614.3115 | | |
| TX | 20 | 614.3120 | | |
| TX | 25 | 614.3125 | | |
| TX | 27 | 614.3127 | | |
| TX | 30 | 614.3130 | | |
| TX | 40 | 614.3140 | | |
| TX | 45 | 614.31451** | | |
| Allen Head | 2 mm | 614.17692 | | |
| Allen Head | 2.5 mm | 614.176925 | | |
| Allen Head | 3 mm | 614.17693 | | |
| Allen Head | 4 mm | 614.17694 | | |
| Allen Head | 5 mm | 614.17695 | | |
| Allen Head | 6 mm | 614.17696 | | |
| Allen Head | 1/4" | 614.176963** | | |
| Allen Head | 7 mm | 614.17697** | | |
| TX with hole | 8 | 614.352608 | | |

| Designation | Tip | Length | Art. No. | Qty. |
|----------------------|--------------------------|-------------|--------------|------|
| TX with hole | 10 | 25 mm | 614.352610 | 1 |
| TX with hole | 20 | | 614.352620 | |
| TX with hole | 25 | | 614.352625 | |
| TX with hole | 27 | | 614.352627 | |
| TX with hole | 30 | | 614.352630 | |
| TX with hole | 40 | | 614.352640 | |
| TX with hole | 45 | | 614.352645 | |
| Claw Wrench | 4/6/8/10 | | 614.250302 | 4 |
| Three-wing | 1/2/3/4 | | 614.250303 | |
| | 6/8/10 | | 614.250304 | 3 |
| XZN | M4/5/6/8 | | 614.250305 | 4 |
| Allen head in inches | 1/8", 9/64" 5/32", 3/16" | | 614.250306 | |
| | M5/6/7/8 | | 614.250307 | |
| Allen head w hole | 2/2.5/3/4 mm | | 614.250308** | |
| Allen head w hole | 5/6/7 mm | | 614.250309** | 3 |
| Square | 1/2/3/4 | 614.250310 | 4 | |
| Clutch | 3/32", 1/8", 5/32" | 614.250311 | 3 | |
| Slotted | 0.8 x 5 mm | 614.175662 | 1 | |
| PH | 1 | 614.176774 | | |
| PH | 2 | 614.176775 | | |
| Three-wing | 1 | 614.176301 | | |
| Three-wing | 2 | 614.176302 | | |
| Claw wrench | 6 | 614.176406 | | |
| Claw wrench | 8 | 614.176408 | | |
| TX with hole | 10 | 614.3610*** | | |
| TX with hole | 15 | 614.3615*** | | |
| TX with hole | 20 | 614.3620*** | | |
| TX with hole | 25 | 614.3625*** | | |
| TX with hole | 30 | 614.3630*** | | |
| Five-star with Hole | 20 | 614.176420 | | |
| Five-star with Hole | 25 | 614.176425 | | |
| Five-star with Hole | 30 | 614.176430 | | |
| Screw Hooks | 1/4" | 26 mm | 614.176400 | |
| Bit Adaptor | 1/4" | 30 mm | 614.176680 | |
| Magnetic Bit Holder | 1/4" | 70 mm | 614.176702 | |

** Available only in set 614.250301 - Special order only

*** Available in prefix 614.37XX - Special order only

91 PIECES 1/4" UNIVERSAL BIT ASSORTMENT

Art. No. 614.250091 91 pcs

Extensive bit assortment with short and long versions of the most common standard bits and bit ratchet.

Contains all bits for the most popular standard screws

70 mm long bits for hard-to-reach places

EASY REMOVAL AND CLEARLY ARRANGED BIT STORAGE

- Foam inserts with stamped profile designation
- Colour-coding system for bits - see at a glance which bit fits which screw

BIT RATCHET

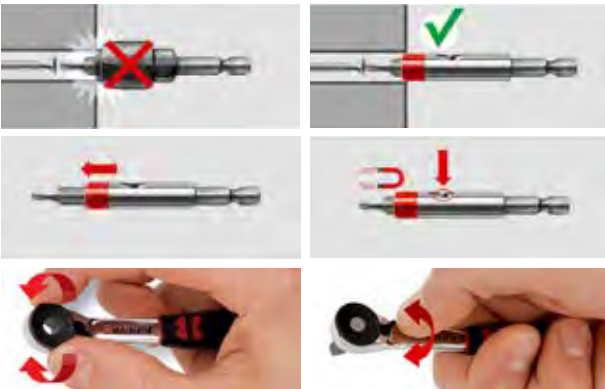
- Very compact ratchet head, very slim design, 10° angled
- Finely toothed, 64 teeth
- With 2-component comfortable handle

BIT HOLDER

- Very rapid, easy and safe bit replacement
- One-hand quick-change function: Pressing lightly on the knob shoots the bit forwards.
- Access to low-lying and hard-to-reach screw heads is possible thanks to the very slim design (max. \varnothing 10.5 mm)

SCOPE OF DELIVERY

- 25 mm bits
- 3x PH 1, 9x PH2, 3x PH3
- 3x PZ1, 9x PZ2, 3x PZ3
- 1x TX8, 1x TX10, 1x TX15, 2x TX20, 2x TX25, 1x TX27, 1x TX30, 1x TX40
- 1x slot 3.0; 4.5; 5.5; 6.5; 8.0 mm
- 1x AW10, 5x AW20, 2x AW25, 1x AW30, 1x AW40
- 1x square drive 1, 2, 3, 4 mm
- Hexagon socket 1x 1.5; 1x 2; 1x 2.5; 1x 3; 2x 4; 2x 5; 2x 6; 1x 1/4 inch; 1x 7; 1x 8mm
- 70 mm bits
- 1x PH1, 2x PH2, 1x PH3
- 1x PZ1, 2x PZ2, 1x PZ3
- 1x TX20, TX25, TX30
- 1x AW10, AW20, AW30
- 1x slot 5.0 mm
- 1x bit ratchet, art. no. 07120145
- 1x magnetic bit holder, art. no 0614176638
- 1x square to hex adapter, art. no 0614176700
- 1x hex to square adapter, art. no. 0614176680
- **Drive:** 1/4 inch
- **Length:** 220 mm
- **Width:** 110 mm
- **Height:** 35 mm



REVERSIBLE BLADES ASSORTMENT

Art. No. 613.760 13 pcs.

13-piece assortment with variable handle

Features:

- Can be used as a standard screwdriver in the straight position or as a T-handle in the 90° position thanks to the adjustable handle
- 2K handle
- Würth colour coding system for fast identification
- Also suitable as longer bit for cordless drill
- Screwdriver with T-handle function
- 1 blade each of PH 1 - 4 mm slotted; PH 2 - PH 3; PZ 1 - 5 mm slotted; PZ 2 blade - 6 mm slotted; PZ 3 - 7 mm slotted
- 1 hex socket blade 3 mm - hex socket 3 mm ball; hex socket 4 mm - hex socket 4 mm ball; hex socket 5 mm - hex socket 5 mm ball; hex socket 6 mm - hex socket 6 mm ball
- 1 blade each of TX 10-TX 15; TX 20-TX 25; TX 30-TX 40
- Metal box (220 x 110 x 35 mm)



ALLEN KEYS



Short version

- Bright nickel-plated
- Chamfered front edges



| Ø (mm) | L1 (mm) | | L2 (mm) | | Art. No. | P. Qty. |
|--------|---------|--|---------|--|-----------|---------|
| 1.0 | 45 | | 14 | | 715.3159 | 1 |
| 1.5 | 47 | | 16 | | 715.3135 | |
| 2.0 | 52 | | 18 | | 715.3136 | |
| 2.5 | 59 | | 21 | | 715.3137 | |
| 3.0 | 66 | | 23 | | 715.3138 | |
| 3.5 | 70 | | 26 | | 715.3157 | |
| 4.0 | 74 | | 29 | | 715.3139 | |
| 4.5 | 80 | | 31 | | 715.31391 | |
| 5.0 | 85 | | 33 | | 715.3140 | |
| 5.5 | 90 | | 35 | | 715.31401 | |
| 6.0 | 96 | | 38 | | 715.3141 | |
| 7.0 | 102 | | 41 | | 715.3142 | |
| 8.0 | 108 | | 44 | | 715.3143 | |
| 9.0 | 114 | | 47 | | 715.3144 | |
| 10.0 | 122 | | 50 | | 715.3145 | |
| 11.0 | 129 | | 53 | | 715.3146 | |
| 12.0 | 137 | | 57 | | 715.3147 | |
| 14.0 | 154 | | 70 | | 715.3148 | |
| 16.0 | 168 | | 73 | | 715.31481 | |
| 17.0 | 177 | | 80 | | 715.3149 | |
| 19.0 | 199 | | 89 | | 715.3150 | |
| 22.0 | 222 | | 102 | | 715.3151 | |



Long version

- Bright nickel-plated
- Chamfered front edges



| Ø (mm) | L1 (mm) | | L2 (mm) | | Art. No. | P. Qty. |
|--------|---------|--|---------|--|----------|---------|
| 2.5 | 115 | | 21 | | 715.3118 | 1 |
| 3.0 | 129 | | 23 | | 715.3119 | |
| 4.0 | 144 | | 29 | | 715.3120 | |
| 5.0 | 165 | | 33 | | 715.3121 | |
| 6.0 | 186 | | 38 | | 715.3122 | |
| 7.0 | 197 | | 41 | | 715.3123 | |
| 8.0 | 208 | | 44 | | 715.3124 | |
| 9.0 | 219 | | 47 | | 715.3125 | |
| 10.0 | 234 | | 50 | | 715.3126 | |
| 11.0 | 238 | | 53 | | 715.3127 | |
| 12.0 | 262 | | 57 | | 715.3128 | |
| 14.0 | 294 | | 70 | | 715.3129 | |
| 17.0 | 337 | | 80 | | 715.3130 | |



Extra-long version – Ball Head

- Brushed chromium-plated
- Allen key with a max. angle of 25°

| Ø (mm) | L1 (mm) | | L2 (mm) | | Art. No. | P. Qty. |
|--------|---------|--|---------|--|-----------|---------|
| 1.3 | 73 | | 12 | | 715.40013 | 1 |
| 1.5 | 89 | | 15 | | 715.40015 | |
| 2.0 | 99 | | 18 | | 715.4002 | |
| 2.5 | 111 | | 20 | | 715.40025 | |
| 3.0 | 125 | | 22 | | 715.4003 | |
| 4.0 | 138 | | 29 | | 715.4004 | |
| 5.0 | 158 | | 32 | | 715.4005 | |
| 6.0 | 178 | | 36 | | 715.4006 | |
| 8.0 | 198 | | 43 | | 715.4008 | |
| 10.0 | 221 | | 50 | | 715.4010 | |
| 12.0 | 247 | | 57 | | 715.4012 | |

ALLEN KEY SETS



9 pcs, in plastic holder, short version

- Bright nickel-plated
- Chamfered front edges

| Set | Contents (mm) | Art. No. | P. Qty. |
|-------|--------------------------------|------------------|---------|
| 9-pc. | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 | 715.31100 | 1 |

10 pcs, in plastic holder, short version

- Bright nickel-plated
- Chamfered front edges

| Set | Contents (mm) | Art. No. | P. Qty. |
|--------|------------------------------------|------------------|---------|
| 10-pc. | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12 | 715.31110 | 1 |

7 pcs, in plastic holder, short version

- Bright nickel-plated
- Chamfered front edges

| Set | Contents (in.) | Art. No. | P. Qty. |
|-------|--|------------------|---------|
| 7-pc. | 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 1/4 | 715.31100 | 1 |

9 pcs, in plastic holder, long version

- Bright nickel-plated
- Chamfered front edges

| Set | Contents (mm) | Art. No. | P. Qty. |
|-------|--------------------------------|------------------|---------|
| 9-pc. | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 | 715.31120 | 1 |

TX ALLEN KEY SET



8 pcs, in plastic holder

- TX socket
- Round blade
- Bright nickel-plated

| Set | Contents | Art. No. | P. Qty. |
|-------|----------------------------------|------------------|---------|
| 8-pc. | TX 9, 10, 15, 20, 25, 27, 30, 40 | 715.36100 | 1 |

ALLEN KEY WITH BALL HEAD SET



9 pcs, ball head, extra-long version, in plastic holder with sliding function

- Plastic holder with sliding function for one-handed opening
- Allen key with an angle of max. 25°

| Set | Contents (mm) | Art. No. | P. Qty. |
|-------|--------------------------------|------------------|---------|
| 9-pc. | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 | 715.40100 | 1 |

LONGWING BUTTERFLY ALLEN SET HEX WITH BALL HEAD



Art. No. 715.4050 - P. Qty. 1

9 pcs, ball head, extra-long version, in plastic holder

Features:

- Easy removal of Allen keys – the rotation of one key, turns all other keys in the same direction.
- Allen key with an angle of max. of 25°

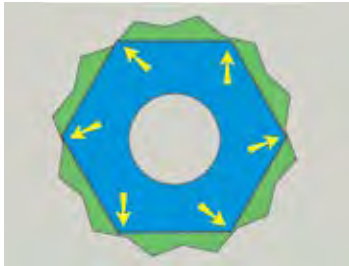
| Set (hex symbol) | Contents (mm) | Art. No. | P. Qty. |
|------------------|--------------------------------|-----------------|---------|
| 9 Pcs | 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 | 715.4050 | 1 |

POWERDRIV®

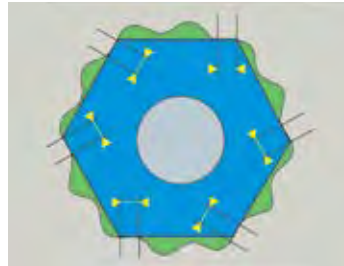
For secure gripping and high transmission of force.

The POWERDRIV® system was developed to meet the particularly high demands of the aviation industry in order to provide the highest level of fit tolerances.

The POWERDRIV® system enables a high transmission of forces at the ring and reduces wear on the bolt heads.



Without POWERDRIV®
= linear pressure



With POWERDRIV®
= Surface pressure

Overturning values above DIN:

Highest overturning values for the most extreme conditions.

The principle

The POWERDRIV® does not grip bolt heads at the corner as is usually the case, rather it grips the sides. This enlarges the driving flat and permits a higher transmission of force. After overturning, widths across flats remain within DIN specifications.

- The service life of the screws is increased, as stripping of heads is prevented.
- Even old and rusty screws can be loosened virtually trouble-free with the POWERDRIV® without rounding off.

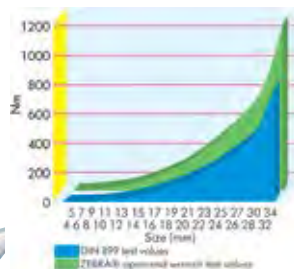


Precision

- The tight tolerances of the widths across flats guarantees greater reliability and safety when used intensively.



For above DIN

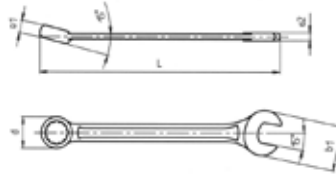


High-quality material



- Extremely resilient high-quality chrome-vanadium steel.
- Nickel pretreatment achieves optimum chrome adhesion, even under the heaviest mechanical stresses.
- Rounded finish prevents sharp corners and edges.
- Matte chrome plating ensures a good grip even in oily hands.

COMBINATION WRENCH, SHORT TYPE



Metric DIN 3113A/ISO 3318/7738

- Ring side drive: **POWERDRIV®** bi-hex
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads and ring
- Geometry: Ring side angled 15°, head offset 15°

| (mm) | L (mm) | b1 (mm) | Dia. d (mm) | a1 (mm) | a2 (mm) | Art. No. | P. Qty. |
|------|--------|---------|-------------|---------|------------------|-------------------|---------|
| 5.5 | 100 | 14.0 | 10.5 | 5.5 | 3.7 | 713.301055 | 1 |
| 6 | | | | | | 713.30106 | |
| 7 | 110 | 16.0 | 11.8 | 6.0 | 4.0 | 713.30107 | |
| 8 | | | | | | 713.30108 | |
| 9 | 130 | 20.0 | 14.6 | 7.0 | 4.5 | 713.30109 | |
| 10 | 140 | 22.5 | 16.1 | 7.5 | 4.5 | 713.30110 | |
| 11 | 150 | 25.0 | 17.4 | 8.0 | 5.0 | 713.30111 | |
| 12 | 160 | 27.0 | 18.9 | 8.5 | 5.5 | 713.30112 | |
| 13 | 170 | 29.0 | 20.4 | 9.0 | | 713.30113 | |
| 14 | 180 | 31.0 | 21.6 | 9.5 | 6.0 | 713.30114 | |
| 15 | 190 | 33.5 | 22.9 | 10.0 | | 713.30115 | |
| 16 | 200 | 36.0 | 24.6 | | | 713.30116 | |
| 17 | 205 | 38.0 | 26.1 | 10.5 | 6.5 | 713.30117 | |
| 18 | 215 | 40.0 | 27.7 | 11.0 | 7.0 | 713.30118 | |
| 19 | 230 | 42.0 | 29.9 | 11.5 | 7.5 | 713.30119 | |
| 20 | 240 | 45.0 | 30.7 | 12.0 | 8.0 | 713.30120 | |
| 21 | 250 | 47.0 | 32.2 | 12.5 | | 713.30121 | |
| 22 | 260 | 49.0 | 33.7 | 13.5 | | 713.30122 | |
| 23 | 270 | 51.0 | 35.2 | 14.0 | 9.0 | 713.30123 | |
| 24 | 280 | 53.0 | 36.9 | 14.5 | | 713.30124 | |
| 25 | 290 | 55.0 | 38.5 | 15.0 | | 713.30125 | |
| 26 | 300 | 57.0 | 39.8 | 15.5 | | 713.30126 | |
| 27 | 310 | 59.0 | 40.8 | | 713.30127 | | |
| 28 | 320 | 62.0 | 42.8 | 16.0 | 10.0 | 713.30128 | |
| 29 | 330 | 63.5 | 43.8 | 16.5 | | 713.30129 | |
| 30 | 340 | 65.0 | 44.8 | 17.0 | | 713.30130 | |
| 32 | 350 | 69.0 | 47.8 | 17.5 | 11.0 | 713.30132 | |
| 34 | 360 | 73.0 | 50.8 | 18.0 | 12.0 | 713.30134 | |

COMBINATION WRENCH SET, SHORT TYPE, 11 PCS.



Metric DIN 3113A/ISO 3318/7738

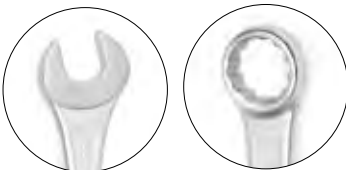
- Drive: Ring side **POWERDRIV®** bi-hexagon
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, polished heads and ring
- Geometry: Ring side angled 15°, head angle 15°

| Set | (mm) | Art. No. | P. Qty. |
|---------|--|------------------|---------|
| 11 pcs. | 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 22 | 713.30140 | 1 |

COMBINATION WRENCH ASSORTMENT, SHORT TYPE



Item Only Available by Special Order



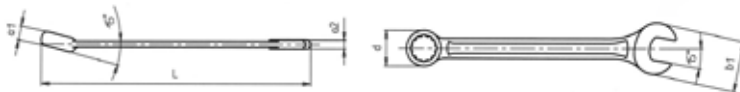
Art. No. 965.905401

Combination Wrench, 17pc System Assortment 4.4.1

- Metric, ring angled 15°.
- Number of pieces in assortment/set - 17pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

| Description | Art. No. | P. Qty. |
|---|------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905401 | |
| Combination wrench short ANGL-SHORT-6mm | 713.30106 | |
| Combination wrench short ANGL-SHORT-7mm | 713.30107 | |
| Combination wrench short ANGL-SHORT-8mm | 713.30108 | |
| Combination wrench short ANGL-SHORT-9mm | 713.30109 | |
| Combination wrench short ANGL-SHORT-10mm | 713.30110 | |
| Combination wrench short ANGL-SHORT-11mm | 713.30111 | |
| Combination wrench short ANGL-SHORT-12mm | 713.30112 | |
| Combination wrench short ANGL-SHORT-13mm | 713.30113 | |
| Combination wrench short ANGL-SHORT-14mm | 713.30114 | |
| Combination wrench short ANGL-SHORT-15mm | 713.30115 | |
| Combination wrench short ANGL-SHORT-16mm | 713.30116 | |
| Combination wrench short ANGL-SHORT-17mm | 713.30117 | |
| Combination wrench short ANGL-SHORT-18mm | 713.30118 | |
| Combination wrench short ANGL-SHORT-19mm | 713.30119 | |
| Combination wrench short ANGL-SHORT-20mm | 713.30120 | |
| Combination wrench short ANGL-SHORT-21mm | 713.30121 | |
| Combination wrench short ANGL-SHORT-22mm | 713.30122 | |

COMBINATION WRENCH, SHORT TYPE, IMPERIAL



Imperial

- Drive: Ring side **POWERDRIV®**, bi-hex
- Standard: DIN 3113A/ISO 3318/773
- Material: Chrome-vanadium steel
- Surface: chrome-plated, heads and ring polished
- Geometry: Ring side angled 15°, jaw offset 15°

| ⬡ (in.) | L (mm) | b1 (mm) | Ød (mm) | a1 (mm) | a2 (mm) | Art. No. | P. Qty. |
|---------|--------|---------|---------|---------|---------|-----------|---------|
| 1/4" | 100 | 14 | 10.5 | 5.5 | 3.7 | 713.30301 | |
| 5/16" | 120 | 18 | 13.2 | 6 | 4 | 713.30302 | |
| 3/8" | 140 | 22.5 | 16.1 | 7.5 | 4.5 | 713.30303 | |
| 7/16" | 150 | 25 | 17.4 | 8 | 5 | 713.30304 | |
| 1/2" | 170 | 29 | 20.4 | 9 | 5.5 | 713.30305 | |
| 9/16" | 180 | 31 | 21.6 | 9.5 | 6 | 713.30306 | |
| 5/8" | 200 | 36 | 24.6 | 10 | | 713.30307 | |
| 11/16" | 205 | 38 | 26.1 | 10.5 | 6.5 | 713.30308 | |
| 3/4" | 230 | 42 | 29.9 | 11.5 | 7.5 | 713.30309 | |

| ⬡ (in.) | L (mm) | b1 (mm) | Ød (mm) | a1 (mm) | a2 (mm) | Art. No. | P. Qty. |
|---------|--------|---------|---------|---------|---------|-----------|---------|
| 13/16" | 250 | 47 | 32.2 | 12.5 | 8 | 713.30310 | |
| 7/8" | 260 | 49 | 33.7 | 13.5 | | 713.30311 | |
| 15/16" | 280 | 53 | 36.9 | 14.5 | 9 | 713.30312 | |
| 1" | 290 | 55 | 38.5 | 15 | | 713.30313 | |
| 1-1/16" | 310 | 59 | 40.8 | 15.5 | 10 | 713.30314 | |
| 1-1/8" | 330 | 63.5 | 43.8 | 16.5 | | 713.30315 | |
| 1-1/4" | 350 | 69 | 47.8 | 17.5 | 11 | 713.30316 | |
| 1-5/16" | 360 | 73 | 50.8 | 18 | | 713.30317 | |

COMBINATION WRENCH SET, SHORT TYPE, IMPERIAL

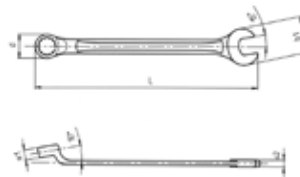


Short design, 8 pieces

- Drive: Ring side **POWERDRIV**[®], bi-hex
- Standard: DIN 3113A/ISO 3318/773
- Geometry: Ring side angled 15°, jaw offset 15°
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, polished heads and ring

| (in.) | Art. No. | P. Qty. |
|--|------------------|---------|
| 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8 | 713.30340 | 1 |

COMBINATION WRENCH, OFFSET



Design: metric

- Drive: Ring side **POWERDRIV**[®], bi-hex
- Standard: DIN 3113B/ISO 3318
- Material: Chrome-vanadium steel
- Surface: chrome-plated, heads and ring polished
- Geometry: Ring side offset 10°, head offset 15°

| (mm) | L (mm) | a1 (mm) | a2 (mm) | Ød (mm) | b1 (mm) | Art. No. | P. Qty. |
|------|--------|---------|---------|---------|---------|------------------|---------|
| 10 | 148 | 7.2 | 5.0 | 15.6 | 22.0 | 713.30210 | 1 |
| 13 | 184 | 8.6 | 6.0 | 19.4 | 28.3 | 713.30213 | |
| 16 | 220 | 10.0 | 6.8 | 23.2 | 34.6 | 713.30216 | |
| 17 | 232 | 10.5 | 7.2 | 24.4 | 36.6 | 713.30217 | |
| 18 | 244 | 11.0 | 7.4 | 25.7 | 38.7 | 713.30218 | |

| (mm) | L (mm) | a1 (mm) | a2 (mm) | Ød (mm) | b1 (mm) | Art. No. | P. Qty. |
|------|--------|---------|---------|---------|---------|------------------|---------|
| 19 | 256 | 11.5 | 7.7 | 27.0 | 40.7 | 713.30219 | 1 |
| 21 | 280 | 12.4 | 8.3 | 29.7 | 45.0 | 713.30221 | |
| 22 | 292 | 12.9 | 8.6 | 31.0 | 47.0 | 713.30222 | |
| 24 | 315 | 13.9 | 9.2 | 33.8 | 51.0 | 713.30224 | |

COMBINATION WRENCH SET, OFFSET, 9 PCS.



- Drive: Ring side **POWERDRIV**[®], bi-hex
- Standard: DIN 3113B/ISO 3318
- Geometry: Ring side offset 10°, jaw offset 15°
- The narrow design has minimised outer

dimensions, pronounced rounded contours and de-burred edges

- Material: Chromium-vanadium steel
- Surface: chrome-plated, polished heads and ring

| Set | (mm) | Art. No. | P. Qty. |
|--------|------------------------------------|------------------|---------|
| 9 pcs. | 10, 13, 16, 17, 18, 19, 21, 22, 24 | 713.30250 | 1 |

DUAL RATCHET COMBINATION WRENCH



Innovative wrench with ratchet function on the ring and open sides



- Drive: Ring-side **POWERDRIV®** modified 12-point, open side with open ratchet segment.
- Standard: max. torque as per DIN 899.
- Material: Chrome-vanadium-steel.
- Surface: polished, chrome-plated.
- Geometry: straight on ring side, 15° angle on open side. To change the turning direction, simply turn the wrench around.

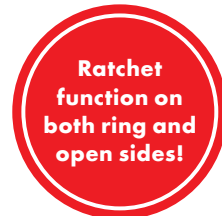
Areas of use:

Designed for union screw joints, e.g. brake lines, injection lines, air conditioning, hydraulics etc.



POWERDRIV®

|  (mm) |  | | | | | Art. No. | P. Qty. |
|---|--|---------|---------|-------------|---------|-----------|---------|
| | L (mm) | a1 (mm) | a2 (mm) | Dia. d (mm) | b1 (mm) | | |
| 8 | 140 | 4.1 | 6.5 | 16.8 | 16.7 | 714.25908 | 1 |
| 9 | 149 | 4.3 | 6.9 | 18.8 | 18.7 | 714.25909 | |
| 10 | 158 | 4.8 | 7.3 | 20.8 | 20.8 | 714.25910 | |
| 11 | 165 | 5.1 | 7.7 | 21.8 | 23.5 | 714.25911 | |
| 12 | 171 | 5.3 | 8.2 | 22.8 | 24.6 | 714.25912 | |
| 13 | 178 | 5.9 | 8.6 | 24.8 | 26.8 | 714.25913 | |
| 14 | 190 | 6.3 | 9.0 | 27.8 | 29.0 | 714.25914 | |
| 15 | 199 | 6.6 | 9.4 | 28.8 | 31.0 | 714.25915 | |
| 16 | 208 | 6.9 | 9.9 | 30.8 | 33.0 | 714.25916 | |
| 17 | 225 | 7.3 | 10.3 | 31.8 | 35.5 | 714.25917 | |
| 18 | 236 | 7.8 | 10.7 | 32.8 | 37.5 | 714.25918 | |
| 19 | 247 | 8.3 | 11.2 | 33.8 | 39.4 | 714.25919 | |
| 21 | 289 | 8.8 | 13.0 | 40.0 | 45.8 | 714.25921 | |
| 22 | | | | | | 714.25922 | |
| 24 | 322 | 9.8 | 14.5 | 46.0 | 51.8 | 714.25924 | |



- Open side features moving ratchet segment
- Enables working without stopping, as the wrench no longer needs to be taken off the nut. Ideal for all line screw joints

- Fine-toothed on ring side, 72 teeth, 5° rotating angle
- Very rugged and strong ratchet for high tightening torques

DUAL RATCHET COMBINATION WRENCH SET




Innovative wrenches with ratchet function both on ring and open sides

Contents: 6 pieces

- 1 ratchet combination wrench with double-ended ratchet function in each of the following sizes: 8; 10; 12; 13; 17; 19



| Set |  (mm) | Art. No. | P. Qty. |
|--------|--|-----------|---------|
| 6-pcs. | 8, 10, 12, 13, 17, 19 mm including plastic holder | 714.25950 | 1 |

RATCHET COMBINATION WRENCH – FLEXIBLE



POWERDRIV®





The 180° articulated joint of the ring wrench allows easy and flexible access to work, even in tight areas.



Flexible ratchet head provides greater freedom for fingers and overcomes obstacles

- Very rugged, strong ratchets for high tightening torques
- Design: Metric
- Drive: Ring side **POWERDRIV®** bi-hexagon, fine-tooth 72 teeth
- Standard: Max. torque in line with DIN 899
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, matt satin finish
- Geometry: Head offset 15°, ring side 180° joint, strong heads for heavy-duty applications

Attention: This is a special tool that may not be subjected to loads in excess of maximum torque values. For that reason, the tool is of limited suitability for loosening of tight screws.

|  (mm) |  | | | | | | Art. No. | P. Qty. |
|---|--|---------|---------|--------|---------|-----------|-----------|---------|
| | L (mm) | a1 (mm) | a2 (mm) | d (mm) | b1 (mm) | F max. Nm | | |
| 8 | 140 | 4.3 | 6.5 | 16.1 | 16.7 | 35 | 714.26308 | 1 |
| 9 | 150 | 4.6 | 6.9 | 17.9 | 18.8 | 46 | 714.26309 | |
| 10 | 159 | 5.0 | 7.3 | 19.6 | 20.9 | 59 | 714.26310 | |
| 11 | 165 | 5.4 | 7.7 | 21.4 | 23.0 | 74 | 714.26311 | |
| 12 | 172 | 5.8 | 8.2 | 22.7 | 25.1 | 91 | 714.26312 | |
| 13 | 178 | 6.1 | 8.6 | 24.7 | 27.2 | 109 | 714.26313 | |
| 14 | 191 | 6.4 | 9.0 | 26.4 | 29.3 | 131 | 714.26314 | |
| 15 | 200 | 6.9 | 9.4 | 27.7 | 31.3 | 153 | 714.26315 | |
| 16 | 208 | 7.2 | 9.9 | 29.4 | 33.4 | 179 | 714.26316 | |
| 17 | 226 | 7.6 | 10.3 | 31.2 | 35.5 | 205 | 714.26317 | |
| 18 | 237 | 8.0 | 10.7 | 32.4 | 37.6 | 235 | 714.26318 | |
| 19 | 248 | 8.6 | 11.2 | 33.4 | 39.7 | 266 | 714.26319 | |
| 21 | 274 | 9.0 | 13.0 | 39.7 | 46.0 | 330 | 714.26321 | |
| 22 | | | | | | 368 | 714.26322 | |
| 24 | 296 | 10.0 | 14.5 | 45.9 | 52.3 | 451 | 714.26324 | |

RATCHET COMBINATION WRENCH SET – FLEXIBLE




Flexible ratchet head provides greater freedom for fingers and overcomes obstacles

• **POWERDRIV®**

Contents: 6 pieces

- 1 ratchet combination wrench in each of the following sizes: 8; 10; 12; 13; 17; 19

| Set |  (mm) | Art. No. | P. Qty. |
|--------|--|-----------|---------|
| 6-pcs. | 8, 10, 12, 13, 17, 19 mm including plastic holder | 714.26350 | 1 |

FLEXIBLE RATCHET COMBINATION WRENCH ASSORTMENT

Art. No. 965.905407

Flexible Ratchet Combination Wrench, 8 pc System Assortment 4.4.1

- Number of pieces in assortment/set - 8pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

| Description | Art. No. | P. Qty. |
|---|-------------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905407 | 1 |
| Flexible ratchet combination wrench matt WS8 | 714.26308 | |
| Flexible ratchet combination wrench matt WS10 | 714.26310 | |
| Flexible ratchet combination wrench matt WS12 | 714.26312 | |
| Flexible ratchet combination wrench matt WS13 | 714.26313 | |
| Flexible ratchet combination wrench matt WS16 | 714.26316 | |
| Flexible ratchet combination wrench matt WS17 | 714.26317 | |
| Flexible ratchet combination wrench matt WS18 | 714.26318 | |
| Flexible ratchet combination wrench matt WS19 | 714.26319 | |

Item Only Available by Special Order



MULTI RATCHET COMBINATION WRENCH ASSORTMENT

Art. No. 965.905406

Multi Ratchet Combi Wrench Set, 8 pcs System Assortment 4.4.1

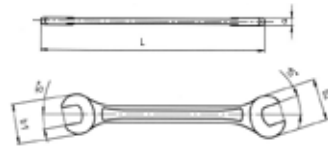
- Number of pieces in assortment/set - 8pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

| Description | Art. No. | P. Qty. |
|---|-------------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905406 | 1 |
| Multi-ratchet combination wrench - 8mm | 071425608 | |
| Multi-ratchet combination wrench - 10mm | 071425610 | |
| Multi-ratchet combination wrench - 12mm | 071425612 | |
| Multi-ratchet combination wrench - 13mm | 071425613 | |
| Multi-ratchet combination wrench - 16mm | 071425616 | |
| Multi-ratchet combination wrench - 17mm | 071425617 | |
| Multi-ratchet combination wrench - 18mm | 071425618 | |
| Multi-ratchet combination wrench - 19mm | 071425619 | |

Currently only available as a set. Individual items are special order.



DOUBLE OPEN-END WRENCH



Design: Metric

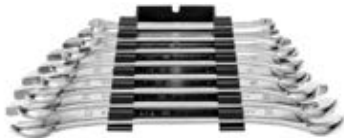
- Standard: DIN 3110 /ISO 1085
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads
- Geometry: 15° head offset, strong heavy-duty heads

| ⬤ (mm) | L (mm) | b1 (mm) | b2 (mm) | a (mm) | Art. No. | P. Qty |
|--------|--------|---------|---------|--------|------------|--------|
| 4x5 | 100 | 12 | 13 | 3.3 | 713.304045 | 1 |
| 5x5.5 | 112 | 13 | 14 | 3.5 | 713.304055 | |
| 6x7 | 125 | 14 | 16 | 3.7 | 713.304067 | |
| 8x9 | 138 | 18 | 20 | 3.9 | 713.304080 | |
| 8x10 | 146 | 18 | 22.5 | 4.5 | 713.304089 | |
| 10x11 | 158 | 22.5 | 25 | 5.0 | 713.304101 | |
| 10x13 | 168 | | 29 | 5.5 | 713.304103 | |
| 12x13 | 175 | 27 | 29 | | 713.304123 | |
| 13x17 | 200 | 29 | 38 | 6.5 | 713.304137 | |
| 14x15 | 185 | 31 | 33.5 | 6.0 | 713.304145 | |
| 16x17 | 205 | 36 | 38 | 6.5 | 713.304167 | |
| 16x18 | 212 | 36 | 40 | 7.0 | 713.304168 | |
| 17x19 | 220 | 38 | 42 | 7.5 | 713.304179 | |
| 18x19 | 225 | 40 | 42 | | 713.304189 | |
| 20x22 | 238 | 45 | 49 | 8.0 | 713.304202 | |
| 21x23 | 246 | 47 | 51 | | 713.304213 | |
| 22x24 | 256 | 49 | 53 | 9.0 | 713.304224 | |
| 24x26 | 268 | 53 | 57 | | 713.304246 | |
| 24x27 | 275 | 53 | 59 | | 713.304247 | |
| 25x28 | 285 | 55 | 62 | 10.0 | 713.304258 | |
| 27x29 | 295 | 59 | 63.5 | | 713.304279 | |
| 30x32 | 310 | 65 | 69 | 11.0 | 713.304302 | |
| 30x34 | 325 | | 73 | | 713.304304 | |

DOUBLE OPEN-END WRENCH SETS



- Standard: DIN 3110/ISO 1085
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, polished heads
- Geometry: 15° head offset, strong heavy-duty heads



Metric, 8 pieces

| Set | ⬤ (mm) | Art. No. | P. Qty |
|--------|--|-----------|--------|
| 8 pcs. | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 | 713.30440 | 1 |



Metric, 10 pieces

| Set | ⬤ (mm) | Art. No. | P. Qty |
|---------|--|-----------|--------|
| 10 pcs. | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27 | 713.30442 | 1 |



Metric, 12 pieces

| Set | ⬤ (mm) | Art. No. | P. Qty |
|---------|--|-----------|--------|
| 12 pcs. | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 | 713.30443 | 1 |

DOUBLE OPEN END RING WRENCH SET, HEXAGON, 5 PCS.



Metric

- Drive: **POWERDRIV®**
- Standard: DIN 3118
- Geometry: Ring sides angled 15°, rings angled 5°
- 7 x 9 to size 12 x 14 mm in hexagon
- 14 x 17 to size 30 x 32 mm in bi-hex
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads

Contents:

- 1 each of double open end ring wrench size 7 x 9, 8 x 10, 11 x 13, 12 x 14, 17 x 19

| Set | (mm) | Art. No. | P. Qty. |
|--------|--------------------------------|------------------|---------|
| 5 pcs. | 7x9, 8x10, 11x13, 12x14, 17x19 | 714.24050 | 1 |

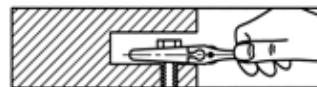
| (mm) | | | | | | | | Art. No. | P. Qty. |
|---------|--------|---------|---------|--------------|--------------|--------------|--------------|-------------------|---------|
| | L (mm) | a1 (mm) | a2 (mm) | Dia. d1 (mm) | Dia. d2 (mm) | B1 min. (mm) | B2 min. (mm) | | |
| 7 x 9 | 140 | 6.5 | 7.5 | 17.8 | 19.3 | 5 | 7 | 714.240079 | 1 |
| 8 x 10 | | | | | | 6 | | 714.240080 | |
| 11 x 13 | 174 | 8.5 | 10.5 | 22.8 | 25.3 | 9 | 11 | 714.240113 | |
| 12 x 14 | | | | | | 11 | | 714.240124 | |
| 17 x 19 | 212 | 12 | 13 | 31.2 | 33.3 | 14 | 15 | 714.240179 | |

ADJUSTABLE WRENCH



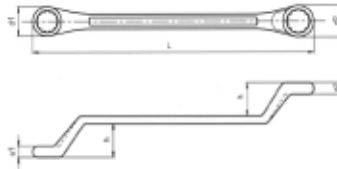
Design: Adjustable

- Standard: DIN 3117/ ISO 6787
- Material: chrome vanadium, forged.
- Surface finish: chrome-plated, heads polished.
- Geometry: jaw position 22.5°, right-handed model with metric measuring scale for quick and accurate recognition of jaw opening.
- Head shape: narrow heads for use in confined spaces.
Long jaw design for sure grip of deep-set bolts and nuts



| (mm) | L (mm) | L (inch) | B (max. mm) | S (mm) | T (mm) | Art. No. | P. Qty. |
|------|--------|----------|-------------|--------|--------|------------------|---------|
| 19.2 | 159 | 6 | 48 | 10.8 | 5.8 | 715.22106 | 1 |
| 24 | 206 | 8 | 60 | 13.5 | 7 | 715.22108 | |
| 29 | 257 | 10 | 71 | 16 | 8 | 715.22110 | |
| 34 | 310 | 12 | 83 | 19 | 10 | 715.22112 | |

DOUBLE RING WRENCH, DEEP OFFSET



Metric, DIN 838/ISO 3318

- Drive: **POWERDRIV**[®], bi-hex
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished rings
- Geometry: Ring sides offset 18°

| ⬤ (mm) | L (mm) | a1 (mm) | a2 (mm) | dia. d1 (mm) | dia. d2 (mm) | h (mm) | Art. No. | P. Qty |
|--------|--------|---------|-------------------|--------------|-------------------|-------------------|-------------------|--------|
| 6x7 | 174 | 5.4 | 5.9 | 10.8 | 12.2 | 21 | 713.305067 | 1 |
| 8x9 | 187 | 6.4 | 6.9 | 13.2 | 14.7 | 23 | 713.305089 | |
| 8x10 | 188 | 6.9 | 7.9 | | 16.3 | | 23.5 | |
| 10x11 | 194 | 7.4 | 7.9 | 17.4 | 713.305101 | | | |
| 10x13 | 215 | 7.9 | 9.9 | 16.3 | 20.7 | 24.5 | 713.305103 | |
| 12x13 | 217 | 8.4 | 9.5 | 19.0 | 20.7 | 25 | 713.305123 | |
| 13x17 | 243 | 9.9 | 11.8 | 20.7 | 26.2 | 27.5 | 713.305137 | |
| 14x15 | 227 | | 10.3 | 22.1 | 23.4 | | 713.305145 | |
| 16x17 | 247 | 10.8 | 11.3 | 25.4 | 26.2 | 28 | 713.305167 | |
| 16x18 | 250 | 11.3 | 11.8 | 25.6 | 28.2 | | 713.305168 | |
| 17x19 | 284 | | | 28.0 | 29.4 | 29.5 | 713.305179 | |
| 18x19 | | 30 | 713.305189 | | | | | |
| 20x22 | 296 | 11.8 | 12.8 | 31.2 | 33.1 | 31 | 713.305202 | |
| 21x23 | 312 | 12.3 | | 32.1 | 35.5 | | 713.305213 | |
| 22x24 | 313 | 12.8 | 14.3 | 33.0 | 37.0 | 34 | 713.305224 | |
| 24x26 | 328 | | 13.8 | 37.0 | 39.0 | | 713.305246 | |
| 24x27 | 329 | 14.3 | 41.0 | 37 | 42.0 | 36.3 | 713.305247 | |
| 25x28 | 339 | 13.8 | 14.8 | | | | 44.3 | |
| 37x29 | 342 | 14.8 | 15.8 | 41.0 | 44.3 | 39 | 713.305279 | |
| 30x32 | 359 | | | 45.0 | 48.2 | | 713.305302 | |
| 30x34 | 397 | 15.8 | 16.7 | 45.3 | 51.2 | 713.305304 | | |

DOUBLE RING WRENCH, DEEP OFFSET SETS

- Drive: **POWERDRIV**[®], bi-hex
- Material: Chromium-vanadium steel
- Surface: Chromium-plated, polished rings
- Geometry: Ring end offset 18°



Metric, DIN 838/ISO 3318, 8 pcs

| Set | ⬤ (mm) | Art. No. | P. Qty |
|--------|--|------------------|--------|
| 8 pcs. | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 | 713.30540 | 1 |

Metric, DIN 838/ISO 3318, 10 pcs

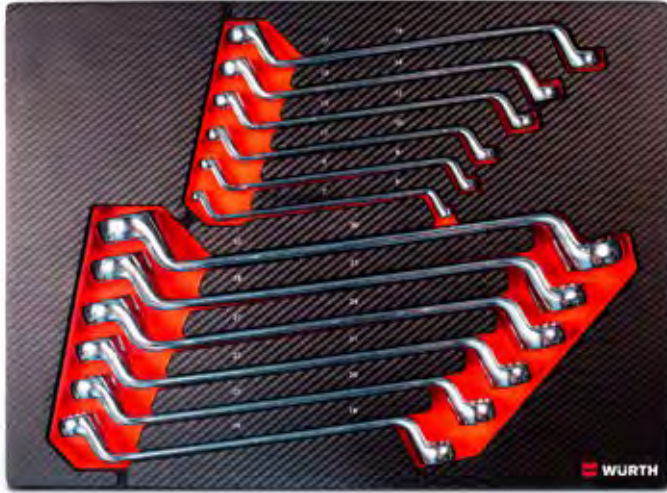
| Set | ⬤ (mm) | Art. No. | P. Qty |
|---------|--|------------------|--------|
| 10 pcs. | 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 30x32 | 713.30541 | 1 |



Metric, DIN 838/ISO 3318, 12 pcs

| Set | ⬤ (mm) | Art. No. | P. Qty |
|---------|--|------------------|--------|
| 12 pcs. | 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 | 713.30542 | 1 |

DOUBLE-END BOX WRENCH ASSORTMENT



Art. No. 965.905405

Double-End Box Wrench, 12pc Metric System Assortment 8.4.1

- Number of pieces in assortment/set - 12pc
- Size foam section - 8.4.1
- Width x height x depth - 462 x 38 x 335 mm
- Décor - Carbon appearance

| Description | Art. No. | P. Qty. |
|---|------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905405 | |
| Double ring wrench deep offset 6X7 | 713.305067 | 1 |
| Double ring wrench deep offset 8X9 | 713.305089 | |
| Double ring wrench deep offset 10X11 | 713.305101 | |
| Double ring wrench deep offset 12X13 | 713.305123 | |
| Double ring wrench deep offset 14X15 | 713.305145 | |
| Double ring wrench deep offset 16X17 | 713.305167 | |
| Double ring wrench deep offset 18X19 | 713.305189 | |
| Double ring wrench deep offset 20X22 | 713.305202 | |
| Double ring wrench deep offset 21X23 | 713.305213 | |
| Double ring wrench deep offset 24X27 | 713.305247 | |
| Double ring wrench deep offset 25X28 | 713.305258 | |
| Double ring wrench deep offset 30X32 | 713.305302 | |

Item Only Available by Special Order

DOUBLE RING RATCHET WRENCH 4-IN-1



Metric, straight

- Output: Double ring end **POWERDRIV®** bi-hexagon
- Finely toothed, 72 teeth
- Single-handed operation via reversing lever for clockwise and anti-clockwise rotation
- Material: Chromium-vanadium steel
- Basic body surface: chromium-plated, high-gloss polished

- Geometry: Straight ring end
- 4 sizes in one ratchet spanner**
- Most common wrench sizes are covered by only 2 ratchet spanners.

1/4" bit adapter available

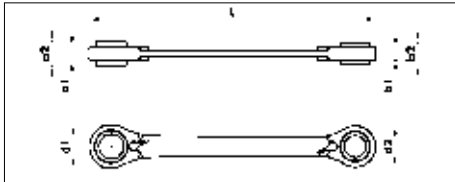
- Simply insert into size 10 mm ratchet spanner to use as a bit ratchet.

For hard-to-access areas

- Narrow ratchet head

| (mm) | | | | | | | | Art. No. | P. Qty. |
|---------------|--------|---------|---------|---------|---------|---------|---------|------------|---------|
| | L (mm) | a1 (mm) | a2 (mm) | b1 (mm) | b2 (mm) | d1 (mm) | d2 (mm) | | |
| 8x10 + 12x13 | 150 | 7.3 | 8.6 | 13.8 | 16.8 | 20.2 | 24.8 | 714.257013 | 1 |
| 10x19 + 13x17 | 200 | 9.0 | 11.2 | 17.1 | 21.9 | 27.2 | 33.6 | 714.257017 | |
| 16x17 + 18x19 | 230 | 10.3 | | 20.2 | | 31.5 | 33.5 | 714.257019 | |

METRIC DOUBLE RING RATCHET WRENCH 4-IN-1 SET




Innovative double-sided, double-ended ratcheting wrench.

- Drive: double-ring side **POWERDRIV®** bi-hex, fine-toothed, 72 teeth, one-hand operation via reversing lever for clockwise and counterclockwise use
- Material: chrome-vanadium steel
- Surface: chrome-plated, high gloss polished

- Geometry: ring side straight
- Four sizes per ratchet wrench
The most common sizes are covered by only two ratchet wrenches
- 1/4" bit adapter available.
Simply insert in size 10 mm ratchet wrench; can then be used as a bit ratchet.
- Narrow ratchet head for hard-to-reach areas


5° angle of rotation for working in the tightest of spaces. Precision-machined ring core for smooth and secure use.

| Set (comes in a clear plastic blister pack) | | Art. No. | P. Qty. | | | | | | |
|---|--|------------------|----------|----------|----------|----------|----------|-------------------|---------|
| 3 pcs. | 8x10+12x13, 16x17+18x19 Bit adapter: 10 mm x 1/4", 20 mm long | 714.25730 | 1 | | | | | | |
| Set Contents: | | | | | | | | | |
|  | L in mm | a1 in mm | a2 in mm | b1 in mm | b2 in mm | d1 in mm | d2 in mm | Art. No. | P. Qty. |
| in mm | | | | | | | | | |
| 8x10+12x13 | 160 | 8 | 12 | 9 | 15 | 21 | 26 | 714.257013 | 1 |
| 16x17+18x19 | 230 | 11 | 18 | 11 | 20 | 33 | 35 | 714.257019 | |
| Bit adapter: 10 mm x 1/4", 20mm long | | | | | | | | 715.1103 | |

DOUBLE-RING RATCHET WRENCH



Special ratchet for use in confined spaces

| Designation | Tip Type | Length (mm) | Art. No. | P. Qty. |
|--|---|-------------|------------------|---------|
| Double-ring ratchet spanner 1/4" - 10 mm |  | 200 | 714.23101 | 1 |
| Double-ring ratchet spanner 1/4" - 10 mm | | 110 | 714.23102 | |

PASS-THROUGH REVERSIBLE RATCHET



Art. No. 713.13001 P. Qty 1

- Round, compact head: 72 teeth, 5° angle of rotation
- One-hand operation with reverse lever for clockwise and anti-clockwise rotation
- Surface: chrome-plated, polished
- Plastic handle
- Extremely slim design
- Length: 205 mm

PASS-THROUGH RATCHET EXTENSION



Art. No. 713.13002 P. Qty 1

- Surface: Chrome-plated
- Length: 76 mm

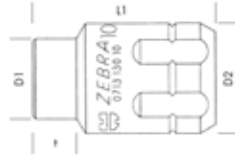
1/4" PASS-THROUGH RATCHET ADAPTER



For using standard universal sockets with 1/4" drive with through-hole ratchets.

| Designation | Length (mm) | Surface | Art. No. | P. Qty. |
|--------------|-------------|---------------|------------------|---------|
| Adapter 1/4" | 26 | Chrome-plated | 713.13003 | 1 |
| Adapter 3/8" | 30 | | 713.13004 | |

PASS-THROUGH RATCHET SOCKET



POWERDRIV®, metric, hexagon

- Surface: Chrome-plated, polished.

| | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty. |
|----|---------|------------------|---------|--------|------------------|---------|
| 10 | 32 | 14.7 | 19.5 | 7.0 | 713.13010 | 1 |
| 11 | | 15.4 | | | 713.13011 | |
| 12 | | 16.6 | | | 713.13012 | |
| 13 | | 17.7 | | 8.5 | 713.13013 | |
| 14 | | 18.9 | | | 713.13014 | |
| 15 | | 20.1 | | | 713.13015 | |
| 16 | | 21.2 | | 12.0 | 713.13016 | |
| 17 | | 22.4 | | | 713.13017 | |
| 18 | | 23.6 | | | 713.13018 | |
| 19 | 24.8 | 713.13019 | | | | |

DOUBLE-RING RATCHET SPANNER SET



Art. No. 714.23100 32 pcs.

Special tool assortment for use in tight spaces.



| Designation | Bit | Length (mm) | Art. No. | P. Qty. | |
|--|-----|-------------|-------------------|---------|--|
| Double-ring ratchet 1/4" and 10 mm drives | | 200 | 714.23101 | 1 | |
| Double-ring ratchet, 1/4" and 10 mm drives | | 110 | 714.23102 | | |
| Adapter 10 mm x 1/4" | | 22 | 715.1102 | | |
| 1/4" Drive bits: | | | | | |
| TX 15 | | 25 | 614.3115 | | |
| TX 20 | | | 614.3120 | | |
| TX 25 | | | 614.3125 | | |
| TX 27 | | | 614.3127 | | |
| Slot 5.5 mm | | 25 | 614.175653 | | |
| Slot 8.0 mm | | | 617.175656 | | |
| Allen head, size 4 mm | | 25 | 614.17694 | | |
| Allen head, size 5 mm | | | 614.17695 | | |
| Allen head, size 6 mm | | | 614.17696 | | |
| PH 1 | | 25 | 614.176274 | | |
| PH 2 | | | 614.176461 | | |
| PH 3 | | | 614.17648 | | |

| Designation | Bit | Length (mm) | Art. No. | P. Qty. | |
|-------------------------------|-----|-------------|-------------------|---------|--|
| 10 mm Drive bits: | | | | | |
| TX 30 | | 30 | 614.788830 | 1 | |
| TX 40 | | | 614.788840 | | |
| TX 45 | | | 614.788845 | | |
| XZN M 5 | | | 614.788405 | | |
| XZN M 6 | | 30 | 614.788406 | | |
| XNZ M 8 | | | 614.788408 | | |
| Allen head, size 7 mm | | 30 | 614.788307 | | |
| Allen head, size 8 mm | | | 614.788308 | | |
| 1/4" sockets, hexagon: | | | | | |
| Size 6 mm | | 22 | 713.111106 | | |
| Size 7 mm | | | 713.111107 | | |
| Size 8 mm | | | 713.111108 | | |
| Size 9 mm | | | 713.111109 | | |
| Size 10 mm | | | 713.111110 | | |
| Size 11 mm | | | 713.111111 | | |
| Size 12 mm | | | 713.111112 | | |
| Size 13 mm | | | 713.111113 | | |
| Size 14 mm | | | 713.111114 | | |



Can be used with bits and sockets

- Double-function special ratchet with 1/4" and 10 mm mount.



Special offset ratchet spanner with optimum working length of 110 mm or 200 mm.

- Especially suitable for tight working areas, e.g. door hinges, engine compartments and toothed belt covers.



Special low ratchet height

- In comparison to conventional 1/4" ratchets.



Fine-toothed ratchet enables screwing in and out in the smallest of spaces.

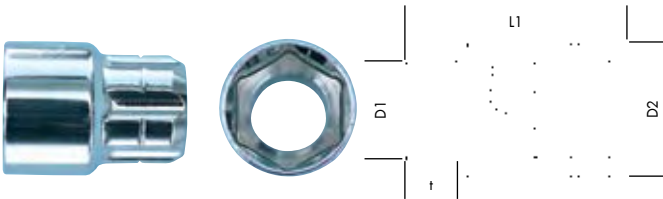
- Clockwise and counter-clockwise rotation can be switched with one hand.


GO-THROUGH METRIC SOCKET SET



Sockets

Bit: Hexagon, metric, powerdriv.
Model: chrome-plated, polished.



|  | L1 mm | t mm | D1 mm | D2 mm | Art. No. | P. Qty. |
|--|-------|------|-------|-------|------------------|---------|
| in mm | | | | | | |
| 10 | 32 | 7 | 14.7 | 19.5 | 713.13010 | 1 |
| 11 | | | 15.4 | | 713.13011 | |
| 12 | | | 16.6 | | 713.13012 | |
| 13 | | 8.5 | 17.7 | | 713.13013 | |
| 14 | | 9.5 | 18.9 | | 713.13014 | |
| 15 | | 11.5 | 20.1 | | 713.13015 | |
| 16 | | 12 | 21.2 | | 713.13016 | |
| 17 | | | 22.4 | | 713.13017 | |
| 18 | | | 23.6 | | 713.13018 | |
| 19 | | | 24.8 | | 713.13019 | |

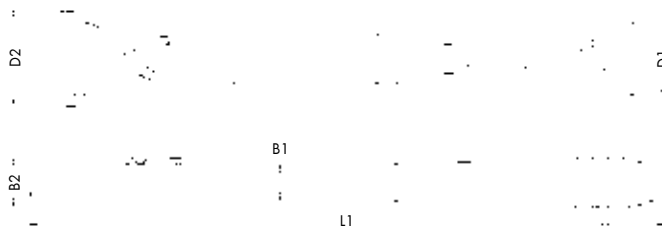
Art. No. 713.1300 14 pcs.

- Problem solver for narrow spaces, because of very low height
- With through-hole, ideal for long bolts and threaded rods
- With 2 adaptors (1/4" and 3/8") standard sockets can also be used
- Supplied in a metal box and a high-quality foam insert with clamping effect

| Designation | Length in mm | Art. No. | P. Qty. |
|----------------------|--------------|------------------------------|---------|
| Ratchet | 205 | 713.13001 | 1 |
| Extension | 76 | 713.13002 | |
| Adapter 1/4" | 26 | 713.13003 | |
| Adapter 3/8" | 30 | 713.13004 | |
| 10 sockets, 10-19 mm | 32 | 713.13010 - 713.13019 | |

Ratchet

Head: 72 teeth, 5° rotating angle, round, compact head, one-hand operation with reversing lever for clockwise and counter-clockwise operation.
Model: chrome-plated, polished, very slim design.



| L1 mm | B1 mm | B2 mm | D1 mm | D2 mm | Art. No. | P. Qty. |
|-------|-------|-------|-------|-------|------------------|---------|
| 205 | 7 | 11.5 | 24.7 | 32.5 | 713.13001 | 1 |



Low height of the through-ratchet as compared to the standard ratchet.



Thanks to the through-hole, long bolts and threaded rods can be processed.



Through-ratchet with adapter ejector enables an easy removal of the socket spanner.

RATCHET WITH SWITCH LEVER



1 Easy direction change for right and left direction.



2 Secure locking with quick release to lock.



3 Secure locking with quick release to unlock.



4 Low lying and protected reversing lever.

Rugged design with convenient quick release function

Coarse toothing with 48 teeth – 7.5° rotating angle!

Features:

- Fast, simple reversing of clockwise and counterclockwise rotation with lever.
- Low-lying, protected reversing lever for fast left/right switching with one hand.
- Offset ratchet body allows more clearance for gripping.
- Ergonomic design of the handle.
- Quick release for fast socket change and ball locking device.

| Description | Size | Art. No. | P. Qty. |
|---------------------------|------|-----------|---------|
| Ratchet with switch lever | 1/4" | 712.01401 | 1 |
| | 3/8" | 712.03801 | |
| | 1/2" | 712.01201 | |

MAINTENANCE SETS



Art. No. 712.001 9 pcs.

For 1/4" ratchet with rotary disc

Art. No. 712.002 7 pcs.

For 1/2" ratchet with rotary disc

Art. No. 712.00014 12 pcs.

For 1/4" ratchet with lever

Art. No. 712.00012 12 pcs.

For 1/2" ratchet with lever

1/4" BALL-HEAD RATCHET WITH T-HANDLE



Multi-functional spherical ratchet with adjustable handle

Features:

- Drive: 6.3 – 1/4"
- Standard: DIN 3122, ISO 3315
- Head: 72 teeth, angle of rotation: 5°, joint can be rotated 270°
- Handle: Two-component handle, straight or adjustable 90° as T-handle

| Length (mm) | Ratchet head height (mm) | Ratchet diameter (mm) | Art. No. | P. Qty. |
|-------------|--------------------------|-----------------------|-----------|---------|
| 145 | 26.5 | 20 | 712.01405 | 1 |

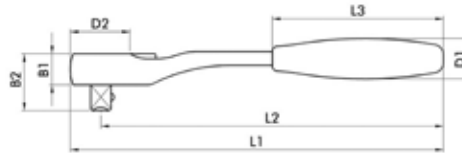


3 in 1!

Can be used like a conventional ratchet, as a screwdriver or a T-handle!



DUST-PROTECTED LEVER REVERSIBLE RATCHET



Dust-protected ratchet for a long service life even in the toughest working conditions

Features:

- Drive: 1/2, 3/8 & 1/4 inch drives
- Standard: DIN 3122, ISO 3315
- Reversing lever for clockwise and anti-clockwise rotation
- Geometry: Ratchet body with offset center for easy access in hard to reach areas



Dust-protected ratchet head

- Double sealing for better protection against dirt
- Square drive: rugged and durable
- Maintenance-free - permanent lubrication of the mechanism is guaranteed.

Optimized reversing mechanism

Quick and simple lever switch

Dust-protected ratchet head

When tightening bolts, pressure can be applied to the ratchet head without accidentally reversing the ratchet.

| Art. No. | 712.01203 | 712.03803 | 712.01403 |
|-----------------------------|--|--|--|
| P. Qty. | 1 | 1 | 1 |
| Drive | 1/2 inch | 3/8 inch | 1/4 inch |
| Length (L1) | 253 mm | 177 mm | 136 mm |
| Length 2 (L2) | 240 mm | 160 mm | 125 mm |
| Length 3 (L3) | 115 mm | 79 mm | 61 mm |
| Width (B1) | 19 mm | 16 mm | 13 mm |
| Width 2 (B2) | 36 mm | 29 mm | 22 mm |
| Diameter (D1) | 26 mm | 21 mm | 16 mm |
| Diameter 2 (D2) | 38 mm | 29 mm | 21 mm |
| Material | Chrome-vanadium steel | Chrome-vanadium steel | Chrome-vanadium steel |
| Material of the grip handle | 2-component plastic | 2-component plastic | 2-component plastic |
| Version | With 72 teeth - 5 degree angle of rotation | With 72 teeth - 5 degree angle of rotation | With 72 teeth - 5 degree angle of rotation |
| Surface | Chromed high-gloss satin finish | Chromed high-gloss satin finish | Chromed high-gloss satin finish |
| IP protection class | IP 5X | IP 5X | IP 5X |

RATCHET WITH ROTARY DISC REVERSE



Rotary disc reverse

Fine tooth rotary disc with 72 teeth; 5° angle of rotation

- Compact, narrow head
- Simple changeover from clockwise to anti-clockwise rotation
- Chamfered square – easier removal of socket wrench inserts
- Offset ratchet body for more hand freedom

| Description | Tip Size | Length (mm) | Art. No. | P. Qty. |
|----------------------------------|----------|-------------|----------|---------|
| Ratchet with rotary disc reverse | 1/4" | 138 | 712.0140 | 1 |
| | 3/8" | 175 | 712.0380 | |
| | 1/2" | 250 | 712.0120 | |

RATCHET FOR 10MM BITS



Features:

- Head: 72 teeth
- 5° angle of rotation
- Round, compact head
- Body: chrome-plated
- Non Slip 2-component handle

| Ratchet Diameter | Length | Ratchet Head Height | Handle Diameter | Art. No. | P. Qty |
|------------------|--------|---------------------|-----------------|-----------|--------|
| 20 mm | 175 mm | 19 mm | 26 mm | 714.12100 | 1 |

STUBBY ROTARY BIT RATCHET



Art. No. 712.0145 - P. Qty. 1

Compact mini ratchet for use in hard to reach areas

Features:

- Extremely compact for use in tight applications
- Mount: For 1/4" hexagon drive in accordance with DIN 3126-C 6.3 and E 6.3.
- Head: Extremely compact ratchet head, fine-toothed, 72 teeth, 5° reversing angle
- Chrome-plated with 2-component handle, extremely slim design, angled down 10°.
- Rugged design, max. Torque of up to 40 Nm.
- Applications: motor vehicles, commercial vehicles, motorcycles, bicycles, mechanical engineering, fine machinery and the furniture industry.
- Use with 1/4 inch bit holder extensions
- Length - 100mm

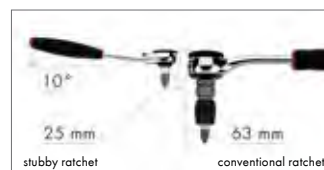
*Also available in 965.1123 assortment



Knurled rotary disk
easier to use rotary switch



Reversing lever
simple reversing clockwise and counter clockwise switch

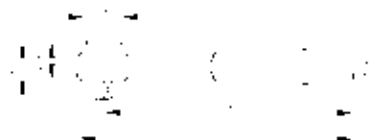


Height of bit ratchet
low overall height of bit ratchet compared to conventional ratchets.



A broad range of applications
the right tool for any application.

STUBBY GEARLESS RATCHETS



- Short handle with reversible square drive.
- Head: overrun, turning angle less than 3°.
- For tight spaces, e.g. engine compartments, motorcycles, tool making, fine mechanics, kitchen construction, adjustment work.
- Chrome-molybdenum steel.

| Drive | L1 mm | L2 mm | B1 mm | B2 mm | D1 mm | D2 mm | Fmax Nm | Art. No. | P. Qty. |
|-------|-------|-------|-------|-------|-------|-------|---------|------------|---------|
| 1/4" | 77 | 93 | 9 | 16 | 21 | 14 | 43 | 713.110111 | 1 |
| 3/8" | 106 | 67 | 11 | 23 | 27 | 16 | 162 | 713.120111 | |

JOINTED-HEAD RATCHET, TELESCOPIC

Features:

- Extendable to max. length using locking sleeve with locking device
- Optimum power transmission
- Quick ejection with safety lock
- Flexible, rotating ratchet head with locking device
- 72 teeth with a rotating angle of 5°
- Standard: DIN 3122, ISO 3315

| Technical Information: | Art. No. 715.1292 | Art. No. 715.1392 |
|---------------------------------|---------------------------------|---------------------------------|
| Drive Size | 1/2" | 3/8" |
| Material | Chrome-vanadium steel | Chrome-vanadium steel |
| Surface | Chromed high-gloss satin finish | Chromed high-gloss satin finish |
| Material of the grip handle | 2-component plastic | 2-component plastic |
| Min./Max. length | 294-430 mm | 258-373 mm |
| Handle length | 110 mm | 110 mm |
| Ratchet head height | 15.5 mm | 13 mm |
| Ratchet head height with square | 34 mm | 26.5 mm |
| Sleeve outside diameter | 24 mm | 20.6 mm |
| Handle diameter | 31 mm | 31 mm |
| Ratchet diameter | 40 mm | 37 mm |



Maintenance Set:
715.13920 • 9 pcs.



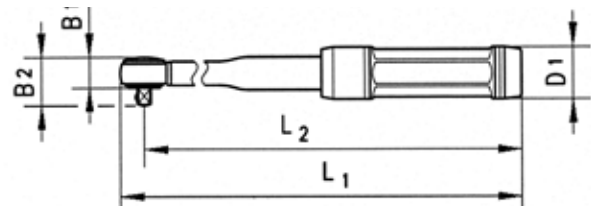
TORQUE WRENCHES

Torque wrenches are precision tools which must be checked at regular intervals with suitable measuring equipment and adjusted if necessary. We recommend an annual calibration.

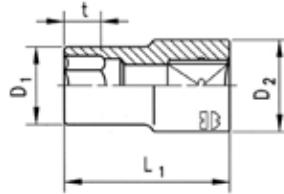
- Accuracy of $\pm 3\%$ to the set value, in accordance with DIN EN ISO 6789:2003.
- Easy and precise adjustment by turning the handle.
- Square coupler drive.
- Acoustic, tangible perception of the torque triggering prevents over-tightening of bolts.
- Following use, relax the spring and set to the lowest value.
- With calibration certificate.
- Delivery in a plastic box.



| Drive | Measuring Range | | L ₁ | L ₂ | B ₁ | B ₂ | D ₁ | Art. No. | P. Qty. |
|-------|-----------------|---------|----------------|----------------|----------------|----------------|----------------|-----------|---------|
| | NM | lbf.ft. | (mm) | (mm) | (mm) | (mm) | (mm) | | |
| 3/8" | 20-100 | 15-80 | 350 | 330 | 22 | 33 | 37 | 714. 7121 | 1 |
| | | | | | | 37 | | 714. 7122 | |
| 1/2" | 40-200 | 30-150 | 440 | 420 | 26 | 42 | 45 | 714. 7123 | |
| | | | | | | 45 | | 714. 7124 | |








1/4" MULTI-SOCKET, METRIC/IMPERIAL

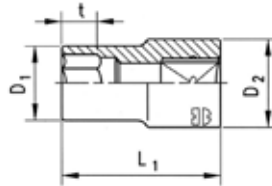


Bi-hexagon, Multi-profile for the five most common screw head drives

- Extremely high-quality multi-socket wrenches guarantee long service lives
- Surface: Chrome-plated, polished
- Drive: 1/4" square socket
- Tip: bi-hexagon, multi-profile






| Multi-profile | Possible Uses | | | | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty. |
|---|---|---|---|---|---------|---------|-----------|------------|-----------|---------|
| | Hexagon/bi-hexagon | Hexagon | TX Head | Square | | | | | | |
|  |  |  |  |  | | | | | | |
| (mm) | (mm) | (in.) | TX | (mm) | | | | | | |
| 4 | Size 4 | 5/32" | E 5 | - | 22 | 6.8 | 11.9 | 5 | 713.11304 | 1 |
| 5 | Size 5 | - | - | Size 4 | | 8.1 | | | 713.11305 | |
| 5.5 | Size 5.5 | 7/32" | - | Size 4.5 | | 8.7 | | 713.113055 | | |
| 6 | Size 6 | - | E 8 | Size 5 | | 9.3 | | 713.11306 | | |
| 7 | Size 7 | 9/32" | - | - | | 10.8 | | 713.11307 | | |
| 8 | Size 8 | 5/16" | E 10 | - | | 11.9 | 713.11308 | | | |
| 9 | Size 9 | 11/32" | - | - | | 13.4 | 13.4 | 713.11309 | | |
| 10 | Size 10 | 3/8" | E 12 | Size 8 | | 14.5 | 14.5 | 713.11310 | | |
| 11 | Size 11 | 7/16" | E 14 | Size 9 | | 15.9 | 15.9 | 713.11311 | | |
| 12 | Size 12 | 15/32" | E 16 | Size 10 | | 16.9 | 16.9 | 713.11312 | | |
| 13 | Size 13 | 1/2" | - | - | | 18.0 | 18.0 | 713.11313 | | |
| 14 | Size 14 | 9/16" | E 18 | - | | 19.6 | 19.6 | 713.11314 | | |

3/8" MULTI-SOCKET, METRIC/IMPERIAL

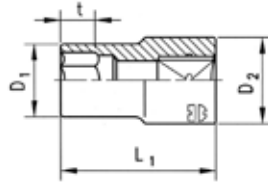


Bi-hexagon, Multi-profile for the five most common screw head drives

- Surface: chromium-plated, polished
- Drive: 3/8" square socket
- Tip: bi-hexagon, multi-profile

| Multi-profile | Possible Uses | | | | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty. |
|---|---|---|---|---|---------|---------|-----------|-----------|------------|---------|
| | 6-sd./12-sd. | 6-sided | Outer TX | 4-sided | | | | | | |
|  |  |  |  |  | | | | | | |
| (mm) | (mm) | (in.) | TX | (mm) | | | | | | |
| 6 | 6 mm | - | E8 | 5 mm | 25.5 | 9.3 | 17 | 7 | 713.12306 | 1 |
| 6.3 | 6.3 mm | 1/4" | - | - | | 9.9 | | | 713.123063 | |
| 7 | 7 mm | 9/32" | - | - | | 10.9 | | 713.12307 | | |
| 8 | 8 mm | 5/16" | E10 | - | | 11.8 | | 713.12308 | | |
| 9 | 9 mm | 11/32" | - | - | | 13.4 | | 713.12309 | | |
| 10 | 10 mm | 3/8" | E12 | 8 mm | | 14.6 | | 713.12310 | | |
| 11 | 11 mm | 7/16" | E14 | 9 mm | | 15.9 | | 713.12311 | | |
| 12 | 12 mm | 15/32" | E16 | 10 mm | | 17 | | 713.12312 | | |
| 13 | 13 mm | 1/2" | - | - | | 18.4 | | 713.12313 | | |
| 14 | 14 mm | 9/16" | E18 | - | | 19.6 | | 18 | 713.12314 | |
| 15 | 15 mm | 19/32" | - | 12 mm | | 20.9 | 19 | 713.12315 | | |
| 16 | 16 mm | 5/8" | E20 | 13 mm | | 22 | 20 | 713.12316 | | |
| 17 | 17 mm | - | - | 14 mm | | 23.4 | 21 | 713.12317 | | |
| 18 | 18 mm | - | E22 | - | | 24.5 | 21.5 | 713.12318 | | |
| 19 | 19 mm | 3/4" | E24 | - | 25.6 | 22.5 | 713.12319 | | | |
| 20 | 20 mm | 25/32" | - | 16 mm | 26.8 | 23.5 | 713.12320 | | | |
| 21 | 21 mm | 13/16" | E26 | 17 mm | 27.9 | 24.5 | 713.12321 | | | |
| 22 | 22 mm | 7/8" | E28 | 18 mm | 29.6 | 26 | 713.12322 | | | |

1/2" MULTI-SOCKET, METRIC/IMPERIAL



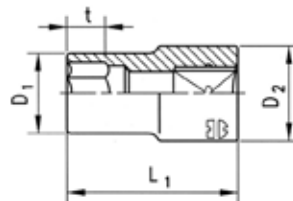
Bi-hexagon, Multi-profile for the five most common screw head drives

- Hexagon metric, square metric, bi-hexagon metric, hexagon imperial, outer TX
- One set covers all applications

- Extremely high-quality multi-socket wrenches guarantee long service lives
- Design: Chrome-plated, polished
- Drive: 1/2" square socket
- Tip: Bi-hexagon, multi-profile
- Geometry: Short

| Multi-profile | Possible Uses | | | | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty. |
|---------------|---------------|---------|----------|-------|---------|---------|------------------|------------------|------------------|---------|
| | 6-pt./12-pt. | 6-pt. | Outer TX | 4-pt. | | | | | | |
| | | | | | | | | | | |
| (mm) | (mm) | (in.) | TX | (mm) | | | | | | |
| 10 | 10 | 3/8" | E 12 | 8 | 36 | 15.5 | 23.0 | 9 | 712.13410 | 1 |
| 11 | 11 | 7/16" | E 14 | 9 | | 16.7 | | 10 | 712.13411 | |
| 12 | 12 | 15/32" | E 16 | 10 | | 18.0 | | 11 | 712.13412 | |
| 13 | 13 | 1/2" | - | - | | 19.2 | | 13 | 712.13413 | |
| 14 | 14 | 9/16" | E 18 | - | | 20.5 | | 14 | 712.13414 | |
| 15 | 15 | 19/32" | - | 12 | | 21.7 | | 13 | 712.13415 | |
| 16 | 16 | 5/8" | E 20 | 13 | | 23.0 | 14 | 712.13416 | | |
| 17 | 17 | - | - | 14 | | 24.2 | 23.2 | 712.13417 | | |
| 18 | 18 | - | E 22 | - | | 25.5 | 23.5 | 712.13418 | | |
| 19 | 19 | 3/4" | E 24 | - | | 26.7 | 24.7 | 712.13419 | | |
| 20 | 20 | 25/32" | - | 16 | | 28.0 | 25.5 | 712.13420 | | |
| 21 | 21 | 13/16" | E 26 | 17 | | 29.2 | 26.0 | 712.13421 | | |
| 22 | 22 | 7/8" | E 28 | 18 | | 30.5 | 26.5 | 712.13422 | | |
| 24 | 24 | 15/16" | E 30 | 19 | | 33.0 | 29.0 | 712.13424 | | |
| 26 | 26 | - | E 32 | 21 | 35.5 | 31.5 | 712.13426 | | | |
| 27 | 27 | 1 1/16" | E 34 | 22 | 36.7 | 32.2 | 712.13427 | | | |
| 28 | 28 | 1 1/8" | E 36 | 23 | 38.0 | 33.5 | 712.13428 | | | |
| 30 | 30 | 1 3/16" | E 38 | 24 | 40.5 | 36.0 | 712.13430 | | | |
| 32 | 32 | 1 1/4" | E 40 | 26 | 43.0 | 38.1 | 712.13432 | | | |

1/4" SOCKET WRENCH INSERT, METRIC



Metric, short

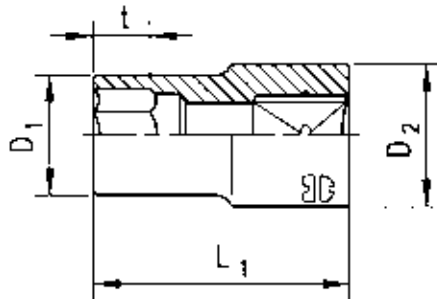
- Surface: Chrome-plated, polished
- Drive: 1/4" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**

| (in.) | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty. |
|-------|---------|---------|---------|--------|-------------------|---------|
| 4 | 22 | 6.8 | 11.9 | 5 | 713.111104 | 1 |
| 5 | | 8.1 | | 5.5 | 713.111105 | |
| 5.5 | | 8.7 | | 6 | 713.111155 | |
| 6 | | 9.3 | | 7 | 713.111106 | |
| 6.3 | | 9.8 | | 10 | 713.111163 | |
| 7 | | 10.8 | | 11 | 713.111107 | |
| 8 | | 11.9 | 13.4 | 7 | 713.111108 | |
| 9 | | 13.4 | 14.5 | 10 | 713.111109 | |
| 10 | | 14.5 | 14.5 | 10 | 713.111110 | |
| 11 | | 15.9 | 15.9 | 10 | 713.111111 | |
| 12 | | 16.9 | 16.9 | 11 | 713.111112 | |
| 13 | | 18 | 18 | 11 | 713.111113 | |
| 14 | | 19.6 | 19.6 | 11 | 713.111114 | |

1/4" SOCKET WRENCH INSERTS, METRIC, LONG



POWERDRIV



1/4" Socket Wrench Inserts, metric.

- Version: Chrome-plated, polished
- Drive: 1/4", ball catch groove
- Drive: Hexagon, metric
- Geometry: Long
- Application: Screw connections to stud bolts, threaded rods etc.

| ⬤ (mm) | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty. |
|--------|---------|---------|---------|--------|------------|---------|
| 4 | 50 | 4.8 | 11.9 | 7 | 713.112104 | 1 |
| 5 | | 8.1 | | 9 | 713.112105 | |
| 5.5 | | 8.7 | | 9 | 713.112155 | |
| 6 | | 9.3 | | 13 | 713.112106 | |
| 7 | | 10.8 | | 16 | 713.112107 | |
| 8 | | 11.9 | | 16 | 713.112108 | |
| 9 | | 13.4 | 13.4 | 16 | 713.112109 | |
| 10 | | 14.5 | 14.5 | 21 | 713.112110 | |
| 11 | | 15.9 | 15.9 | | 713.112111 | |
| 12 | | 16.9 | 16.9 | | 713.112112 | |
| 13 | | 18 | 18 | | 713.112113 | |
| 14 | | 19.6 | 19.6 | | 713.112114 | |

Accessory: Socket Holder 713.11101

1/4" SOCKET WRENCH ASSORTMENT, LONG



POWERDRIV



Art. No. 965.905052 - P. Qty. 1

Foam insert 1/4 inch socket wrench assortment.

12 Pieces:

4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (mm)

- Length: 335mm
- Width: 100mm
- Height: 40mm



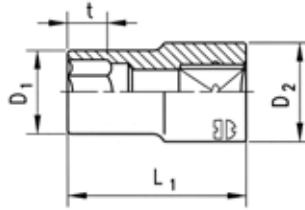
EMPTY FOAM INSERT

for 12pc 1/4 inch socket wrench assortment
 AVAILABLE BY SPECIAL ORDER ONLY.
 Art. No.955.905052

3/8" HEXAGON SOCKETS, METRIC



POWERDRIV



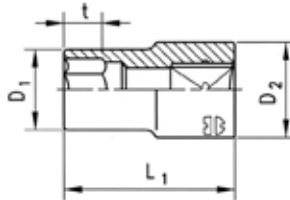
Features:

- Standard: DIN 3124, ISO 2725
- Finish: chrome-plated, polished/matte
- Input drive: 3/8", ball groove
- **POWERDRIV® Patent**
- Output drive: hexagon, metric
- Type: Short

| Hex (mm) | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty. |
|----------|---------|---------|------------|------------|------------|------------|
| 6 | 27 | 9.4 | 17.7 | 7 | 713.121106 | 1 |
| 7 | | 11 | | | 713.121107 | |
| 8 | | 12.2 | | | 713.121108 | |
| 9 | | 13.5 | | 8 | 713.121109 | |
| 10 | | 14.7 | | | 713.121110 | |
| 11 | | 16 | | | 713.121111 | |
| 12 | 30 | 17.2 | 18 | 11 | 713.121112 | |
| 13 | | 18.5 | | | 713.121113 | |
| 14 | | 19.7 | | 713.121114 | | |
| 15 | | 21 | | 13 | 713.121115 | |
| 16 | | 22.2 | | | 713.121116 | |
| 17 | 23.5 | 21 | 713.121117 | | | |
| 18 | 33 | 24.7 | 21.5 | 14 | 713.121118 | |
| 19 | | 26 | | | 713.121119 | |
| 20 | | 27.2 | | | 713.121120 | |
| 21 | | 28.5 | | | 713.121121 | |
| 22 | | 29.7 | | | 26 | 713.121122 |

Accessory: Socket Holder 713.12101

3/8" SOCKET WRENCH INSERT, IMPERIAL

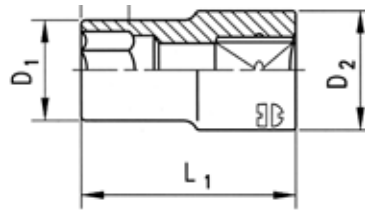


Inch, hexagon, short

- Design: Chrome-plated, polished/matte
- Drive: 3/8" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**

| Hex (in.) | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty. |
|-----------|---------|---------|---------|--------|------------|---------|
| 1/4" | 25.5 | 10 | 17 | 7 | 713.121201 | 1 |
| 9/32" | | 10.9 | | | 713.121202 | |
| 5/16" | | 11.8 | | | 713.121203 | |
| 11/32" | | 13 | | 8 | 713.121204 | |
| 3/8" | | 14.3 | | | 713.121205 | |
| 7/16" | | 16 | | | 713.121206 | |
| 1/2" | 27 | 18.4 | 18 | 9 | 713.121207 | |
| 9/16" | | 20 | | | 713.121208 | |
| 19/32" | | 20.9 | | 19 | 713.121209 | |
| 5/8" | | 22 | | | 713.121210 | |
| 11/16" | | 23.9 | | 21 | 713.121211 | |
| 3/4" | 29 | 25.6 | 22.5 | 15 | 713.121212 | |
| 25/32" | | 27.1 | | | 713.121213 | |
| 13/16" | | 27.9 | 24.5 | | 713.121214 | |
| 7/8" | | 30 | | | 713.121215 | |

3/8" SOCKETS FOR OUTER TX SCREWS



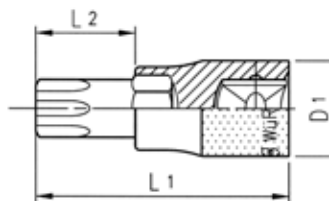
- Finish: chrome-plated, polished/matte
- Input drive: 3/8", ball groove
- Output drive: outer TX
- Type: short

| | (mm) | L1 (mm) | D1 (mm) | D2 (mm) | Art. No. | P. Qty |
|---|------|---------|---------|---------|-----------|--------|
| 5 | 4.75 | 26 | 7.0 | 17 | 715.12205 | 1 |
| 6 | 5.74 | 26 | 7.7 | 17 | 715.12206 | |
| 7 | 6.22 | 26 | 8.3 | 17 | 715.12207 | |

| | (mm) | L1 (mm) | D1 (mm) | D2 (mm) | Art. No. | P. Qty |
|----|------|---------|---------|---------|-----------|--------|
| 8 | 7.52 | 26 | 10.2 | 17 | 715.12208 | |
| 10 | 9.42 | 26 | 12.3 | 17 | 715.12210 | 1 |

Accessory: Socket Holder 713.12101

3/8" SOCKET WRENCH INSERTS, INNER TX



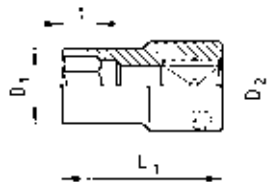
- Finish: chrome-plated, polished/matte
- Input drive: 3/8", ball groove
- Output drive: inner TX
- Type: short

| | (mm) | L1 (mm) | L1 (mm) | D1 (mm) | Art. No. | P. Qty |
|----|------|---------|---------|---------|-----------|--------|
| 15 | 3.26 | 50.5 | 20.5 | 19 | 715.12315 | 1 |
| 20 | 3.84 | 50.5 | 20.5 | 19 | 715.12320 | |
| 25 | 4.40 | 50.5 | 20.5 | 19 | 715.12325 | |
| 27 | 4.96 | 50.5 | 20.5 | 19 | 715.12327 | |

| | (mm) | L1 (mm) | L1 (mm) | D1 (mm) | Art. No. | P. Qty |
|----|------|---------|---------|---------|-----------|--------|
| 30 | 5.49 | 50.5 | 20.5 | 19 | 715.12330 | 1 |
| 40 | 6.66 | 50.5 | 20.5 | 19 | 715.12340 | |
| 45 | 7.77 | 50.5 | 20.5 | 19 | 715.12345 | |
| 50 | 8.79 | 50.5 | 20.5 | 19 | 715.12350 | |

Accessory: Socket Holder 713.12101

3/8" SOCKET WRENCH INSERTS, METRIC, LONG



Features:

- Surface: Chrome-plated, polished/matt
- Drive: 3/8" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV® Patent**

| | (mm) | L1 (mm) | D1 (mm) | D2 (mm) | † (mm) | Art. No. | P. Qty |
|----|------|---------|---------|---------|--------|------------|--------|
| 7 | 64 | | 10.9 | 16.7 | 13 | 713.122107 | 1 |
| 8 | | | 11.8 | | 15 | 713.122108 | |
| 9 | | | 13.4 | | 16 | 713.122109 | |
| 10 | | | 14.6 | | 25.5 | 713.122110 | |
| 11 | | | 15.9 | | | 713.122111 | |
| 12 | | | 16.7 | | | 713.122112 | |
| 13 | | | 18.2 | | | 713.122113 | |

| | (mm) | L1 (mm) | D1 (mm) | D2 (mm) | † (mm) | Art. No. | P. Qty |
|----|------|---------|---------|---------|--------|------------|--------|
| 14 | 64 | | 19.5 | 19.5 | 25.5 | 713.122114 | 1 |
| 15 | | | 20.7 | 20.7 | | 713.122115 | |
| 16 | | | 21.7 | 21.7 | | 713.122116 | |
| 17 | | | 23.3 | 23.3 | | 713.122117 | |
| 18 | | | 23.8 | 23.8 | | 713.122118 | |
| 19 | | | 25.4 | 25.4 | | 713.122119 | |

3/8" SOCKET WRENCH ASSORTMENT, LONG



POWERDRIV



Art. No. 965.900909 - P. Qty. 1

Foam insert 3/8 inch socket wrench assortment.

12 Pieces:

8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 (mm)

- Length: 335mm
- Width: 100mm
- Height: 40mm



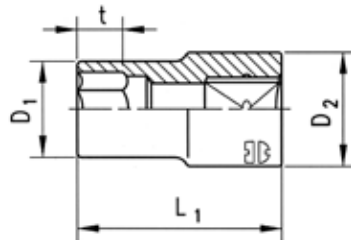
EMPTY FOAM INSERT

for 12pc 3/8 inch socket wrench assortment

AVAILABLE BY SPECIAL ORDER ONLY.

Art. No. 955.900909

3/8" MULTI-PROFILE SOCKET, 13 PIECE SET



Art. No. 713.1240 - P. Qty. 1

For intact, rounded and damaged bolts and nuts.

Can be universally used in assembly, maintenance and repairs.

Clamping Strip Included

Drive
3/8" square socket

Delivery form
Chrome-plated, polished

Geometry
Short

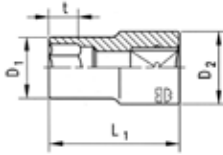
Output side
Hexagonal, multi-profile

| (mm) | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty. |
|---|---------|---------|---------|--------|------------|---------|
| 8 | 28 | 13.5 | 17.5 | 10 | 713.12408 | 1 |
| 9 | 28 | 15 | 17.5 | 10 | 713.12409 | |
| 10 | 28 | 16 | 17.5 | 10 | 713.12410 | |
| 11 | 28 | 18.3 | 20.5 | 10 | 713.12411 | |
| 12 | 28 | 19.3 | 21.5 | 10 | 713.12412 | |
| 13 | 28 | 20.5 | 21.5 | 10 | 713.12413 | |
| 14 | 28 | 20.5 | 21.5 | 15 | 713.12414 | |
| 15 | 30 | 23.5 | 22 | 15 | 713.12415 | |
| 16 | 30 | 23.5 | 22 | 15 | 713.12416 | |
| 17 | 30 | 26.5 | 24.2 | 15 | 713.12417 | |
| 18 | 30 | 26.6 | 24.2 | 15 | 713.12418 | |
| 19 | 30 | 27.5 | 25 | 15 | 713.12419 | |
| +1/2" on 3/8" adapter, total length 36 mm | | | | | 712.138401 | |

Special Order



1/2" SOCKET WRENCH INSERT, METRIC

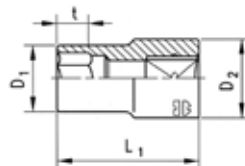


Metric, hexagon, short

- Standard: DIN 3124, ISO 2725
- Surface: Chrome-plated, ground/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon socket
- **POWERDRIV®**

| (mm) | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty | |
|------|---------|---------|---------|--------|------------|------------|------------|
| 8 | 36 | 13 | 23 | 8 | 712.131108 | 1 | |
| 9 | | 14.2 | | 9 | 9 | | 712.131109 |
| 10 | | 15.5 | | | 10 | | 712.131110 |
| 11 | | 16.7 | | 11 | 11 | | 712.131111 |
| 12 | | 18 | | | 12 | | 712.131112 |
| 13 | | 19.2 | | 13 | 13 | | 712.131113 |
| 14 | | 20.5 | 14 | | 712.131114 | | |
| 15 | | 21.7 | 22 | 13 | 15 | | 712.131115 |
| 16 | | 23 | | | 16 | | 712.131116 |
| 17 | | 24.2 | 23.2 | 14 | 17 | | 712.131117 |
| 18 | | 25.5 | | | 18 | | 712.131118 |
| 19 | | 26.7 | 24.7 | 14 | 19 | | 712.131119 |
| 20 | | 28 | | | 20 | | 712.131120 |
| 21 | | 38 | 29.2 | 26 | 16 | | 21 |
| 22 | 30.5 | | 22 | | | 712.131122 | |
| 23 | 31.7 | | 27.7 | 18 | 23 | 712.131123 | |
| 24 | 33 | | | | 24 | 712.131124 | |
| 25 | 34 | | 30 | 18 | 25 | 712.131125 | |
| 26 | 35.5 | | | | 26 | 712.131126 | |
| 27 | 36.7 | | 32.2 | 20 | 27 | 712.131127 | |
| 28 | 44 | 38 | 33.5 | | 28 | 712.131128 | |
| 30 | | 40.5 | | 36 | 30 | 712.131130 | |
| 32 | | 43 | 38.1 | | 32 | 712.131132 | |
| 34 | | 45.5 | | 40 | 34 | 712.131134 | |
| 36 | 50 | 48 | 42 | 28.5 | 712.131136 | | |

1/2" SOCKET WRENCH INSERT, IMPERIAL

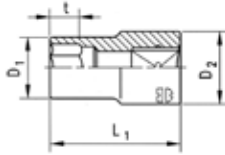


Inch, short

- Surface: Chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**

| (in.) | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty |
|---------|---------|---------|---------|------------|------------|------------|
| 3/8" | 38 | 16.1 | 21.9 | 12.0 | 712.131201 | 1 |
| 7/16" | | 17.9 | | | 13.0 | |
| 1/2" | | 19.1 | | 19.0 | | |
| 9/16" | | 20.6 | | | 24.7 | |
| 19/32" | | 21.0 | | 25.5 | | |
| 5/8" | | 22.9 | | | 19.0 | |
| 11/16" | | 24.6 | 22.5 | 712.131207 | | |
| 3/4" | | 26.5 | | 24.5 | 712.131208 | |
| 25/32" | | 27.9 | 25.5 | | 712.131209 | |
| 13/16" | | 28.5 | | 22.5 | 712.131210 | |
| 7/8" | 41 | 29.9 | 26.5 | | 712.131211 | |
| 15/16" | | 32.0 | | 29.0 | 712.131212 | |
| 1" | | 34.0 | 30.0 | | 712.131213 | |
| 1 1/16" | 44 | 36.0 | | 32.2 | 24.5 | 712.131214 |
| 1 1/8" | | 37.7 | 33.5 | | | 712.131215 |
| 1 3/16" | | 40.0 | | 36.0 | 712.131216 | |
| 1 1/4" | | 42.0 | 38.1 | | 25.5 | 712.131217 |

1/2" SOCKET WRENCH INSERT, METRIC

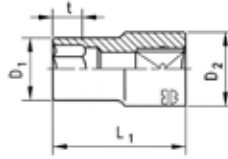


Metric, bi-hexagon, short

- Standard: DIN 3124, ISO 2725
- Surface: Chrome-plated, ground/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For bi-hexagon
- **POWERDRIV®**

| (mm) | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty | | |
|------|---------|---------|---------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 8 | 36 | 12.9 | 21.9 | 7 | 712.133108 | 1 | | |
| 9 | | 14 | | 8 | 712.133109 | | | |
| 10 | | 15.4 | | 10 | 712.133110 | | | |
| 11 | | 16.6 | | | | | | |
| 12 | | 17.9 | | | | | | |
| 13 | | 19.1 | | | | | | |
| 14 | | 20.4 | | 11 | 712.133111 | | | |
| 15 | | 21 | | | | | | |
| 16 | | 22.5 | | | | | | |
| 17 | | 24 | | | | | 712.133112 | |
| 18 | | 25.4 | | 23.2 | 712.133113 | | | |
| 19 | | 26.5 | | 23.5 | 712.133114 | | | |
| 20 | | 27.9 | | 24.7 | 712.133115 | | | |
| 21 | | 38 | | 28.5 | 25.5 | | 16 | 712.133116 |
| 22 | | | | 29.9 | 26 | | 712.133117 | |
| 23 | | | | 31.2 | 26.5 | | 19 | 712.133118 |
| 24 | 32 | | 27.7 | 712.133119 | | | | |
| 26 | 35 | | 29 | 712.133120 | | | | |
| 27 | 36 | | 31.5 | 712.133121 | | | | |
| 28 | 44 | | 37.7 | 32.2 | 24 | 712.133122 | | |
| 30 | | | 40 | 33.5 | | 712.133123 | | |
| 32 | | 42 | 36 | 712.133124 | | | | |
| 34 | | 45.5 | 38.1 | 712.133126 | | | | |
| 36 | 50 | 48 | 40 | 25 | 712.133127 | | | |
| | | | 42 | 28.5 | 712.133130 | | | |
| | | | | | 712.133132 | | | |
| | | | | | 712.133134 | | | |
| | | | | | 712.133136 | | | |

1/2" SOCKET WRENCH INSERT, METRIC



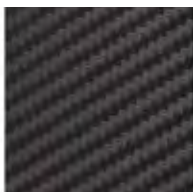
Metric, hexagon, long

- Surface: Chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**

| (mm) | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty |
|------|---------|---------|---------|-------------------|-------------------|--------|
| 10 | 77 | 15.4 | 21.8 | 25.0 | 712.132310 | 1 |
| 11 | | 16.6 | | | | |
| 12 | | 17.9 | | | | |
| 13 | | 19.1 | | | | |
| 14 | | 20.4 | | | | |
| 15 | | 21.6 | 21.6 | | | |
| 16 | | 22.6 | 22.6 | | | |
| 17 | | 24.1 | 24.1 | | | |
| 18 | | 25.4 | 25.4 | | | |
| 19 | 26.5 | 26.5 | 35.5 | 712.132319 | | |

| (mm) | L1 (mm) | D1 (mm) | D2 (mm) | t (mm) | Art. No. | P. Qty |
|------|---------|---------|---------|--------|-------------------|--------|
| 20 | 77 | 27.8 | 27.8 | 35.5 | 712.132320 | 1 |
| 21 | | 28.2 | 28.2 | | | |
| 22 | | 29.7 | 29.7 | | | |
| 23 | | 31.2 | 27.0 | | | |
| 24 | | 31.7 | | | | |
| 26 | | 35.4 | 33.0 | | | |
| 27 | | 35.7 | | | | |
| 28 | | 37.6 | | | | |
| 30 | | 39.8 | | | | |
| 32 | | 41.9 | | | 34.0 | |

1/2" SOCKET WRENCH ASSORTMENT, LONG



Art. No. 965.905210 - P. Qty. 1

Carbon look foam insert.

16 Pieces:

10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 (mm)

- Length: 340mm
- Width: 185mm
- Height: 40mm



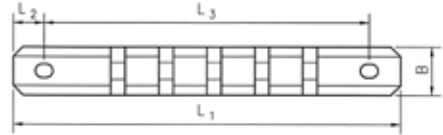
EMPTY FOAM INSERT

for 16pc 1/2 inch socket wrench assortment

AVAILABLE BY SPECIAL ORDER ONLY.

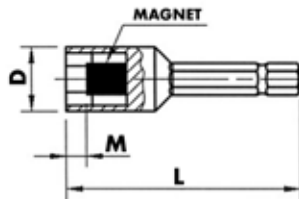
Art. No. 955.900210

SOCKET HOLDERS



| Description | Number of Clips | Finish | L1 (mm) | DL2 (mm) | L3 (mm) | B (mm) | Art. No. | P. Qty. |
|--|-----------------|--------------------------|---------|----------|---------|--------|-----------|---------|
| 1/4" Socket Holder with hole for hanging | 16 | High-gloss chrome-plated | 430 | 13 | 407 | 20 | 713.11101 | 1 |
| 3/8" Socket Holder with hole for hanging | | | | | | | 713.12101 | |
| 1/2" Socket Holder with hole for hanging | | | | | | | 713.13101 | |

MAGNETIC 1/4" SOCKET WRENCH INSERT



Hexagonal with magnet

- 1/4" machine mount, E 6.3
- Material: Chromium-vanadium steel

| Hex (mm) | D (mm) | L (mm) | Weight (g) | Art. No. | P. Qty. |
|----------|--------|--------|------------|------------|---------|
| 1/4" | 10 | 51 | 20 | 614.176713 | 1 |
| 7 | 11 | | 22 | 614.176714 | |
| 8 | 12 | | 29 | 614.176715 | |
| 3/8" | 14 | | 39 | 614.176716 | |
| 10 | 18 | | | 614.176717 | |
| 13 | | | | 614.176718 | |

MAGNETIC NUTSETTERS

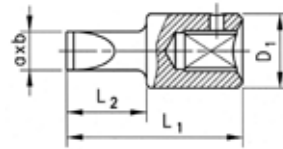


Features:

- Permanent high strength Alnico magnet.
- High quality tool steel.
- Heat treated for long life.

| Hex Opening Size | Hex Shank Size | Length | Art. No. | Qty. |
|------------------|----------------|-------------|----------|------|
| 1/4" | 1/4" | 6" (inches) | 614.6379 | 1 |
| 5/16" | 1/4" | 6" (inches) | 614.6380 | |
| 3/8" | 1/4" | 6" (inches) | 614.6381 | |

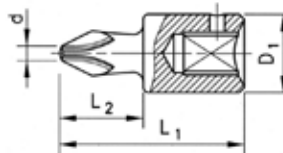
1/4" SOCKET WRENCH INSERT



Slotted

- Surface: Chrome-plated, polished/matt
- Drive: 1/4" square socket, ball catch groove
- Tip: DIN 5264, slotted

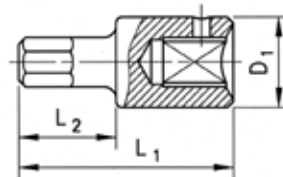
| A (mm) B | L1 (mm) | L2 (mm) | D1 (mm) | Art. No. | P. Qty. |
|-----------|---------|---------|---------|-----------|---------|
| 0.6 x 3.5 | 32 | 12 | 12 | 715.11735 | 1 |
| 1.0 x 5.5 | | | | 715.11755 | |
| 1.2 x 6.5 | | | | 715.11765 | |
| 1.2 x 8.0 | | | | 715.11780 | |



PH

- Surface: Chrome-plated, polished/matt
- Drive: 1/4" square socket, ball catch groove
- Tip: ISO 8764-PH

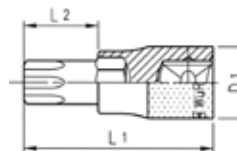
| (mm) | L1 (mm) | L2 (mm) | D1 (mm) | Art. No. | P. Qty. |
|------|---------|---------|---------|-----------|---------|
| PH 1 | 32 | 12 | 12 | 715.11801 | 1 |
| PH 2 | | | | 715.11802 | |
| PH 3 | | | | 715.11803 | |



For hexagon socket, metric

- Surface: Chrome-plated, polished/matt
- Drive: 1/4" square drive, ball catch groove
- Output: For hexagon socket, DIN 7422

| (mm) | L1 (mm) | L2 (mm) | D1 (mm) | Art. No. | P. Qty. |
|------|---------|---------|---------|-----------|---------|
| 3 | 32 | 12 | 12 | 715.11503 | 1 |
| 4 | | | | 715.11504 | |
| 5 | | | | 715.11505 | |
| 6 | | | | 715.11506 | |
| 7 | | | | 715.11507 | |
| 8 | | | | 715.11508 | |

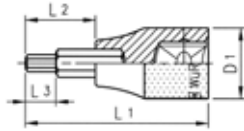


TX

- Surface: chrome-plated
- Drive: 1/4" square socket, ball catch groove
- Tip: For TX screws

| (mm) | L1 (mm) | L2 (mm) | D2 (mm) | Art. No. | P. Qty. |
|------|---------|---------|---------|-----------|---------|
| 2.72 | 32 | 12 | 12 | 715.11310 | 1 |
| 3.26 | | | | 715.11315 | |
| 3.84 | | | | 715.11320 | |
| 4.40 | | | | 715.11325 | |
| 4.96 | | | | 715.11327 | |
| 5.49 | | | | 715.11330 | |
| 6.60 | | | | 715.11340 | |

3/8" SOCKET WRENCH INSERT, METRIC

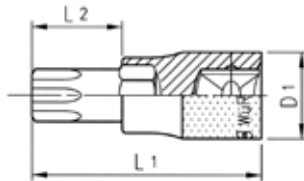


Metric, hexagon, short

- Surface: Chrome-plated, polished/matt
- Drive: 3/8" square socket, ball catch groove
- Tip: For hexagon socket, DIN 7422

| (mm) | L1 (mm) | L2 (mm) | L3 (mm) | D1 (mm) | Art. No. | P. Qty. |
|------|---------|---------|---------|---------|-----------|---------|
| 3 | 50.5 | 20.5 | 11 | 19 | 715.12703 | 1 |
| 4 | | | | | 715.12704 | |
| 5 | | | | | 715.12705 | |
| 6 | | | | | 715.12706 | |
| 7 | | | | | 715.12707 | |
| 8 | | | | | 715.12708 | |
| 9 | | | | | 715.12709 | |
| 10 | | | | | 715.12710 | |

1/2" SOCKET WRENCH INSERT, METRIC

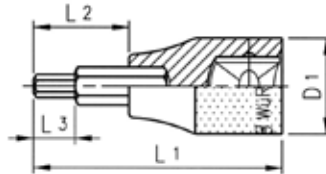


For TX screws, short

- Design: Short
- Surface: chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: For TX screws

| (mm) | L1 (mm) | L2 (mm) | D1 (mm) | Art. No. | P. Qty. |
|------|---------|-----------|---------|------------|---------|
| 20 | 60 | 20 | 22.5 | 715.13320 | 1 |
| 25 | | | | 715.13325 | |
| 27 | | | | 715.13327 | |
| 30 | | | | 715.13330 | |
| 40 | | | | 715.13340 | |
| 45 | | | | 715.13345 | |
| 50 | | | | 715.13350 | |
| 55 | | | | 715.13355 | |
| 60 | | | | 715.13360 | |
| 70 | | | | 25 | |
| 80 | 28 | 715.13380 | | | |
| 100 | 80 | 42 | 26 | 715.133100 | |

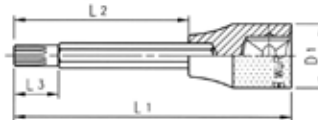
1/2" SOCKET WRENCH INSERT, METRIC



Hexagon

- Surface: Chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon socket
- DIN 7422

| (mm) | L1 (mm) | L2 (mm) | L3 (mm) | D1 (mm) | Art. No. | P. Qty. |
|------|---------|---------|------------|------------|------------|---------|
| 4 | 60 | 20 | 6 | 22.5 | 715.137040 | 1 |
| 5 | | | 7.5 | | 715.137051 | |
| 6 | | | 9 | | 715.137060 | |
| 6 | 140 | 100 | 715.137062 | | | |
| 7 | 60 | 20 | 10.5 | | 715.13707 | |
| 8 | 140 | 100 | - | | 715.137080 | |
| 8 | 60 | 20 | | | 715.137082 | |
| 10 | 140 | 100 | | | 715.137100 | |
| 10 | 60 | 20 | | | 715.137102 | |
| 12 | 140 | 100 | | | 715.137120 | |
| 12 | 60 | 20 | | 715.137122 | | |
| 14 | 140 | 100 | - | 715.13714 | | |
| 17 | 60 | 20 | - | 715.13717 | | |

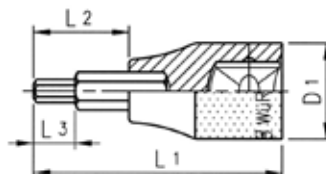


Triple square, short

- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: Triple square

| (mm) | L1 (mm) | L2 (mm) | L3 (mm) | D1 (mm) | Art. No. | P. Qty. |
|------|---------|---------|------------|---------|-----------|---------|
| 5 | 60 | 20 | 4 | 22.5 | 715.13805 | 1 |
| 6 | | | 5 | | 715.13806 | |
| 8 | | | 6 | | 715.13808 | |
| 8 | 100 | 60 | 715.138081 | | | |
| 10 | 60 | 20 | 715.13810 | | | |
| 10 | 100 | 60 | 715.138101 | | | |
| 12 | 60 | 20 | 715.138121 | | | |
| 14 | 100 | 60 | 715.13814 | | | |
| 16 | 60 | 20 | 715.138160 | | | |

1/2" SOCKET WRENCH INSERT, IMPERIAL



Hexagon

- Surface: Chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon socket

| (in.) | L1 (mm) | L2 (mm) | L3 (mm) | D1 (mm) | Art. No. | P. Qty. |
|-------|---------|---------|---------|---------|-----------|---------|
| 7/32 | 60 | 20 | 8.34 | 22.5 | 715.13751 | 1 |
| 1/4 | | | 9.53 | | 715.13752 | |
| 3/8 | | | - | | 715.13754 | |
| 1/2 | | | - | | 715.13756 | |

1/2" SOCKET WRENCH INSERT, METRIC



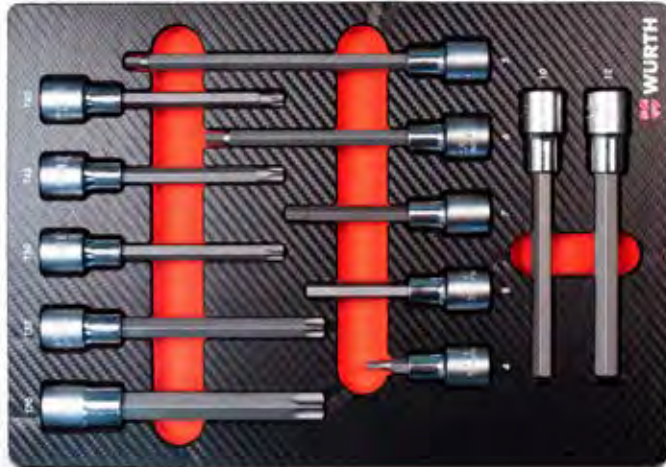
For TX screws, long

- Design: Long
- Surface: chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: For TX screws

| | (mm) | L1 (mm) | L2 (mm) | L3 (mm) | D1 (mm) | Art. No. | P. Qty. |
|----|-------|------------------|---------|---------|---------|------------------|---------|
| 30 | 5.49 | 120 | 80 | 12.5 | 22.5 | 715.13430 | 1 |
| 40 | 6.6 | | | | | 715.13440 | |
| 45 | 7.77 | | | | | 715.13445 | |
| 50 | 8.79 | | | | | 715.13450 | |
| 55 | 11.17 | 715.13455 | | | | | |
| 60 | 13.2 | 140 | 100 | - | 25 | 715.13460 | |
| 70 | 15.49 | | | | | 715.13470 | |

1/2" TX SOCKET WRENCH ASSORTMENT

Art. No. 965.905207



TX 1/2" Socket Wrench Set, 12 pcs System Assortment 4.4.1

- Number of pieces in assortment/set - 12pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

| Description | Art. No. | P. Qty. |
|---|-------------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905207 | 1 |
| "1/2" TX socket wrench long INTX-LONG-TX40" | 715.13440 | |
| "1/2" TX socket wrench long INTX-LONG-TX45" | 715.13445 | |
| "1/2" TX socket wrench long INTX-LONG-TX50" | 715.13450 | |
| "1/2" TX socket wrench long INTX-LONG-TX55" | 715.13455 | |
| "1/2" TX socket wrench long INTX-LONG-TX70" | 715.13470 | |
| 1/2 inch socket wrench metric hex WS4-60MM | 715.137040 | |
| 1/2 inch socket wrench metric hex WS5-60MM | 0715137052 | |
| 1/2 inch socket wrench metric hex WS6-140MM | 715.137062 | |
| 1/2 inch socket wrench metric hex WS7-100MM | 0715137072 | |
| 1/2 inch socket wrench metric hex WS8-90MM | 0715137081 | |
| 1/2 inch socket wrench metric hex WS10-140MM | 715.137102 | |
| 1/2 inch socket wrench metric hex WS12-140MM | 715.137122 | |

Item Only Available by Special Order

1/2-INCH IMPACT SOCKET WRENCH ASSORTMENT



Art. No. 714.900200 - P. Qty. 1

12 pieces. Hexagon, metric, long.

- Fits all conventional compressed air and electric drivers

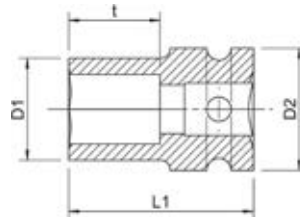
| Contents | Art. No. | P. Qty. |
|---|------------|---------|
| 1/2 inch impact socket wrench insert 10mm | 714.13127 | 1 |
| 1/2 inch impact socket wrench insert 11mm | 714.13128 | |
| 1/2 inch impact socket wrench insert 13mm | 714.1313 | |
| 1/2 inch impact socket wrench insert 14mm | 714.13130 | |
| 1/2 inch impact socket wrench insert 17mm | 714.1314 | |
| 1/2 inch impact socket wrench insert 19mm | 714.1315 | |
| 1/2 inch impact socket wrench insert 21mm | 714.13151 | |
| 1/2 inch impact socket wrench insert 22mm | 714.1316 | |
| 1/2 inch impact socket wrench insert 23mm | 714.13161 | |
| 1/2 inch impact socket wrench insert 24mm | 714.1317 | |
| 1/2 inch power extension 150mm | 714.1323 | |
| 1/2 inch power cardan joint | 714.138351 | |

Sizes only sold individually through Special Order



1/2" Pneumatic Impact Wrench
5714.3010

1/2" IMPACT SOCKET WRENCH INSERT, METRIC

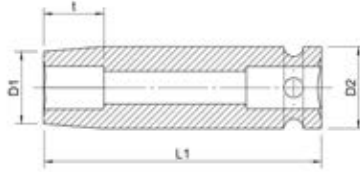


Short

- For use with electric or pneumatic screwdrivers and impact screwdrivers
- Standard: DIN 3129, DIN 3121/ISO 1174
- Design: forged, burnished
- Drive: Square socket 1/2"
- Tip: Hexagon, metric
- Geometry: short

| (mm) | L1 (mm) | D1 (mm) | D2 (mm) | f (mm) | Art. No. | P. Qty. | |
|------|---------|---------|---------|-----------|----------|---------|-----------|
| 9.5 | 38 | 17 | 25 | 12 | 714.1302 | 1 | |
| 10 | | 20 | | 10 | 714.1303 | | |
| 12 | | 21 | | 12 | 714.1304 | | |
| 13 | | 22.5 | | 13.5 | 714.1305 | | |
| 14 | | 23 | | 12 | 714.1306 | | |
| 15 | | 25 | | 13.5 | 714.1307 | | |
| 16 | | 26 | 12 | 714.13071 | | | |
| 17 | | 27.3 | 12.5 | 714.1308 | | | |
| 18 | | 28.5 | 13.5 | 714.13081 | | | |
| 19 | | 30 | 15 | 714.1309 | | | |
| 21 | | 42 | 32 | 30 | 14 | | 714.13091 |
| 22 | | | 34 | | 14.5 | | 714.1310 |
| 24 | 38 | | 17 | | 714.1311 | | |
| 27 | 42 | | 20 | | 714.1312 | | |
| 30 | 44 | | 19 | | 714.1330 | | |
| 32 | 46 | | 20 | | 714.1332 | | |
| 34 | 48 | 44 | 21.5 | 714.1334 | | | |
| 36 | | 49 | 18.5 | 714.1336 | | | |

1/2-INCH IMPACT SOCKET WRENCH INSERT



Hexagon, metric, long.

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. To DIN 3121
- Design: forged, burnished
- Length: 78mm

| Width Across Flats (mm) | External Diameter (D1) (mm) | Base External Diameter (D2) (mm) | Socket Wrench Depth (T) (mm) | Art. No. | P. Qty. |
|-------------------------|-----------------------------|----------------------------------|------------------------------|------------------|---------|
| 10 | 17.5 | 25 | 5 | 714.13127 | 1 |
| 11 | 18.5 | | 6 | 714.13128 | |
| 13 | 20.5 | | | 714.1313 | |
| 14 | 22 | | | 714.13130 | |
| 16 | 24 | | | 714.13131 | |
| 17 | 25 | | | 714.1314 | |
| 18 | 26 | 30 | 9 | 714.13142 | |
| 19 | 27 | | 10 | 714.1315 | |
| 21 | 30 | | 12 | 714.13151 | |
| 22 | 32 | | 13 | 714.1316 | |
| 23 | 34 | | 15 | 714.13161 | |
| 24 | | | | 714.1317 | |
| 27 | 38 | | | 714.1318 | |
| 30 | 42 | | | 714.13194 | |

Available only through Special Order

1/2" IMPACT SOCKET SET



For gentle installation of light metal rims. Long design with color coding system.

Plastic sleeve

- No more damage possible to paint on the aluminum rims.

With plastic stop on the inside of the socket wrench insert.

- For protecting edges and surfaces on chrome plated wheel bolts.

Plastic sleeve with color coding system.

- Simplifies identification of the size, thereby reducing loss of work time.

Note: Use with 1/2" Impact Wrench Gun **Art. No. 703.7360**

| Set | Dia. mm | Art. No. | P. Qty |
|---------|-------------------|------------------|--------|
| 3 Piece | 17 mm 19 mm 21 mm | 714.13030 | 1 |

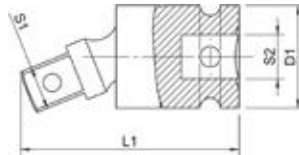
1/2" POWER CONNECTOR



- For all electrical or compressed air-driven screwdrivers and impact screwdrivers.
- Drop-forged special steel guarantees high breaking resistance and wear resistance and increases service life.
- Standard: DIN 3121/ISO 1174
- Design: Forged
- Surface: Burnished
- Drive: 1/2" square socket
- Tip: 3/4" square head

| Length (mm) | Tip size (in.) | Drive (in.) | Art. No. | P. Qty |
|-------------|----------------|-------------|-----------------|--------|
| 50 | 3/4" | 1/2" | 714.1328 | 1 |

1/2" POWER CARDAN JOINT



- For use with electric or pneumatic screwdrivers and impact screwdrivers
- Standard: DIN 3121/ISO 1174
- Design: forged, burnished
- Drive: Square socket 1/2"
- Tip: External square drive 1/2", with ball lock

| S1 | S2 | L1 (mm) | D1 (mm) | Art. No. | P. Qty |
|------|------|---------|---------|-------------------|--------|
| 1/2" | 1/2" | 63 | 30 | 714.138351 | 1 |

1/2" POWER EXTENSION



- For use with electric or pneumatic screwdrivers and impact screwdrivers
- Standard: DIN 3121/ISO 1174
- Design: forged, burnished
- Drive: Square socket 1/2"
- Tip: External square drive 1/2", with ball lock

| Length (mm) | Drive (in.) | Art. No. | P. Qty |
|-------------|-------------|-----------------|--------|
| 75 | 1/2" | 714.1322 | 1 |
| 150 | | 714.1323 | |

1/2" JOINTED HANDLE



- Standard: DIN 3122, ISO 3315
- Joint: Rotatable through 180°, head can be braked in any desired position
- Correct, flexible operation even in obstructed areas
- Powerful tightening
- Version: Chrome-plated

| Length (mm) | Tip size (in.) | Handle diameter (mm) | Width of head (mm) | Art. No. | P. Qty. |
|-------------|----------------|----------------------|--------------------|-------------------|---------|
| 490 | 1/2" | 35 | 20 | 712.130102 | 1 |

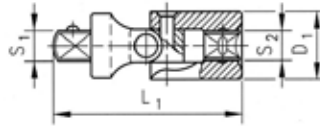
1/2" T-HANDLE



- Standard: DIN 3122, ISO 3315
- Sliding handle: Ball lock
- Design: Chrome-plated
- Application: T or L-handle

| Length (mm) | Tip size (in.) | Head height (mm) | Art. No. | P. Qty. |
|-------------|----------------|------------------|-------------------|---------|
| 295 | 1/2" | 25 | 712.130201 | 1 |

CARDAN JOINTS



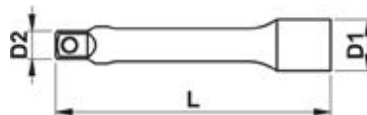
- Surface: Chrome-plated, polished
- Remains in specified position

| S1 | S2 | L1 (mm) | D1 (mm) | Art. No. | P. Qty. |
|------|------|---------|---------|-------------------|---------|
| 1/4" | 1/4" | 33 | 14 | 713.118301 | 1 |
| 1/2" | 1/2" | 70 | 25 | 712.138301 | |

1/4" EXTENSIONS



| Drive (in.) | Drive Type | Tip Size (in.) | Tip Type | Length (mm) | Art. No. | P. Qty. |
|-------------|---------------|----------------|-----------------|-------------|----------------|---------|
| 1/4" | Outer Hexagon | 1/4" | Internal Square | 70 | 613.710 | 1 |
| | | | Square-cut | 150 | 613.711 | |



- Surface: Chrome-plated, polished
- Drive: 1/4" square drive, ball catch groove

| Length (mm) | D1 (mm) | D2 (mm) | Art. No. | P. Qty. |
|-------------|---------|---------|-------------------|---------|
| 25 | 12 | 8.3 | 713.118101 | 1 |
| 53 | | | 713.118102 | |
| 101 | | | 713.118104 | |
| 152 | | | 713.118106 | |
| 250 | | | 713.118110 | |

1/2" ANGLED EXTENSIONS

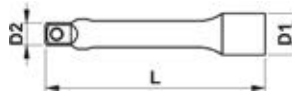


Art. No. **712.138100** P. Qty: 1

For working in hard-to-reach places

- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: 1/2" square head
- Length: 50 mm
- Angular movement of up to 8°

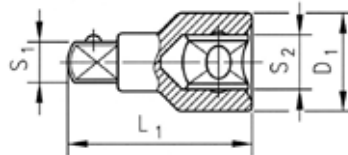
1/2" EXTENSIONS



- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: 1/2" square head

| Length (mm) | D1 (mm) | D2 (mm) | Art. No. | P. Qty |
|-------------|---------|---------|-------------------|--------|
| 53 | 23 | 15 | 712.138102 | 1 |
| 75 | | | 712.138103 | |
| 125 | | | 712.138105 | |
| 250 | | | 712.138110 | |
| 457 | | 17 | 712.138118 | |

CONNECTORS



- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated, polished
- Material: Steel

| Drive | Tip Size | L1 (mm) | Socket wrench external diameter (mm) | Art. No. | P. Qty |
|-------|----------|---------|--------------------------------------|-------------------|--------|
| 1/4" | 3/8" | 24 | 12.5 | 713.118401 | 1 |
| 3/8" | 1/4" | 27 | 17 | 713.128401 | |
| | 1/2" | 36 | 20 | 713.128402 | |
| 1/2" | 3/8" | 38 | 23 | 712.138401 | |
| | 3/4" | 44 | 25 | 712.138402 | |
| 3/4" | 1/2" | 53.5 | 34 | 715.14108 | |

WÜRTH GRIPPER



Thanks to its 54 spring loaded pins, it can firmly grip square, hexagonal, and Torx profiles as well as wing nuts, hook screws and eye bolts

Note: It acts as a problem solving universal applicable tool, which can be stressed only with the maximum torque. The tool does not replace professional socket spanners.

Used for loosening and tightening bolts and nuts

- All purpose applicable as socket spanner insert from SW7 to SW19 or SW13 to SW32
- Replaces hexagon wrench, hexagon head and open-ended wrench.
- Saves an enormous amount of time and space

| | | Length (mm) | Fmax in Nm | Art. No. | P. Qty. |
|-----------|------|-------------|------------|-------------------|---------|
| 7 - 19 mm | 3/8" | 53.5 | 225 | 714.121907 | 1 |



FLEXIBLE EXTENSION



Flexible Extension for working in hard to reach places

Features:

- For fittings that are extremely difficult to access
- For high torques applications
- Drive with hinged design that enables "around the corner working"



| Length | Max. torque | Product weight (per item) | Drive | Art. No. | Qty |
|--------|-------------|---------------------------|----------|--------------------|-----|
| 235 mm | 178 Nm | 377.800 g | 3/8 inch | 1952.001275 | 1 |
| 225 mm | 351 Nm | 627.8 g | 1/2 inch | 1952.001276 | 1 |

RATCHET ADAPTER ASSORTMENT



Art. No. 965.1280 8 pcs.

Combined adapter assortment with most common socket-wrench and bit adapters

- Chrome-plated finish
- Square drive

| Socket adapters | | |
|-----------------|--------------|------|
| Ratchet Drive | Socket Drive | Qty. |
| 3/4" | 1/2" | 1 |
| 1/2" | 3/4" | |
| 1/2" | 3/8" | |
| 3/8" | 1/2" | |
| 1/4" | 3/8" | |
| 3/8" | 1/4" | |
| Bit Adapters | | |
| 1/4" | 1/4" | 1 |
| 3/8" | 5/16" | |



1/4" AND 1/2" SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.1756 56 pcs.

Extensive 1/4" and 1/2" combination assortment for a very wide range of applications, ratchets with rotary disc reverse.



1/4":

- 1 ratchet
- 1 extension each 100; 150 mm
- 1 cardan joint
- 12 socket wrenches sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm

1/2":

- 1 ratchet
- 1 extension each 125; 250 mm
- 1 cardan joint
- 19 socket wrenches 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 26; 27; 28; 30; 32 mm
- 1 handle 1/4"
- 1 adapter with quick-change chuck
- 15 bits: PH 1, 2, 3; slotted 0.8 x 5.5 mm; hexagon socket. Sizes 3, 4, 5, 6; TX 10, 15, 20, 25, 27, 30,



Art. No. 965.905901 56 pcs.

1/4" + 1/2" Socket Wrench, 56pcs System assortment 8.4.1

- Number of pieces in assortment/set - 56pc
- Size foam section - 8.4.1
- Width x height x depth - 462 x 38 x 335 mm
- Décor - Carbon appearance



1/2":

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 19 socket wrench inserts: Sizes 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32

1/4":

- 1 screwdriver
- 1 ratchet
- 2 extensions: 100, 150 mm
- 1 cardan joint
- 1 Zebra handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts: Sizes 4; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- 3 PH bits: PH1, PH2, PH3
- 1 bit slotted: Slotted: 0.8 x 5.5
- 4 bits for hexagon socket: Sizes 3, 4, 5, 6
- 7 TX bits: TX 10, 15, 20, 25, 27, 30, 40



Art. No. 965.1116 16 pcs.

- 1 ratchet
- 2 extensions: 100, 150 mm
- 1 cardan joint
- 12 socket wrench inserts: Sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14



1/4" AND 1/2" SOCKET ASSORTMENT – LEVER RATCHET



Art. No. 965.09059 59 pcs.

Extensive 1/4" and 1/2" combination assortment for a very wide range of applications, ratchets with lever reverse.

1/4":

- 1 lever ratchet
- 1 25 mm angled extension
- 1 150 mm extension
- 1 150 mm flexible extension
- 1 cardan joint,
- 1 1/4" screwdriver handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts, sizes: 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- 3 PH bits: PH 1, 2, 3
- 4 hexagon socket bits: Sizes 3, 4, 5, 6 mm

- 7 TX bits: TX 10, 15, 20, 25, 27, 30, 40
- 1 slotted bit: 0.8 x 5.5 mm

1/2":

- 1 lever ratchet
- 1 53 mm angled extension
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 19 socket wrench inserts, sizes: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32

1/4" SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.1132 33 pcs.

Hexagon

- 1 ratchet
- 2 extensions: 100, 150 mm
- 1 cardan joint
- 1 Zebra handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts: Sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14

- 3 PH bits: PH1, PH2, PH3
- 1 slotted bit: 0.8 x 5.5
- 4 hexagon socket bits: Sizes 3, 4, 5, 6 mm
- 7 TX bits: TX 10, 15, 20, 25, 27, 30, 40



1/4" SOCKET ASSORTMENT – BALL HEAD T-RATCHET



Art. No. 965.01427 27 pcs.

Multi-functional spherical ratchet with adjustable handle and the most commonly used socket wrenches in a compact product range

Features:

- Drive: 6.3 - 1/4"
- Standard: DIN 3122, ISO 3315
- Head: 72 teeth, angle of rotation: 5°, joint can be rotated 270°
- Handle: Two-component handle, straight or adjustable 90° as T-handle

| Designation | Length in mm | Art. No. | P. Qty. |
|---|----------------|--|---------|
| Spherical Head Ratchet | 145 | 712.01405 | 1 |
| 9 Socket Wrench Inserts: One each of 6; 7; 8; 9; 10; 11; 12; 13; 14 | 22 | 713.111106 713.111114 | |
| 14 Socket Wrench Insert Bits: PH 1; PH 2; PH 3 | 25 | 715.11801 715.11803 | |
| Internal hex.: 4; 5; 6 | | 715.11503-06 | |
| TX: 10, 15, 20, 25, 27, 30, 40 | | 715.11310-40 | |
| Slotted: 1.0 x 5.5 | | 715.11755 | |
| Extensions | 50; 150 | 715.118102-116** | |
| Cardan Joint | 33 | 713.118301 | |
| Foam Insert | 215 x 105 x 30 | 955.01427** | |
| Metal Box, size 1 | 220 x 110 x 35 | 955.7151** | |

** Special Order – Alternative Extensions in prefix 713.1181XX



3 in 1!

Can be used like a conventional ratchet, as a screwdriver or a T-handle!



1/4" MULTI-SOCKET ASSORTMENT – LEVER RATCHET

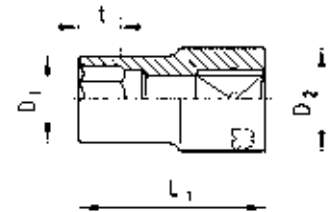


Art. No. 965.01434 34 pcs.

One set for almost any job, 34 pcs. The multiple profile is suitable for the five most common screw head drives (hexagon metric, square metric, bi-hex metric, hexagon inch, TX head).

- 1 lever ratchet
- 1 25 mm angled extension
- 1 150 mm extension
- 1 150 mm flexible extension
- 1 cardan joint
- 1 1/4" screwdriver handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts, sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- 3 PH bits, PH 1, PH 2, PH 3
- 4 bits for hexagon socket, 3, 4, 5, 6 mm
- 7 TX bits, TX 10, 15, 20, 25, 27, 30, 40
- 1 slotted bit, 0.8 x 5.5

| Multi-profile | Possible uses | | | | | Note: This is a metric set. Standard sizes are only approximate equivalencies and may not work in all applications! | | | | | | Qty. |
|---------------|---------------|----------|---------|-------|--------------|---|-------|-----------|-------|------------|---|------|
| | 6/12 sided/12 | | 6 sided | | Outside Torx | | | | | | | |
| | | | | | | | | | | | | |
| in mm | in mm | bolt sz | head sz | in TX | in mm | in mm | in mm | in mm | in mm | | | |
| 4 | size 4 | - | 5/32" | E5 | - | 22 | 6.8 | 11.9 | 5 | 713.11304 | 1 | |
| 5 | size 5 | - | - | - | size 4 | | 8.1 | | | 713.11305 | | |
| 5.5 | size 5.5 | - | 7/32" | - | size 4.5 | | 8.7 | | | 713.113055 | | |
| 6 | size 6 | - | - | E8 | size 5 | | 9.3 | | | 713.11306 | | |
| 7 | size 7 | - | 9/32" | - | - | | 10.8 | 713.11307 | | | | |
| 8 | size 8 | #10, #12 | 5/16" | E10 | - | | 11.9 | 713.11308 | | | | |
| 9 | size 9 | - | 11/32" | - | - | | 13.4 | 713.11309 | | | | |
| 10 | size 10 | 1/4" | 3/8" | E12 | size 8 | | 14.5 | 713.11310 | | | | |
| 11 | size 11 | 1/4" | 7/16" | E14 | size 9 | | 15.9 | 713.11311 | | | | |
| 12 | size 12 | - | 15/32" | E16 | size 10 | | 16.9 | 713.11312 | | | | |
| 13 | size 13 | 5/16" | 1/2" | - | - | | 18 | 713.11313 | | | | |
| 14 | size 14 | 3/8" | 9/16" | E18 | - | | 19.6 | 713.11314 | | | | |



MULTI-PROFILE



suitable for the five most common screw head drives:

- **Hexagon** metric
- **Square** metric
- **Bi-hexagon** metric
- **Hexagon** imperial
- **TX head**

1/4" MULTI-SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.11032 32 pcs.

The multiple profile is suitable for the five most common screw head drives (hexagon metric, square metric, bi-hex metric, hexagon inch, TX head).

- Supplied in a metal box with high-quality foam insert compartment with clamping effect
- 12 sockets
- 14 1/4" bits



| Designation | Drive | Length | Art. No. | Qty. |
|---------------------------------|-------|--------|-------------------------|------|
| Ratchet | | 138 mm | 712.0140 | 1 |
| Extension | | 100 mm | 713.118104 | |
| Extension | | 150 mm | 713.118106 | |
| Universal joint | | 33 mm | 713.118301 | |
| Screwdriver handle | | 216 mm | 613.430311 | |
| Adapter with quick change chuck | | 30 mm | 715.1101 | |
| 12 multi-use sockets, 4 - 14 mm | | 22 mm | 713.11304- 713.11314 | 1 |
| PH 1 | | 25 mm | 714.176274 | |
| PH 2 | | | 614.176461 | |
| PH 3 | | | 614.176648 | |

| Designation | Drive | Length | Art. No. | Qty. |
|------------------------|----------|--------|------------|------|
| Bit slotted 0.8 x 5.5 | | 25 mm | 614.175653 | 1 |
| Bit hex. socket size 3 | | | 614.17693 | |
| Bit hex. socket size 4 | | | 614.17694 | |
| Bit hex. socket size 5 | | | 614.17695 | |
| Bit hex. socket size 6 | | | 614.17696 | |
| TX 10 | | | 614.3110 | |
| TX 15 | 614.3115 | | | |
| TX 20 | 614.3120 | | | |
| TX 25 | 614.3125 | | | |
| TX 30 | 614.3130 | | | |
| TX 40 | 614.3140 | | | |

1/4" Multi-Use Sockets

- Chrome plated; 1/4" square drive.
- Fits 5 different common head styles.

1/4" High-Performance Ratchet

- Chrome-plated with anti-slip 2-component handle.
- Head: fine toothed; 72 teeth; 5° rotating angle.

1/4" Drive Screwdriver

- Round blade; ball groove.

1/4" Extension Bars

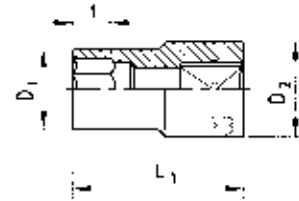
- Chrome plated; ball groove.

1/4" Universal Joint

- Chrome plated; ball groove; spring loaded joint.

1/4" Adapter

- Square socket input drive for use with ratchet to square drive.
- 1/4" hex socket output drive, universal holder for 1/4" bits.



| Multi-profile | Possible uses | | | | | Note: This is a metric set. Standard sizes are only approximate equivalencies and may not work in all applications! | | | | | Qty. | |
|---------------|---------------|----------|---------|-------|--------------|---|-------|-------|-------|------|------------|---------|
| | 6/12 sided/12 | | 6 sided | | Outside Torx | | | | | | | 4-sided |
| | | | | | | | | | | | | |
| in mm | in mm | bolt sz | head sz | in TX | in mm | in mm | in mm | in mm | in mm | | | |
| 4 | size 4 | - | 5/32" | E5 | - | 22 | 6.8 | 11.9 | 11.9 | 5 | 713.11304 | 1 |
| 5 | size 5 | - | - | - | size 4 | | 8.1 | | | 5 | 713.11305 | |
| 5.5 | size 5.5 | - | 7/32" | - | size 4.5 | | 8.7 | | | 5.5 | 713.113055 | |
| 6 | size 6 | - | - | E8 | size 5 | | 9.3 | | | 6 | 713.11306 | |
| 7 | size 7 | - | 9/32" | - | - | | 10.8 | | | 6 | 713.11307 | |
| 8 | size 8 | #10, #12 | 5/16" | E10 | - | | 11.9 | | | 7 | 713.11308 | |
| 9 | size 9 | - | 11/32" | - | - | | 13.4 | | | 13.4 | 713.11309 | |
| 10 | size 10 | 1/4" | 3/8" | E12 | size 8 | | 14.5 | | | 14.5 | 713.11310 | |
| 11 | size 11 | 1/4" | 7/16" | E14 | size 9 | | 15.9 | | | 15.9 | 713.11311 | |
| 12 | size 12 | - | 15/32" | E16 | size 10 | | 16.9 | | | 16.9 | 713.11312 | |
| 13 | size 13 | 5/16" | 1/2" | - | - | | 18 | | | 18 | 713.11313 | |
| 14 | size 14 | 3/8" | 9/16" | E18 | - | | 19.6 | | | 19.6 | 713.11314 | |

MULTI-PROFILE

suitable for the five most common screw head drives:

- Hexagon metric
- Square metric
- Bi-hexagon metric
- Hexagon imperial
- TX head

1/4" MINI MULTI-SOCKET ASSORTMENT – LEVER RATCHET

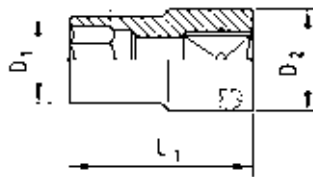


72 Zähne
72 teeth

Max.
40 Nm!

Powerful bit ratchet

Very robust design, max. torque of up to 40 Nm



MULTI-PROFILE



suitable for the five most common screw head drives:

- Hexagon metric
- Square metric
- Bi-hexagon metric
- Hexagon imperial
- TX head

Art. No. 965.1123 23 pcs.

Compact special tool with bit ratchet, multi-socket wrench and adapter. The multi profile is suitable for the five most common screw head drives (hexagon metric, square metric, bi-hex metric, hexagon inch, external TX).

Bit ratchet

- Tip: For 1/4" hexagon head drive in accordance with DIN 3126-C 6.3 and E 6.3
- Head: Extremely compact ratchet head, finely toothed, 64 teeth
- Surface: Chrome-plated
- With 2-component handle, very slim design, angled at 10°

Uses:

- The ideal problem solver in mechanical trades, e.g. cars and commercial vehicles, motorcycles and bicycles, mechanical engineering, precision mechanics and the furniture industry

Powerful bit ratchet

- Very robust design, max. torque of up to 40 Nm

Maximum flexibility

- Can be easily combined with a wide range of different adapters, bit holders, and socket wrench inserts

Contents:

- Bit ratchet
- 100 mm extension
- 100 mm bit holder
- 25 mm connector
- 1 each of multi-socket wrench sizes 5, 6, 8, 10, 11, 13 mm
- 1 bit each of PH 1, PH 2
- 1 slotted bit, 0.8 x 5.5 mm
- 1 bit each for hexagon socket sizes 3, 4, 5, 6 mm
- 1 bit each of TX 10, 15, 20, 25, 27, 30

| Multi-profile | Possible uses | | | | | | Note: This is a metric set. Standard sizes are only approximate equivalencies and may not work in all applications! | | | | | |
|---------------|---------------|----------|---------|-----|--------------|---------|---|-------|-----------|-----------|----------|------|
| | 6/12 sided/12 | | 6 sided | | Outside Torx | 4-sided | L1 | D1 | D2 | t | Art. No. | Qty. |
| | | | | | | in mm | in mm | in mm | in mm | | | |
| 5 | size 5 | - | - | - | size 4 | 22 | 8.1 | 11.9 | 5 | 713.11305 | 1 | |
| 6 | size 6 | - | - | E8 | size 5 | | 9.3 | | 6 | 713.11306 | | |
| 8 | size 8 | #10, #12 | 5/16" | E10 | - | | 11.9 | 7 | 713.11308 | | | |
| 10 | size 10 | 1/4" | 3/8" | E12 | size 8 | | 14.5 | 14.5 | 10 | 713.11310 | | |
| 11 | size 11 | 1/4" | 7/16" | E14 | size 9 | | 15.9 | 15.9 | 10 | 713.11311 | | |
| 13 | size 13 | 5/16" | 1/2" | - | - | | 18 | 18 | 11 | 713.11313 | | |

3/8" SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.1242 42 pcs.

- 1 ratchet
- 1 75 mm extension
- 1 250 mm extension
- 1 cardan joint
- 14 socket wrench inserts, short: Sizes 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22
- 8 socket wrench inserts, long: Sizes 8, 10, 13, 16, 17, 18, 19, 21
- 8 socket wrench inserts: E 5, 6, 7, 8, 10, 11, 12, 14
- 8 TX socket wrench inserts: TX 15, 20, 25, 27, 30, 40, 45, 50



3/8" MULTI-SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.12022 22 pcs.

- Supplied in a metal box and a high-quality foam insert to hold each piece in place.
- Box: 315 x 115 x 40 mm (approx.: 12-3/8 x 4-1/2 x 1-9/16")



****Alternative extensions available in prefix 713.128XX - Special order only.**

| Designation | Tip | Length | Art. No. | Qty. |
|-----------------|-----|--------|---------------------|------|
| Ratchet | | 175 mm | 712.0380 | 1 |
| Extension Bar | | 125 mm | 713.128105** | |
| Extension Bar | | 250 mm | 713.128110** | |
| Universal Joint | | 55 mm | 713.128301** | |

| Designation | Tip | Length | Art. No. | Qty. |
|----------------------------------|-----|--------------|------------------------------|------|
| 18 multi-sockets, 1 ea., 6-22 mm | | 25.5 - 31 mm | 713.12306 - 713.12322 | 1 |

3/8" Universal Joint

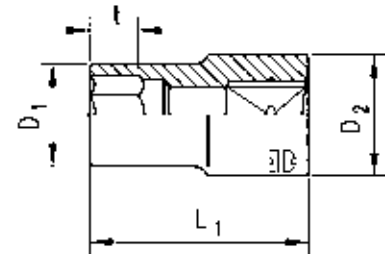
- Standard: DIN 3123, ISO 3316.
- Finish: chrome-plated.
- Input drive: 3/8", ball groove.
- Output drive: 3/8".
- Joint: spring-loaded, stays in set position.

3/8" Extension Bars

- Standard: DIN 3123, ISO 3316.
- Finish: chrome-plated.
- Input drive: 3/8" ball groove.
- Output drive: 3/8".

3/8" High-Performance Ratchet

- Easy handling and maximum service life.
- Drive: 10mm / 3/8".
- Standard, DIN 3122, ISO 3315.
- Head: fine-toothed, 72 teeth, 5° rotating angle.
- Chrome-plated with anti-slip 2-component handle resistant to general workplace oils and cleaners.
- Top quality, tested by German TÜV SÜD product service.
- Handy directional switch for easy switching, even with oily fingers; can be operated with one hand.
- Chamfer on square enables easier pull-off as better gripping is possible.
- Offset ratchet body enables more clearance for gripping with screw connections.



| Multi-profile | Possible uses | | | | | | Note: This is a metric set. Standard sizes are only approximate equivalencies and may not work in all applications! | | | | | Qty. |
|---------------|---------------|-------|---------|-----|--------------|---------|---|------------------|-------|-------------------|----------|------------------|
| | 6/12 sided/12 | | 6 sided | | Outside Torx | 4-sided | L1 | D1 | D2 | t | Art. No. | |
| | | | | | | | in mm | in mm | in mm | in mm | | |
| 6 | 6 mm | - | - | E8 | 5 mm | 25.5 | 9.3 | 17 | 7 | 713.12306 | 1 | |
| 6.3 | 6.3 mm | - | 1/4" | - | - | | 9.9 | | | 713.123063 | | |
| 7 | 7 mm | - | 9/32" | - | - | | 10.9 | | | 713.12307 | | |
| 8 | 8 mm | - | 5/16" | E10 | - | | 11.8 | | | 713.12308 | | |
| 9 | 9 mm | - | 11/32" | - | - | | 13.4 | | | 713.12309 | | |
| 10 | 10 mm | - | 3/8" | E12 | 8 mm | | 14.6 | | | 713.12310 | | |
| 11 | 11 mm | 1/4" | 7/16" | E14 | 9 mm | | 15.9 | | | 713.12311 | | |
| 12 | 12 mm | - | 15/32" | E16 | 10 mm | | 17 | | | 713.12312 | | |
| 13 | 13 mm | 5/16" | 1/2" | - | - | | 18.4 | | | 713.12313 | | |
| 14 | 14 mm | 3/8" | 9/16" | E18 | - | | 19.6 | | | 18 | | 713.12314 |
| 15 | 15 mm | - | 19/32" | - | 12 mm | 20.9 | 19 | 713.12315 | | | | |
| 16 | 16 mm | 7/16" | 5/8" | E20 | 13 mm | 22 | 20 | 713.12316 | | | | |
| 17 | 17 mm | - | - | - | 14 mm | 23.4 | 21 | 713.12317 | | | | |
| 18 | 18 mm | - | - | E22 | - | 24.5 | 21.5 | 713.12318 | | | | |
| 19 | 19 mm | 1/2" | 3/4" | E24 | - | 25.6 | 22.5 | 713.12319 | | | | |
| 20 | 20 mm | - | 25/32" | - | 16 mm | 26.8 | 23.5 | 713.12320 | | | | |
| 21 | 21 mm | 9/16" | 13/16" | E26 | 17 mm | 27.9 | 24.5 | 713.12321 | | | | |
| 22 | 22 mm | - | 7/8" | E28 | 18 mm | 29.6 | 26 | 713.12322 | | | | |

MULTI-PROFILE

suitable for the five most common screw head drives:

- Hexagon metric
- Square metric
- Bi-hexagon metric
- Hexagon imperial
- TX head

1/2" SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.13230 23 pcs.

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 19 socket wrench inserts: Sizes 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32



1/2" T-HANDLE SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.1320 21 pcs.

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 1 T-handle
- 16 socket wrench inserts: Sizes 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24, 27, 30, 32, 34



1/2" SOCKET + TX SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.13210 21 pcs.

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 8 socket wrench inserts: E 10, 11, 12, 14, 16, 18, 20 and 24
- 9 TX socket wrench inserts: TX 20, 25, 27, 30, 40, 45, 50, 55 and 60



1/2" SOCKET ASSORTMENT IMPERIAL – ROTARY RATCHET



Art. No. 965.1219 19 pcs.

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 15 socket wrench inserts, imperial:
- 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8



1/2" MULTI-SOCKET ASSORTMENT



Art. No. 965.13023 23 pcs.

- Supplied in a metal box and a high-quality foam insert to hold each piece in place.
- Box: 405 x 160 x 50 mm (approx.: 16 x 6 5/16 x 2")



| Designation | Tip | Length | Art. No. | Qty. |
|-----------------|-----|--------|-------------------|------|
| Ratchet | | 250 mm | 712.012 | 1 |
| Extension Bar | | 125 mm | 712.138105 | |
| Extension Bar | | 250 mm | 712.138110 | |
| Universal Joint | | 70 mm | 712.138301 | |

| Designation | Tip | Length | Art. No. | Qty. |
|-----------------------------------|-----|------------|--------------------------------------|------|
| 19 multi-sockets, 1 ea., 10-32 mm | | 36 - 44 mm | 712.13410 712.13432 | 1 |

1/2" Universal Joint

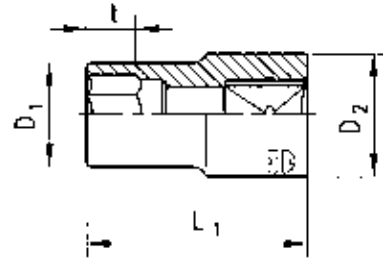
- Standard: DIN 3123, ISO 3316.
- Finish: chrome-plated.
- Input drive: 1/2", ball groove.
- Output drive: 1/2".
- Joint: spring-loaded, stays in set position.

1/2" Extension Bars

- Standard: DIN 3123, ISO 3316.
- Finish: chrome-plated.
- Input drive: 1/2" ball groove.
- Output drive: 1/2".

1/2" High-Performance Ratchet

- Easy handling and maximum service life.
- Drive: 12.5mm / 1/2".
- Standard, DIN 3122, ISO 3315.
- Head: fine-toothed, 72 teeth, 5° rotating angle.
- Chrome-plated with anti-slip 2-component handle resistant to general workplace oils and cleaners.
- Top quality, tested by German TÜV SÜD product service.
- Handy directional switch for easy switching, even with oily fingers; can be operated with one hand.
- Chamfer on square enables easier pull-off as better gripping is possible.
- Offset ratchet body enables more clearance for gripping with screw connections.



| Multi-profile | Possible uses | | | | | | Note: This is a metric set. Standard sizes are only approximate equivalencies and may not work in all applications! | | | | | Qty. |
|---------------|---------------|-------|---------|-----|--------------|---------|--|------------------|------------------|------------------|---|------|
| | 6/12 sided/12 | | 6 sided | | Outside Torx | 4-sided | | | | | | |
| | | | | | | in mm | in mm | in mm | in mm | in mm | | |
| 10 | 10 | 1/4" | 3/8" | E12 | 8 mm | 36 | 15.5 | 23 | 9 | 712.13410 | 1 | |
| 11 | 11 | 1/4" | 7/16" | E14 | 9 mm | | 16.7 | | 10 | 712.13411 | | |
| 12 | 12 | - | 15/32" | E16 | 10 mm | | 18 | | 11 | 712.13412 | | |
| 13 | 13 | 5/16" | 1/2" | - | - | | 19.2 | | 13 | 712.13413 | | |
| 14 | 14 | 3/8" | 9/16" | E18 | - | | 20.5 | | 14 | 712.13414 | | |
| 15 | 15 | - | 19/32" | - | 12 mm | | 21.7 | | 712.13415 | | | |
| 16 | 16 | 7/16" | 5/8" | E20 | 13 mm | | 23 | | 712.13416 | | | |
| 17 | 17 | - | - | - | 14 mm | | 24.2 | | 23.2 | 712.13417 | | |
| 18 | 18 | - | - | E22 | - | | 25.5 | | 23.5 | 712.13418 | | |
| 19 | 19 | 1/2" | " | E24 | - | | 26.7 | | 24.7 | 712.13419 | | |
| 20 | 20 | - | 25/32" | - | 16 mm | | 28 | | 25.5 | 712.13420 | | |
| 21 | 21 | 9/16" | 13/16" | E26 | 17 mm | | 29.2 | | 26 | 712.13421 | | |
| 22 | 22 | - | 7/8" | E28 | 18 mm | | 30.5 | | 26.5 | 712.13422 | | |
| 24 | 24 | 5/8" | 15/16" | E30 | 19 mm | | 33 | | 29 | 712.13424 | | |
| 26 | 26 | - | - | E32 | 21 mm | | 35.5 | | 31.5 | 712.13426 | | |
| 27 | 27 | - | 1-1/16" | E34 | 22 mm | | 36.7 | | 32.2 | 712.13427 | | |
| 28 | 28 | 3/4" | 1-1/8" | E36 | 23 mm | | 38 | | 33.5 | 712.13428 | | |
| 30 | 30 | - | 1-3/16" | E38 | 24 mm | | 40.5 | | 36 | 712.13530 | | |
| 32 | 32 | - | - | E40 | 26 mm | 43 | 38.1 | 712.13432 | | | | |

MULTI-PROFILE

suitable for the five most common screw head drives:

- Hexagon metric
- Square metric
- Bi-hexagon metric
- Hexagon imperial
- TX head

1/2" DRIVE TORX/XZN/ALLEN SOCKET ASSORTMENT



Art. No. 965.13310 31 pcs.

Complete 1/2" assortment with short and long Allen, inner TX and multipoint XZN sockets. Contents especially matched to automotive and cargo applications.

- Metal box 350 x 260 x 55 mm (13-3/4" x 10-1/4" x 2-3/16")
- 8 TX socket wrenches, short version
- TX 25, 27, 30, 40, 45, 50, 55, 60
- 4 TX socket wrenches, long version
- TX 30, 40, 50, 60
- 4 XZN multipoint socket wrenches, short version
- M 5, 6, 8, 10
- 3 XZN multipoint socket wrenches, long version
- M 8, 10, 12
- 8 Allen socket wrenches, short version
- 5, 6, 7, 8, 10, 12, 14, 17 mm
- 4 Allen socket wrenches, long version
- 6, 8, 10, 12 mm

1/4-INCH, 3/8-INCH & 1/2-INCH SOCKET WRENCH ASSORTMENT



Art. No. 965.1777 - P. Qty. 1

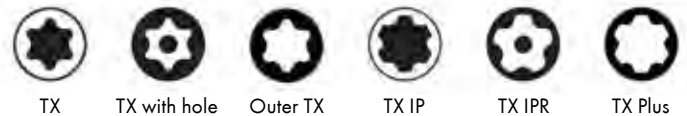
77 pcs Extensive TX Assortment with the most common profiles.

Features & Benefits:

- Output: TX, TX with hole, Outer TX, TX IP, TX IPR, TX Plus.
- Drive: 1/4 inch, 3/8 inch and 1/2 inch socket wrench with square drive.
- Material: Chrome-vanadium steel.
- Suitable for manual use in DIN 3120 ratchets.
- Kit Dimensions: 410 x 600 x 330 mm

Application:

- TX IP: Timing-belt housing cover, gearbox, engine in general, etc.
- TX IPR: Plug-in pumps in pump-line-nozzle systems, air flow systems, vehicle control units, injection pumps, alternator etc.
- TX Plus: Flywheels, Coupling attachments, transmissions etc.
- Other application areas with TX tamper resistant screw heads.



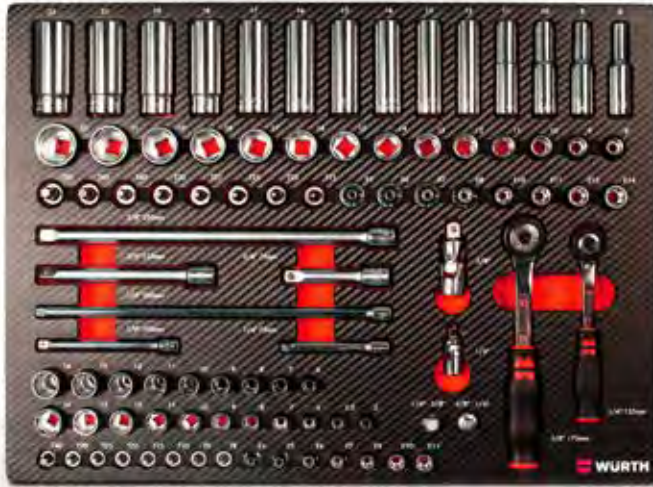
| Contents | Art. No. | P. Qty. |
|------------------------------|-------------|---------|
| 1/4" TX6; 37mm | 715.1135061 | |
| 1/4" TX8; 37mm | 715.1135081 | |
| 1/4" TX10; 37mm | 715.1135101 | |
| 1/4" TX15; 37mm | 715.1135151 | |
| 1/4" TX20; 37mm | 715.1135201 | |
| 1/4" TX25; 37mm | 715.1135251 | |
| 1/4" TX27; 37mm | 715.1135271 | |
| 1/4" TX30; 37mm | 715.1135301 | |
| 1/2" TX40; 55mm | 715.1316401 | |
| 1/2" TX45; 55mm | 715.1316451 | |
| 1/2" TX47; 55mm | 715.1316471 | |
| 1/2" TX50; 55mm | 715.1316501 | |
| 1/2" TX55; 55mm | 715.1316551 | |
| 1/2" TX60; 55mm | 715.1316601 | |
| 1/2" TX70; 55mm | 715.1316701 | |
| 1/4" TX with hole TX10; 37mm | 715.113610 | |
| 1/4" TX with hole TX15; 37mm | 715.113615 | |
| 1/4" TX with hole TX20; 37mm | 715.113620 | |
| 1/4" TX with hole TX25; 37mm | 715.113625 | |
| 1/4" TX with hole TX27; 37mm | 715.113627 | |
| 1/4" TX with hole TX30; 37mm | 715.113630 | |
| 1/2" TX with hole TX40; 55mm | 715.131740 | |
| 1/2" TX with hole TX45; 55mm | 715.131745 | |
| 1/2" TX with hole TX50; 55mm | 715.131750 | |
| 1/2" TX with hole TX55; 55mm | 715.131755 | |
| 1/2" TX with hole TX60; 55mm | 715.131760 | |

| Contents | Art. No. | P. Qty. |
|--------------------------------|------------|---------|
| 1/4" insert, TX head E4; 25mm | 715.112104 | |
| 1/4" insert, TX head E5; 25mm | 715.112105 | |
| 1/4" insert, TX head E6; 25mm | 715.112106 | |
| 1/4" insert, TX head E7; 25mm | 715.112107 | |
| 1/4" insert, TX head E8; 25mm | 715.112108 | |
| 3/8" insert, TX head E10; 28mm | 715.122210 | |
| 3/8" insert, TX head E12; 28mm | 715.122212 | |
| 3/8" insert, TX head E14; 28mm | 715.122214 | |
| 3/8" insert, TX head E16; 28mm | 715.122216 | |
| 1/2" insert, TX head E18; 38mm | 715.132318 | |
| 1/2" insert, TX head E20; 38mm | 715.132320 | |
| 1/2" insert, TX head E22; 38mm | 715.132322 | |
| 1/2" insert, TX head E24; 38mm | 715.132324 | |
| 1/4" TX IP, TX8; 37mm | 715.113708 | |
| 1/4" TX IP, TX10; 37mm | 715.113710 | |
| 1/4" TX IP, TX15; 37mm | 715.113715 | |
| 1/4" TX IP, TX20; 37mm | 715.113720 | |
| 1/4" TX IP, TX25; 37mm | 715.113725 | |
| 1/4" TX IP, TX27; 37mm | 715.113727 | |
| 1/4" TX IP, TX30; 37mm | 715.113730 | |
| 1/2" TX IP, TX40; 55mm | 715.131840 | |
| 1/2" TX IP, TX45; 55mm | 715.131845 | |
| 1/2" TX IP, TX50; 55mm | 715.131850 | |
| 1/2" TX IP, TX55; 55mm | 715.131855 | |
| 1/2" TX IP, TX60; 55mm | 715.131860 | |
| 1/4" TX IPR, TX8; 37mm | 715.113808 | |

| Contents | Art. No. | P. Qty. |
|-------------------------|------------|---------|
| 1/4" TX IPR, TX10; 37mm | 715.113810 | |
| 1/4" TX IPR, TX15; 37mm | 715.113815 | |
| 1/4" TX IPR, TX20; 37mm | 715.113820 | |
| 1/4" TX IPR, TX25; 37mm | 715.113825 | |
| 1/4" TX IPR, TX27; 37mm | 715.113827 | |
| 1/4" TX IPR, TX30; 37mm | 715.113830 | |
| 1/2" TX IPR, TX40; 55mm | 715.131940 | |
| 1/2" TX IPR, TX45; 55mm | 715.131945 | |
| 1/2" TX IPR, TX50; 55mm | 715.131950 | |
| 1/2" TX IPR, TX55; 55mm | 715.131955 | |
| 1/2" TX IPR, TX60; 55mm | 715.131960 | |
| 1/4" TX plus, TX4; 25mm | 715.112204 | |
| 1/4" TX plus, TX5; 25mm | 715.112205 | |
| 1/4" TX plus, TX6; 25mm | 715.112206 | |
| 1/4" TX plus, TX7; 25mm | 715.112207 | |
| 1/4" TX plus, TX8; 25mm | 715.112208 | |
| 3/8" TX plus, E10; 37mm | 715.122310 | |
| 3/8" TX plus, E12; 37mm | 715.122312 | |
| 3/8" TX plus, E14; 37mm | 715.122314 | |
| 3/8" TX plus, E16; 37mm | 715.122316 | |
| 1/2" TX plus, E18; 45mm | 715.132418 | |
| 1/2" TX plus, E20; 45mm | 715.132420 | |
| 1/2" TX plus, E22; 45mm | 715.132422 | |
| 1/2" TX plus, E24; 45mm | 715.132424 | |

Individual Articles Available Only Through Special Order.

3/8" + 1/4" SOCKET WRENCH ASSORTMENT



Art. No. 965.905903

3/8" + 1/4" Socket Wrench Set, 91pcs System Assortment 8.4.1

- Number of pieces in assortment/set - 91pc
- Size foam section - 8.4.1
- Width x height x depth - 462 x 38 x 335 mm
- Décor - Carbon appearance

| Description | Art. No. | P. Qty. |
|--|-------------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905903 | |
| 1/4 ratchet with rotary disc reverse 72TEETH-135MM | 712.0140 | |
| 3/8 Ratchet Reverse 72 Teeth - L175mm | 712.0380 | |
| 1/4 inch socket wrench metric hexagon short WS5 | 713.111105 | |
| 1/4 inch socket wrench metric hexagon short WS6 | 713.111106 | |
| 1/4 inch socket wrench metric hexagon short WS7 | 713.111107 | |
| 1/4 inch socket wrench metric hexagon short WS8 | 713.111108 | |
| 1/4 inch socket wrench metric hexagon short WS9 | 713.111109 | |
| 1/4 inch socket wrench metric hexagon short WS10 | 713.111110 | |
| 1/4 inch socket wrench metric hexagon short WS11 | 713.111111 | |
| 1/4 inch socket wrench metric hexagon short WS12 | 713.111112 | |
| 1/4 inch socket wrench metric hexagon short WS13 | 713.111113 | |
| 1/4 inch socket wrench metric hexagon short WS14 | 713.111114 | |
| 1/4 inch socket wrench metric hexagon short WS5.5 | 713.111155 | |
| 1/4 inch socket wrench metric hexagon long-WS6 | 713.112106 | |
| 1/4 inch socket wrench metric hexagon long-WS7 | 713.112107 | |
| 1/4 inch socket wrench metric hexagon long-WS8 | 713.112108 | |
| 1/4 inch socket wrench metric hexagon long-WS9 | 713.112109 | |
| 1/4 inch socket wrench metric hexagon long-WS10 | 713.112110 | |
| 1/4 inch socket wrench metric hexagon long-WS11 | 713.112111 | |
| 1/4 inch socket wrench metric hexagon long-WS12 | 713.112112 | |
| 1/4 inch socket wrench metric hexagon long-WS13 | 713.112113 | |
| 1/4 inch socket wrench metric hexagon long-WS14 | 713.112114 | |
| 1/4" extension 100MM | 713.118104 | 1 |
| 1/4" extension 250MM | 713.118110 | |
| 1/4 inch cardan joint | 713.118301 | |
| 1/4" connector (1/4-3/8IN) | 713.118401 | |
| 3/8 inch socket wrench insert metric-WS8 | 713.121108 | |
| 3/8 inch socket wrench insert metric-WS9 | 713.121109 | |
| 3/8 inch socket wrench insert metric-WS10 | 713.121110 | |
| 3/8 inch socket wrench insert metric-WS11 | 713.121111 | |
| 3/8 inch socket wrench insert metric-WS12 | 713.121112 | |
| 3/8 inch socket wrench insert metric-WS13 | 713.121113 | |
| 3/8 inch socket wrench insert metric-WS14 | 713.121114 | |
| 3/8 inch socket wrench insert metric-WS15 | 713.121115 | |
| 3/8 inch socket wrench insert metric-WS16 | 713.121116 | |
| 3/8 inch socket wrench insert metric-WS17 | 713.121117 | |
| 3/8 inch socket wrench insert metric-WS18 | 713.121118 | |
| 3/8 inch socket wrench insert metric-WS19 | 713.121119 | |
| 3/8 inch socket wrench insert metric-WS21 | 713.121121 | |
| 3/8 inch socket wrench insert metric-WS22 | 713.121122 | |
| 3/8 inch socket wrench-metric-hexagon-long WS8 | 713.122108 | |
| 3/8 inch socket wrench-metric-hexagon-long WS9 | 713.122109 | |
| 3/8 inch socket wrench-metric-hexagon-long WS10 | 713.122110 | |
| 3/8 inch socket wrench-metric-hexagon-long WS11 | 713.122111 | |
| 3/8 inch socket wrench-metric-hexagon-long WS12 | 713.122112 | |

| Description | Art. No. | P. Qty. |
|---|-------------------|---------|
| 3/8 inch socket wrench-metric-hexagon-long WS13 | 713.122113 | |
| 3/8 inch socket wrench-metric-hexagon-long WS14 | 713.122114 | |
| 3/8 inch socket wrench-metric-hexagon-long WS15 | 713.122115 | |
| 3/8 inch socket wrench-metric-hexagon-long WS16 | 713.122116 | |
| 3/8 inch socket wrench-metric-hexagon-long WS17 | 713.122117 | |
| 3/8 inch socket wrench-metric-hexagon-long WS18 | 713.122118 | |
| 3/8 inch socket wrench-metric-hexagon-long WS19 | 713.122119 | |
| 3/8 inch socket wrench-metric-hexagon-long WS21 | 0713122121 | |
| 3/8 inch socket wrench-metric-hexagon-long WS22 | 0713122122 | |
| 3/8 inch extension-L75mm | 0713128103 | |
| 3/8 inch extension-L125mm | 0713128105 | |
| 3/8 inch extension-L250mm | 0713128110 | |
| 3/8" connector (3/8-3/8IN) | 0713128301 | |
| 3/8" connector (3/8-1/4IN) | 713.128401 | |
| 1/4 inch angled extension - 75mm | 07151140 | |
| 1/4 inch socket wrench external TX-1/4IN-EXTX-E4 | 071511204 | |
| 1/4 inch socket wrench external TX-1/4IN-EXTX-E5 | 071511205 | |
| 1/4 inch socket wrench external TX-1/4IN-EXTX-E6 | 071511206 | |
| 1/4 inch socket wrench external TX-1/4IN-EXTX-E7 | 071511207 | |
| 1/4 inch socket wrench external TX-1/4IN-EXTX-E8 | 071511208 | |
| 1/4 inch socket wrench external TX-1/4IN-EXTX-E10 | 071511210 | |
| 1/4 inch socket wrench external TX-1/4IN-EXTX-E11 | 071511211 | |
| 1/4 inch TX socket wrench TX8 | 071511308 | 1 |
| 1/4 inch TX socket wrench TX9 | 071511309 | |
| 1/4 inch TX socket wrench TX10 | 715.11310 | |
| 1/4 inch TX socket wrench TX15 | 715.11315 | |
| 1/4 inch TX socket wrench TX20 | 715.11320 | |
| 1/4 inch TX socket wrench TX25 | 715.11325 | |
| 1/4 inch TX socket wrench TX30 | 715.11330 | |
| 1/4 inch TX socket wrench TX40 | 715.11340 | |
| 3/8 inch socket wrench external TX short-EXTX-E5 | 715.12205 | |
| 3/8 inch socket wrench external TX short-EXTX-E6 | 715.12206 | |
| 3/8 inch socket wrench external TX short-EXTX-E7 | 715.12207 | |
| 3/8 inch socket wrench external TX short-EXTX-E8 | 715.12208 | |
| 3/8 inch socket wrench external TX short-EXTX-E10 | 715.12210 | |
| 3/8 inch socket wrench external TX short-EXTX-E11 | 715.12211 | |
| 3/8 inch socket wrench external TX short-EXTX-E12 | 071512212 | |
| 3/8 inch socket wrench external TX short-EXTX-E14 | 715.12214 | |
| 3/8 inch socket wrench Torx-TX15 | 715.12315 | |
| 3/8 inch socket wrench Torx-TX20 | 715.12320 | |
| 3/8 inch socket wrench Torx -TX25 | 715.12325 | |
| 3/8 inch socket wrench Torx-TX27 | 715.12327 | |
| 3/8 inch socket wrench Torx-TX30 | 715.12330 | |
| 3/8 inch socket wrench Torx-TX40 | 715.12340 | |
| 3/8 inch socket wrench Torx-TX45 | 715.12345 | |
| 3/8 inch socket wrench Torx-TX50 | 715.12350 | |

Item Only Available by Special Order

1/4" + 1/2" SOCKET WRENCH ASSORTMENT



Art. No. 965.905922

1/4" + 1/2" Socket Wrench Set, 109pc System Assortment 8.4.1

- Number of pieces in assortment/set - 109pc
- Size foam section - 8.4.1
- Width x height x depth - 462 x 38 x 335 mm
- Décor - Carbon appearance

| Description | Art. No. | P. Qty. |
|--|-------------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905922 | 1 |
| Screwdriver 1/4 inch continuous blade L225MM | 613.430310 | |
| 1/2 reversible ratchet wrench reverse 72TEETH-250 | 712.0120 | |
| 1/4 ratchet with rotary disc reverse 72TEETH-135MM | 712.0140 | |
| T-handle 1/2 inch | 712.130201 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS10" | 712.131110 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS11" | 712.131111 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS12" | 712.131112 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS13" | 712.131113 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS14" | 712.131114 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS15" | 712.131115 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS16" | 712.131116 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS17" | 712.131117 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS18" | 712.131118 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS19" | 712.131119 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS20" | 712.131120 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS21" | 712.131121 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS22" | 712.131122 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS24" | 712.131124 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS26" | 712.131126 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS27" | 712.131127 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS28" | 712.131128 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS30" | 712.131130 | |
| "1/2" socket wrench hexagon short SHORT-HEX-WS32" | 712.131132 | |
| 1/2" angled extension L125MM | 712.138105 | |
| 1/2" extension L250MM | 712.138110 | |
| 1/2" angled extension L457MM | 712.138118 | |
| 1/2 inch cardan joint | 712.138301 | |
| T-handle 1/4 inch L115mm | 0713110201 | |
| 1/4 inch socket wrench metric hexagon short WS5 | 713.111105 | |
| 1/4 inch socket wrench metric hexagon short WS6 | 713.111106 | |
| 1/4 inch socket wrench metric hexagon short WS7 | 713.111107 | |
| 1/4 inch socket wrench metric hexagon short WS8 | 713.111108 | |
| 1/4 inch socket wrench metric hexagon short WS9 | 713.111109 | |
| 1/4 inch socket wrench metric hexagon short WS10 | 713.111110 | |
| 1/4 inch socket wrench metric hexagon short WS11 | 713.111111 | |
| 1/4 inch socket wrench metric hexagon short WS12 | 713.111112 | |
| 1/4 inch socket wrench metric hexagon short WS13 | 713.111113 | |
| 1/4 inch socket wrench metric hexagon short WS14 | 713.111114 | |
| 1/4 inch socket wrench metric hexagon short WS5.5 | 713.111155 | |
| 1/4 inch socket wrench metric hexagon long-WS6 | 713.112106 | |
| 1/4 inch socket wrench metric hexagon long-WS7 | 713.112107 | |
| 1/4 inch socket wrench metric hexagon long-WS8 | 713.112108 | |
| 1/4 inch socket wrench metric hexagon long-WS9 | 713.112109 | 1 |
| 1/4 inch socket wrench metric hexagon long-WS10 | 713.112110 | |
| 1/4 inch socket wrench metric hexagon long-WS11 | 713.112111 | |
| 1/4 inch socket wrench metric hexagon long-WS12 | 713.112112 | |
| 1/4 inch socket wrench metric hexagon long-WS13 | 713.112113 | |
| 1/4 inch socket wrench metric hexagon long-WS14 | 713.112114 | |

| Description | Art. No. | P. Qty. |
|---|-------------------|---------|
| 1/4" extension 100MM | 713.118104 | |
| 1/4" extension 250MM | 713.118110 | |
| 1/4 inch cardan joint | 713.118301 | |
| 1/4" connector (1/4-3/8IN) | 713.118401 | |
| 1/4" adapter with quick-change chuck 4PT | 715.1101 | |
| 1/4 inch angled extension L75mm | 07151140 | |
| 1/4 inch socket wrench external TX-E4 | 071511204 | |
| 1/4 inch socket wrench external TX-E5 | 071511205 | |
| 1/4 inch socket wrench external TX-E6 | 071511206 | |
| 1/4 inch socket wrench external TX-E7 | 071511207 | |
| 1/4 inch socket wrench external TX-E8 | 071511208 | |
| 1/4 inch socket wrench external TX-E10 | 071511210 | |
| 1/4 inch socket wrench external TX-E11 | 071511211 | |
| 1/4 inch TX socket wrench TX8 | 071511308 | |
| 1/4 inch TX socket wrench TX9 | 071511309 | |
| 1/4 inch TX socket wrench TX10 | 715.11310 | |
| 1/4 inch TX socket wrench TX15 | 715.11315 | |
| 1/4 inch TX socket wrench TX20 | 715.11320 | |
| 1/4 inch TX socket wrench TX25 | 715.11325 | |
| 1/4 inch TX socket wrench TX30 | 715.11330 | |
| 1/4 inch TX socket wrench TX40 | 715.11340 | |
| 1/4 inch socket wrench hexagon socket WS3 | 715.11503 | |
| 1/4 inch socket wrench hexagon socket WS4 | 715.11504 | |
| 1/4 inch socket wrench hexagon socket WS5 | 715.11505 | |
| 1/4 inch socket wrench hexagon socket WS6 | 715.11506 | |
| 1/4 inch socket wrench hexagon socket WS8 | 715.11508 | |
| 1/4 inch socket wrench slotted 3.5X0.6 | 715.11735 | |
| 1/4 inch socket wrench slotted 5.5X1.0 | 715.11755 | |
| 1/4 inch socket wrench slotted 6.5X1.2 | 715.11765 | |
| 1/4 inch socket wrench slotted 8.0X1.2 | 715.11780 | |
| 1/4 inch PH socket wrench H1 | 715.11801 | |
| 1/4 inch PH socket wrench H2 | 715.11802 | |
| 1/4 inch PH socket wrench H3 | 715.11803 | |
| 1/2 inch socket wrench external TX short-E10 | 071513210 | |
| 1/2 inch socket wrench external TX short-E11 | 071513211 | |
| 1/2 inch socket wrench external TX short-E12 | 071513212 | |
| 1/2 inch socket wrench external TX short-E14 | 071513214 | |
| 1/2 inch socket wrench external TX short-E16 | 071513216 | |
| 1/2 inch socket wrench external TX short-E18 | 071513218 | |
| 1/2 inch socket wrench external TX short-E20 | 071513220 | |
| 1/2 inch socket wrench external TX short-E24 | 071513224 | |
| "1/2" TX socket wrench short 1/2IN-INTX-TX20" | 715.13320 | |
| "1/2" TX socket wrench short 1/2IN-INTX-TX25" | 715.13325 | |
| "1/2" TX socket wrench short 1/2IN-INTX-TX27" | 715.13327 | |
| "1/2" TX socket wrench short 1/2IN-INTX-TX30" | 715.13330 | |
| "1/2" TX socket wrench short 1/2IN-INTX-TX40" | 715.13340 | |
| "1/2" TX socket wrench short 1/2IN-INTX-TX45" | 715.13345 | |
| "1/2" TX socket wrench short 1/2IN-INTX-TX50" | 715.13350 | |
| "1/2" TX socket wrench short 1/2IN-INTX-TX55" | 715.13355 | 1 |
| "1/2" TX socket wrench short 1/2IN-INTX-TX60" | 715.13360 | |
| 1/2 inch socket wrench metric hex WS4-60MM | 715.137040 | |
| 1/2 inch socket wrench metric hex WS5-60MM | 715.137051 | |
| 1/2 inch socket wrench metric hex WS6-60MM | 715.137060 | |
| 1/2 inch socket wrench metric hex WS7-60MM | 715.13707 | |
| 1/2 inch socket wrench metric hex WS8-60MM | 715.137080 | |
| 1/2 inch socket wrench metric hex WS9-60MM | 071513709 | 1 |
| 1/2 inch socket wrench metric hex WS10-60MM | 715.137100 | |
| 1/2 inch socket wrench metric hex WS12-60MM | 715.137120 | |
| 1/2 inch socket wrench metric hex WS14-60MM | 715.13714 | |
| 1/2 inch socket wrench metric hex WS17-60MM | 715.13717 | |
| 1/2 inch socket wrench metric hex WS19-60MM | 071513719 | |

HAND TOOL KIT – 91 PCS



**PERFECT
for mobile
operations!**

Art. No. 965.93120

Würth's main goal is to offer high quality products and innovative solutions to simplify the day-to-day operations of our clients. Ease of use and high quality have been behind the success of Zebra hand tools for many years. They offer good economy for optimal service life even in the harshest conditions.

This kit offers everything with all the metric tools you need in your daily work. Perfect for mobile operations.

423 x 360 x 86 mm



| Description | Art. No. |
|---|---------------------------------|
| Combination spanner, 11 pieces: 8, 9, 10, 11, 12, 13, 14, 16, 17, 19, 22 mm | 713.30108 to 713.30122 |
| Combination pliers 180 mm | 715.01575 |
| Hammer, 400 g | 715.73140 |
| Water Pump Pliers, 250 mm | 714.0271 |
| Voltage tester 3.0 mm, 150 - 250 Volt | 715.5305 |
| 1/4" Ratchet 135 mm | 712.0140 |
| 1/4" Cardan Joint | 713.118301 |
| 1/4" Extension 50 + 100 mm | 713.118102/104 |
| 1/4" Socket Wrench Insert, 12 parts: 4; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm | 713.111104 to 713.111114 |
| 1/2" Ratchet 250 mm | 712.0120 |
| 1/2" Cardan Joint | 712.138301 |
| 1/2" Extension 125, 250 mm | 712.138105/110 |
| 1/2" Socket Wrench Insert, 19 pieces: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32 mm | 712.131110 to 712.131132 |
| Screwdriver 1/4" drive | 613.430310 |
| Flat Screwdriver, 0.6 x 3.5 x 100 mm | 613.231735 |
| Flat Screwdriver, 1.2 x 6.5 x 150 mm | 613.231065 |
| Phillips Screwdriver PH 1 | 613.23201 |
| Phillips Screwdriver PH 2 | 613.23202 |
| 1/4" Bit Adapter | 614.176680 |
| Bit Assortment, 30 pieces: 1 x AW 10, 25, 30 / Internal Hex. 3,4,5 mm / TX 15, 40 • 1 x Slot 4.5 x 0.6; 5.5 x 0.8; 6.5 x 1.2 mm • 2 x AW 20 / PH1, 2 / PZ1 / TX 10, 20, 25, 30 • 3 x PZ 2 | 614 prefix |
| Bit Holder, 51 mm | 614.176711 |

Note: Articles in red are special orders only



COMBINATION PLIERS



Try the
"Paper Test"



2K grip for gripping, holding and cutting hard and soft wires and cables

- DIN ISO 5746
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Burner port for gripping round materials
- Surface: Entirely ground and chrome-plated
- Joint: Lap joint

| Length (in.) | Length (mm) | Medium-hard wire | Hard wire | Copper and aluminum cable | Art. No. | P. Qty. |
|--------------|-------------|------------------|-----------------|---------------------------|------------------|---------|
| 6 1/2" | 170 | 3.1 mm diameter | 2.0 mm diameter | 10.0 mm diameter | 714.01554 | 1 |
| 7" | 180 | 3.4 mm diameter | 2.2 mm diameter | 12.0 mm diameter | 714.01555 | |
| 8" | 200 | 3.8 mm diameter | 2.5 mm diameter | 13.0 mm diameter | 714.01556 | |

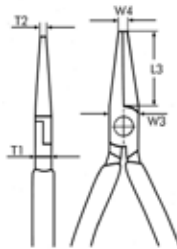


PVC double dipped

- DIN ISO 5746
- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Blades: Additional inductive hardening
- Surface: Entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped
- Joint: Lap joint

| Length (in.) | Length (mm) | Medium-hard wire | Hard wire | Art. No. | P. Qty. |
|--------------|-------------|------------------|-----------------|------------------|---------|
| 7" | 180 | 2.8 mm diameter | 2.5 mm diameter | 715.01575 | 1 |

NEEDLE NOSE PLIERS



2K grip for gripping, holding and cutting soft and hard wires and cables

- DIN ISO 5745
- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Elastic tips for high stresses, especially under bending forces
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Blades: Additional inductive hardening
- Surface: Entirely ground and chrome-plated
- Gripping surfaces: Toothed
- Joint: Lap joint

| Length (mm) | Tip geometry | Jaw shape | L3 (mm) | W3 (mm) | T1 (mm) | W4 (mm) | T2 (mm) | Art. No. | P. Qty. |
|-------------|--------------|-----------|---------|---------|---------|---------|---------|-----------|---------|
| 210 | | | 76 | 17.5 | 9.5 | 4 | 3 | 714.01557 | 1 |
| | | | 72 | | | | | 714.01558 | |
| 160 | | | 50 | 16.5 | 9 | 3 | 2.5 | 714.01559 | |
| | | | 46 | | | | | 714.01562 | |



PVC double dipped

- DIN ISO 5745
- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Blades: Additional inductive hardening
- Surface: Entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped
- Joint: Lap joint

| Length (mm) | Jaws length (mm) | Jaws width (mm) | Jaws thickness (mm) | Art. No. | P. Qty. |
|-------------|------------------|-----------------|---------------------|-----------|---------|
| 200 | 77 | 20 | 11 | 715.01568 | 1 |

SIDE CUTTERS



2K grip for cutting hard and soft wires and cables, including in hard-to-reach places

- DIN ISO 5749
- Strength-saving, clean cutting thanks to milled precision cutting edge
- High-quality tool steel ensures long service life and precision of blades
- Slim head shape for optimum accessibility
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Surface entirely ground and chrome-plated
- Lap joint

| Length (in.) | Length (mm) | Soft wire | Medium-hard wire | Hard wire | Art. No. | P. Qty. |
|--------------|-------------|-----------------|------------------|-----------------|------------------|---------|
| 5 1/2" | 140 | 4.0 mm diameter | 2.5 mm diameter | 1.8 mm diameter | 714.01566 | 1 |
| 6 1/4" | 160 | | 2.8 mm diameter | 2.0 mm diameter | 714.01567 | |
| 7" | 180 | | 3.0 mm diameter | 2.5 mm diameter | 714.01568 | |



PVC double dipped

- DIN ISO 5749
- Strength-saving, clean cutting due to specially-milled precision cutting edge
- High-quality tool steel ensures long service life and precision of blades
- Inductively hardened
- Surface entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped

| Length (in.) | Length (mm) | Medium-hard wire | Hard wire | Piano wire | Art. No. | P. Qty. |
|--------------|-------------|------------------|-----------------|-----------------|------------------|---------|
| 7" | 180 | 3.8 mm diameter | 2.7 mm diameter | 2.2 mm diameter | 715.01572 | 1 |

POWER SIDE CUTTERS



2K grip for cutting piano wire, hard and soft wire

- DIN ISO 5749
- Strength-saving, clean cutting thanks to milled precision cutting edge
- High-quality tool steel ensures long service life and precision of blades, even under maximum loads
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Surface: Entirely ground and chrome-plated
- Joint: Lap joint, forged on rivets

| Length (in.) | Length (mm) | Soft wire | Medium-hard wire | Hard wire | Piano wire | Art. No. | P. Qty. |
|--------------|-------------|-----------------|------------------|-----------------|-----------------|------------------|---------|
| 5 1/2" | 140 | 4.0 mm diameter | 3.1 mm diameter | 2.0 mm diameter | 1.5 mm diameter | 714.01551 | 1 |
| 6 1/4" | 160 | | 3.4 mm diameter | 2.5 mm diameter | 2.0 mm diameter | 714.01552 | |
| 7" | 180 | | 3.8 mm diameter | 2.7 mm diameter | 2.2 mm diameter | 714.01553 | |
| 8" | 200 | 4.5 mm diameter | 4.2 mm diameter | 3.0 mm diameter | 2.5 mm diameter | 714.01598 | |

HEAVY-DUTY SIDE CUTTERS, REVERSIBLE



By pressing the power button, you get twice the cutting power!

2 tools in one: Side cutters with connectible lever transmission

- High cutting power also allows you to cut thick cables
- Avoids hard cutting impact like with experienced with conventional side cutters
- Precision cutting has a long service life
- High-grade steel
- Safe handling
- Ergonomic 2K plastic handle with non-slip surface
- Material: Steel
- Surface: Chrome-plated
- Joint: launched



2 in 1!

Side cutters with connectible lever transmission

| Length (in.) | Length (mm) | Soft wire | Medium-hard wire | Hard wire | Piano wire | Art. No. | P. Qty. |
|--------------|-------------|---------------|------------------|-----------------|---------------|------------------|---------|
| 8" | 200 | 5 mm diameter | 4.5 mm diameter | 3.5 mm diameter | 3 mm diameter | 714.01599 | 1 |

- Soft wire
- Medium-hard wire
- Hard wire
- Piano wire

WIRE STRIPPING PLIERS



2K grip, precise, effortless stripping of cables and wires with plastic or rubber insulation

- High-quality tool steel
- Long service life and precision of cutting surfaces.
- For single, multi and fine-wire conductors
- Opening spring opens pliers automatically
- Ergonomic and non-slip 2K comfort handle with narrow collar profile
- Comfortable working and optimum power transmission.
- Adjustment screw can be fixed in place with knurled nut
- Surface: entirely ground and chrome-plated
- Joint: Lap joint

| Length (mm) | Diameter (mm) | (mm) ² | Art. No. | P. Qty. |
|-------------|---------------|-------------------|------------------|---------|
| 160 | 5 | 10 | 714.01550 | 1 |

PVC double dipped

- DIN ISO 5743
- Integrated opening spring opens pliers automatically
- High-quality tool steel
- Long service life and precision cutting surfaces.
- Adjustment screw: Knurled locking nut
- Surface: Completely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped
- Joint: Lap joint



| Length (mm) | Dia. (mm) | mm ² | Art. No. | P. Qty. |
|-------------|-----------|-----------------|------------------|---------|
| 160 | 5.0 | <10 | 715.01577 | 1 |

END CUTTING PLIER NIPPERS



- DIN ISO 5748
- Strength-saving, clean cuts with specially-milled precision cutting edge
- High-quality tool steel ensures long tool life and precision of cutting surfaces
- Blades: Additional inductive hardening
- Surface: Entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped
- Joint: lap joint

| Length (mm) | Jaws width (closed) (mm) | Jaws length (mm) | Cutting edge length (mm) | Dia. (mm) | Dia. (mm) | Dia. (mm) | Art. No. | P. Qty. |
|-------------|--------------------------|------------------|--------------------------|-----------|-----------|-----------|-----------|---------|
| 160 | 30 | 9 | 25 | 3.5 | 2.5 | 2.2 | 715.01578 | 1 |

MINI SNIPPERS



714.07543

2k Mini Fine-cutters for precision work

Features:

- 2-component handle for easy comfortable grip
- Joint made with quality stainless steel riveting
- Opening spring design for ease of use
- Non-chamfered cutting and sharp flush cutting
- Standard: DIN ISO 9654

| Art. No. | 714.07542 | 714.07543 | 714.07544 |
|---|---------------------------|----------------------------------|--------------|
| Length | 125 mm | 125 mm | 125 mm |
| Jaws width | 12.5 mm | 12.5 mm | 13.5 mm |
| Cutting edge length | 9 mm | 9 mm | 9 mm |
| Jaws thickness | 7.5 mm | 7.5 mm | 7.5 mm |
| Min./max. soft wire diameter cutting capacity | 0.2 - 1.0 mm | 0.2 - 1.0 mm | 0.2 - 1.6 mm |
| Max. medium wire diameter cutting capacity | Recommended for soft wire | Recommended for soft wire | 1.2 mm |
| Material | Steel | Steel | Steel |
| Version | Narrow head | Narrow head with eccentric clamp | Narrow head |
| Surface | Polished | Polished | Polished |

DOUBLE-JOINTED NEEDLE NOSE PLIERS SET



Art. No. 715.02600 - P. Qty. 1

For working on especially hard-to-reach places, 3-piece.

Passage in very narrow areas
Extremely slim design

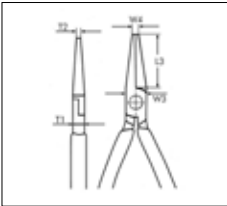
Wide opening of pliers with minimal handle movement
Special double joint

Optimum corrosion protection
Matt chrome-plated design

Anti-slip PVC handle sleeves

Area of application:

- Gripping and removing objects in narrow machinery areas
- Service, repair and maintenance on engines and machinery
- Installation and removal of cables, pipe and plug connections



| L (mm) | L (in) | | Design | L3 (mm) | T1 (mm) | T2 (mm) | W3 (mm) | W4 (mm) | Art. No. | P. Qty |
|--------|--------|--|------------|---------|---------|---------|---------|---------|----------|--------|
| 340 | 13 1/2 | | straight | 70 | 10 | 3 | 17 | 4.5 | 715.0261 | 1 |
| 330 | 13 | | angled 40° | 65 | | 3 | | 4.5 | 715.0262 | |
| 300 | 12 | | straight | 32 | | 10 | | 6 | 715.0263 | |

Currently only available as a set. Individual items are special order.

HOSE PINCHING PLIERS



Art. No. 714.601931 - P. Qty. 3



For flexible hoses and Lines

Area of application:

- For quick pinching off of water hoses, oil and gasoline lines
- The locking mechanism holds the pliers in the desired clamping position
- Rounded pinching jaws prevent unwanted damage to lines.
- Made from glass fiber reinforced plastic in bright red colour.
- Heat resistant reinforced nylon construction

| Application | Pinching range (mm) | Length of pinching jaws (mm) | Overall length (mm) | Art. No. | P. Qty |
|------------------------|---------------------|------------------------------|---------------------|------------|--------|
| Gasoline and oil lines | Ø 5-14 | 20 | 155 | 714.601912 | 1 |
| Water hoses | Ø 13-19 | 38 | 185 | 714.601919 | |
| Water hoses | Ø 19-57 | 78 | 250 | 714.601956 | |

Currently only available as a set. Individual items are special order.

CONCRETE PLIERS

- DIN 5242



| Length (in.) | Length (mm) | Type | Surface | Art. No. | P. Qty. |
|--------------|-------------|---------------|------------|----------|---------|
| 5" | 200 | Polished head | Phosphated | 715.0204 | 1 |
| 8 1/2" | 220 | | | 715.0205 | |
| 10" | 250 | | | 715.0206 | |
| 11" | 280 | | | 715.0207 | |

COMPACT BOLT CUTTERS



- For cutting hardened steel wires
- Comfortable grip
- Inductively hardened precision cutting edges
- Lever transfer for high performance cutting with less effort
- Chrome vanadium electric steel is oil-hardened and tempered for heavy-duty use
- Forged steel construction offers lasting durability

| Length (mm) | Length (in) | Weight (g) | Soft wire | Medium wire | Hard wire | Piano wire | Art. No. | P. Qty. |
|-------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|----------|---------|
| 200 | 8" | 350 | 6.0 mm diameter | 5.2 mm diameter | 4.0 mm diameter | 3.6 mm diameter | 715.0601 | 1 |

COMPACT BOLT TRIMMER



- For cutting off and removing bolts pins, nails and wires
- Comfortable grip
- Inductively hardened precision cutting edges
- Lever transfer for high performance cutting with less effort
- Chrome vanadium electric steel is oil-hardened and tempered for heavy-duty use
- Forged steel construction offers lasting durability

| Length (mm) | Length (in) | Weight (g) | Soft wire | Medium wire | Hard wire | Piano wire | Art. No. | P. Qty. |
|-------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|-----------|---------|
| 200 | 8" | 440 | 6.0 mm diameter | 4.0 mm diameter | 3.5 mm diameter | 3.0 mm diameter | 715.06021 | 1 |

WATER PUMP PLIERS



2K grip, self-clamping water pump pliers with push button adjustment

- DIN ISO 8976
- Rapid and convenient fine adjustment at the push of a button, directly on the workpiece
- Hardened precision teeth
- High wear resistance and secure grip
- Ergonomic and non-slip 2K comfort handle with narrow collar profile
- Comfortable working and optimum power transmission
- Huge gripping capacity yet slim design

| Length (mm) | Min./Max. Grip Range | Art. No. | P. Qty. |
|-------------|----------------------|-----------|---------|
| 250 | 16 - 46 mm | 714.01563 | 1 |

ANGLED COMBI PLIERS



Art. No. 714.01591 P. Qty: 1

A multi-functional plier that allows many applications in countless fields!

Features:

- Ergonomic and relaxed position of the hand.
- 2K handle for a better comfort.
- Convenient use when pulling objects.
- Grooves to get a grip of objects, e.g. nails
- Securing workpieces
- Gripping pipes
- Form-fit clamping of screw-driving parts
- Cutting cables and wires
- Length: 200 mm

Soft Wire: 5.9 mm
Hard Wire: 2.5 mm
Aluminum and Copper cables: 13 mm

ANGLED FLAT ROUND PLIERS



Art. No. 714.01592 P. Qty: 1

A nose tip plier for those hard to reach areas!

Features:

- Ergonomic and relaxed position of the hand.
- 2K handle for a better comfort.
- Convenient use when pulling objects.
- Cutting cables and wires
- Insulating conductors
- Gripping, securing and bending
- Crimping wire-end sleeves (low voltage)
- Length: 210 mm

Soft Wire: 5.9 mm
Hard Wire: 2.5 mm
Aluminum and Copper cables: 13 mm



PLIERS ASSORTMENT



Art. No. 965.905600

Pliers Set, 4pc System Assortment 4.4.1

- Number of pieces in assortment/set - 4pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

| Description | Art. No. | P. Qty. |
|---|------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905600 | |
| Power side cutters DIN ISO 5749 160mm | 714.01552 | |
| ZEBRA combination pliers DIN ISO 5746 L180MM | 714.01555 | 1 |
| ZEBRA needle nose pliers Straight-L210MM | 714.01557 | |
| Water pump pliers push button adj 2C handle 250MM | 714.01563 | |

Item Only Available by Special Order



Side cutters:
160 mm



Combination pliers:
180 mm



Needle nose pliers:
210 mm



Water pump pliers:
250 mm

PLIER SETS



Art. No. 714.01565 4 pcs.

2K grip, set of combination pliers, water pump pliers, needle nose pliers and heavy-duty side cutters

- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Combination pliers with extra-long blade also suitable for thicker cables
- Water pump pliers with convenient

quick-adjustment

- Needle nose pliers with tips for high bending stresses
- Power side cutters for piano wire, hard and soft wire
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer

| Contents | Length (mm) | Art. No. | P. Qty. |
|--------------------|-------------|------------------|---------|
| Combination Pliers | 180 | 714.01555 | 1 |
| Water Pump Pliers | 250 | 714.01563 | |
| Needle Nose Pliers | 210 | 714.01557 | |
| Power Side Cutters | 160 | 714.01552 | |



Art. No. 714.01560 4 pcs.

2K grip, set of combination pliers, stripping pliers, needle nose pliers and power side cutters

- High-quality tool steel ensures long service life and precision of gripping and cutting surfaces
- Combination pliers with extra-long blade also suitable for thicker cables
- Wire stripping pliers with opening

spring for automatic opening

- Needle nose pliers with tips for high bending stresses
- Heavy-duty side cutters for piano wire, hard and soft wire
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer

| Contents | Length (mm) | Art. No. | P. Qty. |
|-----------------------|-------------|------------------|---------|
| Combination Pliers | 180 | 714.01555 | 1 |
| Wire Stripping Pliers | 160 | 714.01550 | |
| Needle Nose Pliers | 210 | 714.01557 | |
| Power Side Cutters | 160 | 714.01552 | |



Art. No. 715.01560 5 pcs.

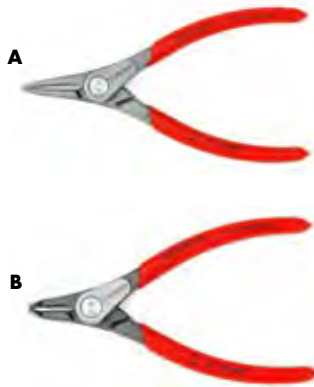
PVC double dipped, set of needle nose pliers, side cutter pliers, combination pliers, insulation stripping pliers, cutting pliers

Description:

- All the pliers you need in your daily work in one set. Perfect for all applications and industries.
- Handles with textured surface for comfort and an anti-slip grip.

| Description | Length (mm) | Art. No. | P. Qty. |
|-----------------------------|-------------|------------------|---------|
| Needle Nose Pliers | 200 | 715.01568 | 1 |
| Side Cutter Pliers | 180 | 715.01572 | |
| Combination Pliers | 180 | 715.01575 | |
| Insulation Stripping Pliers | 160 | 715.01577 | |
| Cutting Pliers | 160 | 715.01578 | |

CIRCLIP PLIERS TYPE A/B



For shaft locking rings

Standard: DIN 5254

Handle: Plastic-coated

- Guarantees a secure grip, prevents slippage

Tip from compressed spring steel

- Optimised stability, even with seized rings.

Inserted tips

- Offers maximum strength when loosening seized rings and allows rings to be installed with minimal distortion.

Screwed and mounted joint

- High precision and optimised movement.

Large locating faces

- Rings mounted without torsion.

Pliers head

- Narrow design for optimum access to workpiece, including in hard-to-reach spots.

Internal spring

- Inside screwed joint for protection
- Does not obstruct work
- Cannot be soiled or lost

| Length (mm) | DIN 5254 Form | Min./Max. grip range | Tenon diameter (mm) | Jaws length (mm) | Hook length (mm) | Art. No. | P. Qty. |
|-------------|---------------|----------------------|---------------------|------------------|------------------|----------|---------|
| 140 | | 3 - 10 | 0.9 | 39 | - | 714.0211 | 1 |
| 180 | | 10 - 25 | 1.25 | 38 | | 714.0212 | |
| 225 | | 19 - 60 | 1.8 | 56 | | 714.0213 | |
| 320 | | 40 - 100 | 2.25 | 70 | | 714.0214 | |
| | | 85 - 140 | 3.2 | 92 | | 714.0215 | |
| 130 | | 3 - 10 | 0.9 | 27 | 12 | 714.0216 | |
| 165 | | 10 - 25 | 1.25 | 40 | 15 | 714.0217 | |
| 210 | | 19 - 60 | 1.8 | 55 | 16 | 714.0218 | |
| 305 | | 40 - 100 | 2.25 | 73 | 20 | 714.0219 | |
| | | 85 - 140 | 3.2 | | | 714.0220 | |

CIRCLIP PLIERS SHAPE C/D



For bore circlips

Standard: DIN 5256

Handle: Plastic-coated

- Guarantees a secure grip, prevents slippage

Tip from compressed spring steel

- Optimised stability, even with seized rings

Inserted tips

- Offers maximum strength when loosening seized rings and allows rings to be installed with minimal distortion.

Screwed and mounted joint

- High precision and optimised movement.

Large locating faces

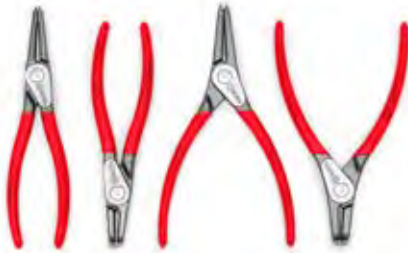
- Rings mounted without torsion.

Pliers head

- Narrow design for optimum access to workpiece, including in hard-to-reach spots.

| Length (mm) | DIN 5256 Form | Min./Max. grip range | Tenon diameter (mm) | Jaws length (mm) | Hook length (mm) | Art. No. | P. Qty. |
|-------------|---------------|----------------------|---------------------|------------------|------------------|----------|---------|
| 140 | | 8 - 13 | 0.9 | 39 | - | 714.0201 | 1 |
| 180 | | 12 - 25 | 1.25 | 38 | | 714.0202 | |
| 225 | | 19 - 60 | 1.8 | 54 | | 714.0203 | |
| 320 | | 40 - 100 | 2.25 | 65 | | 714.0204 | |
| | | 85 - 140 | 3.2 | 91 | | 714.0205 | |
| 130 | | 8 - 13 | 0.9 | 26 | 12 | 714.0206 | |
| 165 | | 12 - 25 | 1.25 | 40 | 14 | 714.0207 | |
| 210 | | 19 - 60 | 1.8 | 49 | 16 | 714.0208 | |
| 305 | | 40 - 100 | 2.25 | 73 | 20 | 714.0209 | |
| | | 85 - 140 | 3.2 | | | 714.0210 | |

CIRCLIP PLIERS SET



Art. No. 714.0230 4 pcs.

4-piece set

Handle: Plastic-coated

- Guarantees a secure grip, prevents slippage

Tip from compressed spring steel

- Optimised stability, even with seized rings.

Inserted tips

- Offers maximum strength when loosening seized rings and allows rings to be installed with minimal distortion.

Screwed and mounted joint

- High precision and optimised movement.

Large locating faces

- Rings mounted without torsion.

Pliers head

- Narrow design for optimum access to workpiece, including in hard-to-reach spots.

Contents:

- 1 circlip pliers, Form A, 19 - 60 mm
- 1 circlip pliers, Form B, 19 - 60 mm
- 1 circlip pliers, Form C, 19 - 60 mm
- 1 circlip pliers, Form D, 19 - 60 mm

| Designation | Art. No. | Designation | Art. No. | P. Qty. |
|--------------------|-----------------|--------------------|-----------------|---------|
| Form C, 19 - 60 mm | 714.0203 | Form A, 19 - 60 mm | 714.0213 | 1 |
| Form D, 19 - 60 mm | 714.0208 | Form B, 19 - 60 mm | 714.0218 | |

CIRCLIP PLIERS ASSORTMENT



Art. No. 965.905602

Circlip Pliers Set, 4pc System Assortment 4.4.1

- Number of pieces in assortment/set - 4pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

| Description | Art. No. | P. Qty. |
|--|-------------------|---------|
| System insert 4.4.1, combination wrench empty | 0955905602 | 1 |
| DIN 5256 shape C bore circlips (19-60MM) | 714.0203 | |
| DIN 5256 shape D bore circlips (19-60MM) | 714.0208 | |
| DIN 5254 shape A shaft locking rings (19-60MM) | 714.0213 | |
| DIN 5254 shape B shaft locking rings (19-60MM) | 714.0218 | |

Item Only Available by Special Order



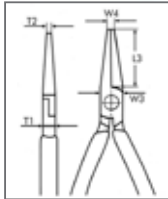
Form A

Form B

Form C

Form D

INSULATED NEEDLE NOSE PLIERS



For gripping, holding, and cutting soft and hard wires and cables

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC)
- High-quality tool steel ensures long tool life on tips and cutting surfaces
- Tips design for use on heavy high loads
- Ergonomic, non-slip, two-component comfort handle with wide insulated collar for secure working

IEC 60900 Compliant

Cutting edges: With additional inductive hardening

Surface: Ground and chrome-plated all around

Grip surfaces: Toothed

Joint: Designed for accurate guide and leverage



| Length (mm) | Length (in) | Tip geometry | Jaw shape | L3 (mm) | W3 (mm) | T1 (mm) | W4 (mm) | T2 (mm) | Art. No. | P. Qty. |
|-------------|-------------|--------------|-----------|---------|---------|---------|---------|---------|-----------|---------|
| 210 | 8 1/4" | | | 74 | 17.5 | 9.5 | 3 | 2.5 | 714.01577 | 1 |

INSULATED WIRE STRIPPING PLIERS



Precise and effortless stripping of cables and wires with plastic or rubber insulation

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC)
- High-quality tool steel ensures long tool life and precision
- Automatic opening of the pliers by use of an opening spring
- Ergonomic, non-slip, two-component comfort handle with wide insulated collar for secure working

IEC 60900 Compliant

Adjustment screw: With knurled locking nut

Surface: Ground and chrome-plated all around

Joint: Designed for accurate guide and leverage



| Length (mm) | Length (in) | Diameter (mm) | Max. wire cross section (mm) ² | Art. No. | P. Qty. |
|-------------|-------------|---------------|---|-----------|---------|
| 160 | 6 1/4" | 5.0 | 10 | 714.01570 | 1 |

INSULATED COMBINATION PLIERS



For gripping, holding, and cutting hard and soft wire and cable

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC)
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Extra-long cutting edge allows for thicker cables
- Ergonomic, non-slip, two-component comfort handle with wide insulated collar for secure working

IEC 60900 Compliant

Cutting edges: Inductively-hardened precision cutting edges

Torch hole: For gripping of round materials

Surface: Ground and chrome-plated all around

Joint: Designed for accurate guide and leverage



| Length (mm) | Length (in) | Medium-hard wire | Hard wire | Copper and aluminum cable | Art. No. | P. Qty. |
|-------------|-------------|------------------|-----------------|---------------------------|-----------|---------|
| 180 | 7" | 3.4 mm diameter | 2.2 mm diameter | 12.0 mm diameter | 714.01575 | 1 |

INSULATED SIDE CUTTERS



For cutting hard and soft wires and cables even in hard-to-reach areas

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC).
- Effort-saving, clean cutting with milled precision cutting edge
- High-quality tool steel ensures long tool life and precision cutting surfaces
- Optimal accessibility thanks to slim head shape
- Ergonomic, non-slip, two-component comfort handle with wide Insulated collar for secure working

IEC 60900 Compliant

Cutting edges: Inductively-hardened precision cutting edges

Surface: Ground and chrome-plated all around

Joint: Designed for accurate guide and leverage



| Length (mm) | Length (in) | Soft wire | Medium-hard wire | Hard wire | Art. No. | P. Qty. |
|-------------|-------------|-----------------|------------------|-----------------|-----------|---------|
| 160 | 6 1/4" | 4.0 mm diameter | 2.8 mm diameter | 2.0 mm diameter | 714.01572 | 1 |

INSULATED PLIERS SET

Art. No. 714.01580 4 pcs.

Combination Pliers, Wire Stripping Pliers, Needle Nose Pliers, Side Cutters

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC).
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Ergonomic, non-slip two-component comfort handle with wide Insulated collar for secure working
- Combination pliers with extra-long cutting edge for thicker cables
- Wire stripping pliers open automatically via opening spring
- Needle nose pliers with tips for high bending loads
- Side cutters with slim head shape for optimum accessibility

IEC 60900 Compliant



| Contents | Total Length (mm) | Total Length (in.) | Art. No. | P. Qty. |
|-----------------------|-------------------|--------------------|------------------|---------|
| Combination Pliers | 180 | 7" | 714.01575 | 1 |
| Wire Stripping Pliers | 160 | 6 1/4" | 714.01570 | |
| Needle nose Pliers | 210 | 8 1/4" | 714.01577 | |
| Side Cutters | 160 | 6 1/4" | 714.01572 | |

Art. No. 714.01581 4 pcs.

Combination Pliers, Cable Shears, Needle Nose Pliers, Side Cutters

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC).
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Ergonomic, non-slip two-component comfort handle with wide VDE collar for secure working
- Combination pliers with extra-long cutting edge for thicker cables
- Cable cutters for easy cutting of single- and multi-wire cables
- Needle nose pliers with tips for high bending loads
- Side cutters with slim head shape for optimum accessibility

IEC 60900 Compliant



| Contents | Total Length (mm) | Total Length (in.) | Art. No. | P. Qty. |
|--------------------|-------------------|--------------------|------------------|---------|
| Combination Pliers | 180 | 7" | 714.01575 | 1 |
| Cable Shears | 160 | 6 1/4" | 714.01585 | |
| Needle nose Pliers | 210 | 8 1/4" | 714.01577 | |
| Side Cutters | 160 | 6 1/4" | 714.01572 | |

INSULATED CABLE CUTTERS

A) Single cutting edge



B) Double cutting edge, for pre- and post-cutting



For cutting copper and aluminum cable

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC).
- High-quality tool steel ensures long tool life and precision cutting surfaces
- Special shear geometry enables easy and deformation-free cutting through single and multi-wire cable
- Double cutting edge for optimum transmission of force
- Ergonomic, non-slip, two-component comfort handle with wide Insulated collar for secure working

IEC 60900 Compliant

Cutting edges: Hardened precision cutting edges

Surface: Ground and chrome-plated

Joint: Adjustable screw connection



| Image | Length (mm) | Length (in) | Diameter | ⊕ | Max. wire cross section (mm ²) | ⊕ | Art. No. | P. Qty. |
|-------|-------------|-------------|------------------|---|--|---|-----------|---------|
| A | 160 | 6 1/4" | 15.0 mm diameter | ⊕ | 50 | ⊕ | 714.01585 | 1 |
| B | 200 | 8" | 20.0 mm diameter | ⊕ | 70 | ⊕ | 714.01586 | |

VDE POWER SIDE CUTTERS



For cutting piano wire, hard, and soft wire

- For working on live parts up to 1,000 volts (AC) and up to 1,500 volts (DC), observing all prescribed safety precautions
- Strength-saving, clean cutting thanks to milled precision cutting edge
- High-quality tool steel ensures long tool life and precision of blades under maximum stresses
- Ergonomic and slip-free 2-component comfort handle with wide Insulated collar for secure working
- Blades: inductively hardened precision blades
- Surface: entirely ground and chrome-plated
- Joint: Lay-on, axis forged on
- Material of the grip handle: Polyvinyl chloride

IEC 60900 Compliant



| Length (mm) | Length (in) | Soft wire | Medium wire | Hard wire | Piano wire | Art. No. | P. Qty. |
|-------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------|---------|
| 200 | 8" | 4.5 mm diameter | 4.0 mm diameter | 3.0 mm diameter | 2.5 mm diameter | 714.01597 | 1 |

INSULATED 3-IN-1 ELECTRICAL INSTALLATION PLIERS



3 in 1 Pliers: For cutting, sheathing, and stripping insulation from electrical cables

According to safety measures for working on live parts
Up to 1,000 Volt (AC), to 1,500 Volt (DC)

3 tools in 1

- Comfortable handling eliminates the need to change tools
- Side cutter function
- Stripping insulation in an ergonomic pulling motion

Ergonomic handle for safe working

Non-slip 2-component comfort handle with wide insulated collar

Inductively-hardened precision cutting edges

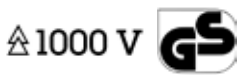
Surface ground and chrome-plated

Lap joint

IEC 60900 Compliant

Application: For round cables measuring \varnothing 8-12 mm

For cables sticking out from distribution boxes, wall boxes, junction boxes, switch boxes, switch cabinets or simply for loose cables. Can be used for electrical installation, heating and ventilation systems, systems engineering, trade fair construction, kitchen construction or other trades.



| Length (mm) | Length (in.) | Min./Max. wire cross section mm ² | Max. cable diameter for ALU/CU | Art. No. | P. Qty. |
|-------------|--------------|--|--------------------------------|-----------|---------|
| 180 | 7" | 1.5 - 2.5 mm ² | \varnothing 8 - 12 mm | 714.01588 | 1 |



Cut cable with the side cutter



Carefully cut into the sheath with the blades until the stop rests against the sheath. Then rotate the pliers part way around the cable



Bend the cable end slightly until the separation point breaks, and pull off the piece of sheath



Remove the insulation of the individual conductors with the stripping holes

INSULATED PLIERS AND SCREWDRIVER SET



Art. No. 714.01582 8 pcs.

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC).
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Wire stripping pliers open automatically via opening spring
- Side cutters with slim head shape for optimum accessibility
- Snipe nose pliers with tips for high bending loads
- Ergonomic, non-slip two-component comfort handle for secure working

IEC 60900 Compliant



| Contents | Total Length (mm) | Total Length (in.) | Art. No. | P. Qty. |
|--|-------------------|--------------------|------------|---------|
| Wire Stripping Pliers | 160 | 6 1/4" | 714.01570 | 1 |
| Side Cutters | | | 714.01572 | |
| Needle nose Pliers | 210 | 8 1/4" | 714.01577 | |
| Slotted Screwdriver, 0.4 x 55 x 2.5 mm | 160 | 6 1/4" | 613.631025 | |
| Slotted Screwdriver, 0.8 x 55 x 4.0 mm | 180 | 7" | 613.63104 | |
| Slotted Screwdriver, 1.2 x 55 x 6.5 mm | 260 | 10 1/4" | 613.631065 | |
| PH 1 Screwdriver | 180 | 7" | 613.6321 | |
| PH 2 Screwdriver | 210 | 8 1/4" | 613.6322 | |

VICE-GRIP PLIERS



With Semi-Circular Jaws

- Smooth-running release lever with spring mechanism
- One-handed operation, pulling instead of pressing
- Lock nut for locking clamping width
- Tough nickel coating

| Length (mm) | Min./Max. clamping width (mm) | Material | Surface | Product weight (per piece) | Art. No. | P. Qty. |
|-------------|-------------------------------|----------|---------------|----------------------------|-----------------|---------|
| 190 | 0 - 42 | Steel | Nickel-plated | 332 g | 714.0907 | 1 |
| 235 | 0 - 48 | | | 512 g | 714.0908 | |



With Straight Jaws

- Smooth-running release lever with spring mechanism
- One-handed operation, pulling instead of pressing
- Lock nut for locking clamping width
- Tough nickel coating

| Length (mm) | Min./Max. clamping width (mm) | Material | Surface | Product weight (per piece) | Art. No. | P. Qty. |
|-------------|-------------------------------|----------|---------------|----------------------------|-----------------|---------|
| 235 | 0 - 46 | Steel | Nickel-plated | 560 g | 714.0910 | 1 |

VICE-GRIP PLIERS SET



Art. No. 714.09103 3 pcs.

3-piece, including high-quality tool roll.

Smooth-running release lever with spring mechanism

- One-handed operation, pulling instead of pressing.

Lock nut for locking clamping width

Tough nickel coating

| Contents | Art. No. | P. Qty. |
|--|-----------------|---------|
| Vice-grip pliers with semi-circular jaws | 714.0907 | 1 |
| Vice-grip pliers with semi-circular jaws | 714.0908 | |
| Vice-grip pliers with straight jaws | 714.0910 | |

HOG RING PLIER



Art. No. 502.7657

Offset angle nose for close to floor non-removable cushions.

SHEET METAL LOCKING PLIERS



Wide, flat clamping jaws for especially high surface pressure.

- Effortless release lever with spring mechanism
- One-hand operation – pull-action instead of push-action
- Jam nut for fixing clamping width, setting retained for repetitive applications
- Ergonomic and appealing design

| Length (mm) | Clamping width (mm) | Jaw width (mm) | Art. No. | P. Qty. |
|-------------|---------------------|----------------|-----------------|---------|
| 200 | 0-45 | 80 | 715.0912 | 1 |

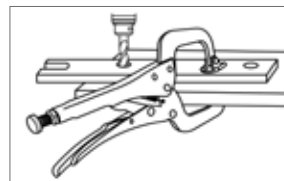
CLAMPING GRIP PLIERS WITH PARALLEL C-SHAPE



High, wide clamping arm with movable clamping jaws

Suitable for clamping and securing components with especially high surface pressure

| Total length (mm) | Clamping jaw clamping width (mm) | L (mm) | H (mm) | Art. No. | P. Qty. |
|-------------------|----------------------------------|--------|--------|-----------------|---------|
| 165 | 0 - 50 | 46 | 62 | 715.0922 | 1 |
| 320 | 0 - 100 | 78 | 100 | 715.0923 | 1 |



VICE-GRIP LOCKING PLIERS

Features:

- Effortless release lever with spring mechanism
- One-hand operation – pull-action instead of push-action
- Lock nut for fixing clamping width, setting retained for repetitive applications
- Ergonomic and appealing design
- Comfortable and effortless handling

Long straight jaws



| Length (mm) | Clamping width (mm) | Art. No. | P. Qty. |
|-------------|---------------------|-----------------|---------|
| 165 | 0-55 | 715.0903 | 1 |
| 235 | 0-70 | 715.0904 | |

*with jaws angled downward by 35°

Semi-circular jaws

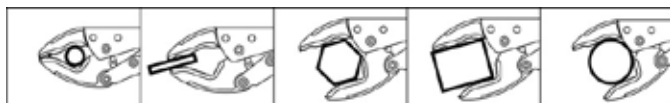


| Length (mm) | Clamping width (mm) | Art. No. | P. Qty. |
|-------------|---------------------|-----------------|---------|
| 135 | 0-30 | 715.0906 | 1 |
| 190 | 0-42 | 715.0907 | |
| 235 | 0-63 | 715.0908 | |

Universal jaws

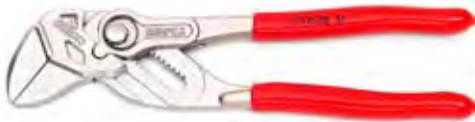


| Length (mm) | Clamping width (mm) | Art. No. | P. Qty. |
|-------------|---------------------|-----------------|---------|
| 200 | 0-40 | 715.0925 | 1 |
| 235 | 0-60 | 715.0926 | |
| 300 | | 715.0927 | |



The combination of straight, semi-circular and convex jaw shape results in a broad range of clamping applications.

PLIER WRENCH



Pliers and wrench in one tool

Plastic-covered handle

Jaws: parallel guidance, smooth, nickel-plated

- No damage to workpiece thanks to zero-backlash surface pressure

Adjustment with push button

- Adjustable directly on the workpiece

Joint: box joint

Force transmission: 10x

- High clamping force

The action of the gripping surfaces allows rapid tightening and loosening of bolted connections using the ratchet principle

| Max. grip range (mm) | Length (mm) | Width of clamping jaw (mm) | Jaws thickness (mm) | Art. No. | P. Qty. |
|----------------------|-------------|----------------------------|---------------------|-----------|---------|
| 27 | 150 | 12.0 | 5 | 715.02515 | 1 |
| 35 | 180 | 14.0 | 6 | 715.0251 | |
| 46 | 270 | 18.5 | 8 | 715.0250 | |
| 85 | 400 | 30.0 | 13 | 715.02514 | |

WATER PUMP PLIERS



Self-clamping water pump pliers with push button adjustment

- DIN ISO 8976
- Slip-resistant, plastic-coated handle
- Tempered chrome-vanadium steel
- Inductively hardened, polished teeth
- Pinch guard prevents crushing injuries
- Box joint
- Rapid and precise, one-hand fine adjustment directly on the workpiece
- No unintentional adjustment
- Self-clamping on pipes and nuts
- No slippage on workpiece
- Head: black

| Length (mm) | Min./Max. Grip Range (mm) | E (mm) | B (mm) | C (mm) | Art. No. | P. Qty. |
|-------------|---------------------------|--------|--------|--------|-----------|---------|
| 180 | 10 - 36 | 31 | 12 | 11.0 | 715.0233 | 1 |
| 250 | 10 - 46 | 35 | 17 | 12.0 | 715.0223 | |
| 300 | 10 - 60 | 40 | 18 | 14.0 | 715.02331 | |
| 400 | 10 - 95 | 56 | 25 | 18.0 | 715.0234 | |



Box joint, 7x adjustable

DIN ISO 8976

Handle: Plastic-coated

- Prevents slippage

Teeth: Inductively hardened

- Self-locking on pipes and nuts
- Does not slip off the workpiece

Head: Painted black, ground

Material: Chrome-vanadium steel, hardened

| L (mm) | ⌀ _A (in.) | ⌀ _A (mm) | E (mm) | B (mm) | C (mm) | Art. No. | P. Qty. |
|--------|----------------------|---------------------|--------|--------|--------|----------|---------|
| 175 | 1" | 28 | 27 | 12 | 6 | 714.0275 | 1 |
| 250 | 1" | 30 | 32 | 16 | 7 | 714.0276 | |
| 300 | 1 1/2" | 40 | 40 | 19 | 10 | 714.0277 | |

90° CORNER PIPE WRENCH



Swedish type, angled 90°

Continuously adjustable

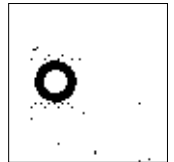
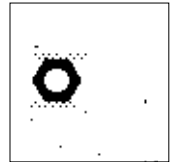
- Fixed with captive adjusting nuts

Optimal hold with high strength properties

- Tothing on head set against the direction of rotation

Durable and wear resistant

- Inductively hardened teeth



| Max. pipe diameter (in.) | Grip range (mm) | Length (mm) | Clamping jaw width (mm) | Jaws thickness (mm) | Art. No. | P. Qty. |
|--------------------------|-----------------|-------------|-------------------------|---------------------|----------|---------|
| 1" | 35 | 310 | 18 | 15.5 | 714.0650 | 1 |
| 2" | 65 | 560 | 25 | 22.5 | 714.0652 | |

45° CORNER PIPE WRENCH



Swedish type, angled 45°

Continuously adjustable

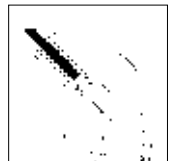
- Fixed with captive adjusting nuts

Optimal hold with high strength properties

- Tothing on head set against the direction of rotation

Durable and wear resistant

- Inductively hardened teeth



| Max. pipe diameter (in.) | Grip range (mm) | Length (mm) | Clamping jaw width (mm) | Jaws thickness (mm) | Art. No. | P. Qty. |
|--------------------------|-----------------|-------------|-------------------------|---------------------|----------|---------|
| 1" | 35 | 314 | 22 | 13.0 | 714.0655 | 1 |
| 2" | 65 | 570 | 31 | 19.5 | 714.0657 | |

S-JAW CORNER PIPE WRENCH



Swedish form, S-jaw, with three-point support and self-adhesive fixing.

Continuously adjustable

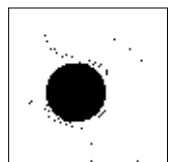
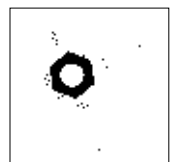
- Fixed with captive adjusting nuts

Optimal hold with high strength properties

- Tothing on head set against the direction of rotation

Durable and wear resistant

- Inductively hardened teeth



| Max. pipe diameter (in.) | Grip range (mm) | Length (mm) | Clamping jaw width (mm) | Jaws thickness (mm) | Art. No. | P. Qty. |
|--------------------------|-----------------|-------------|-------------------------|---------------------|----------|---------|
| 1" | 35 | 320 | 18 | 10.5 | 714.0660 | 1 |
| 2" | 65 | 535 | 28 | 12.5 | 714.0662 | |
| 3" | 80 | 640 | 30 | 15.5 | 714.0663 | |

SHEET METAL SHEARS



Levered sheet metal shears with two-part plastic handle. Ideal shears for continuous and figure cutting.

- Handle sections made of two-part plastic (Item 1). Prevents slipping of hand.
- Bottom handle section made of one-part plastic (Item 2). The sliding of fingers over the bottom handle is made possible when opening and closing the handle.
- Ridges on the handles prevent the shears slipping out of one's hand (Item 3). Secure guidance of the sheet metal shears.
- Cutting head made of special stainless steel, drop-forged. Cutting edges inductively hardened (Item 4). Long service life.
- Non-toothed cutting shape (Item 5). Minimal force required, no slipping of the sheet.
- With leverage transfer. High cutting force with low force application.



| Model | L in mm | Cutting capacity up to (mm) | | Art. No. | P. Qty. |
|--------------------|---------|-----------------------------|-----------------|------------------|---------|
| | | Sheet steel | Stainless steel | | |
| Right-hand cutting | 260 | 1.8 | 1.2 | 713.03100 | 1 |

SHEET METAL SNIPS



Extremely manoeuvrable, powerful and compact

Double leverage

- Lower application of force with simultaneously increased cutting performance

Perfect design

- Small and light, therefore enormously manoeuvrable and versatile
- Easily stored in any jacket pocket or carpenter's pocket

Extremely compact shearing head

- Ideal for cutting extremely tight radii and for hard-to-reach places

Combined lock and stop

- Combined lock and stop for improved safety
- Shears can be quickly and easily closed and kept closed

Ergonomically shaped handle

- Handle sits extremely well in the hand and is especially easy to grip thanks to the soft insert in the upper handle shell. This also guarantees low-fatigue working

Optimised cutting geometry

- No slipping and no serration



| Version | Length (mm) | Cutting capacity (mm) | | Art. No. | P. Qty. |
|--------------------|-------------|-----------------------|-----------------|------------------|---------|
| | | Steel sheet | Stainless Steel | | |
| Right-hand cutting | 180 | 1.2 | 0.8 | 713.03200 | 1 |

METAL SNIPS



Leverage sheet metal snips for continuous and shaped cuts

Rounded grip made from 2-component plastic

- Prevents your hand from slipping

Lower handle made from 1-component plastic

- You can slide your finger over the lower handle when opening and closing the handle

Handle heights prevent the shears from slipping out of your hand

- Safe execution of the sheet-metal shears

Long service life

- Cutting head made from special stainless steel, die-forged
- Induction hardened cutting edges

Unserrated cutting geometry

- Effortless, without the sheet metal slipping

Lever transmission

- High cutting power with little effort



Ideal Shears

for continuous and figure cutting

| Version | Length (mm) | Cutting capacity (mm) | | Art. No. | P. Qty. |
|--------------------|-------------|-----------------------|-----|-----------|---------|
| | | Steel sheet | V2A | | |
| Right-hand cutting | 260 | 1.8 | 1.2 | 713.03100 | 1 |
| Left-hand cutting | | | | 713.03110 | |



Ideal Shears

with carbide cutting edges for continuous and figure cutting

- Greater cutting capacity and longer service life
- Especially suitable for cutting stainless steel

| Version | Length (mm) | Cutting capacity (mm) | | Art. No. | P. Qty. |
|--------------------|-------------|-----------------------|-----|-----------|---------|
| | | Steel sheet | V2A | | |
| Right-hand cutting | 260 | 1.8 | 1.2 | 713.03130 | 1 |
| Left-hand cutting | | | | 713.03135 | |



Figure Shears

for continuous and tight figure cutting

| Version | Length (mm) | Cutting capacity (mm) | | Art. No. | P. Qty. |
|--------------------|-------------|-----------------------|-----|-----------|---------|
| | | Steel sheet | V2A | | |
| Right-hand cutting | 260 | 1.8 | 1.2 | 713.03115 | 1 |
| Left-hand cutting | | | | 713.03120 | |



Spare Part Assortment

Art. No. 713.0350

- 1x spring, 2x disk spring, 2x screw, 1x pin

SHAPE-CUTTING SNIPS



Art. No. 714.0308 P. Qty. 1

Inductively hardened cutting edges guarantee a long service life and optimum cutting results

- Fully die-forged sheet metal shears (head and handle)
- For sheet thickness up to 1 mm
- Length: 250 mm

SHEET METAL SHEARS



Inductively hardened cutting edges guarantee a long service life and optimum cutting results

- Fully forged sheet metal shears (head and handle)
- For sheet thickness up to 1 mm
- Cutting length 34 mm

| Version | Length (mm) | Art. No. | P. Qty. |
|--------------------|-------------|-----------------|---------|
| Right-hand cutting | 280 mm | 714.0309 | 1 |
| Left-hand cutting | | 714.0310 | |

PELICAN SNIPS



Art. No. 714.0313 P. Qty. 1

Induction hardened cutting edges guarantee a long service life and optimum cutting results

- Fully forged sheet metal shears (head and handle)
- For sheet thickness up to 1 mm
- Cutting length: 62 mm

30" BOLT CUTTER



Art. No. 714.0682

Industrial bolt cutter

- Ideal for cutting rod, bolts, concrete form ties and fencing wire.
- Hardened alloy steel jaws.
- Length: 30"

PIPE CUTTER



| Min./Max. Cutting Capacity | Art. No. | P. Qty. |
|------------------------------------|------------|---------|
| 3-35 mm | 714.551236 | 1 |
| Replacement Blade For Pipe Cutters | 714.551910 | 10 |

Easy cutting of aluminium, copper and thin-walled metal pipes

Very light weight

- Body, slide and turning knob made from high-pressure die-cast zinc

Easy to use

- Steel spindle bearings for smoother slider movement
- Four guide rollers for optimum pipe grip during cutting
- Longer turning knob sits deep in the hand for effective power transmission

Saves time

- Tool-free cutting wheel change



COMPACT PIPE CUTTERS



Easy cutting of aluminum, copper and thin-walled metal pipes

Features:

- Low weight
- Tool-free cutting wheel change
- Steel spindle bearings
- Very small working radius

| Min./Max. Cutting Capacity | Art. No. | P. Qty. |
|----------------------------|------------|---------|
| 3-16 mm | 714.551117 | 1 |
| 3-30 mm | 714.551127 | |

PLASTIC PIPE CUTTERS



For cutting plastic piping and plastic composite piping

With ratchet function

Minimal force required

- Magnesium die cast shears
Extremely robust yet light
- Blade retraction at the push of a button
Huge time savings
- Shear blade in coated
Stainless steel
Extremely clean cutting action and long service life
- No tools required to change blades

| Diameter range (in.) | Diameter range (mm) | Total length (mm) | Art. No. | P. Qty. |
|----------------------|---------------------|-------------------|-----------|---------|
| 0 - 1" | 0 - 26 mm | 205 mm | 715.55150 | 1 |
| 0 - 1 5/8" | 0 - 42 mm | 240 mm | 715.55160 | |
| 0 - 2 1/2" | 0 - 63 mm | 280 mm | 715.55170 | |

QUICK DEBURRING TOOL

Art. No. 714.4207 - Qty. 1



Pivot mounted blade that adapts to contours of the workplace.

- Metal blade mount
- Sturdy design
- 150 mm Length

Application:

- Deburring of edges, pipes and metal sheets



Art. No. 714.42024 - P. Qty. 5

Spare Blades for Art. No. 714.4207

Application:

- Steel
- Aluminum



Art. No. 714.42025 - P. Qty. 5

Spare Blades for Art. No. 714.4207

Application:

- Brass
- Cast Iron
- Plastic

AUTOMOTIVE FILES, 6 PIECES



Art. No. 714.6174

- "Warding" files.
- Includes flat, flat pointed, round, triangular, square and half-round file.
- DIN 7283.
- 100 mm/ 3-15/16" long.
- Double cut.
- With wooden handle.
- In a plastic case.

AUTOMOTIVE FILES, 5 PIECES



Art. No. 714.6190

- Workshop files.
- Includes round, square, flat-hand, half-round, and triangular file.
- 200 mm/ 7-7/8" long.
- Double cut.

8" DIAMOND NEEDLE FILE SET 4 PC.



Art. No. 714.61962 • 4 pcs.

Premium Files for a faster, smoother and cleaner finish.

Features:

- 12" overall length with 8" blade
- Electroplated diamond coating onto steel
- Harder than conventional files
- Cuts 10X faster in ALL directions

- Smooth action filing
- Cuts into welds and hardened surfaces
- Convenient folding pouch

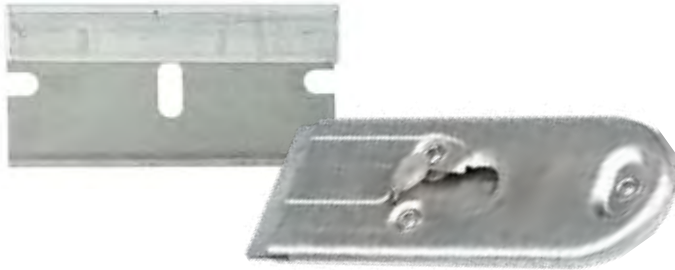
Advantages:

- Works in any direction
- Save time while working with hard or soft materials



Works in **any direction!**

ALL STEEL SAFETY RAZOR SCRAPER



Art. No. 690.1

- Push button securely locks blade and safely retracts blade into handle
- Useful for scraping paint and window stickers
- Complete with sleeves and tray
- Considered the finest available by professional and industrial users
- Ideal for scraping, cutting and trimming parts, upholstery, paint, glass and more

| Replacement Blades | | | | |
|--------------------|-------|----------|--------------|------------|
| Duty | Gauge | Box Qty. | Old Art. No. | Art. No. |
| # 9" | .009 | 100 | 690.9 | 714.663317 |
| # 12" Heavy | .012 | | 690.912 | 714.663318 |

RETRACTABLE RAZOR SCRAPER



Art. No. 715.13626

- A unique retractable scraper that takes the aggravation out of getting old stickers off car windshields and paint blotches off windows
- Size: 7 7/8" when fully open and locked in position
- The razor blade holder tilts the blade to give a better angle of attack in tight corners
- The blade can be folded 180° into the handle and locked when not in use, permitting it to be kept in a tool box safely
- The blade can be replaced when worn out

PLASTIC RAZOR BLADES



Art. No. 690.8 P. Qty. 25

- Safely removes stickers from plastic-coated windshields without the risk of scratching or cutting the windshield
- Made from polypropylene
- Blades are also ideal for scraping many other surfaces in automotive, industrial, and home applications

PUTTY KNIFE



Flexible, high-quality carbon steel (conically ground).

Applications:

- For eliminating unevenness and removing wallpaper or adhesive residues
- For removing old paintwork, surface rust, wall coverings

| Blade Width (mm) | Art. No. | P. Qty |
|------------------|-------------------|--------|
| 30 | 695.940903 | 1 |
| 50 | 695.940905 | |
| 70 | 695.940907 | |

RAZOR BLADE SCRAPER



Art. No. 714.66335 - P. Qty. 1

For easy quick removal of stickers and decals from windows and smooth surfaces.

Features:

- Easily removes unwanted decals and the decal adhesive
- Comfortable ergonomic, slip-free 2-component handle
- Hand held design for hard to reach areas
- Robust stainless steel blade holder
- Includes 6 blades



Replacement blade is [714.663317](#)

SCRAPER AND BLADE SET



Art. No. 715.6640 - P. Qty. 1

Safe Convenient Storage of Utility Knife Blades.

Features:

- 27-piece scraper set with 4 different scraper blades and steel handle utility knife
- Ergonomic 2C scraper handle with blade clamp
- Utility knife with multi-stage locking
- Blade can be fully retracted
- For removing stickers, residual adhesive beads, seals etc.
- Different blade sizes for scraping, cutting or chiseling out soft material
- Strong utility knife for cutting hard material such as vinyl, carpets, plastics, cardboards etc.

| Contents for Art. No. 715.6640 | | |
|--|----------|----------|
| Designation | Art. No. | Quantity |
| Steel Utility Knife | 715.6601 | 1 |
| Scraper handle | 715.6641 | 1 |
| Trapezoidal blade | 695.106 | 5 |
| Scraper blade width of knife blade 12 mm | 715.6642 | |
| Scraper blade width of knife blade 16 mm | 715.6643 | |
| Scraper blade width of knife blade 20 mm | 715.6644 | |
| Scraper blade width of knife blade 16 mm | 715.6645 | |

Replacement trapezoid blade is 695.106 (100 pk)

TRAPEZOID BLADE GLASS SCRAPER



For tough removal of adhesives and stickers .

Features:

- Angled plastic handle design to ensure adequate pressure when removing material
- Designed for hard to reach areas
- Removes stickers and paint residual
- Trapezoid razor blades are stronger, so they can be used for removing harder materials
- Can be used to cleans floors, glass and tiles
- Trapezoid blade included

| Scraper width | Length | Replacement blade | Art. No. | P. Qty. |
|---------------|--------|-------------------|----------|---------|
| 58 mm | 170 mm | 695.106 | 715.6608 | 1 |

TIGHT ACCESS TWEEZERS 14"



Art. No. 714.600

Go where no tool has gone before with the Tight Access Tweezers.

Surpassing the reach of the industry's longest available needle nose pliers, these tweezers have a slim, low-profile design that allows it to fit into tight areas that other pliers cannot. Unlike traditional pliers it provides a secure grip due to its ability to flex as pressure is applied, ensuring a strong grasp on the object being retrieved. Featuring interlocking teeth with a stainless steel body, this tool is ideal for grabbing a variety of objects including wires, hoses, gaskets, o-rings, fuses, hardware, and more.

Features:

- Precise interlocking jaws for a strong grip
- Slim profile design for tight access areas
- Extended length for greater versatility
- Surgical-grade stainless steel construction

BEVELLED-EDGE CHISELS



2K handle for maximum resistance in line with DIN 5139

Features:

Ergonomically shaped 2K handle

- Non-slip, effortless work

Metal impact cap

- Optimum transfer of impact force, durable

Polished chromium-vanadium blade

- Clean cuts, long service life

| Width of knife blade (mm) | Art. No. | P. Qty. |
|---------------------------|------------|---------|
| 10 | 715.653410 | 1 |
| 16 | 715.653416 | |
| 20 | 715.653420 | |
| 24 | 715.653424 | |
| 26 | 715.653426 | |
| 30 | 715.653430 | |

BEVELLED-EDGE CHISEL SET



Art. No. 715.653400 6 pcs.

6-piece set with blade widths 10, 16, 20, 24, 26 and 30 mm.
2K handle for maximum resistance in line with DIN.

Features:

- Non-slip 2K handle
- Metal impact cap for optimum transfer of impact force, durable
- Polished chromium-vanadium blade
- Clean cuts, long service life

PREMIUM SPADE CHISELS



For chipping away at plastered walls and for loosening soil, cement and bitumen.

Version 1

With innovative wedge shape

- Greater wedge effect
- Higher breaking resistance
- Longer service life

Version 2

With an extended shank reinforcement

- More stability while using and less danger of breakage
- Longer service life

Version 3

With improved forming process

- Increased strength and hardness
- Longer service life

| Version | Length in mm | Width in mm | Art. No. SDS-plus Insertion Shank | Art. No. SDS-max Insertion Shank | P. Qty. |
|---------|--------------|-------------|-----------------------------------|----------------------------------|---------|
| 1 | 250 | 40 | 648.853250 | — | 1 |
| | 380 | 50 | — | 647.853350 | |
| 2 | 350 | 115 | — | 647.853115 | |
| 3 | 300 | 80 | — | 647.85380 | |



| Premium Point, Flat and Spade Chisel Multi-Pack | | | |
|---|-----------------------------------|----------------------------------|---------|
| Contents | Art. No. SDS-plus Insertion Shank | Art. No. SDS-max Insertion Shank | P. Qty. |
| One each of 648.851250, 648.852250 and 648.853250 | 648.850002 | — | 1 |
| One each of 647.851380, 647.852325 and 647.85350 | — | 647.850002 | |

*Available through special orders only

PREMIUM POINT AND FLAT CHISELS



| Premium Point and Flat Chisel Kit | | | |
|---|-----------------------------------|----------------------------------|---------|
| Contents | Art. No. SDS-plus Insertion Shank | Art. No. SDS-max Insertion Shank | P. Qty. |
| Three point and three flat chisels, 250 mm long | 648.850001 | — | 1 |
| Three point and three flat chisels, 400 mm long | — | 647.850001 | |



| Premium Point Chisels | | | | |
|-----------------------|-------------|-----------------------------------|----------------------------------|---------|
| Length in mm | Width in mm | Art. No. SDS-plus Insertion Shank | Art. No. SDS-max Insertion Shank | P. Qty. |
| 250 | — | 648.851250 | — | 1 |
| 400 | — | — | 647.851380 | |



| Premium Flat Chisels (only available in kit or special order) | | | | |
|---|-------------|-----------------------------------|----------------------------------|---------|
| Length in mm | Width in mm | Art. No. SDS-plus Insertion Shank | Art. No. SDS-max Insertion Shank | P. Qty. |
| 250 | 20 | 648.852250 | — | 1 |
| 400 | 25 | — | 647.852325 | |

For breaking-through or breaking-up construction material



With innovative 3-zone tempering technology, additional breaking edges (power grooves) and hexagon design.

Shank end: Designed to be harder (approx. 52 HRC), which extends the service life considerably.

Buffer section: Not as hard (approx. 48 HRC). Thanks to its greater elasticity, this section effectively dampens any vibrations which arise, decisively minimizing the danger of breakage at the shank end.

Working range: Thanks to 60 HRC quality steel, its extremely hard and rugged.

- Vibration absorption, which means minimized risk of breakage
- Up to 30% greater removal power
- Considerably longer service life
- Chisels remains sharp longer
- Minimized risk of sticking or damaging into materials as compared to round versions

Applications: For general breaking-up and breaking-through work (spiking, mortising, knocking out, pounding, breaking open, breaking out etc.)

Point chisel: For hard materials, e.g. concrete
All the impact energy of the hammer drill is concentrated at a point.

Flat chisel: For softer materials. Also for "marking" masonry to be knocked out

FLAT CHISEL IN LINE



Tempered hammer head

- DIN 6453

| Length (mm) | S (mm) | w x h (mm) | Weight (g) | Art. No. | P. Qty. |
|-------------|--------|------------|------------|-----------------|---------|
| 125 | 16 | 14 x 9 | 100 | 714.6301 | 1 |
| 150 | 18 | 17 x 11 | 170 | 714.6302 | |
| 175 | 22 | 20 x 12 | 260 | 714.6303 | |
| 200 | 25 | 23 x 13 | 380 | 714.6304 | |
| 250 | | | 490 | 714.6305 | |
| 300 | 26 | | 600 | 714.6306 | |

CENTRE PUNCH

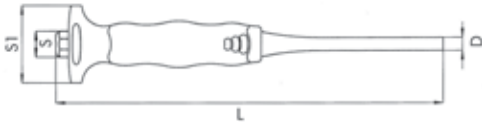


Tempered impact head

- DIN 7250

| Length (mm) | a (mm) | d (mm) | Weight (g) | Art. No. | P. Qty. |
|-------------|--------|--------|------------|-----------------|---------|
| 120 | 10 | 4 | 65 | 714.6315 | 1 |
| 150 | 12 | 5 | 120 | 714.6316 | |

PIN PUNCH



2K plastic handle

Ergonomically shaped 2K handle

- Secure grip, effortless work

Vibration protection

- The handle dampens impact vibrations and oscillations

Impact protection

- Prevents injuries to the hand

Made from hardened tool steel

- Long service life

| Length (mm) | S1 (mm) | S (mm) | D (mm) | Art. No. | P. Qty. |
|-------------|---------|--------|--------|-----------|---------|
| 150 | 30 | 10 | 2 | 714.63252 | 1 |
| | | | 3 | 714.63253 | |
| | | | 4 | 714.63254 | |
| | | | 5 | 714.63255 | |
| | | | 6 | 714.63256 | |

PIN PUNCH ASSORTMENT



Art. No. 714.63259 5 pcs.

5-piece assortment with 2-6 mm

Ergonomically shaped 2K handle

- Secure grip, effortless work

Vibration protection

- The grip dampens impact vibrations and oscillations

Impact protection

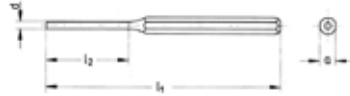
- Prevents injuries to the hand

Made from hardened tool steel

- Long service life

| Length (mm) | S1 (mm) | S (mm) | D (mm) | Art. No. | P. Qty. |
|-------------|---------|--------|--------|-----------|---------|
| 150 | 30 | 10 | 2 | 714.63252 | 1 |
| | | | 3 | 714.63253 | |
| | | | 4 | 714.63254 | |
| | | | 5 | 714.63255 | |
| | | | 6 | 714.63256 | |

IMPACT TOOL PIN PUNCH



Chromium-vanadium air hardening steel

Tempered safety hammer heads

- Prevents hammer head from developing bulges or splintering

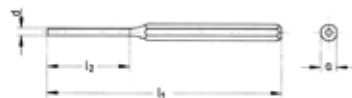
Full length of shaft hardened

- Particularly tough and wear-resistant as a result

According to DIN 6450, Type C

| L1 (mm) | L2 (mm) | a (mm) | d (mm) | Weight (g) | Art. No. | P. Qty. |
|---------|---------|--------|--------|-----------------|-----------------|---------|
| 150 | 40 | 10 | 3 | 60 | 714.6327 | 1 |
| | 50 | | 4 | 65 | 714.6328 | |
| | | | 5 | 70 | 714.6329 | |
| | | 6 | 80 | 714.6330 | | |
| | 12 | 8 | 115 | 714.6331 | | |
| | | 10 | | 714.6332 | | |

PIN PUNCH SET



Art. No. 714.6341 6 pcs.

6-piece set

Chromium-vanadium air hardening steel

Tempered safety hammer heads

- Prevents hammer head from developing bulges or splintering

Full length of shaft hardened

- Particularly tough and wear-resistant as a result

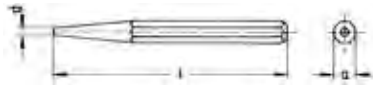
According to DIN 6450, Type C

Tempered hammer head

Contents: 6 pin punches, sizes 2, 3, 4, 5, 6, 8

| L1 (mm) | L2 (mm) | a (mm) | d (mm) | Weight (g) | Art. No. | P. Qty. |
|---------|---------|--------|--------|-----------------|-----------------|---------|
| 150 | 30 | 10 | 2 | 60 | 714.6325 | 1 |
| | 40 | | 3 | | 714.6327 | |
| | 50 | | 4 | 65 | 714.6328 | |
| | | 5 | 70 | 714.6329 | | |
| | | 6 | 80 | 714.6330 | | |
| | 12 | 8 | | 714.6331 | | |

SET OF DRIFT PUNCHES



Art. No. 714.63240 6 pcs.

- Chrome-vanadium air-hardened steel
- Tempered safety impact heads will not burr or split
- Shaft all-hardened, making it extremely tough and durable
- Tempered chisel head
- B = light type
- D = heavy type
- Sturdy metal carrying case

* Available through Special Orders

| Length (mm) | a mm | d mm | Weight (g) | Type | Art. No. | P. Qty. |
|-------------|------|------|------------|------|-----------------|---------|
| 120 | 10 | 2 | 65 | B | 713.6318 | 1 |
| | | 3 | | | 713.6319 | |
| | | 4 | | | 713.6320 | |
| | 12 | 5 | 95 | D | 714.6321 | |
| | | 6 | | | 714.6322 | |
| | | 8 | | | 714.6323 | |

NUMBER PUNCH SET



Art. No. 695.941615 P. Qty: 1

DIN 1451

- Superior quality, heat treated steel.
- Sharp characters ensure deep, clear impressions.
- They can mark steel up to a hardness of 50 Rockwell.
- 5 mm high figures.

VERNIER GAUGE



With locking screw

- Thread table on rear side
- Stainless steel
- Graduation chrome plated
- Measuring surfaces ground and lapped
- Complete with carrying case

| Vernier Value | | Meas. Range (mm) | Length of Jaw (mm) | Art. No. | P. Qty. |
|---------------|-------|------------------|--------------------|-----------------|---------|
| Lower | Upper | | | | |
| 0.05 | 1/128 | 0 - 150 | 40 | 715.7602 | 1 |

DIGITAL VERNIER CALIPER



Art. No. 715.7611 P. Qty: 1

- **Accuracy:** 0.02 mm/0.001 in (0-100 mm); 0.03 mm/0.001 in (>100-200 mm)
- **Repeatability:** 0.01 mm/0.005 in.
- **Maximum measuring speed:** 1.5 m/sec 60 in/sec.
- **Measuring system:** linear capacity measuring system.
- **Base measuring function:** inside, outside, depth, step measuring.
- **Display:** LCD display.
- **Power:** one battery 1.55V silver oxide SR44 (or alkaline battery) capacity: 180 mAh.
- **Operating temperature:** 0-40 °C/41-104 °F.
- **Influence of humidity:** within 0-80 % of relative humidity.
- **Storage temperature:** -20 °C - +70 °C.

| Measuring Range | |
|-----------------|-------|
| (mm) | (in.) |
| 0 - 150 | 0 - 6 |

Directions:

- Keep body surface clean, prevent liquid material from getting into slider to damage electronics. Surface should be cleared by petrol and the body may be lubricated by a little clock oil. Acetone and alcohol should not be used. Don't remove the data interface lid when the interface is not used.
- Do not insert any conductive body into the interface to protect the electronics.



Recommended:

Replacement Battery **827.0813**

MEASURING TAPES



High-quality metric and standard tape measures with plastic housing, for easy measuring

Features:

- High quality plastic housing
- Shock absorber for a cushioned rewinding of the tape
- Automatic lock when pulling out the blade
- Extremely stable thanks to the curved tape
- Tape can be extended far before it folds up
- Yellow nylon coated steel tape

Metric and imperial

- Belt clip
- Conforms to EU accuracy Class II

Benefits:

- Low weight
- End hook for stop and tension measurement
- Not subject to corrosion
- Long service life

| Description | Size | Art. No. | P. Qty |
|----------------|-------------|------------------|--------|
| Measuring Tape | 5 M (16 ft) | 714.64575 | 1 |
| | 8 M (26 ft) | 714.64578 | |

LASER DISTANCE MEASURING UNIT WDM 3-12

Art. No. 570.9300508 P. Qty. 1



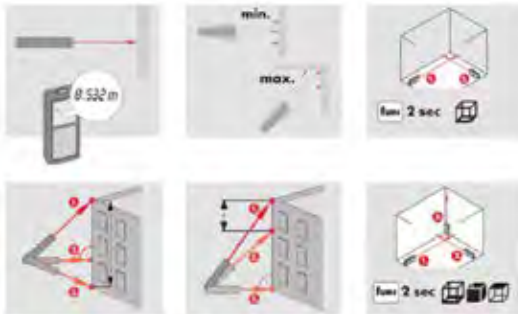
High-Precision Laser Distance Measuring Unit

Features:

- Accuracy ± 1.0 mm (1/32")
- Range 80 m (260ft)
- Large illuminated display for Excellent legibility
- Room dimensions function or room circumference
- Wall surface area and volume
- Extremely rugged
- Extra-thick housing components for Impact protection
- IP65 protection (dust-tight and protected against water jet)
- Enables measuring from slits and corners
- Tripod screw for tripod stand installation
- Protective pouch
- 2 x 1.5 V AAA batteries

Functions:

- Area calculation
- Wall surface area calculation
- Volume calculation
- Room dimensions
- Tracking (continuous measurement)
- Timer
- 10 Memory pre-sets



| Technical Data (as per ISO 16331-1) | |
|-------------------------------------|---|
| Laser Class | Laser Class 2 in accordance with IEC 60825-1:2007 |
| Laser Type | 635 nm |
| Maximum Range | 80 m (260ft) |
| Accuracy | ± 1.0 mm (1/32") |
| Battery Life | Up to 5,000 measurements |
| Display | 3-line LCD |
| Background Lighting | White LED |
| Power Supply | 2 x 1.5 V AAA |
| Working Temperature | -10 to +50°C |
| Weight | Instrument: 164 g (5.78 oz.) |
| Protection Class | IP 65 |
| Dimensions | 127 x 61 x 31 mm (5 x 2.4 x 1.22) inches |

SMALL SPIRIT LEVEL WITH MAGNET



Art. No. 714.644505 P. Qty: 1

Professional small spirit level with two magnetic surfaces

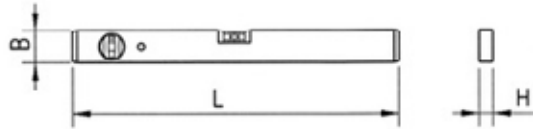
Features:

- Excellent readability and long service life
- Fluorescent level liquid, highly-resistant to UV radiation
- Milled measuring surface with strong magnets and V-shaped groove for strong hold on pipes, profiles etc.

| | |
|---|----------|
| Length | 74 mm |
| Height | 34 mm |
| Width | 41 mm |
| Number of magnets | 2 pieces |
| Measuring accuracy (per length) | 1 mm/m |
| Measuring accuracy for overhead measurements (per length) | 1 mm/m |
| Degrees measuring accuracy for overhead measurements | 1 degree |



COMPACT BOX LEVEL



| Length (cm) | Height (mm) | Width (mm) | Art. No. | Description |
|-------------|-------------|------------|-------------------|-------------------------|
| 30 | 20 | 50 | 714.644203 | Light Metal Level 30cm |
| 60 | | | 714.644206 | Light Metal Level 60cm |
| 100 | | | 714.644210 | Light Metal Level 100cm |
| 120 | | | 714.644212 | Light Metal Level 120cm |
| 200 | | | 714.644220 | Light Metal Level 200cm |

For excellent readability and long service life

- Stable rectangular profile with smooth lateral surfaces
- Acrylic glass level block with integrated, corrosion-free reading rings
- No discoloration of liquid, maximum precision with temperature fluctuations
- Florescent level liquid, highly resistant to UV radiation
- Very smooth surface, therefore easy to clean
- Red electrostatic powder coating
- High precision
- Robust light metal profile with milled measuring surface
- Non-Magnetic

MAGNETIZER/DEMAGNETIZER



Art. No. 715.3495 P. Qty. 1

Suitable for the magnetizing and demagnetizing of steel tools

- Suitable for screwdrivers, pliers, scissors, metal blades, Allen keys, bits, tweezers and similar tools made of steel
- Durable
- Handy
- Pocket size: 50 x 50 x 30 mm

PRECISION FEELER GAUGES



- Conical gauge platelets
- Length: 100 mm
- Stored in plastic sheath

| No. of blades | Blade thickness (mm) | Contents | Art. No. | P. Qty. |
|---------------|----------------------|--|-----------------|---------|
| 13 | 0.05 - 1.00 | 0.05/0.10/0.15/0.20/0.25/0.30/0.40... → 1.00 | 713.5141 | 1 |
| 20 | | 0.05/0.10... → 1.00 | 713.5142 | |

INFRARED LASER THERMOMETER



Art. No. 715.53110

An integrated laser pointer for measurement of surface temperatures

Features:

- Ergonomic, practical and suitable for use anywhere
- Thanks to the two-point laser beam, the measuring point can be focused even more precisely
- Extremely slim measuring cone of 12:1
- Digital setting of degree of emission
- Can be switched from Celsius to Fahrenheit
- With integrated display lighting

- Display of results with one decimal place
- Adjustable alarm with extremely high or lower temperatures
- Infrared laser thermometer is supplied in practical pouch which can be fastened to belt

Benefits:

- Temperatures displayed in just seconds
- Reliable and accurate measurements with a slimmer measuring cone
- Measures temperatures between -50 °C and +650 °C

Technical Data

| | |
|----------------------------------|---|
| Measuring range | -50 °C to +650 °C |
| Two-point laser targeting system | 12:1 |
| Power supply | 9 V battery (Art. No. 827.05) not included |
| Spectral range | 8 to 14 µm |
| Reaction time of device | 150 ms |
| Repeat precision | - 50 to +20 °C/- 58 to +68 °F: ± 1.3 °C (2.3 °F) + 20 to +650 °C/+ 68 to +1,202 °F: ± 0.5 %, 0.5 °C (0.9 °F) |
| Measuring tolerance | - 50 to +20 °C/- 58 to +68 °F: ± 2.5 °C (4.5 °F) + 20 to +300 °C/+ 68 to +572 °F: ± 1 %, 1 °C (1.8 °F) + 300 to +650 °C/+ 572 to +1,202 °F: ± 1.5% |
| Automatic switch-off | after approx. 5 sec. |



Note: When the trigger is pressed continually, the device always indicates the actual temperature of each measuring point. When released, the last measuring result is displayed.

ANGLED GEAR



Fast, simple 360° adjustment of handle for high flexibility.

Art. No. 614.9000

Powerful angled screwing gear for screwing and drilling work. Suitable for use with electric drills and battery-operated driver drills.

- High quality angled gear. Specially hardened steel enables maximum torque of up to 57 Nm (42 ft-lb) or maximum speed of 2000 rpm.
- Handle with soft grip. Secure hold and 360° adjustable handle. Optimum adjustment to respective work application.
- Compact design. Excellent for screwing in cramped and hard-to-reach places.
- Magnetic 1/4" bit mount with quick-change chuck. Secure holding of screws with magnetic effect. Suitable for all standard bits and bit drills with C6.3 and E6.3 mount.
- Mount: 1/4" hexagon (E6.3).
- Dimensions: 165 x 32 x 50 mm (L x W x H)(6.5" x 1.25" x 2")



MINI CHUCK



Art. No. 713.9204 - P. Qty. 1

- 1/4" hex shaft for use with Angled Gear, Art. No. 614.9000
- Drill size range: 0.4 mm - 6 mm (1/64" - 5/64")
- Suitable for both left and right-hand rotation

HAND STAPLE GUNS



Art. No. 714.834

High-performance hand staple gun for staples with a maximum length of 14 mm.

- Long life.
- Adjustable impact force (max. and min.).
- Recoil-free.
- Large magazine for 84 staples.
- Fast loading.
- High degree of operating safety.

Application: Stapling soft onto hard materials, e. g. ceiling linings, insulating materials, plastic film, carpeting, upholstery covers etc. on all types of wood.

Suitable staples:

| | Length mm | Art. No. | P. Qty. |
|----|------------|------------|---------|
| | 6 | 480.140006 | 5000 |
| | 8 | 480.140008 | |
| | 10 | 480.140010 | |
| | 12 | 480.140012 | |
| 14 | 480.140014 | | |

| | |
|--------------------------|---------------------------|
| Magazine Capacity | 84 staples |
| Staple Length | 6 (1/4") to 14 mm (9/16") |
| Staples | Art. No. 480.140... |
| Weight | 820 g |



Art. No. 714.854

The hand staple gun with a high impact force for thinner materials.

- Long life.
- Convenient handling.
- Recoil-free.
- Large magazine for approx. 156 staples.
- Easy loading.
- High degree of operating safety.

Application: Stapling of fabrics, pasteboard, plastic, leather, sealing strips etc.

Suitable staples:

| | Length mm | Art. No. | P. Qty. |
|--|-----------|------------|---------|
| | 6 | 480.153006 | 5000 |
| | 8 | 480.153008 | |

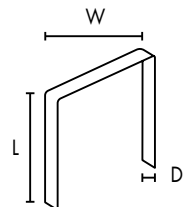
| | |
|--------------------------|--------------------------|
| Magazine Capacity | Approx. 156 staples |
| Staple Length | 6 (1/4") to 10 mm (3/8") |
| Staples | Art. No. 480.153... |
| Weight | 310 g |

STAPLES



Staples for Hand-Held & Hammers Staplers

| Width | Length | Diameter | Material | Surface | Art. No. | P. Qty. |
|---------|--------|----------|----------|---------|------------|---------|
| 10.6 mm | 6 mm | 1.25 mm | Steel | Bare | 480.140006 | 5000 |
| | 8 mm | | | | 480.140008 | |
| | 10 mm | | | | 480.140010 | |
| | 12 mm | | | | 480.140012 | |
| | 14 mm | | | | 480.140014 | |



HAMMER STAPLE TACKER



Robust professional tacker with ergonomic handle

Features:

- Balanced weight distribution
- Maximum impact force with minimum force expenditure
- Slip-proof, ergonomic handle

- Wide impact face protects the material being stapled
- Rebounding head
- Ergonomic handle for fatigue-free operation
- Large magazine for 168 staples (2 full sticks)
- Easy cleaning (only 4 parts)

| Magazine Capacity | Min/Max Staple Length | Staples | Art. No. |
|-------------------|-----------------------|------------------|----------------|
| 168 pcs | 6 - 10 mm | 480.140006/8/10 | 714.811 |
| | 10 - 14 mm | 480.140010/12/14 | 714.854 |

CLAW HAMMER

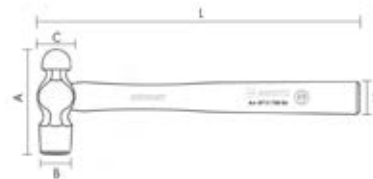


Features:

- Heavy duty claw hammer with 2-component grip.
- Rim temper reduces incidences of chipping or spalling.
- Forged, one-piece steel construction for strength and durability.
- Slip-resistant, 2-component handle for a secure grip and comfort.

| Handle Material | Length (mm) | Weight (g) | Weight (oz) | Art. No. | P. Qty. |
|------------------|-------------|------------|-------------|-------------------|---------|
| 2K rubber handle | 330 | 454 | 16 | 715.733116 | 1 |

BALL PEEN HAMMER



With hickory handle.

- Full polished head
- Standard: ASME B107.53

| Weight (Head) | A (mm) | B (mm) | C (mm) | L (mm) | H (mm) | Art. No. | P. Qty. |
|---------------|--------|--------|--------|--------|---------|------------------|---------|
| 24 oz / 680 g | 116 | 34 | 42 | 360 | 36 x 30 | 715.73824 | 1 |
| 16 oz / 454 g | | | | | | 715.73816 | |

SIMPLEX SOFT FACE HAMMER



2-in-1 face hammer.

Features:

- High quality steel housing
- Impact inserts and handle rapidly replaceable due to wear and tear and enables individual adaptations to different work pieces
- Inserts and shaft are firmly secured for added safety
- For use in numerous application without damaging work piece
- Made in Germany
- Inserts: Black rubber composition and red plastic

Applications:

Assembly and repair work in the automotive and truck sector, dent removal, maintenance work, scaffolding, wheel removal, tent construction, prefabricated-house construction, carpenter's work, roof work etc

| Material | Handle Material | Handle Length (mm) | Length (mm) | Weight (g) | Art. No. | P. Qty. |
|----------|-----------------|--------------------|-------------|------------|-----------------|---------|
| Steel | Wood | 312 | 365 | 1130 | 715.7220 | 1 |



Art. No. 715.7224 - P. Qty. 1

Black Rubber Insert

- Composite rubber, black
- Medium hard
- Impact cushioning
- Odorless
- Low-wear



Art. No. 715.7223 - P. Qty. 1

Red Plastic Insert

- Plastic, red
- Hard
- Oil and grease resistant
- Universal

REPLACEABLE INSERTS ONLY AVAILABLE THROUGH SPECIAL ORDER.

MACHINIST'S HAMMER WITH PLASTIC HANDLE



Robust 3K hammer handle for use in the toughest conditions

Features:

- Vibration-free working and highly robust hammer
- Aluminium alloy handle core
- Polyamide component is permanently bonded to hammer head
- Additional safety device with steel wedge
- Non-slip for ease of use
- Soft handle in non-slip, thermoplastic rubber

| Hammer weight (g) | Length (mm) | Art. No. | P. Qty. |
|-------------------|-------------|-------------------|---------|
| 300 | 287 | 714.732403 | 1 |
| 500 | 316 | 714.732405 | |
| 1000 | 360 | 714.732410 | |

ROOFING HAMMER



Hammer weight: 600 g

Art. No. 714.733030 P. Qty. 1

Professional roofer's hammer for the most demanding applications

Features:

- High power transmission and long service life thanks to chromium-steel tube handle
- Precision-ground hammer head
- High-quality claw manufacture makes it possible to pull out small and large nails
- Cross-roughened strip prevents slipping upon impact
- With magnetic nail holder

CLUB HAMMER



Robust 3K handle for use in the toughest conditions

Features:

- Sturdy and easy to handle under high-stress conditions
- German type in line with DIN 6475

| Hammer weight (g) | Length (mm) | Art. No. | P. Qty. |
|-------------------|-------------|------------|---------|
| 1000 | 260 | 714.734510 | 1 |
| 1500 | 280 | 714.734515 | |
| 2000 | 300 | 714.734520 | |

RUBBER MALLET TYPE A



DIN 5128

Features:

- Both hammer faces flat
- Varnished ash handle

| Diameter (mm) | Length of head (mm) | Length of handle (mm) | Art. No. | P. Qty. |
|---------------|---------------------|-----------------------|------------|---------|
| 65 | 115 | 340 | 715.73408 | 1 |
| 90 | 135 | 380 | 715.734009 | |

SLEDGEHAMMER



German type in line with DIN 1042, with ash handle

- Material: Steel
- Material of the handle: Wood

| Hammer weight (g) | Length of handle (mm) | Art. No. | P. Qty. |
|-------------------|-----------------------|------------|---------|
| 3000 | 600 | 715.732300 | 1 |
| 4000 | 700 | 715.732400 | |
| 5000 | 800 | 715.732500 | |
| 6000 | - | 715.732600 | |

RALI® PLANE 220



Art. No. 714.6416 - P. Qty. 1

For smoothing and shaving of wood material.

Features & Benefits:

- Replacement blade magazine
- No sharpening or whetting of plane iron thanks to reversible blades
- Wear-resistant metal plane base
- Impact-resistant, manageable plastic housing
- Adjustable plane mouth
- No adjustment work on plane iron thanks to continuously adjustable chip removal



REPLACEMENT BLADES FOR 714.6416 & 714.6417

| Description | Art. No. | P. Qty. |
|----------------------------------|----------|---------|
| Carbide reversible blade | 714.6418 | 1 |
| Reversible blade, chromium steel | 714.6419 | |

RALI® PLANE 105



Art. No. 714.6417 - P. Qty. 1

For smoothing and shaving of wood material.

Features & Benefits:

- No sharpening or whetting of plane iron thanks to reversible blades
- Wear-resistant metal plane base
- Impact-resistant, manageable plastic housing
- Adjustable plane mouth
- No adjustment work on plane iron thanks to continuously adjustable chip removal



REPLACEMENT BLADES FOR 714.6416 & 714.6417

| Description | Art. No. | P. Qty. |
|----------------------------------|----------|---------|
| Carbide reversible blade | 714.6418 | 1 |
| Reversible blade, chromium steel | 714.6419 | |

CHAMFER PLANE



Art. No. 714.6415 - P. Qty. 1

For clean cutting of overhanging edge band.

Features & Benefits:

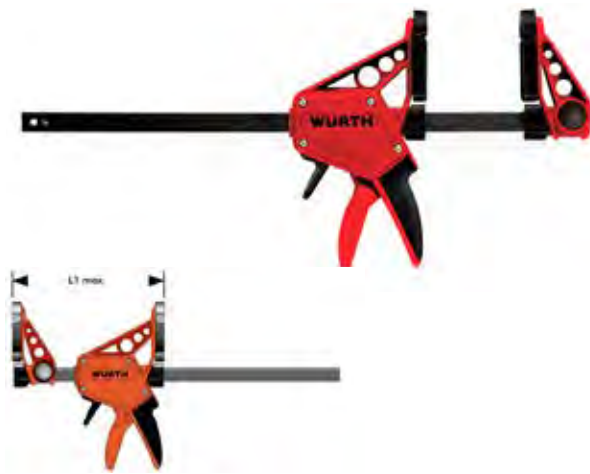
- Includes blade, additional 45° and 30° jaws and stop.
- 30° or 45° chamfers can be cut using the additional jaws.
- Chamfer thickness is adjusted by changing the spacing of the additional jaws.



REPLACEMENT BLADES FOR 714.6415

| Description | Art. No. | P. Qty. |
|-------------|----------|---------|
| HSS blade | 714.6421 | 1 |

ONE-HANDED CLAMP



Clamp, open and spread with just one hand

Clamp workpieces more securely

- 150 kg clamping force
- Deep jaws with cross slot

Excellent, comfortable handle design

- Spray-moulded 2K handle
- No need to reposition your hands, e.g. to open the clamp
- Clamping force is easy to release

Spreading function for increased versatility

- Easy conversion with quick, push-button adjustment

Fixed and sliding bars made of fibreglass-reinforced plastic

- Highly robust for a long service life

Spacer function for increased convenience

- Clamp can be used on a table



"Clamping" mode



Conversion to spreading



"Spreading" mode



One-handed opening

| Max. external clamping width (mm) | Overhang (mm) | Profile thickness (mm) | L1 max. (mm) | Art. No. | P. Qty. |
|-----------------------------------|---------------|------------------------|--------------|------------|---------|
| 150 | 100 | 6 | 410 | 714.662150 | 1 |
| 300 | | | 560 | 714.662300 | |
| 450 | | | 710 | 714.662450 | |
| 700 | | | 960 | 714.662700 | |

SCREW CLAMP, MALLEABLE CAST IRON



Flexible 2K handle

Features:

- Ergonomically engineered design
- Soft casing sits comfortably in the hand for heavy-duty requirements
- Smooth, seamless cap
- Integrated slip guard: Prevents the clamp slipping or loosening
- Wave-reinforced fixed and sliding bars in high-quality malleable cast iron, powder coated
- High-quality hollow profile track for reinforcement against torsion forces with 6-fold ribbing

| Max. external clamping width (mm) | Overhang (mm) | Profile width (mm) | Profile thickness (mm) | Art. No. | P. Qty. |
|-----------------------------------|---------------|--------------------|------------------------|------------|---------|
| 160 | 80 | 25 | 6 | 714.673116 | 1 |
| 200 | 100 | 27 | 7 | 714.673120 | |
| 250 | 120 | 29 | 9 | 714.673125 | |
| 300 | | | | 714.673130 | |
| 600 | | | | 714.673160 | |
| 800 | | | | 714.673180 | |

SINGLE HAND SUCTION HANDLE



Art. No. 715.5801 P. Qty. 1

- Weight: 320 g
- Diameter suction handle: 130 mm
- Load capacity: approx. 30 kg
- Power direction of the suction disc: vertical

SUCTION LIFTER



Art. No. 715.58015 P. Qty. 1

One-hand suction with quick release button

Fast and efficient working

- Thanks to a one-hand operation and quick suction

Also suitable for sensitive glass panes

- Because of the low vacuum volume, thin glass panes can also be held/transported without being damaged

For holding/transporting smaller objects

- Because of smaller diameter of suction head
- Lifts up to 8kg

VACUUM LIFTER

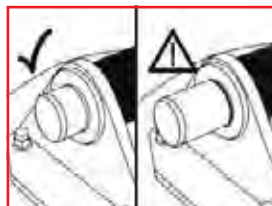


Art. No. 714.58045 P. Qty. 1

With vacuum pump and vacuum indicator in practical storage case

Features:

- High load capacity and safety reserves
- Easy to carry thanks to padded, non-slip handle
- Ergonomic holding area thanks to large reach-through height
- Diameter: 210 mm
- Load capacity: 120 kg



SAFE WORKING
thanks to vacuum
verification via
marking ring

WINDOW LEVELLING TOOL



| | |
|-------------------------------------|----------|
| Min. / Max. spreading height | 10-21 mm |
| Length | 360 mm |
| Spreading range | 21 mm |

Art. No. 715.67120 2 pcs.

For the fast and simple assembly of windows and doors

Features:

- Rotating the handle pushes the two metal plates against one another, allowing the windows to be adjusted and braced very precisely during installation
- The smooth surface of the metal plates means the window can still be aligned after bracing
- Handle made from 2K plastic
- Flexible shank between handle and metal plates
- Can be used even in tight spaces

PANEL GRIP



| | |
|-----------------------------------|---------|
| Min. / Max. clamping width | 0-60 mm |
| Max. loading weight | 120 kg |
| Length | 240 mm |
| Height | 170 mm |
| Width | 150 mm |

Art. No. 715.6745 Qty. 2

Panel grip for transporting and lifting panels and boards easily

Features:

- Clamping jaws made from high-quality plastic with a vulcanised rubber coating, for an extremely secure grip and a long service life.
- Clear rubber coating prevents colour from the jaw marking the workpiece.
- Ergonomically designed handles
- Fork shape means clamping jaws can be pushed into the part to be lifted from either the side or the front.

GLASS GRIP



| | |
|-----------------------------------|-----------|
| Min. / Max. clamping width | 40-100 mm |
| Max. loading weight | 120 kg |
| Length | 240 mm |
| Height | 170 mm |
| Width | 235 mm |

Art. No. 715.6746 Qty. 2

Glass grip for transporting and lifting windows and panels easily

Features:

- Extremely secure grip and long service life owing to clamping jaws made from high-quality plastic with vulcanised rubber coating
- Clear rubber coating prevents colour from the jaw marking the workpiece
- Ergonomically designed handle
- Fork shape means clamping jaws can be pushed into the part to be lifted from either the side or the front.

PANEL POPPER SET



Art. No. 714.58245 Qty. 12

Made from glass-fiber reinforced plastic, these tools are designed to help with the safe and easy removal of door trim panels, trim fasteners, body clips, mouldings etc.

- Designed and manufactured from high quality materials ensuring surrounding trim areas are not damaged when trim is being removed
- Fits a comprehensive set of applications ranging from internal door trims, facia and most other internal & external vehicle trims
- The panel popper kit works with European, Japanese and Domestic trim applications and is not vehicle specific
- Set of 12 assorted Panel Poppers, supplied in a convenient roll-up pouch

Applications:



CLIP REMOVER



To release clamps and clips

Features:

- For easy removal of clips.
- Special blade opening of 7 mm protects the clips while removing them
- Nickel-plated chrome vanadium steel blade.
- Comfortable 2K handle

| Blade length | Blade opening | Art. No. | Qty |
|--------------|---------------|----------|-----|
| 12 cm | 7 mm | 714.3453 | 1 |

BODY CLIP REMOVAL PLIERS



Art. No. 714.500

- For easy removal of mouldings and bumper rubber strips.
- Does not damage the door lining.
- Blade Opening: 11 mm.

BODY VICE-GRIP PLIERS



| Clamping width | Clamping depth | Jaw width | Length | Art. No. | Qty. |
|----------------|----------------|-----------|--------|-----------|------|
| 0 mm to 15 mm | 9 mm | 40 mm | 210 mm | 713.09300 | 1 |

“LL” Model

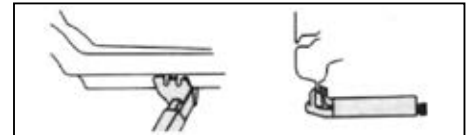
- For plug welding between the jaws.
- For use on door sills, wheel arches, roof skin, side panels and problem areas.
- Suitable for U-profiles.



| Clamping width | Clamping depth | Jaw width | Length | Art. No. | Qty. |
|----------------|----------------|-----------|--------|-----------|------|
| 0 mm to 15 mm | 36 mm | 57 mm | 195 mm | 713.09301 | 1 |

“W” Model

- For spot welding between openings.
- For use on door openings, side panels and folded metal sheets.



| Clamping width | Jaw width | Length | Art. No. | Qty. |
|----------------|-----------|--------|-----------|------|
| 0 mm to 18 mm | 18 mm | 195 mm | 713.09302 | 1 |

“L” Model

- Especially suitable for work on curves thanks to the slim shape.
- For use on door openings, lower center rear-end parts, wheel arches and problem areas.



| Clamping width | Clamping depth | Jaw width | Length | Art. No. | Qty. |
|----------------|----------------|-----------|--------|-----------|------|
| 0 mm to 15 mm | 7 mm | 18 mm | 205 mm | 713.09303 | 1 |

“J” Model

- For working on U-profiles and welds infolds.
- For use on center rear-end parts, rear side panels and U-shaped body profiles.



| Clamping width | Clamping depth | Jaw width | Length | Art. No. | Qty. |
|----------------|----------------|-----------|--------|-----------|------|
| 0 mm to 15 mm | 27 mm | 40 mm | 230 mm | 713.09304 | 1 |

“JJ” Model

- With wide opening.
- For use on center rear-end parts and side panels, for clamping “z-shaped” profiles, e.g. tail light mounts.



AMO BAG AIR WEDGE

Art. No. 715.6780 P. Qty. 1

Fibre reinforced plastic bag with high load-bearing capacity (100 kg)

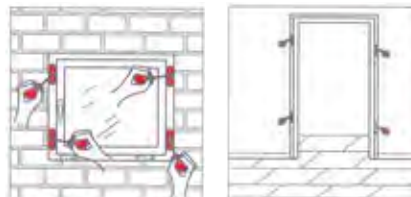


- Easy to inflate/release system by small pump and release valve
- Prevents costly locksmith charges
- Use for prying objects apart (windshields, headlights, etc.)
- Allows one person to complete a job that normally requires two persons
- Avoid scratches on the surfaces
- Handy, strong and durable
- Reusable

Automotive applications:

- Opening of car or truck doors (i.e. if you accidentally forget the keys inside)
- Removing of windshield or sealed windows on cars, trucks, caravans, boats, etc.
- Substitution of headlights, bumpers, etc.

General applications:



Installation of windows and doors

Note: The air wedge is not puncture resistant!



Positioning cabinets



Lifting doors



Protection of shipments



PREMIUM HAND HELD RIVETER



Additional tools:

Mouth piece, 4.0mm blind rivet, **Art. No.**

P. Qty: 1

Mouth piece, 4.8mm blind rivet, **Art. No. 915.150**

P. Qty: 1

Replacement clamping jaws, **Art. No. 946.10**

P. Qty: 1

Art. No. 915.11

Universal, hand-held steel riveting pliers with exchangeable mouth pieces for the installation of commercial rivets made of aluminum, copper, steel and stainless steel.

Features:

- Diameters of 4.0mm and 4.8mm
- Requires low exertion of force in case of short lever distance
- Particularly well-suited for hollow profiles

Technical data

| | |
|--|------|
| Length, mouthpiece mounting (including mouthpiece) | 52mm |
| Diameter, mouthpiece mounting | 19mm |

HEAVY DUTY RIVET GUN



Art. No. 949.120

For blind rivets

Features:

- Nose: 1/8" - 1/4"

Recommended:

Use with **Art. No. 502.11620, 502.11621, 502.12653** and Prefixes **932 & 945**

RIVET GUN FOR PEEL TYPE RIVETS



Additional tools:

Nose piece for 1/4" 'Peel Type' rivets, **Art. No. 949.1311853**



Art. No. 949.13

For setting 3/16" and 1/4" rivets.

Recommended:

Use with **Art. No. 502.11620, 502.11621, 502.12653** and Prefixes **932 & 945**

Additional tools:

Replacement jaws, **Art. No. 949.1314799**



RIVET GUN FOR PLASTIC AND NYLON RIVETS



Art. No. 949.2

A durable tool that sets all sizes with a single stroke.

Features:

- All steel construction.
- 6-1/2" overall length.

Note: Not for use with metal rivets.

HAND-HELD RIVET SET ASSORTMENT



Art. No. 5964.094803 16 pc Kit

Hand-held rivet setting pliers with quick-change system for processing blind rivet nuts and M4–M12 bolts.

- Requires less force compared to manual setting pliers
- Quick-change system for mandrels and sleeves
- Clear stroke scale
- Easy to use in hard to reach areas
- Colour coding system for nozzles
- 16 pieces in a durable case

For processing:

- Blind rivet nuts M4 to M12 aluminium/

steel/stainless steel

- Blind rivet studs M5/M6/M8 aluminium/steel/stainless steel

Approved Tool for Land Rover/Jaguar

All items in kit available only through special order

Min./max. diameter of rivet-nut thread4mm-12 mm

Min./max. rivet diameter.....

2.4mm-6.4 mmw

HAND RIVET GUN HNG26

30%
lighter than
original model!



Redesigned
Body and Pin Catcher

Improved
Handles and Grips



Art. No. 949.610

Hand-held riveter for blind rivets with 3.0-6.4 mm diameter

- For installing blind rivet with 3.0–6.4 mm dia. in all materials
- Colour indicated nose pieces
- With pin catch container
- Lightweight aluminum arms
- Integrated body design for increased safety
- High quality ABS tool case in foam inlay



Recommended:

for use with Honda rivets 6.4mm

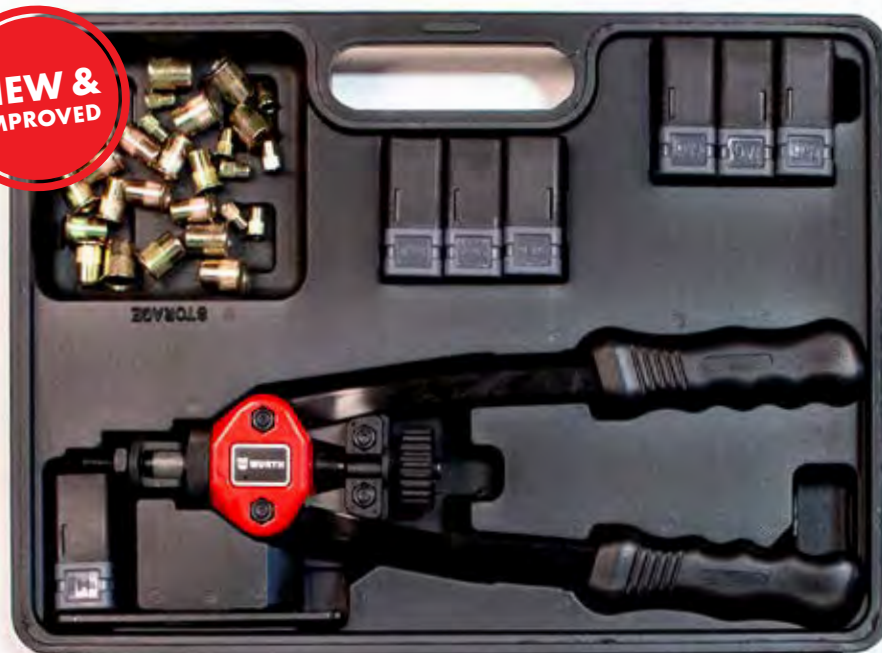
| Contents | Art. No. | P. Qty. |
|--|-----------------|---------|
| Mouthpiece for rivet sleeves with 3.0–3.2 mm dia. Hole dia. of mouthpiece: 2.3 mm | 946.5632 | 1 |
| Mouthpiece for rivet sleeves with 4.0 mm dia. Hole dia. of mouthpiece: 2.8 mm | 946.5640 | |
| Mouthpiece for rivet sleeves with 4.8–5.0 mm dia. Hole dia. of mouthpiece: 3.2 mm | 946.5650 | |
| Mouthpiece for rivet sleeves with 6.0 mm dia. Hole dia. of mouthpiece: 3.7 mm | 946.5660 | |
| Mouthpiece for rivet sleeves with 6.4 mm dia. Hole dia. of mouthpiece: 4.6 mm | 946.5680 | |
| Metal carrying case, black | - | |
| Universal key | - | |

*Clamping Jaw replacement HNG26 – Art. No. 946.56

*Articles in red are special orders only

STANDARD & METRIC MANUAL RIVNUT SETTER ASSORTMENT

NEW & IMPROVED



Art. No. 948.800600

13" nut/thread setting hand rivnut kit with 3 Metric and 4 SAE nosepieces and rivnut assortment

This 13" Rivetnut Gun is equipped with a quick change head assembly that easily allows the operator to change between mandrels without the use of tools. Installs Metric M5, M6, M8 and SAE 10-24, 1/4 20, 5/16-18, 3/8-16 rivet nuts.

Features:

- Patented structure increases power and reduces shock
- Shorter handle with double compound hinges that maximize leverage
- Versatile and powerful hand nut/thread setting riveter, takes the hard work out of setting rivet nuts
- Ideal for working in hard-to-reach area
- Ergonomic grip for easy operation

Included:

- 13"(330mm) Hand Nut/Thread Setting Riveter
- 7 interchangeable mandrel/nosepiece sets in Metric M5-0.8, M6-1.0, & M8-1.25 and in SAE 10-24, 1/4-20, 5/16-18, and 3/8-16
- 10 pieces of each of the following rivet nuts: M5-0.8, M6-1.0, M8-1.25, 10-24, 1/4-20, 5/16-18, and 3/8-16

THIS PRODUCT IS REPLACING RIVNUT KIT 948.8005 WHICH IS NOW DISCONTINUED. ALL NOSE PIECES & MANDRELS OF ALL PREVIOUS MODELS ARE NOT COMPATIBLE WITH THIS NEW MODEL OR VICE VERSA.

| METRIC SIZE | | RIVNUT | | MANDREL | | NOSE PIECE | |
|-------------|--------------|------------|---------|------------|---------|------------|---------|
| Nut Size | Drill Size | Art. No. | P. Qty. | Art. No. | P. Qty. | Art. No. | P. Qty. |
| M5 | 7 mm (9/32") | 942.350005 | 10 | 948.800630 | 1 | 948.800631 | 1 |
| M6 | 9mm (3/8") | 942.350006 | | 948.800628 | | 948.800629 | |
| M8 | 11mm (7/16") | 942.350008 | | 948.800638 | | 948.800639 | |

| SAE SIZE | | RIVNUT | | MANDREL | | NOSE PIECE | |
|-----------|---------------|------------|---------|------------|---------|------------|---------|
| Nut Size | Drill Size | Art. No. | P. Qty. | Art. No. | P. Qty. | Art. No. | P. Qty. |
| 10 - 24 | 7 mm (9/32") | 942.350010 | 10 | 948.800634 | 1 | 948.800635 | 1 |
| 1/4 - 20 | 9mm (3/8") | 942.350014 | | 948.800632 | | 948.800633 | |
| 5/16 - 18 | 11mm (7/16") | 942.350016 | | 948.800626 | | 948.800627 | |
| 3/8 - 16 | 13mm (17/32") | 942.350038 | | 948.800636 | | 948.800637 | |



RIVNUTS



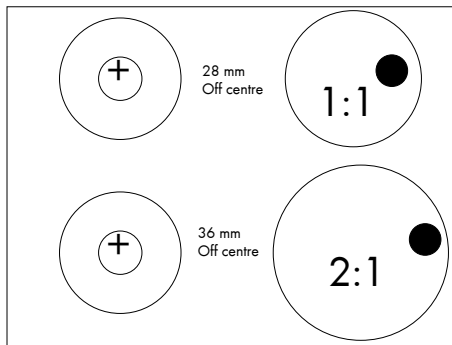
NOSE PIECES & MANDRELS

MAIN BODY FOR RIVETNUT GUN

Art. No. 948.800601

*All other spares only available through special orders

MULTI-PURPOSE DUAL CARTRIDGE CAULKING GUN



Mixing Ratio Cartridges:

Art. No. 891.0092

Pre-assembled gun, ready for 1:1 ratio use with 220 mL cartridges. Gun can also be changed-over for use on 2:1 applications.

Application:

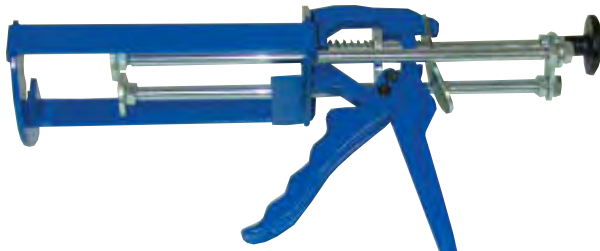
1. Place applicator with knob on the floor.
2. Put both thumbs on front plate and fingers behind the disk you desire to remove.
3. Move fingers forward toward thumbs until disk snaps off rod. If the disk is hard to remove, use a rubber mallet and gently tap until disk becomes loose.

Attaching push disk(s):

1. Put socket of push disk over rod shaft.
2. Push firmly onto the rod shaft until disk snaps in place. There should be two snapping sounds which will ensure the disks are firmly attached. Some twisting of the push disk may be required to achieve the second snap.
3. Both disks should be parallel with each other. This will ensure proper mixing of materials.

Note: To be used with Power Bond (Art. No. 893.450100 - replacement nozzles Art. No. 891.609) as a 2:1 ratio, and with Replast Easy (Art. No. 893.50002 to 893.50009 - replacement nozzles Art. No. 891.604) as a 1:1 ratio.

DUAL CARTRIDGE CAULKING GUN



Art. No. 891.0091

For application of Replast Easy cartridges with 220 mL contents

- Durable high-strength steel construction
- Ergonomic center balanced design
- Adjustable plungers to dispense 2:1 ratio cartridges
- Smooth, easy dispensing action
- Cartridge holder removable for easy cleaning
- Will not dispense product when not being squeezed

HEAVY DUTY CAULKING GUN



Art. No. 891.0095

- 26:1 thrust ratio.
- Extra durable heat-treated piston rod.
- Hammer finished zinc alloy handle with comfort grip.
- Precision sintered friction plate.
- Easy release star-burst reverse punched gripping plate.
- Ladder hook.
- Weight: 1.14 kg (2.5 lbs)

HEAVY DUTY CAULKING GUN



Art. No. 891.00

- For application of 310 mL cartridges.
- Will not dispense product when not being squeezed.

HEAVY DUTY DOUBLE CARTRIDGE CAULKING GUN



Art. No. 891.0096

- For use with 400 mL Replast Easy cartridges
- Heavy duty double cartridge gun for professional use
- converts easily for mixing ratio's of 1:1, 2:1, 4:1 and 10:1 using snap-in, snap-out push disks
- Extra durable, heat treated piston rod.
- Precision centered friction plate.
- Hammered finish alloy handle with comfort grip.
- 26:1 Thrust ratio

CARTRIDGE ADAPTER



Art. No. 891.9001

Adapts ordinary caulking gun for use with 50 mL Würth Fix cartridge (**Art. No. 890.480132, 891.480104**)

GUN FOR 50 ML WÜRTH FIX RIGID AND FLEXIBLE



Art. No. 891.0093

Special gun to be used with Würth Fix Rigid (**Art. No. 890.480132**) or Würth Fix Flexible (**Art. No. 891.480104**)

PNEUMATIC IMPACT GUN DSS 1/2" PREMIUM POWER

Art. No. 5714.3010 P. Qty. 1

High-quality impact wrench in robust, fibreglass-reinforced plastic housing, with excellent performance and enhanced features.

Features:

- Excellent power-to-weight ratio
- Up to max. 1,321 Nm (974 ft-lb) for releasing torque at a weight of 1.98 kg.
- Reliable maximum performance values and a long service life
- High-quality double impact mechanism and balanced cylinder with 6-disc motor
- Optimal, user-friendly adjustment to the respective application at all times
- 4-stage power setting with convenient one-handed conversion
- Good handling with slip-resistant handle, optimum control and low sound level.
- Highly-ergonomic soft grip with sensitive trigger and integrated silencer

Maintenance Instructions:

- Oil should be added through the air inlet daily & gear grease should be added monthly via the grease nipple

ATTENTION!:

- For professional use only
- 1 year warranty



Recommended:

- 1/4 inch Nipple - **884.2424604**
- Pneumatic Tool Oil - **893.0505**



| Technical Information: | |
|--------------------------|-----------------------|
| Tip Size | 1/2 inch |
| Maximum Working Torque | 835 Nm (615 ft-lb) |
| Maximum Releasing Torque | 1321 Nm (974 ft-lb) |
| Sound-Pressure Level | 80.6 dB |
| Vibration | 7.78 m/s ² |
| Weight of Machine | 1980 g |

PNEUMATIC IMPACT WRENCH REBUILD KIT

Art. No. 5814.301000

Repair Kit for 5714.3010 - 24 pcs.

| PARTS LIST: | |
|----------------------------|---------|
| Description | P. Qty. |
| Hammer case grease fitting | 1 |
| Packing-hammer case | 1 |
| O-rings | 8 |
| Bearings | 2 |
| Blades | 6 |
| Seal bushing | |
| Seal | |
| Tip valve | 1 |
| Spring | |
| Muffler | |
| Spring pin | |



PNEUMATIC IMPACT WRENCH DSS 1" PLUS

Art. No. 703.3260 - P. Qty. 1



Durable and powerful impact wrench with outstanding power-to-weight ratio.

Features:

- Excellent power-to-weight ratio
- Up to max 3119Nm (2300ft-lbs) releasing torque at a weight of 8.43Kg (18.59lbs)
- High quality pin-less striking mechanism and cylinder with six-blade motor
- For reliable maximum power levels and providing a long service life
- Highly ergonomic handle with sensitive trigger and integrated silencer
- Good handling with slip-resistant handle for optimum control
- Low sound level
- Three-step torque level setting for both clockwise and anti-clockwise rotation
- Exhaust air positioned away from the work area prevents dust and dirt on the wheel rim from being stirred up

Instructions:

- When the impact wrench is used regularly (e.g. for tire maintenance), a little oil should be added through the air inlet, and approximately 2 strokes of gear grease should be added monthly via the grease nipple

Notice:

- Recommended maximum bolt size: M38 (1 1/2" bolt diameter)
- Impact wrenches are not torque wrenches
- Connections requiring a specific torque must be checked by means of a torque-measuring device after tightening with the impact wrench
- Plug-in nipple not included in the scope of delivery

| Description for 730.3260 | |
|---------------------------|-------------------------|
| Square tool holder | 25mm (1") |
| Maximum torque | 3119Nm (2300 ft-lbs) |
| No-load speed | 5500rpm |
| Sound-pressure level | 94 dBw |
| Min. Hose diameter | 13mm (1/2") |
| Operating pressure (max.) | 6.3 Bar (91.37 PSI) |
| Average air consumption | 340 l/min |
| Vibration emissions | 14.697 m/s ² |
| Weight of machine | 8.43Kg (18.59lbs) |

For professional use only.

1/4" MEDIUM DIE GRINDER



Art. No. 703.210 - Qty. 1

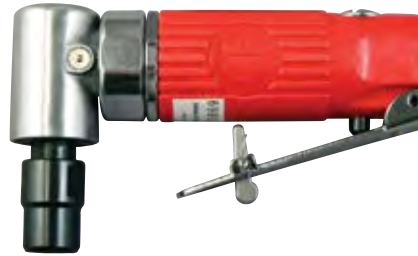
Features:

- Positive Grip - 1/4" capacity collet chuck.
- Compact and lightweight design.
- Lever throttle for variable speed control.
- Rib textured handle provides a firm grip.
- Rear exhaust air flow system directs air away from work surface.

Specifications:

- Collet size: 1/4".
- Free speed: 22,000 rpm.
- Overall length: 5-3/4"/146 mm.
- Net weight: 1-1/4 lbs./.6 kg.
- Motor: 1/2 hp.
- Air inlet thread NPT: 1/4".
- Air hose I.D. size: 3/8"/10 mm.
- Avg. air consumption.: 4 cfm.
- Air pressure: 90-120 psi.

1/4" 90° DIE GRINDER



Art. No. 703.00875

Features:

- Positive Grip - 1/4" capacity collet chuck.
- Lever throttle for variable speed control.
- Compact and lightweight design.
- Front exhaust.

Specifications:

- Collet size: 1/4".
- Free speed: 20,000 rpm.
- Overall length: 5"/127 mm.
- Net weight: 1 lbs./.45 kg.
- Motor: 1/3 hp.
- Air inlet thread NPT: 1/4".
- Air hose I.D. size: 3/8"/10 mm.
- Avg. air consumption.: 3 cfm.
- Air pressure: 90-120 psi.

1/8" PENCIL TYPE DIE GRINDER



Art. No. 703.218

Features:

- Ideal for tight spots.
- Designed for high speed porting and finishing of small parts.

Specifications:

- Collet size: 1/8".
- Free speed: 56,000 rpm.

- Overall length: 5-1/4"/133 mm.
- Net weight: 1/4 lbs./.11 kg.
- Air inlet thread NPT: 1/4".
- Air hose I.D. size: 3/8"/10 mm.
- Avg. air consumption.: 4 cfm.
- Air pressure: 90-120 psi.
- Hose length: 5'.

COMPRESSED AIR BRUSH GRINDER

Art. No. 703.3600 - Qty. 1



Time saving system for removal of under body protection, sealing compounds, paint, rust and film. Particularly well suited for cleaning weld beads during repair work, paint and rust removal for all bodywork areas, as well as removal of protective paint from repair panels.

Features:

- Flexible belts with high performance polyamide fabric backing and U-shaped spring steel wires adapt well to edges and contours.
- High quality components.
- Excellent speed control by means of sensitive trigger.
- Compact, slim design for access to difficult areas.
- Auxiliary handle equally suited for right or left-handed work.
- Air exhaust exits to the rear.

Your advantages:

- No heating up of treated areas.
- No smearing or loading of the tool.
- Longer service life of the brushes.
- Significantly faster work progress.
- Versatile application possibilities due to various brush types.
- Very light and handy tool.

Brush Applications

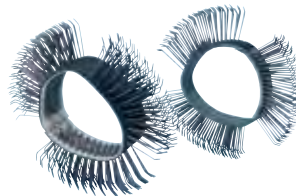


SS DBS Brush

23 mm: Art. No. 703.3504 - Qty. 1
11 mm: Art. No. 703.35041 - Qty. 1

SS DBS Brush

Perfectly suited for removing paint and corrosion on aluminum bodies, boats and superstructures. These belts are especially well suited in riveted areas on truck bodies.

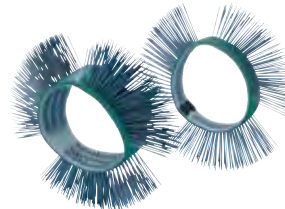


Coarse Brush

23 mm: Art. No. 703.3501 - Qty. 1
11 mm: Art. No. 703.35051 - Qty. 1

Coarse Brushes

Use for: removal of under body protection and sealing compounds as well as rapid paint removal. Especially well-suited for cleaning weld beads, contours and edges. Creates sand blasting type finish, provides good adhesion for tin-plating and fillers.



Fine Brush

23 mm: Art. No. 703.3503 - Qty. 1
11 mm: Art. No. 703.35031 - Qty. 1

Fine Brushes

Use for: rust removal and cleaning, removal of seals from grey casting. Not suitable for aluminum and aluminum die casting. Also used for paint removal in contours and sharp-edged areas with 90° angles. Does not create sand blasting finish.



Nylon Abrasive Wheel

Art. No. 585.1100 - Qty. 1

Nylon Abrasive Wheel

Use for: cleaning of weld seams, metal surfaces, wood and plastics. Removal of blooming discoloration, cinder, rust, corrosion, dirt and oxide layers, coatings, paint, synthetic resins, adhesives, gasket residue, cement, concrete residue. Preparing and roughing of surfaces.



DBS Adaptor - 23mm

Art. No. 703.3602 - Qty. 1

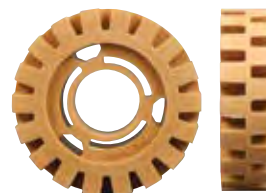
For use with: Art. No. 703.3501, 703.3503, 585.96, 585.91



DBS Adaptor - 11mm

Art. No. 703.36021 - Qty. 1

For use with: Art. No. 703.35051, 703.35031



Rubber Eraser Wheel

For water-based paints: Art. No. 585.96 - Qty. 1
For general use: Art. No. 585.91 - Qty. 1

Rubber Wheels

Use for: removal of adhesive film, decals and glue residue from metal and paintwork. Twice the contact surface compared to a conventional film remover. This, and the higher speed, results in significantly quicker removal of material.

DBS 3600 ACCESSORIES





Art. No. 703.3601



Contents:

| Description | Art. No. | Qty. |
|---------------------------|------------------|------|
| DBS Brush Grinder | 703.3600 | 1 |
| Coarse Brush (23 mm) | 703.3501 | 1 |
| Coarse Brush (11 mm) | 703.35051 | 1 |
| Fine Brush (23 mm) | 703.3503 | 1 |
| Fine Brush (11 mm) | 703.35031 | 1 |
| Nylon Fibre Grinding Disc | 585.1100 | 2 |
| Rubber Eraser Wheel | 585.91 | 1 |
| Adaptor (23 mm) | 703.3602 | 1 |
| Adaptor (11 mm) | 703.36021 | 1 |

DBS 3600 REPLACEMENT PARTS

For tools purchased after May 2010

| Photo | Description | Art. No. | P. Qty. |
|---|--|-------------------|---------|
|  | Toothed Drive Belt for new DBS 3600 Schematic Picture #34 | 709.360034 | 1 |
|  | Toothed Pulley - Spindle Assembly Schematic Picture #49 | 709.360049 | 1 |

| Photo | Description | Art. No. | P. Qty. |
|---|--|-------------------|---------|
|  | Bevel gear set Schematic #31 & 32 | 703.350032 | 2 |
|  | Left-hand Bevel Gear for Motor with grooved shaft Schematic Picture #30 | 709.360030 | 1 |

Note: A complete exploded view of the parts is available on Wurthnet\ Technical Information. Additional replacement parts are available through Special Orders

BELT SANDER PNEUMATIC 1/2" X 18"



Art. No. 703.2712 - P. Qty. 1

Belt sander for removing Spot Welds and rough edges on auto body applications.

Features:

- Variable speed control
- Belt tension lever
- Non-slip handle grip
- Adequate space in the pulley system to allow for thicker belts

| Technical Specifications | |
|--------------------------|------------------|
| Free Speed | 16,000 rpm |
| Size of Belt | 1/2" X 18" |
| Air Consumption | 4 cfm |
| Overall Length | 15.15" (385mm) |
| Net Weight | 1.98 lbs (0.9Kg) |
| Air Inlet | 1/4" |
| Air Pressure | 90 psi |

Art. No. 703.271201 *NEW*



Idle Pull Assembly for 703.2712

NOTE: All other spare parts and accessory can be purchased through special orders.



Recommended Belts:

Prefix: 672.419...

6" HEAVY DUTY ORBITAL SANDER



| Technical Information | |
|-----------------------|------------------|
| Item | Description |
| Pad size | 6" |
| Free speed | 10,000 rpm |
| Overall length | 7" (17.78 cm) |
| Net weight | 1.5 lbs (.68 kg) |
| Spindle thread size | 5/16" x 24 |
| Air inlet thread NPT | 1/4" |
| Air hose I.D. size | 3/8" (10 mm) |
| Avg. air consumption | 5.5 cfm |
| Air pressure | 90 psi |
| Stroke finish | 3/32" (2.5 mm) |

Art. No. 703.307

Features & Benefits:

- Sealed bearings for extended life
- Super lightweight and compact for minimum operator fatigue
- Orbital action for final swirl-free finish
- Noise reduction design
- Low vibration
- Built-in speed regulator
- Comes with 6" PSA pad

PNEUMATIC JIGSAW DST 380 STANDARD



Art. No. 703.883 - P. Qty. 1

Robust saw for long service life and tough applications

Features:

- Safety valve lever prevents accidental switch on
- Rubber-coated handle area for pleasant working conditions
- Saw blade can be turned 180° for working overhead
- Integrated power control for respective application
- Adjustable guide enables exact adjustment of cutting depth
- Ideal for cutting aluminum, plastic, fiberglass (max. 4 mm) and metal sheets up to 1.6 mm

| Technical Information | |
|-----------------------|-----------------|
| Idle Stroke Speed | 9000 U/min(rpm) |
| Air Consumption | 113 l/min |
| Length | 235 mm |
| Working Pressure | 90 psi |
| Min. Hose Diam. | 10mm |
| weight | 0.5kg |

ALWAYS FOLLOW SAFETY INSTRUCTIONS WHEN USED REGULARLY, THE MACHINE SHOULD BE OILED EVERY DAY.



REPLACEMENT BLADES
Prefix. 696.

3/8" REVERSIBLE AIR DRILL



Art. No. 703.15027

Features:

- 1,800 rpm.
- Lightweight compact size and is easy to handle.
- Reversible control lever for convenient, one-handed operation.
- Handle exhaust directs air away from work.
- Built-in muffler for noise reduction.
- Planetary gear system for long life.

Specifications:

- Chuck capacity: 3/8".
- Free speed: 1,800 rpm.
- Overall length: 8"/203.2 mm.
- Net weight: 3 lbs/1.38 kg.
- Air inlet thread NPT: 1/4".
- Air hose I.D. size: 3/8"/10 mm.
- Avg. air consumption.: 17 cfm.
- Air pressure: 90-150 psi

VARIO DRILL VD90



Art. No. 703.090

For quick and easy detachment of spot welds.

- The 360°-rotatable contact arm prevents slipping and ensures easy working, even in hard-to-reach places
- The contact arm can be mounted quickly and without additional tools.
- The cutting depth is continuously adjustable and is not affected by the contact arm
- Use only original HSCO spot weld cutters
- 1-year warranty

Technical Data

| | |
|--------------|-----------|
| Speed | 1,300 rpm |
| Air Pressure | 6 - 8 bar |
| Weight | 1,800 g |
| Air Consump | 250 L/min |

| Contents 703.090 | Art. No. | P. Qty. |
|----------------------------------|---------------|---------|
| Vario Drill VD90 | — | 1 |
| Allen Wrench, size 2 mm | — | 1 |
| HSCO Spot Weld Cutter, 6 mm dia. | 710.60 | 1 |
| HSCO Spot Weld Cutter, 8 mm dia. | 710.80 | 3 |
| HSCO Spot Weld Cutter, 9 mm dia. | 710.90 | 1 |

Available Accessories:

**Available through special orders only*



Allen Counter Bearing for Cutter
Art. No. 0703 090 001



Cutter Securing Screw
Art. No. 0703 090 002



Sound Absorber (on handle)
Art. No. 0703 090 003

WHEEL NUT LOOSENER - CARGO NUT BUSTER



Art. No. 714.15000

- Bust Loose the most stubborn wheel nuts
- Use on Commercial or Agricultural Wheels
- Gear Ratio - 58:1
- Rated Output Torque - 2950 ft lbs
- Two Sockets Included 1 1/2"(38mm) & 1 5/16"(33mm)
- 1" drive

Contents



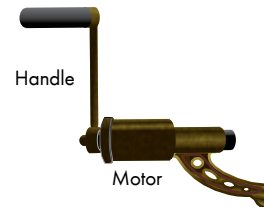
Blow Molded Case



Sockets

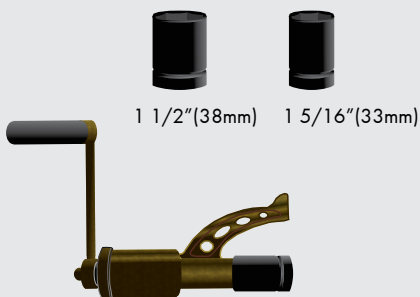


1.1 Connection Rod

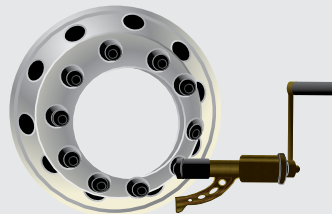


Main Body

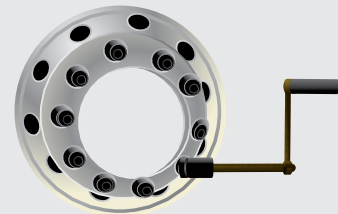
Instructions



Fix suitable socket onto front square tenon of main body



Fix socket onto the nut/bolt and loosen the nut/bolt one or two rotations



Change socket and handle over to 1:1 Connecting Rod to completely remove the nut/ bolt

WHEEL NUT LOOSENER - AUTO NUT BUSTER



Art. No. 714.15001

- Bust Loose the most stubborn wheel nuts
- Use on passenger and light-duty truck wheels
- Gear Ratio - 18:1
- Rated Output Torque - 855' lbs
- Three Sockets Included 1 1/16" (17mm), 3/4" (19mm) and 13/16" (21mm)
- 1/2" drive

| Size (in) | Size (mm) | Drive |
|-----------|-----------|-------|
| 1 1/16" | 17 mm | 1/2" |
| 3/4" | 19 mm | |
| 13/16" | 21 mm | |

Contents



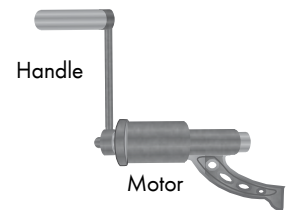
Blow Molded Case



Sockets



1.1 Connection Rod



Main Body

GREASE JOINT CLEANING TOOL



Art. No. 986.014

Frees up the grease joints and fittings, enabling them to be greased again.

The Grease Joint Cleaning Tool allows a clogged grease fitting or joint to take on fresh grease by injecting light penetrating oil into the grease joint via the grease fitting, breaking up and removing any dirt, rust or debris.

Easy to use: First remove the piston from the tool body and fill it with a non-aerosol penetrating oil, such as the Würth Pneumatic Tool Oil (Art. No. 893.0505). Once the tool body has been filled, reinsert the piston, gently working it into the bore of the body. Be sure to clean the piston and O-ring before inserting.

When the piston is inserted into the tool body, air may get trapped inside. Any air left in the tool reduces the hydraulic pressure, causing the tool to be less effective. After filling the tool body with light, penetrating oil, put the piston back and turn the tool upside down to allow the air bubble to float to the top. Place a rag over the end of the tool and tap on the piston lightly with your hand until the air bubble is forced out. When bleeding, be sure to keep your face and eyes away from expelling air and fluid. If the piston bounces back when tapped, it has air in it.

Comes with a flexible extension for hard to reach areas: Some applications may require the use of the Flexible Extension to make a bend. To install the flex hose, remove the female grease coupler from the tool. Using sealant tape, install the flex hose into the tool body, then install the grease coupler on the end of the hose. This gives you flexibility when trying to access tight places.

HAND LEVER GREASE GUN



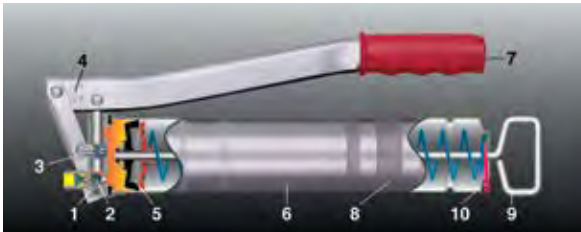
Art. No. 986.00

- For 500 cm³ bulk grease, 400 g cartridges, (235 x Ø 53.5 mm).
- Feed volume adjustable up to 1.5 cm³.
- Operating pressure 400 bar/5 800 psi.
- Max. pressure up to above 800 bar/11 600 psi.
- Actuating force 50 to 330 N at feed pressures of 50 to 400 bar (725 to 5 800 psi)

Additional tools:

Heavy Duty Grease Gun End 4-Prong M10 X 1 **Art. No. 986.003**

Grease Gun End 1/8 NPT **Art. No. 715.15688**



1. Precision steel pump, no "false lubrication", no seals to wear out.
2. Short stroke feed system, grease feed possible at any opening angle, two inlet openings, good grease flow even at low temperatures.
3. Filling and air bleeding valve. Filling possible with cartridges or bulk grease with filling device.
4. Metering gauge for controlled grease output.
5. Grease and oil resistant special seal piston.
6. Sturdy precision tube.
7. Ergonomically designed safety handle.
8. No-slip knurling in the grip area.
9. Close piston rod handle.
10. Fixing system—indeinitely adjustable, slip-proof piston rod fixing—no inadvertent operation!

The design corresponds to DIN 1283 (M10 x 1) and has been certified by TUV/GS, BLT and DLG.

GREASE GUN HOSE



- Manufactured from 3/16" I.D. S.A.E. 100R1 rubber hose
- The one braid hose is permanently crimped with 1/8 brass male pipe couplings on both ends
- To be used with hand held grease guns

| Length (in) | Working Pressure (PSI) | Burst Pressure (PSI) | Art. No. |
|-------------|------------------------|----------------------|------------------|
| 12 | 3,000 | 12,000 | 715.16279 |
| 18 | 3,000 | 12,000 | 715.16280 |

AIR REGULATOR WITH GAUGE



Art. No. 703.777

- 0-160 psi pressure gauge.
- Infinite adjusting range.
- 1/4" NPT male and female fittings.
- Provides precise air control for spray guns and air tools.
- Swivel top allows for easy installation.
- Compatible with any spray gun or air tool.
- Air regulators greatly improve energy conservation, air actuator control, controlling force/torque and operator safety.

Applications:

Use with Würth Sprayable Seam Sealer Gun **Art. No. 891.628**, all Würth air tools, etc.

PISTOL VAC



Note: Operate in vacuum mode only with factory dust bag securely attached by hose clamp. Operate with regulated air at a maximum of 90 psi and with 3/8" air supply line. Operate only with Safety Glasses, see Prefix 899. OSHA regulations require a maximum of 30 psi when operating in the Pistol Vac in blow mode.

Art. No. 714.92

Pistol Vac With Bag & Crevice Tool. Designed for high powered industrial vacuum cleaning with air pressure. Turns any shop air into a powerful vacuum cleaner or air cleaning gun.

- Connects to your air line.
- Outperforms inexpensive imports.
- Dust bag and crevice tool included.
- No electrical connections needed.
- Fits many PBE applications.
- Easy and convenient to use.
- Maintenance free.

Applications:

Glass, sawdust, metal chips, dust spills, liquid.

24" AIR COMB – BLOW GUN FOR RADIATORS AND FILTERS



Art. No. 714.9024

Special multi-port nozzle maximizes air pressure and volume at a 90° angle. Thoroughly cleans air filters, condensers, and radiators from the inside out.

Safe on all filters - won't punch holes

Features:

- Focused high-pressure output
- 5x the air volume
- Long reach 90° airflow
- Accesses hard to reach areas
- Great for all air filters, radiators, and condensers
- Extends filter life

Industries:

- Agriculture
- Construction
- Automotive
- Industrial
- Stationary Power

SPEEDPRESS 8T PUSH/PULL RIVETER AND ACCESSORIES

**NEW
PUSH & PULL
FUNCTION**



Automatic air powered riveter specially designed to perform common riveting tasks in modern bodyshops on all Aluminum, Steel and Combination/Hybrid body vehicles. Works with Self-Piercing Rivets, Flow-form Rivets and Solid Rivets. Virtually maintenance free with 100% no oil leakage.



Adjustable speed control



Adjustable pressure control

Kit Contents

| Description | Art. No. | P. Qty |
|--------------------------------------|----------------------------|--------|
| SpeedPress 8T PushPull Riveter | Not Sold Separately | 1 |
| HR2 360° arm | 920.HR2 | |
| Locking pin for arms | 920.1LP | |
| Plastic handle | 920.1PH | |
| Shoulder strap | 920.1SS | |
| Shoulder strap bracket | Not Sold Separately | |
| Würth exclusive die set (21 pieces)* | | |
| SPR starter kit (300 pieces) | | |
| Heavy duty carrying case | | |

*Contents of the Würth Exclusive Die Set are listed on the following accessory pages.

Art. No. 920.055859

Features:

- 8 Tonnes of pressure
- 4 second cycle time
- Integrated pressure gauge
- Speed and pressure controls
- Closed hydraulic system
- Magnetic die system
- Installation, extraction and punching capabilities
- 360° swivel arm function

Benefits:

- Adjustable pressure settings prevent panel distortion
- Adjustable speed settings for precision and productivity
- Fast and easy arm and die changes
- Efficient and user-friendly
- More versatile than any other tool on the market

Applications:

- Self-Piercing Rivet installation and extraction
- Flow form Rivet punching and installation
- Solid Rivet installation and extraction
- Blind Rivet extraction

Areas of application:

- Aluminum & Steel

Vehicle applications:

- Ford
- Volkswagen | Audi
- Mercedes
- BMW
- Jaguar | Land Rover



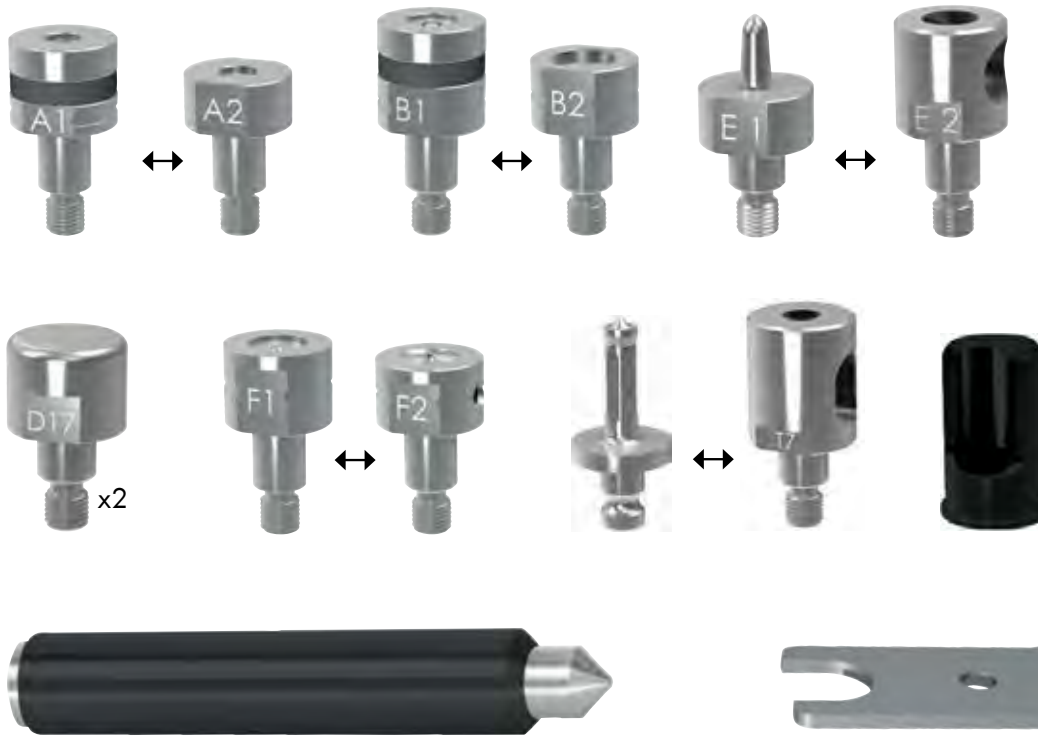
SPR starter kit (300 pieces)

| Rivet Size (mm) | Art. No. | P. Qty |
|-----------------|------------------|--------|
| 5.3 x 4.0 | 919.5340 | 50 |
| 5.3 x 5.0 | 919.5360 | |
| 5.3 x 6.0 | 919.5365 | |
| 5.3 x 8.0 | 919.5350 | |
| 3.3 x 3.5 | 919.33535 | |
| 3.3 x 3.5 | 919.33540 | |

Note: Full range of SPR's available – see prefix 919.

SPEEDPRESS 8T PUSH/PULL RIVETER ACCESSORIES

WÜRTH EXCLUSIVE DIE SET



Install and extract with factory precision. High strength steel and rugged design provide a solution built to last.

Contents: 21 pieces

Note: The Würth Exclusive Die Set is only available as part of Art. No. 920.055859.

| Kit Contents | Pairs with | Rivet Size (mm) | Rivet Type | Die Type | Pressure in Bar (b) | Main use | Art. No. | P. Qty |
|----------------------|------------|-----------------|---------------|-------------------------------|---------------------|--------------------------------|--|---------------|
| A1 Die | A2 | 3.3 | SPR | Magnetic Holding | 3-5.2 | Audi, BMW, Ford | 920.A1 | 1 |
| A2 Die | A1 | | | Forming | | | 920.A2 | |
| B1 Die | B2 | 5.3 | SPR | Magnetic Holding | 4.7-5.8 | BMW, Jaguar Land Rover, Ford | 920.B1 | |
| B2 Die | B1 | | | Forming | | | 920.B2 | |
| D17 Die | D17 | All | N/A | Extraction Straightener Dolly | 3-8 | All Brands & Models | 920.D17 | 2 |
| E1 Die | E2 | | | SPR | | Extraction | Audi, BMW, Jaguar Land Rover, Mercedes, Ford | |
| E2 Die | E1 | 6 | Flow-form | | Extraction Receiver | 4.7-5.8 | Audi, BMW, Jaguar Land Rover | 920.E2 |
| F1 Die | F2 | | | Holding | 920.F1 | | | |
| F2 Die | F1 | 8 | Flow-form | Forming | 4.7-5.8 | Mercedes | 920.F2 | 1 |
| T7 Die | T5 | | | Hole Punch Receiver | | | 920.T7 | |
| T5 Die | T7 | Hole Punch | 920.T5 | | | | | |
| ST1 Fitting | | | | | | | | |
| Center punch | | | | | | | | |
| Extension | | | | | | | | |
| Spare elastomer ring | | | | | | | | |
| Assembly keys | | | | | | | | |

SPECIAL ORDER

SPEEDPRESS 8T PUSH/PULL RIVETER ACCESSORIES

SPEEDPRESS 8T RIVETER ARMS

High strength forged steel arms provide a total repair solution. Sizes and styles designed to suit all bodywork profiles.



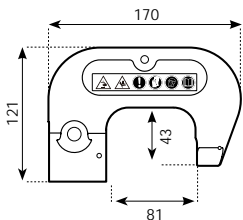
HR1S Arm - SpeedPress 8T



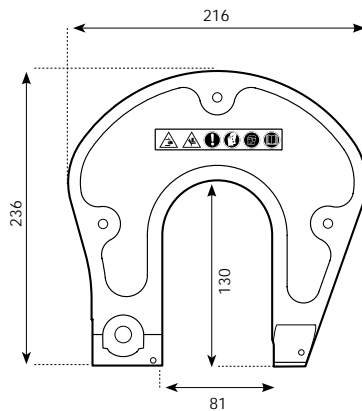
HR2 Arm - SpeedPress 8T



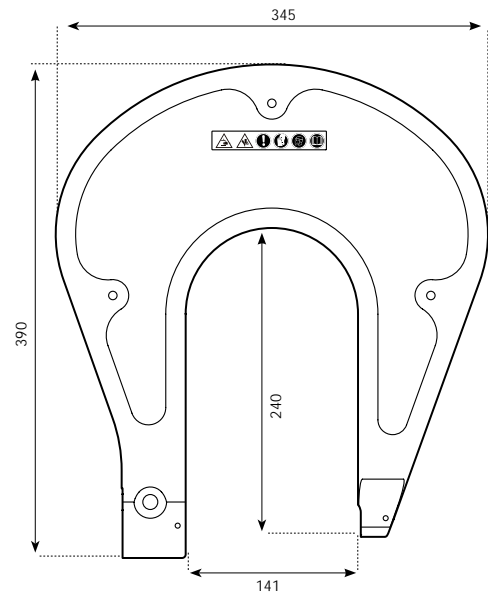
HR3 Arm - SpeedPress 8T



HR1S Arm - SpeedPress 8T



HR2 Arm - SpeedPress 8T



HR3 Arm - SpeedPress 8T

| Description | Length in mm | Width in mm | Height in mm | Caliper opening in mm | Opening depth in mm | Weight in kg | Art. No. | P. Qty |
|--------------------------|--------------|-------------|--------------|-----------------------|---------------------|--------------|----------|--------|
| HR1S Arm - SpeedPress 8T | 121 | 50 | 170 | 81 | 40 | 2 | 920.HR1S | 1 |
| HR2 Arm - SpeedPress 8T | 236 | | 216 | | 130 | | 920.HR2 | |
| HR3 Arm - SpeedPress 8T | 390 | | 345 | | 240 | | 920.HR3 | |

DIE SETS – MAKE SPECIFIC

VOLKSWAGEN | AUDI DIE SET



Art. No. 920.VWDS

Contents: 33 pieces

Install and extract with factory precision. High strength steel and rugged design provide a solution built to last.

For use with SpeedPress 8T Art. No. 920.1000

| Kit Contents | Pairs with | Rivet Size in mm | Rivet Type | Die Type | Pressure in Bar (b) | Art. No. | P. Qty |
|----------------------|-----------------|------------------|---------------------------|----------------------|---------------------|----------|--------|
| A1 Die | S3 | 3.3 | SPR | Magnetic Holding | 3-5.2 | 920.A1 | 1 |
| B1 Die | S7,S8 | 5.3 | | Extraction | 4.7-5.8 | 920.B1 | |
| D1 Die | D2 | 3.3 | | Extraction Receiver | 3-8 | 920.D1 | |
| D2 Die | D1,D3,S1 | | | 920.D2 | | | |
| D3 Die | D2,D5 | All | | Extraction | 5.3-8 | 920.D3 | |
| D4 Die | D5 | | 920.D4 | | | | |
| D5 Die | D3,D4,S4,S5,D12 | 5.3 | Extraction/Punch Receiver | | 920.D5 | | |
| D6 Die | D7 | All | Blind | Extraction | 3-8 | 920.D6 | 2 |
| D7 Die | D6 | | | Extraction Receiver | | 920.D7 | |
| D8 Die | D8,D9 | 4 | Solid | Dolly & Straightener | 5.3-8 | 920.D8 | |
| D9 Die | D8 | | | Forming | | 920.D9 | |
| D10 Die | D11 | | | Punch and Forming | | 920.D10 | |
| D11 Die | D10 | 8 | Spot Weld | Punch Out | 3-8 | 920.D11 | 1 |
| D12 Die | D5 | | | SPR | | 920.D12 | |
| D13 Die | E2 | 6 | Solid | Extraction | 5.3-8 | 920.D13 | 2 |
| D15 Die | D16 | | | Punch and Forming | | 920.D15 | |
| D16 Die | D15 | | | 920.D16 | | | |
| D17 Die | D17 | All | N/A | Straightener Dolly | 3-8 | 920.D17 | |
| E2 Die | E1,D13 | | | Extraction Receiver | | 920.E2 | |
| S1 Die | D2 | 3.3 | SPR | Extraction | 3-5.2 | 920.S1 | 1 |
| S3 Die | A1 | 3.5 | | Forming | | 920.S3 | |
| S4 Die | D5 | 5.3 | | Extraction | 3-8 | 920.S4 | |
| S5 Die | D5 | | | 920.S5 | | | |
| S7 Die | B1 | | | Forming | 4.7-5.8 | 920.S7 | |
| S8 Die | B1 | | | | 920.S8 | | |
| Spare elastomer ring | | | | | | | 4 |
| Assembly keys | | | | | | | 2 |

DIE SETS – MAKE SPECIFIC

BMW DIE SET



Art. No. 920.BMWDS

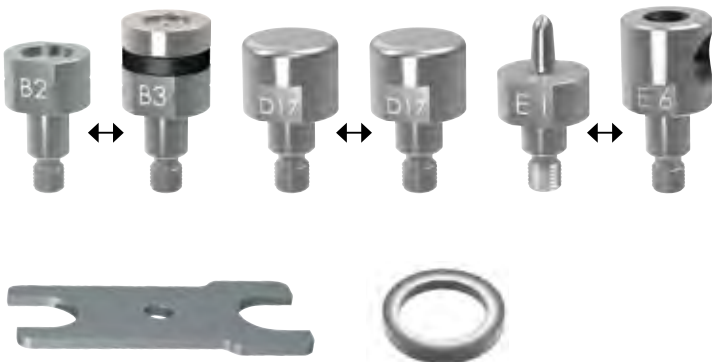
Contents: 12 pieces

Install and extract with factory precision. High strength steel and rugged design provide a solution built to last.

For use with SpeedPress 8T Art. No. 920.1000

| Kit Contents | Pairs with | Rivet Size in mm | Rivet Type | Die Type | Pressure in Bar (b) | Art. No. | P. Qty |
|----------------------|------------|------------------|------------|---------------------|---------------------|----------|--------|
| A1 Die | A2 | 3.3 | SPR | Magnetic Holding | 3-5.2 | 920.A1 | 1 |
| A2 Die | A1 | | | Forming | | 920.A2 | |
| B1 Die | B2 | 5.3 | | Magnetic Holding | 4.7-5.8 | 920.B1 | |
| B2 Die | B1 | | | Forming | | 920.B2 | |
| E1 Die | E2 | All | | Extraction | 3-8 | 920.E1 | |
| E2 Die | E1 | | | Extraction Receiver | | 920.E2 | |
| Spare elastomer ring | | | | | | | 4 |
| Assembly keys | | | | | | | 2 |

JAGUAR | LAND ROVER DIE SET



Art. No. 920.JLRDS

Contents: 12 pieces

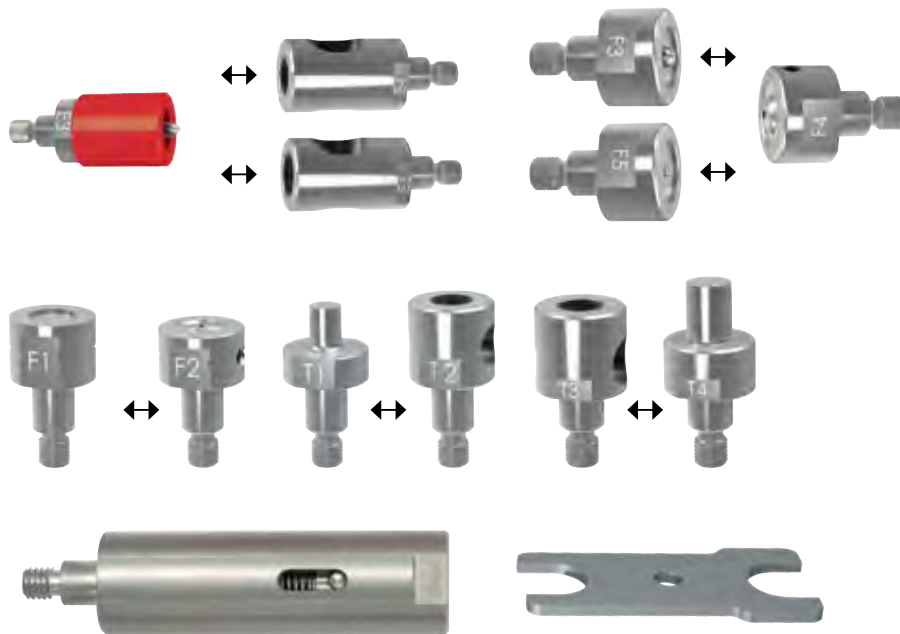
Install and extract with factory precision. High strength steel and rugged design provide a solution built to last.

For use with SpeedPress 8T Art. No. 920.1000

| Kit Contents | Pairs with | Rivet Size in mm | Rivet Type | Die Type | Pressure in Bar (b) | Art. No. | P. Qty |
|----------------------|------------|---------------------|------------|--------------------|---------------------|----------|--------|
| B2 Die | B3 | 4.8 | SPR | Forming | 4.7-5.8 | 920.B2 | 1 |
| B3 Die | B2 | | | Magnetic Holding | | 920.B3 | |
| D17 Die | D17 | All | N/A | Straightener Dolly | 3-8 | 920.D17 | 2 |
| E1 Die | E6 | | SPR | Extraction | | 920.E1 | |
| E6 Die | E1 | Extraction Receiver | | 920.E6 | | | |
| Spare elastomer ring | | | | | | | 4 |
| Assembly keys | | | | | | | 2 |

DIE SETS – MAKE SPECIFIC

MERCEDES BENZ DIE SET



Art. No. 920.MRCDS

Contents: 15 pieces

Install and extract with factory precision. High strength steel and rugged design provide a solution built to last.

| Kit Contents | Pairs with | Rivet Size in mm | Rivet Type | Die Type | Pressure in Bar (b) | Art. No. | P. Qty | |
|-------------------|------------|------------------|-------------------|---------------------|---------------------|------------------|--------|---|
| E3 Die | E4,E5 | 6 | Flow-form | Extraction | 3-8 | 920.E3 | 1 | |
| E4 Die | E3 | 6 | | Extraction Receiver | | 920.E4 | | |
| E5 Die | E3 | 8 | | Holding | | 920.E5 | | |
| F1 Die | F2 | 6 | | Forming | | 920.F1 | | |
| F2 Die | F1 | | | 920.F2 | | | | |
| F3 Die | F4 | 8 | Flow-form Style 1 | Holding | 920.F3 | | | |
| F4 Die | F3,F5 | | Flow-form Style 2 | Forming | 920.F4 | | | |
| F5 Die | F4 | | Holding | 920.F5 | | | | |
| T1 Die | T2 | 6 | Flow-form | Hole Punch | 3-5.2 | 920.T1 | | |
| T2 Die | T1 | | | Hole Punch Receiver | 920.T2 | | | |
| T3 Die | T4 | 8 | | Hole Punch | 4.7-5.8 | 920.T3 | | |
| T4 Die | T3 | | 920.T4 | | | | | |
| HR3 arm extension | | | | | | 920.HR3EX | | |
| Assembly keys | | | | | | | | 2 |

PNEUMATIC RIVET GUN



Features:

- Powerful, durable, high-speed production tool.
- Quick release air valve permits cylinder to return quickly for high speed assembly operations: Prevents overloading for long life.
- Performs well at any angle.
- Gets into hard-to-reach areas.
- Provides quick, quiet and comfortable operation preventing user fatigue.

| Technical data | | |
|----------------------|---------------------------|---------------------------------|
| | 3/16" Rivet Gun | 1/4" Rivet Gun |
| Rivet capacity | max. 3/16" | max. 1/4" |
| Nose pieces | 3/16", 5/32", 1/8", 3/32" | 1/4", 3/16", 5/32", 1/8", 3/32" |
| Overall length | 10-5/8"/270 mm | 10-7/8"/280 mm |
| Net weight | 3-1/4 lbs/1.5 kg | 3-1/2 lbs/1.6 kg |
| Motor | 1/2 hp | |
| Air Inlet Thread NPT | 1/4" | |
| Air Hose I.D. size | 3/8"/10 mm | |
| Avg. air consumpt. | 2 cfm | 2.320 Litre/stroke |
| Air pressure | 71-85 psi | 90-120 psi |

| Description | Size | Art. No. | P. Qty |
|---------------------|-------|------------------|--------|
| Pneumatic Rivet Gun | 3/16" | 703.900 | 1 |
| | 1/4" | 703.93721 | |

Art. No. 703.11401 - P. Qty. 5 pcs ***NEW***

Art. No. 703.13601 - P. Qty. 4 pcs ***NEW***

Nose Pieces for 703.93721

Nose Pieces for 703.900



NOTE: All other spare parts and accessory can be purchased through special orders.

PNEUMATIC TOOL OIL



Art. No. 893.0505 1 L

Lubricate, clean and protect your pneumatic tools.

- Increases power and tool performance.
- Extends tool operating life.
- Minimizes corrosion by repelling air line moisture.
- Removes dirt, dust and gummy deposits.
- Compatible with all piston and rotary type air tools.

PURLOGIC® PREMIUM PRESS GUN



Extension Nozzle Art. No. 891.152601
Pack of 50 pieces

Art. No. 891.152600

High-quality, PTFE coated metal gun for applying 1-component expanding foams

New, Improved & Completely Redesigned

- Comfortable, rubberised handle for firm hand grip
- Rugged gun body with PTFE-coated needle and threaded basket.
- Foam dispensing quantity can be

adjusted for a clean spraying pattern

- Optimized sealing system
- Dosable outflow of foam
- Trusted high-quality foam gun
- Unique Würth design
- Lock button
- Ideal for slim joints and hard to reach areas
- Ergonomic design
- Long service life

KOMBIFIX PNEUMATIC CARTRIDGE GUN



Notice: The average consumption for pneumatic application guns is approx. 7.2 litres/minute.

Caution: The maximum working pressure for applying sealants with this pistol is 6 bar.

Suitable for: 310 ml cartridge **Length:** 350 mm

Art. No. 891.6286

Pneumatic cartridge gun for spraying and beading cartridges of low viscosity sealants or adhesives.

For 310-ml cartridges:

- Replicates 13 different finishes
- Does not clog up
- Easy adjustment.
- Amount of air and material can be regulated independently
- Automatically reduces the mains pressure to 6 bar working pressure
- Product is fed through a telescopic cylinder, thus making the penetration of the cartridge by compressed air impossible.
- Infinitely and finely adjustable
- Two-step trigger button

Included in Kit:

- 10 plastic nozzles for sprayable seam sealant
- 1 union nut for sprayable seam sealant
- 1 union nut for standard sealing compounds
- 1 connecting nipple, 1/4 inch

Application Nozzle:



891.628612
P. Qty. 1

- Nozzle for Sprayable Seam Sealant
- For use with "Kombifix" application gun
- Length: Approx. 12.5 cm
- Color: Transparent

PROFESSIONAL 18-GAUGE PNEUMATIC BRAD NAILER



REPLACEMENT NAILS - Art. No. 480.1338

Art. No. 703.580050 - P. Qty. 1

For Trim nailing and Roof applications.

Features & Benefits:

- Depth of drive adjustment for nail heads
- Tool-free jam release mechanism for easy nail removal
- Selectable trigger: sequential or contact actuation
- Adjustable exhaust to keep contaminates away from work

- KIT INCLUDES: Tool, 1/4-inch fitting, goggles, Allen keys, manual and carrying case
- Maintenance-free motor
- Tool-free jam release
- Hardened driver blade
- Application – interior/exterior trim finish, roofing, upholstery panels, cabinets, baseboards, framing, furniture etc.
- 1 year warranty

| SPECIFICATIONS | |
|--------------------|--|
| Operating Pressure | 70-120 psi |
| Fastener Type | 18 gauge brad nails |
| Fastener Range | 5/8 in. to 2 in. |
| Magazine Capacity | 110 nails |
| Air Consumption | 0.06 ft ³ /cycle at 100 psi |
| Air Inlet | 1/4 in. NPT |
| Weight | 3.4 lbs. |

ULTRA HOT HEAT GUN



Art. No. 702.2000

Dual temperature heat gun for general use.

- Choice of two temperature settings: 315 °C (600 °F) and 482 °C (900 °F).
- 1300 watt output.
- UL and C-UL listed for safety.
- Lightweight, easy to use, offers quick heat-up and ultra quiet operation

Application Automotive Industry:

- Applying and removing decals.
- Curing epoxies.
- Drying distributor caps and wet ignitions.
- Drying paint touch-ups eliminating "haze".
- Forming and welding plastics.
- Loosening rusted bolts and fittings.
- Removing wrinkles from vinyl seats.
- Repairing rear window defrosters.
- Setting thermoplastic adhesive.
- Shrinking headliners.
- Shrinking tubing.
- Softening and fitting convertible tops.
- Softening windshield seal for replacement.
- Thawing frozen radiators, gas lines, door locks.

Heat Gun Users Include:

Appliance repairmen, biochemists, boat refinishers, building maintainers, cabinetmakers, car rental agencies, carpenters, chemists, crime laboratories, dental technicians, dry cleaners, dry wall contractors, electric motor repairman, electricians, engineers, food retailers, foundrymen, furniture repairers, homebuilders, janitors, locksmiths, machinists, marine owners, metal workers, millwrights, opticians, photographers, physicians, plumbers, printers, roofers, tune-up specialists, welders.

Chemical Application:

- Applying shrink tubing and shrink fittings.
- Softening, forming and bending plastic tubing.
- Speeding up plastic curing.
- Speeding setting of epoxy cement repairs.
- Drying of damp areas before painting.
- Drying out wet surfaces, motor controls.
- Softening adhesives for tile removal.
- Softening and bending plastic tubing and pipe.
- Strips paint fast.

Electrical Application:

- Bending and forming PVC conduit.
- Melting solder or component board backs.

Woodworking Application:

- Bonding vinyls and other plastics together.

Marine Application:

- Drying varnish and other finishes.
- Heating, softening, bending, forming or molding plastic.

Plastic Industry Application:

- Repairing ABS plastics.
- Returning "memory" plastic to original shape.

ANGLE GRINDER



Features:

- Compact and lightweight
- Vibration control handle reduces vibration up to 60%
- Rear handle trigger with lock-on/off switch for extended use applications
- Sealed switch keeps debris out of the switch mechanism
- Adjustable guard
- Epoxy coated field windings

Benefits:

- Powerful & durable for the most demanding jobs
- Provides uncompromising user comfort for extended periods of work
- Increases longevity of tool life
- Minder™ brushes eliminates guesswork, stops the tool when preventative maintenance is required
- Efficient guard installation and adjustments
- Coated field windings provides the ultimate protection against abrasive dust and metal debris

Contents:

- Guard
- Vibration dampening side-handle

| Technical data | |
|----------------|--------------------|
| | 4.5" Angle Grinder |
| Amperage | 6 |
| No load RPMs | 11,000 |
| Wheel diameter | 4-1/2" |
| Spindle thread | 5/8" - 11 |
| Length | 10-1/2" |
| Weight | 3.75 lbs |

| Description | Size | Art. No. | P. Qty |
|---------------|------|----------|--------|
| Angle Grinder | 4.5" | 008.1375 | 1 |

Note: Does not have an automatic electronic clutch.

ELECTRIC GLUE GUN



Art. No. 702.100057

- Industrial high temperature glue gun delivers 2.5 pounds of glue per hour.
- 80 watts of heating power, 120 Volts.
- Reaches 193°C (380°F).
- Solid state PTC (positive temperature control) heaters.
- Complete with stand and side stand which allows the gun to be placed on its side without glue backflow.
- Double insulated ground cord.
- Glue stick diameter: 7/16" (11.3 mm)

Recommended:

Glue Sticks 0.5 kg special glue, Ø 12 mm. **Art. No. 890.100057**

P. Qty: 25

Glue Sticks for Dent Lift System Ø 11.5 mm, 195 mm long.

Art. No. 890.100050

P. Qty: 10

PUMP SPRAY BOTTLE 360°



360° use



Markable Label



Art. No. 891.503360 1L

Special intake system allows 360° spraying and ensures reliable working overhead, at an angle or vertically.

- Space for labeling the type of liquid filling
- Extra fields for safety instructions

Benefits:

- Fatigue-free working thanks to low operating force
- Strong spray stream
- Good stability thanks to conical shape
- Easy filling from canisters or drums

Features:

- Easier to open, thanks to non-slip grip
- Ergonomic, robust pump spray atomizer with long handle
- Individually markable label

Note: See chemical compatibility chart before use

The information on use is only a recommendation based on our own tests and experience. Carry out your own tests before each use. Due to the large number of possible applications and storage/usage conditions, we make no guarantee as to any specific results of use. Insofar as our free customer service provides technical information or advice, we shall not be held liable in any way unless the advice or information is part of the contractual scope of our services which must be provided or if the person giving the information is acting deliberately. We guarantee the consistent quality of our products and reserve the right to make technical changes and continue development.

PUMP SPRAY O-RING KIT



Art. No. 891.599

All parts necessary to rebuild 1 Litre pump spray bottles

P. Qty: 1

EMPTY BOTTLE WITH SPRAYER



Art. No. 891.502002 (500mL)

For user-friendly application of liquids

Features and Benefits:

- Transparent, break-proof container with fill level visibility
- 100mL and 200mL scales, useful aid for filling and mixing
- Individual markable label for labelling liquid contents, plus extra fields for safety instructions

Note: Replaces 1/2 Litre Bottle Art. No. 890.700 & Sprayer Art. No. 890.8

ECO DISPENSING PUMP FOR 4L AND 20L CONTAINERS

Art. No. 891.901120



Contains:

- One 17" (43cm) dispensing pump, and one yellow 20L pail adaptor

Benefits:

- Fits all 4L and 20L ECO containers
- Spring-loaded for easy operations
- Made of high-density polyethylene

PLASTIC MEASURING CUP 5L



Features:

- Resistant to acid and chemicals
- Safe for food
- Scale in 100 mL increments
- For use of transferring oil, coolant, window cleaner etc.
- Height: 10"

| Material | Contents | Colour | Resistance to | Scale | Art. No. | P. Qty. |
|----------|----------|--------|---------------|----------------------------|-------------------|---------|
| Plastic | 5 L | White | Oil, acids | Scale increments 100 mL | 705.800500 | 1 |

08 FITTINGS & HOSES



- 2** Hose Clamps, Pipe Clamps & Assortments
- 10** Grease Fittings
- 12** Line/Tee Connectors, Vacuum Caps and Assortments
- 13** Fuel Line/Windshield Washer Tubing and Racks
- 14** Heater Hose
- 15** Brass Fittings
- 24** Black Iron Fittings
- 25** Steel Fittings
- 28** Fitting Assortments
- 30** Air Brake Tubing and Hoses
- 31** Caps and Plugs
- 33** Liquid Filled Pressure Gauge
- 35** Pneumatic Couplers and Fittings
- 36** Air Hoses and Reels
- 38** Water Hose Accessories

HOSE CLAMPS



Fig. 1

| Technical Information | |
|------------------------|--------------------------------------|
| Material of strap | 1.4016 stainless steel F1 |
| Material of screw/body | Galvanized steel, passivated, sealed |
| Screw type | Phillips head |
| Strap widths | 7.5 mm/9mm/12mm |

| Size | |
|-------------|------------|
| Strap width | Screw size |
| 7.5 mm | 6 mm |
| 9 mm | 7 mm |
| 12 mm | 7 mm |

| Strap Width in mm | Clamping Range (dia.) | Art. No. | P. Qty. |
|-------------------|-----------------------|--------------------|---------|
| 7.5mm | 10mm - 16mm | 0539.1016 | 25 |
| 9mm | 8mm - 16mm | 0539.1816 | |
| | 12mm - 22mm | 0539.11222 | |
| | 16mm - 27mm | 0539.11627 | |
| | 20mm - 32mm | 0539.12032 | |
| | 25mm - 40mm | 0539.12540 | |
| | 30mm - 45mm | 0539.13045 | |
| | 32mm - 50mm | 0539.13250 | |
| | 40mm - 60mm | 0539.14060 | |
| | 50mm - 70mm | 0539.15070 | |
| 60mm - 80mm | 0539.16080 | | |
| 70mm - 90mm | 0539.17090 | | |
| 12mm | 16mm - 27mm | 0549.21627 | |
| | 20mm - 32mm | 0549.22032 | |
| | 25mm - 40mm | 0549.22540 | |
| | 35mm - 50mm | 0549.23550 | |
| | 40mm - 60mm | 0549.24060 | |
| | 50mm - 70mm | 0549.25070 | |
| | 60mm - 80mm | 0549.26080 | |
| | 70mm - 90mm | 0549.27090 | |
| | 80mm - 100mm | 0549.280100 | |
| 100mm - 120mm | 0549.200120 | | |

With asymmetrical buckle

Application

- Fuel line systems
- Cooling water/Heating
- General retainer/fastener

Asymmetrical body (Fig. 1)

- Even distribution of force
- Clamp head does not tilt away during tightening

Smooth/indented strap interior, rounded edges

- Prevents injury and hose damage

RoHS Compliant

Does not contain Chrome-VI



Art. No. 539.1207

A/F 7 mm wrench

Contents (120 Pieces):

- 10 sizes from 8-16 mm to 70-90 mm
- 1 Zebra screwdriver with flexible shaft
- 1 wall mounting set

| Sizes | |
|----------------------|-------------------|
| Clamping range in mm | Art. No. |
| 8-12 | 539.28.12 |
| 10-16 | 539.210.16 |

| Technical Information | |
|------------------------|-----------------------------------|
| Material of strap | 1.4301 stainless steel A2 |
| Material of screw/body | 1.4016 stainless steel F1, tinned |
| Screw type | Slotted |
| Strap widths | 9 mm |
| Size | 6 mm |

Application:

Fuel line systems, Fuel pump, Fuel manifolds, Fuel filters, Fuel tank connections, Surge tanks/ Coolers

"Power" Fuel Hose Clip



Fig. 1

Higher tightening torque than conventional hose clamps; 3.5 Nm (2.5 lb-ft) recommended

- Cannot be over-turned by hand

Asymmetrical body (Fig. 1)

- Even distribution of force
- Clamp hand does not tilt away during tightening

Smooth/indented strap interior, rounded edges

- Prevents injury and hose damage

RoHS Compliant/ Does not contain Chrome-VI

Note: Use with Art. No. 613.28606

MH "Micro" Series Hose Clamps



| Clamping Range (dia.) | | Art. No. | P. Qty. |
|-----------------------|-------------|---------------|---------|
| inches | mm | | |
| 1/4" - 5/8" | 6mm - 16mm | 535.4 | 10 |
| 1/4" - 11/16" | 7mm - 17mm | 535.5 | |
| 5/16" - 7/8" | 8mm - 22mm | 535.6 | |
| 3/8" - 1" | 10mm - 25mm | 535.81 | |

- Band width: 5/16"
- Screw Size: 1/4" A/F
- Stainless steel clamp, chrome steel screw

T-BOLT HOSE CLAMPS



For hoses with a high level of hardness or inserts made of metal or plastic

Advantages:

Extremely high tightening force

- Secure connection of hard hoses as well

Rounded edges/hose bridge

- Prevents injury and hose damage

Application:

- Lines carrying air
- Exhaust gas system
- Retainer/Fastener

| Technical Data | |
|-------------------|---------------------------|
| Design | W1 |
| Material of strap | 1.0934 alu./zinc |
| Material of screw | Steel, galvanized |
| Screw type | External hexagon |
| Size | Strap width 18 mm = 8 mm |
| | Strap width 20 mm = 10 mm |
| | Strap width 25 mm = 13 mm |

| Clamping range (mm) | Strap width (mm) | Art. No. |
|---------------------|------------------|--------------------|
| 19-21 | 18 | 537.118.020 |
| 23-25 | | 537.118.024 |
| 25-27 | | 537.118.026 |
| 29-31 | | 537.118.030 |
| 31-34 | | 537.118.033 |
| 34-37 | | 537.118.036 |
| 40-43 | 20 | 537.118.042 |
| 43-47 | | 537.120.045 |
| 47-51 | | 537.120.049 |
| 51-55 | | 537.120.053 |
| 55-59 | | 537.120.057 |

| Clamping range (mm) | Strap width (mm) | Art. No. |
|---------------------|------------------|--------------------|
| 59-63 | 20 | 537.120.061 |
| 63-68 | | 537.120.066 |
| 68-73 | | 537.125.071 |
| 73-79 | | 537.125.076 |
| 79-85 | 25 | 537.125.082 |
| 85-91 | | 537.125.088 |
| 91-97 | | 537.125.094 |
| 97-104 | | 537.125.101 |
| 104-112 | | 537.125.108 |
| 112-121 | | 537.125.117 |
| 121-130 | | 537.125.126 |

T-BOLT HOSE CLAMPS 316SS



Heavy-Duty clamp, ideal for fastening compressed air hoses with high degrees of hardness or plastic/steel reinforcement.

- 18mm - 30mm Band Widths
- Exceptionally High Tensile Force
- Diameter Range 17mm - 304mm
- 316 Stainless Steel Band/W5
- Heavy-Duty T-Bolt with Hollow Trunnions
- (W5) Stainless Steel Rounded Band with Bridge

| Band Width | Clamping Range (mm) | Clamping Range (inch) | Art. No. |
|------------|---------------------|-----------------------|---------------------|
| 18 | 17-19 | 11/16 - 3/4 | 537.0118.018 |
| 18 | 19-21 | 3/4 - 13/16 | 537.0118.020 |
| 18 | 21-23 | 13/16 - 15/16 | 537.0118.022 |
| 18 | 23-25 | 15/16 - 1 | 537.0118.024 |
| 18 | 25-27 | 1 - 1-1/16 | 537.0118.026 |
| 18 | 27-29 | 1-1/16 - 1-1/8 | 537.0118.028 |
| 18 | 29-31 | 1-1/8 - 1-1/4 | 537.0118.030 |
| 18 | 31-34 | 1-1/4 - 1-5/16 | 537.0118.033 |
| 18 | 34-37 | 1-5/16 - 1-7/16 | 537.0118.036 |
| 18 | 37-40 | 1-7/16 - 1-9/16 | 537.0118.038 |
| 18 | 40-43 | 1-9/16 - 1-11/16 | 537.0118.042 |
| 20 | 43-47 | 1-11/16 - 1-7/8 | 537.0120.045 |
| 20 | 51-55 | 2 - 2-3/16 | 537.0120.053 |
| 20 | 55-59 | 2-3/16 - 2-5/16 | 537.0120.057 |
| 20 | 59-63 | 2-5/16 - 2-1/2 | 537.0120.61 |
| 25 | 68-73 | 2-11/16 - 2-7/8 | 537.0125.071 |
| 25 | 73-79 | 2-7/8 - 3-1/8 | 537.0125.076 |
| 25 | 79-85 | 3-1/8 - 3-3/8 | 537.0125.082 |

HOSE CLAMPS



Spring Action Hose Clamps

- Heat treated spring steel
- Excellent corrosion resistance
- Provides a professional fit and finish

| Colour | Hose O.D | Max Dia. | Band Width | Art. No. | P. Qty. |
|--------|----------|----------|------------|----------------|---------|
| Black | 3/8" | .321 | 5/16" | 534.38 | 50 |
| Green | 7/16" | .405 | | 534.716 | |
| Red | 1/2" | .460 | | 534.12 | |
| Black | 9/16" | .520 | | 534.916 | |
| Olive | 5/8" | .583 | | 534.58 | |



EFI Hose Clamps

- For use with electronic fuel injection hose, ex: Art. No. 897.602/603/604.
- Plated carbon steel
- Screw drive: Hex with slot

| Clamp Size | Clamping Range | Band Width | Art. No. | P. Qty. |
|------------|-----------------|------------|-------------------|---------|
| 04 | 0.433" - 0.551" | 23/64" | 535.HC21-4 | 10 |
| 05 | 0.472" - 0.590" | 23/64" | 535.HC21-5 | |
| 06 | 0.551" - 0.669" | 23/64" | 535.HC21-6 | |



Two Ear Clamps - Zinc Plated

- Available in steel
- Suited for maintenance and O.E.M. applications.
- Rubber Hose, Plastic Tubing, Co-Axial and Electrical Cable, Rope, etc. are all readily clamped
- The clamps are widely used on air, fluid, gas and steam lines.

| Nominal Size | Closed | Open | Art. No. | P. Qty. |
|--------------|--------|-------|----------------------|---------|
| 3/16" | .118" | .197" | 884.HC9-3 | 25 |
| 1/4" | .197" | .276" | 884.HC9-4 | |
| 5/16" | .276" | .354" | 884.HC9-5 | |
| 3/8" | .315" | .433" | 884.HC9-6 | |
| 1/2" | .433" | .512" | 884.HC9-8 | |
| 9/16" | .512" | .591" | 884.HC9-9 | |
| 19/32" | .519" | .669" | 884.HC9-9-1/2 | |
| 5/8" | .591" | .708" | 884.HC9-10 | |
| 3/4" | .669" | .787" | 884.HC9-12 | |
| 7/8" | .787" | .905" | 884.HC9-14 | |

Norma Hose Clamps

- With anti-pitch liner
- For securing rubber and plastic hoses, rubber sleeves on pipe ends and hose connections, etc.
- For high pressure applications
- Slotted Screw
- Zinc Plated



| Diameter | Band Width | Art. No. | P. Qty. |
|----------|------------|-----------------|---------|
| 9mm | 9mm | 540.9..9 | 25 |
| 12mm | | 540.12.9 | |
| 13mm | | 540.13.9 | |
| 14mm | | 540.14.9 | |
| 15mm | | 540.15.9 | |
| 16mm | | 540.16.9 | |
| 18mm | | 540.18.9 | |
| 24mm | | 540.24.9 | |

HOSE CLAMPS



- With Tang Liner
- 1/2" band width screw. Lined. 201/301 Stainless Steel
- 5/16 Hex Head. Plated Carbon Steel
- 201/301 Stainless Steel Housing
- Great for soft hoses

Adjustable Shield Hose Clamps

| Clamping Range (dia.) | | Art. No. | P. Qty. |
|-----------------------|-------------|----------|---------|
| in | mm | | |
| | | 536.4 | 10 |
| 5/8" - 7/8" | 16mm - 22mm | 536.6 | |
| 5/8" - 1" | 16mm - 25mm | 536.8 | |
| 3/4" - 1 1/16" | 19mm - 27mm | 536.10 | |
| 7/8" - 1 1/4" | 22mm - 32mm | 536.12 | |
| 1" - 1 1/2" | 26mm - 38mm | 536.16 | |
| 1 1/8" - 1 3/4" | 29mm - 44mm | 536.20 | |
| 1 1/4" - 2" | 32mm - 51mm | 536.24 | |
| 1 5/16" - 2 1/4" | 33mm - 57mm | 536.28 | |
| 1 9/16" - 2 1/2" | 40mm - 63mm | 536.32 | |
| 1 13/16" - 2 3/4" | 46mm - 70mm | 536.36 | |
| 2 1/16" - 3" | 52mm - 76mm | 536.40 | |
| 2 5/16" - 3 1/4" | 59mm - 82mm | 536.44 | |
| 2 9/16" - 3 1/2" | 65mm - 89mm | 536.48 | |



Fuel Line Clips

| Clamping Range | Dia. | Band width | Art. No. | P. Qty. |
|-----------------|--------|------------|----------|---------|
| 9.1mm - 10.8mm | 11.3mm | 7.4mm | 541.113 | 25 |
| 11.1mm - 13.1mm | 13.8mm | 8.2mm | 541.138 | |
| 11.8mm - 13.8mm | 14.5mm | | 541.145 | |
| 12.8mm - 14.8mm | 15.5mm | | 541.155 | |

- A2 Stainless Steel (clip & Insert) 1.4301
- Precise installation, even in the tightest spaces
- Chrome-VI free



Super Mini Hose Clamps

| Clamping Range in mm | Band Width | Art. No. | P. Qty. |
|----------------------|------------|-----------|---------|
| 7mm - 11mm | 5mm | 541.7..11 | 25 |

- Strap is made of 1.4301 stainless steel A2
- Screw/body is galvanized steel, passivated, sealed
- Slotted screw type
- For minimally-stressed hoses in tight quarters

HOSE CLAMPS



- 1/2" High Nickel Stainless Steel band and housing
- 5/16" High Nickel Stainless Steel hex head screw

Stainless Steel Hose Clamps

| Clamping Range (dia.) | | Art. No. | P. Qty. |
|-----------------------|---------------------|---------------------|---------|
| Min. - Max Dia. in | Min. - Max. Dia. mm | | |
| 1/4" - 5/8" | 6mm - 16mm | 535.S5.4 | 10 |
| 3/8" - 7/8" | 10mm - 22mm | 535.S5.6 | |
| 7/16" - 1" | 11mm - 25mm | 535.S5.8 | |
| 7/16" - 1" | 11mm - 25mm | 535.S5.8.BK | 500 |
| 1/2" - 1 1/16" | 13mm - 27mm | 535.S5.10 | |
| 1/2" - 1 1/4" | 13mm - 32mm | 535.S5.12 | 10 |
| 1 1/16" - 1 1/2" | 18mm - 38mm | 535.S5.16 | |
| 3/4" - 1 3/4" | 19mm - 44mm | 535.S5.20 | |
| 1" - 2" | 25mm - 51mm | 535.S5.24 | |
| 1 1/4" - 2 1/4" | 32mm - 57mm | 535.S5.28 | |
| 1 1/2" - 2 1/2" | 38mm - 63mm | 535.S5.32 | |
| 1 3/4" - 2 3/4" | 44mm - 70mm | 535.S5.36 | 400 |
| 1 3/4" - 2 3/4" | 44mm - 70mm | 535.S5.36.BK | |
| 2" - 3" | 51mm - 76mm | 535.S5.40 | 10 |
| 2 1/4" - 3 1/4" | 57mm - 82mm | 535.S5.44 | |
| 2 1/2" - 3 1/2" | 64mm - 89mm | 535.S5.48 | |
| 2 3/4" - 3 3/4" | 70mm - 95mm | 535.S5.52 | |

HS Series Hose Clamps



- Band width: 1/2" mm
- Screw Size: 5/16" A/F
- Stainless steel clamp, chrome steel screw

| Clamping Range (dia.) | | Art. No. | P. Qty. |
|-----------------------|------------------|---------------|---------|
| Min. - Max Dia. | Min. - Max. Dia. | | |
| 7/16" - 1" | 11mm - 25mm | 535.8 | 10 |
| 1/2" - 1-1/16" | 13mm - 27mm | 535.10 | |
| 1/2" - 1-1/4" | 13mm - 32mm | 535.12 | |
| 1 1/16" - 1-1/2" | 18mm - 38mm | 535.16 | |
| 3/4" - 1-3/4" | 19mm - 44mm | 535.20 | |
| 1" - 2" | 25mm - 51mm | 535.24 | |
| 1-1/4" - 2-1/4" | 32mm - 57mm | 535.28 | |
| 1-1/2" - 2-1/2" | 38mm - 63mm | 535.32 | |
| 1-3/4" - 2-3/4" | 44mm - 70mm | 535.36 | |
| 2 - 3" | 51mm - 76mm | 535.40 | |
| 2-1/4" - 3-1/4" | 57mm - 82mm | 535.44 | |
| 2-1/2" - 3-1/2" | 64mm - 88mm | 535.48 | |
| 2-1/2" - 4-1/2" | 64mm - 114mm | 535.64 | |
| 2-1/2" - 3-1/2" | 64mm - 114mm | 535.48 | |
| 2-3/4" - 3-3/4" | 70mm - 95mm | 535.52 | |
| 3 - 4" | 76mm - 101mm | 535.56 | |
| 2-1/2" - 4-1/2" | 64mm - 114mm | 535.64 | |
| 3 - 5" | 76mm - 127mm | 535.72 | |
| 3-1/4" - 4-1/4" | 83mm - 108mm | 535.60 | |
| 4-1/2" - 6-1/2" | 114mm - 165mm | 535.96 | |

SPECIALTY CLAMPS & ACCESSORIES



Band: Stainless Steel
Bridge: Stainless Steel
T-Bolt: Carbon Steel
Finish (T-Bolt): Zinc Plated
Spring: High Carbon Steel
Band Thickness: 0.025"

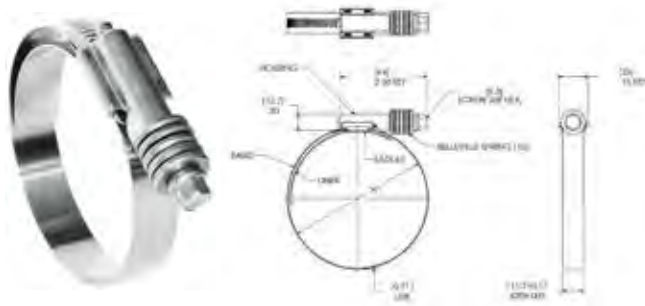
| Clamping Range (dia.) | | Art. No. |
|-----------------------|-------|---------------------|
| inches | mm | |
| 2.06-2.31 | 52-59 | 884.HC19-225 |
| 2.19-2.50 | 58-64 | 884.HC19-238 |
| 2.31-2.62 | 59-67 | 884.HC19-250 |
| 2.38-2.69 | 60-68 | 884.HC19-263 |
| 2.44-2.75 | 62-70 | 884.HC19-270 |
| 2.56-2.87 | 65-73 | 884.HC19-275 |
| 2.69-3.00 | 68-76 | 884.HC19-288 |
| 2.81-3.12 | 71-79 | 884.HC19-300 |
| 2.94-3.25 | 75-83 | 884.HC19-312 |
| 3.06-3.37 | 78-86 | 884.HC19-325 |
| 3.31-3.62 | 84-92 | 884.HC19-350 |

| Clamping Range (dia.) | | Art. No. |
|-----------------------|---------|---------------------|
| inches | mm | |
| 3.56-3.87 | 90-98 | 884.HC19-375 |
| 3.63-3.94 | 92-100 | 884.HC19-382 |
| 3.81-4.12 | 97-105 | 884.HC19-412 |
| 4.06-4.37 | 103-111 | 884.HC19-425 |
| 4.31-4.62 | 110-117 | 884.HC19-450 |
| 4.56-4.87 | 116-124 | 884.HC19-475 |
| 4.81-5.12 | 122-130 | 884.HC19-500 |
| 5.06-5.37 | 129-137 | 884.HC19-525 |
| 5.31-5.61 | 135-143 | 884.HC19-550 |
| 5.56-5.87 | 141-149 | 884.HC19-575 |
| 5.81-6.12 | 148-156 | 884.HC19-600 |

Application:

- Designed specifically for silicone hose connections in turbocharged diesel engine air intake and air charge air systems
- Solves hose "blow-off" failures resulting from cold flow or thermal expansions

CONSTANT TORQUE HOSE CLAMPS



| "A" Diameter | | Art. No. | P. Qty. |
|-----------------|-----------------|-----------------|---------|
| inches | mm | | |
| 1 1/16 - 1 1/4" | 17 mm - 32 mm | 549.0125 | 10 |
| 1 3/16 - 1 1/2" | 21 mm - 38 mm | 549.0150 | |
| 1 3/16 - 1 3/4" | 21 mm - 44 mm | 549.0175 | |
| 1 1/16 - 2" | 27 mm - 51 mm | 549.0195 | |
| 1 1/4" - 2 1/8" | 32 mm - 54 mm | 549.0200 | |
| 1 3/4" - 2 5/8" | 45 mm - 67 mm | 549.0250 | |
| 2 1/4" - 3 1/8" | 57 mm - 79 mm | 549.0300 | |
| 2 3/4" - 3 5/8" | 70 mm - 92 mm | 549.0350 | |
| 3 1/4" - 4 1/8" | 83 mm - 105 mm | 549.0400 | |
| 3 3/4" - 4 5/8" | 95 mm - 118 mm | 549.0450 | |
| 4 1/4" - 5 1/8" | 108 mm - 130 mm | 549.0500 | |

"Torque Check" provides visual proof of correct installation torque. This patented clamp is installed correctly as shown to the right when the screw tip "A" ("Torque Check") is extended beyond the housing, and the Belleville spring washer stacks are nearly collapsed flat. We recommend using a torque wrench.



These heavy duty clamps are recommended for use on turbo exhaust sleeves, heater hoses, coolant hoses, and intake systems.

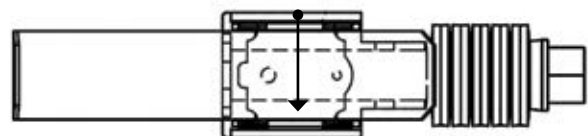
- Eliminates "cold flow hose leaks" & saves money in low coolant.
- Eliminates retightening clamps, saves money and mechanic labour.
- Stainless Steel; virtually unlimited product life - won't rust or corrode and is reusable.
- Extended Internal Liner; covers gear slots in band to protect all types of hoses from damage and helps maintain consistent sealing pressure.
- "Quadra-Lock" Housing; provides extra torque strength and stability for the ultimate in sealing pressure and vibration resistance.
- Fleet Standard; easily installed and easily replaced. No special tools needed.
- Reusable; eliminates the sometimes necessary replacement of expensive "single use" clamps during routine or emergency maintenance.
- Can be installed or replaced without removing the hose from connection; prevents massive and costly loss of engine coolant.
- Extended adjustment range; fewer parts needed for complete coverage.

Material

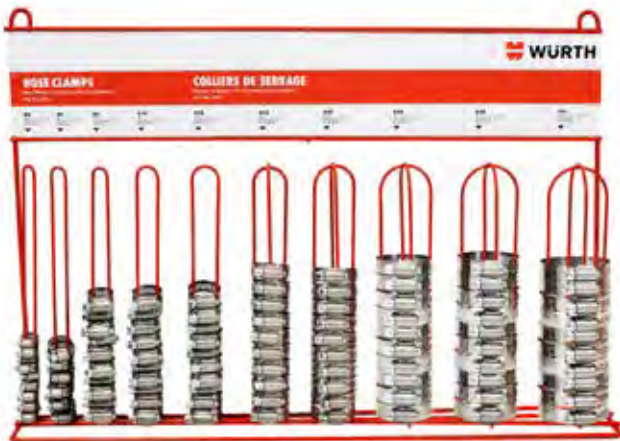
Belleville Springs - 301 Stainless Steel
 Band • Liner • Housing • Saddle - 300
 Stainless Steel
 Screw - Stainless Steel

Welded Liner Shown

Note: Liner is spot welded to band and saddle in one spot.



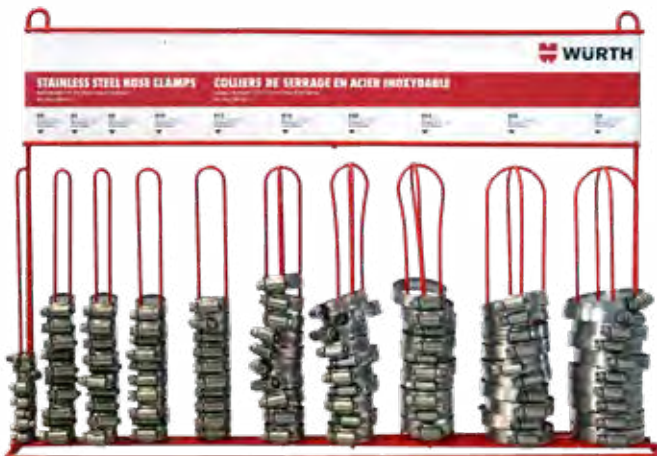
HOSE CLAMP ASSORTMENT



Art. No. 535.1

- Contains 100 Hose Clamps
- 10 of each: #4, #6, #8, #10, #12, #16, #20, #24, #28, #32
- Stands free or mounts on walls
- Will hold from 70 to approximately 175 Hose Clamps

STAINLESS STEEL HOSE CLAMP ASSORTMENT



Art. No. 535.SS.1

- Contains 100 hose clamps, 10 pieces of each of the following sizes: #36, #32, #24, #20, #16, #12, #10, #8, #6, #4

PIPE CLAMPS

Norma Pipe Clamp



- Steel, Zinc-Plated with vulcanized rubber insert
- Temperature range: -35 °C to +120 °C (-31 °F to +248 °F)
- Tensile strength: 100 kg/cm²
- Screw Hole Size: 1/4"
- Description in price list: Pipe size (i.d.)/band width/hole size

| Dia. in mm | Band Width | Hole Size | Art. No. | P. Qty. |
|------------|------------|-----------|--------------|---------|
| 6mm | 12mm | M5 | 542.6..12 | 50 |
| 8mm | | | 542.8..12 | |
| 8mm | 15mm | M6 | 542.8..15 | 1000 |
| 10mm | 12mm | M5 | 542.10.12 | |
| 10mm | | | 542.10.12.BK | |
| 10mm | 15mm | M6 | 542.10.15 | 50 |
| 12mm | | | 542.12.15 | |
| 15mm | | | 542.15.12 | |
| 15mm | | | 542.15.15 | |
| 15mm | 20mm | M8 | 542.15.20 | 25 |
| 18mm | 15mm | M6 | 542.18.15 | |
| 20mm | 20mm | M8 | 542.20.20 | |
| 22mm | | | 542.22.15 | |
| 25mm | 15mm | M6 | 542.25.15 | 10 |
| 25mm | 20mm | M8 | 542.25.20 | |
| 30mm | 15mm | M6 | 542.30.15 | 25 |
| 35mm | | | 542.35.15 | |
| 50mm | 25mm | M10 | 542.50.25 | 10 |

PIPE CLAMPS



Pipe Clamp c/w Rubber Insert

- Steel, Zinc-Plated with vulcanized rubber insert
- Screw Hole Size: 3/8"



Stainless Steel Tube Clamp 304

- High-Density Steel
- Chemically Treated G90
- Type 304 Annealed Stainless Steel
- 1/4" Mounting Hole
- Neoprene Insert

Stainless Steel Tube Clamp 316

- Retaining clip for pipes, cables, cable harnesses, cable-protection pipes, hoses and other lines.
- 316 Stainless Steel Band/W5
- Reinforced Band End
- EPDM Rubber Cushion

| Mount Hole | Band Size | Tube Size O.D. | Art. No. | P. Qty. |
|------------|-----------|----------------|----------|---------|
| 3/8" | 1/2" | 1/4" | 545.14 | 20 |
| | | 3/8" | 545.38 | |
| | | 1/2" | 545.12 | 10 |
| | | 5/8" | 545.58 | |
| | | 3/4" | 545.34 | 20 |
| | | 1" | 545.1 | |
| | | 1-1/4" | 545.114 | 10 |
| | | 1 1/2" | 545.112 | |
| | | 2-1/2" | 545.212 | |
| | | 2" | 545.2 | |
| | | 3" | 545.3 | 5 |
| | | 4" | 545.4 | |

| Dia. in inches | Width | Art. No. | P. Qty. |
|----------------|-------|----------|---------|
| 1/4" | 1/2" | 546.14 | 20 |
| 3/8" | | 546.38 | |
| 1/2" | | 546.12 | 10 |
| 5/8" | | 546.58 | |
| 3/4" | | 546.34 | 20 |
| 1" | | 546.1 | |
| 1-1/4" | | 546.114 | 10 |
| 1-1/2" | | 546.112 | |

| Screw Size | Band Width | Clamping Range (mm) | Clamping Range (inch) | Art. No. |
|------------|------------|---------------------|-----------------------|-----------|
| M5 | 12 | 45 | 1-3/4 | 546.45.12 |
| M6 | 15 | 10 | 3/8 | 546.11.15 |
| M6 | 15 | 14 | 9/16 | 546.14.15 |
| M6 | 15 | 22 | 7/8 | 546.22.15 |
| M6 | 15 | 25 | 1 | 546.25.15 |
| M6 | 15 | 39 | 1-9/16 | 546.39.15 |
| M6 | 15 | 45 | 1-3/4 | 546.45.15 |
| M6 | 15 | 49 | 1-7/8 | 546.49.15 |
| M6 | 15 | 56 | 2-3/16 | 546.56.15 |
| M6 | 15 | 65 | 2-9/16 | 546.65.15 |
| M6 | 15 | 80 | 3-5/32 | 546.80.15 |
| M6 | 15 | 95 | 3-3/4 | 546.95.15 |
| M8 | 20 | 29 | 13/16 | 546.29.20 |
| M8 | 20 | 39 | 1-9/16 | 546.39.20 |
| M8 | 20 | 80 | 3-5/32 | 546.80.20 |

ASSORTMENTS



Art. No. 964.542

Vulcanized Rubber Insert Pipe Clamp Assortment

Contents (73 Pieces):

12 assorted sizes, size range M3-M30



Art. No. 965.HC9

Two Ear Hose Clamp Assortment

Contents (226 pieces):

9 sizes of two ear clamps, and one pair of 11" tower pincers.



Art. No. 965.545

Clamps with Vulcanized Rubber Assortment

Contents (110 pieces)

NPT/SAE GREASE FITTINGS



Art. No. 987.14.10

1/4"-28, Straight - S.A.E.
Self Tapping, Overall Length:
9/16"



Art. No. 987.14.11

1/4"-28, Straight - S.A.E.
Thread Length: 7/32", Overall
Length: 9/16"



Art. No. 987.14.12

1/4"-28, Straight - S.A.E.
Overall Length: 15/16"



Art. No. 987.14.13

1/4" - 28, 45° Angle - S.A.E.
Thread Length: 29/32",
Overall Length: 27/32"



Art. No. 987.14.14

1/4" - 28, 45° Angle - S.A.E.
Long Grip Range, Taper Tread
Overall Length: 63/64"



Art. No. 987.14.15

1/4" - 28, 90° Angle - S.A.E.
Thread Length: 45/64"
Overall Length: 3/4"



Art. No. 987.18.20

1/8" NPT - Straight
Overall Length: 5/8"



Art. No. 987.18.21

1/8" NPT - 30° Angle
Overall length: 15/16"



Art. No. 987.18.22

1/8" NPT - 45° Angle
Overall Length: 1"



Art. No. 987.18.24

1/8" NPT - 90° Angle
Overall Length: 53/64"



Art. No. 987.14.20

1/4" NPT - Straight
Overall Length: 53/64"



Art. No. 987.14.21

1/4" NPT, 67 1/2° Angle
67-1/2° Angle
Overall Length: 1 1/16"



Art. No. 987.516.24

5/16"-24 - Straight
Overall length: 5/8"



Art. No. 987.18.10

1/8" NPT - Straight
Overall length: 1 1/4"

GREASE NIPPLES

DIN 71412 A, B, C, Steel galvanized, blue passivated



| DIN | Thread | Thread length (mm) | Total length (mm) | Size (mm) | Art. No. |
|---------|-----------|--------------------|-------------------|---------------|----------------|
| 71412 A | M6 x 1 | 4.0 | 14 | 7 | 986.40 |
| | M8 x 1 | 5.4 | 16 | 9 | 986.41 |
| | M8 x 1.25 | 5.4 | 16 | 9 | 986.135 |
| | M10 x 1 | 5.4 | 16 | 11 | 986.42 |
| | M10 x 1.5 | 5.4 | 16 | 11 | 986.136 |
| | 1/8" | 5.4 | 16 | 11 | 986.43 |
| | 1/4" | 6.5 | 19.5 | 14 | 986.44 |
| 3/8" | 6.5 | 19.5 | 17 | 986.45 | |

Conical Nipples



| DIN | Lug \varnothing mm | Lug length (mm) | Total length (mm) | Art. No. |
|---------|----------------------|-----------------|-------------------|---------------|
| 71412 A | 6 | 5.4 | 14 | 986.46 |
| | 8 | 5.4 | 15 | 986.47 |

Conical Knock-In Nipples



| DIN | Thread | Thread length (mm) | Total length (mm) | Size (mm) | Art. No. |
|---------|---------|--------------------|-------------------|-----------|---------------|
| 71412 B | M6 x 1 | 5.5 | 20 | 9 | 986.50 |
| | M8 x 1 | 5.5 | 20 | 9 | 986.51 |
| | M10 x 1 | 5.0 | 20 | 11 | 986.52 |

45° Conical Nipples



| DIN | Thread | Thread length (mm) | Total length (mm) | Size (mm) | Art. No. |
|---------|---------|--------------------|-------------------|-----------|---------------|
| 71412 C | M6 x 1 | 5.5 | 18 | 9 | 986.60 |
| | M8 x 1 | 5.5 | 18 | 9 | 986.61 |
| | M10 x 1 | 6.0 | 18 | 11 | 986.62 |

90° Conical Nipples

ASSORTMENTS



Art. No. 965.986987

Grease Fitting Assortment
Contents (220 Pieces)
 Metric and standard fittings

LINE AND TEE CONNECTORS (NYLON) AND VACUUM CAPS



Straight Barbed Hose Connector

Art. No. 885.10 + size



Straight Barbed Hose Connector Reducer

Art. No. 885.30.1 - (1/4-3/16")
Art. No. 885.30.2 - (3/8-1/4")



Straight Hose Connector Reducer - 3/16 to 1/8. GM/FORD/CHRYSLER Products

Art. No. 885.316.18



Straight Hose Connector Reducer - 1/4 to 3/16. All GM Products

Art. No. 885.30.3



Tee Hose Connector - equal diameter all ends

Art. No. 885.20 + size



Tee Hose Connector 2 x 1/4" ends, 1 x 3/16" end. All GM Products

Art. No. 885.316.14



Universal Break-Off Tee For 1/8", 1/4" and 3/8" tubing

Art. No. 885.50.1



Universal Straight Connector For 1/8", 1/4" and 3/8" tubing

Art. No. 885.50.2

Vacuum Cap



| Fits Tube O.D. | Inside Length | Art. No. | P. Qty. |
|----------------|---------------|----------|---------|
| 1/8" | 9/16" | 801.818 | 20 |
| 3/16" | 9/16" | 801.836 | |
| 1/4" | 9/16" | 801.814 | |
| 5/16" | 1-1/4" | 801.856 | |
| 3/8" | 31/32" | 801.838 | |

Can be used for capping lines and hoses while testing carburetors, emission control systems, vacuum lines, etc.

ASSORTMENTS



Art. No. 965.885

Vacuum Cap & Tee Connector Assortment

Contents (132 Pieces):

13 Assorted sizes

FUEL LINE & WINDSHIELD WASHER/VACUUM TUBING



Flexible Transparent Hose

- PVC with special interior coating
- Made of flexible type, transparent PVC
- Operating Pressure: 142.2 psi
- Bursting Pressure: 256 psi
- Temperature after installation: +65° C

| Length (m) | Inside Dia. (mm) | Wall Thick. (mm) | Overall Thick. (mm) | Art. No. |
|------------|------------------|------------------|---------------------|--------------|
| 15 m | 4 | 1.0 | 6.0 | 895.4 |
| | 5 | 1.2 | 7.4 | 895.5 |
| | 6 | | 8.4 | 895.6 |
| | 8 | 1.5 | 11.0 | 895.8 |



Fuel Line/Evaporative Hose S.A.E. 30R7

- Features a nitrile tube with a CSM cover to withstand oil, grease, abrasion and ozone
- Temperature ranges from -34 °C to 125 °C (-29 °F to 257 °F)
- Meets all O.E.M. specifications
- Handles most modern fuels in automobiles, trucks, buses, etc.
- Bursting Pressure: 250 psi

| Diameter (inches) | Diameter (mm) | Art. No. |
|-------------------|---------------|----------------|
| 1/4 | 6.3 | 897.502 |
| 5/16 | 8 | 897.503 |
| 3/8 | 10 | 897.504 |



Textile Braided Repair Line

- For non-fuel carrying applications
- Hose of synthetic rubber (NBR) with vulcanized-on outer twine braiding.
- Material: NBR/braiding
- Operating Pressure: 175 psi
- Bursting Pressure: 720 psi
- Test Pressure: 360 psi
- -20 °C to +70 °C

Areas of Application:

Can be used as leak-oil line in motor vehicle applications.

| Inside Dia. (mm) | Wall Thickness (mm) | Overall Thickness (mm) | Art. No. |
|------------------|---------------------|------------------------|----------------|
| 3.2 | 1.9 | 7.0 | 895.132 |
| 3.5 | 2.0 | 7.5 | 895.135 |
| 5.0 | 2.5 | 10.0 | 895.150 |
| 5.5 | | 10.5 | 895.155 |
| 7.0 | | 12.0 | 895.170 |
| 7.5 | | 12.2 | 895.175 |



Windshield Washer & Vacuum Tubing S.A.E. J1037

- Low pressure tubing for windshield washer, vacuum operated accessories, and emission control applications
- Will not deteriorate from heat, weathering or ozone
- Maintains its flexibility even at low temperatures
- Meets all O.E.M. specifications
- Bursting Pressure: 100 psi
- Temperature resistance: -40° C to +125° C -40° F to + 257° F

| Diameter (inches) | Diameter (mm) | Art. No. |
|-------------------|---------------|-----------------|
| 3/32 | 2.381 | 897.3338 |
| 7/64 | 2.8 | 897.3339 |
| 5/32 | 4 | 897.3340 |
| 7/32 | 6.6 | 897.3341 |
| 9/32 | 7 | 897.3342 |

FUEL INJECTION HOSE



Designed for the extremely high temperatures generated by today's fuel injected engines.

- Temperature range of -34 °C to +125 °C (-30 °F to +257 °F), (150 °C/302 °F intermittent) with a burst pressure rating of 900 psi
- This special hose handles leaded, unleaded, alcohol-added, diesel and extended gasolines, resisting sour gas oxidation

| | |
|----------------------------|--------------------------------|
| Temperature range | -34°C to 125°C (-30°F + 257°F) |
| Burst pressure rating | up to 900 psi |
| Application | Fuel line |
| Style | Fuel injection (S.A.E. 30R9) |
| Color | Black |
| Tube construction | Fluoroelastomer |
| Reinforcement construction | Two-spiral polyester |
| Cover construction | CSM |

| Size | Art. No. |
|-----------|----------------|
| 1/4"x10' | 897.602 |
| 5/16"x10' | 897.603 |
| 3/8"x10' | 897.604 |

FUEL HOSE RACK WITH PRODUCT



Domestic Fuel Hose Rack Empty
Art. No. 966.810110

Art. No. 895.010

Contents:

3 fuel hose rolls:

- 1/4" (6.3 mm), Art. No. 897.502
- 5/16" (7.9 mm), Art. No. 897.503
- 3/8" (9.5 mm), Art. No. 897.504

3 windshield wiper/washer vacuum tubing rolls:

- 5/32" (4mm), Art. No. 897.3340
- 7/32" (6 mm), Art. No. 897.3341
- 9/32" (7 mm), Art. No. 897.3342

Dimensions: 58 cm x 34 cm x 32 cm

SILICONE HEATER HOSE



- Resistant to cracking, peeling, ozone and aging
- Temperature resistant from -54 °C to +177 °C (-65 °F to +350 °F)
- S.A.E. J20 R3 Class A certified
- Single ply silicone polyester braid, reinforced tube with blue cover

Applications:

- Heavy duty truck and bus engines
- Buses
- Vehicles with diesel engines
- For use in high vibration, hot and cold air aspiration units
- Ideal for heavy duty pressure connections in hostile engine environments, extreme temperature and various pressure ranges where high performance levels are required

| Size | Hose I.D. | | Hose O.D. | | Min. Burst Pressure | | Art. No. | P. Qty. |
|------|-----------|------|-----------|------|---------------------|-----|-----------------|---------|
| | mm | in | mm | in | bar | PSI | | |
| 5/8" | 16.00 | 0.63 | 23.60 | 0.93 | 17 | 250 | 897.8158 | 25' |
| 3/4" | 19.10 | 0.75 | 27.20 | 1.07 | 14 | 200 | 897.8134 | |
| 1" | 22.40 | 0.88 | 31.50 | 1.24 | 14 | 200 | 897.8111 | |

STANDARD HEATER HOSE



Thermoid EPDM (Ethylene/Propylene Rubber Compound) hose is designed to withstand the super-high heat and ozone conditions found in today's emission controlled automobiles and trucks.

All meet or exceed S.A.E. 20R3 Specifications

Red Premium - S.A.E. 20R3 D2 Heater Hose

- For higher under hood temperatures up to 121 °C (250 °F)
- Withstands the abuse of additives, heat and ozone
- Designed for cosmetic reasons, to make the hose stand out under the hood

Characteristics:

Branding: White Ink, Thermoid, I.D. Spec. O.E.M. Heater Hose
Reinforcement: 2 spiral polyester yarn

Black Standard Grade O.E.M Heater Hose

- For under hood temperatures up to 100 °C (212 °F)
- Withstands the abuse of additives, heat and ozone

Characteristics:

Branding: Yellow Ink; Thermoid, I.D. Spec. O.E.M. Heater Hose
Hose Reinforcement: 2 spiral polyester yarn

| Inside Diameter (inches) | Working Pressure (psi) | Bursting Pressure (psi) | Length (feet) | Art. No. |
|--------------------------|------------------------|-------------------------|---------------|-----------------|
| 1/2 | 50 | 250 | 50 | 897.7112 |
| 5/8 | | | | 897.7158 |
| 3/4 | | | | 897.7134 |

| Inside Diameter (inches) | Working Pressure (psi) | Bursting Pressure (psi) | Length (feet) | Art. No. |
|--------------------------|------------------------|-------------------------|---------------|-----------------|
| 5/8 | 50 | 140 | 50 | 895.1826 |
| 3/4 | | | | 895.1827 |

BRASS J.I.C. 37° FLARE



| Union Coupling | |
|----------------|------------|
| Tube | Art. No. |
| 1/4 | 884.3742-4 |
| 1/2 | 884.3742-8 |



| Connector Tube to Male Pipe | | |
|-----------------------------|------|-------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.3748-4A |
| | 1/4 | 884.3748-5A |
| 5/16 | 1/8 | 884.3748-5A |
| | 1/4 | 884.3748-5B |
| 3/8 | 1/4 | 884.3748-6B |



| 45° Elbow Tube to Male Pipe | | |
|-----------------------------|------|-------------|
| Tube | Pipe | Art. No. |
| 3/8 | 1/4 | 884.3754-6B |
| 1/2 | 3/8 | 884.3754-8C |

BRASS S.A.E 45° FLARE



| Sealing Cap Nut | |
|-----------------|-----------|
| Tube | Art. No. |
| 1/4 | 884.56-4 |
| 3/8 | 884.56-6 |
| 1/2 | 884.56-8 |
| 5/8 | 884.56-10 |



| Milled Nut Short Type | | |
|-----------------------|--------|-----------|
| Tube | Length | Art. No. |
| 3/8 | 7/8 | 884.415-6 |



| Sealing Plug | |
|--------------|-----------|
| Tube | Art. No. |
| 1/4 | 884.58-4 |
| 5/16 | 884.58-5 |
| 3/8 | 884.58-6 |
| 1/2 | 884.58-8 |
| 5/8 | 884.58-10 |



| Union Coupling Tube to Tube | |
|-----------------------------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.42-2 |
| 3/16 | 884.42-3 |
| 1/4 | 884.42-4 |
| 5/16 | 884.42-5 |
| 3/8 | 884.42-6 |
| 1/2 | 884.42-8 |
| 5/8 | 884.42-10 |
| 3/4 | 884.42-12 |



| Connector Tube to Male Pipe | | |
|-----------------------------|------|------------|
| Tube | Pipe | Art. No. |
| 3/16 | 1/8 | 884.48-3A |
| | 1/4 | 884.48-4A |
| 1/4 | 1/4 | 884.48-4B |
| | 1/2 | 884.48-4D |
| 5/16 | 1/4 | 884.48-5B |
| | 1/8 | 884.48-6A |
| 3/8 | 1/4 | 884.48-6B |
| | 3/8 | 884.48-6C |
| | 1/2 | 884.48-6D |
| 1/2 | 1/4 | 884.48-8B |
| | 3/8 | 884.48-8C |
| | 1/2 | 884.48-8D |
| 5/8 | 3/8 | 884.48-10C |
| | 1/2 | 884.48-10D |
| 3/4 | 1/2 | 884.48-12D |



| 90° Elbow Tube to Male Pipe | | |
|-----------------------------|------|-------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.49-4A |
| | 1/4 | 884.49-4B |
| | 3/8 | 884.49-4C |
| 5/16 | 1/8 | 884.49-5A |
| | 1/4 | 884.49-6B |
| 3/8 | 3/8 | 884.49-6C |
| | 1/2 | 884.49-6D |
| | 1/4 | 884.49-8B |
| 1/2 | 3/8 | 884.49-8C |
| | 1/2 | 884.49-8D |
| 5/8 | 3/8 | 884.49-10C |
| | 1/2 | 884.49-10D |
| 3/4 | 1/2 | 884.49-12D |
| 3/8 | 1/4 | 884.49E-6B* |



| 45° Elbow Tube to Male Pipe | | |
|-----------------------------|------|------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.54-4A |
| | 1/4 | 884.54-4B |
| 3/8 | 1/4 | 884.54-6B |
| | 3/8 | 884.54-6C |
| 1/2 | 3/8 | 884.54-8C |
| | 1/2 | 884.54-8D |
| 5/8 | 1/2 | 884.54-10D |

BRASS S.A.E. 45° INVERTED FLARE



| Specialty Nuts Japanese Standard | | |
|----------------------------------|-----------|--------------------|
| Tube | Thread | Art. No. |
| 3/16 | M10 x 1.0 | 884.SJ141-3 |



| Steel nut long style | |
|----------------------|--------------------|
| Tube | Art. No. |
| 3/16 | 884.SL141-3 |
| 1/4 | 884.SL141-4 |



| Steel nut long style Japanese Standard | | |
|--|-----------|---------------------|
| Tube | Thread | Art. No. |
| 3/16 | M10 x 1.0 | 884.SLJ141-3 |



| Fuel Line Nut GM | | |
|------------------|------------|---------------------|
| Tube | Thread | Art. No. |
| 5/16 | 14mm x 1.5 | 884.SFL514MM |
| 3/8 | 16mm x 1.5 | 884.SFL616MM |



| Union Coupling-Tube to Tube European Standard | | |
|---|-------------------------|--------------------|
| Tube | Thread | Art. No. |
| 3/16 | 10 x 1.0 (Bubble Flare) | 884.142EU-3 |



| Union Coupling-Tube to Tube Japanese Standard Union | | |
|---|----------|--------------------|
| Tube | Thread | Art. No. |
| 3/16 | 10 x 1.0 | 884.142JA-3 |



| Adapter-Tube to Tube European Standard | | |
|--|-------------------------|--------------------|
| Tube | Thread | Art. No. |
| 3/16 | 10 x 1.0 (Bubble Flare) | 884.5E143-3 |



| Sealing Plug | |
|--------------|--------------------|
| Tube | Art. No. |
| 3/16 | 884.PL141-3 |



| Union Coupling Tube to Tube | |
|-----------------------------|------------------|
| Tube | Art. No. |
| 3/16 | 884.142-3 |
| 1/4 | 884.142-4 |
| 5/16 | 884.142-5 |
| 3/8 | 884.142-6 |



| Brass Nut | |
|-----------|------------------|
| Tube | Art. No. |
| 3/16 | 884.141-3 |
| 1/4 | 884.141-4 |
| 5/16 | 884.141-5 |
| 3/8 | 884.141-6 |

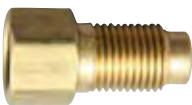


| 90° Elbow Tube to Male Pipe | | |
|-----------------------------|------|-------------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/4 | 884.149-4B |
| 5/16 | 1/8 | 884.149-5A |
| 3/8 | 3/8 | 884.149-6C |
| 1/2 | 3/8 | 884.149-8C |
| | 1/2 | 884.149-8D |



| Specialty Nuts European Standard | | |
|----------------------------------|-----------|----------------------|
| Tube | Thread | Art. No. |
| 3/16 | M10 x 1.0 | 884.S141-3 |
| | M11 x 1.5 | 884.5E141311M |
| | M12 x 1.0 | 884.5E141312M |
| | M13 x 1.5 | 884.5E141313M |

* Plating may vary due to availability



| Adapter tube to tube Japanese Standard | | |
|--|----------|--------------------|
| Tube | Thread | Art. No. |
| 3/16 | 10 x 1.0 | 884.SJ143-3 |



| Connector Tube to Male Pipe | | |
|-----------------------------|------|-------------------|
| Tube | Pipe | Art. No. |
| 3/16 | 1/8 | 884.148-3A |
| 1/4 | 1/8 | 884.148-4A |
| | 1/4 | 884.148-4B |
| 5/16 | 1/4 | 884.148-5B |



| 45° Elbow Tube for Male Pipe | | |
|------------------------------|--------|-------------------|
| Tube | Thread | Art. No. |
| 3/8 | 1/4 | 884.154-6B |



| Steel Nut | | |
|-----------|---------|----------------------|
| Tube | Thread | Art. No. |
| 1/8 | 5/16-28 | 884.S141-2 |
| 3/16 | 3/8-24 | 884.S141-3 |
| 3/16 | 7/16-24 | 884.S141-3716 |
| 3/16 | 1/2-20 | 884.S141-31/2 |
| 3/16 | 9/16-18 | 884.S141-3916 |
| 1/4 | 7/16-24 | 884.S141-4 |
| 1/4 | 1/2-20 | 884.S141-41/2 |
| 1/4 | 9/16-18 | 884.S141-4916 |
| 5/16 | 1/2-20 | 884.S141-5 |
| 3/8 | 5/8-18 | 884.S141-6 |

BRASS COMPRESSION FITTINGS



| Standard Sleeve | |
|-----------------|----------|
| Tube | Art. No. |
| 1/8 | 884.60-2 |
| 3/16 | 884.60-3 |
| 1/4 | 884.60-4 |
| 3/8 | 884.60-6 |
| 1/2 | 884.60-8 |



| Standard Nut | |
|--------------|----------|
| Tube | Art. No. |
| 3/16 | 884.61-3 |
| 1/4 | 884.61-4 |
| 5/16 | 884.61-5 |
| 3/8 | 884.61-6 |



| Union Coupling | |
|----------------|-----------|
| Tube | Art. No. |
| 1/8 | 884.62-2 |
| 3/16 | 884.62-3 |
| 1/4 | 884.62-4 |
| 5/16 | 884.62-5 |
| 3/8 | 884.62-6 |
| 1/2 | 884.62-8 |
| 5/8 | 884.62-10 |



| Tee Tube Three Ends | |
|---------------------|----------|
| Tube | Art. No. |
| 1/4 | 884.64-4 |
| 3/8 | 884.64-6 |



| Connector Tube to Male Pipe | | |
|-----------------------------|------|-----------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.68-4A |
| | 1/4 | 884.68-4B |
| 5/16 | 1/8 | 884.68-5A |
| | 1/4 | 884.68-6A |
| 3/8 | 1/4 | 884.68-6B |
| | 3/8 | 884.68-6C |
| | 1/2 | 884.68-6D |
| 1/2 | 3/8 | 884.68-8C |



* Style may vary due to availability

| 90° Elbow Tube to Male Pipe | | |
|-----------------------------|------|-----------|
| Tube | Pipe | Art. No. |
| 1/8 | 1/8 | 884.69-2A |
| | 1/4 | 884.69-4A |
| 1/4 | 1/4 | 884.69-4B |
| | 1/2 | 884.69-6B |
| 3/8 | 1/2 | 884.69-6D |
| | 3/8 | 884.69-8C |

BRASS FITTINGS (FOR POLY TUBING)



| Brass Insert | |
|--------------|------------|
| Tube | Art. No. |
| .125 | 884.481-4H |
| .250 | 884.481-6 |
| .375 | 884.481-8 |
| .500 | 884.481-10 |

BRASS AIR SHIF TRANSMISSION FITTINGS



| Sleeve | |
|--------|---------------|
| Tube | Art. No. |
| 1/8 | 884.860-2 |
| 5/32 | 884.860-2-1/2 |



| Nut | |
|------|---------------|
| Tube | Art. No. |
| 1/8 | 884.861-2 |
| 5/32 | 884.861-2-1/2 |



| Union Coupling | |
|----------------|---------------|
| Tube | Art. No. |
| 5/32 | 884.862-2-1/2 |



| Connector Tube to Male Pipe | | |
|-----------------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 1/8 | 1/16 | 884.868-2-1 |
| 1/8 | 1/8 | 884.868-2A |
| 5/32 | 1/8 | 884.868-2-1/2 |



| 90° Elbow Tube to Male Pipe | | |
|-----------------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 1/8 | 1/8 | 884.869-2A |
| 5/32 | | 884.869-2-1/2 |

* Style may vary due to availability

BRASS PUSH-TO-CONNECT FITTINGS



| Union Coupling | |
|----------------|------------|
| Tube | Art. No. |
| 1/8 | 884.PC62-2 |
| 1/4 | 884.PC62-4 |
| 3/8 | 884.PC62-6 |



| Connector Tube to Male Pipe | | |
|-----------------------------|------|-------------|
| Tube | Pipe | Art. No. |
| 1/8 | 1/8 | 884.PC68-2A |
| | 1/4 | 884.PC68-4A |
| 3/8 | 3/8 | 884.PC68-6C |
| | 1/2 | 884.PC68-6D |
| 1/2 | 3/8 | 884.PC68-8C |
| | 1/2 | 884.PC68-8D |



| 90° Elbow Tube to Tube | |
|------------------------|--------------|
| Tube | Art. No. |
| 1/8 | 884.PC65-2 |
| 5/32 | 884.PC65-2-1 |
| 3/8 | 884.PC65-6 |



| 90° Elbow Tube to Male Pipe | | |
|-----------------------------|------|-------------|
| Tube | Pipe | Art. No. |
| 1/8 | 1/8 | 884.PC69-2A |
| | 1/8 | 884.PC69-4A |
| 1/4 | 3/8 | 884.PC69-4C |
| | 1/4 | 884.PC69-6B |
| 3/8 | 3/8 | 884.PC69-6C |



| 90° Elbow Tube to Male Pipe Swivel | | |
|------------------------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 5/32 | 1/8 | 884.PC69SW212 |
| 3/8 | 1/4 | 884.PC69SW-6B |

BRASS PIPE FITTINGS



| Close Nipple | |
|--------------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.112-A |
| 1/4 | 884.112-B |
| 3/8 | 884.112-C |
| 1/2 | 884.112-D |
| 3/4 | 884.112-E |



| Hex Nipple | |
|------------|------------|
| Pipe | Art. No. |
| 1/8 | 884.122-A |
| 1/4 | 884.122-B |
| 3/8 | 884.122-C |
| 1/2 | 884.122-D |
| 3/4 | 884.122-E |
| Reducing | |
| 1/4 to 1/8 | 884.122-BA |
| 3/8 to 1/8 | 884.122-CA |
| 3/8 to 1/4 | 884.122-CB |
| 1/2 to 3/8 | 884.122-DC |
| 3/4 to 1/2 | 884.122-ED |



| Bushing | |
|------------|------------|
| Pipe | Art. No. |
| 1/4 to 1/8 | 884.110-BA |
| 3/8 to 1/8 | 884.110-CA |
| 3/8 to 1/4 | 884.110-CB |
| 1/2 to 1/8 | 884.110-DA |
| 1/2 to 1/4 | 884.110-DB |
| 1/2 to 3/8 | 884.110-DC |
| 3/4 to 1/4 | 884.110-EB |
| 3/4 to 3/8 | 884.110-EC |
| 3/4 to 1/2 | 884.110-ED |
| 1 to 3/4 | 884.110-HE |



| Adapter | |
|------------|------------|
| Pipe | Art. No. |
| 1/8 to 1/8 | 884.120-AA |
| 1/4 to 1/4 | 884.120-BB |
| 3/8 to 3/8 | 884.120-CC |
| 1/2 to 1/2 | 884.120-DD |
| 1/4 to 1/8 | 884.120-BA |
| 3/8 to 1/8 | 884.120-CA |
| 3/8 to 1/4 | 884.120-CB |
| 1/2 to 1/4 | 884.120-DB |
| 1/2 to 3/8 | 884.120-DC |
| 3/4 to 3/8 | 884.120-EC |
| 3/4 to 1/2 | 884.120-ED |



| Long Nipple | | |
|-------------|------|---------------|
| Length | Pipe | Art. No. |
| 1 1/2 | 1/8 | 884.113A1-1/2 |
| 2 | | 884.113-A2 |
| 3 | | 884.113-A3 |
| 1 1/2 | 1/4 | 884.113-B1-1 |
| 2 | | 884.113-B2 |
| 3 | | 884.113-B3 |
| 1 1/2 | 3/8 | 884.113-C1-1 |
| 2 | | 884.113-C2 |
| 3 | | 884.113-C3 |
| 2 | 1/2 | 884.113-D2 |
| 2 1/2 | | 884.113-D2-1 |
| 3 | | 884.113-D3 |



| Reducing Coupling | |
|-------------------|------------|
| Pipe | Art. No. |
| 1/4 to 1/8 | 884.119-BA |
| 3/8 to 1/8 | 884.119-CA |
| 3/8 to 1/4 | 884.119-CB |
| 1/2 to 1/4 | 884.119-DB |
| 1/2 to 3/8 | 884.119-DC |



| Coupling | |
|----------|------------|
| Pipe | Art. No. |
| 1/8 | 884.103E-A |
| 1/4 | 884.103E-B |
| 3/8 | 884.103E-C |
| 1/2 | 884.103E-D |
| 3/4 | 884.103E-E |



| Plug Square Head | |
|------------------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.109-A |
| 1/4 | 884.109-B |
| 3/8 | 884.109-C |
| 1/2 | 884.109-D |
| 3/4 | 884.109-E |



| Plug Slotted | |
|--------------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.117-A |



| Plug Hex Head | |
|---------------|-----------|
| Pipe | Art. No. |
| cored 1/8 | 884.121-A |
| cored 1/4 | 884.121-B |
| cored 3/8 | 884.121-C |
| cored 1/2 | 884.121-D |
| cored 3/4 | 884.121-E |

BRASS PIPE FITTINGS



| Extruded 90° Street Elbow | |
|---------------------------|------------|
| Pipe | Art. No. |
| 1/8 | 884.X115-A |
| 1/4 | 884.X115-B |
| 3/8 | 884.X115-C |
| 1/2 | 884.X115-D |
| 3/4 | 884.X115-E |



| Extruded 90° Elbow | |
|--------------------|------------|
| Pipe | Art. No. |
| 1/8 | 884.X100-A |
| 1/4 | 884.X100-B |
| 3/8 | 884.X100-C |
| 1/2 | 884.X100-D |



| Extruded 45° street Elbow | |
|---------------------------|------------|
| Pipe | Art. No. |
| 1/8 | 884.X124-A |
| 1/4 | 884.X124-B |
| 3/8 | 884.X124-C |
| 1/2 | 884.X124-D |
| 3/4 | 884.X124-E |



| Extruded Tee | |
|--------------|------------|
| Pipe | Art. No. |
| 1/8 | 884.X101-A |
| 1/4 | 884.X101-B |
| 3/8 | 884.X101-C |
| 1/2 | 884.X101-D |



| Plug Hex Countersunk | |
|----------------------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.118-A |
| 1/4 | 884.118-B |
| 3/8 | 884.118-C |
| 1/2 | 884.118-D |
| 3/4 | 884.118-E |



| Extruded Male Branch Tee | |
|--------------------------|------------|
| Pipe | Art. No. |
| 1/8 | 884.X106-A |
| 1/4 | 884.X106-B |



| Forged Street Tee | |
|-------------------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.107-A |
| 1/4 | 884.107-B |



| Extruded Street Tee | |
|---------------------|------------|
| Pipe | Art. No. |
| 1/8 | 884.X107-A |
| 1/4 | 884.X107-B |
| 3/8 | 884.X107-C |
| 1/2 | 884.X107-D |



| Cap | |
|------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.108-A |
| 1/4 | 884.108-B |
| 3/8 | 884.108-C |
| 1/2 | 884.108-D |
| 3/4 | 884.108-E |

* Square countersunk

BRASS D.O.T. AIR BRAKE FITTINGS FOR S.A.E. J844D NYLON TUBING COMPLETE WITH FIXED INSERTS 1/2



| Brass Insert | | |
|--------------|--------------------|--|
| Tube | Art. No. | |
| .078 | 884.1481-2 | |
| .170 | 884.1481-4 | |
| .232 | 884.1481-5 | |
| .250 | 884.1481-6 | |
| .375 | 884.1481-8 | |
| .440 | 884.1481-10 | |
| .566 | 884.1481-12 | |



| Sleeve | | |
|--------|--------------------|--|
| Tube | Art. No. | |
| 1/4 | 884.1460-4 | |
| 3/8 | 884.1460-6 | |
| 1/2 | 884.1460-8 | |
| 5/8 | 884.1460-10 | |
| 3/4 | 884.1460-12 | |



| Nut | | |
|------|--------------------|--|
| Tube | Art. No. | |
| 1/4 | 884.1461-4 | |
| 3/8 | 884.1461-6 | |
| 1/2 | 884.1461-8 | |
| 5/8 | 884.1461-10 | |
| 3/4 | 884.1461-12 | |



| Bulkhead Union | | |
|----------------|-------------------|--|
| Tube | Art. No. | |
| 1/4 | 884.1477-4 | |
| 3/8 | 884.1477-6 | |



| Connector Tube to Female Pipe | | |
|-------------------------------|------|---------------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.1466-4A |
| | 1/4 | 884.1466-4B |
| 3/8 | 1/4 | 884.1466-6B |
| | 3/8 | 884.1466-6C |
| 1/2 | 3/8 | 884.1466-8C |
| 3/4 | 1/2 | 884.1466-12D |

* Style may vary due to availability



| Connector Tube to male Pipe | | |
|-----------------------------|------|---------------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.1468-4A |
| | 1/4 | 884.1468-4B |
| | 3/8 | 884.1468-4C |
| 3/8 | 1/8 | 884.1468-6A |
| | 1/4 | 884.1468-6B |
| | 3/8 | 884.1468-6C |
| 1/2 | 1/2 | 884.1468-6D |
| | 1/4 | 884.1468-8B |
| | 3/8 | 884.1468-8C |
| 1/2 | 1/2 | 884.1468-8D |
| | 3/4 | 884.1468-8E |
| | 5/8 | 884.1468-10C |
| 3/4 | 3/8 | 884.1468-10D |
| | 1/2 | 884.1468-12D |
| | 3/4 | 884.1468-12E |



| 90° Elbow Tube to Tube | | |
|------------------------|--------------------|--|
| Tube | Art. No. | |
| 1/4 | 884.1465-4 | |
| 3/8 | 884.1465-6 | |
| 1/2 | 884.1465-8 | |
| 5/8 | 884.1465-10 | |

* Style may vary due to availability



| 90° Elbow Tube to Male Pipe | | |
|-----------------------------|------|---------------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.1469-4A |
| | 1/4 | 884.1469-4B |
| | 3/8 | 884.1469-4C |
| 3/8 | 1/8 | 884.1469-6A |
| | 1/4 | 884.1469-6B |
| | 3/8 | 884.1469-6C |
| 1/2 | 1/2 | 884.1469-6D |
| | 1/4 | 884.1469-8B |
| | 3/8 | 884.1469-8C |
| 1/2 | 1/2 | 884.1469-8D |
| | 3/8 | 884.1469-10C |
| | 5/8 | 884.1469-10D |
| 3/4 | 1/2 | 884.1469-12D |
| | 3/4 | 884.1469-12E |



| Tee Ends Tube and Male Pipe Centre Tube | | |
|---|------|--------------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.1471-4A |
| | 1/4 | 884.1471-4B |
| 3/8 | 1/4 | 884.1471-6B |
| | 3/8 | 884.1471-6C |
| 1/2 | 3/8 | 884.1471-8C |
| | 1/2 | 884.1471-8D |



| Tee Ends Tube Centre Male Pipe | | |
|--------------------------------|------|--------------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.1472-4A |
| | 1/4 | 884.1472-4B |
| 3/8 | 1/8 | 884.1472-6A |
| | 1/4 | 884.1472-6B |
| 1/2 | 3/8 | 884.1472-6C |
| | 1/2 | 884.1472-8C |
| 1/2 | 1/2 | 884.1472-8D |

* Style may vary due to availability



| 45° Elbow Tube to Male Pipe | | |
|-----------------------------|------|---------------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.1474-4A |
| | 1/4 | 884.1474-4B |
| 3/8 | 1/4 | 884.1474-6B |
| | 3/8 | 884.1474-6C |
| 1/2 | 3/8 | 884.1474-8C |
| | 1/2 | 884.1474-8D |
| 5/8 | 1/2 | 884.1474-10D |

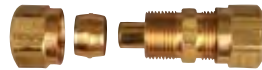


| Tee Tube Three Ends | | |
|---------------------|--------------------|--|
| Tube | Art. No. | |
| 1/4 | 884.1464-4 | |
| 3/8 | 884.1464-6 | |
| 1/2 | 884.1464-8 | |
| 5/8 | 884.1464-10 | |
| 3/4 | 884.1464-12 | |

BRASS PUSH-TO-CONNECT D.O.T. AIR BRAKE FITTINGS FOR S.A.E. J844D NYLON TUBING



| Union Coupling | | |
|----------------|--|---------------|
| Tube | | Art. No. |
| 5/32 | | 884.PC1462-5/ |
| 1/4 | | 884.PC1462-4 |
| 3/8 | | 884.PC1462-6 |
| 1/2 | | 884.PC1462-8 |
| 5/8 | | 884.PC1462-10 |



| Union Coupling | | |
|----------------|--|-------------|
| Tube | | Art. No. |
| 1/4 | | 884.1462-4 |
| 3/8 | | 884.1462-6 |
| 1/2 | | 884.1462-8 |
| 5/8 | | 884.1462-10 |
| 3/4 | | 884.1462-12 |



| 45° Elbow Tube to Male Pipe | | |
|-----------------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/4 | 884.PC1474-4B |
| 3/8 | 1/4 | 884.PC1474-6B |
| | 3/8 | 884.PC1474-6C |
| 1/2 | 3/8 | 884.PC1474-8C |



| 90° Elbow Tube to Female Pipe | | |
|-------------------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.PC1470-4A |
| 3/8 | 3/8 | 884.PC1470-6C |

* Style may vary due to availability



| 90° Elbow Tube to Male Pipe | | |
|-----------------------------|------|----------------|
| Tube | Pipe | Art. No. |
| 5/32 | 1/8 | 884.PC1469-5/ |
| 1/4 | 1/8 | 884.PC1469-4A |
| 1/4 | 1/4 | 884.PC1469-4B |
| 1/4 | 3/8 | 884.PC1469-4C |
| 3/8 | 1/8 | 884.PC1469-6A |
| 3/8 | 1/4 | 884.PC1469-6B |
| 3/8 | 3/8 | 884.PC1469-6C |
| 1/2 | 3/8 | 884.PC1469-8C |
| 1/2 | 1/2 | 884.PC1469-8D |
| 5/8 | 1/2 | 884.PC1469-10D |

* Style may vary due to availability



| Tee Ends Tube Centre Male Pipe | | |
|--------------------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.PC1472-4A |
| 1/4 | 1/4 | 884.PC1472-4B |
| 3/8 | 1/4 | 884.PC1472-6B |
| 3/8 | 3/8 | 884.PC1472-6C |
| 1/2 | 3/8 | 884.PC1472-8C |



| Connector Tube to Male Pipe | | |
|-----------------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 5/32 | 1/8 | 884.PC1468-5/ |
| 1/4 | 1/4 | 884.PC1468-4A |
| | 3/8 | 884.PC1468-4B |
| | 3/8 | 884.PC1468-4C |
| 3/8 | 1/8 | 884.PC1468-6A |
| | 1/4 | 884.PC1468-6B |
| | 3/8 | 884.PC1468-6C |
| | 1/2 | 884.PC1468-6D |
| 1/2 | 1/4 | 884.PC1468-8B |
| | 3/8 | 884.PC1468-8C |
| | 1/2 | 884.PC1468-8D |
| 5/8 | 3/8 | 884.PC1468-10 |
| 3/4 | 1/2 | 884.PC1468-12 |



| Union Tee Tube Each End | |
|-------------------------|--------------|
| Tube | Art. No. |
| 1/4 | 884.PC1464-4 |
| 3/8 | 884.PC1464-6 |
| 1/2 | 884.PC1464-8 |



| Tee Ends Tube and Male Pipe Centre Tube | | |
|---|------|---------------|
| Tube | Pipe | Art. No. |
| 3/8 | 1/4 | 884.PC1471-6B |
| 1/2 | 3/8 | 884.PC1471-8C |



| 90° Elbow Tube to Male Pipe Swivel | | |
|------------------------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.PC1469SW4 |
| 1/4 | 1/4 | 884.1469SW4B |



| Tee Ends Tube Centre Male Pipe Swivel | | |
|---------------------------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/4 | 884.PC1472SW4 |



| Run Tee Swivel | | |
|----------------|------|---------------|
| Tube | Pipe | Art. No. |
| 3/8 | 1/4 | 884.PC1471-6B |



| Tee Ends Tube Centre Female Pipe | | |
|----------------------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.PC1478-4A |
| | 1/4 | 884.PC1478-4B |
| 3/8 | | 884.PC1478-6B |



| Branch Tee Swivel | | |
|-------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.PC147154A |



| Branch Tee Swivel | | |
|-------------------|------|---------------|
| Tube | Pipe | Art. No. |
| 1/4 | 1/8 | 884.PC147254A |



| Run Tee Swivel | | |
|----------------|------|---------------|
| Tube | Pipe | Art. No. |
| 3/8 | 3/8 | 884.PC147156C |

BRASS D.O.T. AIR BRAKE COUPLINGS AND TERMINAL BOLTS



| Sleeve | | |
|----------|------------|--|
| Hose I.D | Art. No. | |
| 3/8 | 884.1490-6 | |
| 1/2 | 884.1490-8 | |



* Style may vary due to availability

| Nut | | |
|----------|------------|--|
| Hose I.D | Art. No. | |
| 3/8 | 884.1491-6 | |
| 1/2 | 884.1491-8 | |



* Style may vary due to availability

| Coupler Assembly (nut, sleeve and coupler) | | | |
|---|------|-------------|--|
| Hose I.D | Pipe | Art. No. | |
| 3/8 | 1/4 | 884.1492-6B | |
| | 3/8 | 884.1492-6C | |
| | 1/2 | 884.1492-6D | |
| 1/2 | 3/8 | 884.1492-8C | |
| | 1/2 | 884.1492-8D | |



* Style may vary due to availability

| Swivel Coupler Assembly (Nut, Sleeve and Coupler) | | | |
|--|------|---------------|--|
| Hose I.D | Pipe | Art. No. | |
| 3/8 | 3/8 | 884.1492SW-6C | |
| 1/2 | | 884.1492SW-8C | |



* Style may vary due to availability

| Hose Splicer | | |
|--------------|-------------|--|
| Hose I.D | Art. No. | |
| 3/8 | 884.1492-6S | |
| 1/2 | 884.1492-8S | |



| Coupler Assembly with Spring Guard | | | |
|---------------------------------------|------|-------------|--|
| Hose I.D | Pipe | Art. No. | |
| 3/8 | 1/4 | 884.1493-6B | |
| | 3/8 | 884.1493-6C | |
| | 1/2 | 884.1493-6D | |
| 1/2 | 3/8 | 884.1493-8C | |
| | 1/2 | 884.1493-8D | |



| Nut with Spring Hose Guard | | |
|-------------------------------|------------|--|
| Hose I.D | Art. No. | |
| 3/8 | 884.1494-6 | |



| Terminal Bolt (brass) | | | |
|-----------------------|----------------|-------------|--|
| Female Pipe | Length (in) | Art. No. | |
| 1/2 x 1/2 | 1 1/4 | 884.1495B-D | |



| Coupler | | | |
|----------|------|--------------|--|
| Hose I.D | Pipe | Art. No. | |
| 3/8 | 3/8 | 884.B1492-6C | |
| | 1/2 | 884.B1492-6D | |
| | 3/8 | 884.B1492-8C | |



| Hose connector for hab assemblies | | | |
|--------------------------------------|------|-------------|--|
| Hose I.D | Pipe | Art. No. | |
| 3/8 | 3/8 | 884.4134-6C | |

BRASS HOSE BARB FITTINGS



| Coupler Hose Barb to Male Pipe | | | |
|-----------------------------------|------|-------------|--|
| Hose I.D | Pipe | Art. No. | |
| 1/8 | 1/8 | 884.125-2A | |
| | 1/8 | 884.125-4A | |
| 1/4 | 1/4 | 884.125-4B | |
| | 3/8 | 884.125-4C | |
| | 1/2 | 884.125-4D | |
| 5/16 | 1/8 | 884.125-5A | |
| | 1/4 | 884.125-5B | |
| 3/8 | 1/4 | 884.125-6B | |
| | 3/8 | 884.125-6C | |
| | 1/2 | 884.125-6D | |
| 1/2 | 1/4 | 884.125-8B | |
| | 3/8 | 884.125-8C | |
| 5/8 | 1/2 | 884.125-8D | |
| | | 884.125-10D | |
| 3/4 | 3/4 | 884.125-12D | |
| | | 884.125-12E | |



| Splicer Round Shoulder | | |
|------------------------|------------|--|
| Hose I.D | Art. No. | |
| 1/4 | 884.129R-4 | |
| 3/8 | 884.129R-6 | |
| 1/2 | 884.129R-8 | |



| Splicer Hose Barb | | |
|-------------------|------------|--|
| Hose I.D | Art. No. | |
| 5/16 | 884.129-5 | |
| 5/8 | 884.129-10 | |
| 3/4 | 884.129-12 | |



| Tee Hose Barb All Ends | | |
|------------------------|-----------|--|
| Hose I.D | Art. No. | |
| 1/4 | 884.123-4 | |
| 5/16 | 884.123-5 | |
| 3/8 | 884.123-6 | |

BRASS FUEL LINE HOSE BARBS



| Coupler Hose Barb to Male Pipe | | |
|--------------------------------|------|--------------------|
| Hose I.D | Pipe | Art. No. |
| 1/4 | 1/4 | 884.325-4B |
| 3/4 | 1/2 | 884.325-12D |

REUSABLE END FITTINGS



- For PTFE Hose

| Female Swivel 45° S.A.E. Flare | | |
|--------------------------------|------|----------------------|
| Hose I.D | Pipe | Art. No. |
| 5/8 | 5/8 | 884.SR428-101 |

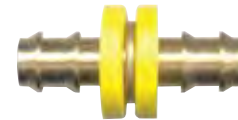
BRASS GRIP-TITE REUSABLE HOSE FITTINGS



| Male Pipe | | |
|-----------|------|-------------------|
| Hose I.D | Pipe | Art. No. |
| 1/4 | 1/8 | 884.725-4A |
| 3/8 | 1/4 | 884.725-6B |
| | 3/8 | 884.725-6C |



| 45° S.A.E. Female Flare Swivel | | |
|--------------------------------|----------|-------------------|
| Tube | Hose I.D | Art. No. |
| 3/8 | 1/4 | 884.728-66 |



| Hose Splicer | |
|--------------|-------------------|
| Hose I.D | Art. No. |
| 1/4 | 884.729-4 |
| 3/8 | 884.729-6 |
| 1/2 | 884.729-8 |
| 5/8 | 884.729-10 |
| 3/4 | 884.729-12 |

BLACK IRON PIPE FITTINGS



| Close Nipple | |
|--------------|--------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-112-A |
| 1/4 | 885.BI-112-B |
| 3/8 | 885.BI-112-C |
| 1/2 | 885.BI-112-D |
| 3/4 | 885.BI-112-E |
| 1 | 885.BI-112-H |



| Coupling | |
|-----------|--------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-103-A |
| 1/4 | 885.BI-103-B |
| 3/8 | 885.BI-103-C |
| 1/2 | 885.BI-103-D |
| 3/4 | 885.BI-103-E |
| 1 | 885.BI-103-H |



| Union | |
|-----------|--------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-104-A |
| 1/4 | 885.BI-104-B |
| 3/8 | 885.BI-104-C |
| 1/2 | 885.BI-104-D |
| 3/4 | 885.BI-104-E |
| 1 | 885.BI-104-H |



| Steel merchant coupling | |
|-------------------------|---------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-103MCA |
| 1/4 | 885.BI-103MCB |
| 3/8 | 885.BI-103MCC |
| 1/2 | 885.BI-103MCD |
| 3/4 | 885.BI-103MCE |
| 1 | 885.BI-103MCH |



| 45° Elbow | |
|-----------|--------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-105-A |
| 1/4 | 885.BI-105-B |
| 3/8 | 885.BI-105-C |
| 1/2 | 885.BI-105-D |
| 3/4 | 885.BI-105-E |
| 1 | 885.BI-105-H |



| 45° STREET Elbow | |
|------------------|---------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-124-A |
| 1/4 | 885.BI-124-B |
| 3/8 | 885.BI-124-C |
| 1/2 | 885.BI-124-D |
| 1 | 885.BI-124-H |
| 1 1/4 | 885.BI-124-HG |



| Tee | |
|-----------|---------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-101-A |
| 1/4 | 885.BI-101-B |
| 3/8 | 885.BI-101-C |
| 1/2 | 885.BI-101-D |
| 3/4 | 885.BI-101-E |
| 1 | 885.BI-101-H |
| 1 1/4 | 885.BI-101-HH |



| Reducing Tee | | |
|--------------|----------|-------|
| Pipe Size | Art. No. | |
| 1 | 2 | 3 |
| 3/4 | 3/4 | 1/2 |
| 1 | 1 | 1/2 |
| 1 | 1 | 3/4 |
| 1 | 3/4 | 3/4 |
| 1 | 3/4 | 1 |
| 1 | 1/2 | 1/2 |
| 1 1/4 | 1 1/4 | 1 1/4 |



| Plug (Square Head) | |
|--------------------|---------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-109-A |
| 1/4 | 885.BI-109-B |
| 3/8 | 885.BI-109-C |
| 1/2 | 885.BI-109-D |
| 3/4 | 885.BI-109-E |
| 1 | 885.BI-109-H |
| 1 1/4 | 885.BI-109-HG |
| 1 1/2 | 885.BI-109-HH |



| Cap | |
|-----------|---------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-108-A |
| 1/4 | 885.BI-108-B |
| 3/8 | 885.BI-108-C |
| 1/2 | 885.BI-108-D |
| 3/4 | 885.BI-108-E |
| 1 | 885.BI-108-H |
| 1 1/4 | 885.BI-108-HG |
| 1 1/2 | 885.BI-108-HH |



| 90° Elbow | |
|-----------|---------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-100-A |
| 1/4 | 885.BI-100-B |
| 3/8 | 885.BI-100-C |
| 1/2 | 885.BI-100-D |
| 3/4 | 885.BI-100-E |
| 1 | 885.BI-100-H |
| 1 1/4 | 885.BI-100-HG |
| 1 1/2 | 885.BI-100-HH |



| Reducing 90° Elbow | |
|--------------------|---------------|
| Pipe Size | Art. No. |
| 1/4 to 1/8 | 885.BI-100-BA |
| 3/8 to 1/4 | 885.BI-100-CB |
| 1/2 to 1/4 | 885.BI-100-DB |
| 1/2 to 3/8 | 885.BI-100-DC |
| 3/4 to 3/8 | 885.BI-100-EC |
| 3/4 to 1/2 | 885.BI-100-ED |
| 1 to 1/2 | 885.BI-100-HD |
| 1 to 3/4 | 885.BI-100-HE |



| 90° Street Elbow | |
|------------------|---------------|
| Pipe Size | Art. No. |
| 1/8 | 885.BI-116-A |
| 1/4 | 885.BI-116-B |
| 3/8 | 885.BI-116-C |
| 1/2 | 885.BI-116-D |
| 3/4 | 885.BI-116-E |
| 1 | 885.BI-116-H |
| 1 1/4 | 885.BI-116-HG |
| 1 1/2 | 885.BI-116-HH |



| Cross | |
|-----------|--------------|
| Pipe Size | Art. No. |
| 1 | 885.BI-102-H |

BLACK IRON PIPE FITTINGS



| Long Nipple | | |
|-------------|------|----------------|
| Length | Pipe | Art. No. |
| 2 | 1/8 | 885.BI-113-A2 |
| 3 | | 885.BI-113-A3 |
| 2 | 1/4 | 885.BI-113-B2 |
| 3 | | 885.BI-113-B3 |
| 2 | 3/8 | 885.BI-113-C2 |
| 3 | | 885.BI-113-C3 |
| 2 | 1/2 | 885.BI-113-D2 |
| 3 | | 885.BI-113-D3 |
| 1-1/2 | 3/4 | 885.BI-113-E11 |
| 2 | | 885.BI-113-E2 |
| 3 | | 885.BI-113-E3 |
| 4 | | 885.BI-113-E4 |
| 2 | 1 | 885.BI-113-H2 |
| 2-1/2 | | 885.BI-113-H21 |
| 3 | | 885.BI-113-H3 |
| 3-1/2 | | 885.BI-113-H31 |
| 4 | | 885.BI-113-H4 |
| 4-1/2 | | 885.BI-113-H41 |
| 5 | | 885.BI-113-H5 |
| 6 | | 885.BI-113-H6 |



| Bushing | |
|----------------|----------------|
| Pipe Size | Art. No. |
| 1/4 to 1/8 | 885.BI-110-BA |
| 3/8 to 1/8 | 885.BI-110-CA |
| 3/8 to 1/4 | 885.BI-110-CB |
| 1/2 to 1/8 | 885.BI-110-DA |
| 1/2 to 1/4 | 885.BI-110-DB |
| 1/2 to 3/8 | 885.BI-110-DC |
| 3/4 to 1/4 | 885.BI-110-EB |
| 3/4 to 3/8 | 885.BI-110-EC |
| 3/4 to 1/2 | 885.BI-110-ED |
| 1 to 1/4 | 885.BI-110-HB |
| 1 to 3/8 | 885.BI-110-HC |
| 1 to 1/2 | 885.BI-110-HD |
| 1 to 3/4 | 885.BI-110-HE |
| 1 1/2 to 1/2 | 885.BI-110-HHD |
| 1 1/2 to 3/4 | 885.BI-110-HHE |
| 1 1/2 to 1 | 885.BI-110-HHF |
| 1 1/2 to 1 1/4 | 885.BI-110-HHG |



| Reducing Coupling | |
|-------------------|---------------|
| Pipe Size | Art. No. |
| 1/4 to 1/8 | 885.BI-119-BA |
| 3/8 to 1/8 | 885.BI-119-CA |
| 3/8 to 1/4 | 885.BI-119-CB |
| 1/2 to 1/4 | 885.BI-119-DB |
| 1/2 to 3/8 | 885.BI-119-DC |
| 3/4 to 1/8 | 885.BI-119-EA |
| 3/4 to 1/4 | 885.BI-119-EB |
| 3/4 to 3/8 | 885.BI-119-EC |
| 3/4 to 1/2 | 885.BI-119-ED |
| 1 to 1/4 | 885.BI-119-HB |
| 1 to 3/8 | 885.BI-119-HC |
| 1 to 1/2 | 885.BI-119-HD |
| 1 to 3/4 | 885.BI-119-HE |

STEEL 37° S.A.E. FLARE ADAPTERS



| Cap Nut | |
|---------|--------------|
| Tube | Art. No. |
| 3/16 | 884.S3756-3 |
| 1/4 | 884.S3756-4 |
| 5/16 | 884.S3756-5 |
| 3/8 | 884.S3756-6 |
| 1/2 | 884.S3756-8 |
| 5/8 | 884.S3756-10 |
| 3/4 | 884.S3756-12 |
| 1 | 884.S3756-16 |



| Tube Plug | |
|-----------|--------------|
| Tube | Art. No. |
| 1/4 | 884.S3758-4 |
| 5/16 | 884.S3758-5 |
| 3/8 | 884.S3758-6 |
| 1/2 | 884.S3758-8 |
| 5/8 | 884.S3758-10 |
| 3/4 | 884.S3758-12 |
| 1 | 884.S3758-16 |
| 1-1/4 | 884.S3758-20 |

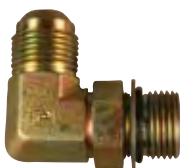


| Union Tube to Tube | | |
|--------------------|------|-------------|
| Tube | Tube | Art. No. |
| 3/8 | 3/8 | 884.S3742-6 |



| 90° Elbow Tube to Male Pipe | | |
|-----------------------------|------|--------------|
| Tube | Pipe | Art. No. |
| 1/2 | 1/2 | 884.S3749-8D |

STEEL S.A.E. O-RING BOSS ADAPTERS BUNA-N O-RING STANDARD



| 90° Elbow Tube to Male O-Ring | | |
|-------------------------------|--------|--------------|
| Tube | O-Ring | Art. No. |
| 1/2 | 3/4-16 | 884.S3649-8 |
| 5/8 | 7/8-14 | 884.S3649-10 |



| 45° Elbow Tube to Male O-Ring | | |
|-------------------------------|--------|-------------|
| Tube | O-Ring | Art. No. |
| 1/2 | 3/4-16 | 884.S3654-8 |

STEEL O-RING FACE SEAL ADAPTERS BUNA-N O-RING STANDARD



| Plug O-Ring Face Seal | |
|-----------------------|-------------|
| ORFS | Art. No. |
| 11/16-16 | 884.S3958-6 |

STEEL S.A.E. PIPE ADAPTERS



* Plating may vary due to availability

| Coupling Female Both Ends | | |
|---------------------------|------|--------------|
| Pipe | Pipe | Art. No. |
| 1/8 | 1/8 | 884.S1003-A |
| 1/4 | 1/4 | 884.S1003-B |
| 3/8 | 3/8 | 884.S1003-C |
| 3/8 | 1/4 | 884.S1003-CB |
| 1/2 | 1/2 | 884.S1003-D |
| 3/4 | 1/2 | 884.S1003-ED |



* Plating may vary due to availability

| Bushing Male to Female | |
|------------------------|--------------|
| Pipe | Art. No. |
| 1/4 x 1/8 | 884.S1010-BA |
| 3/8 x 1/8 | 884.S1010-CA |
| 3/8 x 1/4 | 884.S1010-CB |
| 1/2 x 1/4 | 884.S1010-DB |
| 1/2 x 3/8 | 884.S1010-DC |
| 3/4 x 1/2 | 884.S1010-ED |



| Plug Hex head | |
|---------------|-------------|
| Pipe | Art. No. |
| 1/8 | 884.S1021-A |
| 1/4 | 884.S1021-B |
| 3/8 | 884.S1021-C |



| Hex Nipple Male Both Ends | |
|---------------------------|-------------|
| Pipe | Art. No. |
| 1/8 | 884.S1022-A |
| 1/4 | 884.S1022-B |
| 3/8 | 884.S1022-C |
| 1/2 | 884.S1022-D |
| 3/4 | 884.S1022-E |

STEEL TERMINAL BOLTS



| Terminal Bolt | | |
|---------------|-------------|------------|
| Length | Female Pipe | Art. No. |
| 1-3/8 | 3/8 x 3/8 | 884.1495-C |
| 1-1/2 | 1/4 x 1/4 | 884.1495-L |
| 31/32 | | 884.1495-S |



| Terminal Bolt | | |
|---------------|-------------|-------------|
| Length | Pipe | Art. No. |
| 2 | 1/2M x 3/8F | 884.1496-DC |



| Terminal Bolt | | |
|---------------|-------------|-------------|
| Length | Pipe | Art. No. |
| 2-3/4 | 1/2M x 1/4F | 884.1497-DB |

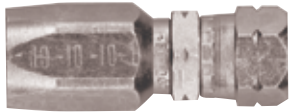


| Swivel Connector | | |
|------------------|------|--------------|
| Swivel | Pipe | Art. No. |
| 3/8 | 3/8 | 884.S1120-CC |
| 1/2 | 1/2 | 884.S1120-DD |

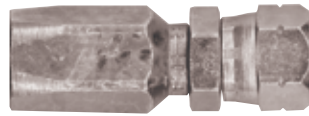


| Grease Whip Coupler | |
|---------------------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.GWC-A |

STEEL REUSABLE HOSE ENDS



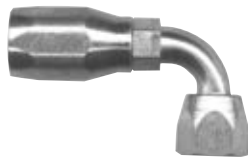
| 37° S.A.E. Female Flare (Swivel) (two piece style) | | |
|--|------|---------------|
| Nominal Hose I.D. | Tube | Art. No. |
| 1/4 | 1/4 | 884.SR538-44 |
| 5/16 | 5/16 | 884.SR538-55 |
| 3/8 | 3/8 | 884.SR538-66 |
| 1/2 | 1/2 | 884.SR538-88 |
| 5/8 | 5/8 | 884.SR538-101 |



| 45° S.A.E. Female Flare (Swivel) | | | |
|----------------------------------|------------------|------|---------------|
| Nominal Hose I.D. | Actual Hose I.D. | Tube | Art. No. |
| 1/4 | 3/16 | 1/4 | 884.SR528-44 |
| 3/8 | 5/16 | 3/8 | 884.SR528-66 |
| 1/2 | 13/32 | 1/2 | 884.SR528-88 |
| 5/8 | 1/2 | 5/8 | 884.SR528-101 |
| 3/4 | 5/8 | 3/4 | 884.SR528-121 |



| 90° Elbow 37° S.A.E. Female Flare (Swivel) | | |
|--|-----------|---------------|
| Tube | Hose I.D. | Art. No. |
| 3/8 | 3/8 | 884.SR539-66 |
| 1/2 | 1/2 | 884.SR539-88 |
| 5/8 | 5/8 | 884.SR539-101 |



| 90° Elbow 45° S.A.E. Female Flare (Swivel) | | |
|--|------|--------------|
| Nominal Hose I.D. | Tube | Art. No. |
| 1/4 | 1/4 | 884.SR541-44 |
| 3/8 | 3/8 | 884.SR541-66 |
| 1/2 | 1/2 | 884.SR541-88 |



| 45° Elbow 37° J.I.C. Female (Swivel) | | |
|--------------------------------------|-----------|---------------|
| Tube | Hose I.D. | Art. No. |
| 5/8 | 5/8 | 884.SR540-101 |

ASSORTMENTS



Art. No. 965.884440

Brass Push-To-Connect Air Brake Assortment Contents (47 Pieces)

Assorted brass push connect fittings (DOT)

PREMIUM TRUCKING BRASS ASSORTMENT



Art. No. 965.8843 - Brass Pieces Only.

Art. No. 965.88431 - Bin Label set, must be ordered separately

Contents: 712 pieces

Note: Requires any two 40 compartment ORSY bins. Must be ordered separately. Recommended Art. No. 966.3 x 2. ORSY agreement for bins must be obtained from customer!

| Description | Art. No. | P. Qty. |
|--|-------------------|---------|
| 103-A Pipe Coupling 1/8P | 884.103E-A | 10 |
| 103-B Pipe Coupling 1/4P | 884.103E-B | 10 |
| 103-C Pipe Coupling 3/8P | 884.103E-C | 5 |
| 103-D Pipe Coupling 1/2P | 884.103E-D | 5 |
| 110-BA Pipe Bushing 1/4Mp X 1/8Fp | 884.110-BA | 25 |
| 110-CA Pipe Bushing 3/8Mp X 1/8Fp | 884.110-CA | 10 |
| 110-CB Pipe Bushing 3/8Mp X 1/4Fp | 884.110-CB | 10 |
| 110-DB Pipe Bushing 1/2Mp X 1/4Fp | 884.110-DB | 5 |
| 110-DC Pipe Bushing 1/2Mp X 3/8Fp | 884.110-DC | 10 |
| 120-BA Pipe Adapter 1/4Fp X 1/8Mp | 884.120-BA | 10 |
| 120-CB Pipe Adapter 3/8Fp X 1/4Mp | 884.120-CB | 10 |
| 120-CC Pipe Adapter 3/8Fp X 3/8Mp | 884.120-CC | 5 |
| 120-DC Pipe Adapter 1/2Fp X 3/8Mp | 884.120-DC | 5 |
| 121-A Pipe Plug Hex Head Cored 1/8P | 884.121-A | 25 |
| 121-B Pipe Plug Hex Head Cored 1/4P | 884.121-B | 25 |
| 121-C Pipe Plug Hex Head Cored 3/8P | 884.121-C | 10 |
| 121-D Pipe Plug Hex Head Cored 1/2P | 884.121-D | 5 |
| 121-E Pipe Plug Hex Head Cored 3/4P | 884.121-E | 5 |
| 122-A Pipe Hex Nipple 1/8P | 884.122-A | 10 |
| 122-B Pipe Hex Nipple 1/4P | 884.122-B | 10 |
| 122-C Pipe Hex Nipple 3/8P | 884.122-C | 5 |
| 122-D Pipe Hex Nipple 1/2P | 884.122-D | 3 |
| 129R-4 Brass Coupler Splicer Rnd 1/4 Hose Id | 884.129R-4 | 5 |

| Description | Art. No. | P. Qty. |
|--|---------------------|---------|
| 129R-6 Brass Coupler Splicer Rnd 3/8 Hose Id | 884.129R-6 | 5 |
| 1460-10 Air Brake Sleeve For Nylon Dot 5/8T | 884.1460-10 | 20 |
| 1460-4 Air Brake Sleeve For Nylon Dot 1/4T | 884.1460-4 | 50 |
| 1460-6 Air Brake Sleeve For Nylon Dot 3/8T | 884.1460-6 | 50 |
| 1460-8 Air Brake Sleeve For Nylon Dot 1/2T | 884.1460-8 | 25 |
| 1461-10 Air Brake Nut For Nylon Dot 5/8T | 884.1461-10 | 10 |
| 1461-4 Air Brake Nut For Nylon Dot 1/4T | 884.1461-4 | 25 |
| 1461-6 Air Brake Nut For Nylon Dot 3/8T | 884.1461-6 | 10 |
| 1461-8 Air Brake Nut For Nylon Dot 1/2T | 884.1461-8 | 15 |
| 1462-10 Air Brake Coupling Dot Nylon 5/8T | 884.1462-10 | 2 |
| 1462-4 Air Brake Coupling Dot Nylon 1/4T | 884.1462-4 | 5 |
| 1462-6 Air Brake Coupling Dot Nylon 3/8T | 884.1462-6 | 5 |
| 1462-8 Air Brake Coupling Dot Nylon 1/2T | 884.1462-8 | 5 |
| 1468-10D Air Brake Connector Nylon 5/8T X 1/2P | 884.1468-10D | 2 |
| 1468-4A Air Brake Connector Nylon 1/4T X 1/8P | 884.1468-4A | 5 |
| 1468-4B Air Brake Connector Nylon 1/4T X 1/4P | 884.1468-4B | 5 |
| 1468-6B Air Brake Connector Nylon 3/8T X 1/4P | 884.1468-6B | 5 |
| 1468-6C Air Brake Connector Nylon 3/8T X 3/8P | 884.1468-6C | 5 |
| 1468-8C Air Brake Connector Nylon 1/2T X 3/8P | 884.1468-8C | 3 |
| 1468-8D Air Brake Connector Nylon 1/2T X 1/2P | 884.1468-8D | 5 |
| 1469-10D Air Brake 90Elbow Nylon 5/8T X 1/2P | 884.1469-10D | 2 |
| 1469-4A Air Brake 90Elbow Nylon 1/4T X 1/8P | 884.1469-4A | 5 |

Art. No. 965.8843 - Brass Pieces Only.

Art. No. 965.88431 - Bin Label set, must be ordered separately

Contents: 717 pieces

Note: Requires any two 40 compartment ORSY bins. Must be ordered separately. Recommended Art. No. 966.3 x 2. ORSY agreement for bins must be obtained from customer!

| Description | Art. No. | P. Qty. |
|--|--------------------|---------|
| 1469-4B air brake 90elbow nylon 1/4t x 1/4p | 884.1469-4B | 5 |
| 1469-6B air brake 90elbow nylon 3/8t x 1/4p | 884.1469-6B | 5 |
| 1469-6C air brake 90elbow nylon 3/8t x 3/8p | 884.1469-6C | 5 |
| 1469-8C air brake 90elbow nylon 1/2t x 3/8p | 884.1469-8C | 3 |
| 1469-8D air brake 90elbow nylon 1/2t x 1/2p | 884.1469-8D | 2 |
| 1471-6C air brake tee nylon 3/8t x 3/8p t to m c= | 884.1471-6C | 2 |
| 1472-6B air brake tee nylon 3/8t x 1/4p t to t c=m | 884.1472-6B | 2 |
| 1472-6C air brake tee nylon 3/8t x 3/8p t to t c=m | 884.1472-6C | 2 |
| 1474-4B air brake 45elbow 1/4t x 1/4p | 884.1474-4B | 5 |
| 1474-6B air brake 45elbow 3/8t x 1/4p | 884.1474-6B | 2 |
| 1474-6C air brake 45elbow 3/8t x 3/8p | 884.1474-6C | 2 |
| 1481-10 Air brake brass insert for nyl 0.440ld | 884.1481-10 | 25 |
| 1481-4 Air brake brass insert for nyl 0.170ld | 884.1481-4 | 50 |
| 1481-6 Air brake brass insert for nyl 0.250ld | 884.1481-6 | 25 |
| 1481-8 Air brake brass insert for nyl 0.375ld | 884.1481-8 | 25 |
| 1492-6C air brake coupler 3/8 hose id x 3/8p | 884.1492-6C | 3 |
| 1492-6S air brake coupler splicer 3/8 hose id | 884.1492-6S | 2 |
| 1492-8C air brake coupler 1/2 hose id x 3/8p | 884.1492-8C | 2 |

| Description | Art. No. | P. Qty. |
|---|----------------------|---------|
| 1492-8S air brake coupler splicer 1/2 hose id | 884.1492-8S | 2 |
| 1493-6C air brake coupler w spring 3/8 hid x 3/8p | 884.1493-6C | 3 |
| 1493-8C air brake coupler w spring 1/2 hid x 3/8p | 884.1493-8C | 3 |
| 1495-C air brake terminal bolt 3/8fpt x 1-3/8l | 884.1495-C | 3 |
| 1495-L air brake terminal bolt 1/4fpt x 1-1/2l | 884.1495-L | 3 |
| 2120-B shut off cock 1/4p f to m | 884.2120-B | 2 |
| 2120-C shut off cock 3/8p f to m | 884.2120-C | 2 |
| 862-2-1/2 Air shift coupling 5/32t | 884.862-2-1/2 | 2 |
| 868-2-1/2-1 Air shift connector 5/32t x 1/16p | 884.868-2-1/2 | 2 |
| X115-a extruded pipe street 90elbow 1/8p | 884.X115-A | 10 |
| X115-b extruded pipe street 90elbow 1/4p | 884.X115-B | 5 |
| X115-c extruded pipe street 90elbow 3/8p | 884.X115-C | 3 |
| X115-d extruded pipe street 90elbow 1/2p | 884.X115-D | 3 |
| X124-a extruded pipe street 45elbow 1/8p | 884.X124-A | 5 |
| X124-b extruded pipe street 45elbow 1/4p | 884.X124-B | 5 |
| X124-c extruded pipe street 45elbow 3/8p | 884.X124-C | 5 |
| X124-d extruded pipe street 45elbow 1/2p | 884.X124-D | 5 |

AIR BRAKE FITTING ASSORTMENT



| Description | Art. No. | Qty. |
|--------------------------------|-------------|------|
| Air Brake Sleeve 1/4" | 884.1460-4 | 25 |
| Air Brake Sleeve 3/8" | 884.1460-6 | 25 |
| Air Brake Sleeve 1/2" | 884.1460-8 | 25 |
| Air Brake Sleeve 5/8" | 884.1460-10 | 25 |
| Air Brake Nut 1/4" | 884.1461-4 | 10 |
| Air Brake Nut 3/8" | 884.1461-6 | 10 |
| Air Brake Nut 1/2" | 884.1461-8 | 10 |
| Air Brake Nut 5/8" | 884.1461-10 | 5 |
| Air Brake Union 1/4" | 884.1462-4 | 5 |
| Air Brake Union 3/8" | 884.1462-6 | 5 |
| Air Brake Union 1/2" | 884.1462-8 | 5 |
| Air Brake Union 5/8" | 884.1462-10 | 5 |
| 1/4" Tube 1/4" Male Pipe Conn. | 884.1468-4B | 5 |
| 1/4" Tube 3/8" Male Pipe Conn. | 884.1468-4C | 5 |
| 3/8" Tube 1/4" Male Pipe Conn. | 884.1468-6B | 5 |

Art. No. 965.8841

Contents: 337 pieces

36 different sizes of Air brake fittings.
Comes complete with 36-compartment bin 966.1

| Description | Art. No. | Qty. |
|---------------------------------------|--------------|------|
| 3/8" Tube 3/8" Male Pipe Conn. | 884.1468-6C | 5 |
| 3/8" Tube 1/2" Male Pipe Conn. | 884.1468-6D | 5 |
| 1/2" Tube 1/4" Male Pipe Conn. | 884.1468-8B | 5 |
| 1/2" Tube 3/8" Male Pipe Conn. | 884.1468-8C | 5 |
| 5/8" Tube 1/2" Male Pipe Conn. | 884.1468-10D | 5 |
| 1/4" Tube To 1/8" Male Pipe 45° Elbow | 884.1474-4A | 2 |
| 3/8" Tube To 1/4" Male Pipe 45° Elbow | 884.1474-6B | 2 |
| 3/8" Tube To 3/8" Male Pipe 45° Elbow | 884.1474-6C | 2 |
| 1/2" Tube To 3/8" Male Pipe 45° Elbow | 884.1474-8C | 2 |
| 1/4" Tube 3/8" Male Pipe 90° Elbow | 884.1469-4C | 5 |
| 3/8" Tube 1/8" Male Pipe 90° Elbow | 884.1469-6A | 5 |
| 3/8" Tube 3/8" Male Pipe 90° Elbow | 884.1469-6C | 5 |
| 3/8" Tube 1/2" Male Pipe 90° Elbow | 884.1469-6D | 3 |
| 1/2" Tube 1/2" Male Pipe 90° Elbow | 884.1469-8D | 5 |
| 5/8" Tube 3/8" Male Pipe 90° Elbow | 884.1469-10C | 5 |
| Tube 3 Way Tree 1/4" | 884.1464-4 | 2 |
| Tube 3 Way Tree 3/8" | 884.1464-6 | 2 |
| Brass Insert 1/4" | 884.1481-4 | 25 |
| Brass Insert 3/8" | 884.1481-6 | 25 |
| Brass Insert 1/2" | 884.1481-8 | 25 |
| Brass Insert 5/8" | 884.1481-10 | 25 |

BRAKE PIPE FITTING ASSORTMENT



| Size | Description | Art. No. | Qty |
|------|--------------------------------|------------|-----|
| 1/8" | Pipe Adapter | 884.120-AA | 5 |
| 1/4" | Pipe Adapter | 884.120-BB | 5 |
| 3/8" | Pipe Adapter | 884.120-CC | 5 |
| 1/8" | Extruded Pipe Street 45° Elbow | 884.X124-A | 2 |
| 1/4" | Extruded Pipe Street 45° Elbow | 884.X124-B | 2 |
| 3/8" | Extruded Pipe Street 45° Elbow | 884.X124-C | 5 |
| 1/2" | Extruded Pipe Street 45° Elbow | 884.X124-D | 2 |
| 1/8" | Pipe Coupling FPT | 884.103E-A | 5 |
| 1/4" | Pipe Coupling FPT | 884.103E-B | 5 |
| 3/8" | Pipe Coupling FPT | 884.103E-C | 5 |
| 1/2" | Pipe Coupling FPT | 884.103E-D | 2 |

Art. No. 965.8842

Contains: 173 pieces contained in Bin Art. No. 966.1

- An entry level brass fitting assortment.

| Size | Description | Art. No. | Qty |
|-------------|--------------------------------|------------|-----|
| 1/4" - 1/8" | Pipe Bushing M/F | 884.110-BA | 10 |
| 3/8" - 1/8" | Pipe Bushing M/F | 884.110-CA | 5 |
| 3/8" - 1/4" | Pipe Bushing M/F | 884.110-CB | 5 |
| 1/2" - 1/8" | Pipe Bushing M/F | 884.110-DA | 5 |
| 1/2" - 1/4" | Pipe Bushing M/F | 884.110-DB | 5 |
| 1/2" - 3/8" | Pipe Bushing M/F | 884.110-DC | 2 |
| 1/8" | Extruded Pipe Street 90° Elbow | 884.X115-A | 5 |
| 1/4" | Extruded Pipe Street 90° Elbow | 884.X115-B | 5 |
| 3/8" | Extruded Pipe Street 90° Elbow | 884.X115-C | 5 |
| 1/2" | Extruded Pipe Street 90° Elbow | 884.X115-D | 2 |
| 1/8" | Pipe Close Nipple | 884.112-A | 10 |
| 1/4" | Pipe Close Nipple | 884.112-B | 10 |
| 3/8" | Pipe Close Nipple | 884.112-C | 5 |
| 1/2" | Pipe Close Nipple | 884.112-D | 2 |
| 1/8" | Pipe Hex Nipple | 884.122-A | 10 |
| 1/4" | Pipe Hex Nipple | 884.122-B | 10 |
| 3/8" | Pipe Hex Nipple | 884.122-C | 5 |
| 1/2" | Pipe Hex Nipple | 884.122-D | 2 |
| 1/8" | Pipe Plug Hex Head Cored | 884.121-A | 10 |
| 1/4" | Pipe Plug Hex Head Cored | 884.121-B | 10 |
| 3/8" | Pipe Plug Hex Head Cored | 884.121-C | 5 |
| 1/2" | Pipe Plug Hex Head Cored | 884.121-D | 2 |

AIR BRAKE TUBING



S.A.E. - J844D Nylon Air Brake Tubing

- Designed for use with truck, trailer and other mobile air brake and auxiliary systems
- Lightweight, flexible
- UV stabilized
- Resistant to abrasion, oil, grease and road salt
- Temperature rating: -40 °C to +93 °C (-40 °F to +200 °F)
- Meets D.O.T. F.M.V.S.S. 106
- 1/8" O.D. does not comply with D.O.T. F.M.V.S.S. 106

Note: S.A.E. does not recognize 5/32" O.D. for air brake systems

| Colour | Tube OD | Wall Thickness | Working Pressure (PSI) | Roll Length | Art. No. |
|--------|---------------|----------------|------------------------|---------------|---------------|
| Black | 1/8" | 0.023" | 250 | 100' | 884.NT10002BK |
| Black | 5/32" | 0.036" | 250 | | 884.NT10003BK |
| Black | 1/4" | 0.040" | 300 | | 884.NT10004BK |
| Blue | | | | | 884.NT10004BL |
| Green | | | | | 884.NT10004GR |
| Orange | | | | | 884.NT10004OR |
| Red | | | | | 884.NT10004RD |
| Yellow | | | | | 884.NT10004YE |
| Black | 3/8" | 0.062" | 350 | | 884.NT10006BK |
| Blue | | | | | 884.NT10006BL |
| Green | | | | | 884.NT10006GR |
| Orange | | | | | 884.NT10006OR |
| Red | | | | 884.NT10006RD | |
| Yellow | | | | 884.NT10006YE | |
| Black | 1/2" | 0.062" | 240 | 884.NT10008BK | |
| Blue | | | | 884.NT10008BL | |
| Green | | | | 884.NT10008GR | |
| Orange | | | | 884.NT10008OR | |
| Red | | | | 884.NT10008RD | |
| Black | | | | 5/8" | 0.092" |
| Blue | 884.NT10010BL | | | | |
| Green | 884.NT10010GR | | | | |
| Orange | 884.NT10010OR | | | | |

HOSES



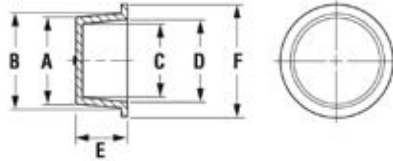
| S.A.E. - J1402 Rubber Air Brake Hose | | | | |
|--------------------------------------|--------------|--------------|-------------------|---------------|
| Inside Dia. | Outside Dia. | W.P.(P.S.I.) | Reel Length (ft.) | Art. No. |
| 3/8 | 3/4 | 225 | 50 | 884.HAB-6-50 |
| | | | 250 | 884.HAB-6-250 |
| | | | 50 | 884.HAB-8-50 |
| | | | 250 | 884.HAB-8-250 |
| 1/2 | 7/8 | | | |

| Truck Silicone Coolant Hose | | | | |
|-----------------------------|-----------|---------------|--------------|--------|
| Actual I.D. | Hose O.D. | W.P. (P.S.I.) | Art. No. | Length |
| 2-1/2" | 2.90" | 60 | 884.CHS-40-4 | 3 ft. |
| 2-3/4" | 3.15" | | 884.CHS-44-4 | 3 ft. |
| 3" | 3.40" | 55 | 884.CHS-48-4 | 3 ft. |



| S.A.E. 100R5 Hydraulic HOSE | | | | | | |
|-----------------------------|------------------------|--------------------|---------------------------|-----------------------|---------------|--------|
| Actual I.D. (IN.) | Working Press (P.S.I.) | Min Burst (P.S.I.) | Min. Bend Radius (P.S.I.) | Approx. Wgt./Ft (LBS) | Art. No. | Length |
| 3/16 | 3,000 | 12,000 | 3.00 | .16 | 884.HR5-4-CUT | 25 ft. |
| 5/16 | 2,250 | 9,000 | 4.00 | .22 | 884.HR5-6-CUT | 25 ft. |
| 13/32 | 2,000 | 8,000 | 4.62 | .27 | 884.HR5-8-CUT | 25 ft. |
| 1/2 | 1,750 | 7,000 | 5.50 | .34 | 884.HR5-10-RE | 25 ft. |
| 5/8 | 1,500 | 6,000 | 6.50 | .42 | 884.HR5-12-RE | 25 ft. |

CAPS AND PLUGS - TAPERED



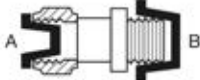
- For use with any brass or black iron pipe, engine / transmission work, or with hydraulic fittings
- Provides excellent protection against damage, dirt or moisture that occurs during manufacturing, storage or shipping
- Recommended for all threaded (Unified and NPT) and non-threaded internal and external fittings
- Tapered body provides firm friction fit when used as a cap or plug
- Secure fit, easy removal
- All caps/plugs are unthreaded

| Technical Information | |
|-----------------------|--------------------------|
| Material | Low-density polyethylene |
| Colour | Orange |
| Applicable Spec | MIL-C-5501/7 |

Note: When used as a Plug: 'B' dimension should be at least .020" larger than diameter to be plugged. Larger diameters may require more interference. When used as a Cap: 'C' dimension should be at least .020" less than diameter to be capped. Larger diameters may require more interference.

| Plug | | | Cap | | | Dimensions | | | | | | | | | | | | Art. No. | P. Qty. |
|--------------|----------|----------|--------------|----------|----------|------------|-------|-------|-------|--------|-------|-------|-------|-----|-------|------|-------|--------------------|---------|
| Thread Sizes | | | Thread Sizes | | | To Plug | | | | To Cap | | | | E | | F | | | |
| NPT/BSP | Standard | Metric | NPT/BSP | Standard | Metric | A | | B | | C | | D | | E | | F | | | |
| | | | | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | | |
| - | 5/16 | M8x1 | - | - | M5 | .239 | 6.07 | .303 | 7.7 | .175 | 4.45 | .239 | 6.07 | .38 | 9.65 | .47 | 11.94 | 823.6921236 | 100 |
| 1/8 | - | - | - | - | - | .331 | 8.41 | .397 | 10.08 | .267 | 6.78 | .333 | 8.46 | .38 | 9.65 | .56 | 14.22 | 823.6921229 | |
| - | - | M12x1.25 | - | 3/8 | - | .392 | 9.96 | .459 | 11.66 | .328 | 8.33 | .395 | 10.03 | .41 | 10.41 | .59 | 14.99 | 823.6921239 | |
| 1/4 | 1/2 | M14 | 1/8 | - | M10x1.25 | .422 | 10.72 | .486 | 12.34 | .358 | 9.09 | .422 | 10.72 | .41 | 10.41 | .62 | 15.75 | 508.181 | |
| - | - | M14x1.5 | - | 7/16 | - | .448 | 11.38 | .512 | 13.00 | .384 | 9.75 | .448 | 11.38 | .41 | 10.41 | .66 | 16.76 | 823.6921240 | |
| - | - | M16 | - | - | M12x1.25 | .500 | 12.70 | .568 | 14.43 | .436 | 11.07 | .504 | 12.80 | .47 | 11.94 | .72 | 18.29 | 823.6921892 | |
| 3/8 | - | M18 | - | 9/16 | - | .551 | 14.00 | .633 | 16.08 | .487 | 12.37 | .569 | 14.45 | .50 | 12.70 | .78 | 19.81 | 823.6921188 | |
| - | - | M18x1.5 | - | 5/8 | M14x1.5 | .580 | 14.73 | .668 | 16.97 | .518 | 13.16 | .606 | 15.39 | .53 | 13.46 | .84 | 21.34 | 823.6921242 | |
| - | - | - | - | - | - | .610 | 15.49 | .695 | 17.65 | .549 | 13.94 | .634 | 16.10 | .53 | 13.46 | .84 | 21.34 | 823.6921422 | |
| - | 3/4 | M20 | - | - | - | .642 | 16.31 | .729 | 18.52 | .578 | 14.68 | .665 | 16.89 | .50 | 12.70 | .88 | 22.35 | 823.6921243 | |
| 1/2 | - | M22 | - | - | - | .691 | 17.55 | .787 | 19.99 | .627 | 15.93 | .723 | 18.36 | .59 | 14.99 | .94 | 23.88 | 823.6921203 | 50 |
| - | - | M22x1.5 | - | 3/4 | - | .727 | 18.47 | .825 | 20.96 | .663 | 16.84 | .761 | 19.33 | .59 | 14.99 | 1.00 | 25.40 | 823.6921245 | |
| - | 7/8 | M24 | - | - | M18x1.5 | .752 | 19.10 | .849 | 21.56 | .688 | 17.48 | .785 | 19.94 | .59 | 14.99 | 1.00 | 25.40 | 823.6921246 | |
| - | 15/16 | M24x2 | 1/2 | - | - | .803 | 20.40 | .912 | 23.16 | .739 | 18.77 | .848 | 21.54 | .66 | 16.76 | 1.06 | 26.92 | 823.6921204 | |
| 3/4 | - | - | - | - | - | .869 | 22.07 | .973 | 24.71 | .805 | 20.45 | .909 | 23.09 | .66 | 16.76 | 1.13 | 28.70 | 823.6921922 | |
| - | 1-1/16 | M27x2 | - | - | M22x1.5 | .915 | 23.24 | 1.040 | 26.42 | .855 | 21.72 | .980 | 24.89 | .72 | 18.29 | 1.16 | 29.46 | 823.6921248 | 25 |
| - | - | - | 3/4 | - | M24x2 | .967 | 24.56 | 1.092 | 27.74 | .903 | 22.94 | 1.028 | 26.11 | .78 | 19.81 | 1.25 | 31.75 | 823.6921249 | |
| - | - | M30x2 | - | 1-1/16 | - | .997 | 25.32 | 1.144 | 29.06 | .933 | 23.70 | 1.080 | 27.43 | .78 | 19.81 | 1.31 | 33.27 | 823.6921153 | |
| 1 | 1-1/4 | M33 | - | - | M27x2 | 1.093 | 27.76 | 1.219 | 30.96 | 1.029 | 26.14 | 1.155 | 29.34 | .78 | 19.81 | 1.41 | 35.81 | 823.6921193 | 10 |
| - | 1-5/16 | M33x2 | - | - | - | 1.179 | 29.95 | 1.286 | 32.66 | 1.115 | 28.32 | 1.222 | 31.04 | .75 | 19.05 | 1.44 | 36.58 | 823.6921250 | |
| 1-1/4 | - | - | - | - | M36x3 | 1.451 | 36.86 | 1.601 | 40.67 | 1.387 | 35.23 | 1.537 | 39.04 | .75 | 19.05 | 1.75 | 44.45 | 823.6921254 | |
| 1-1/2 | 1-7/8 | - | - | - | - | 1.720 | 43.69 | 1.850 | 46.99 | 1.664 | 42.27 | 1.794 | 45.57 | .75 | 19.05 | 2.03 | 51.56 | 823.6921972 | |

Application Guide



Recommended closures for tube fittings and hydraulic fittings.



Recommended closures for threaded external and internal N.P.T. fittings. Based on average tapped hole fit.



Recommended closures for unthreaded standard weight pipe.

| As Plugs (A) | As Caps (B) | Dash No. | Tubing O.D. | Thread |
|--------------------|--------------------|----------|-------------|-----------|
| 823.6921236 | - | -2 | 1/8 | 5/16-24 |
| - | 823.6921239 | -3 | 3/16 | 3/8-24 |
| 508.181 | - | -5 | 5/16 | 1/2-20 |
| - | 823.6921188 | -6 | 3/8 | 9/16-18 |
| - | 823.6921242 | - | 3/8 | 5/8-18 |
| 823.6921243 | 823.6921245 | -8 | 1/2 | 3/4-16 |
| 823.6921246 | - | -10 | 5/8 | 7/8-14 |
| 823.6921248 | 823.6921153 | -12 | 3/4 | 1-1/16-12 |
| 823.6921250 | - | -16 | 1 | 1-5/16-12 |

| As Plugs (A) | As Caps (B) | Size |
|--------------------|--------------------|-------|
| 823.6921229 | - | 1/8 |
| 508.181 | - | 1/4 |
| 823.6921203 | 823.6921204 | 1/2 |
| 823.6921922 | 823.6921153 | 3/4 |
| 823.6921193 | - | 1 |
| 823.6921254 | - | 1-1/4 |

| As Plugs | Size |
|--------------------|------|
| 823.6921236 | 1/8 |
| 823.6921229 | 1/4 |
| 823.6921242 | 1/2 |
| 823.6921246 | 1/2 |
| 823.6921249 | 1 |

PLASTIC HOLE PLUGS



Art. No. 507.001

For up to 3/32" metal thickness

CAPS AND PLUGS ASSORTMENT



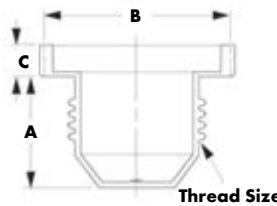
Art. No. 965.823

| Description | Art. No. | Qty |
|------------------------------------|-------------|-----|
| Plug 5/16" M8x1.0 Cap 5mm orange | 823.6921236 | 25 |
| Plug M14x1.50 Cap 7/16" orange | 823.6921240 | 25 |
| Plug M18x1.5 Cap 5/8" M14x1.5 | 823.6921242 | 25 |
| Plug 1/2" npt m22 orange | 823.6921203 | 25 |
| Plug 1/8" npt orange | 823.6921229 | 25 |
| Plug M16 cap m12x1.25 orange | 823.6921892 | 25 |
| Plug M22x1.5 Cap 3/4" orange | 823.6921245 | 10 |
| Plug M12x1.25 Cap 3/8" orange | 823.6921239 | 25 |
| Plug 3/8" npt M18 cap 9/16" orange | 823.6921188 | 25 |
| Plug 3/4" M20 orange | 823.6921243 | 25 |
| Plug 7/8" M24 cap M18x1.50 | 823.6921246 | 10 |

Contents: 295 pieces

- 13 of our most popular caps/plugs in both metric and standard sizes.
- For use with any brass or black iron pipe and fittings, hydraulic fittings, or engine/transmission work.

FLARED FITTING PLUGS



Features:

- Designed to protect flared fittings as well as 37° flared fittings without gasket.
- Engineered with knurled head for ease of application.
- Will meet low-pressure testing requirements.
- High-Density Polyethylene
- Colour: Red

| To plug thread size | To plug tubing Size | To plug S.A.E./JIC fitting | Dimensions | | | Art. No. | Pack Qty. |
|---------------------|---------------------|----------------------------|------------------|------------------|-----------------|------------|-----------|
| | | | A | B | C | | |
| 7/16-20 | 1/4 | 4 | 0.50" (12.70 mm) | 0.72" (18.29 mm) | 0.22" (5.59 mm) | 823.69216 | 50 |
| 9/16-18 | 3/8 | 6 | 0.53" (13.46 mm) | 0.88" (22.35 mm) | 0.28" (7.11 mm) | 823.692110 | |
| 3/4-16 | 1/2 | 8 | 0.75" (19.05 mm) | 1.06" (26.92 mm) | 0.28" (7.11 mm) | 823.692112 | 25 |
| 7/8-14 | 5/8 | 10 | 0.84" (21.34 mm) | 1.25" (31.75 mm) | 0.28" (7.11 mm) | 823.692114 | |
| 1-1/16-12 | 3/4 | 12 | 0.86" (21.84 mm) | 1.41" (35.81 mm) | 0.25" (6.35 mm) | 823.692116 | |
| 1-5/16-12 | 1 | 16 | 0.91" (23.11 mm) | 1.75" (44.45 mm) | 0.25" (6.35 mm) | 823.692120 | |
| 1-5/8-12 | 1-1/4 | - | 0.94" (23.88 mm) | 2.22" (56.39 mm) | 0.34" (8.64 mm) | 823.692124 | |

LIQUID FILLED PRESSURE GAUGE



| 1/4 M.P.T Center Back Mount | | | | |
|-----------------------------|---------|----------|---------------|-------|
| Range (P.S.I) | | Dial Dia | Art. No. | P.Qty |
| (kPa) | | | | |
| 0-160 | 0-1100 | 2.5" | 884.PG-160CG2 | 1 |
| 0-5000 | 0-35000 | | 884.PG5000 | |

SPECIALTY VALVES



| Forged Body Hose to Male Pipe | | | |
|-------------------------------|----------|-----------|--------------|
| P.S.I | Hose I.D | Male Pipe | Art. No. |
| 200 | 3/8 | 3/8 | 884.1139-6C |
| | 5/8 | | 884.1139-10C |
| | 3/4 | 1/2 | 884.1139-12D |



| Air Tank Drain Valve | |
|----------------------|--------------|
| Pipe | Art. No. |
| 1/4 | 884.14DV-60B |

PLUMBING BALL VALVES



| Forged Brass Ball Valves Full Port, Pipe- Female to Female | | | |
|--|-------|------|--------------|
| W.S.P | W.O.G | Pipe | Art. No. |
| 150 | 600 | 1/4 | 884.BV2103-B |
| | | 3/8 | 884.BV2103-C |
| | | 1/2 | 884.BV2103-D |
| | | 1 | 884.BV2103-H |



| Cast Brass Ball Valves- Full Port, Pipe - Female to Female | | |
|--|------|--------------|
| W.O.G | Pipe | Art. No. |
| 600 | 1/2 | 884.BV4103-D |
| 600 | 3/4 | 884.BV4103-E |
| 600 | 1 | 884.BV4103-H |

BRASS DRAIN COCKS



| Back Seating Type | |
|-------------------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.240-A |
| 1/4 | 884.240-B |
| 3/8 | 884.240-C |
| 1/2 | 884.240-D |



| Ground Key Plug Type Lever Handle | |
|-----------------------------------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.241-A |
| 1/4 | 884.241-B |



| Needle Seat One Piece Plug and Handle | |
|---------------------------------------|-----------|
| Pipe | Art. No. |
| 1/8 | 884.242-A |
| 1/4 | 884.242-B |



| Needle Seat | |
|-------------|-----------|
| Pipe | Art. No. |
| 1/4 | 884.243-B |



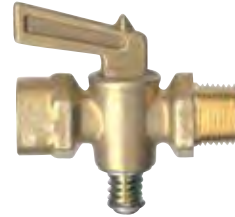
| Heavy Duty Ground Key Plug Type Tee Handle | |
|--|------------|
| Pipe | Art. No. |
| 1/4 | 884.T241-B |

BRASS SPRING BOTTOM SHUT-OFF COCKS

Not Recommended for Use with Liquids
(Temperature: -40 °C / -40 °F to 121 °C / 250 °F)



| Pipe Female to Female | | |
|-----------------------|------|-------------------|
| P.S.I | Pipe | Art. No. |
| 30 | 1/4 | 884.2103-B |



| Pipe Female to Male | | |
|---------------------|------|-------------------|
| P.S.I | Pipe | Art. No. |
| 30 | 1/8 | 884.2120-A |
| | 1/4 | 884.2120-B |
| | 3/8 | 884.2120-C |

SPECIALTY CLAMPS & ACCESSORIES



| Hose Spacers | |
|--------------|----------------------|
| Hose I.D | Art. No. |
| 3/8 | 884.HAB-HAN-6 |
| 1/2 | 884.HAB-HAN-8 |



| Hose support spring | |
|---------------------|----------------------|
| Length (in) | Art. No. |
| 1.3 | 884.HAB-SPRIN |

PNEUMATIC COUPLINGS



| Industrial Interchange Manual Coupler | | | |
|---------------------------------------|---------|---------------|---------------|
| Body Size | Pipe | W.P. (P.S.I.) | Art. No. |
| 1/4 | 1/4 FPT | 300 | 884.INDMC44F |
| 3/8 | 1/4 MPT | | 884.QDINDMC64 |
| 3/8 | 3/8 FPT | | 884.QD81DMC44 |
| 1/2 | 1/2 FPT | | 884.QDINDMC88 |



| Industrial Interchange Automatic Coupler | | | |
|--|---------|---------------|---------------|
| Body Size | Pipe | W.P. (P.S.I.) | Art. No. |
| 1/4 | 1/4 FPT | 300 | 884.QDINDAC44 |
| 3/8 | 1/4 FPT | | 884.QDINDAC64 |
| 1/4 | 1/4 MPT | | 884.INDAC4-4M |
| 3/8 | 1/4 MPT | | 884.QDINDA64M |
| 3/8 | 3/8 MPT | | 884.QDINDA66M |



| Industrial Interchange Nipple Manual and Automatic | | | |
|--|---------|---------------|---------------|
| Body Size | Pipe | W.P. (P.S.I.) | Art. No. |
| 1/4 | 1/4 FPT | 300 | 884.QDINDN44F |
| 3/8 | 1/4 FPT | | 884.QDINDN64F |
| 3/8 | 3/8 FPT | | 884.QDINDN66F |
| 1/2 | 1/2 FPT | | 884.QDINDN88F |
| 1/4 | 1/4 MPT | | 884.QDINDN44M |
| 3/8 | 1/4 MPT | | 884.QDINDN64M |
| 3/8 | 3/8 MPT | | 884.QDINDN66M |
| 1/2 | 1/2 MPT | | 884.QDINDN88M |



| Industrial Interchange Automatic Coupler | | |
|--|---------|-------------|
| Body Size | Pipe | Art. No. |
| 1/4 | 1/4 FPT | 884.2414704 |



| Industrial Interchange Automatic Nipple | | |
|---|---------|-------------|
| Body Size | Pipe | Art. No. |
| 1/4 | 1/4 MPT | 884.2424604 |



| Industrial Interchange Automatic Set (coupler & nipple) Quick | | |
|---|-----------------|-------------|
| Body Size | Pipe | Art. No. |
| 1/4 | 1/4 (FPT & MPT) | 884.2414710 |



| ARO210/ARO310 Series Coupling | | | |
|-------------------------------|---------|---------------|-------------|
| Body Size | Pipe | W.P. (P.S.I.) | Art. No. |
| 1/4 | 1/4 FPT | 250 | 884.QDAROC4 |



| Tru-Flate Interchange (automatic standard) Coupling | | | |
|---|---------|---------------|--|
| Body Size | Pipe | Art. No. | |
| 1/4 | 1/4 FPT | 884.QDSF36C44 | |
| 3/8 | 3/8 FPT | 884.QDTFMC66F | |

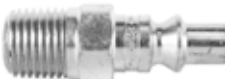


| Lincoln Interchange Manual Coupling | | |
|-------------------------------------|---------|---------------|
| Body Size | Pipe | Art. No. |
| 1/4 | 1/4 FPT | 884.QDLINMC44 |

A.



B.



A.

B.

| ARO210/ARO310 series automatic Nipple | | | |
|---------------------------------------|---------|---------------|---------------|
| Body Size | Pipe | W.P. (P.S.I.) | Art. No. |
| 1/4 | 1/4 FPT | 250 | 884.QDARON44F |
| 1/4 | 1/4 MPT | | 884.QDARON44M |



| Tru-Flate Interchange (automatic standard) Nipples | | |
|--|---------|--------------|
| Body Size | Pipe | Art. No. |
| 3/8 | 1/4 MPT | 884.QDTFN64M |

A.



B.



A.

B.

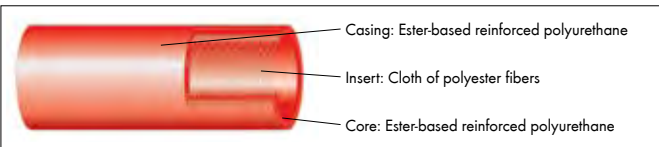
| Lincoln Interchange Manual Nipple | | |
|-----------------------------------|---------|---------------|
| Body Size | Pipe | Art. No. |
| 1/4 | 1/4 FPT | 884.QDLINN44F |
| 1/4 | 1/4 MPT | 884.QDLINN44M |

PU COMPRESSED AIR HOSES



Features:

- Compressed-air hoses of polyurethane (PU) are considerably lighter, more flexible and more resistant to kinking than PVC hoses. Increased working comfort and broader range of applications.
- Smooth inside hose surfaces prevent air resistance and enable a high air flow rate. No pressure drop and maximum utilization of output of consumers.
- High resistance to abrasion, sturdy cloth lining and outstanding resistance to oil, gasoline, dirt and UV. Temperature range: -20°C to +60°C. Reduces costs and has a service life up to 10x longer than that of PVC hoses.
- Maximum operating pressure of 232 psi. Up to four times higher safety factor for user.



| Inner hose diameter | Outer hose diameter | Length of hose | Art. No. | Qty. |
|---------------------|---------------------|----------------|-------------------|------|
| 8.0 mm | 12.0 mm | 10.0 m | 883.942811 | 1 |
| | | 25.0 m | 883.942812 | |
| 11.0 mm | 16.0 mm | 10.0 m | 883.942115 | |
| | | 25.0 m | 883.942116 | |

PREMIUM AIR HOSE



- Features EPDM cover and tube with high tensile spiral reinforcement
- Temperature: -20 °F to +200 °F (-29 °C to +93 °C)
- Bursting pressure: 600 psi

Applications:

Best suited for applications requiring maximum flexibility or a lighter weight rubber hose

| Art. No. | Inside Dia. | Outside Dia. | W.P.P.S.I. | Reel Length (ft.) |
|-----------------|-------------|--------------|------------|-------------------|
| 884.1000 | 3/8" | .669 | 200 | 50 |
| 884.1100 | 1/2" | .881 | | |

AIR HOSE WITH ENDS



- Features EPDM cover and tube with high tensile spiral reinforcement
- Temperature: -20 °F to +200 °F (-29 °C to +93 °C)
- Bursting pressure: 600 psi

Applications:

Best suited for applications requiring maximum flexibility or a lighter weight rubber hose

| Art. No. | Inside Dia. | Outside Dia. | W.P.P.S.I. | Reel Length (ft.) |
|------------------|-------------|--------------|------------|-------------------|
| 884.10011 | 3/8" | .669 | 200 | 25 |
| 884.10012 | | | | 50 |

HIGHFLEX PREMIUM AIR HOSE WITH 1/4" MPT CRIMPED ENDS



- Multi purpose hose
- More flexible than most rubber hoses even at extremely low temperatures
- Temperature: -40 °F to 150 °F (-40 °C to 65 °C)

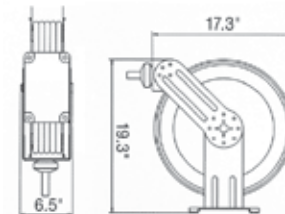
Applications:

Ideal for pneumatic hand tool and shop air applications due to its light weight and relatively high pressure rating.

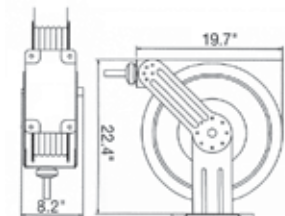
| Art. No. | Inside Dia. | Outside Dia. | W.P.P.S.I | Reel Length (ft.) |
|-------------|-------------|--------------|-----------|-------------------|
| 884.10021 * | 3/8" | .625 | 300 | 50 |
| 884.10025 | | | | 25 |
| 884.10030 | | | | 50 |

* Does not come with ends

HOSE REEL HEAVY DUTY WITH FLEX HYBRID HOSE



Hose Reel HD 3/8"



Hose Reel HD 1/2"

Features:

- Heavy duty steel construction
- Heavy ribbed steel plate
- Epoxy powder coated
- Fully enclosed and lubricated spring
- Four direction, non-snap rollers

Benefits:

- Very durable with strong support
- Resists corrosion
- Wall, ceiling or floor mounting possible
- Superior quality rollers reduce hose wear

| Diameter I.D. | Length | Art. No. | P. Qty |
|---------------|---------|------------|--------|
| 1/2 inch | 50 feet | 008.REEL12 | 1 |
| 3/8 inch | | 008.REEL38 | |

AIR HOSE FLEX HYBRID TECHNOPOLYMER



| Diameter I.D. | Diameter O.D. | Brass Fitting | Length | Art. No. | P. Qty |
|---------------|---------------|---------------|---------|-------------|--------|
| 1/2 inch | .71" | 3/8" NPT | 25 feet | 884.007012 | 1 |
| 3/8 inch | .59" | 1/4" NPT | | 884.007038 | |
| 1/2 inch | .71" | 3/8" NPT | 50 feet | 884.0070121 | |
| 3/8 inch | .59" | 1/4" NPT | | 884.0070381 | |

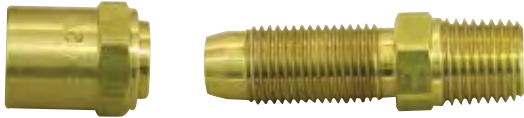
Features:

- Engineered hybrid polymer
- Reinforced with high tensile polyester yarns
- Working temperature range: 23F-140F (-5C - 60C)
- 300 PSI

Benefits:

- Provides the best attributes of PVC and rubber
- Superior flexibility
- Lightweight
- Good resistance to oils, heat, ozone and abrasion
- Easy to unwind and rewind

HOSE REPAIR FERRULES



**Example of
884.750-106 mated
with 884.751-6B**



Installation instructions:

- Thread the hose ferrule over the end of the hose.
- Thread the hose stem into the hose ferrule.

* **No hose clamps or band clamps are required.**

| Hose I.D | Reusable Hose Ferrule | Reusable Male Hose Stem | P. Qty |
|----------|-----------------------|-------------------------|--------|
| 3/8" | 884.750-106 | 884.751-6B | 5 |
| 1/2" | 884.750-148 | 884.751-8B | |

NOZZLE



Art. No. 884.1501

- Adjustable flow-cone spray, sharp stream and full flow with insulated molded grip for spraying hot and cold water
- Heavy duty die cast body with hold-open clip for continuous spraying
- Male hose threaded front for attaching accessories
- Brass valve spray mechanism
- Solid brass valve stem with permanent adjusting nut
- Rust resistant
- Rubber head guard to protect against scratches to cars

BRASS DUAL HOSE ADAPTER



Art. No. 884.1502

- Attaches to most outdoor taps
- Offers the opportunity to run two hoses off one tap or a hose and irrigation system etc.
- Solid milled brass male connector that will divide your hose into two sections
- 3/4" garden hose thread

WATER HOSE FITTINGS



| Hose Barb to Male Hose | |
|---------------------------------|-------------------|
| Hose I.D | Art. No. |
| 3/8 | 884.193-6 |
| 5/8 | 884.193-10 |
| Swivel Hose Barb to Female Hose | |
| Hose I.D | Art. No. |
| 3/8 | 884.195-6 |
| 5/8 | 884.195-10 |

- Repair and extend the life of old shop water hoses
- Machined from brass; will not rust
- Shorten or lengthen existing water hoses
- Join two existing water hoses

09 **EQUIPMENT & STORAGE**

2 System World

7 Tool & Storage Cabinets

13 ORSY

16 Flammable Liquids Storage Cabinets

16 DOS Rack

17 Packfix

19 Parts Washers & Accessories

20 Refillomat System & Accessories

22 Ultra Mobile Mini Lift

24 Workshop & Office Equipment



SYSTEM CASE 4.4.1

| | |
|--|-----------------------------|
| System Case Configuration | 4.4.1 |
| Width x depth x height (inches) | 14.56 x 10.62 x 3.34 inches |

| Number of System Boxes | Material | Lid Type | Art. No. |
|------------------------|----------|----------|--------------------|
| Empty* | ABS | Black | 5581.020000 |
| Empty* | ABS/PC | Clear | 5581.020500 |
| 2 boxes | ABS/PC | Clear | 5581.120000 |
| 3 boxes | ABS/PC | Clear | 5581.120001 |
| 11 boxes | ABS/PC | Clear | 5581.120002 |

*Inserts sold separately



Art. No. 5581.020000

*Inserts sold separately



Art. No. 5581.020500

*Inserts sold separately



Ideal for flexible storage of small parts, machines and tools used with consumables.

Totally customizable thanks to grid design

- Allows individual composition of contents in different application areas
- Possible to use case and contents with System Cabinets

Easily click cases together

- Integrated rail contour and coupling elements allow you to combine multiple cases and transport equipment safely

Functional design elements

- Black lid features an elastomer seal to protect contents from the rain
- Simple opening and closing
- Label section for adhesive or inserted labels
- Made from tough ABS and PC plastic

Built for comfort

- Large handle design
- Integrated soft elements and wide swivel radius to take pressure off hands and wrist
- Handle with up to 60 kg capacity



Don't forget the System Dividers for System Boxes!



Art. No. 5581.120000

Includes:

2 x 2.1.1 System Boxes



Art. No. 5581.120001

Includes:

1 x 2.4.1 System Boxes
2 x 2.2.1 System Boxes

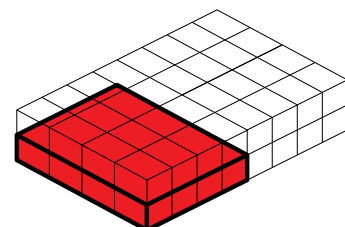
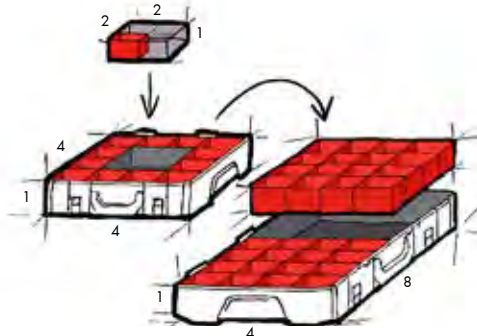


Art. No. 5581.120002

Includes:

1 x 2.2.1 System Box
2 x 2.1.1 System Boxes
8 x 1.1.1 System Boxes

4.4.1 = 16 System Grid squares



SYSTEM CASE 8.4.1

| | |
|--|-----------------------------|
| System Case Configuration | 8.4.1 |
| Width x depth x height (inches) | 19.69 x 14.96 x 3.34 inches |

| Number of System Boxes | Material | Lid Type | Art. No. |
|------------------------|----------|----------|--------------------|
| Empty* | ABS | Black | 5581.010000 |
| Empty* | ABS/PC | Clear | 5581.010500 |
| 4 boxes | ABS/PC | Clear | 5581.110000 |
| 10 boxes | ABS/PC | Clear | 5581.110001 |
| 10 boxes | ABS/PC | Clear | 5581.110004 |
| 16 boxes | ABS/PC | Clear | 5581.110002 |
| 22 boxes | ABS/PC | Clear | 5581.110006 |

*Inserts sold separately



Art. No. 5581.010000
*Inserts sold separately



Art. No. 5581.010500
*Inserts sold separately



Ideal for flexible storage of small parts, machines and tools used with consumables.

Totally customizable thanks to grid design

- Allows individual composition of contents in different application areas
- Possible to use case and contents with System Cabinets

Easily click cases together

- Integrated rail contour and coupling elements allow you to combine multiple cases and transport equipment safely

Functional design elements

- Black lid features an elastomer seal to protect contents from the rain
- Simple opening and closing
- Label section for adhesive or inserted labels
- Made from tough ABS and PC plastic

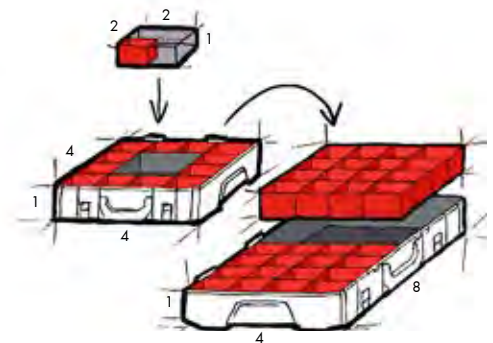
Built for comfort

- Large handle design
- Integrated soft elements and wide swivel radius to take pressure off hands and wrist
- Handle with up to 60 kg capacity



Don't forget the System Dividers for System Boxes!

8.4.1 = 32 System Grid squares



Art. No. 5581.110000
Includes:
4 x 2.4.1 System Boxes



Art. No. 5581.110001
Includes:
2 x 2.4.1 System Boxes
2 x 2.2.1 System Boxes
2 x 2.1.1 System Boxes
4 x 1.1.1 System Boxes



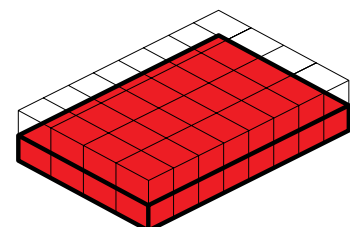
Art. No. 5581.110004
Includes:
2 x 8.1.1 System Boxes
2 x 2.2.1 System Boxes
2 x 2.1.1 System Boxes
4 x 1.1.1 System Boxes



Art. No. 5581.110002
Includes:
4 x 2.2.1 System Boxes
4 x 2.1.1 System Boxes
8 x 1.1.1 System Boxes



Art. No. 5581.110006
Includes:
2 x 2.2.1 System Boxes
4 x 2.1.1 System Boxes
16 x 1.1.1 System Boxes



SYSTEM BOXES



Art. No. 5581.035001



Art. No. 5581.035002



Art. No. 5581.035003



Art. No. 5581.035012



Art. No. 5581.035011

A variable compartment for orderly storage and retrieval of various small parts. The system boxes can be combined individually with all the system cases.

Compatibility thanks to grid dimensions

- Product dimension based on grid dimensions, which allows the boxes to be arranged individually in the system case

Secure connection in the system case

- Grid feet fix the boxes to the case floor, holding them in position
- The transparent lid prevents the contents from becoming cluttered

Individually adjustable

- Boxes can be further divided individually using System Dividers

Can also be used on workshop walls or mounting stations

- A groove allows the box to be hung on the assembly rails (**Art. No. 5581.039001**)

Simple identification of box contents

- Integrated, slightly offset labelling field

| Box Configuration | Dimensions (in) (l x d x h) | Art. No. | Qty. | Material |
|-------------------|-----------------------------|-------------|------|----------|
| 1.1.1 | 2.24 x 3.22 x 2.16 | 5581.035001 | 1 | ABS |
| 2.1.1 | 4.48 x 3.22 x 2.16 | 5581.035002 | | |
| 2.2.1 | 4.48 x 6.57 x 2.16 | 5581.035003 | | |
| 2.4.1 | 4.48 x 13.15 x 2.16 | 5581.035012 | | |
| 8.1.1 | 18.18 x 3.22 x 2.16 | 5581.035011 | | |

SYSTEM DIVIDERS

| Description | Dimension (in) | Art. No. | Qty. |
|-----------------------|--------------------|-------------|------|
| Red divider for X.1.1 | 2.75 x 0.31 x 1.77 | 5581.035020 | 4 |
| Red divider for 2.X.1 | 4.33 x 0.59 x 1.77 | 5581.035021 | |



Art. No. 5581.035020



Art. No. 5581.035021

PICK AND PLUCK FOAM

The pick and pluck foam allows you to create your own custom padded shape for your tools and accessories. Perforated segments throughout the foam make it easy to cut out the shape you want.

Note: Two foam pieces (5581.004900) will fit into the 8.4.1 System Case.

| | |
|-------------------------------|----------------------------|
| Foam Dimensions | 4.4.1 |
| Width x depth x height | 13.18 x 9.10 x 2.08 inches |

| Art. No. | Qty. |
|-------------|------|
| 5581.004900 | 1 |



SYSTEM INSERTS, BLACK

| | |
|-------------------------------|------------------------|
| Insert Configuration | 4.4.1 |
| Width x depth x height | 13.18 x 9.10 x 2.12 in |

| Number of Compartments | Art. No. | Qty. |
|--------------------------|-------------|------|
| 3 compartments | 5581.003010 | 1 |
| 8 compartments | 5581.003001 | |
| 12 compartments | 5581.003003 | |
| 16 compartments | 5581.003002 | |
| 20 compartments | 5581.003021 | |
| Dividers for 5581.003010 | 5581.003014 | 4 |

For convenient storage of small parts & accessories.

*Two inserts will fit into the 8.4.1 System Case for multiple storage possibilities.



Art. No. 5581.003010



Art. No. 5581.003001



Art. No. 5581.003003



Art. No. 5581.003002



Art. No. 5581.003021



Art. No. 5581.003014

Not compatible with clear system lids!

Insert 5581.003010 can be segmented using 5581.003014 (sold separately)

SYSTEM WORLD ACCESSORIES

SYSTEM ADAPTER PLATE



*Cases not included

Various System Cases can be stacked on top of one another and connected

- Owing to simple rail system
- Fixing using coupling elements
- Locking bolt mechanism secures the adapter plate on the 8.4 system cases

Storage in trunk

- Non-slip thanks to attachable spikes
- Plates can be joined together like jigsaw pieces
- Cases of both dimensions (8.4 and 4.4) can be stored

| Dimensions | Art. No. | Qty. |
|-------------------------|--------------------|------|
| 20.47 x 15.94 x 1.37 in | 5581.038000 | 1 |

SYSTEM TROLLEY



*Cases not included

Transportation device for System Cases 8.4, 4.4 and other objects

- Sturdy frame made from sheet steel
- Two fixed castors and two steering rollers with locking brake
- System Cases secure to trolley using coupling elements

| Dimensions | Art. No. | Qty. |
|-------------------------|--------------------|------|
| 24.21 x 19.29 x 7.28 in | 5581.038500 | 1 |

SYSTEM RAIL



For mounting system boxes. Capable of bearing loads up to 25 kg (depending on the fastenings). Multiple system boxes can be positioned.

Adjustment to the current assembly situation

- The system boxes can be positioned at two angles: Straight, and at a 45° angle for easy access.
- System boxes can slide horizontally on rails

Suspension rail can be attached wherever you need it

- Workshop trolleys
- Workbenches
- To masonry or other walls

| Dimensions | Art. No. | Qty. |
|------------------------|--------------------|------|
| 19.48 x 0.78 x 1.37 in | 5581.038500 | 1 |

SYSTEM CABINET – SYSTEM CASE HOLDER



Organisation system consisting of stackable modules for 5 System Cases that can also be screwed together.

Features & Benefits:

- Ball-bearing-mounted telescopic extensions
- Load per tray: 20 kg
- Side panels and rear panel with square perforation
- Stacking nubs
- Central locking with two keys
- Colour: graphite black (RAL 9011)
- Material: Sheet steel
- Powder-coated

Note: Supplied without cases

*Can be secured using **Art. No. 5581.040100**



| Compatible with | Width x depth x height | Art. No. | Qty. |
|-----------------|--------------------------|--------------------|------|
| 4.4.1 | 17.91 x 11.41 x 19.29 in | 5581.040000 | 1 |

| Compatible with | Width x depth x height | Art. No. | Qty. |
|-----------------|--------------------------|--------------------|------|
| 8.4.1 | 22.83 x 17.91 x 19.29 in | 5581.040002 | 1 |

SYSTEM CABINET SECURING SET



For attaching system stacking cabinets

| Description | Art. No. | Qty. |
|---------------------------|--------------------|------|
| Securing Set for Cabinets | 5581.040100 | 1 |

REPLACEMENT PARTS

| Description | Art. No. | Qty. |
|--|--------------------|----------------|
| Lock and key for System Cabinet | 5581.040101 | 1 lock, 2 keys |
| Latches for System Case | 5581.001000 | 1 |
| Locking mechanism to secure System Cases | 5581.001002 | |
| Handle for System Case | 5581.001001 | |



Art. No. 5581.040101



Art. No. 5581.001000



Art. No. 5581.001002



Art. No. 5581.001001

REPLACEMENT LIDS

| Description | Dimensions | Art. No. | Qty. |
|------------------------|------------------|--------------------|------|
| Black Lid 4.4.1 | 13.26 x 10.27 in | 5581.001010 | 1 |
| Clear Lid 4.4.1 | 13.26 x 10.27 in | 5581.001011 | |
| Black Lid 8.4.1 | 18.89 x 14.96 in | 5581.001020 | |
| Clear Lid 8.4.1 | 18.89 x 14.96 in | 5581.001021 | |

*Clear lid only compatible with red system boxes



Art. No. 5581.001010



Art. No. 5581.001011



Art. No. 5581.001020



Art. No. 5581.001021

WÜRTH BULB RACK



Art. No. 955.7201

Features:

- Constructed using prime cold rolled steel
- (4) Durable plastic tilt-out trays
- (28) Adjustable dividers are included allowing the creation of 4 to 32 compartments
- Back-up storage shelves are located behind hinged cover
- Ideal for the storage and organization of automotive bulbs, fuses, terminals, fasteners and more
- Unit can be wall hung using keyholes punched in the back

| | |
|-----------------|--|
| Material | All Welded Prime Cold Rolled Steel |
| Colour | Red powder coated finish and Rust and Acid Resistant |
| Depth | 4inch / 102mm |
| Height | 26-3/4inch / 680mm |
| Width | 19Inch / 483mm |
| Weight | 21lbs / 9.52Kg |

PREMIUM CABINETS



Art. No. 962.KD40

7 Drawer Cabinet

Dimensions:
48" x 40.25" x
24.5" (W x H x D)
Cabinet Weight:
480 lbs.

- 2 drawers 3" : 24 comp.
- 2 drawers 4" : 24 comp.
- 2 drawers 6" : 24 comp.
- 1 drawer 8" : 12 comp.

| 962.KD40 – Delivery Scope | | |
|---------------------------|-------------|--------------------------------------|
| Art. No. | Length (in) | No. of dividers delivered in cabinet |
| 962.D0307 | 7 | 24 |
| 962.D0308 | 8 | 12 |
| 962.D0407 | 7 | 24 |
| 962.D0408 | 8 | 12 |
| 962.D0607 | 7 | 24 |
| 962.D0608 | 8 | 12 |
| 962.D0807 | 7 | 4 |
| 962.D0808 | 8 | 2 |

PREMIUM CABINETS



Art. No. 962.KLD60

10 Drawer Cabinet

Dimensions:
48" x 60" x 24.5"
(W x H x D)
Cabinet Weight:
685 lbs.

- 3 drawers 4" : 24 comp.
- 2 drawers 5" : 24 comp.
- 4 drawers 6" : 24 comp.
- 1 drawer 8" : 12 comp.

| 962.KLD60 – Delivery Scope | | |
|----------------------------|-------------|--------------------------------------|
| Art. No. | Length (in) | No. of dividers delivered in cabinet |
| 962.D0407 | 7 | 36 |
| 962.D0408 | 8 | 18 |
| 962.D0507 | 7 | 24 |
| 962.D0508 | 8 | 12 |
| 962.D0607 | 7 | 48 |
| 962.D0608 | 8 | 24 |
| 962.D0807 | 7 | 4 |
| 962.D0808 | 8 | 2 |



Art. No. 962.MD32

10 Drawer Cabinet

Dimensions:
60" x 32.5" x 24.5"
(W x H x D)
Cabinet Weight:
540 lbs.

- Top Drawers:** 1 drawer 5" : 32 comp.
- Left Drawers:**
- 2 drawers 3" : 32 comp.
 - 2 drawers 4" : 32 comp.
 - 1 drawer 6" : 32 comp.
- Right Drawers:**
- 1 drawer 3" : 32 comp.
 - 1 drawer 4" : 32 comp.
 - 1 drawer 5" : 32 comp.
 - 1 drawer 8" : 12 comp.

| 962.MD32 – Delivery Scope | | |
|---------------------------|-------------|--------------------------------------|
| Art. No. | Length (in) | No. of dividers delivered in cabinet |
| 962.D0308 | 8 | 6 |
| 962.D0310 | 10 | 3 |
| 962.D0408 | 8 | 6 |
| 962.D0410 | 10 | 3 |
| 962.D0508 | 8 | 2 |
| 962.D0509 | 9 | 4 |
| 962.D0510 | 10 | 3 |
| 962.D0608 | 8 | 2 |
| 962.D0610 | 10 | 1 |
| 962.D0808 | 8 | 2 |
| 962.D0810 | 10 | 1 |



Art. No. 962.DD32

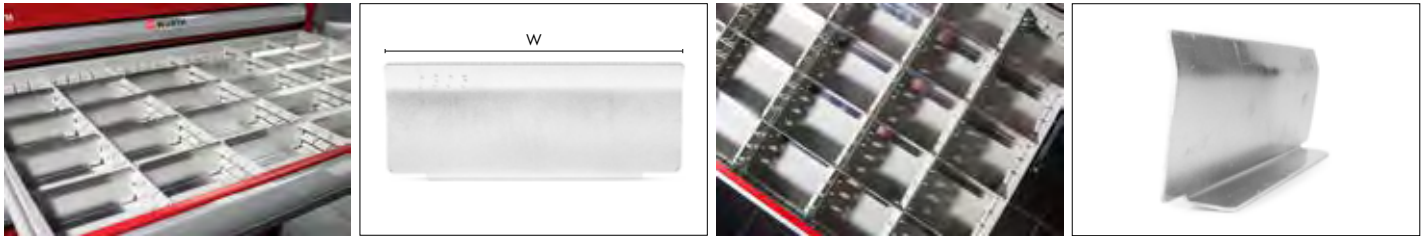
5 Drawer Cabinet

Dimensions:
30" x 32.5" x 24.5"
(W x H x D)
Cabinet Weight:
295 lbs.

- 1 drawer 6" : 25 comp.
- 1 drawer 3" : 25 comp.
- 1 drawer 4" : 25 comp.
- 1 drawer 5" : 25 comp.
- 1 drawer 8" : 10 comp.

| 962.DD32 – Delivery Scope | | |
|---------------------------|-------------|--------------------------------------|
| Art. No. | Length (in) | No. of dividers delivered in cabinet |
| 962.D0305 | 5 | 16 |
| 962.D0306 | 6 | 4 |
| 962.D0405 | 5 | 16 |
| 962.D0406 | 6 | 4 |
| 962.D0508 | 8 | 16 |
| 962.D0510 | 10 | 4 |
| 962.D0605 | 5 | 16 |
| 962.D0606 | 6 | 4 |
| 962.D0805 | 5 | 4 |
| 962.D0806 | 6 | 1 |

PREMIUM LINE CABINET DIVIDER GUIDE

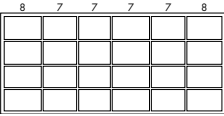
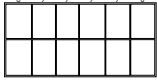


| Art. No. | Divider Size (Width) | Cabinet Compatibility | | | | | |
|-----------|----------------------|-----------------------|---------------------|--------------------|---------------------|---------------------|---------------------|
| | | 962.DD32 | 962.MD32 | 962.KD40 | 962.KLD60 | 962.M3205 | 962.ME3405 |
| | | 30"W x 24½"D x 32"H | 60"W x 24½"D x 32"H | 48"W x 24"D x 40"H | 48"W x 24½"D x 60"H | 36"W x 24½"D x 40"H | 36"W x 24½"D x 60"H |
| 962.D0304 | 4" | | √ | | | | |
| 962.D0305 | 5" | √ | | | | √ | √ |
| 962.D0306 | 6" | √ | √ | | | √ | √ |
| 962.D0307 | 7" | | | √ | √ | | |
| 962.D0308 | 8" | | √ | √ | √ | | |
| 962.D0309 | 9" | | √ | | | | |
| 962.D0310 | 10" | | √ | | | | |
| 962.D0404 | 4" | | √ | | | | |
| 962.D0405 | 5" | √ | | | | √ | √ |
| 962.D0406 | 6" | √ | √ | | | √ | √ |
| 962.D0407 | 7" | | | √ | √ | | |
| 962.D0408 | 8" | | √ | √ | √ | | |
| 962.D0409 | 9" | | √ | | | | |
| 962.D0410 | 10" | | √ | | | | |
| 962.D0504 | 4" | | √ | | | | |
| 962.D0505 | 5" | √ | | | | √ | √ |
| 962.D0506 | 6" | √ | √ | | | √ | √ |
| 962.D0508 | 8" | √ | √ | √ | √ | | |
| 962.D0509 | 9" | | √ | | | | |
| 962.D0510 | 10" | √ | √ | | | | |
| 962.D0604 | 4" | | √ | | | | |
| 962.D0605 | 5" | √ | | | | √ | √ |
| 962.D0606 | 6" | √ | √ | | | √ | √ |
| 962.D0607 | 7" | | | √ | √ | | |
| 962.D0608 | 8" | | √ | √ | √ | | |
| 962.D0609 | 9" | | √ | | | | |
| 962.D0610 | 10" | | √ | | | | |
| 962.D0805 | 5" | √ | | | | | |
| 962.D0806 | 6" | √ | | √ | √ | | |
| 962.D0807 | 7" | | | √ | √ | | |
| 962.D0808 | 8" | | √ | √ | √ | | |
| 962.D0809 | 9" | | √ | | | | |
| 962.D0810 | 10" | | √ | | | √ | √ |
| 962.D0811 | 11" | | | | | √ | √ |
| 962.D1006 | 6" | | | √ | √ | | |
| 962.D1007 | 7" | | | √ | √ | | |
| 962.D1008 | 8" | √ | | √ | √ | | |
| 962.D1009 | 9" | | √ | | | | |
| 962.D1010 | 10" | √ | √ | | | √ | √ |
| 962.D1011 | 11" | | | | | √ | √ |

*Request Special Orders for additional sizes of dividers or drawer partitions

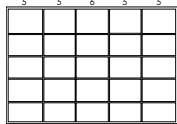
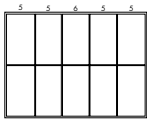
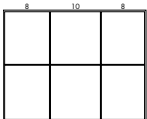
PREMIUM LINE CABINETS-DRAWER LAYOUTS

Art. No. 962.KD40 & 962.KLD60

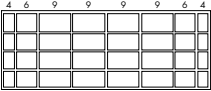

| Drawer Height Dimensions | Drawer Layouts Showing Dividers in Inches | No. of Compartments | Available Divider Sizes | Available Dividers Prefix 962. |
|--------------------------|---|---------------------|-------------------------|--------------------------------|
| 3" |  | 24 | 7" & 8" | D0307/D0308 |
| 4" | | | | D0407/D0408 |
| 5" | | | | D0507/D0508 |
| 6" | | | | D0607/D0608 |
| 8" |  | 12 | 6", 7" & 8" | D0806/D0807/D0808 |
| 10"-14" | | | | D1006/D1007/D1008 |

*Dividers delivered with cabinet may vary from the layouts shown

Art. No. 962.DD32

| Drawer Height Dimensions | Drawer Layouts Showing Dividers in Inches | No. of Compartments | Available Divider Sizes | Available Dividers Prefix 962. |
|--------------------------|---|---------------------|-------------------------|--------------------------------|
| 3" |  | 25 | 5" & 6" | D0305/D0306 |
| 4" | | | | D0405/D0406 |
| 5" | | | | D0505/D0506 |
| 6" | | | | D0605/D0606 |
| 8" |  | 10 | 5" & 6" | D0805/D0806 |
| 10"-14" |  | 6 | 8" & 10" | D1008/D1010 |

Art. No. 962.MD32

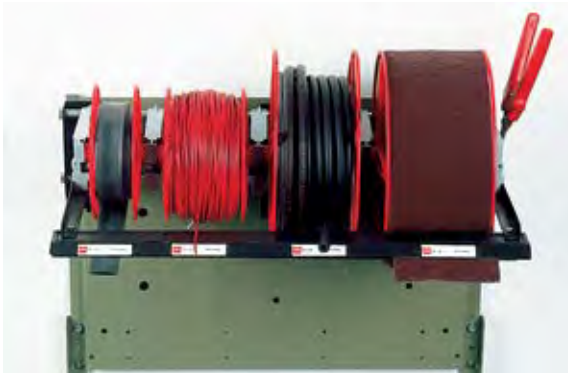
| Drawer Height Dimensions | Drawer Layouts Showing Dividers in Inches | No. of Compartments | Available Divider Sizes | Available Dividers Prefix 962. |
|--------------------------|---|---------------------|-------------------------|--------------------------------|
| 3" |  | 32 | 4", 6" & 9" | D0304/D0306/D0309 |
| 4" | | | | D0404/D0406/0409 |
| 5" | | | | D0504/D0506/0509 |
| 6" | | | | D0604/D0606/0609 |
| 8" |  | 12 | 9" & 10" | D0809/D0810 |
| 10"-14" | | | | D1009/D1010 |

*When reordering **962.MD32** dividers, always measure the divider width and drawer height or reorder using the engraved number on the divider

*Moving cabinet partitions reconfigures drawer layouts

*Consult Special Orders as needed

ORSY



Small Enviro Dispenser Rack

Art. No. 956.109

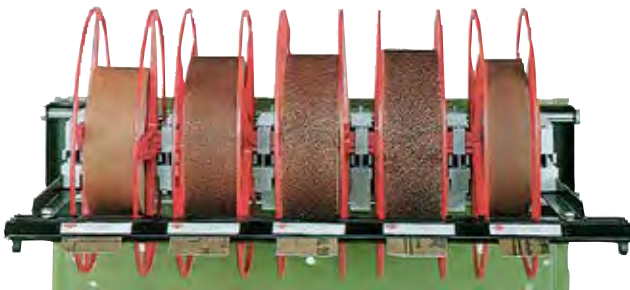
Contains:

- 1 Rack: 21" x 7 1/2" x 14" (W x H x D)
- 1 Tear blade (Cutters not included)
- 8 stars (Art. No. 956.10901); 5 brackets (Art. No. 956.10903)
- 4 spool holders

Recommended Use:

Holds 4-100 m wire rolls (see prefix 770)

***Available OnDemand**



Large Enviro Dispenser Rack

Art. No. 956.1090

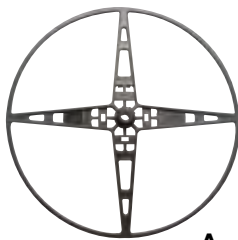
Contains:

- 1 Rack: 21" x 10" x 14" (W x H x D)
- Tear Blade (Cutters not included)
- 8 stars (Art. No. 956.10902); 5 brackets (Art. No. 956.10903)
- 4 spool holders

Recommended Use:

Can hold up to 5 emery Cloth rolls (prefix 674)

Can hold up to 4 rolls of fuel/vacuum hose line (prefix 895)



A



B

Replacement Parts

| Item | Description | Art. No. |
|------|------------------------------|------------------|
| A | Enviro dispenser, star-small | 956.10901 |
| A | Enviro dispenser, star-large | 956.10902 |
| B | Enviro dispenser bracket | 956.10903 |



Domestic Hose Dispenser Rack (empty)

Art. No. 966.810110

- For fuel line 1/4", 5/16" and 3/8"
- For vacuum line 5/32", 7/32" and 3/16"

Dimensions: 58 x 34 x 32 cm

ORSY



Metal Compartment Drawers

| Compartments | Art. No. |
|--------------|-----------------|
| 6 | 955.9502 |
| 12 | 955.912 |
| 16 | 955.916 |
| 24 | 955.924 |
| 32 | 955.932 |

Dimensions: 18" x 3" x 12" (W x H x D)



Wire Tie Holder

Art. No. 502.05020

From left to right:

Compartment 1: 7 cm x 8 cm (2 3/4" x 3 1/8")

Compartment 2: 10 cm x 16 cm (4" x 6 1/4")

Compartment 3: 13 cm x 27 cm (5 1/8" x 10 5/8")

Compartment 4: 15 cm x 32.5 cm (5 7/8" x 12 3/4")

Dimensions: 45 cm x 32.5 cm x 5 cm deep (16 1/2" x 12 3/4" x 2" deep)

- Suitable for wall mounting or ORSY cabinet
- Stock levels at-a-glance
- Easy retrieval
- Mounting hardware included
- Use with wire ties, Prefix 553

NOTE: It is recommended to store the wire ties in their original bags to prevent them from becoming brittle



4 Drawer Metal Cabinet (empty)

Art. No. 955.904

Dimensions:
20" x 15" x 15-3/4" (W x H x D)



ORSY Drawer with Adjustable Dividers

Art. No. 955.23013

Complete with 9 dividers and 36 slots

- Fits in the ORSY Cabinet Art. No. 955.904
- Suitable to store fasteners and spare parts of different lengths and sizes
- Made from metal
- Adjustable dividers (spare dividers Art. No. 955.23011 - 10 piece)

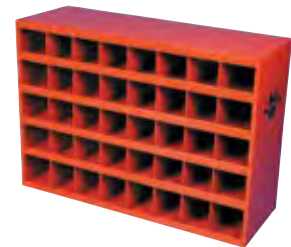
ORSY

Threaded Rod Rack
Art. No. 955.OS2050
Dimensions: 6 7/8" x 24" x 24 3/8" (W x H x D)

Aerosol Cabinet
Art. No. 955.900
Dimensions: 33 3/4" x 22 1/4" x 8 1/2" (W x H x D)

Wire Spool Rack
Art. No. 955.901
Dimensions: 26 1/8" x 37 1/8" x 6" (W x H x D)

Regal Storage Bin
Art. No. 966.2 - 18 Comp.
Art. No. 966.1 - 36 Comp.
Dimensions: 23.6" x 12.4" x 4.6" (W x H x D, 18) 23.6" x 24" x 4.6" (W x H x D, 36)

40 Compartment Bin
Art. No. 966.3
Dimensions: 33 3/4" x 22 1/4" x 9" (W x H x D)

40 Compartment Bin
Art. No. 966.13
Dimensions: 33 3/4" x 22 1/4" x 12" (W x H x D)

Base for: Multi-compartment bins
Art. No. 955.9721 - 9" deep
Art. No. 966.131 - 12" deep
Dimensions: 5 3/4" x 34" (W x L)

Rack for 4 Drawer Cabinet
Art. No. 955.9041
Dimensions: 16" x 15" x 20" (W x H x D)

FLAMMABLE LIQUIDS STORAGE CABINETS



- Double-wall 18 gauge welded steel construction with 1 1/2" air space
- Dual 2" capped vents with flame arresters
- Full-height piano hinges open a full 180° for easy access
- Locking handle with 3-point latch
- 2" high leak proof door sill
- All shelves are adjustable on 2 1/2" centres
- Adjustable levelling feet
- Tough corrosive-resistant finish
- Meets NFPA Code 30 and OSHA standard 1910.10 for storage of Class I, II and III liquids
- FM Approved

Order Processing Time: One week

FREIGHT:
To be determined based on location.

| Door Type | Capacity Gallons | Adjustable Shelves | Width | Depth | Height | Listing Approvals | Weight. lbs | Art. No. |
|--|------------------|--------------------|---------|-------|--------|-------------------|-------------|--------------------|
| 2-door, manual | 45 | 2 | 43" | 18" | 65" | FM | 252 | 962.SAQ326 |
| 2-door, manual | 60 | 2 | 34" | 34" | 65" | FM | 430 | 962.SAS521 |
| Extra Shelf | | | | | | | | |
| Extra shelf for use with 30 and 45 gallon cabinets | | | 39 3/8" | 14" | - | - | 9 | 999.SAQ328* |
| Extra shelf for use with 60 gallon cabinet | | | 30 3/8" | 30" | - | - | 12 | 999.SAS574* |

*AVAILABLE ONLY THROUGH SPECIAL ORDERS!

DOS RACK 14 COMPARTMENTS



Art. No. 891.273141

14 compartment rack for DOS products

Dimensions:

41cm x 10cm x 10cm (L x W x H)

DRAWER LINER



Keeps drawers and shelves clean. Scratch-free. Lines a 5-drawer cabinet or 10 drawer tool chest. Easy to install: Cut to desired length.

Ideal For:

- Tool Chests
- Tool Trolleys
- Shelves & Racks
- Cabinets

| Dimensions | Drawer Liner | Art. No. | P. Qty |
|------------|-------------------|-----------------|--------|
| 16" x 112" | Perforated Design | 962.6200 | 1 |

PACKFIX PACKAGING FILM



Art. No. 992.9001

For fast packing without cutting or adhesive residues

Features & Benefits:

- No adhesive residues
- No adhesive residues are left behind when the film is removed from the product.
- Good moulding capability
- Corners, edges and curves etc. can also be packaged and/or protected quickly and reliably with the film. This also means considerable time is saved.
- Quick to tear off

- The film can easily be torn off by dragging on the protruding section of the winding core. As a result, no extra cutting tools are required to cut the film.
- Recyclable PE film

Applications:

For packaging, bundling, protecting and securing a wide range of items, e.g. for packages, pallets, accessory articles, wooden strips, window profiles, carpet rolls, picture frames, wrapping steering wheels etc. instead of adhesive tape.

| Technical Information | |
|---|---------------------------------------|
| Material | PE - Polyethylene |
| Colour | Transparent |
| Width | 100 mm |
| Length | 150 m |
| Foil thickness | 23 µm |
| Stretch capacity | 550 % |
| Min. pressing pressure | 1.2 N/mm ² |
| Conditions for pressing pressure | with 8 wrappings |
| Ultraviolet resistance | 6 months |
| Max. temperature resistance | 70 °C |
| Chemical resistance | Application-dependent, query required |
| Shelf life from production | 24 months |
| Conditions to maintain shelf life from production | Dry storage area, 20°C |

PACKFIX PACKAGING FILM



Art. No. 992.9002

For fast packing without cutting or adhesive residues

Features & Benefits:

- No adhesive residues
- No adhesive residues are left behind when the film is removed from the product.
- Good moulding capability
- Corners, edges and curves etc. can also be packaged and/or protected quickly and reliably with the film. This also means considerable time is saved.
- Quick to tear off

- The film can easily be torn off by dragging on the protruding section of the winding core. As a result, no extra cutting tools are required to cut the film.
- Recyclable PE film

Applications:

For packaging, bundling, protecting and securing a wide range of items, e.g. for packages, pallets, accessory articles, wooden strips, window profiles, carpet rolls, picture frames, wrapping steering wheels etc. instead of adhesive tape.

| Technical Information | |
|---|---------------------------------------|
| Material | PE - Polyethylene |
| Colour | Transparent |
| Width | 500 mm |
| Length | 270 m |
| Foil thickness | 20 µm |
| Stretch capacity | 470 % |
| Min. pressing pressure | 0.7 N/mm ² |
| Conditions for pressing pressure | with 8 wrappings |
| Ultraviolet resistance | 6 months |
| Max. temperature resistance | 70 °C |
| Chemical resistance | Application-dependent, query required |
| Shelf life from production | 24 months |
| Conditions to maintain shelf life from production | Dry storage area, 20°C |

BLACK PACKFIX PACKAGING FILM

Art. No. 992.900220

For fast packing without cutting or adhesive residues



Features & Benefits:

- No adhesive residues
- No adhesive residues are left behind when the film is removed from the product.
- Good moulding capability
- Corners, edges and curves etc. can also be packaged and/or protected quickly and reliably with the film. This also means considerable time is saved.
- Quick to tear off

- The film can easily be torn off by dragging on the protruding section of the winding core. As a result, no extra cutting tools are required to cut the film.
- Recyclable PE film

Applications:

For packaging, bundling, protecting and securing a wide range of items, e.g. for packages, pallets, accessory articles, wooden strips, window profiles, carpet rolls, picture frames, wrapping steering wheels etc. instead of adhesive tape.

Technical Information

| | |
|---|---------------------------------------|
| Material | PE - Polyethylene |
| Colour | Black |
| Width | 500 mm |
| Length | 270 m |
| Foil thickness | 20 µm |
| Stretch capacity | 200 % |
| Min. pressing pressure | 0.7 N/mm ² |
| Conditions for pressing pressure | with 8 wrappings |
| Ultraviolet resistance | 6 months |
| Max. temperature resistance | 70 °C |
| Chemical resistance | Application-dependent, query required |
| Shelf life from production | 24 months |
| Conditions to maintain shelf life from production | Dry storage area, 20 °C |

HANDLE PACKFIX PACKAGING FILM

Art. No. 992.901



For use with Würth Packfix Packaging Film:

- 992.9001
- 992.9002
- 992.900220

ERGO SLIDING SLEEVE FOR PACKFIX

Art. No. 992.902001



Can be used with Würth Packfix Packaging Film:

- 992.9002
- 992.900220

BIOMATIC FLUID



Features:

- Aqueous based surfactant cleaner (no odour)
- Designed for difficult cleaning applications in the Biomatic parts washing system.
- Excellent for removing motor oil, bearing grease, automotive grease, impacted grease, creosote, resin products, hydraulic/transmission fluid, fifth wheel grease, crude oil, solder/flux, and animal fat.
- Free of volatile organic compounds (VOC)
- No flashpoint
- pH neutral
- Biodegradable
- Non-toxic, non-caustic, non-flammable, non-hazardous
- No phosphates, formaldehyde, biocides or solvents present

Technical Specifications:

- Appearance: Clear to yellow liquid
- Odour: Low/pleasant aroma
- Density: 0.9996 g/mL
- pH: 8.74
- Flash point: None

| Contents | Art. No. | P. Qty. |
|----------|----------------|---------|
| 18.9 L | 995.903 | 1 |

BIOMATIC PARTS WASHER



Art. No. 995.900

Portable solvent-free degreasing system for mechanical and brake parts that is safe for the user and the environment.

Features:

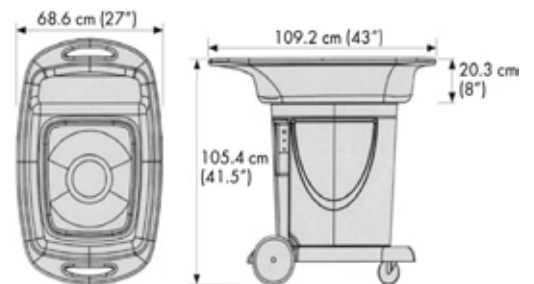
- The perfect combination of simplicity, robustness and mobility.
- Blow moulded high density nonconductive polyethylene for durability and impact resistance.
- Manual off/on flow control with toggle switch.
- Flow timer with 10 and 30 minute increments
- User regulated flow control to flexible tap or ergonomic brush.
- Flexible 1.5 m (4.9') hose for easy cleaning of brakes under a lift.
- Base with large wheels for greater mobility in the workshop.
- Thermostat maintains fluid at 42° C (107° F) for better washing effectiveness.
- Filter is changeable and disposable without hand tools or special equipment.
- System ready power on indicator (green) and low fluid level indicator (red).

P. Qty: 1

Technical Specifications:

- Pump: 1/125 HP (0.5 Amp) pump supplies a flow rate of 300 GPH with sump intake
- Tank capacity: 60 L
- Low fluid level: 40 L
- Empty unit weight: 32kg (70.5 lbs)
- Maximum load capacity: 227 kg (500 lbs)
- Heater: 1000 watt industrial heater

Unit Dimensions:



Package contents:

| Description | Art. No. | Qty. |
|---------------------------------|-------------------|------|
| Biomatic Parts Washer | 995.900 | 1 |
| Biomatic Fluid - 18.9 L | 995.903 | 3 |
| Standard Biomatic Filter | 995.900001 | 1 |
| Brush for Biomatic Parts Washer | 995.900005 | 1 |

RECIRCULATING PARTS WASHER



- * Assembly required
- * Brush not included



Spare Part:

Brush 96 cm **995.00095059**

Art. No. 995.000950

Portable, sturdy parts washer system for mechanical and brake parts that is safe for the user and the environment.

Features:

- Tank capacity - 20 gal
- Free standing washer
- Thermally protected 110V motor and On/Off switch
- Safety lever has a fusible link which shuts cover in case of fire
- Durable pump included
- 3 ways filtration traps grime
- Flush hose delivers flow of solvent to rinse parts clean, quickly and easily

| Technical Specifications | |
|---------------------------------------|-------------------------------------|
| Capacity | 20 Gallon |
| Solvent Capacity | 12 Gallon |
| Motor | .25 Amp |
| Voltage | 110V, 1 phase, 60 hz |
| Basin Dimension | 30-1/2" x 21-1/4" x 10" |
| Height of Stand | 24-1/2" |
| Assembled Dimensions (LxWxH) / Weight | 30-1/2" x 21-1/4" x 34-1/2" / 55lbs |

Note: spare parts and accessories can be purchased through special orders.



Recommended Parts Washer Liquid:

893.162701

REFILLOMAT SYSTEM



Art. No. 997.141887

The safe, economical system for the automatic refilling of spray cans with chemical and compressed air. The reusable 'aerosol' system

Safe, Economical, Environmentally friendly!

- The REFILLOmat can looks like an ordinary aerosol can, yet it is a tool. It is convenient to handle and sprays in every position.
- The REFILLOmat station regulates charging the reusable can with approx 300-400 ml of products and the correct pressure of compressed air (6 bar/87 psi), which acts as the propellant. Charging takes just 7 seconds!
- REFILLOmat combines the ease and convenience of an aerosol with the cost savings of bulk into one innovative system.
- The REFILLOmat system minimizes can garbage and waste, thus reducing negative environmental effects.

Benefits:

- Refillable
- Tremendous space savings
- Highly cost-effective
- The REFILLOmat cans have a protected spray nozzle
- Durable and long-lasting

Station delivery includes:

- Filling station
- Station grounding cable
- Depressurizing tool for cans
- Closing cap and hose
- Hose for compressed air supply, NPT 1/4"
- Additional hose
- Release plate for Brake Cleaner, Code 1:

Art. No.891.870951

1 year limited warranty. Use of any non-approved chemical voids warranty. Improper use may result in station malfunction and/or serious personal injury.

REFILLOMAT SYSTEM - ACCESSORIES



Release Plate for Station

Coated plastic releasing plate for station.

| Chemical | Art. No. |
|-------------------------------------|--------------------|
| Brake Cleaner, Code 1 | 891.870951 |
| Eco Window & Glass Cleaner, Code 11 | 891.8709511 |



Nozzle Set (Service Pack 8)

Art. No. 891.870001

Three "gold" nozzles for fine spray, three "black" nozzles for coarse spray. Simply attach to the VARIOCAP spray head.

P. Qty: 6



VARIOCAP Spray Head (Service Pack 7)

Art. No. 891.870000

Replacement VARIOCAP spray head.

P. Qty: 3

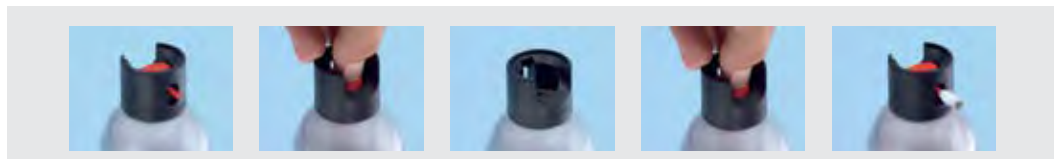


Universal holder for REFILLOmat can

Art. No. 891.8901

The universal can holder for quick access in the workshop.

P. Qty: 1



Simple spray head change - VARIOCAP: The spray head with the 'click'
VARIOCAP: Variable, A Joy to Use, Rugged, Innovative, Optimized

REFILLOMAT SYSTEM – CHEMICALS



Brake & Parts Cleaner

18.9 L Bulk - Art. No. 890.108718

500 mL Empty Can - Art. No. 891.9811

Highly concentrated solvent blend

- No chlorinated solvents
- Silicone and lead-free

Release plate included with station, Code 1: 891.870951

REFILLOMAT SYSTEM - REPLACEMENT ITEMS



Filling Valve (Service Pack 1)

Art. No. 891.870950

P. Qty: 1



Grounding Cable

(Service Pack 6)

Art. No. 891.870955

P. Qty: 1



Replacement O-Rings

Art. No. 997.135176

For filling nozzles on

REFILLOmat station

P. Qty: 10



Replacement Hose Kit

(Service Pack 3)

Art. No. 891.870952

Also included with the

REFILLOmat System

P. Qty: 1

ULTRA MOBILE MINI LIFT

Art. No. 995.100ML

An innovative, low profile, pneumatically operated scissor lift that will lift nearly any car, van, truck or SUV on the market.

Features:

Large directional wheels

Rolls easily, even over floor grates (ex: in paint booths)

Pneumatic air bag from Continental™

Top quality for the safest operation.

Low maintenance

No electric or hydraulic parts.

Large lifting pad

- At 48 cm long, provides high stability.
- Additional lift pad allows for lateral lifting.

Quick lift time

13 seconds to raise, 17 seconds to descend.

- Operates pneumatically.
- Compact size fits easily under most vehicles (accessory ramps are available).
- Allows lifting of the vehicle from the front, side, or rear. With the use of two MiniLifts, the entire vehicle can be lifted and moved.
- Reduces operator fatigue by lifting the vehicle to a comfortable working height.



A

| Image | Description | Art. No. | P. Qty. |
|-------|--|------------------|----------|
| A | Ultra Mobile Mini Lift (includes one pair of safety jack stands, Art. No. 995.102JS and lifting pad for side lifting) | 995.100ML | 1 |
| B | Replacement safety jack stands (pair) | 995.102JS | 1 (pair) |
| C | SUV frame adapter (pair) | 995.103FA | 1 (pair) |
| D | Audi/BMW/MB lift point pad (pair) | 995.105LP | 1 (pair) |
| E | Low profile clearance ramps (pair) (increase in ride height of 7cm) | 995.106CR | 1 (pair) |



B



C



D



E

ULTRA MOBILE MINI LIFT



Lateral lifting with lift pad in use (included with **Art. No. 995.110ML**)



Showing Safety Jack stands, **Art. No. 995.102JS** in use.



Both images above showing SUV Frame adaptors, **Art. No. 995.103FA**, in use.

| Technical Information: | |
|----------------------------------|--|
| Max. Lift Height (of vehicle) | Rear axle: 155 cm Front axle: 145 cm Side elevation: 60 cm |
| Size | 138 x 60 cm |
| Min. Height (clearance required) | 13 cm |
| Lift Capacity | 2 500 kg (5 511 lbs) |
| Max. Vehicle weight | 3 200 kg (7 054 lbs) |
| Lift pad length | 48 cm |
| Lift weight | 110 kg (242 lbs) |
| Power/Min. air supply | Compressed air, 1/4" FPT 6-8 bar (87-116 psi) |



INFORMATION FRAMES A4



Information frame for attaching documents to surfaces in production facilities or offices.

Features:

- Documents can be inserted and changed quickly with the magnetic or adhesive frame
- Simple to install on surfaces such as whiteboards, presentation boards, lockers and production safety boards
- Can be used in portrait or landscape orientation

Applications:

- For A4 documents such as machine files, operational figures, employee information, orientation information, hazardous substance instructions, operating instructions, fire safety identifiers, etc.

| Colour | Height | Width | Frame | Art. No. | Material |
|--------|--------|--------|---------------|------------|----------|
| Black | 236 mm | 323 mm | Self-Adhesive | 957.570001 | Plastic |
| Red | | | | 957.570002 | |
| Silver | | | | 957.570005 | |
| Black | 323 mm | 236 mm | Magnetic | 957.570015 | |
| Red | | | | 957.570016 | |
| Silver | | | | 957.570019 | |

SNEEZE GUARD ROLLER BLIND



Transparent barrier against droplet infections.

Features:

- Thin, crystal-clear material
- Dirt- and scratch-resistant
- Pre-mounted on mounting rail
- Side pulley (can be mounted either on the right or on the left)
- UV-resistant and 100% recyclable
- Infinitely adjustable
- For a neat and professional image in offices and workstations

10 LIGHTING

2 Automotive Bulbs

- 2 Motorcycle
- 4 North American
- 6 Import
- 8 European
- 10 Bulb Description & Standards

17 Lamps & Mounting Accessories

- 17 LED Lamps & Mounting Accessories
- 21 Incandescent Lamps
- 23 Work Lamps

24 Pocket Lights

25 Hand Lights

26 Work Lights

29 Service Bulbs





Headlight Bulbs

Ampoules pour phares avant



720.641500
#H11 55W



720.641300
#H4 60/55W



720.900600
#H1B9006



720.642110
#H11 55W



720.900300
#9003



720.642101
#H7 55W



720.641500
#H1 55W



720.900500
#9005



Front Turn-Signal Bulbs

Ampoules pour feux clignotant avant



720.744010
#7440A



720.975060
#7506



720.92827
#2827



720.750700
#7507



720.744000
#7440



720.194100
#194A



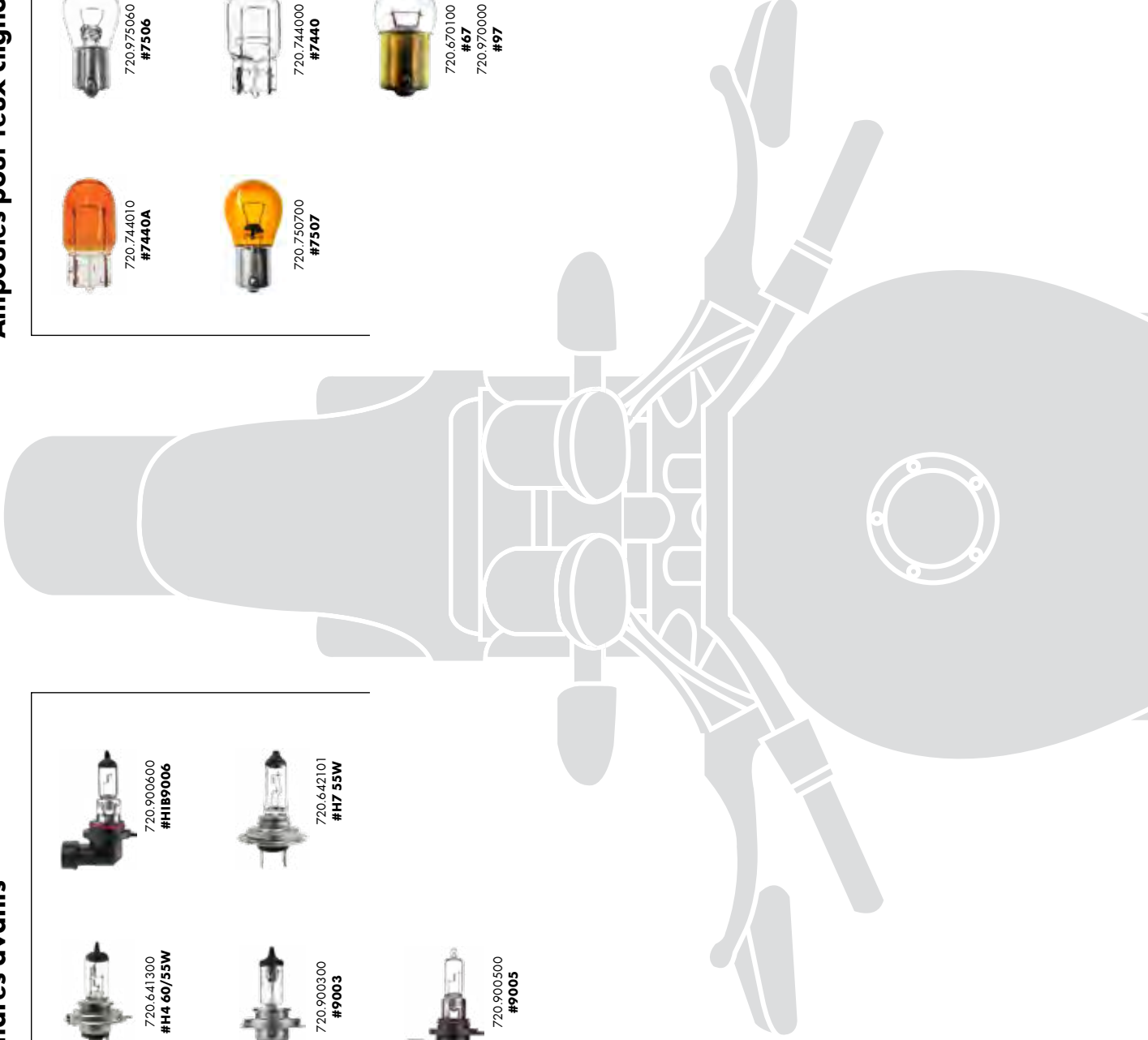
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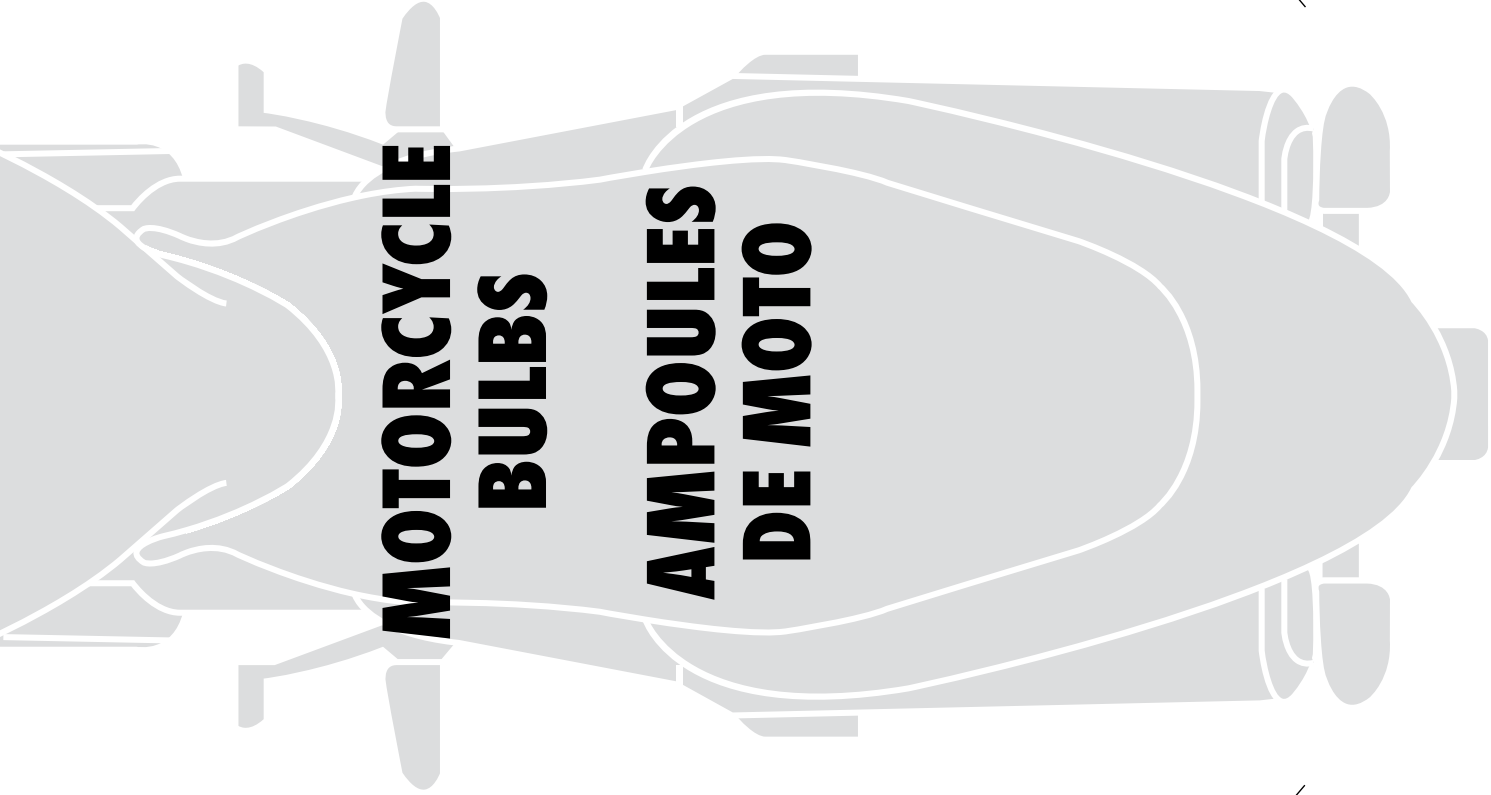


720.500700
#5007

720.970000
#97

720.950080
#5008





MOTORCYCLE BULBS AMPOULES DE MOTO



Rear Turn-Signal Bulbs Ampoules pour feux clignotants arrière



720.115600
#1156



720.750700
#7507



720.500700
#5007
720.950080
#5008



720.975060
#7506



720.115610
#1156A



Reversing/Brake Bulbs Ampoules pour feux de recul



720.500700
#5007



720.752800
#7528



License Plate Bulbs Ampoules pour lumière de plaque d'immatriculation



720.500700
#5007



720.001610
#161



720.641100
#6411



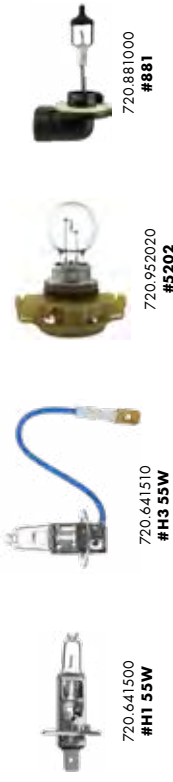
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Headlight Bulbs Ampoules pour phares avants



Fog Bulbs Ampoules pour phares antibrouillard



Park/Position Bulbs Ampoules de lumières de stationnement



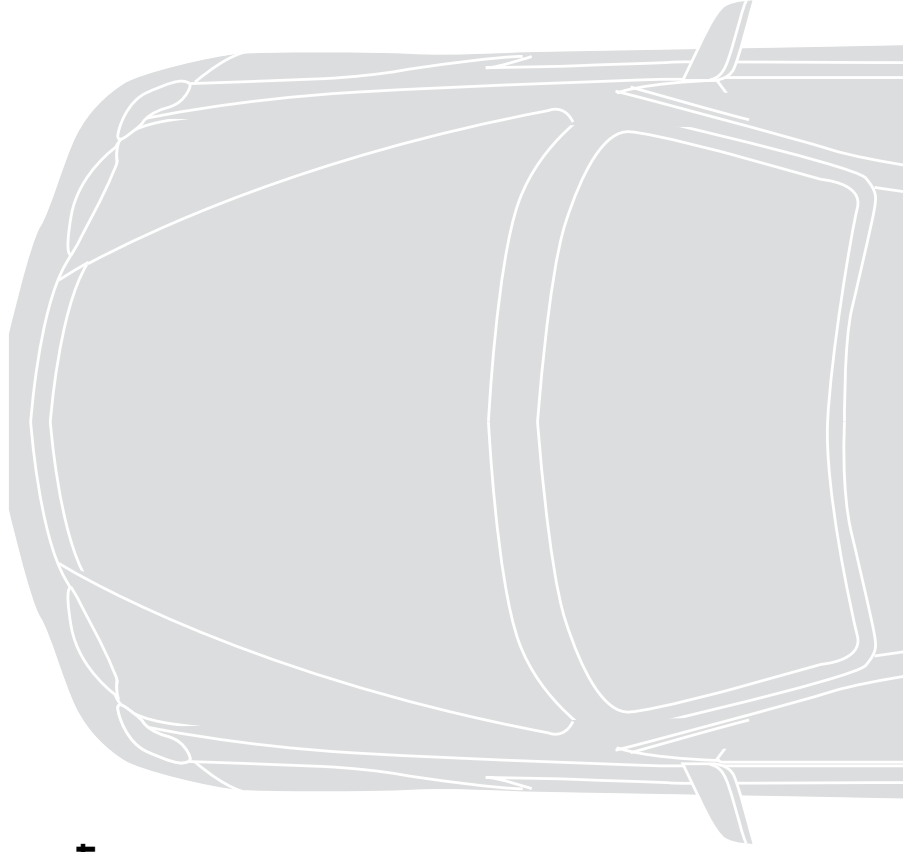
Front Turn-Signal Bulbs Ampoules pour feux clignotant avant



Panel Bulbs Ampoules de panneau latéral



Side Marker Bulbs Ampoules pour feux d'encombrement



NORTH AMERICAN NORD AMÉRICAIN

AUTOMOTIVE BULBS
AMPOULES AUTOMOTIVE

12V



Rear Turn-Signal Bulbs Ampoules pour feux clignotants arrière



Interior Bulbs Ampoules pour lumière intérieure



License Plate Bulbs Ampoules pour lumière intérieure



Brake/Tail Bulbs Ampoules pour feux arrière/feux d'arrêt



Reversing Bulbs Ampoules pour feux de recul



This is only a guide. Always refer to vehicle user manual. Not all bulbs are featured.

Ceci n'est qu'un guide. Veuillez toujours consulter le guide du propriétaire du véhicule. Les ampoules ne sont pas toutes illustrées.



Headlight Bulbs Ampoules pour phares avants



Fog Bulbs Ampoules pour phares antibrouillard



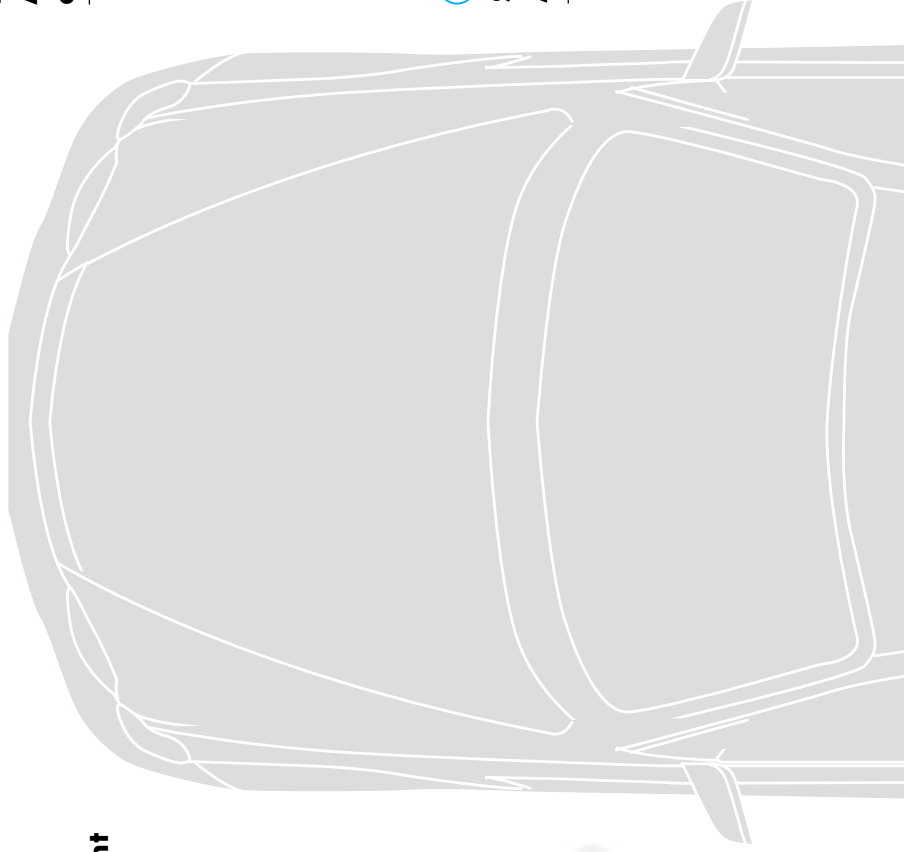
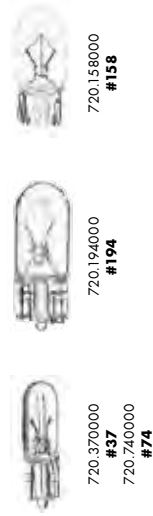
Front Turn-Signal Bulbs Ampoules pour feux clignotant avant



Park/Position Bulbs Ampoules de lumières de stationnement



Panel Bulbs Ampoules de panneau latéral





Rear Turn-Signal Bulbs Ampoules pour feux clignotants arrière



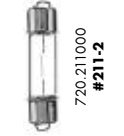
IMPORTÉ

AUTOMOTIVE BULBS AMPOULES AUTOMOTIVE

12V



Interior Bulbs Ampoules pour lumière intérieure



License Plate Bulbs Ampoules pour lumière intérieure



Brake/Tail Bulbs Ampoules pour feux arrière/feux d'arrêt



Reversing Bulbs Ampoules pour feux de recul





Headlight Bulbs Ampoules pour phares avants



Fog Bulbs Ampoules pour phares antibrouillard



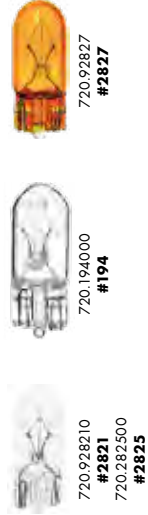
Park/Position Bulbs Ampoules de lumières de stationnement



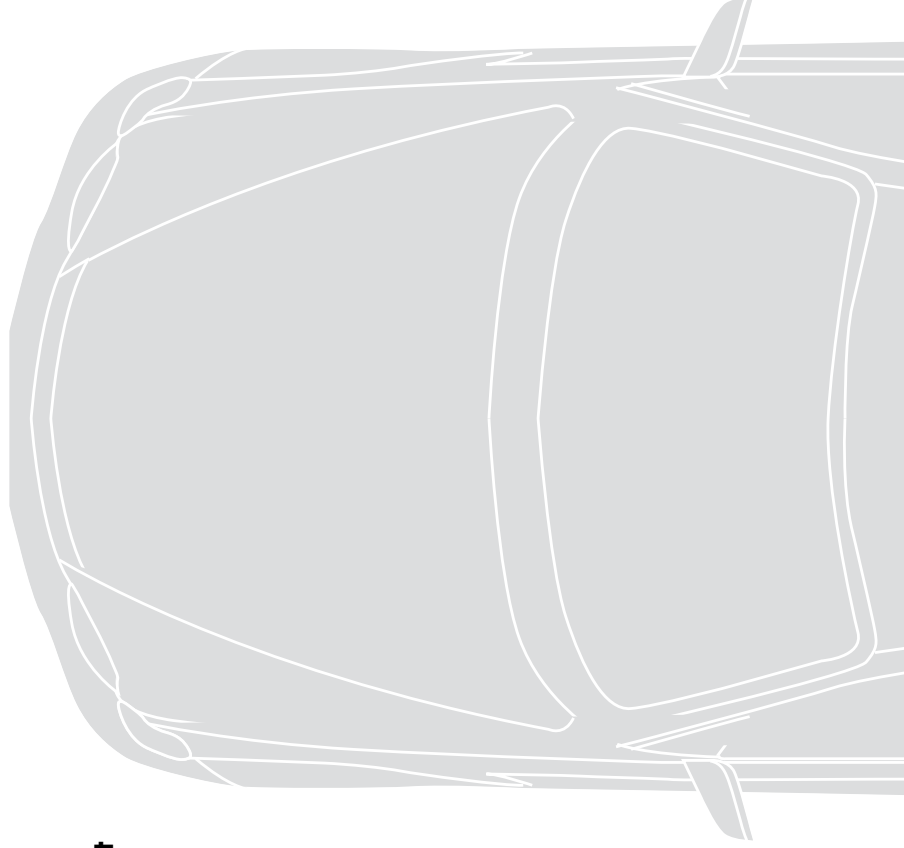
Front Turn-Signal Bulbs Ampoules pour feux clignotant avant



Panel Bulbs Ampoules de panneau latéral



Side Marker Bulbs Ampoules pour feux d'encombrement



EUROPÉAN EUROPÉEN

AUTOMOTIVE BULBS AMPOULES AUTOMOTIVE

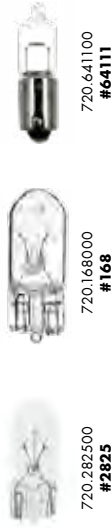
12V



Rear Turn-Signal Bulbs Ampoules pour feux clignotants arrière



Interior Bulbs Ampoules pour lumière intérieure



License Plate Bulbs Ampoules pour lumière intérieure



Brake/Tail Bulbs Ampoules pour feux arrière/feux d'arrêt



Reversing Bulbs Ampoules pour feux de recul



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MINIATURE BULBS • AMPOULES MINIATURES


 720.912000
 #912

 720.192100
 #921

 720.194100
 #194A

 720.168000
 #168

 720.194000
 #194

 720.370000
 #37

 720.240000
 #24

 720.744010
 #7440A

 720.744300
 #7443

 720.744000
 #7440

 720.906000
 #906

 720.189500
 #1895

 720.530000
 #53

 720.115710
 #1157A

 720.100300
 #1004

 720.100200
 #1003

 720.500700
 #5007

 720.670100
 #67

 720.570000
 #57

 720.115700
 #1157

 720.205700
 #2057

 720.115620
 #1156I

 720.115600
 #1156

 720.235700
 #2357



720.27211
#2721MF



720.744400
#4157LL



720.315710
#3157A



720.315600
#3156



720.305700
#3057

HALOGEN LAMPS • LAMPES HALOGÈNES



720.641510
#H355W



720.211000
#211-2



720.900300
#9003



720.900600
#H189006



720.900500
#9005






























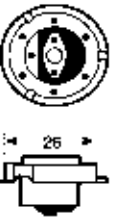

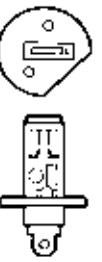


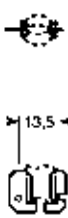
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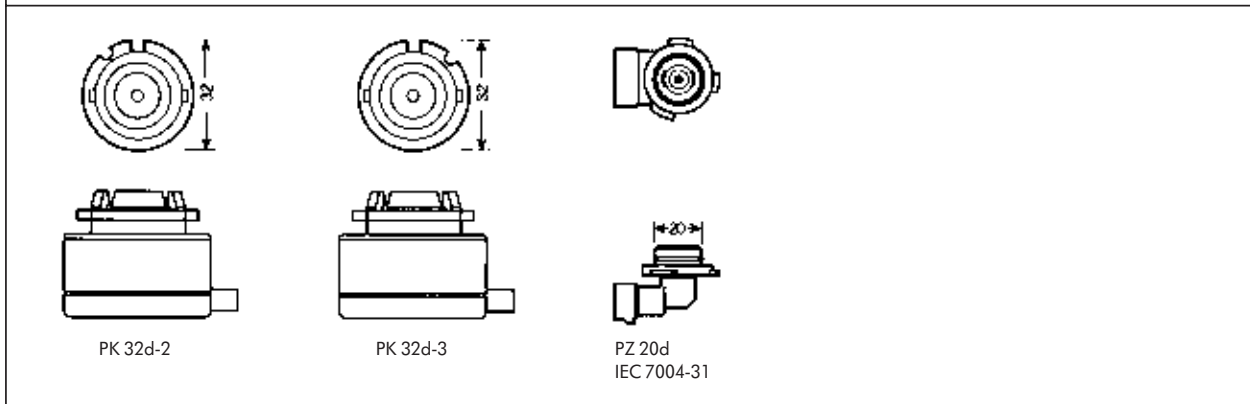
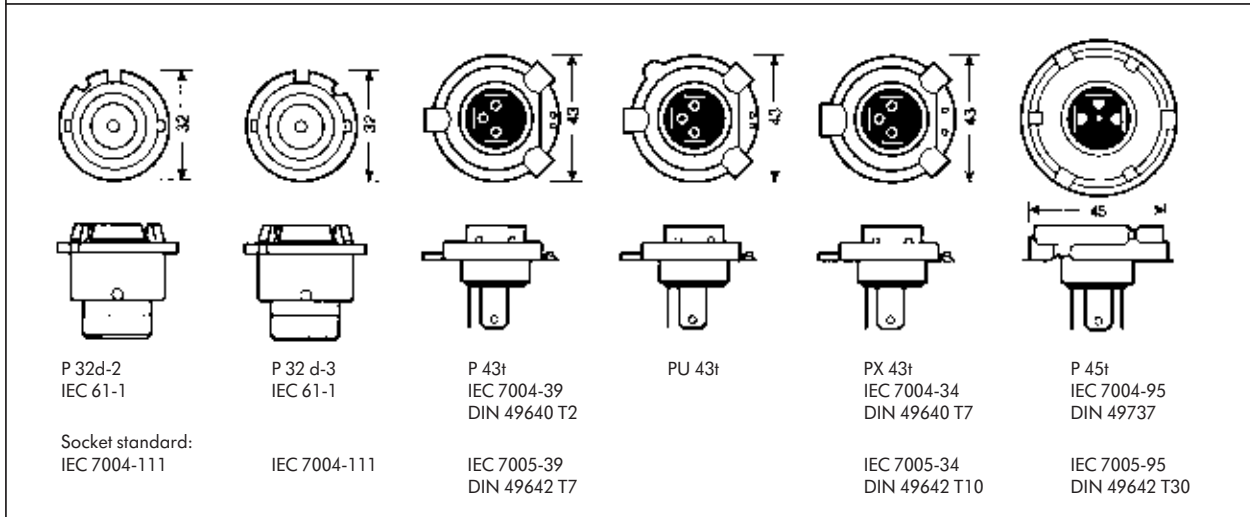
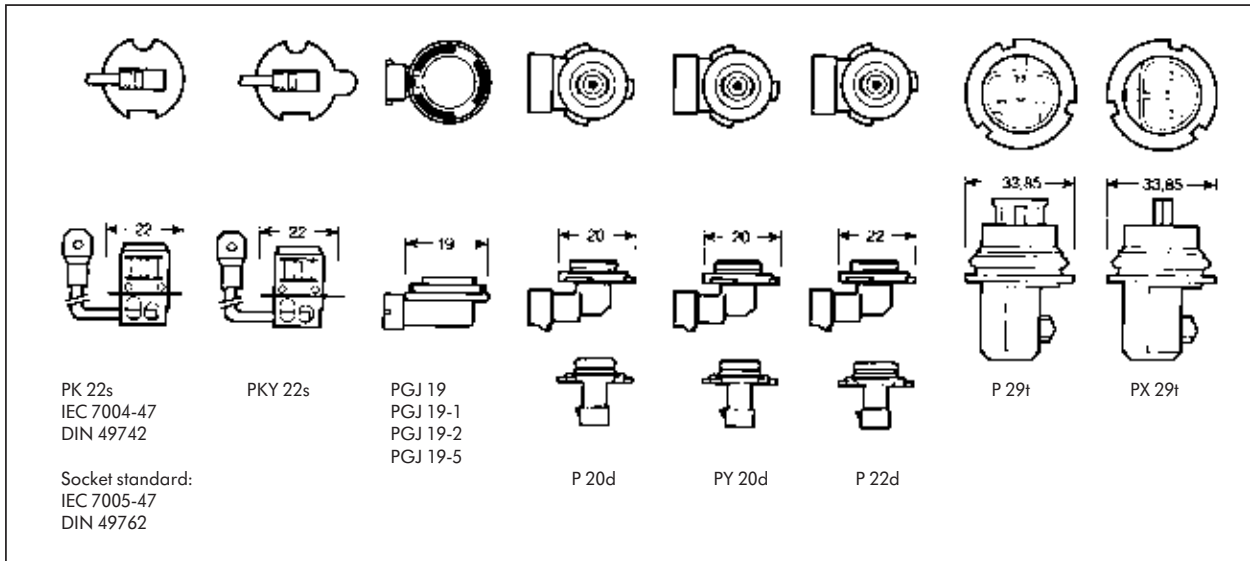


720.642110
#H11-55W

OUR TOP PICKS • NOS MEILLEURS CHOIX

Socket Overview with Socket Standards

| | | | | | | | | |
|---|---|---|--|--|--|---|--|--|
|  <p>E 10 IEC 7004-22 DIN 49610</p> <p>Socket standard: IRC 7005-20</p> |  <p>EP 10 IEC 7004-30 DIN 49701</p> <p>Socket standard: IEC 7005-30 DIN 49642 T27</p> |  <p>G 4 IEC 7004-72 DIN 49757</p> <p>Socket standard: IEC 7005-72</p> |  <p>SV 7-8 IEC 7004-80 DIN 49705 T1</p> <p>Socket standard: IEC 7005-80 DIN 49767</p> |  <p>SV 8,5-8 IEC 7004-81 DIN 49705 T2</p> <p>Socket standard: IEC 7005-80 DIN 49767</p> | | | | |
|  <p>W 2x4,6d IEC 7004-94 DIN 49632 T1</p> <p>Socket standard: IEC 7005-94 DIN 49642 T2</p> |  <p>W 2,1x9,2d</p> |  <p>W 2,1x9,5d IEC 7004-91 DIN 49632 T2</p> <p>Socket standard: IEC 7005-91 DIN 49642 T4</p> |  <p>W 2,5x1,6d</p> |  <p>W 2,5x1,6q</p> |  <p>W 4,3x8,5</p> | | | |
|  <p>BA 7s IEC 7004-15 DIN 49710</p> <p>Socket standard: IEC 7005-11 DIN 49642 T11</p> |  <p>BA 9s IEC 7004-14 DIN 49715</p> <p>Socket standard: IEC 7005-12 DIN 49642 T12</p> |  <p>BAY 9s DIN 49640</p> |  <p>BAX 9s DIN 49640</p> |  <p>B 8,4-12,5 BxB 8,4-12,5</p> |  <p>B 8,5d BX 8,5d</p> |  <p>B 8,3d</p> |  <p>B 8,7d</p> |  <p>B 10d-14,5 BX 10d-14,5</p> |
|  <p>BA 15s IEC 7004-13 DIN 49720 T1</p> <p>Socket standard: IEC 7005-13 DIN 49642 T6</p> |  <p>BAU 15s IEC 7004-19 DIN 49720 T5</p> <p>Socket standard: IEC 7005-13 DIN 49642 T8</p> |  <p>BA 15d IEC 7004-13 DIN 49720 T1</p> <p>Socket standard: IEC 7005-13 DIN 49642 T6</p> |  <p>BAY 15d IEC 7004-11 B DIN 49720 T2</p> <p>Socket standard: IEC 7005-13 DIN 49642 T6</p> |  <p>BAZ 15d DIN 49720 T4</p> |  <p>BA 20d IEC 7004-12 DIN 49730</p> <p>Socket standard: IEC 7005-14 DIN 49735</p> |  <p>BA 20s IEC 7004-12 DIN 49730</p> <p>Socket standard: IEC 7005-14 DIN 49735</p> | | |
|  <p>P 26s IEC 7004-36 DIN 49727</p> <p>Socket standard: IEC 7005-36 DIN 49642 T2</p> |  <p>PX 13,5s IEC 7004-35 DIN 49640 T5</p> <p>Socket standard: IEC 7005-35 DIN 49642 T5</p> |  <p>P 14,5s IEC 7004-46 DIN 49738</p> <p>Socket standard: IEC 7005-46 DIN 49739</p> |  <p>PX 14,5s</p> |  <p>PX 26 d IEC 7004-5-1</p> |  <p>X 511 IEC 7004-99 DIN 49640 T1</p> <p>Socket standard: IEC 7005-99 DIN 49642 T2</p> | | | |



- BA = Bayonet
- B = Plastic socket
- W = Glass socket
- s (single) = 1-pin
- d (double) = 2-pin
- t (triple) = 3-pin

BULB DESCRIPTIONS

| Article Number | Bulb Number | Article Description | Pack Size | Product Weight (grams per item) | Power Ratin | Nominal Voltage | Socket Designation |
|-------------------------|--------------|--|-----------|---------------------------------|------------------|-----------------|----------------------------|
| INDICATOR BULBS | | | | | | | |
| 720.100200 | 1003 | 12.8V-12W MINI LAMP .94AMP NO.1003 | 10 | 181.43 | 12.03 | 12.8V | SC Bayonet |
| 720.100300 | 1004 | 12.8V-12W MINI LAMP .94AMP NO.1004 | 10 | 181.43 | 12.032 | 12.8V | DC Bayonet |
| 720.315600 | 3156 | 12.8V-26W MINI LAMP 2.1AMP NO.3156(P27W) | 10 | 136.07 | 26.88 | 12.8V | SF Plastic Wedge |
| 720.744000 | 7440 | 12V-21W MINI LAMP 1.75AMP NO.7440(W21W) | 10 | 181.43 | 21 | 12.00V | Wedge (T 6 1/2) |
| 720.744010 | 7440A | 12V-21W AMBER MINI LAMP 1.75AMP NO.7440A | 10 | 181.43 | 21 | 12.00V | Wedge (T 6 1/2) |
| BRAKE/TAIL BULBS | | | | | | | |
| 720.001610 | 161 | 14V-2.66W WEDGE T-3.25 .19AMP NO.161 | 10 | 45.35 | 2.66 | 14.00V | Wedge T 3 1/4 |
| 720.099160 | 916 | 13.5V-7.29W WEDGE T-5 .54 AMP NO.916 | 10 | 90.71 | 7.29 | 13.5V | Wedge T5 |
| 720.099161 | 916NA | 13.5V-7W MINI WEDGE AMBER-T-5 NO.916NA | 10 | 90.71 | 7.29 | 13.5V | Wedge T5 |
| 720.192100 | 921 | 12.8V-17.92W WEDGE T5 1.40A NO.921 (11W6W) | 10 | 90.71 | 17.92 | 12.8V | Wedge T5 |
| 720.099220 | 922 | 12.8V-12.54W WEDGE T-5 0.98AMP NO.922 | 10 | 90.71 | 12.544 | 12.8V | Wedge T5 |
| 720.103400 | 1034 | 12.8V-23/8W DC INDEX S8 1.8/.59A NO.1034 | 10 | 181.43 | 23/8.59 | 12.8/14V | DC Index (BAY 15d) |
| 720.114100 | 1141 | 12.8V-18.4W MINI LAMP S8 1.44AMP NO.1141 | 10 | 181.43 | 18.4 | 12.8V | SC Bayonet (BA 15s) |
| 720.115400 | 1154 | 6.3V-16.5/5W DCINDEX S8 2.63/.75A NO1154 | 10 | 181.43 | 16.57/5.25 | 6.3/7V | DC Index (BAY 15d) |
| 720.115600 | 1156 | 12.8V-26.88W MINI LAMP S8 2.10AMP N.1156 | 10 | 181.43 | 26.88 | 12.8V | SC Bayonet (BA 15s) |
| 720.305700 | 3057 | 12.8V-26.88W WEDGE S8 D.F. 2.1AMP NO3057 | 10 | 136.07 | 26.88/6.72 | 12.8/14V | DF Plastic Wedge |
| 720.500700 | 5007 | 12V-5W MINI LAMP T6 SC .41A NO.5007(R5W) | 10 | 90.71 | 5 | 12V | SC Bayonet (BA 15s) |
| 720.722500 | 7225 | 12V-28W INDEX DC S8 1.75A NO7225(P21/4W) | 10 | 181.43 | 28.80/3.96 | 12.8/12V | DC Index (BAZ15d) |
| 720.744300 | 7443 | 21V-21/5W WEDGE T6.5 1.75 NO7443(W21/5W) | 10 | 181.43 | 21/5 | 12.00V | Wedge T-6 1/2 |
| 720.975060 | 7506 | 12V-21W MINI LAMP S8 1.75AM NO7506(P21W) | 10 | 181.43 | 21 | 12.00V | SC Bayonet (BA 15s) |
| 720.750700 | 7507 | 12V-21W AMBER MINI S8 1.75A NO7507(P21W) | 10 | 181.43 | 21 | 12.00V | SC Bayonet (BAU15s) |
| 720.752800 | 7528 | 12.8V-21W INDEXDCS8 1.75A NO7528(P21/5W) | 10 | 181.43 | 21/5 | 12.8/12V | DC Index (BAY 15d) |
| 720.115610 | 1156A | 12.8V-26.88W AMBER MINI S8 2.10A NO1156A | 10 | 181.43 | 26.88 | 12.8V | SC Bayonet (BA15s) |
| 720.115620 | 1156I | 12.8V-26.88W MINI LAMP S8 2.10AMP N.1156I | 10 | 181.43 | 26.88 | 12.8V | |
| 720.405700 | 4057LL | 12.8V-28.5W WEDGE S8 2.23AMP NO.4057LL | 10 | 136.07 | 28.5/6.72 | 12.8/14V | DF Plastic Wedge |
| 720.941140 | 4114LL | 14V-31.2W WEDGE S8 DF 2.23AMP NO.4114LL | 10 | 136.07 | 31.2/8.26 | 14/14V | DF Plastic Wedge |
| 720.744400 | 4157LL | 12.8V-28.54W WEDGE S8 DF 2.1AMP NO4157LL | 10 | 136.07 | 28.54/8.26 | 12.8/14V | DF Plastic Wedge |
| 720.744500 | 7444NA | 12.8V-28W AMBER WEDG T6.5 2.23A NO7444NA | 10 | 181.43 | 28/8 | 12.8/14V | Wedge T 6 1/2 |
| HALOGEN BULBS | | | | | | | |
| 720.900300 | 9003 | 12V-67/61W HALOGEN T4 5/8 5.2/4.7A N9003 | 1 | 36.28 | 67 High/ 61 Low | 12.00V | P43t |
| 720.900400 | 9004 | 12V-65/45W HALO T4 5/8 5.08/3.51A N9004 | 1 | 49.89 | 65 High/ 45 Low | 12.00V | Axial Prefocus (P29t) |
| 720.900500 | 9005 | 12V-65W HALOGEN T4 5.08AMP NO.9005 | 1 | 36.28 | 65 | 12.00V | Right Angle Prefocous P20d |
| 720.900600 | 9006 | 12W-55W HALOGEN T4 5/8 4.3AMP NO.9006 | 1 | 36.28 | 55 | 12.00V | P22d |
| 720.900700 | 9007 | 12V-65/55W HALO T4 5/8 5.08/4.29A N9007 | 1 | 49.89 | 65 High/ 55 Low | 12.00V | PX29t |
| 720.914500 | 9145 | 12V-45W HALOGEN T4 3.75AMP NO.9145 | 1 | 36.28 | 45 | 12.00V | Right Angle Prefocous P20d |
| 720.641100 | 6411I | 12V-5W HALOGEN T2 3/4 .42AM NO6411I (H5W) | 1 | 9.07 | 5 | 12.00V | Miniature Bayonet (BA9s) |
| 720.641362 | 64136 | 13.5V-26.25W HA T2 3/4 1.5A N64136(H21W) | 1 | 9.07 | 26.25 | 13.5V | Miniature Bayonet (BAY9s) |
| 720.990043 | 9004 100/80W | 12W-100/80W H T45/58 7.82A N9004 100/80W | 1 | 49.89 | 100 High/ 80 Low | 12.00V | Axial Prefocus (P29t) |
| 720.990060 | 9006XS | 12V-55W HALOGEN T4 5/8 4.3AMP NO.9006XS | 1 | 36.28 | 55 | 12.00V | P22d Straight |
| 720.900800 | 9008 (H13) | 12V-60/55W H T5 1/4 4.69/4.2A N9008(H13) | 1 | 49.59 | 60 High/ 55 Low | 12.00V | P26.4t |
| 720.880120 | 9012LL | 12V-60W HALOGEN T4 LONGLIFE NO.9012LL | 1 | 36.28 | 60 | 12.00V | PX22d |
| 720.641520 | H1 100W | 13V-85W HALOGEN T 2 1/2 8.33A NO.H1 100W | 1 | 9.07 | 85 | 13.00V | P14.5s |
| 720.641500 | H1 55W | 12V-65W HALOGEN T2 1/2 4.58AMP NO.H1 55W | 1 | 9.07 | 65 | 12.00V | P14.5s |
| 720.642110 | H11 55W | 12V-65W HALOGEN T2 1/2 4.58AMP N.H11 55W | 1 | 36.28 | 55 | 12.00V | PGJ19-2 |
| 720.642410 | H3 100W | 12V-55W HALOGEN T3 1/2 4.58AMP NO. H11B | 1 | 36.28 | 55 | 12.00V | PGJ19-2 |
| 720.641530 | H11B | 12V-100W HALOGEN T3 1/2 8.33AMP N.H3100W | 1 | 9.07 | 100 | 12.00V | PK22s |
| 720.641510 | H3 55W | 13V-68W HALOGEN T3 1/4 4.58AMP N.H3 55W | 1 | 9.07 | 68 | 13.00V | PK22s |
| 720.912590 | H4 100/55W | 13V-100/55W H T4 5/8 8.3/4.58A N.4100/55W | 1 | 36.28 | 100 High/ 55 Low | 13.00V | P43t |
| 720.641300 | H4 60/55W | 13.2V-60/55W H T4 5/8 5/4.58A N.H460/55W | 1 | 36.28 | 60 High/ 55 Low | 13.2V | P43t |
| 720.642152 | H7 70W 24V | 24V-70W HALOGEN T3 1/2 2.92A NO.H724V70W | | 18.14 | 70 | 24.00V | PX26d |
| 720.642101 | H7 55W | 12V-55W HALOGEN PX26d-4.58A NO.H7 55W | | 18 | 56 | 12.00V | PX26d |
| 720.642120 | H8 35W | 12V-35W HALOGEN T4 2.91AMP NO. H8 35W | 1 | 36.28 | 35 | 12.00V | PGJ19-1 |
| 720.642130 | H9 65W | 12.8V-70W HALOGEN T4 5.41AMP NO.H9 65W | 1 | 36.28 | 70 | 12.8V | PGJ19-5 |
| 720.641950 | HIB9003 | 12.8V-64/61W HALOGEN 5.5/5A NO.HIB9003 | 1 | 36.28 | 60/55 | 12.00V | P43t |
| 720.900600 | 9006 | 12V-55W HALOGEN T4 5/8 4.3AMP NO.HIB9006 | 1 | 36.28 | 55 | 12.00V | P22d |

BULB DESCRIPTIONS

| Article Number | Bulb Number | Article Description | Pack Size | Product Weight (grams per item) | Power Rating | Nominal Voltage | Socket Designation |
|----------------------------|-------------|---|-----------|---------------------------------|--------------|-----------------|------------------------------|
| HEADLIGHT BULBS | | | | | | | |
| 720.880000 | 880 | V12-27W HALOGEN T3 1/4 2.1AMP NO.880 | 1 | 18.14 | 27 | 12.00V | Axial (PG13) |
| 720.881000 | 881 | V12-27W HALOGEN T 1/4 2.1AMP NO.881 | 1 | 18.14 | 27 | 12.00V | Right Angle Prefocus (PGJ13) |
| 720.886000 | 886 | V12-50W HALOGEN T3 1/4 3.9AMP NO.886 | 1 | 18.14 | 50 | 12.00V | Right Angle Prefocus (PGJ13) |
| 720.889000 | 889 | V12-27W HALOGEN T3 1/4 2.1AMP NO.889 | 1 | 18.14 | 27 | 12.00V | Right Angle Prefocus (PGJ13) |
| 720.189300 | 891 | 12V08W HALOGEN T3 .63AMP NO.891 | 1 | 18.14 | 8 | 12.00V | G4 Bi-Pin |
| 720.893000 | 893 | 12V-37.5W HALOGEN T3 1/4 2.93AMP NO.896 | 1 | 18.14 | 37.5 | 12.00V | Axial (PG13) |
| 720.896000 | 896 | 12V-37.5W HALOGEN T3 1/4 2.93AMP NO.896 | 1 | 18.14 | 37.5 | 12.00V | Right Angle Prefocus (PGJ13) |
| 720.925040 | 2504 | 12V-24W HALOGEN G6 2AMP NO.2504 | 1 | 18.14 | 24 | 12.00V | C-8Z |
| 720.952020 | 5202 | 12V-24W HALOGEN G6 2AMP NO.5205 | 1 | 18.14 | 24 | 12.00V | PG20-3 |
| FESTOON BULBS | | | | | | | |
| 720.934260 | 3423 | 12V-5W FESTOON CAP T4 .42AMP NO.3423 | 10 | 90.71 | 5 | 12.00V | Festoon Cap |
| 720.934250 | 3425 | 12V-10W FESTOON T4 .83AMP NO.3425 | 10 | 90.71 | 10 | 12.00V | Festoon Cap |
| 720.646100 | 6461 | 12V-10W FESTOON T3 1/4 .83AMP NO.6461 | 10 | 90.71 | 10 | 12.00V | Festoon Cap |
| PARKING/LIGHT BULBS | | | | | | | |
| 720.107300 | 1073 | 12.8W-23.04W MINI LAMP S8 SC 1.8AMP NO.1073 | 10 | 181.43 | 23.04 | 12.8V | SC Bayonet (BA 15s) |
| 720.115700 | 1157 | 12.8/14V-26/8W MINI S8 DC 2.1/.59A N1157 | 10 | 181.43 | 26.88/8.26 | 12.8/14V | DC Index (BAY15d) |
| 720.204000 | 2040 | 12.8W-8W HALOGEN WEDGE T2 1/4 .63A N2040 | 1 | 90.71 | 8 | 12.8V | Wedge (T 2 1/4) |
| 720.205700 | 2057 | 12.8/14V-26/6W S8 DC INDEX 2.1A N2057 | 10 | 181.43 | 26.88/6.72 | 12.8/14V | DC Index (BAY15d) |
| 720.235700 | 2357 | 12.8/14V-28/8W S8DC INDEX 2.2/.59A N2357 | 10 | 181.43 | 28.16/8.26 | 12.8/14V | DC Index (BAY15d) |
| 720.282500 | 2825 | 12V-4.8W WEDGE T 3 1/4 .40A NO.2825(W5W) | 10 | 45.35 | 4.8 | 12V | Wedge (T3 1/4) |
| 720.315700 | 3157 | 12.8/14V-26/8W WEDGE S8DF 2.1/.59A N3157 | 10 | 136.07 | 26.88/8.26 | 12.8/14V | DF Plastic Wedge |
| 720.335700 | 3457 | 12.8/14V-28/6W WEDGE S8DF 2.2/.59A N3457 | 10 | 136.07 | 28.16/8.26 | 12.8/14V | DF Plastic Wedge |
| 720.934960 | 3496 | 12.8/14V-25.2/8W T6 DCIND 2.1/.59A N3496 | 10 | 136.07 | 25.2/8.26 | 12.8/14V | DC Index (BAY15d) |
| 720.934970 | 3497 | 12.8V-26.4W MINI T6 SC 2.20AMPS NO.3497 | 10 | 136.07 | 26.4 | 12V | SC Bayonet (BA 15s) |
| 720.365200 | 3652 | 13.5V-4.99W T3 1/4 WEDGE .37AMP N.3652 | 1 | 45.35 | 4.995 | 13.5V | Wedge (T 3 1/4) |
| 720.950080 | 5008 | 12V-10W MINI T6 SC .83 AMP NO.5008(R10W) | 10 | 90.71 | 10 | 12V | SC Bayonet (BA 15s) |
| 720.115710 | 1157A | 12.8/14V-26/8W AM SCDC IND 2.1/.59A N1157A | 10 | 181.43 | 26.88/8.26 | 12.8/14V | DC Index (BAY15d) |
| 720.115720 | 1157J | 12.8/14V-26/8W MINI S8 DC 2.1/.59A N1157 | 10 | 181.43 | 26.88/8.26 | 12.8/14V | DC Index (BAY15d) |
| 720.194100 | 194A | 14V-3.78W AMBER T3 1/4 WEDGE .27AMP 194A | 10 | 45.35 | 3.78 | 14V | Wedge (T 3 1/4) |
| 720.241000 | 24NA | 14V-3.36W AMBER T2 3/4 WEDGE 0.24A N24NA | 10 | 45.35 | 3.36 | 14V | Wedge (T2 3/4) |
| 720.315710 | 3157A | 12.8/14V-26/8W AMB S8DF WED 2/.59A 3157A | 10 | 136.07 | 26.88/8.26 | 12.8/14V | D.F. Plastic Wedge |
| 720.335720 | 3457NA | 12.8/14V-26/8W AM S8DF WED 2/.59A 3157NA | 10 | 136.07 | 28.16/8.26 | 12.8/14V | D.F. Plastic Wedge |
| 720.375700 | 3757NALL | 12.8/14V-26/8W AM S8DF WE 2/.59A 3157NALL | 10 | 136.07 | 26.88/8.26 | 12.8/14V | D.F. Plastic Wedge |
| 720.415720 | 4157NALL | 12.8/14-28/8W AM S8DF WED 2/.59A 4157NALL | 10 | 136.07 | 28.54/8.26 | 12.8/14V | D.F. Plastic Wedge |
| 720.957020 | 5702NAK | 12.8/14V-28/8W S8 WEDGE 2.2/.59A 5702NAK | 10 | 181.43 | 28.54/8.26 | 12.8/14V | D.F. Plastic Wedge |
| ACCESSORY BULBS | | | | | | | |
| 720.240000 | 24 | 14V-3.36W MINI T2 3/4 WEDGE .24AMP NO.24 | 10 | 45.35 | 3.36 | 14V | Wedge (T 2 3/4) |
| 720.370000 | 37 | 14V-1.26W MINI T1 3/4 WEDGE .09AMP NO.37 | 10 | 45.35 | 1.26 | 14V | Wedge (T1 3/4) |
| 720.530000 | 53 | 14V-1.728W MINI LAMP G3 1/2 .12AMP NO.53 | 10 | 90.71 | 1.728 | 14.4V | Miniature Bayonet (BA9s) |
| 720.570000 | 57 | 14V-3.36V MINI LAMP G4 1/2 .24AMP NO.57 | 10 | 90.71 | 3.36 | 14V | Miniature Bayonet (BA9s) |
| 720.670000 | 63 | 7V-4.41W MINI LAMP G6 SC .63AMP NO.63 | 10 | 90.71 | 4.41 | 7V | SC Bayonet (BA15s) |
| 720.670100 | 67 | 13.5V-7.97W MINI LAMP G6 SC .59AMP NO.67 | 10 | 90.71 | 7.97 | 13.5V | SC Bayonet (BA15s) |
| 720.730000 | 73 | 14V-1.12W MINI T1 3/4 WEDGE .08AMP NO.70 | 10 | 45.35 | 1.12 | 14V | Wedge (T 1 3/4) |
| 720.740000 | 74 | 14V-1.4W MINI T1 3/4 WEDGE .1AMP NO.74 | 10 | 45.35 | 1.4 | 14V | Wedge (T 1 3/4) |
| 720.891000 | 89 | 13V-7.54W MINI LAMP G6 SC 0.58AMP NO.89 | 10 | 90.71 | 7.54 | 13V | SC Bayonet (BA15s) |
| 720.900000 | 90 | 13V-7.54W MINI LAMP G6 DC 0.58AMP NO.90 | 10 | 90.71 | 7.54 | 13V | DC Bayonet (BA15d) |
| 720.930000 | 93 | 12.8V-13.312W MINI S8 GC 1.04AMP NO.93 | 10 | 181.43 | 13.312 | 12.8V | SC Bayonet (BA15s) |
| 720.970000 | 97 | 13.5V-9.3W MINI LAMP G6 SC .69AMP NO.97 | 10 | 90.71 | 9.3 | 13.5V | SC Bayonet (BA15s) |
| 720.158000 | 158 | 14V-3.36W MINI T3 1/2 WEDGE .24AMP N.158 | 10 | 45.35 | 3.36 | 14V | Wedge (T 3 1/4) |
| 720.168000 | 168 | 14V-4.9W MINI T3 1/4 WEDGE .35AMP NO.168 | 10 | 45.35 | 4.9 | 14V | Wedge (T 3 1/4) |
| 720.194000 | 194 | 14V-3.78W MINI T3 1/4 WEDGE .27AMP N.194 | 10 | 45.35 | 3.78 | 14V | Wedge (T 3 1/4) |
| 720.561000 | 561 | 12.8V-12.416W MINI T3 RIG LOP .97A N.561 | 10 | 90.71 | 12.416 | 12.8V | Rigid Loop |
| 720.904000 | 904 | 13.5V-9.315W MINI T5 WEDGE .69AMP N.904 | 10 | 90.71 | 9.315 | 13.5V | Wedge T5 |
| 720.906000 | 906 | 13.5W-9.315W MINI T5 WEDGE .69AMP NO.906 | 10 | 90.71 | 9.315 | 13.5V | Wedge T5 |
| 720.912000 | 912 | 12.8V-12.8W MINI T5 WEDGE 1.00AMP NO.912 | 10 | 90.71 | 12.8 | 12.8V | Wedge T5 |
| 720.920000 | 920 | 12.8V-15.36W MINI T5 WEDGE 1.20AMP N.920 | 10 | 90.71 | 15.36 | 12.8V | Wedge T5 |
| 720.107600 | 1076 | 12.8V-23W MINI LAMP S8 DC 1.80 AMP NO.1076 | 10 | 181.43 | 23.04 | 12.8V | DC Bayonet (BA15d) |
| 720.181600 | 1816 | 13V-4.29W MINI LAMP T3 1/4 .33AMP N.1816 | 10 | 45.35 | 4.29 | 13V | Miniature Bayonet (BA9s) |
| 720.186600 | 1866 | 6.3V-1.575W MINI T3 1/4 M .25AMP NO.1866 | 10 | 45.35 | 1.575 | 6.3V | Miniature Bayonet (BA9s) |
| 720.189100 | 1891 | 14V-3.36W MINI T3 1/4 M .24AMP NO.1891 | 10 | 45.35 | 3.36 | 14V | Miniature Bayonet (BA9s) |
| 720.918930 | 1893 | 14V-4.62W MINI LAMP T3 1/4 .33AMP N.1893 | 10 | 45.35 | 4.62 | 14V | Miniature Bayonet (BA9s) |
| 720.189500 | 1895 | 14V-3.78W MINI LAMP G4 1/2 .27AMP N.1895 | 10 | 45.35 | 3.78 | 14V | Miniature Bayonet (BA9s) |
| 720.203300 | 2033 | 13.5V-3W MINI LAMP T2 1/2 .22AMP NO.2033 | 1 | 45.35 | 3 | 13.5V | Printed Circuit |

BULB DESCRIPTIONS

| Article Number | Bulb Number | Article Description | Pack Size | Product Weight (grams per item) | Power Rating | Nominal Voltage | Socket Designation |
|------------------------------------|-------------|---|-----------|---------------------------------|--------------|-----------------|--------------------------|
| ACCESSORY BULBS - CONTINUED | | | | | | | |
| 720.928210 | 2821 | 12V-3W MINI T3 1/4 WEDG .25A N.2821(W3W) | 10 | 45.35 | 3 | 12V | Wedge T 3 1/4 |
| 720.930210 | 3021 | 12V-3W MINI T2 1/2 FESTOON.25 AM N.3021 | 10 | 45.35 | 3 | 12V | Festoon Cap |
| 720.930220 | 3022 | 13V-5W T2 1/4 FESSTOON CAP .38A N.3022 | 10 | 45.35 | 5 | 13V | Festoon Cap |
| 720.931750 | 3175 | 12V-10W MINI T3 FESTOON .83AMP NO.3175 | 10 | 45.35 | 10 | 12V | Festoon Cap |
| 720.938930 | 3893 | 12V-4W MINI LAMP T2 3/4 BA9 .36AM N.3893 | 10 | 45.35 | 4 | 12V | Miniature Bayonet (BA9s) |
| 720.938980 | 3898 | 12V-2.04W MINI LAMP T2 .17AMP NO.3898 | 10 | 45.35 | 2.04 | 12V | BA7s |
| 720.205710 | 2057A | 12.8/14V-26/6W S8 DCIND AMB 2/.48A N2057A | 10 | 18.14 | 26.88/6.72 | 12.8/14V | DC Index (BAY15d) |
| 720.211000 | 211-2 | 12.8V-12.416W T3 D END CAP .97A N.211-2 | 10 | 90.71 | 12.416 | 12.8V | Miniature Cap |
| 720.235719 | 2357A | 12.8/14V-26/6W S8 DCIND AM 2/.59 N2357A | 10 | 181.43 | 28.16/8.26 | 12.8/14V | DC Index (BAY15d) |
| 720.272111 | 2721MF | 12V-1.2W T1 1/2 W/SOCKET .1AMP N.2721MF | 10 | 45.35 | 1.2 | 12V | T 1 1/2 Socket |
| 720.305710 | 3057A | 12.8/14V-26/6W S8 DF WE AM 2/.48A N3057A | 10 | 136.07 | 26.88/6.72 | 12.8/14V | DF Plastic Wedge |
| OTHER BULBS | | | | | | | |
| 720.94656 | H4656 | 12V-35/35W HALOGEN HIGH/LOW BEAM N.H4656 | 1 | 748.42 | 35/35 | 12.8 | TYPE 2A1 |
| 720.96054 | H6054 | 12V-65/35W HALOGEN HIGH/LOW BEAM N.H6054 | 1 | 830.07 | 60/35 | 12.8 | TYPE 2B1 |
| 720.94651 | H4651 | 12V-50W HALOGEN SEALED BEAM NO.H4651 | 1 | 226.79 | 50 | 12.8 | TYPE 1A1 |
| 720.92827 | 2827 | 12V-4.8W WEDGE T3-1/4 0.40AMP NO.2827 | 10 | 31.75 | 4.8 | 12 | Wedge T3 1/4 |
| 720.91638 | 1638 | 28V-28W MINI S8 DC BA15d 1.02AMP.N.1638 | 1 | 136.07 | 28.56 | 28 | D.C Bayonet (BA15d) |
| 720.91203 | 1203 | 28V-19W MINI S8 SC BAY 0.71AMP.N.1203 | 10 | 136.07 | 19.88 | 28 | S.C Bayonet (BA15s) |
| 720.91662 | 1662 | 28V-25W MIN S8 DC INDBAY15d .9AMP.N.1662 | 10 | 136.07 | 25.2/9.52 | 28/28 | D.C Index (BAY15d) |
| 720.91638 | 1638 | 28V-28W MINI S8 SC BA15s 1.02AMP.NO.1683 | 1 | 136.07 | 28.56 | 28 | S.C. Bayonet (BA15s) |
| 720.91525 | 1252 | 28V-6W MINI G6 DC BAY 0.23AMP.NO.1252 | 10 | 136.07 | 6.44 | 28 | D.C. Bayonet (BA15d) |
| 720.91873 | 1873 | 28V-5W MINI T3 1/4 MBAY-0.20AMP.N.1873 | 10 | 45.35 | 5.6 | 28 | Mini Bayonet (BA9s) |
| 720.92741 | 2741MF | 24V-1.2W MIN T1 1/2 W/SCK .05AMP-N2741MF | 10 | 45.35 | 1.2 | 24 | T1 1/2 Socket |
| 720.91424 | H3 70W/24V | 24V-70W HALO T3 1/4 PK22s-2.92A-N.H3 70W | 1 | 9.071 | 84 | 28 | PK22s |
| 720.191001 | RSB50 | 130V-50W A19 IF, RSB50 ROUGH SER BULB | 6 | 225 | 50 | 130 | A-19 |
| 720.191003 | RSB100 | 130V-100W A19 IF, RSB100 ROUGH SER BULB | 6 | 225 | 50 | 130 | A-19 |

LED LAMPS



Advantages of LED Technology

- Long service life, as maintenance-free
- No bulb change necessary
- Very low power consumption
- Hermetically sealed
- Resists road dirt, dust and moisture
- Solid state circuit boards
- LEDs provide 100,000 hour lifetime rating
- Meets or exceeds DOT FMVSS 108 & MOT CMVSS108
- Will fit Grote grommets

Oval LED lamps

- Polycarbonate body and lens
- Zinc plated steel contacts
- Epoxy encapsulated circuit board

Grommets: 812.420244 open back or 812.420245 closed back

Pigtails: 812.420251 & 812.420250 right angle plug

| LED Colour | Lens Colour | # of Diodes | Dimensions L x W x H | Mounting Clearance | Function | Voltage | Amp Draw | SAE | Art. No. | Qty. |
|------------|-------------|-------------|------------------------|--------------------|------------------------|---------|----------------|--------|-------------------|------|
| Amber | Amber | 10 | 6-1/2 x 2-1/4 x 1-1/8" | 1-7/8" Depth | Signal/ Park | 12 V | 30 mA - 210 mA | I6P | 812.420232 | 1 |
| Red | Red | | | | Stop/ Turn/ Tail | | 20 mA - 110 mA | S2T2I6 | 812.420231 | |
| Clear | Clear | | | | Back-up | | 18 mA | R2 | 812.420233 | |
| Amber | Amber | 24 | 6 1/2 x 2 1/4 x 1" | | Turn/ Tail/ Park | | 10 mA - 160 mA | IP | 812.120228 | |
| Red | Red | | | | Stop/ Turn/ Tail/ Park | | 10 mA - 200 mA | STIP | 812.120229 | |
| Clear | Clear | | | | Back-up | | 90 mA | R2 | 812.420234 | |
| Red | Clear | 10 | 6-1/2 x 2-1/4 x 1-1/8" | | Stop/ Turn/ Tail | | 20 mA - 110 mA | S2T2I6 | 812.461040 | |
| Amber | | 24 | 6 1/2 x 2 1/4 x 1" | | Turn/ Tail/ Park | | 10 mA - 160 mA | IP | 812.461031 | |
| Red | | 24 | 6 1/2 x 2 1/4 x 1" | | Stop/ Turn/ Tail/ Park | | 10 mA - 170 mA | STIP | 812.461030 | |

LED LAMPS



Round LED Lamps

- Polycarbonate body and lens
- Zinc plated steel contacts
- Epoxy coated circuit board

Grommets: 812.420246 open back or 812.420247 closed back

Pigtails: 812.420251 straight plug or 812.420250 right angle plug

| LED Colour | Lens Colour | # of Diodes | Dimensions | Mounting Clearance | Function | Voltage | Amp Draw | SAE | Art. No | Qty. |
|------------|-------------|-------------|--------------------|--------------------|------------------|--------------|---------------|-------------------|-------------------|------|
| Amber | Amber | 10 | 4-1/4" ø 7/8" H | 1-7/8" Depth | Signal/ Park | 12 V | 36 mA/290 mA | I6P | 812.420225 | 1 |
| Red | Red | | | | Stop/ Turn/ Tail | | 22 mA/147 mA | S2T2I6 | 812.420226 | |
| Clear | Clear | | | | Back-up | | 0.29 | R2 | 812.420227 | |
| Amber | Amber | 24 | 4-1/4" ø 1" H | 1-3/8" Depth | Signal/ Park | 12 V | 23 mA /400 mA | IP | 812.420223 | 1 |
| Red | Red | | | | Stop/ Turn/ Tail | | 18 mA/272 mA | STI | 812.420224 | |
| Clear | Clear | | | | Back-up | | 0.23 AMP | IP | 812.420220 | |
| Red | Clear | 24 | 4-1/4" x 1" H | 1-3/8" Depth | Stop/ Turn/ Tail | 18 mA/212 mA | STI | 812.461011 | | |

LED LAMPS WITH SILVER SURFACE MOUNT



Advantages of LED Technology

- Long service life, as maintenance-free
- No bulb change necessary
- Very low power consumption
- Hermetically sealed
- Resists road dirt, dust and moisture
- Solid state circuit boards
- LEDs provide 100,000 hour lifetime rating
- Meets or exceeds DOT FMVSS 108
- Will fit Grote grommets

Oval LED lamps

- Polycarbonate body and lens
- Zinc plated steel contacts
- Epoxy encapsulated circuit board

Surface mount installation eliminates the need to cut mounting hole and does not require grommets & pigtails.

| LED Colour | # of Diodes | Dimensions L x W x H | Mounting Hole Size | Mounting Centre | Function | Voltage | Amp Draw | SAE | Art. No. | Qty. |
|-------------------------|-------------|--------------------------|--------------------|-----------------|----------------|---------|----------------|-----|------------|------|
| Amber with Chrome Bezel | 10 | 7-9/16" x 3-5/16" x 7/8" | 3/16" | 6-11/16" | Signal/Park | 12V | 26 mA / 217 mA | 16P | 812.461051 | 1 |
| Red with Chrome Bezel | | | | 2-11/16" | Stop/Turn/Tail | | 29 mA / 119 mA | | | |

ROUND LED CLEARANCE MARKER LAMPS



- Polycarbonate body and lens
- Zinc plated steel contacts
- Epoxy encapsulated circuit board
- * Epoxy coated circuit board

| LED Colour | # of Diodes | Dimensions | Function | Voltage | Amp Draw | SAE | Art. No. | Qty. | | | | | |
|-----------------------|-----------------|--------------|------------------|---------|------------------|-----|------------------|------|------|----------|----|--------------|---|
| Amber | 4 | 2" ø 1" H | Clearance Marker | 12 V | 92.6 mA | P2 | 812.420208 * | 1 | | | | | |
| Red | | | | | 90.7 mA | | 812.420207 * | | | | | | |
| Amber | 10 Star Pattern | | | | 90.7 mA | | 812.420206 | | | | | | |
| Red | | | | | 90.7 mA | | 812.420205 | | | | | | |
| Amber with clear lens | 10 | | | | 90.7 mA | | 812.420195 | | | | | | |
| Red with clear lens | | | | | 90.7 mA | | 812.420198 | | | | | | |
| Amber | 4 | | | | 2-1/2" ø 1" H | | Clearance Marker | | 12 V | 87.3 mA | P2 | 812.420204 * | 1 |
| Red | | | | | | | | | | 89.5 mA | | 812.420203 * | |
| Amber | 13 Star Pattern | | | | | | | | | 107.7 mA | | 812.420202 | |
| Red | | | | | | | | | | 107.7 mA | | 812.420201 | |

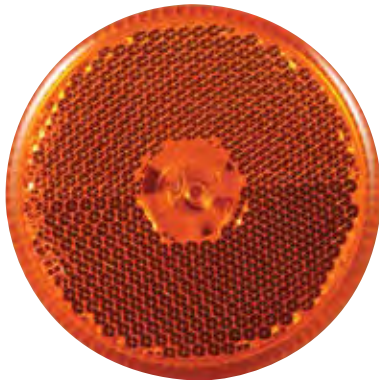
SEALED LAMPS WITH DECORATIVE CHROME BEZELS



- LED lamps with chrome on ABS bezels and 2 wires
- Surface mount installation without grommet & pigtails
- Hard wired contacts
- Polycarbonate lens and body
- Epoxy coated circuit board

| LED Colour | # of Diodes | Dimensions L x W x H | Mounting | Function | Voltage | Amp Draw | SAE | Art. No. | Qty. |
|------------|-------------|----------------------|-----------|------------------|---------|----------|-----|------------|------|
| Amber | 6 | 6-5/8 x 2-1/8 x 7/8" | 4" centre | Clearance marker | 12 V | 89.6 mA | P2 | 812.420222 | 1 |
| Red | | | | | | 88.5 mA | | 812.420221 | |

LED CLEARANCE MARKER LAMPS - REFLECTIVE



- Contacts: Zinc plated steel
- Epoxy encapsulated circuit board
- Polycarbonate lens & body

| Colour | # of Diodes | Dimensions | Function | Voltage | Amp Draw | SAE | Art. No. | Qty. |
|--------|-------------|------------|-----------------------------|---------|----------|-----|-------------------|------|
| Amber | 4 | 2-1/2" ø | Clearance marker/ reflector | 12 V | 107.7 mA | AP2 | 812.420252 | 1 |
| Red | | 3/4" depth | | | 63.2 mA | | 812.420253 | |

LED MARKER LAMPS



4 Diode Series

- Come with base mount, hotwire and built-in ground.
- Quick installation without pigtail.
- Polycarbonate lens and body.
- Epoxy encapsulated circuit board.
- Zinc plated steel contacts.
- 12V applications.

| Dimensions (LxWxH) | Colour | Super Flux diodes | Function | Amp draw | SAE | Art. No. | Qty. |
|--------------------|--------|-------------------|------------------|----------|------|-------------------|------|
| 4" x 1-1/2" x 7/8" | Red | 4 | Clearance marker | 0.07 Amp | P2PC | 812.420717 | 1 |
| | Amber | | | | | 812.420866 | |

* Alternatives to 12-diode marker lamps 812.420254 and 812.42055.

LED LICENSE LAMP



- Lens: PMMA
- Body: ABS
- Contacts: Hard wired
- Circuit board: epoxy coated

| Colour | # of Diodes | Dimensions | Mounting | Function | Voltage | Amp Draw | SAE | Art. No. | Qty. |
|--------|-------------|--------------------|-----------|----------|---------|----------|-----|-------------------|------|
| White | 12 | 4 x 1 7/8 x 2 1/8" | 2" centre | License | 12 V | 165.9 mA | L | 812.420210 | 1 |

MID-TURN SIGNAL LAMP



- Contacts: Zinc plated steel
- Circuit board: epoxy coated
- Polycarbonate lens & body

| Colour | # of Diodes | Dimensions L x W x D | Mounting Clearance | Function | Voltage | Amp Draw | SAE | Art. No. | Qty. |
|--------|-------------|------------------------|--------------------|--------------------------------------|---------|----------------|-------|-------------------|------|
| Amber | 9 | 6 1/2 x 2 1/2 x 2 3/4" | 2 3/4" depth | Mid-turn reflector, Clearance marker | 12 V | 87 mA / 157 mA | AE2P2 | 812.420230 | 1 |

MOUNTING ACCESSORIES



Contact Pigtails

- Zinc plated copper contacts

| Description | Style | Length | Wire Gauge | End | Art. No. | Qty. |
|----------------------|------------------------|--------|------------|---------------------|-------------------|------|
| Right PVC Angle Plug | Double Contact Pigtail | 9" | 16 GA | 1 #10 Ring Terminal | 812.420250 | 10 |
| Straight PVC Plug | | | | | 812.420251 | |
| Right PVC Angle Plug | Single Contact Pigtail | 6" | | | 812.420249 | |



PVC Grommets

| Style | For lamp size | Type | Dimensions | Sugg. Hole. Dim. | Art. No. | Qty. |
|-------|---------------|-------------|--------------------|--------------------|-------------------|------|
| Round | 4" | Open back | 5 1/4" ø | 4 1/2" ø | 812.420246 | 10 |
| | | Closed back | | | 812.420247 | |
| | 2.5" | Open back | 3 3/8" ø | 2 25/32" ø | 812.420240 | |
| | | Closed back | | | 812.420241 | |
| | 2" | Open back | 2 7/8" ø | 2 5/16" ø | 812.420242 | |
| | | Closed back | | | 812.420243 | |
| Oval | N/A | Open back | 7 3/8 L x 3 1/8" W | 6 1/2 L x 2 1/2" W | 812.420244 | |
| | | Closed back | | | 812.420245 | |

INCANDESCENT SEALED LAMPS



Round sealed lamps

- Polycarbonate lens and body.
- Hermetically sealed to resist road dirt, dust and moisture.
- Zinc plated steel contacts.
- Contacts are compatible with industry standard pigtails.
- Meets all DOT FMVSS108 & MOT CMVSS108 safety standards.
- 12V applications.

| Description | Dimensions (Dia. x H) | Colour | Function | Amp draw | SAE | Grommet | Pigtail | Art. No. | Qty. |
|-----------------------------------|-----------------------|--------|--|--------------|--------|---------|---------|-------------------|------|
| Round sealed | 2" x 3/4" | Amber | Clearance marker | 0.35 Amp | P2 | • • | • | 812.420862 | 1 |
| Round sealed | | Red | Clearance marker | 0.35 Amp | P2 | • • | • | 812.420714 | |
| Round sealed | 2-1/2" x 3/4" | Amber | Clearance marker | 0.35 Amp | P2 | • • | • | 812.420863 | |
| Round sealed | | Red | Clearance marker | 0.35 Amp | P2 | • • | • | 812.420715 | |
| Round sealed with reflective lens | | Amber | Clearance marker/reflector | 0.35 Amp | AP2 | • • | • | 812.420861 | |
| Round sealed with reflective lens | | Red | Clearance marker/reflector | 0.35 Amp | AP2 | • • | • | 812.420713 | |
| Round sealed, shock mounted | 4-1/4" x 2" | Amber | Signal/park | 0.6-2.5 Amps | IP | • • | • • | 812.420710 | |
| Round sealed, shock mounted | | Red | Stop/turn/tail/park | 0.6-2.5 Amps | STIP | • • | • • | 812.420711 | |
| Round sealed with reflective lens | | Red | Stop/turn/tail/rear reflector/clearance marker | 0.6/2.5 Amps | AIP2ST | • • | • • | 812.420865 | |
| Round back up lamp | | White | Back-up | 2.2 Amps | R | • • | • • | 812.420660 | |

• • • Refer to legend below

Oval sealed lamps



- Polycarbonate lens and body.
- Hermetically sealed to resist road dirt, dust and moisture.
- Zinc plated steel contacts.
- Meets all DOT FMVSS108 & MOT CMVSS108 safety standards.
- 12V applications.

| Dimensions (LxWxH) | Colour | Function | Amp draw | SAE | Grommet | Pigtail | Art. No. | Qty. |
|--------------------------|--------|---------------------|--------------|--------|---------|---------|-------------------|------|
| 6-1/2" x 2-1/4" x 2-3/8" | Amber | Signal/park | 0.6/2.5 Amps | STIPP2 | • • | • • | 812.420860 | 1 |
| | Red | Stop/turn/tail/park | 0.6/2.5 Amps | STIPP2 | • • | • • | 812.420712 | |
| | White | Back up | 2.22 Amps | R | • • | • • | 812.420650 | |

• • • Refer to legend below

| Accessories Guide | | | | |
|-------------------|----------------|-------------------|-------------------|-------------|
| Grommets | | | | |
| Style | Lamp Size | Type | Art. No. | Colour Code |
| Round | 2" | Open back | 812.420242 | • |
| | 2" | Closed back | 812.420243 | • |
| | 2.5" | Open back | 812.420240 | • |
| | 2.5" | Closed back | 812.420241 | • |
| | 4" | Open back | 812.420246 | • |
| | 4" | Closed back | 812.420247 | • |
| Oval | | Open back | 812.420244 | • |
| | | Closed back | 812.420245 | • |
| Pigtails | | | | |
| Description | Style | Art. No. | Colour code | |
| Right angle plug | Double contact | 812.420250 | • | |
| Straight plug | Double contact | 812.420251 | • | |
| Right angle plug | Single contact | 812.42049 | • | |

INCANDESCENT SEALED LAMPS



| Dimensions (LxWxH) | Colour | Function | Amp draw | SAE | Art. No. | Qty. |
|--------------------|--------|------------------|----------|------|-------------------|------|
| 4" x 1-1/4" x 7/8" | Amber | Clearance marker | 0.7 Amp | P2PC | 812.420864 | 1 |
| 4" x 1-1/4" x 7/8" | Red | Clearance marker | 0.7 Amp | P2PC | 812.420716 | |

1" x 4" Sealed lamps

- Come with base mount, hotwire and built-in ground.
- Quick installation without pigtail.
- Polycarbonate lens and body.
- Hermetically sealed to resist road dirt, dust and moisture.
- Zinc plated steel contacts.
- Meets all DOT FMVSS108 & MOT CMVSS108 safety standards.
- 12V applications.

INCANDESCENT LICENSE LAMPS



In polycarbonate housing

- License lamp kit with sealed lamp and pigtail.
- Polycarbonate lens and body (gray).
- Zinc plated steel contacts.
- Pigtail: Right PVS angle plus with 16 GA wire.
- Mounting: 2" centre.
- 12V applications.

| Dimensions (LxWxH) | Function | Amp draw | SAE | Art. No. | Qty. |
|--------------------------|----------|----------|-----|-------------------|------|
| 3-1/2" x 2-1/2" x 2-1/4" | License | 0.35 Amp | L | 812.420610 | 1 |



Chrome plated steel housing

- Mounting: 2" centre.
- 12V applications.

| Dimensions (LxWxH) | Function | Amp draw | SAE | Art. No. | P. Qty. | Replacement bulb | Qty. |
|----------------------|----------|----------|-----|-------------------|---------|----------------------------|------|
| 2-3/4" x 1-1/2" x 2" | License | 0.6 Amp | L | 812.420611 | 1 | Art. No. 720.670100 | 10 |

INCANDESCENT BULLSEYE MARKER LAMPS



In polycarbonate housing

- High impact molded bodies with replaceable snap-on lens.
- Meet all FMVSS108 DOT and MOT CMVSS108 safety standards.
- White ABS body.
- Acrylic lens.
- Mounting: 3" centre.
- 12V applications.

| Dimensions (LxWxH) | Colour | Function | Amp draw | SAE | Art. No. | Qty. | Replacement lens | Qty. | Replacement bulb | Qty. |
|--------------------|--------|------------------|----------|-----|-------------------|------|-------------------|------|-------------------|------|
| 4" x 2" x 1" | Amber | Clearance marker | 0.7 Amp | P3 | 812.420869 | 1 | | 1 | 720.194000 | 10 |
| 4" x 2" x 1" | Red | Clearance marker | 0.7 Amp | P3 | 812.420720 | 1 | 812.420721 | 1 | 720.194000 | 10 |

RUBBER-LIKE WORK LAMPS



Sealed beam with housing work lamp

- Work lamp housing made from high-impact synthetic rubber-like resin.
- These have the feel and shock absorbing characteristics of rubber but are UV resistant (colour will not fade or crack) and stand up to road contaminants that deteriorate rubber lamp housings.
- Mounting hardware is steel with zinc plating.
- 12V application.

| Dia. | Dimensions (height x depth) | Mounting stud size | Function | Light Pattern | Watts | Candlepower | Art. No. | Qty. |
|------|-----------------------------|--------------------|--------------------|---------------|-------|-------------|-------------------|------|
| 5" | 5-7/8" H x 3" D | 5/16" | Off-road work lamp | Trap/Work* | 35 | 3000 | 812.450201 | 1 |

* In a trap/work design, light is dispersed in a trapezoidal shape, unlike a spotlight

HALOGEN WORK LAMP



Double halogen bulb work lamp

- Work lamp housings are made from rugged high-impact nylon housing.
- Twin replaceable halogen high output bulbs (H3).
- Operates with one or two bulbs lit.
- Bracket is powder-coated steel with adjustable mounting hardware.
- 12V applications.

Recommended:
Replacement Bulb **Art. No. 720.641510**

| Dimensions (LxWxH) | Mounting stud size | Function | Light Pattern | Watts | Art. No. | Qty. |
|--------------------------|--------------------|--------------------|---------------|--------------------|-------------------|------|
| 6-1/4" x 4-3/4" x 4-1/8" | 10 mm | Off-road work lamp | Flood | 110 (2 @ 55 W ea.) | 812.450200 | 1 |

LED WORK LAMP



Work lamp with high output LEDs

- High light output with 8 high output LED diodes.
- Low amp draw.
- Emits clear white light, with an optimum working distance up to 300 ft.
- Stylish compact aluminum housing with black powder coating, polycarbonate lens and stainless steel adjustable mounting hardware.
- Epoxy encapsulated circuit board.
- 9V-36V applications.
- 840 Lumens/5600 CP

| Dimensions (LxWxH) | Mounting stud size | Function | High output diodes | Amp draw | Art. No. | Qty. |
|--------------------------|--------------------|--------------------|--------------------|----------|-------------------|------|
| 4-3/8" x 4-7/8" x 1-7/8" | 5/16" | Off-road work lamp | 8 | 0.8 Amp | 812.450400 | 1 |

LED POCKET LIGHT



Art. No. 827.500071

Features:

- COB (circuit on board) LED lighting system
- Magnetic base for convenient positioning
- Batteries Included
- Pocket clip for easy access
- Durable plastic housing with weather resistant button

Technical Data

| | |
|---------------|-------------------------------------|
| Light source | COB LED |
| Battery | 3 AAA alkaline batteries (included) |
| Light out-put | 150 lumens |
| Run time | Up to 7 hours |

UV LED POCKET LIGHT



Art. No. 827.500072

UV LED Lamp for Leak Detection

Features:

- COB (circuit on board) LED lighting system
- Magnetic base for convenient positioning
- Batteries Included
- Pocket clip for easy access
- Durable plastic ABS housing with weather resistant button

Benefits:

- Works with all types of UV leak detection dyes
- Convenient pocket size
- Compact design easily gets into tight, cramped spaces

| Technical Data | |
|----------------|-------------------------------------|
| Light Source | 1.5W COB LED 100,000hr COB lifespan |
| Battery | 3 AAA Alkaline batteries (included) |
| Light Output | 440 - 450 nm UV |
| Run Time | Up to 24 hours |

EXTENDABLE U/V POCKET LIGHT



Art. No. 764.1

- High powered (395 nm peak, 400 nm dominate) true U/V LED.
- Rated for over 50,000 hours of use.
- Perfect for close-up inspections.
- Pocket sized, extendable (5.51 ~ 7.09 inches).
- Includes adjustable service mirror for those hard to see areas.

ERGO POWER POCKET PEN LIGHT



Art. No. 827.500023

Rechargeable LED Pen Light

Features:

- Exclusive Würth design
- Durable aluminum slim housing design
- 6 + 1 COB LED light
- High power flood and spot light options
- Rechargeable with Micro USB
- Strong magnet on pocket clip

Benefits:

- Extremely high output and intensity
- Wide flood light angle
- Better visibility and coverage
- Longer-lasting rechargeable battery
- Convenient and easy to use

| Technical Data | |
|--------------------------------------|--|
| Main Light | 150 lumen |
| Spot Light | 70 lumen |
| Bulb: Main Light | 5W COB LED, 6000K, CRI=70 |
| Bulb: Spot Light | 1W LED, 6000K, CRI=70 |
| Battery | 3.7V, 800 mAh Li-ion |
| Switch Mode | Top light – Main light – OFF |
| Operation/Storage Temperature | -10° to +40°C |
| Charging Time | Approx. 2.5 hrs |
| Discharging Time | Approx. 3 hrs (main light); Approx. 6 hrs (spot light) |

ERGLIGHT MINI



Art. No. 827.940370

Durable Mini Rechargeable Work Light

Features:

- Exclusive Würth design
- 2 component housing with rubber grip
- Strong magnet base
- Adjustable working base
- 4 front COB LED light + 1 power LED spot light
- 360 degree rotatable hook for hanging convenience
- Wrist strap
- Rechargeable with Micro USB

Benefits:

- Extremely high output and intensity
- Wide flood light angle
- Better visibility and coverage
- Longer-lasting rechargeable battery
- Convenient and easy to use

| Technical Data | | |
|--------------------------------------|--|-----------|
| Main Light | Luminous flux | 250 lumen |
| | Light intensity @ 0.5 meter | 1300 lux |
| Spot Light | Light intensity @ 0.5 meter | 1500 lux |
| Battery | Polymer Lithium 1200mAh | |
| Illumination Angle | 180° | |
| Charing Time | Approx. 3.5 hrs | |
| Discharging Time | Approx. 4 hrs (main light); Approx. 2.5 hrs (Spot Light) | |
| Operation/Storage Temperature | - 10 ° – +40 °C | |
| Grade of Protection | IP20 | |

ERGO POWER BOOST

Art. No. 827.940451 - P. Qty. 1

Rechargeable Powerful Hand Light

Features:

- Exclusive Würth design
- 1000 Lumens at boost mode
- 8+ 1 COB LED lights
- 150 Lumen Spot light with real flash light effect
- Rechargeable with USB
- 3 Strong magnets
- USB cable, AC adapter & car adapter included.

Benefits:

- Extremely high output and intensity
- Wide flood light angle
- Better visibility and coverage
- Flashlight function
- Longer-lasting rechargeable battery
- Convenient and easy to use

| Technical Data | |
|-------------------------------|---|
| Main light | 500 lumen |
| Boost light | 1000 lumen |
| Spot light | 150 lumen |
| Battery | 3.6V, 4200 mAh Li-ion |
| Switch mode | Top light - Main light - OFF |
| Operation/Storage temperature | -10° to +40°c |
| Charging time | approx. 2.5 hrs |
| Discharging time | approx. 3 hrs (main light); approx : 6 hrs (Spot Light) |
| Protection Class | IP65 |
| Weight | 450g |



ERGO POWER ENGINE HOOD LIGHT

Art. No. 827.940751

LED Engine Hood Light

Features:

- Suitable for hoods 110 -190 cm wide
- 63 LED's, 10 W
- Two different light levels
- Battery charging status
- Latest lithium-ion battery technology
- Short charging time
- Long light duration



ERGO POWER WORK LAMP MINI 10W



Art. No. 981.504148

Small powerful rechargeable LED work light.

Features:

- COB LED light source
- Two light modes
- Strong magnets at stand

Informations techniques:

| | |
|----------------------------|----------------|
| Flux lumineux (élevé) | 1000 lm |
| Flux lumineux (faible) | 500 lm |
| Période lumineuse (élevée) | 6 h |
| Période lumineuse (faible) | 3 h |
| Tension nominale | 5V/DC |
| Batterie rechargeable | Li-Poly |

RECHARGEABLE LED HEAD LAMP ERGOPOWER SENSOR



Art. No. 827.809635

Battery-powered LED headlamp Ergopower Sensor

**Super bright light emitting surface:
60 degree lighting:**

- Adjustable back bracket up and down within 60 degrees

Equipped with two switches:

- Standard on/off switch - Step 1. half light intensity, Step 2. full light intensity
- Sensor switch - Motion sensor (with hand movements) up to 5 cm distance to the lamp

Protection Class IP65

- Impact resistance IK07
- Dust-tight protection

Headband with integrated anti-slip rubber strip:

- Provides a better grip

Supplied with Micro-USB

Application area:

- Highly specialised light for vehicle repair use, paint matching and recreation purposes
- Can also be used for inspecting paintwork after polishing, polish holograms, scratches and dents

| Technical Information: | |
|---------------------------------------|------------------------|
| Min. colour rendering index (CRI) | 80 |
| Min./max. luminous flux | 100/280 lm |
| Colour temperature | 650 K |
| Min./max. luminous period | 2-5.5 h |
| Charging time | 2.5 h |
| Power rating | 3 W |
| IP protection class | IP 65 |
| Type of rechargeable battery/battery | Lithium polymer |
| Nominal voltage | 5 V/DC |
| Rechargeable battery/battery capacity | 1500 mAh |
| Connection type | USB |
| | Micro-USB |

WÜRTH TACTICAL FLASH LIGHT



Powerful, Rugged, Dual LED Tactical Flashlight

The Würth Tactical Flashlight is a dual LED flashlight. It combines a powerful spot light for long distance and a wide angle flood light for close range area lighting. These two LED's increase your overall visibility.

Benefits:

- The WTL can be used for a wide array of activities including camping, hunting, hiking, police, military, workshop repair, and daily use.
- It eliminates the tunnel vision you get with a traditional flashlight and allows you to utilize your peripheral vision.
- The broader range of light greatly increases your field of view by illuminating objects, or even dangerous situations, that otherwise would have been left in the shadows.

Features:

- Spotlight & wide angle flood/area light
- 6 Modes - including strobe & S.O.S
- Tactical grip and tap to change tail switch
- Made from aircraft-grade aluminum
- Long-lasting hard anodized anti-abrasive finish
- Reverse polarity protection - guards against improper battery installation
- Tactical style bludgeon tip for self-defense
- Waterproof design
- Pocket clip included
- Anti-roll body design
- Deep knurling for proper gripping

| Description | Length | Head Size | Body Diameter | Weight | Lumens | Battery | Battery Life | Modes | Art. No. | P. Qty. |
|--------------------------|--------|-----------|---------------|-----------------------------|-------------|--|--------------|---|-------------------|---------|
| 4.0 Würth Tactical Light | 129 mm | 35 mm | 30 mm | 113 g (battery excluded) | 400 on high | AAA (3) | 10 Hours | <ul style="list-style-type: none"> • Spot/flood light • Spot high • Flood high • Flood low • Strobe • S.O.S | 827.559140 | 1 |
| 8.0 Würth Tactical Light | | | | | 800 on high | AAA (3) + mAh 18650 rechargeable Li-ion battery & sleeve | 11 Hours | | 827.559180 | |

RECHARGEABLE METAL LED FLASHLIGHT



Art. No. 827.805300

Extremely light-weight, aircraft aluminum LED flashlight with adjustable focusing options.

Applications:

- With CREE P4 1-watt high performance LED
- One-hand sliding carriage focusing mechanism
- Lithium battery pack, 2200 MAH, 3.7V
- Charging with 110 V power supply unit or 12-24 V DC adaptor
- Microcontroller-controlled charging technology
- Charging time for fully drained battery is approx. 4 h
- Lighting duration of up to 12 h (lamp brightness does not begin to slowly decrease until after approx. 4 h)
- Protection against water and dust, IP X6
- Overcharging protection
- Multifunction light beam: High-light → Low-light → Flash → SOS
- Dimension: 35mm × 157mm
- Weight: about 200 g

Package contents:

- 1 × battery pack, 1 × user manual
- 1 × metal torch with 1-watt high-performance LED
- 1 × 12-24 V DC vehicle adaptor and 1 × 110 V charger
- 1 × charging socket cover
- 1 × pouch for metal torch

Recommended tools:

Replacement battery **Art. No. 827.805301**

| Technical Information | |
|-------------------------|---|
| Items | Description |
| LED Light | LED CREE 1W |
| Luminous level | 135 lumen (@700mA) |
| Battery | Lithium ion 19670 |
| Battery charge duration | 4 hrs; afterwards, the luminance level decreases to 10% in the "Power Light" mode |
| Electric protection | IP X6, according to IEC 60529, Section 14.2.6 |
| Dimensions | 35mm x 150mm (lamp head in) 57mm (lamp head out) |
| Weight | 156g (without battery) |
| Accessories | Lithium ion battery 19670, car charger, mains charger, hand strap |

ROUGH SERVICE BULB



| Art No. | 720.191001 | 720.191003 |
|--------------------------|--------------------|--------------------|
| Bulb Shape | A-19 | A-19 |
| Average rated life (hrs) | 2500 | 2500 |
| Base Style | Medium Screw (E26) | Medium Screw (E26) |
| Filament | C-9 | C-9 |
| Glass Diameter (mm) | 60 | 60 |
| Overall Length (mm) | 108 | 108 |
| Amps | 0.38 | 0.77 |
| Voltage | 130 | 130 |
| Wattage | 50 | 100 |
| Package Qty | 6 | 6 |

TUFF SKIN ROUGH SERVICE BULB



| Art No. | 720.191007 | 720.191005 |
|--------------------------|--------------------|--------------------|
| Bulb Shape | A-19 | A-19 |
| Average rated life (hrs) | 2500 | 2500 |
| Base Style | Medium Screw (E26) | Medium Screw (E26) |
| Filament | C-9 | C-9 |
| Glass Diameter (mm) | 60 | 60 |
| Overall Length (mm) | 108 | 108 |
| Amps | 0.577 | 0.770 |
| Voltage | 130 | 130 |
| Wattage | 75 | 100 |
| Package Qty | 6 | 6 |



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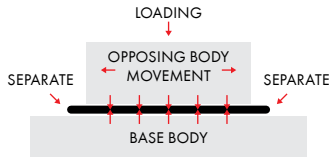


HHS 2000



| Contents | Colour | Art. No. |
|----------|--------|----------|
| 330 g | Amber | 893.106 |

Pressure resistance under high pressure loads



Highly adhesive penetrating synthetic lubricating oil

High lubrication power

- Prevention of noises
- Vibration and impact dampening properties
- Long lasting lubrication effectiveness

High capillary action

- The product's capillary action enables it to penetrate into inaccessible areas
- Effective creeping ability means that it does not require dismantling of parts when lubricating

Highly adhesive

- No splattering of the lubricant with turning and rotating parts

Material compatibility

- Compatible with O-Rings, X-Rings, plastic, metal, painted surfaces, etc.

Protects of the surfaces against corrosion

Resistant to salt-water spray, withstands weak acids and alkaline solutions.

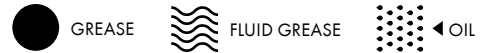
Contains no silicone, resin or acid

Operating temperature range:

-35 °C to +180 °C (-31 °F to +356 °F), temporarily: +200 °C (+392 °F)

Areas of Application:

Universal lubricating agent for parts under high pressure (e.g. shift, throttle and clutch linkages, bowden cables, hinges, deflection levers, etc.). Can be exposed to fresh and saltwater influence, and ideal for hard to reach areas and hidden lubrication points.



| Capillary Action | High Pressure Resistance | Temperature Resistance | Corrosion Protection | Adhesive Strength | Durability | Material Compatibility | Dirt Repellent | Solid Lubricant |
|------------------|--------------------------|------------------------|----------------------|-------------------|------------|------------------------|----------------|-----------------|
| ●● | ●●●● | ●● | ●● | ●● | ●● | ●● | ● | None |

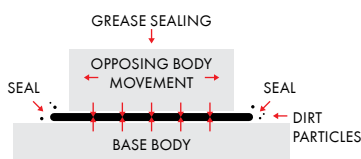
Despite high pressure loads and the shear movement of the base body, the lubricating film of the HHS 2000 remains active and does not tear off. Separates the opposing body from the base body, ensuring optimum wear protection under high pressure loads. This is possible only with a dirt-free surface!

HHS GREASE



| Contents | Colour | Art. No. |
|----------|--------------|----------|
| 312 g | Bright White | 893.1067 |

Sealing behaviour against dirt and splash water



High-performance, long-term maintenance grease with PTFE.

Long life lubricating features

Excellent sealing behaviour against moisture and dirt. Therefore, top oxidation stability and extension of lubricating intervals. High corrosion protection abilities included.

Outstanding material compatibility

- Excellent compatibility (plastic variants)
- Behaves neutrally toward painted surfaces

Solid lubricant with PTFE

- After grease film tears off, PTFE takes over lubrication (emergency running property)
- High thermal stability

With special white pigmentation

Optimum recognition of lubrication points during maintenance and inspection

Resistant to salt-water spray, withstands weak acids and alkaline solutions

Contains no silicone, resin or acid

Operating temperature range:

-15 °C to +130 °C (5 °F to +266 °F), temporarily: +200 °C (+392 °F)

Areas of Application:

Suitable for lubrication during maintenance and inspection work, e.g. hinges, joints, slide rails etc.



| Capillary Action | High Pressure Resistance | Temperature Resistance | Corrosion Protection | Adhesive Strength | Durability | Material Compatibility | Dirt Repellent | Solid Lubricant |
|------------------|--------------------------|------------------------|----------------------|-------------------|------------|------------------------|----------------|-----------------|
| ● | ●● | ● | ●● | ●● | ●●● | ●●● | ●●● | PTFE |

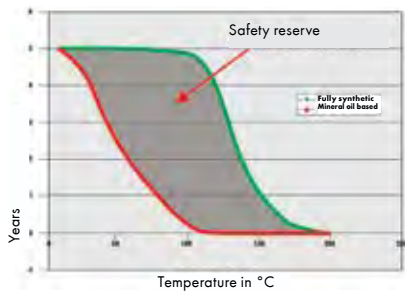
The grease forms a sealing "grease collar" against moisture and dirt particles between the opposing body and the base body. The dirt cannot reach the lubricating point, ensuring long-term lubrication. The lubricating intervals extended in this way are only possible with good pre-cleaning of the lubricating point.

HHS 5000



| Contents | Colour | Art. No. |
|----------|-------------|----------|
| 430 g | Transparent | 893.1063 |

Operating Temperature/ Service Life Graph



High-performance fully synthetic oil lubricant with PTFE and extreme thermal stability.

Durable lubrication and wear resistance with PTFE

- Long term noise prevention
- After lubricating film wears off, the PTFE takes over lubrication (emergency running property)
- Maintenance of the gliding film under high thermal loads
- Vibration and impact dampening properties

High creeping capacity

- Very high migrating capacity
- Suitable for reaching hidden lubrication points

Highly adhesive

No splattering of the lubricant with turning and rotating parts

Material compatibility

Compatible with O-Rings, X-Rings, plastic, metal, painted surfaces, etc.

Safety due to long-term effect

- Provides reliable, long-term protection against corrosion
- No oxidation (gumming) up to +200 °C (392 °F). Briefly up to +250 °C (482 °F).
- No coking residues

Prevents carbon residue buildup

Splash and saltwater-resistant, withstands weak acids and alkaline solutions

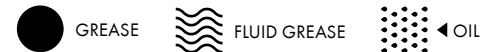
Contains no silicone, resin or acid

Operating temperature range:

-20 °C to +200 °C (Temporarily: +250 °C)

Areas of Application:

Suitable for lubrication with the smallest tolerances and high temperature loading, e.g. throttle valve joints, inside bearings, thermally loaded chains and slide rails, etc.



| Capillary Action | High Pressure Resistance | Temperature Resistance | Corrosion Protection | Adhesive Strength | Durability | Material Compatibility | Dirt Repellent | Solid Lubricant |
|------------------|--------------------------|------------------------|----------------------|-------------------|------------|------------------------|----------------|-----------------|
| ●●● | ●● | ●●● | ●● | ● | ●● | ●●● | ● | PTFE |

Where lubricating film made from ordinary mineral-oil based lubricants tears (e.g. at +120 °C red curve), our HHS 5000 offers a longer lubricating condition (green curve). This allows considerable saving of lubricant.

HHS FOODSTUFFS



| Quantity | Colour | Art. No. |
|---------------|------------|----------|
| 350g (12.3oz) | Colourless | 893.1076 |

The specialized food grade adhesive lubricant from our HHS range with NSF H1 certification.

- Adhesive penetrating lubricant especially made for food related industries.
- HHS Foodstuffs is a fully synthetic lubricant formula suited for precise applications where substrate compatibility and long lasting lubrication is essential.
- HHS Foodstuffs is also suitable for other areas of application such chains, linkages, joints, levers, bearing, sliding points, cables, open drives and hinges.

Characteristics:

- Great capillary action and adherence allows the lubricant to access hard-to-reach areas.
- NSF H1 registered.
- Provides long lasting protection against corrosion.
- Water resistant
- Free of silicone, acid, resin and AOX.
- Temperature tolerance - long term -25°C to 180°C (-13°F to 356°F) and short term up to 220°C (428°F).
- Compatible with O-rings/X-rings.

Areas of Applications:

- Shake the can well before use.
- The substrates need to be cleaned of grease and soil before being treated with HHS Foodstuffs for optimal results.
- When used as a corrosion protection film for food contact surfaces, completely remove all lubricant before restarting the device.

| Capillary Action | High Pressure Resistance | Temperature Resistance | Corrosion Protection | Adhesive Strength | Durability | Material Compatibility | Dirt Repellent | Solid Lubricant |
|------------------|--------------------------|------------------------|----------------------|-------------------|------------|------------------------|----------------|-----------------|
| ●● | ●● | ●● | ●● | ●● | ●● | ●●● | ● | None |

HHS LUBE



| Contents | Colour | Art. No. |
|----------|------------|----------|
| 390 g | Opal Green | 893.1065 |

Extreme pressure adhesive grease. Long lasting sprayable grease with OMC₂ technology.

Minimizes wearing and substance loss of lubricated surfaces

- Improves lubricity due to thermoplastic surface smoothing (OMC₂ technology)
- Reduces friction temperature, resulting in longer lubricating effect
- Low wear

Low dust and dirt adhesion

- Suitable especially for outdoor applications exposed to dust and dirt
- Long-term lubrication of the parts

Resistant against salt-water spray, as well as weak acids and alkaline solutions

- No rinsing off of the grease due to rain, splashes, cleaning solutions, etc.
- High corrosion protection properties

High pressure parts can be lubricated

- Resistant to high pressure loads due to extreme pressure additives
- Excellent noise and vibration damping properties

Material compatibility

Compatible with plastic, metal, painted surfaces, etc.

Contains no silicone, resin or acid

Operating temperature range:

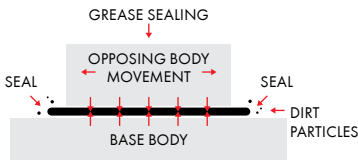
-25 °C to +150 °C (-13 °F to +302 °F), temporarily: +170 °C (+338 °F)

Areas of Application:

Suitable for lubrication applications with high dirt and weathering influence, e.g. gearwheels, wire cables, chains, spring tensioners, anti-friction bearings, etc.



Sealing behaviour against dirt and splash water:



| Capillary Action | High Pressure Resistance | Temperature Resistance | Corrosion Protection | Adhesive Strength | Durability | Material Compatibility | Dirt Repellent | Solid Lubricant |
|------------------|--------------------------|------------------------|----------------------|-------------------|------------|------------------------|----------------|------------------|
| ● | ●● | ●● | ●●● | ●●● | ●●● | ●● | ●●● | OMC ₂ |

The grease forms a sealing "grease collar" against moisture and dirt particles between the opposing body and the base body. The dirt cannot reach the lubricating point, ensuring long-term lubrication. The lubricating intervals extended in this way are only possible with good pre-cleaning of the lubricating point.

Manner of operation of OMC₂ technology

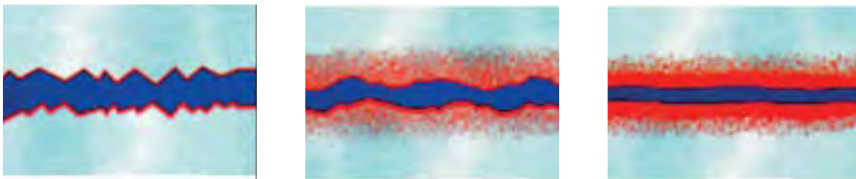


Fig. 2

Fig. 3

From a microscopic standpoint, all metal surfaces are rough (Fig. 1) and are subject to constant wear and substance loss when subjected to friction. HHS Lube with OMC₂ technology smoothes the metal surfaces by means of thermoplastic flow deformation (Fig. 2-3), ensuring the longer life of the components.

HHS RED LUBE



Extreme pressure resistant long-term sprayable grease with OMC₂ technology.

Minimizes wearing and substance loss of lubricated surfaces

- Improves lubricity due to thermoplastic surface smoothing (OMC₂ technology)
- Reduces friction temperature, resulting in longer lubricating effect
- Low wear

Low dust and dirt adhesion

- Suitable especially for lubrication of open parts outside
- Long-term lubrication of the parts

Resistant against salt-water spray, as well as weak acids and alkaline solutions

- No rinsing off of the grease due to rain, splashes, cleaning solutions, etc.
- High corrosion protection property

High pressure points can be lubricated

- Resistant to high pressure loads
- Excellent noise and vibration damping properties

Material compatibility

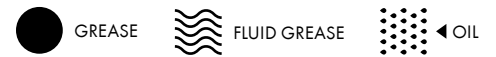
- Compatible with a wide range of plastic, metal, painted surfaces, etc.

Contains no silicone, resin or acid

Operating temperature range: -35 °C to +180 °C (-31 °F to +356 °F), temporarily: +200 °C (392 °F)

Areas of Application:

Suitable for lubricating points with high dirt and weathering influence, e.g. gearwheels, wire cables, chains, spring tensioners, anti-friction bearings etc.



| Contents | Colour | Art. No. |
|----------|--------|-----------|
| 390 g | Red | 893.10651 |

| Capillary Action | High Pressure Resistance | Temperature Resistance | Corrosion Protection | Adhesive Strength | Durability | Material Compatibility | Dirt Repellent | Solid Lubricant |
|------------------|--------------------------|------------------------|----------------------|-------------------|------------|------------------------|----------------|------------------|
| ● | ●● | ●● | ●●● | ●●● | ●●● | ●● | ●●● | OMC ₂ |

Sealing behaviour against dirt and water/salt-water spray

The grease forms a sealing “grease collar” against moisture and dirt particles between the opposing body and the base body. The dirt cannot reach the lubricating point, ensuring long-term lubrication. The lubricating intervals extended in this way are only possible with good pre-cleaning of the lubricating point.

Manner of operation of OMC₂ technology

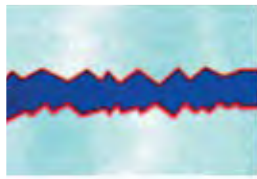


Fig. 1

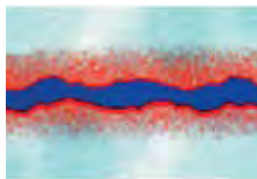


Fig. 2

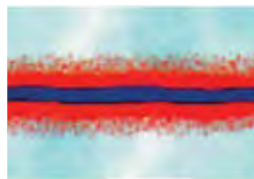


Fig. 3

From a microscopic standpoint, all metal surfaces are rough (Fig. 1) and are subject to constant wear substance loss when subjected to friction. HHS Lube with OMC₂ technology smoothes the metal surfaces by means of thermoplastic flow deformation (Fig. 2-3), ensuring the longer life of the components.

HHS FLUID



| Contents | Colour | Art. No. |
|----------|-----------|----------|
| 386 g | Yellowish | 893.1064 |

Adhesive fluid grease, resistant to centrifugal force.

When spraying on - oil

Excellent creep capacity

- Good gap penetration behaviour
- Protects against corrosion
- Reaches everywhere, where ordinary grease can't

After flashing off - grease

Extremely active adhesive effect

- Remains in the point to be lubricated
- No throwing off/splashing
- Good long-term effect

Outstanding pressure resistance

- Extraordinary tear-resistant lubricating film for high-pressure loads
- Outstanding noise and vibration dampening properties

Good material compatibility

- O-ring and X-ring compatible
- Compatible with plastic
- Behaves neutrally toward painted surfaces

Resistant to salt-water spray, withstands weak acids and alkaline solutions

Contains no silicone, resin or acid

Operating temperature range:

-25 °C to +170 °C (-13 °F to +338 °F)

Temporarily:

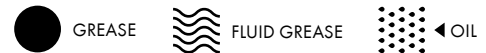
+200 °C (392 °F)

Colour:

yellowish

Application:

Suitable for lubricating difficult re-lubrication points with performing maintenance and repair work, e.g. inside bearings, wire cables, joints, shafts, rolling bearings, etc.



| Capillary Action | High Pressure Resistance | Temperature Resistance | Corrosion Protection | Adhesive Strength | Durability | Material Compatibility | Dirt Repellent | Solid Lubricant |
|------------------|--------------------------|------------------------|----------------------|-------------------|------------|------------------------|----------------|-----------------|
| ●● | ●●●● | ●● | ●● | ●●●● | ●● | ●● | ●● | None |

The DUO Effect

When sprayed, has an oil-like consistency

When flashed off, a high-pressure resistant grease

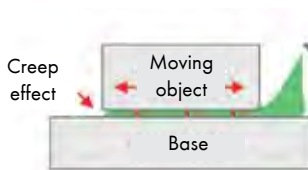


Fig. 1.1

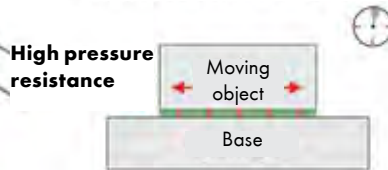


Fig. 1.2

Excellent creep behaviour directly after spraying on (**Fig. 1.1**). Penetrates between parts with close tolerances. Following brief flashing off of the active ingredient-solvent mixture, a high-viscosity grease is left behind exactly at the point to be lubricated (**Fig. 1.2**). At the same time, the creep point is wetted and protected against corrosion.

With the new DUO Effect creep properties as with an oil.
Has active adhesive and is pressure-resistant like grease.

ASSORTMENTS

Art. No. 965.890



Premium Quality Chemical Assortment

Contents:

- 1 x Aerosol Cabinet
- 6 x Brake & Parts Cleaner
- 2 x Rost Off
- 2 x HHS 2000
- 3 x White Lithium Grease
- 3 x Gloss Black Spray Paint
- 3 x Flat Black Spray Paint
- 1 x Copper Anti Seize CU 1100
- 1 x RTV-Sensor Safe Silicone
- 1 x RTV-Hi-Temperature Silicone
- 1 x D.O.S Super glue
- 1 x Medium Thread lock (Blue)

CUT+COOL ULTRA - CONCENTRATED COOLING LUBRICANT

Art. No. 893.050030 5 L



Partly synthetic all-purpose lubricant with an outstanding cooling effect and excellent chip removal

Features:

- Low-foaming formulation makes it ideal to be used with soft-water
- Excellent corrosion protection for tools and workpieces
- Excellent lubricating capacities allowing for increased operating speeds and less friction

Areas of application:

- Light-to-medium weight steel, cast iron, aluminum alloys and non-ferrous metal chips
- All lathes, grinders, and machining center equipment

Note: Boron-free, amine-free, chlorine-free, and formaldehyde-free

| Usage | Dilution Ratio |
|--|----------------|
| Grinding of steels and non-ferrous metals | 4 - 6% |
| Machining of steels and non-ferrous metals | 6 - 10% |
| Refractometer factor: | 2.3 |

CUT+COOL ECO - BIODEGRADABLE CUTTING OIL

Art. No. 893.050012 5 L



A biodegradable, ecologically-sound cutting oil with uncompromising performance.

Features:

- Odour-free
- Free of chlorine, sulphur, phosphor, silicone, resin and mineral oil
- Free of Paint-Wetting Impairment Substances (PWIS)
- Non-conductive

Benefits:

- Easy to use
- No cleaning of metals prior to assembly or further treatment required (e.g. welding) with low use concentrations
- Can be used on delicate surfaces, such as marble, plastic, and electrical components
- Minimal smoking

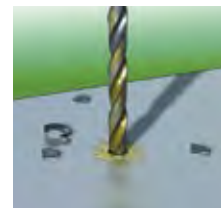
Areas of application:

For local use and with loss in lubrication systems. Optimum use with flat pressing between workpiece and tool, as well as for all difficult machining work.

Ordinary Oil



Cutting Oil Eco



Due to adherence of oil particles on machining tool, an optimum, long-term lubricating action is achieved.

CUT+COOL - CUTTING AND DRILLING OIL



Art. No. 893.050004 355 g

Multi-functional cutting oil used in a variety of applications from light to medium heavy machine work.

Features:

- Aerosol container
- Universal use
- Free of silicone, chlorine, resin and acid
- Free of Paint Wetting Impairment Substances (PWIS)
- Spray cools on contact
- Protects tools
- Good creeping properties
- Excellent corrosion protection
- Dissolves sticky residues & deposits
- Good material compatibility

Benefits:

- Creeps into tight spaces
- Prevents welding of small material particles to cutting edge
- Provides lasting protection against further formation of rust and corrosion
- No re-treatment or preservation necessary
- Gumming up of chips is prevented

Areas of application:

For drilling, thread tapping, thread forming, turning, counter-sinking, reaming and sawing. Optimal for stainless steel, but also high-alloy & construction steel, non-ferrous and precious metals. Can be used as a preservative agent for semi-finished and finished parts, machine parts, and as gun oil.

CUT+COOL - CUTTING AND DRILLING OIL PERFECT



Art. No. 893.050008 334 g

High-performance cutting oil for heavy-duty machining and high cutting speeds

Features:

- Aerosol container
- Free of chlorine, sulphur, phosphor, silicone and resin
- Free of Paint Wetting Impairment Substances (PWIS)
- Dual use as a lubricant and paste for heavy-duty machining
- Great corrosion protection
- Extremely resistant to high pressure

Benefits:

- Horizontal and overhead applications can be executed with ease
- Provides excellent results and safety for all materials and applications
- Can be welded without cleaning when smaller quantities are used
- Extends the life of tools
- Easy machining of hard steels with maximum strength

Areas of application:

Optimum use for all machining of all materials such as steel, high-alloy steel, aluminum, non-ferrous metals, titanium, hard metals, cast iron, etc.

CUT + COOL - CUTTING AND DRILLING FOAM



Highly activated high-performance cutting foam for all machining applications

Features:

- **Suitable for overhead applications**
Results in a well-adhering oil foam on the work piece
- **No de-greasing work with cleaners necessary**
Can be washed off with clean water
- **Very good cooling effect, strongly adhesive**
Low consumption; can be used as a minimal-quantity lubricant
- **High performance thanks to high cutting speed and minimal tool wear**

- **Sulfur, mineral oil, heavy metal, and resin free**
- **Does not contain volatile chlorinated hydrocarbons**
- **Free of substances which interfere with wetting of paint**

Areas of Use:

- For all ferrous and non-ferrous metals
- Steel: alloy and non-alloy
- All casting types: cast steel, malleable cast iron, die casting etc.
- Copper and its alloys: cast brass, red brass etc.
- All chrome-nickel alloys
- Aluminum and aluminum alloys

Applications:

Well-suited toward all machining applications, such as: thread cutting, thread drilling, centering, stripping, reaming, drilling and milling.

| Container | Contents | Art. No. | P. Qty. |
|-----------|----------|------------|---------|
| Aerosol | 432 g | 893.050007 | 1 |

APPLICATION TABLE

| | Cutting and Drilling Oil | Cutting and Drilling Oil Perfect | Cutting and Drilling Oil Eco | Cooling Lubricant |
|---|--------------------------|----------------------------------|------------------------------|-------------------|
| Materials | | | | |
| Steel, alloyed steel | •• | ••• | ••• | •• |
| High-alloy steel | •• | ••• | ••• | •• |
| Cast iron, grey cast iron | •• | ••• | •• | •• |
| Carbide | •• | ••• | •• | • |
| Non-ferrous metal (copper, brass, etc.) | •• | ••• | ••• | • |
| Titanium | • | ••• | •• | • |
| Magnesium | • | ••• | •• | • |
| Aluminum, aluminum alloys | • | ••• | •• | •• |
| Machining processes | | | | |
| Turning, automatic lathe | •• | ••• | • | •• |
| Drilling, countersinking, reaming | •• | ••• | ••• | •• |
| Deep drilling | • | ••• | •• | • |
| Sawing | •• | ••• | •• | •• |
| Thread tapping | •• | ••• | ••• | •• |
| Thread forming, rolling | •• | ••• | ••• | • |
| Milling | • | ••• | •• | •• |
| Grinding | • | ••• | • | •• |
| Forming, rolling, bending | • | ••• | ••• | • |
| Punching, fine punching | • | •• | •• | • |
| Broaching, tooth cutting | • | ••• | •• | • |
| Characteristics | | | | |
| Basis | Mineral oil | Mineral oil with synth. ester | Synth. ester | Mineral oil |
| Viscosity (mm ² /s) | 12 | 25 | 35 | 175 |
| Minimal quantity lubrication | | ✓ | ✓ | |
| Free from mandatory warning symbols | | | ✓ | ✓ |
| Suitable for overhead applications | | | | |
| Biodegradable/appr. for use in food pros. & storage | | | ✓ | |
| Very high lubricating performance | | ✓ | ✓ | |
| Very long tool life | | ✓ | ✓ | ✓ |
| Minimal smoking | | ✓ | ✓ | ✓ |
| Extremely low consumption | | | ✓ | |
| Good creep properties | ✓ | | | |
| Low-foaming | | | | ✓ |
| Very high microbial stability | | | | ✓ |
| Water hazard class | 1 | 1 | 1 | 2 |

TECHNICAL INFORMATION

| Product | Cutting and Drilling Oil | Cutting and Drilling Oil Perfect | Eco Cutting and Drilling Oil | Cooling Lubricant Concentrate |
|--|--|---|---|---|
| Art. No. | 893.050004 | 893.050008 | 893.050012 | 893.050030 |
| Container | Aerosol, 400 mL | Aerosol, 400 mL | Canister, 5 L | Canister, 5 L |
| Type | Multi-functional oil for many applications | High-pressure resistant high-performance cutting oil for excellent results with all materials | Biodegradable, harmless cutting oil | Universal cooling lubricant with high corrosion protection |
| Properties | For universal use Extremely good creep capacity Already cools while spraying on Dissolves sticky residues and deposits Good material compatibility Gumming up of chips is prevented | Can be used as minimal quantity lubricant High separating effect between friction partners workpiece and tool Outstanding results for all machining work Very good high pressure resistance Weldable without prior cleaning (with low use concentrations) Top dimensional accuracy and quality | Can be used in areas in which food is processed or stored Suitable for loss lubrication No reaction on contact with sensitive materials Very good high-pressure resistance Outstanding corrosion protection Further processing (e.g. welding) possible without washing off (with low use concentrations) 100% biodegradable Odour-free | Multi-functionally suitable for all machining equipment Suitable for a broad range of materials Free from mandatory warning symbols High corrosion protection Extremely hypoallergenic Low-foaming No gumming up of measuring sensors, etc. |
| Base | Mineral Oil | Mineral oil with synth. ester | Synth. ester | Mineral oil |
| Colour | Brown-yellow | Yellow | Light yellow | Brown (concent.); Semi-transparent emulsion |
| Flash point (oil) | ~ 190 °C (374 °F) | ~ 170 °C (338 °F) | ~ 275 °C (527 °F) | - |
| Viscosity, mm²/sec | 12 | 25 | 35 | 66 |
| Density at 20 °C, g/cm³ | 0.889 | 0.835 | 0.77 | 0.989 |
| Water hazard class | 1 | 1 | 1 | 1 |
| pH value | - | - | - | 8.9 (emulsion) |
| Refractive index | - | - | - | - |
| Loadability, wear protection, service life* | - | - | - | 26 mm ² (steel ¹) 25 mm ² (steel ²) 20 mm ² (aluminum ³) |
| Brugger Test, N/mm² (DIN 51347) | 22 | 113 | 22 | - |
| Shelf life, months | 12 (+5 to +40 °C) (+41 to +104 °F) | 12 (-10 to +50 °C) (+14 to +122 °F) | 12 (-10 to +60 °C) (+14 to +140 °F) | 12 (+5 to +40 °C) (+41 to +104 °F) |

WOOD GLIDE



Art. No. 893.070 5 L

Wood Glide is great for neutralizing resin, preventing wood shavings and wood dust from sticking to and clogging machinery

Features:

- Cleans adjustment wheels, hand spindles and dimensional stops
- Prevents corrosion on bare or polished machine tables
- Behaves neutrally on post-treatment with paints, stains or varnishes
- Repels moisture
- Silicone-free

Areas of application:

- Can be used on all wood-working machines

Recommended:

Use with Spray Pump Bottle (1L) **Art. No. 893.070-P**

Note: Wood Glide must not be applied directly to the workpiece surface. Preliminary testing is required for painted parts.

WÜRTH FILM



Art. No. 893.3300 340 g

Würth Film is a non-conductive long-term penetrant lubricant that protects against rust and corrosion

- Ideal product to use for the protection of all metal surfaces
- The penetrating and coating action ensures moisture is displaced and further moisture intrusion is prevented
- Will not dry up and flake off
- The aerosol format provides ease of application, especially in hard-to-reach areas
- Provides lubrication to sliding surfaces, to prevent

- binding and squeaking
- Penetrates through rust, stopping all metal deterioration on contact
- Solvent free, non-toxic, non-conductive, silicone free and environmentally friendlier
- Temperature range: -10 °C to +60 °C (+14 °F to +140 °F)

Application:

- Automotive and Trucking: battery terminals, brake cables, door hinges, hood & trunk mechanisms, all nuts, bolts & studs, throttle cables, tools, wheel lugs, trailer attachments
- Agriculture: applicators and transfer pumps handling liquid fertilizers, balers, blades/cutters, combines, cultivators, tractors, winches, fertilizer spreaders, irrigation fittings, pruning shears & saws, control cables
- Boating: battery terminals, boat trailers, outboard engines against salt spray, electronic equipment, fishing reels, pulleys
- Manufacturing / Industrial: chain falls, conveyor belt rollers, cranes, exposed gears & machined surfaces, mould release agent, snow ploughs

COGWHEEL GREASE



Art. No. 893.1055 296 g

Black, shear-resistant, high-pressure resistant special lubricant.

- High-pressure resistant.
- Reliable wear protection, even under high pressure loads.
- Noise and vibration-damping.
- Shear-resistant.
- Excellent lubrication, even with quickly rotating lubricating points.
- Addition of solid lubricants. Features good emergency running properties.*
- Contains corrosion protection additives. Gets under moisture and protects against corrosion.
- O-ring compatible.
- Resistant to sprayed salt-water spray, as well as to weak acids and caustic solutions.
- Silicone and bitumen-free.

- Temperature range from -30°C to +180°C (-22°F to +356°F).

Areas of application:

For long-term lubrication of open lubricating points, heavily loaded gearwheels, rapidly turning chains and for lubricating turning gears, toothed racks, fifth-wheel pick-up plates, leaf springs, etc. both indoors and outdoors.

* Emergency running property: The solid lubricant prevents extreme wear in the critical phases of lubricating film tear-off.

HSP 1400



Art. No. 893.123 292 g

Metal-free, grey-coloured high-temperature lubricating paste which reduces wear, promotes separation and protects against corrosion.

Features:

- Universal application
- Supple & highly adherent
- Contains no metal-pigments
- Free of graphite, MOS_2 and additives containing sulfur
- Silicone free
- Non-toxic
- Carries NSF Certification

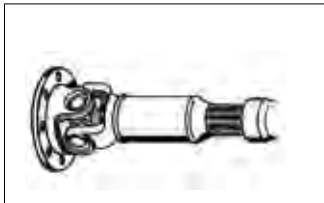
Industry use information:

- Machine tools of all kinds
- Vehicles, construction & agricultural machines
- Conveyor technology, pipeline construction, assembly/maintenance/repair departments
- Tool manufacturing
- Mechanical workshops

| Technical Data | |
|-------------------|--|
| Base | Synthetic mineral oil mixture with organic thickener and solid lubricant combination |
| Temperature range | -40°C to +1,400°C (temperature range of solid lubricants) |
| Test data | Tests in mixed friction area Four-Ball Tester Acceptable Load/ Welding Load 3,800/4,000 N, DIN 51350,4 SRV (cylinder/plate; 450 N, 1,000 µm, 50 Hz.2h) - Friction coefficient: 0.10 - 0.13 - Wear depth: 0.3 µm Corrosion-protection test Salt-spray test > 500 h, DIN 50 021t |

Note: Product is not suitable for bearing lubrication.

Areas of application:



Splined shafts and joints of all kinds.
• High pressure resistance ensures smooth movement and minimal wear



Slide and roller bearings, fly wheels and runners.
• Non-destructive pressing in and out



• Operational readiness
• Protection of the edges from wear and seizing



Brake pads
• Prevents corrosion, seizing up and sticking on disk brake pads.
• Prevents squeaking and wear



Press fittings on slide bearings, bed tracks and column guides
• Smooth, jerk-free movements, even at low speeds.
• Emergency lubrication for additional lubrication with greases or oils.
• Protection against edge pressing



Heavy-duty stroke spindles
Shut-off valves, taps, slide valves
• Smooth movement of adjustment spindles.
• Uniform tightening torques and non-destructive dismantling of screw connection.



Brake parts, clamping chucks, heavy clamped connections
• Ensures high clamping forces.
• Ensures uniform tightening and loosening.
• Adhesive, water-resistant lubricating film.



Flange connections, pins, screws, bolts and nuts
• Ensures even tightening torques thanks to the minimum friction coefficient distribution.
• Non-destructive dismantling, even after long effects of heat exposure.
• Prevents seizing up, e.g. with stainless-steel bolts.

LMS-FLUID



| Contents | Colour | Art. No. |
|----------|------------|------------|
| 344 g | Colourless | 893.107001 |

Food grade lubricant. Physiologically safe special lubricant on a paraffin oil base.

- Can be used in areas in which food is processed or stored.
- NSF H1 Certified
- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

Viscous, colourless special lubricant

- Reduction of wear and friction
- Excellent corrosion protection

Can be applied exactly where needed

- Optimum, precise lubrication at defined lubrication points
- Economical and sparing

Safer Experience

- Especially user-friendly and secure handling
- Improved workplace safety and health protection
- Free from mandatory warning symbols

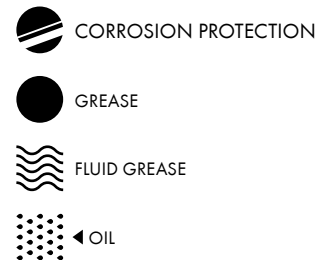
Tasteless and odourless

AOX and silicone-free

Areas of Application:

For oil lubricating points on machines, conveying systems, gearboxes, plain bearings and anti-friction bearings as well as for use as a release agent and lubricant and for corrosion protection in the food, pharmaceutical, printing and paper industries. For the care and maintenance of stainless steel in breweries, bakeries, meat factories, industrial kitchens and hospitals.

| Technical Data | |
|------------------------------|--|
| Chemical basis | Medicinal white oil according to DAB 102 |
| Density at 20 °C | 0.86 g/cm ³ |
| Temperature range | -20 °C to +145 °C (-4 °F to +293 °F) |
| Basic oil viscosity at 40 °C | 70 mm ² /s |



PTFE DRY FILM LUBRICANT



Art. No. 893.550 180 g

Transparent, non-soiling dry lubricant

Remedies squeaking, creaking and jamming

Provides long-term protection against wear

Dry lubrication

Does not attract dirt and dust

Film thickness 10 µm

Can also be used with extremely close tolerances in fine machinery

Very high resistance

- Thermally stable from -180 °C to +260 °C (temporary)
- Permanently resistant to water acids and alkaline solution

Silicone-free

Mineral oil-free

Areas of application:

Suitable for dry lubrication of sliding points. For cases of minimal and medium exposure, can be used for metals, plastic, rubber, etc. Ideal for sliding-roof and seat rails, door hinges and locks, sliding doors, tilt window mechanisms, window locks, furniture hinges, drawers, runners, ball bearings, electrical switches, etc. Also ideal as a release agent if used sparingly.

DRY GRAPHITE LUBRICANT



Art. No. 893.555001 397 g

Professional quality, fast dry film. Ozone Friendly.

A fast drying graphite lubricant that reduces friction and noise. It is effective under heavy pressures and continuously high temperatures. This oil free formulation resists water and alkalis.

Applications:

Door locks, engine assembly pre-lube, key barrels, power antennas, bearings, gaskets, hinges, rubber moldings, anti-seize thread lubricant, etc.

Application Temperature:

50°F to 90°F (10°C to 32°C). Can withstand temperatures up to 400°F (204°C)

Note: Caution! Do not spray on paint work. If material comes in contact with paint finish, remove immediately.

WIRE CABLE SPRAY



Art. No. 893.1058 387 g

Protective wax with OMC₂ for lubrication and conservation

Does not melt off when at hot temperatures

Ideal for areas subjected to direct sunlight

Optimal creep properties

- Good penetration of the lubricating wax in the smallest crevices
- Lubrication in hard to reach places

Outstanding water resistance

- Ideal for outdoor use
- Protects against moisture
- Excellent corrosion protection

Contains additives with OMC₂ technology

- Improved lubricating film
- Extended corrosion protection
- Low wear
- Extended service life

Free of AOX and silicone

Free from resin and acid

Free of solid lubricants

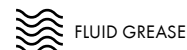
Does not inhibit sealing properties of elastomers Viton and Perbunan

Areas of Application:

Lubricates and conserves wire ropes on winches, lifts, conveyors as well as carrier and sling ropes.

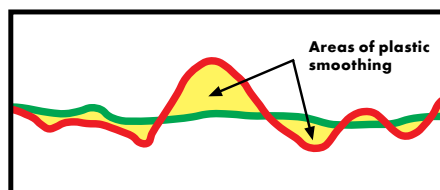
Technical Data:

| | |
|--------------------------------------|---------------------------------------|
| Base | Synthetic wax oxidation base |
| Colour | brown |
| Water resistance (DIN 51807, Part 1) | 0 - 90 |
| Corrosion protection (DIN 51802) | No rust spots after 7 cycles |
| Temperature Range | -40 °C to +120 °C (-40 °F to +248 °F) |



Function principle of OMC₂ technology:

Viewed under a microscope, all metal surfaces are rough and are subject to continual wear and loss of substance due to friction. OMC₂ additives render metal surfaces smoother due to thermoplastic flow deformation through organo-metallic compounds. The flow deformation is controlled individually, depending on the load the metal surface is subjected to.



original surface smoothed surface

- Improves surface quality due to metal surface sealing
- Improves lubricating film quality
- Reduces thermal loading
- Less friction (up to 50% in mixed friction area)
- Reduces loss of substance
- Reduces wearing
- Extended service life

TIRE AND RUBBER LUBRICANT



Art. No. 890.12500 440 g

A special spray lubricant that facilitates the assembly and disassembly of rubber parts.

Features :

- Spray lubricant with a foam like texture that evaporates without leaving a residue or dirty grease.
- Will not attack aluminum, rubber, varnish or paint.
- Application temperature 10°C-35°C.
- Ideal for lubricating tires for easy mounting on rims, particularly for low profile or run flat tires.
- Can be used to reduce friction/resistance when pulling cables through pipe, ducts or conduit.
- Suitable for assembly of hoses, rubber plugs, door rubbers, rubber covers, silent blocs, etc.

MAINTENANCE SPRAY



Highly effective wear protection additives ensure excellent friction reduction

Prevents freezing in winter, as no moisture can accumulate

Outstanding creeping and cleaning performance

- Keeps door and window hinges running smoothly
- Lubricates and protects all precision mechanical devices

Resin and acid-free

- Sensitive surface components are not attacked

Silicone-free

Also suitable for use as a gun oil

Use:

For lubricating hinges, tool and machine holders, etc.

Temperature Resistant from -15°C to 150°C

| Designation | Contents | Art. No. |
|-------------|----------|----------------|
| Aerosol Can | 107 g | 893.051 |

 CORROSION PROTECTION

 GREASE

 FLUID GREASE

 OIL

LOCK CYLINDER SPRAY



Excellent creeping properties ensure very good moisture displacement

Prevents freezing in winter, as no moisture can accumulate

Contains corrosion protection additives

Provides permanent protection of locking mechanisms

Resin and acid-free

Sensitive components are not attacked

Silicone-free

Use:

For the care of all types of locks.

| Designation | Contents | Art. No. |
|-------------|----------|----------------|
| Aerosol Can | 35 g | 893.052 |

MULTI FUNCTION SPRAY



Versatile multi-function spray.

Rust penetrating agent

- Excellent creeping properties ensure quick rust and corrosion penetration

Lubricant

- Very good lubrication properties
- Remedies creaks and squeaks
- Reduces friction and wear

Cleaner

Great cleaning power is ensured thanks to penetration under dirt, grease and oil residue

Corrosion protection

Best possible cling to metals. A thin, viscous protective film prevents moisture on even the smallest uneven spots and protects against rust and corrosion.

Contact spray

Water- and moisture-displacing properties and excellent creeping properties improve electrical conductivity and remedy leakage current.

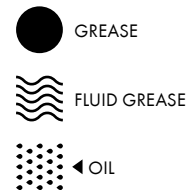
Resin, acid, and silicone free

Does not attack rubber, paint or plastics

Use:

- Loosens rusted bolts, pipe fittings, screws, nuts, joints, bowden cables, shafts, locks
- Lubricates closures, hinges, bushings, chains, door locks
- Stops squeaking and creaking and frees up movement of stuck or jammed parts
- Cleans and cares for plastic and metal parts such as coverings and housings
- Prevents corrosion of metals and electrical modules, cable connections, relays, plugs, couplings, etc.
- Prevents icing of cylinder locks and closures
- Penetrates and displaces moisture in electrical and electronic applications

5 in 1 A universal product for five different areas of use



| Spray Nozzle | Contents | Art. No. |
|------------------|----------|-------------------|
| Cobra (pictured) | 318 g | 893.055400 |
| Classic | 255 g | 893.05540 |

| Technical Data | |
|--------------------|--|
| Colour | Transparent bright yellow |
| Density | 0.790 g/ml |
| Temperature range | -30 °C to +130 °C (-22 °F to +266 °F) |
| Base oil viscosity | 30 cst at 40 °C |



MULTI-PLUS



| Contents | Art. No. |
|----------|----------|
| 332 g | 893.056 |

| Technical Data | |
|-------------------------------------|--|
| Chemical basis | Synthetic oil with multi-functional additive combination |
| Density at 20 °C (active substance) | 0.83 g/cm ³ |
| Temperature range | -50 °C to +210 °C |
| Basic oil viscosity at 40 °C | 32 mm ² /s |

Synthetic, physiologically safe multi-function spray with high-end properties for universal use

Can be used in areas in which food is processed or stored. NSF H1¹

- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

A product for a wide spectrum of applications

- Rust penetrating agent with creeping properties
- Wear reducing lubricant
- Good long-term corrosion protection
- Reliable release agent

No danger symbols such as Xi, Xn, F, F+ or N

- Suitable for use in physiologically and ecologically sensitive areas
- Low danger potential
- Safe working

A product for a wide spectrum of applications

- Rust penetrating agent with creeping properties
- Wear reducing lubricant
- Good long-term corrosion protection
- Reliable release agent

Colourless, non-discolouring

- Can be used on bright backgrounds
- No discolouration in the case of occasional contact with the product

Free from white oil / mineral oil

Good material compatibility

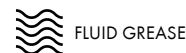
Resin-, acid- and silicone-free

Colourless, non-discolouring

- Can be used on bright backgrounds
- No discolouration in the case of occasional contact with the product

Areas of Application:

For the lubrication and maintenance of connecting joints, chains, seals and moving parts in automotive engineering, as well as in critical areas of the food, pharmaceutical, printing and paper industries. As a release agent, for corrosion protection and for all applications in which the use of conventional products on a mineral oil basis or of critical additives and solvents is not desired.



MULTI-PURPOSE GREASE II



| | |
|-----------------|-----------------|
| Contents | Art. No. |
| 400 g | 893.8711 |

Lithium saponified, high-pressure resistant graphite grease with EP additives

- High pressure resistant thanks to EP additive
- Excellent anti-seizing properties thanks to graphite
- Good sealing effect and corrosion protection
- Very good dust, dirt and water-repellent properties
- Silicone- and resin-free
- Comes in practical "pull off" cartridge

Application:

For average- and heavy-load anti-friction, slide, ball and roller bearings, shafts, rotary joints and assemblies, sideways and guides, spline shafts, joint rods, hinges, hydraulic units, etc.

Recommended:

Hand-Lever Grease Gun **Art. No. 986.00**

Note:

Greases are delivered in plastic cartridges! The plastic cartridges improve storage (they prevent the grease from oozing out in high temperature conditions). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and aggregate manufacturers must be observed!

| Technical Data: | |
|--|--------------------------------------|
| Soap base | Lithium 12 hydroxystearate |
| Colour | Grey black |
| NLGI Class (DIN 51818) | 2 |
| Temperature range | -20 °C to +130 °C (-4 °F to +266 °F) |
| Basic oil viscosity at 40 °C | 60 mm ² /s |
| Drop point (DIN ISO 2176) | 190 °C |
| Worked penetration (DIN ISO 2137) | 280 |
| Corrosion protection (SKF Emcor Test, DIN 51802) | 0 |
| VKA welding load (51350) | 2400 N |
| Designation pursuant to DIN 51502 | KPF 2K-30 |

MULTI-PURPOSE GREASE III



Art. No. 893.107002 400 g

Physiologically safe, colourless grease with multi-functional additive combination

- Can be used in areas in which food is processed or stored. NSF H1
- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

Good adhesive properties

Stable against pressure and oxidation-resistant

Supports quality of seals

Dust and water-repellent

Resin, acid and silicone-free

Safety product

- Especially user-friendly and secure handling
- Improved workplace safety and health protection
- Free from mandatory warning symbols

Recommended:

Hand-Lever Grease Gun **Art. No. 986.00**

Note:

Greases are delivered in plastic cartridges! The plastic cartridges improve storage (they prevent the grease from oozing out in high temperature conditions). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and aggregate manufacturers must be observed! For further information see the technical information leaflet.

Application:

For the lubrication and care of machines, plain bearings and anti-friction bearings, for long term lubrication in wet rooms and areas as well as in critical areas in the food, pharmaceutical, printing and paper industries.

| Technical Data: | |
|--|--------------------------------------|
| Soap base | Anorganic |
| Colour | Transparent |
| NLGI Class (DIN 51818) | 2 |
| Temperature range | -20 °C to +150 °C (-4 °F to +302 °F) |
| Basic oil viscosity at 40 °C | 100 mm ² /s |
| Drop point (DIN ISO 2176) | None |
| Worked penetration (DIN ISO 2137) | 285 |
| Corrosion protection (SKF Emcor Test, DIN 51802) | 0 |
| VKA welding load (51350) | 1800 N |
| Designation pursuant to DIN 51502 | KP2N-20-30 |

HIGH-PERFORMANCE GREASE



Art. No. 893.8804 25 kg

Lithium-complex lubricating grease with semi-synthetic oil base

Meets specifications MAN 284, MB 265.1 and exceeds MB 267

- Highest quality through compliance with specifications of leading vehicle manufacturers

Wide range of applications

- One single lubricant for most lubricating points, resulting in simpler stock-keeping and highest degree of application safety

Very high pressure absorption capacity

Good corrosion protection

Water resistant

Free from silicone, acids and resins

Areas of application:

For lubricating points on commercial vehicles subject to medium or high loads, such as wheel bearings (axle bearings), driveshaft bearings, axle drives, trailer couplings, loading tailgates, wheel hubs, universal joints, steering knuckles, wheel suspensions, lifting gear, hand brake linkages, tipper bearings, semi-trailers, etc.

Note: Store in a cool, dry place!

- The operating instructions of the aggregate and vehicle manufacturers must be observed! For further information please refer to Technical Information booklet!
- Not suitable for lubricating points, such as tie rod yokes, for which lubricants with solid lubricant content are specified.

| Technical Data | |
|-------------------------------------|---------------------------------------|
| Saponification base | Lithium complex |
| Colour | light yellow |
| NLGI class (DIN 51818) | 2 |
| Temperature range | -30 °C to +150 °C (-22 °F to +302 °F) |
| Permanent lubrication | +200 °C (392 °F) |
| Short period | |
| Basic oil viscosity at 40 °C | 100 mm ² /s |
| Drop point (DIN ISO 2176) | above 260 °C (500 °F) |
| Worked penetration (DIN ISO 2137) | 265 to 295 |
| Water resistance (DIN 51 807 T1) | 1-90 |
| Corrosion protection (DIN 51 802) | Corrosion grade 0 |
| Meets specifications | MAN 284, MB 265.1 and exceeds MB 267 |
| Designation according to DIN 51 502 | KP 2P-30 |

SIG 3000



Super impact grease for fleets and heavy equipment.

- Multi-purpose grease fortified with special additives enabling it to withstand the heavy impact and pounding pressures common to heavy equipment
- Special additive package allows the grease to stay in place and not to spatter or pound out of the bearing or grease fitting
- Long-lasting under extreme pressure and heavy impact
- 65,000 psi/65 Timken load*
- Temperature resistance to 285 °C (545 °F)
- Superior water resistance and resists most acids, dirt, salt spray, steam, dust, dirt and weather
- Contains extra rust, corrosion and oxidation inhibitors
- Synthetic formula will not burn grass on golf courses

* Timken load is a qualitative measure that indicates the possible performance of extreme pressure additives (EP). A measure of 35 or higher indicates the presence of extreme pressure additives. EP additives are especially beneficial in applications that experience high axial or thrust loads. EP additives are also shown to reduce fatigue on bearings.

Application:

Recommended for heavy equipment and fleets. As well, any application where high heat and/or pressure is present, ie: food plant steam room*, mining operations, etc. Also excellent for motorcycle and snowmobiles as it won't fling off important parts.

Note: Greases are delivered in plastic cartridges! The plastic cartridges improve storage (they prevent the grease from oozing out in high temperature conditions). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and aggregate manufacturers must be observed! For further information see the technical information leaflet.

Recommended:

Hand-Lever Grease Gun **Art. No. 986.00**

| Technical Data | |
|------------------------------|-------------------|
| Colour | Green |
| Thickener | Clay |
| Penetration (ASTM D-217) | 245-265 mm |
| *NL GI Grade | 2.5 |
| Dropping Point (ASTM D-556) | +288 °C (+550 °F) |
| Timken OK Load (ASTM D-2509) | 65 lbs |
| Water resistance | Excellent |
| Acid resistance | Excellent |
| Rust resistance | Excellent |
| Base oil viscosity | |
| SUS @100°F | 800 |
| cSt @ 40°C | 66 |
| SUS @ 210°F | 151 |
| cSt @ 100°C | 11.7 |

| Contents | Art. No. |
|------------------|-------------------|
| 397 g | 890.401000 |
| 20.4 kg (45 lbs) | 890.401001 |

LOW TEMPERATURE SYNTHETIC GREASE



A synthetic heavy-duty, multi-purpose lubricant with PTFE micro powder.

Features:

- Product carries a synthetic base with added PTFE micro powder to make a lubricant with long lasting protection against friction, wear, rust and corrosion.
- Stable under extreme temperature conditions (from -43°C/-45°F up to 232°C/450°F). It will not melt, evaporate, separate or form gummy deposits due to temperature changes.
- Impervious to salt water.
- Dielectric and compatible with most other greases.
- Does not contain silicone. Safe to be used in body shop environments.
- NSF H1 registered food grade lubricant.
- Environmentally friendly and biodegradable.
- Carries the Kosher certification.

Application:

Can be used in hubs, axles, chassis, shocks, springs, wheel bearings, fifth wheels, trailer and buddy bearings. Suitable for caliper assembly and as a bearing grease. Designed to be used in food processing equipment, dielectric applications as a battery protector, weight and fitness equipment, lawn movers, garage doors, snow blowers, sewing machines, garden and farm equipment

| Colour | Contents | Art. No. |
|-------------------|----------|----------------|
| Translucent White | 397 g | 890.602 |

PREMIUM MOLY GREASE



Non-melt grey coloured lubricant containing molybdenum disulphide.

- Fortified to provide anti-wear and low friction performance through a wide temperature range.
- The molybdenum disulfide enables reduction of friction and protects against excessive wear from extreme loads, galling and seizing.
- The protective mechanism of Würth Premium Moly Grease, acts by plating the metal surfaces, imparting extra protection and extending the lubrication cycle.
- Exceptionally resistant to most acids, salt spray, steam, dirt, dust, water, oxidation and weather.
- Has excellent adhesive and cohesive properties, as well as high shock protection.
- Protects equipment indoors or outdoors, even under high temperatures and heavy loads.

Technical Data

- Moly for Extra EP Ability.
- 288°C (550°F) Dropping Point
- Non-melt grease
- 65 Timken OK Load
- Weather Resistant
- Excellent lubricity and a low coefficient of friction

Areas of Application:

Construction equipment, farm equipment, cotton gins, bottling plants, automotive, marine, steel mills, industrial plants, oil field equipments, paper mills, asphalt plants, trucking industry

| Colour | Contents | Art. No. |
|-----------|----------|----------------|
| Dark Grey | 397 g | 890.603 |

PREMIUM WHITE LITHIUM GREASE



Art. No. 893.10411 396 g

All purpose white spray lubricant

- Lubricates and protects against corrosion
- Reduces friction and wear on all moving parts
- Safe on paints and plastics
- Water resistant
- Withstands moisture and high heat
- Good resistance to washout
- Stainless and non-toxic
- Temperature range: -5 °C to +110 °C (23 F to +230 °F)

Application:

Lubrication of door hinges hood latches, trunk latches, hatchback struts, seat tracks, jacks, winches, gear shift mechanisms, steering linkages, garage door and delivery truck door tracks. Ideal for all types of metal to metal lubrication.

WHITE LITHIUM GREASE



Adherent lubricating white grease

- Displaces water
- Anti-corrosive
- Will not run on vertical surfaces
- Temperature range: -10 °C to +120 °C (14 °F to 248 °F)

Applications:

Door strikers, door locks and hinges, brake parts, safety check straps on doors, switching mechanisms, hood strikers, hood hinges, truck strikers

| Description | Art. No. |
|-----------------|-------------------|
| 300 g Spray Can | 893.870300 |
| 200 g Tube | 893.870200 |

TRUE GLIDE



Heavy-duty, multipurpose synthetic grease with PTFE

Features:

- A synthetic lubricant that provides long-life protection against friction, wear, rust, and corrosion
- Compatible with most other lubricants and will not run, drip, evaporate or form gummy deposits
- Will not melt or separate
- It is an excellent dielectric and operates over a temperature range from -42 to 232 °C (-45 to 450 °F)
- NSF approved for incidental food contact (H-1). NLGI grade 2
- Compatible with most rubbers and plastics
- Silicone-free

Applications:

- Ideal for use on plain, anti-friction, ball, roller and wheel bearings, cams, slides, valves, conveyors, chains, hubs, axles, shocks, springs, etc.

Directions:

- Clean and dry area to be treated. When using on bearings, wipe clean before pumping grease to avoid contamination. Do not over-grease, as excessive heating may result. Periodically clean and repack bearings with fresh grease. For best results, purge other greases before use. Re-apply as necessary.

| Container | Contents | Art. No. | P. Qty. |
|-----------|----------|----------------|---------|
| Tube | 150 g | 893.899 | 1 |

SILICONE SPRAY GREASE



Art. No. 893.223 447 g

White coloured, water-displacing and insulating silicone grease

- Outstanding sliding capability on almost all surfaces
- Extremely high water-displacing properties
- Very high electrical resistance, thus very good insulating properties (= 14.7 kV/mm)
- Temperature resistance range from -40 °C to +300 °C (-40 °F to +572 °F)
- Colour: transparent when sprayed, after application a white film of lubricant remains on the treated surface

Application Areas:

Suitable for lubricating door bolts, glide rails, door and furniture hinges and drawers, etc. Also suitable for protection against moisture and corrosion in electrical components and wiring. Also ideal for lubricating switches.

SILICONE SPRAY



- The useful temperature range of the lubricant film of Würth Silicone spray is approximately: -20C to 150C
- Anti-static
- Ozone friendly
- Will not stain
- Also serves as a lubricant
- Leaves high shine to plastic parts such as bumpers, radiator grills, spoilers, lining strips, vinyl roofs, etc.
- Prevents these parts from becoming porous

- Maintains rubber parts such as door and hood rubber sealings, rubber buffers, bumper strips, radiator tubes, etc.
- Ideal for suppressing squeaks on internal trims
- Protects electrical contacts against dampness
- Ensures easy sliding of sun-roofs, seat rails and belt rollers, etc.
- Serves as an assembly aid for tube connectors

| Description | Contents | Art. No. |
|-------------|----------|-------------------|
| German | 305 g | 893.221 |
| Domestic | 320 g | 893.221320 |

PREMIUM SILICONE SPRAY



Art. No. 893.92211 276 g

Excellent lubricant made out of 100% pure viscosity silicone and release agent.

For use in the automotive, industrial and household areas

Automotive:

- Lubricates and prevents squeaks of rubber parts around windows, doors, trunk lids, mounts and contact points on hoods
- Prevents rubber from freezing and sticking to metal and keeps it flexible
- Waterproofs electrical and ignition systems
- Spray and buff to rust-proof chrome and other metals

Industrial:

- Adds longer life to cutting blades
- Lubricates, waterproofs and rustproofs machinery
- Use on conveyor belts and as a release agent for heat sealing equipment

Household:

- Lubricates garage doors, windows, doors, drawers and cabinets
- Rustproofs tools and barbecues

FOOD GRADE SILICONE SPRAY



Art. No. 893.221001 386 g

High quality, physiologically safe anti-friction and release agent.

Can be used in areas in which food is processed or stored. In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

Contains highly concentrated high-quality silicone oils

- Optimum anti-frictional and lubricating properties
- Prevents sticking
- Eliminates unpleasant squealing noises
- Prevents wear

Extremely good temperature resistance from -40 °C to +232 °C (-40 °F to +450 °F)

Wide field of application, also in the field of high temperatures and as a mould release agent

Colourless, non-colouring

- Can be used on bright backgrounds
- No discolouration in the case of occasional contact with the product

Safety product

- Non-toxic
- Non-chlorinated
- Especially user-friendly and safe handling
- Improved workplace safety and health protection
- Reduced marking with danger symbols

Good material compatibility

Moisture repellent, protects e.g. rubber parts against frost

Application:

As an anti-friction agent and for the lubrication of all moving parts of machines, especially in the field of plastics, in automotive engineering, in the food, pharmaceutical, printing and paper industries. Also as a mould release agent in the plastics processing industry and for the protection and care of surfaces.

| | |
|-------------------|--|
| Chemical basis | Silicone |
| Colour | Clear |
| Temperature range | -40 °C to +232 °C (-40 °F to +450 °F) |
| Odour | Mild odour |
| Specific Gravity | 0.726 |

SILICONE LUBRICATING COMPOUND



Art. No. 890.2211 226 g

100% Silicone Lubricating Compound

- Excellent general rubber and plastic lubricant
- Provides a moisture barrier
- Will not cause rubber brake components to swell
- Ideal for lubricating rubber parts in brake system, as well as slider pins during assembly
- Shelf life: 12 months
- Temperature range: -56 °C to +230 °C (-69 °F to +446 °F)
- NSF Certified

CU 800



Resistant to high temperature and pressures, highly adhesive copper lubricating, release and corrosion protection paste

Very high resistance

- Temperature range from -40 °C to +1200 °C (-40 °F to +2192 °F)
- Resistant to water, alkaline solutions and acids

Great, long-lasting lubricating effect

- Provides long-term protection against burning-on and seizing, cold welding, wear, corrosion and frictional corrosion

Silicone-free

Use:

Brakes:

- Back sides of disc brake pads (prevents squeaking), fastening and individual parts

Battery terminals:

- Contact protection, nozzles of arc welding torches (prevents formation of welding beads)

Seals:

- Prevents baking on of solid seals

Miscellaneous:

- Screw connections (exhaust manifold screws, spark plug threads, etc.), bearings, pivot points, joints, sliding surfaces

| Consistency | Art. No. | Qty. |
|------------------------------------|-------------------|-------|
| CU 800 Anti-Seize Spray | 893.800 | 198 g |
| CU 800 Anti-Seize Paste | 893.8001 | 100 g |
| CU 800 Anti-Seize Paste | 893.8002 | 1 kg |
| CU Copper Paste | 893.8003 | 300 g |
| Anti-Seize Copper Paste with brush | 890.920284 | 283 g |

AL 1100



High temperature aluminum paste with excellent adhesive lubricating properties and corrosion protection

- Temperature resistant from -80 °C to +1100 °C (-112 °F to +2012 °F)
- Aluminum copper based high performance anti-seize lubricant
- Resistant to water, alkalis and acids
- Prevents seizing, fusing, wear and corrosion

Applications:

- Brakes
- Batteries
- Battery terminal posts
- Gaskets
- Screw connections
- Exhaust

| Consistency | Art. No. | Qty. |
|---------------------------|------------------|-------|
| Aluminum Anti-Seize Spray | 893.1100 | 249 g |
| Aluminum Anti-Seize Paste | 893.11010 | 1 kg |

MOLY 50S



High performance extreme pressure lubricant

Features:

- Smooth, non-separating and non-hardening formulation, provides extreme pressure lubricating properties
- Temperature resistance up to 343 °C (650 °F)
- Free from lead, copper, and halogenated compounds
- NLGI grade 1
- Withstands pressures up to 500,000 psi
- Meets requirements of MIL-T-83483

Application:

To prevent corrosion, galling, seizing and galvanic pitting between metal parts such as nuts and bolts, valve assemblies, boom guides, chain drives, shafts, taps and drills, press assemblies, metal fittings, pipe fittings, pump mountings, and gaskets.

| Container | Contents | Art. No. | P. Qty |
|---------------------|----------|-------------------|--------|
| Canister with brush | 284 g | 893.923290 | 1 |

12 **ADHESIVES** & **TAPES**

2 Adhesives
10 Tapes



COLD WOOD GLUE



Art. No. 892.100150 28 kg

For gluing all types of wood (hard, soft, and exotic woods and particle boards). Ideal for door and window construction, and for exterior gluing work

Features:

- Highly resistant to water
- Tested D3 and D4 quality according to DIN EN 204. Tested by Institute for Window Technology (Test Report No. 50524485)
- Universal use
- Transparent hardening with no visible glue joints
- Glue tap for convenient pouring

Areas of application:

- Indoor doors
- Stairs and handrails
- Living room, kitchen, and bathroom furniture
- Stationary edge coating with veneers and solid-wood strips
- Assembly, surface, board joints and block gluing
- Indoors with short-term exposure to flow-off or condensed water
- Outdoors protected against weathering

PUR RAPID CONSTRUCTION ADHESIVE



Art. No. 892.100102 - P. Qty. 1

PUR Rapid structural adhesive for high-strength bonded connections in trade and industry.

Features:

- Proven adhesive properties
- Proven water resistance D4 in accordance with DIN/EN 204 by ift Rosenheim
- Meets window construction requirements in accordance with WATT 91 DIN EN 14257 (WATT 91)
- The foaming of the adhesive makes it possible to fill the joints very well
- Due to the paste-like, thixotropic composition, the adhesive does not run or drip off and thus allows working on vertical areas of application
- Can subsequently be powder coated (30 min/+200 °C)
- Compatible with natural stone
- Silicone and solvent-free

Applications:

- Windows
- Doors and stair construction
- Carpentry
- Building trade
- Bonding corner angles
- Metal construction and various areas of industry

Notice:

- The viscosity of 1-K-PUR adhesives when processed at +15 °C is approximately double that when used at +25 °C.
- Sunlight discolours the adhesive but does not affect the adhesive strength.
- For the bonding of aluminum, copper or brass - Use only with chemically pre-treated or coated surfaces. These materials cannot be permanently bonded in an age-resistant manner without appropriate pre-treatment of the bonding surfaces
- Powder-coated workpieces should always be cleaned. Powder coatings with PTFE components do not bond reliably without pre-treatment.

| Technical Information | |
|---|---|
| Contents | 310ml |
| Container | Cartridge |
| Chemical Basis | Polyurethane |
| Colour | Transparent, yellowish |
| Density | 1.12g/cm ³ |
| Density/conditions | 1.12 g/cm ³ / at 20 °C, EN 542 |
| Min. combined tension and shear resistance | 14 N/mm ² |
| Min./max. processing temperature | 7 to 35 °C |
| Min./max. temperature resistance | -30 to 110 °C |
| Max. short-term temperature resistance | 200 °C |
| Min./max. temperature resistance of the hardened material | -30 to 110 °C |
| Min. flashing point | 169 °C |
| Shelf life from production/conditions | 15 Month / at 15 °C to 25 °C |
| Silicone-free | Yes |
| Solvent-free | Yes |
| PVC-free | Yes |

PLASTIC WELD GLUE KIT



**Ideal for use with plastic repair systems.
Great for fibreglass repairs.**

Glue:

- A medium-low viscosity, one part cyanoacrylate performance adhesive that polymerizes very rapidly when pressed into a thin-film between parts
- Can be used on many substrates including plastic, rubber, and some metals - highly resistant to aging and weathering

Accelerator:

- A non-flammable, general purpose solvent-based speedset for cyanoacrylate adhesives
- It is recommended for use when: a fast cure is needed when bead of adhesive must be cured, bonding porous material, gap filling is required, or bonding parts where acidic residue is on the surface
- Flash-off is quick so that the cyanoacrylate adhesive can be applied almost instantaneously over treated areas
- The solvent will not affect most common materials, but will attack polycarbonate and some other plastics.

| Description | Contents | Art. No. |
|-------------------|----------|-------------------|
| Weld Kit | 2 pcs. | 893.910121 |
| Glue | 19 mL | 893.910122 |
| Spray Accelerator | 59 mL | 893.910123 |

REARVIEW MIRROR ADHESIVE



Art. No. 893.40

- Initial bonding time: 10 seconds only
- 60 % of final bonding strength reached after 15 to 20 minutes, 100 % after 24 hours
- Bonded parts can be handled after 6-3 minutes
- Suitable for bonding e.g. interior mirror to the windshield, window catches and hinges to hinged windows
- Not suitable for plastic holding devices
- Solvent free
- Excellent chemical resistance
- Produces a shock-resistant waterproof and flexible joint
- Content: 5 applications per 2 part bonding kit

"CLASSIC PLUS" WINDSHIELD ADHESIVE



Art. No. 890.023701 310 mL

Elastic 1-component windshield adhesive with very good stability.

Features:

- Universal application for common vehicles
- Suitable for antennas; non-conductive
- Prevents contact corrosion
- Suitable for use on aluminum, magnesium and hybrid vehicle bodies (e.g. Audi A8, Jaguar XJ etc.)
- Safety tested
- Drive-away time confirmed via crash testing and TÜV certificate pursuant to FMVSS208/212!
- Meets OEM requirements (motorvehicle manufacturers)

Areas of application:

- Replacement windshields of cars & utility vehicles, as well as buses, transport vehicles, agricultural & construction machines

Recommended:

Würth Varioprimer **Art. No. 890.024021**

W-Sol Residue Remover

Liquid **Art. No. 890.113**; Aerosol **Art. No. 890.1130**

Glass Cleaner Premium **Art. No. 890.9026**

| Technical Data | |
|----------------------------|--------------------------------------|
| Chemical basis | 1K polyurethane (moisture hardening) |
| Colour | Black |
| Application Temperature | +5°C to +35°C |
| Processing time | 15 min* |
| Storage temperature | +5°C to +25°C |
| Drive-away time w/o airbag | 1 h* |
| Drive-away time w/ airbag | 2 h* |

*Measured at 23°C/50% relative humidity.

WINDSHIELD ADHESIVE DAUBER



Art. No. 891.100510

- Wool dauber with a 3 1/2" metal ring handle
- Pack qty.: 6
- Multi-purpose; can be used for other applications as well

VARIOPRIMER



Art. No. 890.024020 20 mL

Features:

- Black, moisture-hardening primer for promoting adhesion of the windshield adhesive on glass, ceramic silkscreen printing, lacquer and various metals.
- Corrosion protection for bare metal surfaces.
- Activator for beads and PU/PVC pre-coated windscreens.
- UV-protection for windscreen adhesive.

| Basic Information | Classic Plus |
|-------------------------------|----------------|
| Colour | Black |
| Application Temperature | +10°C to +35°C |
| Flash-off times when used as: | |
| • Primer | 15 min* |
| • Corrosion Protection | 15 min* |
| • Activator | 15 min* |

*Measured at 23°C/50% relative humidity.

KLEBFIX SUPER GLUE



- For extremely fast connection of any combination of rubber, plastic and metal parts to one another
- Contains no solvents but contact with skin and eyes should be avoided because of instant adhesion
- NSF Certified

Application Information:

Excess liquid adhesive can be removed with acetone or nitromethane. Dried adhesive can only be removed mechanically, under application of heat of 200 °C to 250 °C (392 °F to 482 °F) and with gasket remover Art. No. 893.1000. Before application of gasket remover please check surface for compatibility.

Safety Precautions:

Caution! Prevent any contact to skin and eyes. Contains cyanoacrylate which ensures immediate adhesion. In case of contact with eyes or internal organs, consult a medical doctor. When using super fast glue, ensure that rooms are well ventilated. Keep out of reach of children.

| Contents | Art. No. |
|----------|----------------|
| 19 mL | 893.09 |
| 50 g | 893.090 |

KLEBFIX SUPER GLUE - GEL FORM



- Cyanoacrylate engineered adhesive for smooth and porous materials
- For bonding of metal, cork, cardboard, glass, wood, leather, rubber, plastics (e.g. PVC, ABS, polystyrene), porcelain and ceramics
- Does not run off vertical surfaces
- Temperature resistant from -60 °C to +80 °C (-76 °F to +176 °F)

- Very good chemical resistance
- Economical in use

Safety Precautions:

The thinner the layer of adhesive the higher the strength of the bond.

| Contents | Art. No. |
|----------|-----------------|
| 3 g | 893.403 |
| 20 g | 893.4031 |

KLEBFIX EASY PEN



Art. No. 893.090030 30 g

In the innovative, patented Easy Pen design

- Even easier, more practical handling
- Fits ergonomically in your hand
- The base of the Easy Pen provides stable, secure support
- The lever permits easy, problem-free use without great force
- High-precision work possible
- Requires less effort from the user
- Allows the user to work longer without fatigue
- The lever presses into the softest part of the bottle, allowing the bottle to be made of hard material, to help prevent moist air from penetrating the bottle and causing the adhesive to harden

Patented special closure

- One-hand application possible without problem.
- The adhesive can be measured precisely.
- The nozzle does not become clogged

Joins in seconds

- Joined parts can be further processed immediately.
- Simple designs are possible without additional attaching parts.
- High curing temperatures are usually not necessary.
- Outstanding suitability for quick repairs.

Contains 50% more glue than our regular Art. No. 893.09

Note:

It is recommended to wear protective gloves and goggles.

ADHESIVE REMOVER - KLEBFIX DEBONDER 2.0



Art. No. 893.099220 20 mL

Assists in the removal of cured cyanoacrylate adhesives

Features:

- Innovative DOS-system cap allows for problem-free one handed use and precise dosing

Benefits:

- Easy disassembly of joints, and removal of excess adhesive
- Slow evaporating for longer reacting times

KLEBFIX FLEX



Art. No. 893.092 20 g

Tough and flexible black cyanoacrylate with excellent thermal stability

High impact and peel resistance

Increased moisture resistance

For the adhesion of metal, plastic, and rubber parts with and to each other

Patented special cap

- Problem-free, one-handed use
- Precise dosing
- The tips do not clog

Bonds in seconds

- Immediate further processing possible
- Fast repairs
- Simple designs without additional fastening materials possible
- Increased temperature usually not necessary

Solvent-free

Properties:

This special product toughened with rubber is excellent for all applications under thermal/climatic conditions, such as heat and humidity. Excellent resistance against dynamic loads like impacts or vibrations.

High impact and peel resistance. Because of its short term temperature resistance up to +140 °C (284 °F), it is also suitable for SMD technique (surface-mount devices), where a soldering bath is used. The black colour is also excellent for use in loudspeaker assembly.

Note:

It is recommended to wear protective gloves and goggles.

| Technical Data | |
|------------------------------------|--|
| Colour | Black |
| Chemical base | Cyanoacrylicacid-ethylester |
| Physical Properties (liquid) | |
| Viscosity | 200-400 mPas at 25 °C |
| Density | 1.06g/cm ³ , DIN 51757 |
| Flashpoint | 87 °C (189 °F) DIN 55213 |
| Temperature Range | -55 °C to +120 °C (-67 °F to +248 °F) |
| Final strength | 24 hours |
| Physical Properties (cured film) | |
| Tensile shear strength on aluminum | 16 N/mm ² , DIN EN 1465 |
| Shore D hardness | 65 - 75 |
| Elongation | > 8% |
| Melting point | +165 °C (329 °F) |
| Temperature Range | -55 °C to +120 °C (-67 °F to +248 °F) |
| Curing time on: | |
| Aluminum | 25-45 seconds |
| SBR | 10-15 seconds |
| EPDM | < 60 seconds |

PLASTOBOND



Art. No. 893.091 20 g

For bonding of difficult plastic materials, such as PA, PBT, PET, PI, POM, TPE, TPO, filled elastomers and natural rubber.

Patented special closure

One-hand application possible without problem. The adhesive can be measured precisely. The nozzle does not become clogged

Joins in seconds

Joined parts can be further processed immediately. Simple designs are possible without additional attaching parts. High curing temperatures are usually not necessary. Outstanding suitability for quick repairs.

Solvent-free

Caution: It is recommended to wear protective gloves and goggles.

TECHNICAL DATA

Physical properties

| | Klebfix | Plastobond | Klebfix Flex |
|------------------------------|----------------------------|----------------------------|----------------------------|
| Chemical | Cyanoacr. acid ethyl ester | Cyanoacr. acid ethyl ester | Cyanoacr. acid ethyl ester |
| Colour | colourless | colourless | black |
| Viscosity in mPa.s | 20 - 40 | 500 - 700 | 200 - 400 |
| Density in g/cm ³ | 1.06 | 1.04 | 1.06 |
| Elongation | < 2% | < 3% | < 4% |
| Max. bonding gap in mm | 0.10 | 0.15 | 0.20 |
| Temperature range | -30°C to +80°C | -55°C to +105°C | -55°C to +120°C |
| Shelf life | 12 months | 12 months | 12 months |

Typical bonding times (sec)

| | Klebfix | Plastobond | Klebfix Flex |
|---------------|---------|------------|--------------|
| Steel | 60 - 90 | 30 - 40 | 90 - 120 |
| Aluminum | 60 - 90 | 30 - 40 | 40 - 60 |
| PA | 20 - 30 | 30 - 40 | 45 - 90 |
| PVC | 20 - 30 | 30 - 40 | 45 - 90 |
| Polycarbonate | 10 - 15 | 10 - 20 | 60 - 100 |
| POM | 30 - 40 | 30 - 40 | 60 - 90 |
| EPDM | 5 - 9 | 10 - 20 | 10 - 30 |
| Neoprene | 3 - 5 | 10 - 20 | 10 - 30 |

Typical combined tensile and shear strength values (N/mm²)

| | Klebfix | Plastobond | Klebfix Flex |
|---------------|----------|------------|--------------|
| Steel | > 22 | > 22 | > 25 |
| Aluminum | > 16 | > 17 | > 19 |
| PA | 8 - 12 | 10 - 30 | 15 - 20 |
| PVC | 10 - 20* | 10 - 20* | 15 - 20* |
| Polycarbonate | 10 - 20* | 10 - 20* | 4 - 6* |
| POM | - | 7 - 12 | 1 - 2 |
| EPDM | > 10* | > 10* | > 10* |
| Neoprene | > 10* | > 10* | > 10* |

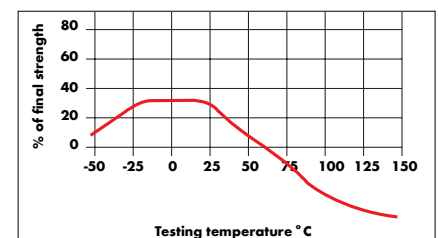
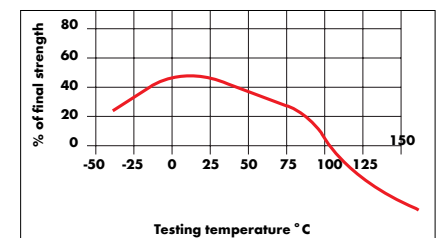
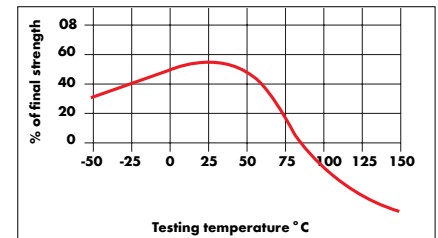
The surfaces to be glued must be clean and free of gease

* Material breakage

Combined tensile and shear strength in accordance with DIN EN 1465 (testing temperature after 24 hours)

With this information we want to advise you to the best of our knowledge based on our tests and experience. However, we shall assume no liability for the application results in individual cases caused by large numbers of applications and storage and application conditions which lie outside the scope of our influence. This also applies to the use of the non-binding technical and commercial customer service we provide. We always recommend that you conduct your own tests. We guarantee the consistent quality of our products. We reserve the right to make technical changes and carry out further development.

*** Material breakage**



MOULDING ADHESION PROMOTER



Art. No. 893.990029 220 mL

- Should be used on plastics to improve the adhesion of acrylic foam tapes to exterior and interior trims involving injection moulded and plastic parts
- Should be used on TPO, PPO, PG, PC and ABS and any other plastics having adhesion problems
- Improves adhesion
- Easy application
- Dries fast

RUBBER PROFILE ADHESIVE



Rubber based glue for universal application.

- Fast drying adhesive to work on many different substrates such as rubber profiles (solid, foam, natural), leather, linen, rigid PVC, plastics, wood, metals (bare, primed, painted), cork, cardboard and paper.
- Can be used to glue door and window rubbers, gaskets, insulation mats and cladding in cars, caravans and boats.

Characteristics:

- Fast drying.
- Resistant to water, gasoline, sea water, weak acids and alkali.
- Colorless after drying.
- Easy application with the brush included.

Applications:

- The substrates must be dry and free of grease and dust. The applicator brush included with the tin can be used to apply the glue.
- Adhesive must be applied at room temperature. Cooled product must be brought up to room temperature before application and the product should not be used below 18°C.
- When applying the product, the glue needs to be applied evenly on the intended surfaces.
- Once the bonding substrates make contact apply pressure on the surface for 8 to 15 seconds. The pressure that needs to be applied on the surfaces for bonding depends on the hardness of the material.

THIS PRODUCT IS NOT DESIGNED FOR LAYING CARPETS.

| Colour | Quantity | Art. No. | P. Qty. |
|--------|----------|-------------------|---------|
| Amber | 250ml | 890.100014 | 1 |

SPRAY ADHESIVE



Art. No. 890.910055 340 g

Fast drying adhesive for a variety of materials

- Long lasting adhesion of plastic, felt material, foamed material, cork, foil and paper
- Moisture resistant
- Temperature resistance from -30 °C - +70 °C (-22 °F to +158 °F)
- Drying time: 10-20 minutes depending on surface
- Adjustable nozzle

SPRAY ADHESIVE - HIGH STRENGTH



Art. No. 890.100056 294 g

Extra strong instantly effective film adhesive. Especially for adhesion of porous surfaces, i.e. felt, cloth, foam material and fabrics

- The adhesion properties are specially designed for requirements in vehicles, i.e. for adhesion of noise suppression pads
- Temperature resistant up to 70 °C
- Drying time 10-20 minutes depending on surface
- Adjustable nozzle
- **Remove with W-Sol (Art. No. 890.113/890.1130)**

SELF-VULCANIZING SHRINK TAPE



Ideal for applications where heat shrink tubing cannot be applied. i.e. branchings, housings, etc.

- For the sealing of wiring, cables, etc. also used for the emergency sealing of radiator hoses
- Temperature resistant from -40 °C to +90 °C (-40 °F to +194 °F)
- Spec. through resistance: 10 ohms

| Length (ft.) | Width (in.) | Art. No. | P. Qty |
|--------------|-------------|-----------------|--------|
| 33 ft. | 3/4 in. | 985.0771 | 1 |
| | 1 1/2 in. | 985.0772 | |

VINYL ELECTRICAL TAPE



- 7 mil thick (0.18 mm)
- General all purpose black vinyl insulating tape
- Temperature range from -10 °C to +80 °C (14 °F to 176 °F)
- UL Listed and CSA Certified

| Length (ft) | Width (in) | Colour | Art. No. | P. Qty |
|-------------|------------|--------|-----------------|--------|
| 60 ft. | 3/4 in | Black | 894.1219 | 10 |
| | | Yellow | 894.1218 | |
| | | Orange | 894.1217 | |

BRUSHABLE ELECTRICAL TAPE



Art. No. 893.198010 118 mL

- Excellent for use in hard to reach areas, where the use of electrical tape or heat shrink tubing is impossible
- Insulates, seals and coats all in one step
- Coating will remain flexible and is waterproof
- Protection of vehicle wiring from corrosive influences such as street salt or calcium
- Colour: Black
- Temperature exposure range: -30 °C to +120 °C (-22 °F to +248 °F)
- Tacks up in 5 minutes/cures in 30 minutes

Note: Shake well for minimum 5 minutes.

ELECTRICAL INSULATING TAPES



VDE approved, DIN 40631-K 10

For insulation in the electrical installation sector

- Soft PVC-foil
- Approved acc. to VDE 0340 part 1/5.75
- Breakdown voltage up to 9 kV
- Thermal stability: +0 °C to +90 °C (+0 °F to +194 °F)
- High flexibility and good adhesive properties
- Resistant to wear and tear
- Resistant against thinned acids and alkalis
- Keeps good material characteristics after assembly even at high temperature differences

| Colour | Width mm | Thickn. mm | Length per roll | Art. No. |
|--------------|----------|------------|-----------------|----------|
| Black | 15 | 0.15 | 10 m | 985.101 |
| White | | | | 985.102 |
| Red | | | | 985.103 |
| Blue | | | | 985.105 |
| Yellow | | | | 985.107 |
| Green/Yellow | | | | 985.109 |

PVC ELECTRICAL INSULATING TAPE



Art. No. 985.201 19mm x 18.3m

985.201 is an economical grade electrical tape. The tape consists of a backing of plasticized polyvinyl chloride film, coated on one side with aggressive Rubber-Resin adhesive with good aging characteristics. No flagging or deterioration even with temperatures as high as 80° C.

UL Listed and CSA certified.

Application:

- For use as electrical insulation on joints and splices in wires and cable in accordance with the National Electrical Code.

| Properties | Unit | Average Test Values |
|-------------------------|--|---------------------|
| Total Thickness +/- 10% | mm (mil) | 0.17 |
| Adhesion to Steel | kg/25mm (oz/1") | >0.45 |
| Tensile Strength | kg/25mm (lb/1") | >7 |
| Elongation | % | >100 |
| Dielectric breakdown | kv | >7 |
| Colour | Matte Black | |
| Test Method | ASTM D-1000 | |
| Shelf Life | 12 months when stored in original carton at 73 F (23 C) and 65% relative humidity. | |

CELLULAR RUBBER EPDM SEALING TAPE



Weather and ageing-resistant sealing tape for permanent sealing. For more demanding requirements in both indoor and outdoor usages.

Features:

- Closed-cell foam for best possible freedom from leaks
- High material flexibility
- Excellent resistance against weathering, aging, UV and temperature
- Excellent material compatibility; solvent-free
- Very good abrasion resistance

Areas of application:

- High-quality motor vehicle seals
- Plumbing, ventilation, and air-conditioning
- Sheet-metal, steel and glass structures
- Housing industry
- Areas requiring insulating, impact dampening and sound deadening

Recommended:

Use with Safety Knife **Art. No. 715.66013**

Directions: Apply cellular rubber EPDM sealing tape to the application surface. The application surface must be dry and free of grease, dust, and chips. To achieve a strong seal, compress the tape during installation.

Featured in a 2014 Hyundai Technical Bulletin:

| Length (m) | Width (mm) | Thickness (mm) | Art. No. | Qty. |
|------------|------------|----------------|-------------------|------|
| 10m | 30mm | 3mm | 875.850330 | 1 |

Technical Data

| | |
|------------------------------------|-----------------------------------|
| Tape colour | Black |
| Foam material | EPDM cellular rubber |
| Adhesive | Acrylate dispersion, solvent-free |
| Application temperature | +5 °C to +30 °C |
| Temperature resistance | -30 °C to +100 °C |
| UV resistance (outdoor weathering) | Given |
| Shelf life at +20 °C | 24 months |

These notes are intended to provide our advice to the best of our knowledge, based on tests and experience. However, we cannot assume any liability for processing results in individual cases due to the wide variety of applications as well as storage and processing conditions beyond our control. This also applies in case our technical and commercial customer service is consulted free of charge and without obligation. We recommend carrying out individual tests. We guarantee the constant quality of our products. We reserve the right to make technical modifications and advanced developments.

Technical Tip: This Technical Tip provides information needed to eliminate a high pitched wind whistle noise that may be heard on some Hyundai RB Accent vehicles. The noise may be heard while driving at normal freeway speeds and is usually traced to the outside rear view mirror area. **Note:** This noise may also change in frequency with different fan blower speeds.

Applicable vehicles:

2012 Hyundai Accent (RB)

Repair: Wind noise from outside rear view mirror area



ELECTRICAL TAPE



Rubber Splicing Tape

Art. No. 894.1221 - 3/4" x 22 ft.

- Conformable self-fusing rubber electrical insulating tape
- Designed for low voltage electrical insulating and moisture sealing applications (up to 600 V)
- Rated up to 80 °C (176 °F)
- Excellent corrosion resistance to aluminum or copper conductors
- Compatible with solid dielectric cable insulations
- To be used on bolted connections, service drops, lightning connections, ground rod connections, motor leads, etc.



Super 33 + Vinyl Electrical Tape

Art. No. 894.1220 - 3/4" x 20 m (66 ft.)

- Premium grade, 7 mil thick (0.18 mm)
- Designed to perform continuously in temperatures from -18 °C to +105 °C (0 °F to +220 °F)
- Excellent resistance to flame, abrasion, moisture, alkalis, acids, corrosion and weather conditions (including ultraviolet exposure)
- Underwriters' Laboratories Listed and Canadian Standards Association Certified



Electrical Moisture Sealing Tape

Art. No. 894.1222 - 2 1/2" x 10 ft.

- 7 mil thick (0.18 mm)
- Flexible over wide range of temperatures from -18 °C to +38 °C (0 °F to +100 °F)
- Excellent resistance to abrasion, moisture, alkalis, acid copper corrosion and various weather conditions
- Highly resistant to ultraviolet light
- Insulates and seals all connections up to 600 V

WOVEN ROT PROOF TAPE



Art. No. 894.1230 3/4" x 25 m

PET cloth wire harness tape for high abrasion protection and high temperature resistance in 150°C areas.

This tape is the cost efficient solution for very high abrasion and high temperature areas on cable harnesses in the engine compartment. Its new-generation acrylic adhesive is compatible with new halogen-free cable jacketing materials (PE/PP) and provides enhanced durability. It is optimized for manual and automatic application.

Features:

- High abrasion resistance
- High temperature resistance 150°C/3000h
- Oil and fuel resistant
- UV resistant
- Flame retardant
- Moisture resistant
- Excellent compatibility with PVC-, PE- and PP-cable insulation
- Stable unwind strength
- Resistant to ageing
- Rot-proof
- Tear resistant
- Strong adhesion
- Flexible and smooth

| Technical Data | |
|---------------------------------|-------------------------|
| Backing material | PET cloth |
| Type of adhesive | Acrylic |
| Total thickness | 260 µm |
| Adhesion to steel | 5,5 N/cm |
| Elongation at break | 40% |
| Tensile strength | 275 N/cm |
| Temperature resistance | 150 °C |
| Unwind force (roll width ≤ 9mm) | 5 N/roll (30 m/min) |
| Unwind force (roll width > 9mm) | 11 N/roll (30 m/min) |
| Abrasion resistance (strokes) | Class D (acc. to LV312) |

| Properties | |
|---|-----------|
| Automatic application | Yes |
| Compatibility with PVC-, PE- and PP-wire jacketing material | Good |
| Resistance to oil, fuel and chemicals | Good |
| Halogen free | Yes |
| Fogging | Medium |
| Rot proof | Yes |
| Self-extinguishing | Yes |
| Temperature resistance | Very Good |
| Abrasion resistance | Very Good |

ADHESIVE TRIM TAPE



| Width | Length | Thickness | Art. No. | P. Qty. |
|----------------|-----------------|-------------------|----------|---------|
| 4 mm (5/32") | 10 m (32.8') | 0.8 mm (1/32") | 894.9104 | 1 |
| 12 mm (15/32") | | | 894.910 | |
| 19 mm (47/64") | | | 894.9100 | |
| 24 mm (15/16") | | | 894.9101 | |

| Technical Data | |
|---|--|
| Adhesive base | Acrylate adhesive |
| Carrier | Polyethylene (anthracite) |
| Adhesive strength | 19 N / 25 mm |
| Elongation at rupture | > 300% |
| Application temperature | +5°C to +40°C (+41 °F to +104 °F) applies to surface and adhesive tape |
| Temperature stability | -40°C to +95°C (-40 °F to +203 °F) |
| Shelf life (at approx. +20°C (68°F) and 50% humidity) | 12 months |
| UV resistance | Yes |
| Moisture resistance | Yes |

High strength double-sided adhesive tape with polyethylene carrier and acrylate adhesive.

- Very strong adhesion. The tape provides outstanding adhesion immediately after installation of the trim. A high level of final adhesive strength is achieved after a curing time of 24 hours. Very strong adhesion also on rough and slightly uneven surfaces.
- Foam carrier. The tape has a vibration-damping effect and compensates for the expansion properties of two different materials.
- High temperature, UV and weather resistance. The tape can be used indoors as well as outdoors. Does not lose adhesion at higher temperatures.

Instructions for use:

- The surfaces to be joined must be dry and free from dust, grease and silicon.
- In order to assure perfect adhesion, sufficient pressure must be applied to the tape during installation.
- Optimal final adhesive strength is reached after 24 hours.
- In case of sensitive surface finishes (e.g. PP, PE, rubber) and porous surfaces (e.g. wood or stone), carry out a preliminary application test.
- In case of plastic materials to be joined containing plasticizer additives, these additives may change the adhesive layer and impair the strength of the adhesive (perform preliminary test).

Areas of application:

- Trim and functional metal strips, logos, emblems, screens and holding brackets in the automotive industry.
- Attachment of name plates on machines.
- For attachment of spoilers in connection with mechanical elements.

DOUBLE SIDED EMBLEM TAPE



Applications:

- Mounting of ABS plastic parts in the car industry
- Self-adhesive mounting of rubber/EPDM profiles

Art. No. 894.9102 - 3/8" width

Art. No. 894.9103 - 3/4" width

- Double coated adhesive transparent tape consisting of polyester film with release liner
- Adhesive system is especially resistant to plasticizers
- Offers secure bond even at elevated temperatures
- 8 mil thick, 180 ft. long
- Temperature range: from -50 °C (-58 °F) Short term: 200 °C (392 °F) Long term: 80 °C (176 °F)

MASKING TAPE



Art. No. 894.5524 - 24mm x 55 m

General purpose masking tape

- Made from a crepe paper coated with a quality natural rubber adhesive
- Suitable for masking of surfaces like walls, floors, furnitures, etc.
- Good adhesion on concrete, paint, wood, metal, plastic, glass, etc.
- Tape thickness: 0.14mm
- Temperature resistance: 90 °C (194 °F) for 60 min. approx.
- Colour: light yellow
- Qty: 36/box - 9/per sleeve

For automotive masking applications please use Art. No.'s 992.0019 - 992.0050

Note:

- Suitable only for indoor applications
- Avoid exposure to direct sunlight
- Remove the masking tape after max. 24/48 hours
- Store in a cool, dry place

WÜRTH MASKING TAPE



| Width in inches | Width in mm | Length in m | Thickness in mm | Art. No. | P. Qty. |
|-----------------|-------------|-------------|-----------------|-----------------|---------|
| 3/4 | 19 | 50 | 0.13 | 992.0019 | 16 |
| 1 1/2 | 38 | 50 | 0.13 | 992.0038 | 8 |
| 2 | 50 | 50 | 0.13 | 992.0050 | 6 |

| Technical Data | |
|--|--------------------|
| Adhesive base | Natural rubber |
| Carrier | paper, crème-white |
| Adhesive strength | 7.5 N / 25 mm |
| Elongation at rupture | 10% |
| Application temperature | +5 °C to +40 °C |
| Temperature stability | -5 °C to +80 °C |
| Shelf life (at approx. +20 °C and 50% humidity) | 12 months |
| UV resistant | No |
| Moisture resistant | Yes |

Paper masking tape for general masking applications.

Heat-resistant to +80 °C.

- The tape is also very well suited for painting work requiring baking.

Very good adhesion on smooth and painted surfaces.

Very good adhesion on all smooth surfaces in construction or automotive applications, e. g. painted metal, glass, chrome-plated parts or rubber. The tape can be removed immediately after painting without leaving any residue.

Moisture and solvent resistant.

- The tape is suitable for all painting work with all commonly available solvent-containing and water based paint and enamel systems.
- Also very well suited for wet sanding.

Instructions for use

- To assure residue-free removal, the tape must be removed immediately after drying of the paint or enamel.
- The masking tape is not UV-resistant and therefore not suitable for outdoor applications.

Areas of application:

- Painting and enamelling of automobiles requiring baking.
- Masking for house painting jobs, attachment of masking paper.
- Marking of cartons and cans.

HEAT RESISTANT MASKING TAPE



| Width in inches | Width in mm | Length in m | Thickness in mm | Art. No. | P. Qty. |
|-----------------|-------------|-------------|-----------------|----------------|---------|
| 3/4 | 19 | 50 | 0.18 | 992.619 | 16 |
| 1 1/2 | 38 | 50 | 0.18 | 992.638 | 8 |
| 2 | 50 | 50 | 0.18 | 992.650 | 6 |

| Technical Data | |
|--|---------------------------------------|
| Adhesive base | Rubber-resin adhesive |
| Carrier | Latex-impregnated crepe paper (brown) |
| Adhesive strength | 10.5 N / 25 mm |
| Elongation at rupture | 10.5% |
| Application temperature | +15 °C to +40 °C |
| Temperature stability | -20 °C to +110 °C |
| Shelf life (at approx. +20 °C and 50% humidity) | Up to 6 months |
| UV resistant | No |
| Moisture resistant | Yes |

High-quality masking tape for professional painting.

Heat-resistant to +110 °C.

- The tape is also very well suited for painting work requiring baking.

Latex-impregnated paper carrier.

- The tape is suitable for all painting work with all commonly available solvent-containing and water based paint and enamel systems.
- Also very well suited for wet sanding.

Very good adhesion and adaptability.

- Very good adhesion is assured on all smooth surfaces in construction or automotive applications, e.g. painted metal, glass, chrome-plated parts or rubber. The tape can be removed immediately after painting without leaving any residue.
- Even after wet sanding or oven baking, the tape still adheres very well to the masked surface.

Suitable for lettering.

The tape can be used for marking of cartons, cans, etc.

Instructions for use

- To assure residue-free removal, the tape must be removed immediately after drying of the paint or enamel.
- The masking tape is not UV-resistant and therefore not suitable for outdoor applications.

Areas of application:

- Painting and enamelling of automobiles requiring baking.
- Masking for house painting jobs.
- Attachment of masking paper.
- Marking of cartons and cans.

GOLD MASKING TAPE



Special paper tape for most demanding requirements for masking work in motor vehicle, metal and painting sectors.

- Extremely thin, adaptable, high quality special paper.
- Special paper is excellently suited for both solvent and water-based paint systems.
- Enables extremely exact masking work.
- Especially fine paint edges without paint running behind.

Special acrylate adhesive for especially gentle masking on sensitive surfaces.

Good adhesion and residue-free removal even on sensitive surfaces in motor vehicle and construction sector, e.g. on chrome strips, wallpaper and furniture.

Outstanding UV resistance of up to 6 months.

Maximum safety even for masking outdoors.

Heat-resistant up to +100 °C.

Excellently suited for painting work for which oven drying is required.

Areas of application:

- Covering work for painting in motor vehicle and metalworking sector, especially with sensitive surfaces. Excellently suited for oven drying.
- Covering work in painting sector, especially with sensitive surfaces and masking outdoors.
- Covering in glazing technology.
- Fastening of cover paper.

| Width in inches | Width in mm | Length in m | Thickness in mm | Art. No | P. Qty. |
|-----------------|-------------|-------------|-----------------|------------|---------|
| 3/4 | 19 | 50 | 0.08 | 992.000319 | 1 |
| 1 1/2 | 38 | | | 992.000338 | |

| Technical Data | |
|---------------------------------------|-----------------------------|
| Adhesive basis | Acrylate |
| Substrate | Japanese rice paper, yellow |
| Bonding strength | 5 N/25 mm |
| Elongation at tear | 4% |
| Processing temperature | +5 °C to +40 °C |
| Temperature resistance | Up to +100 °C |
| UV resistance (outdoor weathering) | Up to 6 months |
| Moisture resistance | Given |
| Shelf life at +20 °C and 50% humidity | 24 months |

Note: Tape must be pulled off when dry.



1 Ordinary masking tape:

Paint running behind can result in rough paint edges.

2 Precision masking tape:

Especially fine paint edges.

FIBRE REINFORCING TAPE

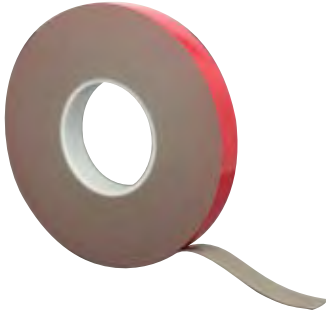


Art. No. 893.91015

O.E.M. recommended product for reinforcing all types of automotive plastic repairs - 20m roll (2" width)

- Contributes 35 % more strength to the structural repair
- Criss-crossing the tape application over the repair will add strength to high stress areas
- Sands evenly with filler

WÜRTH DOUBLE SIDED ACRYLIC TAPE



- High performance two way acrylic foam tape designed for bonding larger moldings and accessories
- High strength acrylic adhesive that provides superior adhesion to various types of plastics, metals, glass, wood and painted vehicle surfaces
- Instant pressure sensitive bonding
- Good initial, and cold temperature adhesion
- Will not absorb moisture
- Conforms to irregular surfaces
- Resists stress

| Roll Length | Width | Thickness | Art. No. |
|-------------|-------|-----------|-----------------|
| 18 m | 6 mm | 1.14 mm | 894.9106 |
| | 12 mm | | 894.9112 |
| | 22 mm | | 894.9122 |

HOOK AND LOOP SELF-ADHESIVE TAPE



| Description | Material | Colour | Width (mm) | Length (m) | Art. No. |
|-------------|---------------|--------|------------|------------|----------------|
| Hooks | Polyamide 6,6 | Black | 20 | 10 | 894.811 |
| Loops | (Nylon) | | | | 894.821 |

Areas of Application

- Attaching samples, components, coverings and closures for doors, suitcases and lids.
- Automobile, furniture, electronics and textile industry for decoration or advertising purposes.
- Adheres to smooth as well as rough surfaces.

Instructions for Use:

- Simply stick, rivet, nail or staple both elements in place.
- The mounting surfaces must be clean, dry, free from dust, grease, oil, parting agents or solvents.

- The elements can be washed at 60 °C (140 °F), chemically cleaned and ironed in closed condition.

Characteristics:

- Thickness of closure: Following DIN 53370, at closing pressure of 0.14+/-0.04 N/cm²=2.0 to 4.0 mm.
- Temperature stability range from -30 °C to +85 °C (-22 °F to +185 °F).
- Type of adhesive: melt-adhesive on rubber base.

| Hooks | Peeling strength | Shearing Strength |
|------------------------------------|---|-------------------------------|
| | | |
| After 1 x closing and opening | 2.3 (1.3) N/cm ² band width | 10.0 (6.0) N/cm ² |
| After 10,000 x closing and opening | Minimum 0.65 N/cm ² band width | Minimum 3.0 N/cm ² |



Adhesive element
Hooks

Connecting element
Loops



POLYPROPYLENE CARTON SEALING TAPE



- 1.8 mil thick.
- 2" wide x 118' length.
- Temperature resistance up to 70 °C (160 °F).
- Very good adhesion and shear resistance on most carton surfaces.
- For use with Tape Dispenser Gun, Art. No. 894.100.

| Colour | Art. No. | P. Qty. |
|--------|----------------|---------|
| Clear | 894.102 | 6 |

Use Polypropylene Carton Sealing Tape with:

Tape Dispenser Gun.
Art. No. 894.100



DUCT TAPE



Art. No. 894.260

Features:

- Offers easy tear and conformability.
- Meets UL 723, HUD, and BOCA codes.
- Low tack roll edges (48 mm) so edges stay cleaner for less surface contamination and less waste.
- Individual roll wrap (48 mm) that preserves integrity of the roll for less waste.
- Polyethylene coated cloth scrim that resists moisture to prolong tape bond.
- Good tensile strength for tough applications.
- Rubber adhesive that adheres aggressively to most surfaces for good holding power and a tight seal.

Application:

- Hanging polyethylene drapes for containment activities, industrial masking and sandblast overspray protection.
- Patching, reinforcing, bundling, moisture proofing, sealing, splicing, temporary repair.

- Taping and splicing insulation.
- Useful in the convention industry for holding and seaming carpet padding, taping down cords and hinging poster board panels.

| Technical Data | |
|-----------------------|---|
| Adhesion to steel | 55 oz./in. width (60 N/100 mm) |
| Tensile strength | 25 lbs./in. width (438 N/100 mm) |
| Elongation at break | 17% |
| Thickness | 9.0 mils (0.23 mm) |
| Temperature use range | Up to 200°F (93°C) |
| Flammability | Meets UL 723 (Flame spread 0, Smoke developed 30) |
| Backing | Waterproof polyethylene film over |
| Adhesive | Rubber |
| Colors | Silver |
| Standard roll length | 60 yds. (54.8 m) |
| Shelf life | 1 year from date of manufacture |

ALUMINUM FOIL TAPE



Art. No. 894.3311

Features:

- Aluminum alloy foil with a pressure-sensitive adhesive and paper liner.
- The aggressive rubber adhesive sticks well to most surfaces and the paper liner makes for convenient and reliable use.
- UL 723 rated for flame and smoke characteristics.
- Can be used under all weather conditions.
- Matches aluminum foil-faced duct systems and insulation.
- Designed for maximum adhesion over clean, dry surfaces. For best results, always use an application squeegee.
- Resists water vapour, odour and smoke transmission.
- Acts as a vapour barrier to insure the integrity of the insulation system.

Application:

- Ideal for sealing aluminum faced insulation seams and joints.
- General repair and maintenance.
- Temporary and emergency repair of metal surfaces.

| Technical Data | |
|----------------------------|----------------------------------|
| Adhesion to steel | 90 oz./in. width (98 N/100 mm) |
| Tensile strength | 17 lbs./in. width (298 N/100 mm) |
| Elongation at break | 3% |
| Total thickness (no liner) | 3.6 mils (0.09 mm) |
| Flame spread index | 10 |
| Smoke developed index | 5 |
| Temperature use range | -10 °F to +180 °F (-12.2 °C to |
| Backing | 2 mil aluminum alloy foil |
| Adhesive | Rubber |
| Color | Silver |
| Standard roll length | 10 & 50 yds. (9.14 & 45.7 m) |
| Shelf life | 1 year from date of manufacture |

PTFE TAPE



For sealing threaded connections

- Resistant to all aggressive media
- Temperature stability* -240 °C to +240 °C (-400 °F to +464 °F)
- Pressure resistant* to 25 bar (362.6 psi)
- No sticking or swelling, thus preventing seizing of the threaded connections
- Alignment of the threaded connection, including a limited amount of reversing, is permissible

* Since temperature and pressure are interrelated, a simultaneous load of maximum values is not possible. In addition, the specifications depend on the respective medium. Therefore, due to the wide variety of possible applications, this information can only serve as a guideline.

| Width (mm) | Thickness (mm) | Length (m/ft) | Surface-related mass g/m ² | Art. No. |
|------------|----------------|---------------|---------------------------------------|-------------------|
| 12 | 0.08 | 12 m/39 ft | 25 | 985.030165 |
| | 0.1 | | 60 | 985.030160 |

TESA COATED CLOTH TAPE



| Technical Data | |
|---------------------------------|----------------------|
| Backing material | Acrylic-coated cloth |
| Total thickness | 290 µm |
| Type of adhesive | Natural rubber |
| Adhesion to steel | 4.6 N/cm |
| Elongation at break | 7.5% |
| Tensile strength | 105 N/cm |
| Temperature resistance (30 min) | 180°C |
| Mesh | 145 count per square |

Temperature resistant acrylic coated cloth tape

Features & Benefits:

- Removable without residues even after high temperature exposure
- Very ageing-resistant (allowing for permanent applications)
- High resistance to paint solvents

Applications:

- Heat resistant masking during the production of vehicles and machines
- Window flange masking
- Even repeated oven drying possible
- Permanent interior and exterior hold covering
- Covering of screw tap holes and drainage boreholes
- Partial masking during treatment with impregnating agents
- Fastening of flat cables e.g. on roof linings, door panels, mirrors
- Masking during electrostatic powder coating

| Colour | Dimensions | Art. No. | Qty. |
|--------|--------------|-----------------|--------|
| Grey | 30 mm x 50 m | 894.4657 | 1 Roll |

TEFLON® THREAD SEALANT TAPE



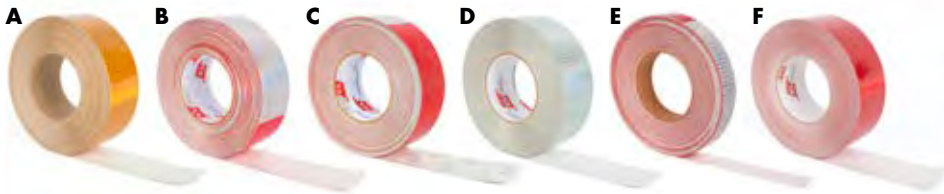
High density industrial sealant tape

- The ideal sealant for pipe thread connections
- Non-toxic and will not contaminate fluids or gases
- Chemically inert, it resists corrosive action of acids, alkalies and solvents
- Temperature range -268 °C to +260 °C (-450 °F to +500 °F)

© Registered Dupont trade name

| Width (inches) | Thickness (inches) | Length/Roll(inches) | Art. No. |
|----------------|--------------------|---------------------|----------------------|
| 1/2" | 0.004 | 540" (45 ft) | 884.121-M8PIN |

CONSPICUITY TAPE



Studies in the USA, Canada and Europe prove that early recognition of trucks and trailers at night can reduce the number of accidents by up to 41%! This reduces the risk for driver and vehicle, as well as keeping periods of downtime and costs to a minimum. Especially recommended for vehicles transporting dangerous goods.

If your vehicles are equipped with retroreflective prismatic foil complying with the ECE regulation, then you have performed a safety retrofit. Have a word with your insurance company about sharing the cost, and reap the benefits once more!

| Colour/Pattern | Application | Areas of Application | Length | Width | Kiss Cut | Art. No. |
|---------------------------|---|---|----------|-------|--------------|------------------|
| A Yellow | Rear and side of trailers, rigid surfaces, tarpaulins | Trucks and trailers, special-purpose vehicles, rescue services, fire brigades | 150 Feet | 2" | Not Kiss Cut | 894.4471 |
| B Red 6"/White 6" | | | | 2" | 24" | 894.4473 |
| C Red 11"/White 7" | | | | 2" | 18" | 894.4474 |
| D White | | | | 2" | 12" | 894.4475 |
| E White 11"/Red 7" | | | | 1" | | 894.44620 |
| F Red | | | | 2" | | 894.44630 |

Powerful protection against collisions

- Highly visible retro-reflective tape for trucks, trailers, etc.
Proven to reduce night-time accidents involving trucks by up to 21%, and day time accidents up to 16% (Vector Study 1985)
- The NHTSA reports a reduction of night-time side and rear impacts into marked trailers ranging between 29 % and 41 %
- The NHTSA also reports a reduction in fatal and injury accidents of 44 % in dark conditions
- DOT certified and guaranteed to meet and exceed NHTSA requirements
- Aggressive pressure sensitive adhesive
- High brightness
- Wide angularity to almost 90 ° from perpendicular
- Pre-sealed edges
- Non-metallic construction to prevent corrosion
- Reflective even under wet conditions
- 7 year lifespan
- * Würth branded, 3 year lifespan

Note: Remove tape with our DBS 3600 Metal Blaster, **Art. No. 703.3600**

SILICONE TAPE



Highly resistant, self-welding silicone tape for instant repairs and sealing applications

Features and Benefits:

- Very versatile
- Simple and fast application, making it ideal for use in breakdown & emergency service
- Water & air-tight seal in seconds
- Functions on damp or oily surfaces under water
- Can be removed without residue
- Permanently elastic

Areas of application:

- Boat & RV Hook Up
- Boat riggings
- Sport grips
- Wrapping tool handles
- Sealing and repair of piping and rubber/garden hoses up to a pressure of 8 bar (with 1" dia.)
- Sealing and repair of heating pipes, cooling lines, radiator hoses, fittings, water pipes, oil lines, garden hoses, pneumatic systems
- Wire bundles
- Air & dryer vents
- Seals electrical connections
- Protects against corrosion
- Clamps & holds glue parts

| Colour | Length (m) | Width (mm) | Thickness (mm) | Art. No. |
|--------|------------|------------|----------------|-------------------|
| Black | 3m | 25mm | 0.5mm | 985.077200 |

| Technical Data | |
|------------------------------------|---------------------------------|
| Adhesive | No adhesive, Self-fusing |
| Continuous operating temperature | -45°C to 200°C (-50°F to 400°F) |
| Intermittent operating temperature | -65°C to 260°C (-80°F to 500°F) |
| Cold brittle point temperature | -54°C (-65°F) (ASTM D2137) |
| Insulation | Up to 8,000 volts per layer |
| Tensile strength | 700 PSI |
| Stretch | 300% |
| Shelf life | Minimum 5 years |

| Performance Properties | Performance Level |
|--|-------------------|
| Moisture resistance, UV resistance, Ozone resistance, Corrosion prevention, Electrical insulation, Resilience, High temperatures | Excellent |
| Solvent resistance, Flame resistance, Abrasion resistance, Tear resistance | Good |
| Acid resistance, Oil resistance, Hydrocarbon resistance | Good - Fair |

SOFT MASK EASY FOAM MASKING TAPE



Quick, efficient way to seal door jambs, hood and trunk openings, fuel filler doors, sunroofs and other openings when painting or refinishing.

- Eliminates hard paint edges caused by flat masking tape.
- Protects vehicle interior against paint mist, dust and dirt during painting.
- Seals off moving parts such as doors, trunks, hoods, sun roofs, fuel filler doors, etc.
- Works well with water-based paints.

Features:

- Hand tearable
- Repositionable
- Highly flexible
- Withstands paint booth bake cycles
- Oval profile
- Easy-to-dispense carton
- Single sided adhesive removes easily and is residue-free

| Colour | Length | Width | Art. No. | P. Qty. |
|--------|--------|-------|-------------------|---------|
| White | 50 m | 20 mm | 818.300050 | 1 |



SHOP ONLINE NOW!

SHOP.WURTH.CA

13 SEALANTS & O-RINGS

- 2** Foam & Foam Guns
- 6** Weatherstrip & Accessories
- 8** O-Rings & Assortments
- 16** Sealants & Silicones
- 24** Threadlockers



PURLOGIC® XPRESS



Art. No. 891.1524

For professional application of 1-component gun foams

- Low intrinsic weight
- Easy, effortless handling
- Ergonomic handle shape
- Fits securely and comfortably in your hand
- Optimized sealing system
- A seal combination eliminates the need for readjustment of the needle seal
- Dosable outflow of foam
- Foam outflow quantity is variable adjustable - clean spraying pattern

Application:

A polyurethane foam can should always be screwed onto the PURlogic guns. The gun should be cleaned with PURlogic Clean (**Art. No. 892.160**) at regular intervals. Please read instructions carefully.

Note:

Suitable for use with Würth PURlogic TOP foam (Art. No. 892.142). When used with other polyurethane foam cans, the function should be tested beforehand.

PURLOGIC® PREMIUM PRESS GUN



Art. No. 891.152600

High-quality, PTFE coated metal gun for applying 1-component expanding foams

New, Improved & Completely Redesigned

- Comfortable, rubberised handle for firm hand grip
- Rugged gun body with PTFE-coated needle and threaded basket.
- Foam dispensing quantity can be adjusted for a clean spraying pattern
- Optimized sealing system
- Dosable outflow of foam
- Trusted high-quality foam gun
- Unique Würth design
- Lock button
- Ideal for slim joints and hard to reach areas
- Ergonomic design
- Long service life

Extension Nozzle: Art. No. 891.152601

Pack of 50 pieces

PURLOGIC® TOP



1K-Premium Foam for use with an extrusion gun

Small can, large yield

Foam yield up to 50 litres, freely foaming from a user-friendly, handy can.

Adapted to winter

Can be used even at environmental and subsurface temperatures of -5 °C (23 °F)

Tested product quality

Seam sound damping

Reduces disturbance from noise.

RST, w = 59 dB according to DIN 52210, tested by the Rosenheim Institute for Manufacturing Technology.

Heat conductivity

Reduces heat loss by 0.039 W/(mK) according to DIN 52612, as tested by the Materials Testing Institute of Hannover.

Air permeability

Prevents drafts. Tested according to EN 1026 by the Rosenheim Institute for Manufacturing Technology.

Water vapour permeability

Tested according to DIN EN ISO 12572, by the Rosenheim Institute for Manufacturing Technology.

Energy savings according to the Energy Saving Regulations

9 % savings in heating costs, as tested by the Fraunhofer Institute, according to DIN 18055 / EN204.

General Construction Site Inspection Test Certificate

Corresponding to Construction Material Class B 2, according to DIN 4102, Part 1, tested by the Materials Testing Institute of Hannover.

Other advantages:

- Fine-celled and even foam structure
- High dispensing speed
- High residual utilization
- Resistant to aging
- The "light ivory" colour is especially suited for the restoration of old buildings

Areas of application:

High-grade, secure sealer, filler and insulator for window joints, window sill gaps, pipe ducts, splices, wall joints, plaster cracks and cavities. Optical application verification (made possible by) the concrete grey colour.

Note:

Adheres to concrete, stone, hard PVC, metal and wood. No adherence to polyethylene, silicones, PTFE and grease.

| Contents | Colour | Art. No. |
|----------|---------------|----------------|
| 475 g | Concrete Grey | 892.142 |

| Technical Data | |
|---|---------------------------------|
| Apparent density* | 12 kg/m ³ |
| Cell size* | Medium fine |
| Non-adhering after about* | 6 min. |
| Can be cut after approx.* | 14 min. |
| Processing temperature* | 5 °C to 25 °C (41 °F to 77 °F) |
| Processing temperature of the environment and subsurface | -5 °C (23 °F) |
| Tensile strength according to DIN 53 430 | ca. 8 N/cm ² |
| Elongation at rupture according to DIN 53 430 | ca. 18 % |
| Shearing resistance according to DIN 53 427 | ca. 3 N/cm ² |
| Compressive stress at 10 % compression strain according to DIN 53 421 | ca. 2 N/cm ² |
| Assessed seam sound damping measurement | RST,w = 59 dB |
| Water absorption according to DIN 53 433 | ca. 0,3 Vol-% |
| Thermal conductivity | 0,039 W/mK |
| Temperature resistance | -40°C to +80°C (-40°F to 176°F) |
| Shelf life | 12 months |

PURLOGIC® CLEAN



For the removal of fresh PU foam

Highly effective

Dissolves all fresh foam contaminations quickly and easily

Optimized for use with PU foam guns

The 500-ml can is particularly well suited for cleaning of Würth PURlogic foam guns (Art. No. 891.1522)

Further advantages:

Also suitable for many guns by competitors. The 500 mL can comes with an additional spray head for exterior cleaning of foam guns and other surfaces

Note: Cleans and removes fresh excess PU foam from wood, metals and many types of garments. Not suitable for fully cured PU foam residue. May etch surfaces such as paintwork and plastics. Textiles may become lighter in colour or etched.

| Contents | Colour | Art. No. |
|----------|-------------|----------------|
| 390 g | Transparent | 892.160 |

PURLOGIC® EASY



1-component installation foam for easy application.

Small can, high yield (high expansion)

The user-friendly, handy can yields up to 35 litres of foam.

Winter-proof

Usable at surface and ambient temperatures as low as -5 °C (23 °F).

Certified product characteristics

Suitable for wells and civil engineering applications

Suitable as foaming adhesive for joining and filling of joints between well elements according to DIN 4034, Part 2, certified by State Trade Authority Bavaria.

Joint sound insulation

Reduces noise according to DIN 52210, as tested by ift Rosenheim.

Thermal conductivity

Reduces heat loss at 0.033 W/(mK) according to DIN 52612, as tested by MPA Hanover.

Air permeability

Prevents air drafts, as tested according to EN 1026 by ift Rosenheim.

Water vapour permeability

Tested according to DIN EN ISO 1257 by ift Rosenheim.

Energy saving according to EnEV

Heating costs savings of 9%, in comparison to stuffing materials, as tested by Fraunhofer Institute following DIN 18055/EN 204.

General approval certificate by building authority

Conforms with building material class B2 according to DIN 4102, Part 1, as tested by MPA Hanover.

Other advantages:

- Fine cellular and even foam structure
- Low amount of residue left in can
- Resistant to aging

Areas of application:

High-quality and secure insulating and filling of hollow spaces such as pipe lead-throughs, joints, wall connections and masonry openings. Sealing and gluing of well rings and molded concrete parts. Visual proof of installation by ice blue colour of the foam.

Note:

Adheres to concrete, stone, hard PVC, metal and wood.
No adherence to polyethylene, silicones, PTFE and grease.

| Contents | Colour | Art. No. |
|----------|----------|----------|
| 553 g | Ice Blue | 892.143 |

| Technical Data | |
|---|-------------------------------------|
| Apparent density* | 18 kg/m ³ |
| Cellularity* | medium fine |
| Non-tacky after approx.* | 9 min. |
| Can be cut after approx.* | 15 min |
| Processing temperature for can | 5 °C to 25 °C (41 °F to 77 °F) |
| Processing temperature for surroundings and surface | -5 °C (23 °F) |
| Tensile strength according to DIN 53 430 | approx. 6.9 N/cm ² |
| Elongation at tear following DIN 53430 | 20.5 % |
| Shearing strength following DIN 53427 | approx. 3.2 N/cm ² |
| Compressive strain at 10% compression following DIN 53421 | approx. 1.9 N/cm ² |
| Water absorption according to DIN 53433 | approx. 0.3 Vol.-% |
| Thermal conductivity | 0.038 W/mK |
| Temperature stability | -40°C to +80°C (-40°F to +176°F) |
| Shelf life | 12 months |

PURLOGIC® FLEX



Recommended by experts and leading window manufacturers!

1-component premium foam for elastic joint insulation

Extremely high elasticity

- Highly flexible, and therefore clearly prevents danger of foam tear-off. (approx. 3X flexibility compared to commonly available PU foams)
- Prevents heat bridges

Suitable for use in winter

- Down to -15°C application-surface and ambient temperature
- Down to 0°C can temperature
- Still elastic even at temperatures below freezing

Tried-and-tested product features*

- Component test
- Joint sound insulation
- Thermal conductivity
- Air-permeability
- Water vapour permeability
- Tested energy savings
- General construction test certificate.
- Emicode-certified



Additional advantages:

- Fine-celled, uniform foam structure
- Resistant to aging (not UV-resistant)
- High-degree of residual emptying



Areas of use:

For insulating and filling window connections, pipe ducts, wall openings, wall connections, hollow spaces, cooling carts, walk-in refrigerators, roof finishing, roller shutter boxes and window sills.

Notes:

Adheres on concrete, stone, hard PVC, metal and wood. Does not adhere to polyethylene, silicone, PTFE and grease. PURLOGIC® FLEX can be applied with PURLOGIC® Xpress and PURLOGIC® COMBIpress. A primer should be applied in the case of porous and absorbent surfaces. Unhardened foam may not come into contact with wet adhesive!

| Colour | Content | Art. No. | P. Qty. |
|-------------|---------|----------|---------|
| Pebble Gray | 450 g | 892.1428 | 1 |

| Technical Data: | |
|--|------------------------------|
| Unfinished density | Approx. 24 kg/m ³ |
| Non-sticky surface* | Approx. 6 minutes |
| Cutttable* | Approx. 20 minutes |
| Application-surface and ambient temperature | -15°C to +25°C |
| Can temperature | Up to 0°C |
| Released-foam yield* | Up to 18 liters |
| Construction material class according to DIN 4102 Part 1 | B2 |
| Shelf life | 12 months |

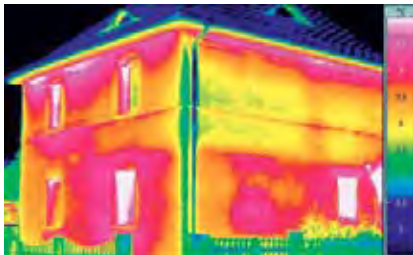
* Measured at 23°C and 50% humidity

Additional articles:

PURLOGIC® Xpress/COMBIpress
Art. No. 891.1524/891.1522

PURLOGIC® Clean
Art. No. 892.160

Würth Pump Spray Bottle
Art. No. 891.501



Due to building movements and longitudinal expansions in case of temperature fluctuations, increasing foam tear-off results with commonly available PU foam, especially with dark-colored windows.

- Danger of heat bridges resulting. The leaky building connection joint resulting from this can be made visible with thermography – see red areas.

With this information we want to advise you to the best of our knowledge based on our tests and experience. Preliminary testing required! For further information, see the Technical Data Sheet.

ADHESIVE NEOPRENE SPONGE WEATHER-STRIP



Features:

- Light weight closed cell sponge material
- Peel-back for easy application
- Permanent weatherproof seal
- No cement or tacking required
- Reduces wind noise

Applications:

- Surface must be clean and dry before application
- Automobiles and boats
- Any place where a weatherproof seal is required: trunks, sunroofs, firewalls

| Thickness | Width (inches) | Roll Size (feet) | Art. No. |
|-----------|----------------|------------------|----------|
| 5/16 | 5/8 | 10 | 894.4807 |
| 5/32 | | | 894.4802 |
| 5/32 | 3/8 | 50 | 894.4850 |
| | 1/2 | | 894.4851 |
| | 3/4 | | 894.4852 |
| 5/16 | 1/2 | 50 | 894.4855 |
| | 3/4 | | 894.4856 |
| | 1 | | 894.4857 |



WEATHERSTRIPPING ADHESIVE



Art. No. 893.100095 142 mL

An adhesive for rubber profiles on rough, pretreated, or painted metal surfaces

- Will not harm fresh paint
- Temperature resistant up to approximately 100 °C
- Must be applied to both surfaces to be bonded
- Let both surfaces skin before bonding to ensure proper adhesion
- Ideal for sunroof rubber and trim
- Ideal for door rubber, to body sealing applications
- Excess glue can be removed easily with W-SOL Residue Remover, Art. No. 890.113/890.1130
- Colour: Black

WEATHERSTRIPPING REPAIR COMPOUND



Art. No. 893.850385 150 mL

A single part compound designed to provide a quick, permanent method of repair to damaged weatherstripping

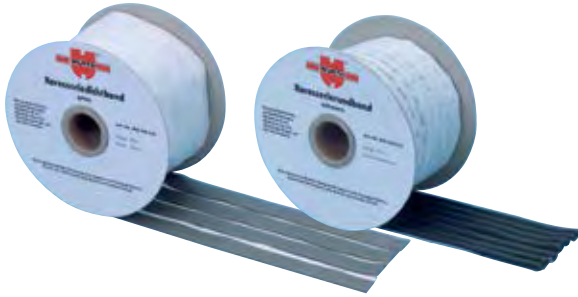
- Effective bonding of rubber to rubber or rubber to metal
- Excellent for attaching trim or weatherstrip section
- Can be applied to lacquered or acrylic and enamel surfaces
- Set-up time allows for repositioning after initial contact

Application:

Spread a thin coat of product over damaged or repaired areas and smooth out with appropriate tool. After the mastic has formed a skin, coat lightly with a silicone. This will provide long lasting weathering and keep the area pliable.

Note: If it is necessary to close door or other area containing repair immediately following the repair, place a piece of polyethylene over repaired area and remove after curing takes place.

CAR BODY SEALING TAPE / ROUND SEALING STRIP



Instructions for use:

- The surfaces to be sealed must be dry, stable and free from grease and dust.
- The application temperature must not be below +5 °C (+41 °F).
- Absorbent and porous surfaces must be sealed before use.
- The car body sealing tape or round sealing strip must be pressed down carefully against the surface. Press the sealing surfaces together firmly to achieve an effective seal.
- Also suitable for general sealing jobs to protect against dust, moisture and vibrations in electrical, machinery and construction applications as well as heating, ventilation and air conditioning, for example, between screw connected parts, in seams, joints, housings of all types and pipe lead-throughs.
- Butyl has a tendency towards "cold flow" (distortion or deformation of a material under continual load at temperatures within the working range). Therefore, butyl products should always be attached mechanically, i.e. with screwing components together or use of a contact profile.
- Applying excessive pressure to the profile will cause "squeezing out" of the sealing compound. Never compress butyl products to their zero point.

| Designation | Colour | Width | Thickness | Length | Art. No. | P. Qty. |
|------------------------------|--------|-------------------|-----------------|---------------------------------------|-------------------|---------|
| Car body sealing tape | Grey | 20 mm (25/32") | 2 mm (5/64") | 26 m (4 x 6.5m) 85.3' (4 x 21.3') | 890.100030 | 1/4 |
| Car body round sealing strip | Black | ø 8 mm ø 5/16" | | 17.5 m (7 x 2.5m) 57.4' (7 x 8.2') | 890.100033 | |

Permanently plastic, self-adhesive sealing tape or round strip for sealing of overlapping car body panels.

- Very good adhesive properties. The tape offers very good adhesion as well as permanent bonding on various different surfaces, e.g. metal, plastic, wood, stone, etc.
- Good UV, weather and water resistance. Also suitable for outdoor use, resistance to rain and other weather influences (not for use in submerged condition).
- Resistant to ageing and high temperatures. Provided the tape is used expertly, adhesion and sealing is assured over a number of years. Also suitable for high-temperature applications, for example, sealing of car bodies.
- Steam diffusion layer. The sealing tape or round strip enable watertight sealing and prevent the penetration of moisture into the car body.

Other features:

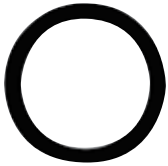
- Noise and vibration damping.
- Self-fusing.
- Free of solvents and silicone.
- Immediately ready for use.

Areas of application:

- Universal use for sealing of overlaps and screw connections in the automotive industry, container and motor home construction, for example: between fender and body; at brake and rear lights (particularly round sealing strip); at trim parts and sunroofs.

| Technical Data | |
|--|---|
| Material base | Butyl rubber |
| Fire protection class | B2 |
| Application temperature | +5 °C to +40 °C (41 °F to +104 °F) |
| Temperature stability | -30 °C to +100 °C (-22 °F to +212 °F) |
| Shelf life (at approx +20 °C and 50% humidity) | 24 months (store dry, lying flat and dust-free) |

O-RINGS



**Metric O-Rings
Prefix 468**

(See the blue pages for the full range)
Rubber: 75 Durometer



**Standard O-Rings
Prefix 469**

(See the blue pages for the full range)
Rubber: 75 Durometer



**Blue Neoprene A/C O-Ring
Prefix 469**

(See the blue pages for the full range)
For use with R134A refrigerant



**Green Neoprene A/C O-Ring
Prefix 469**

(See the blue pages for the full line)

O-RINGS



- Made of perbutan N (nitril-rubber)
PN 70 70 ± 5
- Temperature resistant from approx. -35 °C to +120 °C (-31 °F to +248 °F)
- Space saving, easily installed, reliable sealing elements
- For sealing moving and stationary machine components
- Resistant to all kinds of mineral oil, grease, hot water, steam, compressed air, weak acids, etc.

| Metric | | | |
|-------------------|-----------------------|-----------|---------|
| Inner dia. metric | Material thickness mm | Art. No. | P. Qty. |
| 3.0 | 2.0 | 468.00320 | 100 |
| 4.0 | | 468.00420 | |
| 5.0 | | 468.00520 | |
| 7.0 | | 468.00720 | |
| 8.0 | | 468.00820 | |
| 10.0 | 2.5 | 468.01020 | 50 |
| 12.0 | | 468.01220 | |
| 10.0 | | 468.01025 | |
| 12.0 | | 468.01225 | |
| 14.0 | | 468.01425 | |
| 15.0 | 468.01525 | | |
| 17.0 | 468.01725 | | |
| 19.0 | 468.01925 | | |
| 18.0 | 3.0 | 468.01830 | |
| 20.0 | | 468.02030 | |
| 22.0 | | 468.02230 | |
| 24.0 | | 468.02430 | |
| 42.0 | | 468.04230 | |

| Imperial | | | | | |
|------------|--------|-----------------------|--------------------|----------|---------|
| Inner dia. | | Material thickness mm | International Code | Art. No. | P. Qty. |
| mm | inches | inches | | | |
| 2.90 | 1/8 | 1.78 0.070 | AS-006 | 468.290 | 50 |
| 3.69 | 5/32 | | AS-007 | 468.369 | |
| 4.47 | 3/16 | | AS-008 | 468.447 | |
| 5.28 | 7/32 | | AS-009 | 468.528 | |
| 6.07 | 1/4 | | AS-010 | 468.607 | |
| 7.66 | 5/16 | AS-011 | 468.766 | | |
| 9.25 | 3/8 | AS-012 | 468.925 | | |
| 9.19 | 3/8 | AS-110 | 468.919 | | |
| 10.78 | 7/16 | AS-111 | 468.1078 | | |
| 12.37 | 1/2 | AS-112 | 468.1237 | | |
| 13.95 | 9/16 | 2.62 0.103 | AS-113 | 468.1395 | |
| 15.54 | 5/8 | | AS-114 | 468.1554 | |
| 17.13 | 11/16 | | AS-115 | 468.1713 | |
| 18.72 | 3/4 | | AS-116 | 468.1872 | |
| 20.22 | 13/16 | | AS-211 | 468.2022 | |
| 21.82 | 7/8 | AS-212 | 468.2182 | | |
| 23.40 | 15/16 | AS-213 | 468.2340 | | |
| 25.00 | 1 | AS-214 | 468.2500 | | |
| 26.57 | 1 1/16 | 3.53 0.139 | AS-215 | 468.2657 | |
| 28.17 | 1 1/8 | | AS-216 | 468.2817 | |
| 31.34 | 1 1/4 | | AS-218 | 468.3134 | |
| 34.52 | 1 3/8 | | AS-220 | 468.3452 | |
| 36.10 | 1 7/16 | | AS-221 | 468.3610 | |

RUBBER O-RINGS - METRIC – PREFIX 468

Temperature Resistance: -35 C - +120 C



BLACK STANDARD O-RINGS – PREFIX 469


Art. No. 469.327

ID: 1-3/4" | 44.45mm
 OD: 2-1/8" | 53.975mm
 Thickness: 13/64" | 5.159mm


Art. No. 469.222

ID: 1-1/2" | 38.1mm
 OD: 1-3/4" | 44.45mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.220

ID: 1-3/8" | 34.925mm
 OD: 1-5/8" | 41.275mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.219

ID: 1-5/16" | 33.338mm
 OD: 1-9/16" | 39.688mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.218

ID: 1-1/4" | 31.75mm
 OD: 1-1/2" | 38.1mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.217

ID: 1-3/16" | 30.163mm
 OD: 1-7/16" | 36.513mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.216

ID: 1-1/8" | 28.575mm
 OD: 1-3/8" | 34.925mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.215

ID: 1-1/16" | 26.988mm
 OD: 1-5/16" | 33.338mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.214

ID: 1" | 25.4mm
 OD: 1-1/4" | 31.75mm
 Thickness: 1/8" | 3.175mm

ID = Interior Diameter
 OD = Outer Diameter

BLACK STANDARD O-RINGS – PREFIX 469



Art. No. 469.213
 ID: 15/16" | 23.813mm
 OD: 1-3/16" | 30.163mm
 Thickness: 1/8" | 3.175mm



Art. No. 469.212
 ID: 7/8" | 22.225mm
 OD: 1-1/8" | 28.575mm
 Thickness: 1/8" | 3.175mm



Art. No. 469.211
 ID: 13/16" | 20.638mm
 OD: 1-1/16" | 26.988mm
 Thickness: 1/8" | 3.175mm



Art. No. 469.210
 ID: 3/4" | 19.05mm
 OD: 1" | 25.4mm
 Thickness: 1/8" | 3.175mm



Art. No. 469.116
 ID: 3/4" | 19.05mm
 OD: 15/16" | 23.813mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.115
 ID: 11/16" | 17.463mm
 OD: 7/8" | 22.225mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.114
 ID: 5/8" | 15.875mm
 OD: 13/16" | 20.638mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.113
 ID: 9/16" | 14.288mm
 OD: 3/4" | 19.05mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.112
 ID: 1/2" | 12.7mm
 OD: 11/16" | 17.463mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.111
 ID: 7/16" | 11.113mm
 OD: 5/8" | 15.875mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.110
 ID: 3/8" | 9.525mm
 OD: 9/16" | 14.288mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.012
 ID: 3/8" | 9.525mm
 OD: 1/2" | 12.7mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.011
 ID: 5/16" | 7.938mm
 OD: 7/16" | 11.113mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.010
 ID: 1/4" | 6.35mm
 OD: 3/8" | 9.525mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.009
 ID: 7/32" | 5.556mm
 OD: 11/32" | 8.731mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.008
 ID: 3/16" | 4.763mm
 OD: 5/16" | 7.938mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.007
 ID: 5/32" | 3.969mm
 OD: 9/32" | 7.144mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.006
 ID: 1/8" | 3.175mm
 OD: 1/4" | 6.35mm
 Thickness: 1/16" | 1.588mm

ID = Interior Diameter
 OD = Outer Diameter

GREEN AIR CONDITIONING O-RINGS – PREFIX 469



Art. No. 469.09211
ID: 0.796" | 20.22mm
OD: 1.072" | 27.24mm
Thickness: 0.139" | 3.53mm



Art. No. 469.09118
ID: 0.862" | 21.90mm
OD: 1.059" | 26.89mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09018
ID: 0.739" | 18.77mm
OD: 0.857" | 21.76mm
Thickness: 0.07" | 1.78mm



Art. No. 469.09175
ID: 0.797" | 20.24mm
OD: 0.974" | 24.75mm
Thickness: 0.098" | 2.5mm



Art. No. 469.09016
ID: 0.614" | 15.60mm
OD: 0.739" | 18.78mm
Thickness: 0.07" | 1.78mm



Art. No. 469.09015
ID: 0.551" | 14mm
OD: 0.691" | 17.56mm
Thickness: 0.067" | 1.7mm



Art. No. 469.0901555
ID: 0.51" | 12.95mm
OD: 0.655" | 16.63mm
Thickness: 0.071" | 1.8mm



Art. No. 469.902110
ID: 0.551" | 14mm
OD: 0.724" | 18.38mm
Thickness: 0.09" | 2.29mm



Art. No. 469.09014
ID: 0.489" | 12.42mm
OD: 0.629" | 15.98mm
Thickness: 0.07" | 1.79mm



Art. No. 469.92121
ID: 0.394" | 10mm
OD: 0.591" | 15mm
Thickness: 0.098" | 2.5mm



Art. No. 469.09013
ID: 0.426" | 10.82mm
OD: 0.566" | 14.38mm
Thickness: 0.066" | 1.68mm



Art. No. 469.09012
ID: 0.364" | 9.25mm
OD: 0.504" | 12.8mm
Thickness: 0.067" | 1.7mm



Art. No. 469.09011
ID: 0.301" | 7.65mm
OD: 0.316" | 8.03mm
Thickness: 0.071" | 1.8mm



Art. No. 469.09108
ID: 0.236" | 6mm
OD: 0.433" | 11mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09903
ID: 0.301" | 7.65mm
OD: 0.42" | 10.67mm
Thickness: 0.064" | 1.63mm



Art. No. 469.091155
ID: 0.291" | 7.38mm
OD: 0.435" | 11.04mm
Thickness: 0.071" | 1.8mm



Art. No. 469.92103
ID: 0.26" | 6.6mm
OD: 0.417" | 10.6mm
Thickness: 0.07" | 1.78mm



Art. No. 469.09022
ID: 0.276" | 7mm
OD: 0.394" | 10mm
Thickness: 0.058" | 1.47mm



Art. No. 469.09901
ID: 0.185" | 4.7mm
OD: 0.291" | 7.4mm
Thickness: 0.056" | 1.42mm



Art. No. 469.09008
ID: 0.176" | 4.47mm
OD: 0.441" | 11.21mm
Thickness: 0.071" | 1.8mm

GREEN AIR CONDITIONING O-RINGS – PREFIX 469



Art. No. 469.09010
ID: 0.239" | 6.07mm
OD: 0.379" | 9.63mm
Thickness: 0.07" | 1.78mm



Art. No. 469.09568905
ID: 0.414" | 10.52mm
OD: 0.546" | 13.88mm
Thickness: 0.072" | 1.83mm



Art. No. 469.09568110
ID: 0.362" | 9.19mm
OD: 0.56" | 14.22mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09111
ID: 0.424" | 10.77mm
OD: 0.623" | 15.83mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09568906
ID: 0.473" | 12.01mm
OD: 0.614" | 15.60mm
Thickness: 0.074" | 1.88mm



Art. No. 469.09568113
ID: 0.549" | 13.95mm
OD: 0.74" | 18.8mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09568114
ID: 0.612" | 15.54mm
OD: 0.787" | 20mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09017
ID: 0.676" | 17.17mm
OD: 0.816" | 20.73mm
Thickness: 0.066" | 1.68mm

BLUE AIR CONDITIONING O-RINGS – PREFIX 469



Art. No. 469.18543
ID: 11/16" | 17.463mm
OD: 13/16" | 20.638mm
Thickness: 1/16" | 1.588mm



Art. No. 469.18540
ID: 9/16" | 14.288mm
OD: 11/16" | 17.463mm
Thickness: 1/16" | 1.588mm



Art. No. 469.18539
ID: 1/2" | 12.7mm
OD: 11/16" | 17.463mm
Thickness: 3/32" | 2.381mm



Art. No. 469.18537
ID: 7/16" | 11.113mm
OD: 9/16" | 14.288mm
Thickness: 1/16" | 1.588mm



Art. No. 469.18536
ID: 3/8" | 9.525mm
OD: 9/16" | 14.288mm
Thickness: 3/32" | 2.381mm










Art. No. 469.18534
ID: 5/16" | 7.938mm
OD: 7/16" | 11.113mm
Thickness: 1/16" | 1.588mm



Art. No. 469.18533
ID: 1/4" | 6.35mm
OD: 7/16" | 11.113mm
Thickness: 3/32" | 2.381mm

ALUMINUM O-RINGS FOR A/C SYSTEMS

Helps prevent leaking from the hose manifold at the joint where it attaches to the compressor

| Image | Size | OEM # | Application | Art. No. | P. Qty. |
|---|-------|--|---|------------------|---------|
|  | 5/8" | GM: 52757910 | GM Compressor Manifold Sealing Washer - Thick | 469.09638 | 10 |
|  | 5/8" | GM: 52455752 | GM Compressor Manifold Sealing Washer - Thin | 469.09639 | 10 |
|  | 3/4" | GM: 52455756 | GM Compressor Manifold Sealing Washer - Thin | 469.09640 | 10 |
|  | 8 mm | GM: 15-31054 / 5247087 | GM Block Fitting Sealing Washer - Slim Line | 469.09887 | 10 |
|  | 11 mm | GM: 15-31055 / 52474373 Chrysler: 5012980AA | Block Fitting Sealing Washer - Slim Line | 469.09888 | 10 |
|  | 15 mm | GM: 15-30817 / 2724952 Chrysler: 5012979AA | Block Fitting Sealing Washer - Slim Line | 469.09889 | 10 |
|  | 17 mm | GM: 27249661 / 52474375 AC Delco: 15-31056 / 15-31101 | Block Fitting Sealing Washer - Slim Line | 469.09890 | 10 |

O-RING ASSORTMENTS



Art. No. 964.468

**Metric Rubber
O-Ring Assortment**

Contents (440 Pieces):
From dia 5.28 - 36.1 mm



Art. No. 964.4681

**Metric Rubber
O-Ring Assortment**

Contents (1050 Pieces):
From dia 3.0 - 24.0 mm



Art. No. 964.4685

**Metric Rubber
O-Ring Assortment**

Contents (1050 Pieces):
18 Assorted sizes, Size range
2.9 mm-23.40 mm



Art. No. 964.4686

**Metric Rubber
O-Ring Assortment**

Contents (330 Pieces):
12 Assorted sizes, Size range
25 mm - 43.8 mm

A/C ASSORTMENTS



Art. No. 965.469

**Air Conditioning
O-Ring Assortment**

Contents (105 Pieces):
Size range 1/4"-5/8"



Art. No. 469.7771

**Air Conditioning
O-Ring Assortment**

Contents (207 Pieces):
Highly saturated nitrile rubber
o-rings

MAKE YOUR OWN O-RING ASSORTMENT



Art. No. 964.4683

- Case fits into ORSY 100 shelf
- Allows you to make required O-Rings of any size at any time by yourself
- No delay of repair work
- This assortment allows you to make O-Rings of 5 different diameters and any size

Application Areas:

Shipyards, machine making, automotive repair workshops, agricultural and motorcycle repair, bus fleet operators, etc.

| Assortment Contents: | |
|-----------------------------|-----------------|
| Description | Art. No. |
| 1 Superschnell Glue (20 g) | 893.09 |
| 1 Knife | 715.6606 |
| 1 Cutting Jig | 468.100* |
| 1 m O-Ring band, ø 1.6 mm | 468.1116 |
| 1 m O-Ring band, ø 2.4 mm | 468.1124 |
| 1 m O-Ring band, ø 3.0 mm | 468.1130 |
| 1 m O-Ring band, ø 5.7 mm | 468.1157 |
| 1 m O-Ring band, ø 8.4 mm | 468.1184 |

*available through Special Orders

O-RING HOOK REMOVAL ASSORTMENT

Art. No. 715.55330 - P. Qty. 4 pcs



Pick & Hook set for removal of O-rings and Seals

Features:

- For the removal and replacement of seals and O-rings,
- Perfect for hard to reach places
- Chrome-vanadium steel with a Chrome-plated surface
- 4 hook pieces - Straight pick, 90 degree, full hook and offset hook pick
- Comfortable 2K handle design

| Description | Length | Art. No. |
|---------------------------|--------|-------------------|
| Universal Hook - Straight | 240mm | 071555 331 |
| Universal Hook - 90° | | 071555 332 |
| Universal Hook - Bent | | 071555 333 |
| Universal Hook - Cranked | | 071555 334 |

Note: Articles in red are special orders only

A/C O-RING CONDITIONER

Art. No. 892.764301 113 g



Conditions and renews O-Rings

- Contains O-Ring conditioners, Ester Oil, R134A and U/V dye
 - Specifically designed to condition all types of O-Rings and rubber components including hoses and seals, while helping to prevent leaks
 - Polymer free
 - Will not harm A/C System components, reclamation or recovery machines or clog orifice tubes
 - 1 can treats one vehicle
 - Installs easily using charging hose,
- Art. No. 764.305000

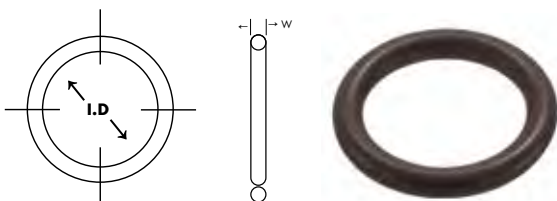
SILICONE O-RING LUBRICANT

Art. No. 893.764311 118 mL



- Extends O-ring life
- Resists wash-away and moisture
- Withstands high temperatures
- 10000 cSt viscosity lubricant
- Easy to apply light weight oil comes in convenient 4 oz. squeeze tip bottle

STRAIGHT THREAD O-RINGS FOR BOSS SEALS

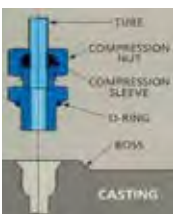


- Durometer hardness 90 ± 5
- Temperature Range - 30°C to +125°C for petroleum based fluids.
- Material: Nitrile (Buna-N-90)
- Standard o-ring complies with S.A.E. specification S.A.E. J515 Type CH

| Port Size | Width | Inner Diameter | Art. No. | P. Qty | Qty. in Kit |
|-----------|-------|----------------|------------------|--------|-------------|
| 1/16 | .058 | .185 | 468.99116 | 1 | 0 |
| 1/8 | .064 | .239 | 468.99118 | 10 | 10 |
| 3/16 | .064 | .301 | 468.99316 | 10 | 10 |
| 1/4 | .072 | .351 | 468.99114 | 10 | 10 |
| 5/16 | .072 | .414 | 468.99516 | 10 | 10 |
| 3/8 | .078 | .468 | 468.99318 | 10 | 10 |
| 7/16 | .082 | .530 | 468.99716 | 1 | 3 |
| 1/2 | .087 | .644 | 468.99112 | 5 | 5 |
| 5/8 | .097 | .755 | 468.99518 | 10 | 10 |
| 3/4 | .116 | .924 | 468.99314 | 10 | 10 |
| 7/8 | .116 | 1.048 | 468.99718 | 1 | 3 |
| 1 | .116 | 1.171 | 468.99100 | 10 | 10 |
| 1-1/4 | .118 | 1.475 | 468.99114 | 10 | 0 |
| 1-1/2 | .118 | 1.720 | 468.99112 | 10 | 0 |
| 2 | .118 | 2.337 | 468.99200 | 5 | 0 |

Available as a Kit: Art No. 965.46805 in a 16cmpt drawer (955.916)

Boss Seals:



The standard sizes for o-rings include 20 sizes used to seal straight-thread tube fittings on a boss. A boss is cylindrical projection on a casting or forging. The end of that projection is machined to provide a flat, smooth surface for dealing. Straight threads used with an O-ring provide a better seal than tapered threads used alone.

The 900 series of dash numbers identifies the 20 sizes of boss seals. Except for the size -901, the digits after the 9 identify the nominal tube size -901 in 16ths of an inch. The tube size is its outside diameter (OD). For example, size -903 is intended for use with 3/16-inch tube. The one exception, size -901, is intended for use with 3/32-inch. 1/16-inch tube is not common in aircraft use.

RETAINING COMPOUND



For high-strength assembly of bushings, sleeves, geared wheels, bolts, shaft and hub connections and bearings exposed to high loads

Dependable curing at low temperatures around 0 °C
A dependable aid in winter

Can be applied to slightly oily surfaces
No need for time-consuming degreasing of bearings

Max. gap filling of 0.15 mm
Even large deviations can be corrected economically

Prevents frictional corrosion
Prevents seizing of bearings providing easy disassembly

| Contents | Art. No. |
|----------|-------------------|
| 23 mL | 893.603025 |
| 46 mL | 893.603050 |

| Physical Properties (Liquid State) | |
|---|---|
| Chemical description | Dimethylacrylate |
| Colour | Green |
| Viscosity (spindle 4/20 rpm) 25 °C Brookfield (RVT) | 100-150 mPas (spindle rpm: 1/2 Density) |
| Density | 1.07 g/cm ³ |
| Max. thread diameter | M12 |
| Max. gap filling capacity | 0.15 mm |
| Flash point | > 90 °C (> 194 °F) |
| Shelf life | 1 year at room temperature |

| Physical Properties (Cured State) | |
|--|---------------------------------------|
| Hand-tight after | 5-10 minutes |
| Usable after | 30-40 minutes |
| Final strength after | 3-6 hours |
| Initial breakaway torque | N/A |
| Continuing torque | N/A |
| Pressure shearing strength (DIN 54452) | 8-26 N/mm ² |
| Operating temperature range | -55 °C to +150 °C (-67 °F to +302 °F) |

PIPE SEALANT



Seals conical/cylindrical threaded pipe connections up to R3", e.g. sprinkler systems, gas and liquid tight.

Seals immediately under low pressure loads

- Pipes can be pressurized immediately
- up to approx. 5 bar, after final curing
- up to 300 bar

Also cures at temperatures below 0 °C
Can be used in cold weather

High resistance to chemicals

- Will not react with most industrial
- Liquids and gases

| Description | Contents | Art. No. |
|--------------|----------|-------------------|
| Pipe Sealant | 47 mL | 893.577050 |

| Physical Properties (Liquid State) | |
|------------------------------------|---|
| Chemical description | Dimethylacrylate |
| Colour | Fluorescent yellow |
| Viscosity 25 °C Brookfield (RVT) | 60,000-80,000 mPas (spindle rpm: 6/2.5) 20,000-30,000 mPas (spindle rpm: 6/20) |
| Density | 1.05 g/cm ³ |
| Max. thread diameter | R 3" (M 80) |
| Max. gap filling capacity | 0.50 mm |
| Flash point | > 100 °C (212 °F) |
| Shelf life | 1 year at room temperature |

| Physical Properties (Cured State) | |
|-----------------------------------|--|
| Hand-tight after | 15-30 minutes |
| Usable after | 1-3 hours |
| Final strength after | 3-6 hours |
| Initial breakaway torque | 15-20 Nm (M10) |
| Continuing torque | 10-15 Nm (M10) |
| Pressure shearing strength | 6-13 N/mm ² |
| Operating temperature range | -55 °C to +150 °C (-67 °F to +302 °F) |

PIPE SEALANT WITH PTFE



Seals all metal pipe connections and fittings with conical/cylindrical threads, according to DIN 2999 against most industrial liquids and gases. Replaces PTFE tape or hemp. Certified by DVGW* according to DIN 30661. Cured sealing compounds for threaded pipe connections in fittings and gas appliances. This product may not be used for domestic gas or water installations, according to DIN 30660.

Can be subjected to loads up to 200 bar (2900 psi)

Suitable for high pressure systems. Can be subjected to loads up to the bursting pressure of the pipes after full curing and with correctly tightened connections.

Completely compensates for thread play as well as surface roughness

Forms an excellent reliable connection

Neutral and insulating behaviour with metals

Prevents corrosion of the threads

Easy application

Secure and quick assembly

Solvent-free

Significantly reduced health hazards

Highly viscous

Sealant will not run off the thread

Easy disassembly

- No special tools required

* DVGW - German Technical and Scientific Association for Gas and Water

| Physical Properties (Liquid State) | |
|------------------------------------|---|
| Chemical description | Dimethylacrylate |
| Colour | White |
| Viscosity 25 °C Brookfield (RVT) | 300,000-500,000 mPas (spindle rpm: 7/2) |
| Density | 1.1 g/cm ³ |
| Max. thread diameter | R 3" (M 80) |
| Max. gap filling capacity | 0.50 mm |
| Flash point | > 100 °C |
| Shelf life | 1 year at room temperature |

| Physical Properties (Cured State) | |
|--|---------------------------------------|
| Hand-tight after | 10-20 minutes |
| Usable after | 1-3 minutes |
| Final strength after | 24 hours |
| Initial breakaway torque | 4-6 Nm (M10) |
| Continuing torque | 1-3 Nm (M10) |
| Pressure shearing strength (DIN 54452) | 2-6 N/mm ² (DIN 54452) |
| Operating temperature range | -55 °C to +150 °C [-67 °F to +302 °F] |

| Resistance to Chemicals- DIN 53287 test similar to DIN 53 | |
|---|-------|
| Rel. strength in % | 500 h |
| Water/ glycol at 87 °C | 100 |
| Engine oil MIL-L16 152 at 125 °C | 100 |
| Gasoline, leaded, at 22 °C | 60 |
| Gasoline, unleaded, at 22 °C | 60 |
| Trichloroethane at 22 °C | 50 |

| Contents | Art. No. |
|----------|------------|
| 50 mL | 893.511050 |
| 250 mL | 893.511250 |

HYDRAULIC SEALANT



For sealing screw connections in pneumatic and hydraulic systems under high loads up to the bursting pressure of the pipe or hose

Can be applied to slightly oily surfaces

No need for time-consuming degreasing

Excellent resistance to all hydraulic fluids and fuels

High degree of safety, since impairments due to dissolving are prevented

Quick curing, even at low temperatures: hand-tight after 40 minutes, usable after 2 to 3 hours.

Minimized down times of your vehicles

| Contents | Art. No. |
|----------|------------|
| 41 mL | 893.545050 |

| Physical Properties (Liquid State) | |
|------------------------------------|---------------------------------------|
| Chemical description | Dimethylacrylate |
| Colour | Violet |
| Viscosity 25 °C Brookfield RVT | 1,500-2,000 mPas (spindle rom: 5/2.5) |
| Density | 1.20 g/cm ³ |
| Max. thread diameter | R 3/4" |
| Max. gap filling capacity | 0.15 mm |
| Flash point | > 100 °C |
| Shelf life | 1 year at room temperature |

| Physical Properties (Cured State) | |
|-----------------------------------|---------------------------------------|
| Hand-tight after | 30-40 minutes |
| Usable after | 2-3 hours |
| Final strength after | 12-24 hours |
| Initial breakaway torque | 2-3 Nm (M10) |
| Continuing torque | 1-2 Nm (M10) |
| Pressure shearing strength | 1-3 N/mm ² |
| Operating temperature range | -55 °C to +150 °C (-67 °F to +302 °F) |

FLANGE SEALANT NON DRIPPING



For sealing of flanges and surfaces with a large gap. Non-drip product.

Non-drip, viscous product

No dripping or running of the material, thus ideal for working an overhead and vertical surfaces. The material stays where it is needed!

Slight flexibility up to 120 °C (248 °F)

Compensates for heat expansion differences of up to 30% between materials

Seals immediately under low pressure loads

Test pressure can be applied immediately. No waiting time required.

Also suitable for passive metals

Aluminum flanges can also be sealed. Only one product required for several materials.

Quick curing: usable after 30 minutes

Short down times for your vehicles

| Contents | Art. No. |
|----------|------------|
| 44 mL | 893.518050 |

| Physical Properties (Liquid State) | |
|---|---|
| Chemical description | Dimethylacrylate |
| Colour | Red |
| Viscosity 25 °C Brookfield (RVT/RVT/HB) | 80,000-1,000,000 mPas (TP spindle rpm: 0.5) 200,000-300,000 mPas (TP spindle rp: 5.0) |
| Density | 1.1 g/cm ³ |
| Flash point | > 100 °C |
| Shelf life | 1 year at room temperature |

| Physical Properties (Cured State) | |
|--|---------------------------------------|
| Usable after | 1-3 hours |
| Final strength after | 24-72 hours |
| Initial breakaway torque | 6-9 Nm (M10) |
| Continuing torque | 5-7 Nm (M10) |
| Pressure shearing strength (DIN 54452) | 7-10 N/mm ² |
| Tensile strength | 4-12 N/mm ² (DIN 53288) |
| Impact shearing strength | - |
| Operating temperature range | -55 °C to +150 °C (-67 °F to +302 °F) |

SUPER RTV SILICONE



High-grade adhesive and sealing compound for use with motor vehicles.

Very good resistance to chemicals.

Suitable for use in critical areas, in which the seal may temporarily be in contact with several fluids. The product shows an excellent resistance against motor and gear oils, refrigerants, and anti-freeze.

Acid-free hardening system.

Non-corrosive, therefore no negative effects on electronic components or Lambda sensors.

High temperature stability.

- Utilization in the temperature range on machinery and engines possible.
- Sealant in a compressed air spray can.

Easy dosage without auxiliary devices.

Optimum handling, which means that an even product application using fine beads is possible.



Application:

Optimal adhesion is achieved on clean and dry surfaces. Old sealing materials must be removed completely from the sealing surface.

| Technical Data | |
|---|---|
| Chemical basis | Modified oxime silicone |
| State | Thixotrope paste |
| Skin forming time (ASTM-D-4678) | 5 minutes |
| Time to dry surface | Within 3 – 4 minutes |
| Full hardening speed approx. | 2 mm/24 h (23°C/50% r.h.) |
| Shore hardness A (ASTM-D-676) | 40 |
| Tensile strength (ASTM-D-412) | Approx. 2.2 N/mm ² |
| Elongation at rupture (ASTM-D-412) | 270 – 300% |
| Thermal conductivity (ASTM D-2214/70) | 0.002 Jcm ⁻¹ s ⁻¹ K ⁻¹ |
| Coefficient of thermal expansion (ASTM EB-31) | 20 x10 ⁻⁵ K ⁻¹ |
| Dielectric strength (ASTM D-149) | 16 kV/mm |
| Relative permittivity @ 1MHz (ASTM D-150) | 2.8 |
| Dielectric loss factor @ 1MHz (ASTM D-150) | 0.002 |
| Electrical volume resistance (ASTM D-257) | 1x 10 ¹⁵ /cm |

| Colour | Contents | Temperature Range | Application Area | According to Specifications | Art. No. |
|-------------|----------------------|--|---|---|-----------------|
| Black | 232 g, Pack Qty. 1/6 | -60°C to +260°C (briefly up to +315°C) | Water pumps, oil pumps, front covers, cam shaft bearing covers, thermostat bodies, oil pans, transmission cases, power axle covers, sun roof, doors | GM 1052751, 1052917 Ford D6AZ-19562-B Chrysler 4318025 Fiat 9.55720/B | 893.3311 |
| Red | 256 g, Pack Qty. 1/6 | -60°C to +315°C (briefly up to +370°C) | Engine covers and flanges | | 893.3312 |
| Blue | 256 g, Pack Qty. 1/6 | -60°C to +260°C (briefly up to +315°C) | Valve covers, differential gear housings, rear axle bodies, oil pan, crankshaft housing, intake air distributor | | 893.3313 |
| Transparent | 256 g, Pack Qty. 1/6 | -60°C to 260°C (briefly up to +315°C) | Lamp bodies, sealing and encasing of electrical connections, sealing of coach work parts | | 893.3314 |
| Grey | 232 g, Pack Qty. 1/6 | -60°C to 260°C (briefly up to +315°C) | Water pumps, oil pumps, front covers, cam shaft bearing covers, thermostat bodies, oil pans, transmission cases, power axle covers | Toyota 00295-00102, 00295-01281, 00295-01208 Mitsubishi MD997740, MD997110 Nissan 999MPA-7007 Honda 08718-5500040E, HC2963817, 0095Z-POA Hyundai 4C116-21000, 21451-33A01 | 893.3316 |

RTV-SILICONE GASKET



This low volatile, one component neutral-cure silicone rubber is virtually unaffected by temperature and weather extremes, chemicals and aging

- This material seals or replaces a wide range of cork, paper, asbestos, felt and metal gaskets
- 100 % Silicone Rubber
- Non-Corrosive
- Permanently Flexible
- Fast Cure

| O2 Sensor Safe | | |
|---|----------|------------------|
| Colour | Quantity | Art. No. |
| Blue | 300 mL | 890.00004 |
| Black | 226 g | 890.913 |
| Clear | 226 g | 890.914 |
| Temperature range -62 to 210°C (-80 to 410°F) | | |

Applications:

Oil Pans, Water Pumps, Valve/Axle Covers, Crank Cases, Thermostat Housing, Transmission Pans

Recommended:

Replacement Nozzle **Art. No. 890.9131**

Caution:

Do not use on head gaskets or carburetor base gaskets.

| Red High Temperature | | |
|--|----------|--|
| Colour | Contents | Art. No. |
| Red | 300 mL | 890.0005 |
| Red | 226 g | 890.9102 Working time: 5-10 minutes Tack-free time: 10-20 minutes Full cure time: 72 hours |
| Temperature range -62 to 260°C (-80 to 500°F), intermittently to 315°C/600°F | | |

GENERAL PURPOSE SILICONE



Room temperature vulcanizing (RTV) adhesive agent

- Temperature resistance -46 °C to +232°C (-50 °F to +450°F)
- Ozone and weather resistant
- Resistant to moisture and vibration
- NSF/ANSI51 listed

Applications:

For sealing various materials

Recommended:

Replacement Nozzle **Art. No. 892.3700**

Compatible with:

360 Rotating Nozzle **Art. No. 891.6533**



| Colour | Contents | Art. No. |
|--------|----------|------------------|
| Almond | 300 mL | 892.56020 |
| White | | 892.56022 |
| Black | | 892.56023 |
| Clear | | 892.56024 |
| Grey | | 892.56025 |

360° ROTATING NOZZLE + EXTENSION



Benefits:

- Dynamic and flexible nozzle which will ease the finishing of unreachable joints remarkably.
- 360 degree rotation.
- Easy to use in hard-to-reach surfaces.
- Fits a number of articles.
- The nozzle can be extended with multiple extensions to reach the desired length.

360° Rotating Nozzle Features:

- Length: 11cm
- Color: Transparent

Nozzle Extension Features:

- Length: 11cm
- Color: Transparent
- Several extensions can be combined

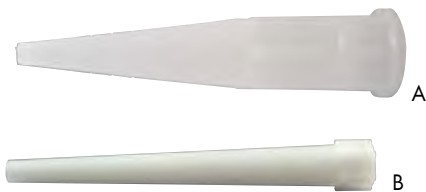
Nozzle Compatibility Chart

| Item Description | Art. No. |
|--|-------------------|
| RTV High Temp Red Silicone 300 mL | 890.0005 |
| Glue And Seal White 310 mL | 890.1001 |
| Glue And Seal Grey 310 mL | 890.1002 |
| Glue And Seal Black 310 mL | 890.1003 |
| General Purpose Silicone Almond 300 mL | 892.56020 |
| General Purpose Silicone White 300 mL | 892.56022 |
| General Purpose Silicone Black 300 mL | 892.56023 |
| General Purpose Silicone Clear 300 mL | 892.56024 |
| General Purpose Silicone Grey 300 mL | 892.56025 |
| Sprayable Seam Seal Black 290 mL | 893.910400 |
| Sprayable Seam Seal White 290 mL | 893.910401 |
| Sprayable Seam Seal Grey 290 mL | 893.910402 |
| Sprayable Seam Seal Beige 290 mL | 893.910403 |

| Item Description | Art. No. | P. Qty |
|--|------------------|--------|
| A 360° Rotating Nozzle | 891.6533 | 10 |
| B Extension for application Nozzle 360° | 891.65331 | |



REPLACEMENT NOZZLES



| Nozzle | For use with Art. No.'s | Art. No. |
|--------|---|-----------------|
| A | 892.56020, 892.56022, 892.56023, 892.56024, 892.56025 | 892.3700 |
| B | 890.00004, 890.913, 890.914, 890.00005, 890.9102 | 890.9131 |

RTV SILICONE - SCHOOL BUS YELLOW



Art. No. 892.5717 300 mL

School Bus Yellow Silicone is a flexible, durable, RTV adhesive with a wide variety of sealing and bonding use. It will adhere to metal, wood, glass, porcelain, plastic, painted surfaces, ceramic and rubber.

Suitable For:

Sealing leaks and drafts in windshields, body side window, rear windows and doors. Seals flashing and warning light signals. Use as a body seam sealer, seal internal and external body patches, seal wiring harnesses. Insulates electrical components.

Note: Do not use for head gaskets. Product is not paintable. Not suitable for use below waterline marine applications.

QUICK SEAL



Art. No. 890.95900 283 g

- Non-corrosive oxime cure
- Product is tack-free in 5 minutes and cures in 2-6 hours, depending on thickness and atmospheric conditions
- Gets vehicles back in operation immediately with less down time
- Rapid onset of adhesion
- Fast R.T. cure
- Allows handling of the assembly within an hour
- Thixotropic paste
- 1-part silicone
- Excellent unprimed adhesion to many plastics, metal and glass
- High temperature resistance
- Temperature range: -40 °C to +315 °C (-40 °F to +600 °F) (intermittently to +343 °C/ 650 °F)
- Meets and/or exceeds GM (998-5675; 998-5990), Ford (WSE-M4 6323-A6) & Chrysler (GF-44A) specifications
- Meets and/or exceeds volatility requirements for oxygen sensor equipped engines
- High resistance to oils, gasoline fluids and coolant solutions

Applications:

Form in place gaskets, Adhesive sealant, Industrial bonding, Adheres to glass, plastic and most metals

BOND AND SEAL



Elastic polyurethane adhesive and sealant with a wide range of material applications such as metal, painted surfaces, wood, stone, concrete and plastic (polyester and hard PVC).

Features:

- Universal use
- High-elasticity
- Long skin formation time
- Can be mechanically machined and painted over (following skin formation) without surface activation
- Can adhere same and different materials
- Silicone free
- Nearly odourless
- Non-corrosive

Benefits:

- Outstanding adhesive strength on a wide range of materials and surfaces
- Dampens vibrations and noise
- Compensates expansion of different materials
- Enables bonding and/or sealing of complicated and very large components
- Joint parts can be repositioned
- Does not present any health hazard when cured

Note: Do not bring into contact with alkyd-resin paint systems. Not suitable for glass groove sealing in areas in which UV back reflection can occur. Direct exposure to sunlight can lead to slight surface yellowing. Not suitable for PE, PP, PTFE, silicone rubber, expanded polystyrene and softened plastics. Preliminary testing should be done to determine compatibility with paint.

| Colour | Contents | Art. No. |
|--------|----------|-----------------|
| White | 310 mL | 890.1001 |
| Grey | | 890.1002 |
| Black | | 890.1003 |

Technical Data

| | |
|---|---|
| Chemical basis | 1- component polyurethane |
| Density (DIN 53479) (before hardening) | approx. 1.25 kg/l |
| Application temperature | +5°C to +35°C (=41°F to +95°F) |
| Skin formation time* | 45-60 min. |
| Hardening speed* | Dry in 1-2 hours; fully cured in 2.5-24 hrs |
| Volume change (DIN 52451) | approx. -5% |
| Shore A hardness (DIN 53505) | approx. 40 |
| Tensile strength (DIN 53504) | 1.5 N/mm ² |
| Elongation at tear (DIN 53504) | approx. 500% |
| Resistance to further tearing (DIN 53515) | approx. 6 N/mm |
| Elongation, compression during use | 10% |
| Volume resistivity (DIN 53482) | approx. 10 ¹⁰ W cm |
| Glass transition temperature (DIN 53445) | approx. -45°C (-49°F) |
| Temperature resistance | -40°C to +90°C (-40°F to +194°F) 8 hr at ±120°C (248°F) |
| Resistant to | Water, seawater and limy water, public waste water, weak acidic and alkaline solutions. |
| Briefly resistant to | Fuels, mineral oils, vegetable and animal fats and oils |
| Shelf life | 12 months at +10°C to +25°C (+50°F to +77°F) |

Additional tools:

Beading Nozzle **Art. No. 891.653**

360° Rotating Nozzle **Art. No. 891.6533**

Areas of application:

Door skin adhesive, body moulding kits, bolted fender joints and fenders, front and rear spoilers, welded joints. Seam sealing/joints, (e.g. overlapping chassis seams, container seals, step-by-step welding seams, housing seals, expansion joints, gap seals). Visible joints, (e.g. connection joints). Area adhesion, (e.g. bumper plates, bed plates, corrugated sheet metal and steps of carrier plates, corner and edge protection plates). Seam adhesion/point adhesion, (e.g. sheet metal overlaps, angle profiles, lorry side panels, mounts, frame adhesions, sign and board mounting). Adhesion of automotive accessories, (e.g. spoilers). External tractor/trailer, (e.g. sealing overlapping seams, FRP adhesion, e.g. windscreens and roof sheeting). Internal tractor/trailer, (e.g. sealing of floor group--usually metal/wood, agricultural machines. Visual joints in folds, welded and overlapping seams). Interior bus (e.g. joint sealing of floor group).

THREADLOCKER-HIGH STRENGTH (RED)



Screw retaining and sealing compound - hardly removable.
For securing, attaching and sealing of screws, studs, bolts, nuts, threaded inserts and plugs, which are not required to be removed under normal circumstances.

Particularly well-suited for heavy duty screw connections

- No additional securing devices required

Removable only after heating to 300 °C!

- Under normal conditions only removable with special tools and/or heating

Outstanding resistance to chemicals and heat

- Universal product with a wide range of applications

Prevents loosening caused by, for instance, vibrations or impact

- No safety problems, unlike, for instance, with mechanical screw retainers
- NSF Certified

| Contents | Art. No. |
|----------|-------------------|
| 9 mL | 893.271010 |
| 44 mL | 893.271050 |
| 225 mL | 893.271250 |

| Physical Properties (Cured State) | |
|--|---------------------------------------|
| Hand-tight after | 10 - 20 minutes |
| Usable after | 1 - 3 hours |
| Final strength after | 5 - 10 hours |
| Initial breakaway torque | > 30 Nm (M10) |
| Continuing torque | > 45 Nm (M10) |
| Pressure shearing strength (DIN 54452) | 12 - 15 N/mm ² |
| Operating temperature range | -55 °C to +150 °C (-67 °F to +302 °F) |

| Physical Properties (Liquid State) | |
|------------------------------------|------------------------------------|
| Chemical description | Dimethylacrylate |
| Colour | Red |
| Viscosity - 25 °C Brookfield (RVT) | 400 - 600 mPas (spindle rpm: 2/20) |
| Density | 1.11 g/cm ³ |
| Max. thread diameter | M25 |
| Max. gap filling capacity | 0.15 mm |
| Flash point | > 100 °C (> 212 °F) |
| Shelf life | 1 year at room temperature |

THREADLOCKER-MEDIUM STRENGTH (BLUE)



Screw retaining and sealing compound - removable

Provides medium strength connections

- Can be disassembled using normal tools

Curing is assured even on untreated parts

- Can be used with uncleaned parts (e.g. as delivered)

Can also be applied to stainless steel and passive surfaces

- No "accelerators" or "activators" required

Outstanding resistance to chemicals and heat

- Universal product with a wide range of applications

Prevents loosening caused by, for instance, vibrations or impact

- No safety problems, unlike, for instance, with mechanical screw retainers
- NSF Certified

| Contents | Art. No. |
|----------|-------------------|
| 9 mL | 893.243010 |
| 45 mL | 893.243050 |
| 223 mL | 893.243250 |

| Physical Properties (Cured State) | |
|--|---------------------------------------|
| Hand-tight after | 5-15 minutes |
| Usable after | 0.5-1 hour |
| Final strength after | 1-3 hours |
| Initial breakaway torque | ~ 21 Nm |
| Continuing torque | ~ 10 Nm |
| Pressure shearing strength (DIN 54452) | 8-12 N/mm ² |
| Operating temperature range | -55 °C to +150 °C (-67 °F to +302 °F) |

| Physical Properties (Liquid State) | |
|------------------------------------|--|
| Chemical description | Dimethylacrylate |
| Colour | Fluorescent blue |
| Viscosity - 25 °C Brookfield (RVT) | 5,000-7,000 mPas (spindle rpm: 1/20) 1,500-2,500 mPas (spindle rpm: 3/20) |
| Density | 1.12 g/cm ³ |
| Max. thread diameter | M36 |
| Max. gap filling capacity | 0.25 mm |
| Flash point | > 100 °C (> 212 °F) |
| Shelf life | 1 year at room temperature |

14 RUST RELEASE & PROTECTION

- 2** Rost Off Gold
- 2** Rost Off Plus
- 3** Rost Off Ice
- 4** Corrosion Protection Spray
- 5** Anti-Rust Coating
- 5** Rust Converter
- 6** Rust-Stop Quattro
- 7** Rust-Stop Primer
- 7** Zinc 300



ROST OFF GOLD



Highly-active foaming rust release agent

Long-lasting penetrating foam

- A highly focused foam that adheres to the surface as it penetrates through rust and corrosion. The penetrating action remains where you spray it.

2-in-1 rust releasing capability

- This unique formula creates an ice effect that instantly drops the temperature and helps crack heavily rusted surfaces, while the active substance continues to loosen firmly-stuck threads.

Low-consumption and anti-corrosion properties

- Provides a foaming action that reduces run-off, provides excellent moisture displacement and long-lasting protection against further corrosion.

Suitable for all work surfaces

- Produces highly-adherent no-drip foam on the work piece that clings to the surface and creeps into hard to reach areas.

Resin and acid-free

Silicone-free

Compatible with rubber and seals

| Designation | Contents | Art. No. |
|-------------|----------|-----------|
| Aerosol | 215 g | 890.20011 |

ROST OFF PLUS 400ML



High-performance rust dissolving agent with additional lubricating properties through OMC₂ technology.

Strong capillary action

- Optimal creep properties guarantee outstanding penetration and removal of rust

Contains liquid, highly effective molybdenum compound OMC₂

- In contrast to products containing solid lubricants, e.g. MOS₂, OMC₂ does not separate in larger containers
- Friction is reduced
- Best possible lubricating effect by smoothing of metal surfaces
- Compounds permanently retain gliding capability

Optimal corrosion protection owing to corrosion protection additives

Lasting protection against further corrosion

Material compatibility

Contains no silicone, resin or acid

Operating temperature

range: -10 °C to +140 °C

Areas of Application:

Loosening of extremely corroded and oxidized screws, bolts, nut connections, etc. on automobiles, trucks or construction equipment, machineries and other equipment.

| Product | Contents | Art. No. | P. Qty. |
|---------------|----------|------------|---------|
| ROST OFF PLUS | 400ml | 890.200004 | 3 |

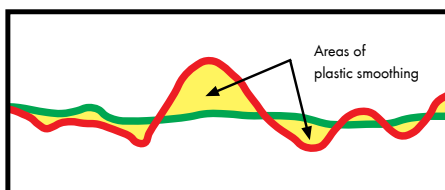
| Technical Data | |
|-------------------------------------|---------------------------------------|
| Basis | Mineral oil |
| Solid lubricant | OMC ₂ additive |
| Colour | Light-yellow transparent |
| Density at 20 °C (active substance) | 7.78 g/cm ³ |
| Temperature range | -10 °C to +140 °C (+14 °F to +284 °F) |
| Flash point of active substance | 200 °C (392 °F) |
| Base oil viscosity | 16.5 mm ² /s |

CORROSION PROTECTION

GREASE

FLUID GREASE

OIL



Original surface

Smoothed surface

Function principle of OMC₂ technology:

Viewed under a microscope, all metal surfaces are rough and are subject to continual wear and loss of substance due to friction. OMC₂ additives render metal surfaces smoother due to thermoplastic flow deformation through organo-metallic compounds. The flow deformation is controlled individually, depending on the load the metal surface is subjected to.

- Improved surface quality due to metal surface sealing
- Improved lubricating film
- Reduced thermal loading
- Less friction (up to 50% in mixed friction area)
- Reduced loss of substance
- Reduced wearing
- Longer service life

ROST OFF ICE



High-grade rust releasing agent with new freezing micro-crack technology and an excellent creeping action

Cracking effect

When the surface of the material, e.g. that of a threaded bolt, is cooled down to -40°C , microscopic cracks appear in the layer of corrosion at the joints, and these cracks break up the rust and therefore ensure better penetration by the active substance

Phenomenal capillary action

Superior creeping properties combined with the cracking effect ensure excellent penetration of rust

Ideal rust removing capability

- Penetrates rapidly underneath rust and loosens bolts that have seized up
- Extreme firmly rusted-up screw connections can be easily loosened without damaging the bolts

Ideal corrosion protection properties thanks to corrosion protection additives

Long-term protection against subsequent corrosion

Free from resins and acids

Silicone-free

No damage to rubber and seals

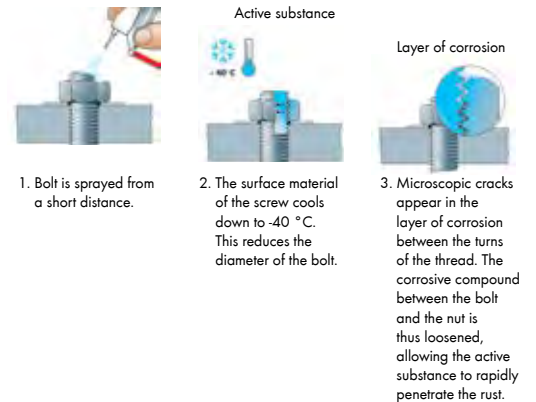
Areas of Application:

Makes it easy to loosen badly rusted-on and oxidized screw connections on cars, commercial vehicles, agricultural and construction machinery, auxiliary equipment and appliances.

| Designation | Contents | Art. No. |
|-------------|----------|----------|
| Aerosol | 292 g | 893.240 |

| Technical Data | |
|--|--|
| Basis | Petroleum |
| Colour | Pale yellow transparent |
| Density at 20°C (active substance) | 0.78 g/cm^3 |
| Temperature range | -10°C to $+40^{\circ}\text{C}$ |
| Base oil viscosity | $< 5 \text{ mpa/s}$ |

How the crack effect happens



CORROSION PROTECTION SPRAY



Creeping, colourless special fluid

Low-viscosity special oil with outstanding creeping properties

- Provides protection even in hard-to-reach areas
- Stops the spread of corrosion

Very good material compatibility on a wide range of surfaces including e.g. painted surfaces, metals and plastics

- Multi-purpose

Self-sealing, non-drying protective film

- Scratches, chips, etc. are sealed with no additional effort
- No corroding surfaces for liquids to attack

Economical: only a little required

- Save time and money

Outstanding salt-water-resistance complying with DIN 50021

- Provides excellent protection even in the toughest conditions

Areas of Application:

For the preservation of tools, machines and vehicle components, e.g. snow chain, roof racks, snowblower, forklifts, scalpels etc. Suitable for warehouse and garage door frames. Can be used in hard-to-reach areas in the engine compartment, on body flanges and in wheelhouses. Excellent protection for motorcycles and bicycles, especially during winter storage. Ideally suited for use on any surfaces and superstructures that are exposed to a high concentration of salt, e.g. by the coast, or at sea. Superb protection for boat engines/superstructures.

Recommended:

Würth Brake and Parts Cleaner

Art. No. 890.9107

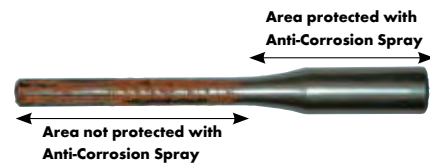
Cleaning Towels

Art. No. 899.800653

Disposable Gloves

Prefix 899

| Colour | Contents | Art. No. |
|-------------|----------|---------------|
| Transparent | 217 g | 893.15 |



ANTIRUST COATING



Art. No. 890.180900 946 mL

Super hard non-porous coating that kills rust and permanently seals out moisture, rust and corrosion. Excellent on rusted or new metal.

- Can be used to paint directly over rust.
- Seals rust permanently.
- No need to remove rust before applying.
- Dries to a perfect satin gloss and is used on exterior surfaces before final painting.
- For use on all ferrous metals.
- Can be applied over bare metal.
- Provides a thick scratch and chemical resistant coating.
- Fantastic anti-chip property.
- Colour: Black

For best results:

- Rusty and painted surfaces should have paint removed.
- Dry, flaking rust should be removed with a wire brush.
- Wipe clean with W-Sol, Art. No. 890.113 to remove grease or dirt.
- Ensure surface is dry.
- Apply a second coat to completely seal the first. Allow to dry thoroughly before applying a second coat.

RUST CONVERTER



Art. No. 893.110 1 L

Dispersion based Rust Converter. Rust Converter neutralizes the corrosion process by converting rust and ferrous oxides into a stable and insoluble, blue-black Metallo-organic complex.

Features:

- May be painted over and filled after the reaction time (3 hours)
- Not harmful to the environment
- After the reaction time of 3 hours, the surface may be over painted with any commercial paint systems or with the underbody protection systems
- May also be filled with polyester fillers

Applications:

Trunks, wheel wells, pillars, pinch welds. Contains a creeping agent ideal for hard to reach areas of contamination

RUST-STOP QUATTRO



Fast-drying universal primer with a broad range of applications.

4 in 1

- Primer
- Adhesion agent
- Corrosion protection
- Welding primer

Priming

- Reliably prevents further rusting with anti-oxidation formula

Adhesion agent

- Good application surface structure for further painting work.
- Suitable for use in conjunction with PU and MS polymer sealing compounds.

Corrosion protection

- Excellent long-term protection against oxidation.
- Outstanding resistance to splashed and salt water

Welding primer

Can be welded through both wet and dry

Very high thermal stability up to

- 300 °C (572 °F), and briefly up to 500 °C (932 °F)

VOC*- compliant

- Solvent reduced.
- Complies with the VOC minimum content specified in the VOC Directive (1999/13/EC)

* Volatile Organic Compound

Properties:

Unique combination of primer, adhesion agent, corrosion protection and welding primer in one product.

Applications:

Freight forwarding companies, transport companies, commercial-vehicle repair workshops, vehicle construction, building crafts, concrete mixing plants, agriculture, forestry, communities, etc.

| Colour | Contents | Art. No. |
|-------------|----------|----------|
| Silver Grey | 300 g | 893.2141 |



Note: Turn can upside down and spray until valve is empty after use.

RUST STOP PRIMER



Active corrosion protection for metallic surfaces

Good adhesive properties

- Adheres to aluminum, bare and galvanized metal sheets, steel, old paint, etc.

Quick drying

- Depending on layer thickness, can already be painted over after 10-15 min.

Thermally stable up to 80 °C, and briefly up to 140 °C

Can be sanded well

VOC*-conformant

- Solvent reduced.
- Complies with VOC maximum content specified in the VOC Directive (1999/13/EC)

*Volatile Organic Compound

Properties:

Active corrosion protection and adhesive primer with good adhesive properties on a wide variety of surfaces, including in conjunction with PU and MS polymer sealing compounds.

Applications:

Vehicle construction, ship building, metal and steel construction, tool manufacturing, bridge building, tank construction, pipeline construction, container construction, agriculture and forestry, municipal management, construction machines, etc.

| Colour | Contents | Art. No. |
|--------------|----------|----------|
| White - Grey | 332 g | 893.2101 |

Note: Turn can upside down and spray until valve is empty after use.

ZINC 300



Art. No. 892.200 – 500 mL

- Provides good protection against corrosion from atmospheric influences
- Resistance up to approximately 300 °C
- Visually identical to hot galvanizing
- Two or three coats on the repaired surface will provide the required layer of thickness according to D.I.N. 50976
- Fast drying (dust dry after approximately 15 minutes; fully dry after approximately 6-3 days)
- Surface has to be dust, grease, and rust free according to D.I.N. 55928, up to the derusting degree SA 2.5 and must also be dry

Application:

- The layer thickness of the repair film should be 1.5 times that of hot galvanizing
- The repair coat should overlap the hot galvanizing area by at least 1 cm
- Can be welded through
- Can be applied with a paint gun, airless, or with a brush
- Cannot be over-painted

Application area:

- Steel construction, ship building, forging, locksmiths, and vehicle building



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15 **CLEANING & DETAILING**



- 2 Metal Cleaning**
- 5 Graffiti Removers**
- 6 Eco Dilution System**
- 6 Deodorizer & Odour Eliminator**
- 7 Glass Cleaners**
- 10 Hand Cleaner & Skin Protection**
- 14 Floor & Workshop Cleaners**
- 15 Scale & Residue Cleaners**
- 17 Degreasers & Disinfectants**
- 21 Vehicle Cleaning**
 - 22 Interior Vehicle Cleaning
 - 25 Exterior Vehicle Cleaning
 - 27 Polishes & Accessories
- 36 Specialty Cleaners**
- 45 Cloths & Brushes**
 - 45 Cloths
 - 47 Swabs
- 47 Absorbents, Towels, & Wipes**

STAINLESS STEEL CARE SPRAY



Art. No. 893.121 342 g

Cleaning and care emulsion for metallic surfaces

Gentle, creamy emulsion with cleaning effect

- Dirt, polishing and wiping streaks, as well as oily fingerprints are removed thoroughly
- Suitable for use on vertical surfaces

AOX- and silicone-free

Directions:

Spray on a dry surface, polish with a soft cloth and wipe thoroughly.

Note: Do not spray onto hot surfaces and do not apply in direct sunlight.

STAINLESS STEEL POWER CLEANER



Art. No. 893.1212 500 mL

Special cleaning fluid for preliminary cleaning of metal surfaces

Powerful removal of oil and grease

- Contaminations such as boring or cutting oil and other processing residue are removed thoroughly
- Optimal preparation for further refinishing, cleaning and care
- Very economical

Certified for use near foodstuffs

- Recognized as safe for use in food processing, such as catering kitchens, cafeterias, slaughterhouses, food transports, etc.

Contains no phosphates, organic solvents or caustic substances

- Reduces danger potential in daily handling
- Minimizes burden on the environment
- Meet local waste water regulations
- Not subject to identification under Dangerous Substance Decree
- NSF A1 Certified

Biological degradability > 95%

Colourless and odourless

pH value undiluted: 9.0 - 9.5

AOX- and silicone-free

Areas of Application:

For stainless steel, chrome, brass, anodized and enamelled surfaces, as well as light and non-ferrous metals on vehicles, boats and other applications, in household and in the food processing industry.

Note: Avoid direct contact with foodstuffs.

METAL RESTORER



| | |
|--------------------|----|
| Talc | 1 |
| Gypsum | 2 |
| Apatite | 5 |
| Quartz | 7 |
| Alumina (abrasive) | 8 |
| Sapphire | 9 |
| Diamond | 10 |

*Mohs' hardness scale

Art. No. 893.1211 286 mL

Metal grinding paste for removal of the most stubborn contaminations from metal

Contains activated citric acid

- Stubborn contaminations, such as metal oxidation, rust film, verdigris, lime and boiler scale are removed thoroughly and gently

Use of natural alumina as abrasive substance

- Supports effective cleaning due to different grain sizes
- Spherical shape and hardness* of alumina assure gentle, mild yet powerful cleaning

Protective additives with re-greasing characteristics

- Creation of a smooth and water-repellent surface finish
- Renewed dirt deposits are effectively prevented

Highly viscous

- No run-off from vertical surfaces
- Easier to work on vertical surfaces
- NSF A1 Certified

Tested for usability in food processing

- Safe for use in food processing plants, such as canteens, cafeterias, slaughterhouses, food transports, etc.

Not subject to mandatory labelling according to harmful substance decree

Made with natural raw materials

pH value: 1.6

Density: 1.4 kg/l

Areas of Application:

Metal surfaces of stainless steel, chromium, brass, copper, aluminum, gold and silver. Suitable for use in vehicles, in technical equipment, in the household and in food processing. Also suitable for glass and glass ceramics.

Directions:

Apply sparingly to the surface to be cleaned. Polish with a damp/wet sponge or cloth in circular motions. Rinse thoroughly with water, making sure no residue is left behind.

Recommendation:

Pre-clean with Stainless Steel Power Cleaner, **Art. No. 893.1212.**

Note: Avoid direct contact with food. Do not use on anodized aluminum and galvanized or enamelled surfaces.

ECO-LUSTRE METAL POLISHER



Art. No. 893.15460 500 mL

Restores original lustre to a variety of metal surfaces

Made from sustainable resources

- A better choice for your health and for the environment

No chlorinated solvents

- No VOCs
- Creates absolutely no harsh vapours
- Gentle on materials and surface finishes

Easy to use

- Spray on, wipe off
- Cleans and shines without abrasives or heavy creams
- Leaves a preservative coating to help prevent fingerprints or marks from appearing

Areas of Application:

Automotive and Trucking

- For use on chrome bumpers, aluminum wheels, brass and stainless steel parts and also on copper, zinc and mild steel

Metal and Maintenance industries

Cleans and polishes stainless steel appliances, aluminum, brass, copper, zinc and mild steel, fixtures, elevator doors, drinking fountains, paper receptacles, etc.

Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle **Art. No. 891.502200**

ECO ALUMINUM BRIGHTENER



A powerful, biodegradable aluminum cleaner that removes stains, discoloration and oxidation from aluminum

Features:

- Provides a safe and effective alternative to acid cleaners without producing corrosive fumes or vapors
- Non-caustic and non-corrosive
- Safe for use on all metals, including stainless steel
- Free of VOC's

Applications:

Ideal for cleaning trailers, RV's, motorcycles, auto parts, trim, carts, tables, stainless steel, pontoons, aluminum boats, masts, booms, outriggers and fishing towers.

Directions:

Spray directly on surface to be cleaned. Allow to remain for 1 to 3 minutes for maximum effect, then clean the area and follow with a thorough rinsing. Do not let product dry on finishes. Mist with water or reapply product to keep wet.



| Contents | Dilution | Art. No. | P. Qty. |
|----------|--------------|-------------------|---------|
| 1 L | Ready-to-use | 893.162810 | 1 |

GRAFFITI REMOVER



Art. No. 893.135902 453 g

- A cleaning gel formulated to remove graffiti, stains and vandalism marks from almost any non-porous surface including masonry.
- Thick gel will not run or drip.
- Removes: lipstick, ballpoint pen ink, crayon, marker ink, black rubber marks, pencil, mimeo ink, scuff marks, masking tape, adhesives, road tar and any other marks.
- An essential product for schools, municipalities, hospitals, bars, restaurants and mass transportation.
- Does not contain any chlorinated solvents.

Application:

Ideal for use on fibreglass, brick, concrete, glazed and unglazed tile, marble, Formica, enamelled surfaces, aluminum, steel, brass, glass, chrome, enamels, restroom stalls, metal partitions, road signs, fences, bridges, desk tops, furniture, walls, corridors, doors and other surfaces exposed to the public. Care should be exercised when used on synthetic surfaces which are susceptible to solvent damage (asphalt, tile, rubber, some paints and some plastics).

Not recommended on flat or semi-gloss painted surfaces.

ECO GRAFFITI REMOVER



Art. No. 893.13550 500 mL

A safer environmentally friendly vandalism mark remover

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- A better choice for your health and for the environment

A highly effective natural solvent

- Removes marks caused by crayons, marker pens, ballpoint pen, spray paint, carbon paper, adhesives, lipstick, masking tape and mimeo ink

Safe and easy-to-use

- No harsh fumes
- Pleasant odour
- Does not contain ingredients that are harmful to your health, like solvents
- Ready-to-use dilution

Areas of Application:

- Ideal for brick, concrete, tiles, marble, enamelled surfaces, restroom stalls, road signs, fences, bridges, desktops, furniture, walls, doors and other surfaces exposed to the public.
- Ideal for workplace or bar washrooms, school desks and lockers, parking meters, puck marks on arena boards and municipalities for graffiti on overpasses and buildings, etc.

Note:

Do not use on Plexiglass surfaces.

This 500ml bottle is equivalent to two aerosol cans of regular Graffiti Remover!

Note:

Use with Nitrile Gloves,
Art. No. 899.44010+size
Softex Sheets
Art. No. 899.800901

DEODORIZER SPRAY



Art. No. 893.13920 500 mL

Suitable for almost all textiles

- Universal usage
- Leaves no residue behind
- No specking
- Colourless

Specially selected combination of raw materials

- Fast and long-lasting effect
- Odour molecules are not covered as with air freshener products, but are removed completely in a natural way

Fine-mist hand-spray bottle

- Fine and even spray covering the entire surface without soaking it
- Very short drying time
- Quick application

AOX-free

Areas of Application:

Neutralizes all unpleasant odours, such as cigarette smoke, sweat, animal, mould and cooking odours, which may occur in a vehicle interior, driver's cabs, on upholstery, carpets, curtains and clothing.

Note: Water-sensitive textiles (e.g. silk) must be tested before use. Not suitable for leather or suede.

ECO CHEMICAL DISPENSER/DILUTER



Art. No 891.030100

The Würth chemical dispenser mixes water with concentrated cleaning chemicals and dispenses these solutions.

- It is set up to dispense 2 chemicals, one at high flow thanks to a 4 gpm valve (for pails and buckets), and one at low flow thanks to a 1 gpm valve (specially designed to fill bottles and avoid too much foaming).
- The dispensing unit comes with 14 different colour-coded metering tips, each offering a different dilution ratio.
- The dispenser is equipped with ASSE 1055B approved back flow devices.

Water supply requirements: min. 20psi (1.38 bars) and max. 125psi (8.62 bars)

Water temperature: max. 65.5°C (150°F)

What comes with the dispensing unit:

- 2 X vacuuming hoses (1/4" ID X 8" length)
- 1 X dispensing hose (1/2" ID X 6" length)
- 1 X 14 metering tips (for dilution ratios)
- 2 X ceramic weights (to keep hoses at the bottom of the chemicals containers)
- 1 X set of chemical identification labels
- 1 X set of 4 screws and 4 plastic anchors (to fix dispenser on wall)

6' water supply hose available separately: **Art. No. 891.030101**

Note: Refer to the appliance manual for more information (see our e-shop for details).

ECO ODOUR ELIMINATOR



Environmentally friendly permanent odour eliminator and deodorizer.

Highly effective odour eliminator and deodorizer

- Permanently eliminates even the toughest and rankest smells.
- Won't absorb the good smells, so your room stays smelling fresh!
- Not affected by high temperatures.

Rapidly binds to bad odour molecules.

- Completely eliminates the odour at the source.
- Fast, effective and long-lasting odour control.
- Won't release the malodour back into the air even when it dries.

Long lasting effect.

- Continues to absorb odours as long as the active ingredient has not been used up by the odour, even when dry.
- Reactivate it simply by wetting.
- Works on both soft and hard

surfaces, and in the air.

Environmentally friendly product.

- Completely biodegradable.
- Made from 100% sustainable resources.
- VOC free.
- Completely soluble in water.
- Phosphate-free.
- A better choice for your health and for the environment.

Areas of Application:

Both soft and hard surfaces. Kitchen and bathrooms, waste collection and recycling, garbage collection areas and containers, carpets and upholstery, vehicle interiors, kennels, sewage treatment, etc. Anywhere odours are a problem!

| Scent | Content | Art. No. | P. Qty. |
|------------|---------|-------------------|---------|
| Kiwi-Mango | 500 mL | 893.139401 | 1/12 |
| | 4 L | 893.139404 | 1/4 |
| Spring | 500 mL | 893.139402 | 1/12 |
| | 4 L | 893.139403 | 1/4 |

Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle **Art. No. 891.502200**

BIOLOGICAL ODOUR ELIMINATOR



Biologically active odour eliminator and deep cleaner.

Highly effective odour eliminator and deep cleaner.

Eliminates even the toughest and rankest smells.

Rapidly breaks down bad odour molecules.

Completely eliminates the odour at the source. Fast, effective and long-lasting odour control.

Works on both soft and hard surfaces.

One product for multiple applications.

EcoLogo certified

- Completely biodegradable.
- Made from 100% sustainable resources.
- VOC free.
- Completely soluble in water.
- Phosphate-free.
- A better choice for your health and for the environment.

Safe to use in food processing plants.

Areas of Application:

Both soft and hard surfaces. Vehicle interiors, public transportation, garbage collection areas and containers, urinals, fitness facilities, pet stores, upholstery and carpets.

Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle
Art. No. 891.502200

| Scent | Content | Art. No. | P. Qty. |
|---------|---------|-------------------|---------|
| Neutral | 500 mL | 893.139301 | 1/12 |
| | 4 L | 893.139308 | 1/4 |

GLASS CLEANER



Alcohol and ammonia free formula, 0% VOC

Features:

The Würth Glass Cleaner does not contain any alcohol, ammonia, phosphate or volatile organic compounds; its water-based formula makes it completely safe for the user, the surface treated and the environment. Quickly and efficiently cleans dirt, grime, smoke and road film. Does not leave any streaks, haze or film on the surface. Completely safe for tinted windows, plastic windows, plexiglass and computer screens. Perfect for general cleaning and vehicle detailing.

Areas of Application:

Glass and windows, windshields, mirrors, plexiglass, chrome and stainless steel.

Recommended: Tap for the 20 L pail **Art. No. 891.302.03**

| Description | Contents | Art. No. |
|---------------------------|----------|-------------------|
| Glass Cleaner Concentrate | 4 L | 893.012104 |
| | 20 L | 893.012120 |

ECO GLASS CLEANER



Biodegradable streak, haze and film-free glass cleaner

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- Completely soluble in water
- A better choice for your health and for the environment

Powerful cleaning

- No abrasives that could scratch the finish
- Easily dissolves smudges, film, grime, bugs, etc.
- Active ingredients loosen and suspend dirt so that it can easily be wiped off

Safe and easy-to-use

- Odourless
- Alcohol and ammonia free
- Biodegradable
- pH: 8.0
- Spray on and wipe off



Areas of Application:

- Würth Eco Window and Glass Cleaner is ideal for every glass surface
- Brightens and cleans windows, mirrors and all hard surfaces.
- Because it is free of solvents, it is also safe for use on LCD screens (computer monitors, etc.)

| Contents | Colour | Art. No. |
|----------|--------------|-------------------|
| 1 L | Blue | 893.012610 |
| 4 L | | 893.012611 |
| 1 L | Empty Bottle | 891.501212 |

| Dilutions | |
|-----------------|---|
| Formulation | Dilution |
| 1 L Spray | Ready-to-use formula |
| 4 L Concentrate | Dilute 1 part concentrate with 10 parts water |



Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle **Art. No. 891.502200**

CLEAN AND REPEL GLASS CLEANER



Art. No. 890.22050 500 g

- Cleans effectively and coats glass with an invisible layer of protection that repels water
- Streak-free cleaning
- Repels rain by causing water to bead up and roll away
- Helps prevent bugs, road spray, ice and snow from sticking to glass
- Increases wiper blade life
- Improves wet weather driving visibility
- Ammonia-free
- VOC compliant
- Biodegradable
- Not suitable for polycarbonate glass ("bulletproof" glass)

PREMIUM GLASS CLEANER



Art. No. 890.9026 517 g

- Removes stubborn dirt, grease, grime, road salt, light paint over-spray, smoke, haze and bugs
- Streak free: Will never smear, haze or leave a film
- Ammonia fortified, silicone free and special non-detergent formula
- Will work on surfaces such as glass, tile, porcelain, stainless steel, chrome and vinyl
- Shake can well before use

Note: Use in well-ventilated areas.

ACTIVE GLASS CLEANER



Art. No. 890.25 445 g

Cleaning foam for glass and smooth surfaces

Stable cleaning foam

- No run off from vertical surfaces

Extremely active cleaning foam

- Upon bursting of the foam bubbles, highly concentrated, active cleaning agents are released to directly attack the dirt
- Outstanding dirt dissolving power

A little product goes a long way

- Cost savings
- Reduced work effort

Gentle on material

- Non-aggressive on paint, rubber and plastic

Silicone and AOX-free

Areas of Application:

- Dissolves insects, bird droppings and road dust, nicotine deposits, grease, silicone and rubber residue from glass surfaces, mirrors and paintwork.

Use:

For optimal foaming, shake can vigorously prior to use.

Note: Do not apply to hot surfaces or in direct sunlight. Not suitable for polycarbonate glass.

GLASS CLEANER



Art. No. 890.9025 525g

Features:

- Removes insects, bird droppings, smoke deposits, grease, silicone, adhesive residue, etc
- Also cleans painted surfaces such as radiator grills, hoods, as well as porcelain, ceramic and tiles
- Must clean with a paper cloth to obtain a streak-free finish
- Does not attack rubber, paint or plastics
- Spray surfaces evenly and leave for 30 seconds to allow active ingredients to work
- Does not run on vertical surfaces
- 500 mL

Note: Use in well ventilated areas

PX3 PLUS SPECIAL HAND CLEANER



Hi-tech professional hand cleaner with micro-grain scrubbers specially formulated for the effective removal of paints, inks, adhesives, lacquers, putty and sealants.

Features & Benefits:

- Contains special ingredients to clean extreme soils such as paints, inks, adhesives, lacquers and sealants

- Contains Pro-vitamin B5, Vitamin C and Vitamin E
- Solvent free and silicone free
- Environmentally friendly formula
- Skin-friendly formula

Fragrance:

- Lavender

pH Value:

- Approx. 6.5

| Colour | Content | Art. No. |
|-------------|---------|------------|
| Grey/Purple | 444 mL | 893.901001 |

HAND CLEANERS FOR DISPENSERS



Hand Cleaner Industrial Strength

Features:

- Powerful citrus hand cleansing gel.
- Increased cleaning power because of skin friendly micrograins.
- Extra powerful because of active citrus ingredients.
- Effective for removing heavy soils such as tar, paint, glue and lacquer.
- Available in 3 liter cartridge.

Hand Cleaner with Walnut Scrub

Features:

- Contains natural walnut shell scrubbers to safely and effectively remove dirt, grease, lubricants, diesel, brake fluid, cement, rust and many other hard to remove soils.
- Fortified with skin care ingredients.
- Leaves no greasy residue behind
- Solvent free and silicone free
- Biodegradable environmentally friendly formula
- Free of VOCs and NPEs (Nonylphenol ethoxylates)

Fragrance:

- Lavender

pH Value:

- Approx. 6 - 6.5

Hand Cleaner Solvent Free

Features:

- Solvent-free, heavy-duty hand cleansing paste.
- Extra active because of skin friendly micrograins.
- Use on wet hands.
- Effective for removing medium-to-heavy soils such as lubricants, diesel, brake fluid, cement and rust.
- Available in 3 liter cartridge.

***Note:** Soil types are general. Actual results may vary.

| Description | Contents | Art. No. | P. Qty. |
|----------------------------------|----------|------------|---------|
| Hand Cleaner Solvent Free | 3L | 893.93402 | 1 |
| Hand Cleaner Industrial Strength | | 893.93401 | |
| Hand Cleaner with Walnut Scrub | | 893.934040 | |

For use with: Automatic Hand Cleaner Dispenser **Art. No. 891.935**
and Manual Hand Cleaner Dispenser **Art. No. 891.9351**

HAND CLEANER DISPENSERS



For use with:

Hand Cleaner Solvent Free **Art. No. 893.93402**
 Hand Cleaner Industrial Strength **Art. No. 893.93401**
 Hand Cleaner with Walnut Scrub **Art. No. 893.934040**

Automatic Hand Cleaner Dispenser

Art. No. 891.935

Unique, touch-free dispensing system for optimal hygiene.

Automatic, touch-free dispensing

Improves hygiene and dramatically reduces product consumption.

Quantity control guarantees economical use

The metered 5 mL output provides up to 600 applications per 3 litre container.

Accurate dosage

Infra-red sensor assures dose only when hand is in position

Permanently sealed

No access to the product in cartridge except through dispenser.

No waste

Disposable cartridge empties 100%.

Secure, convenient, no-mess

Easy reloading with cartridge locked in place.

Professional-quality product

Made of high quality, robust and strong components.

Includes wall mounting bracket

Requires 8 "AA" batteries (included)



For use with:

Hand Cleaner Solvent Free **Art. No. 893.93402**
 Hand Cleaner Industrial Strength **Art. No. 893.93401**
 Hand Cleaner with Walnut Scrub **Art. No. 893.934040**

Manual Hand Cleaner Dispenser

Art. No. 891.9351

Quantity control guarantees economical use

The metered 5 mL output provides up to 600 applications per 3 litre container.

Accurate dosage

Permanently sealed

No access to the product in cartridge except through dispenser.

No waste.

Disposable cartridge empties 100%.

Secure, convenient, no-mess.

Easy reloading with cartridge locked in place.

Professional-quality product.

Made of high quality, robust and strong components.

Includes wall mounting bracket.

APPLE SEED SCRUB HAND CLEANER



Art. No. 890.600640 - 4 L

Solvent free, environmentally friendly hand cleaner that cleans, moisturizes and promotes healthy skin with abrasive apple seed technology.

Features & Benefits:

- Natural apple seed pumice
- 100% solvent & petroleum free
- Biodegradable
- Effectively cleans tough grease and grime
- Prevents and heals dry, cracking skin
- Gentle on sensitive skin types such as dermatitis prone skin
- Hand pump included

HAND CLEANER WITH PERLITE SCRUB



A hand cleaner containing natural perlite mineral as a scrubbing agent to remove medium to heavy soiling.

Features & Benefits:

- Contains natural perlite as the scrubbing agent to remove dirt without harming the skin.
- Contains moisturizing agents that help protect the skin.
- Removes soiling such as pollution, oil, grease, printing inks, fat, tar, bitumen, lubricants, dust, soot and graphite.
- Free of silicone, alkali and soap.

| Size | Scent | Colour | Art. No. |
|------|--------|--------|-------------------|
| 3 L | Citrus | White | 893.900001 |

HAND CLEANER WITH OLIVE SCRUB

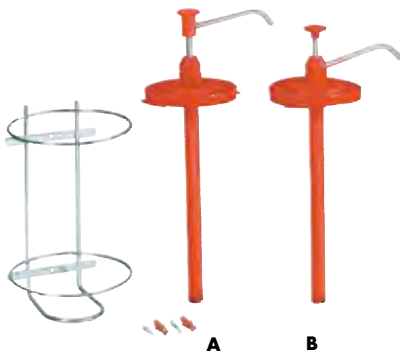


A mild solvent free hand cleaner with a pleasant smell that can remove a wide range of industrial soils.

- Contains skin compatible raw materials with soft, natural olive based abrasives.
- Suitable for daily use without any negative effect on the skin.
- Free of silicone and solvents.
- Works to remove stubborn and ingrained dirt like oil, grease, tar, printing or duplication inks.
- Can be used in applications such as industrial manufacturing, garages and body repair shops.
- Can be used on dry or wet hands.
- Appearance – viscous gel
- Odour – fresh citrus scent
- pH Value – approx. 6.5

| Colour | Contents | Art. No. | P. Qty. |
|------------|----------|-------------------|---------|
| Red/Orange | 3 L | 893.905001 | 1 |

HAND CLEANER PUMPS



Use with Art. No. 893.900001 & Art. No. 893.905001

| Item | Contents | Art. No. | P. Qty. |
|------|--|-----------------|---------|
| A | 1 suction pump, 1 wall mount with screws and plugs | 891.900 | 1 |
| B | 1 Suction Pump | 891.9011 | |

HAND CLEANER SOIL CHART

| TYPE OF SOIL | INDUSTRIAL STRENGTH 893.93401 | SOLVENT-FREE 893.93402 | WALNUT SCRUB 893.934040 | APPLE SEED SCRUB 890.600640 | PERLITE SCRUB 893.900001 | OLIVE SCRUB 893.905001 | PX3 PLUS 893.901001 |
|-----------------------------|----------------------------------|---------------------------|----------------------------|--------------------------------|-----------------------------|---------------------------|------------------------|
| ADHESIVES - WATER SOLUBLE | | • | • | • | • | • | • |
| ANIMAL FATS | | • | • | • | • | • | |
| ASPHALT | • | • | | • | | | |
| BATTERY ACID | | • | • | • | | • | |
| CARBON BLACK | • | • | • | • | • | | |
| COAL DUST | • | • | • | • | • | • | |
| COAL TAR | • | | | • | • | | |
| CREOSOTE | • | | • | | • | • | |
| CUTTING OIL - OIL SOLUBLE | • | | • | • | • | | |
| CUTTING OIL - WATER SOLUBLE | • | • | • | • | • | • | |
| DIESEL OIL | • | • | • | • | • | • | |
| DIRT (LIGHT DUTY) | | • | • | • | • | • | |
| FUEL OIL | • | • | • | • | • | • | |
| FUEL OIL #6 (HEAVY) | • | | | | • | | |
| GASKET CEMENT/ SEALANT | • | | | | | | • |
| GASOLINE | • | • | • | • | • | • | |
| GRAPHITE | • | • | • | • | • | | |
| GREASE | • | • | • | • | • | • | |
| HOT MELT GLUE | • | | | • | | | |
| INK - ALCOHOL BASED | • | • | | • | | • | • |
| INK - OIL BASED | • | | | | | | • |
| INK - WATER BASED | | • | • | • | • | • | • |
| PAINT - LATEX | • | • | • | • | | • | |
| PAINT - OIL BASED | • | | | • | | | • |
| PIPE DOPE | • | • | • | | | | |
| PITCH | • | | | • | | | |
| RUBBER CEMENT | | • | • | • | | | |
| SAP | | • | • | • | • | | |
| SILICONE SEALANTS | • | | | | | | • |
| TAR | • | | | | | | |
| UNDERCOATING | • | | | | | | |

*SOIL TYPES HAVE BEEN GENERALIZED FOR EASE OF CATEGORIZATION. ACTUAL RESULTS MAY VARY.

UNIVERSAL WORKSHOP CLEANER



Art. No. 893.124 5 L

Powerful cleaner in a pH-neutral range with extremely high capacity of dissolving dirt on floors, machinery and in plants

- Reduces ecological damage
- Reduces risk potential in daily work
- Saves raw material resources
- Avoids waste material
- Best quality for highest demands

Features:

- Biodegradable >95% (mod. OECD and closed bottle test)
- Oily-greasy dirt is not emulsified, but loosened by sub-surface penetration
- Quickly separates in waste water according to Austrian Standard test B 5105
- Gentle on skin
- Does not contain AOX or organic solvents
- Phosphate free
- Does not mobilize heavy metals in inshore waters
- Silicone free
- Can be used on all conventional surfaces

Application Areas:

Can be used manually or in high-pressure equipment for cleaning engines, machinery, tools, vehicles, floors of all kinds (except carpeting), canteen kitchens, butcher's shops and bakeries.

| Concentration level when used: | |
|--------------------------------|---------|
| Floor cleaning machines | 3 - 10% |
| High-pressure equipment | 3 - 5% |
| Manual cleaning | 3 - 50% |

BIOLOGICAL FLOOR CLEANER CONCENTRATE



Biologically active "dirt eating" floor cleaner

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- Completely soluble in water
- Phosphate-free
- A better choice for your health and for the environment

Powerful cleaning

- Highly effective immediate cleaning
- Provides long-term deep cleaning by removing embedded residual organic material found in pores, cracks, crevices and corners
- Cleans floors and grout
- Cleans without harsh chemicals

Improves the quality and cleanliness of the workplace

- Reduces slippage through the removal of grease on floors
- Improves the waste stream by creating a biofilm in drains, reducing organic build-up
- Controls malodours
- Reduces conditions that encourage pests

Safe and easy-to-use

- pH: 7.5-8.5

Application:

Works best on vegetable/animal oil and grease. Specifically designed to penetrate porous floor surfaces to degrade and eliminate grease and other organic materials that can accumulate over time. Biological Floor Cleaner produces enzymes that will break down the fatty acid components of grease. The microbes continue cleaning long after you have finished.

Dilution:

Mix 12 - 25 ml of product per litre of water

| Contents | Dilution | Art. No. |
|----------|-------------|------------|
| 4 L | Concentrate | 893.117218 |

CONCRETE FLOOR CLEANER



Art. No. 893.117220 20 L

Non-chlorinated, non-petroleum solvent-based liquid cleaner/degreaser

- Floor Cleaner utilizes a natural citrus-based di-limonene formula with a high pH level chemistry
- Low VOC (Volatile Organic Compound) and has a pleasant citrus fragrance
- Can be diluted with water or used full-strength. Diluting will not affect pH level
- For use in garages, service bays and high-traffic areas

POWDER FLOOR CLEANER



A powerful and safe floor cleaner that removes the most stubborn grease and oil stains.

Features:

- Contains cleaning agents that penetrate, emulsify, and dissolve ground-in dirt and stains.
- Phosphate-free and biodegradable
- Safe on all metals and wood floors

Applications:

- Ideal for cleaning cement floors in garages and service pits, as well as concrete driveways.

Directions:

- **For general cleaning:** Wet floor with water and sprinkle powder on floor. Allow to stand for 5-10 minutes and then brush off. Rinse with clean water using a hose or mop.
- **For stubborn grease or oil stains:** Sprinkle powder directly on stain with a small amount of water. Allow to stand for several minutes and then rub with a stiff brush. Rinse floor with clean water using a hose or mop.
- **For the toughest cleaning jobs:** Dissolve powder in hot water at a ratio of 1/2 cup per gallon. Apply to dirty surface and scrub. Rinse thoroughly with water.

| Contents | Art. No. | P. Qty. |
|----------|-------------------|---------|
| 20 kg | 893.117221 | 1 |

ECO SCALE REMOVER



Biodegradable all-purpose acid replacement.

EcoLogo certified.

- Completely biodegradable.
- Made from 100% sustainable resources.
- VOC free.
- Completely soluble in water.
- Phosphate-free.
- A better choice for your health and for the environment.

A safe acid alternative.

- No abrasives that could scratch the finish.
- Cleans stubborn water scale, lime deposits, rust stains, light corrosion, mildew and mold. Creates no harsh vapours.

Safe and easy-to-use.

- Biodegradable.
- Low impact on aquatic life.
- Septic tank friendly.

Areas of Application:

Ideal for ceramic, grout, terrazzo, quarry tiles, concrete, brick, stainless steel, aluminum, copper and brass. Can also be used to clean scale deposits, moulds and algae on boat hulls.

| Contents | Formulation | Art. No. | P. Qty. |
|----------|--------------|-------------------|---------|
| 1 L | Ready-to-use | 893.122500 | 1/12 |
| 4 L | | 893.122504 | 1/4 |
| 20 L | | 893.122520 | 1 |
| 500 mL | Empty Bottle | 891.12250 | - |



Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle
Art. No. 891.502200

ECO HF ACID REPLACEMENT



All-purpose industrial cleaner for the removal of calcium, silica, and oxidation in place of harmful hydrofluoric acid

Powerful scale remover

- Removes tough water scale, lime scale, silica scale, organic deposits, and rust stains.
- For use on stainless steel, and aluminum metals

| Contents | Dilution | Art. No. |
|----------|--------------|-------------------|
| 4 L | Concentrated | 893.162804 |
| 20 L | Concentrated | 893.162800 |

Safe alternative to hydrofluoric acid

- Completely biodegradable and environmentally safe
- Does not exhibit the highly hazardous properties of hydrofluoric acid
- Eliminates the need to file an OHS risk management plan
- Absolutely no corrosive fumes
- Non-corrosive to skin
- No unwanted reactions with other cleaners

TAR REMOVER



Areas of Application:

Effortlessly removes tar, oil and splashes of underbody protection and hollow cavity sealant from paint and chrome.

Use:

Spray on directly or apply to the surface to be treated with a saturated cloth, allow to soak in briefly and remove with a cloth or soft sponge.

| Designation | Contents | Art. No. |
|-------------|----------|---------------|
| Aerosol | 224 g | 890.26 |

W-SOL RESIDUE REMOVER



Solvent-based cleaner that removes dirt, grease, tar, residue, wax and silicone.

Features:

Universal solvent used for general cleaning. Safe to use on new cars, on acrylic and lucite finishes. Can be used as a thinner for adhesive sealers.

| Contents | Art. No. |
|----------|-----------------|
| 448 g | 890.1130 |

INSECT REMOVER



Special cleaner for the quick and reliable removal of insect residue from glass, chrome, paint and plastic surfaces.

Features:

- Deep cleaning, active, foam formula removes even stubborn and dry insect residue quickly and gently without attacking the surface
- Ideal to be used as a pretreatment prior to washing vehicles or machinery
- Quick and easy application
- Gentle on materials such as chrome, plastic, rubber, etc.
- Will not attack paint coatings.
- Silicone free
- AOX-free

| Content | Art. No. | Format |
|---------------|--------------------|--------------|
| 500 ml/ 573 g | 893.470001 | Spray bottle |
| 5L/ 5370 g | 893.470002* | Container |
| 20L | 893.117127 | Concentrate |

*will be available soon.

Areas of Application:

- Windshields/windows
- Radiator grills
- Bumpers
- Headlights
- License plates
- Mirrors

Method of Application:

- Lather contaminated surfaces with insect cleaner evenly
- Product is ready to use in all formats. No dilution required
- Let product sit on the surface for approximately 5 minutes for maximum performance
- Rinse the surface thoroughly with water
- To avoid surface scratches, rinse off particularly heavy or abrasive dirt before using the product

| Description | |
|----------------|---------------------|
| Colour | Clear |
| Chemical basis | Anionic surfactants |
| pH value | 10 |

Note : Do not apply product on hot surfaces or carry out applications in direct sunlight. Do not let the product dry out.

ECO SUPER SPRAY ALL



Multi-purpose cleaner and degreaser

- This powerful degreaser cuts heavy grease, oil, dirt and soil quickly and effectively.
- Can be used on most interior and exterior hard surfaces including vinyl, rubber, painted surfaces, metal, porcelain, fibreglass and plastic.
- Eco-Logo certified.
- Completely biodegradable.
- Made from 100% sustainable resources.
- VOC free.

| Description | Contents | Art. No. |
|---------------------|----------|-------------------|
| Eco Super Spray All | 1 L | 890.90901 |
| | 4 L | 890.90904 |
| | 20 L | 890.909020 |



Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle
Art. No. 891.502200
Tap for 20 L **Art. No. 891.302.03**

ECO INSTITUTIONAL HARD SURFACE CLEANER



Eco-friendly multi-purpose hard surface cleaning and degreasing agent

Features & Benefits:

- Environmentally friendly, water-based alternative to toxic, caustic and solvent based cleaning compounds
- Free of petroleum hydrocarbons and non-flammable
- Biodegradable
- Requires no special protective clothing to handle these products
- Safe and easy to use on any washable surface
- Accepted for use by the Canadian Food Inspection Agency (CFIA)

- Can be used on all hard surfaces such as floors, walls, windows, porcelain, etc.
- Removes all types of grease, oil, carbon and dirt from surfaces with easy rinsing

Applications:

- Can be used institutions such as shops, schools, recreational centers, sport centers and auditoriums, etc.
- Product can be diluted with water depending on the desired dilution and the type of soil that needs to be removed.
- Can be diluted using a dilution machine (891.030100) and used with a power washer, or by hand.

| Size | Dilution | Dilution (Concentrate:Water) | Art. No. |
|------|--------------|------------------------------|-------------------|
| 1 L | Ready-to-use | | 893.117111 |
| 4 L | Concentrate | 1:50 General Cleaning | 893.117109 |
| | | 1:10 Heavy Cleaning | |
| 20 L | Concentrate | 1:5 Very Heavy Cleaning | 893.117112 |

INDUSTRIAL STRENGTH DEGREASER



Powerful VOC compliant ready-to-use degreaser

- Cuts through stubborn grease, grime and other hard-to-remove soils quickly
- Biodegradable (according to OECD 3028 Modified MITI Test)
- Contains no petroleum, solvents, or acids
- Non-flammable

Application:

Ideal for every cleaning job, including floors, walls, engines, heavy equipments and machinery, tools, bicycles, garden and farm equipment, condenser coils, shop machinery, garage floors, asphalt drives, etc.

| Format | Art. No. | Contents |
|---------------------|-------------------|----------|
| Ready-to-use, spray | 893.474120 | 1 L |
| Ready-to-use, bulk | 893.474121 | 4 L |
| Ready-to-use, bulk | 893.474122 | 20 L |

Tap for 201 Ready-to-Use Bulk:
Art. No. 891.302.03

ECO FOOD & BEVERAGE EQUIPMENT CLEANERS



Biodegradable, NSF certified, foaming cleaner with excellent cleaning properties. Available in both ready-to-use and concentrated formats.

Features and Benefits:

- Powerful, safe and non-corrosive formula
- Completely biodegradable and environmentally friendly formula
- Formula is completely soluble in water
- Carries food safe certification NSF-A3
- Does not release corrosive or harsh fumes
- No VOCs*
- Easy to handle and use
- Can be used with foaming equipment for enhanced foaming mechanism
- Removes stubborn water scale, soap scum, rust stains, grease, mildew and mold

Applications:

- Breweries
- Kitchens
- Washrooms
- Bathroom sinks, tubs and tiles
- Food plants
- Transportation
- Descaling applications

Compatible Surfaces:

- Stainless steel surfaces
- Quarry tiles
- Aluminum surfaces
- Copper surfaces
- Concrete and brick
- Porcelain
- Terrazzo
- Brass surfaces

Physical Properties:

- Appearance - green/liquid
- Odour - fresh
- Dirt penetration - soil suspension properties

| Content | Art. No. | Dilution |
|---------|-------------------|--------------|
| 500 ml | 893.117128 | Ready-to-use |
| 4L | 893.117126 | Concentrate |
| 20L | 893.117127 | Concentrate |

Concentrated product can be diluted up to 1:25 depending on the level of soil that needs to be cleaned.

* VOC's (Volatile Organic Compounds): In addition to contributing to ozone and smog formation, VOC's can have direct adverse effects on human health. Many VOC's have been classified as toxic and carcinogenic and it is therefore unsafe to be exposed to these compounds in large quantities or over extended periods of time.

ECO HEAVY DUTY DEGREASER



Powerful enough to clean the heaviest grease deposits without the need for harsh chemicals

Penetrates and breaks down heavy oil and petroleum deposits

- Highly effective on all heavy petroleum based products such as all oils, greases, waxes, and tars
- Provides a better clean than many conventional toxic products, while being safer for you and the environment

Environmentally Safe

- Safe for all metal and non-metal surfaces
- Free from heavy metals, organic solvent, halogenated compounds and phosphates
- Free rinsing, non-flammable, and no VOCs

Easy-to-use concentrated product

- 1:50 dilution – General cleaning
- 1:10 dilution – Heavy cleaning
- 1:5 dilution – Very heavy cleaning

| Contents | Dilution | Art. No. |
|---------------------|--------------|-------------------|
| 1 L | Ready-to-use | 893.162500 |
| 4 L | Concentrate | 893.162501 |
| 20 L | Concentrate | 893.162502 |
| 210 L | Concentrate | 893.162503 |
| Replacement Sprayer | | 891.502200 |



Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle
Art. No. 891.502200

ECO INDUSTRIAL DEGREASER & MULTI PURPOSE CLEANER



Environmentally friendly all-purpose cleaner & degreaser

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- Completely soluble in water
- Phosphate-free
- A better choice for your health and for the environment

Powerful cleaning

- The most powerful water-based degreaser on the market today
- Saves time through its ready-to-use spray bottle
- Saves money through the use of the concentrate

Safe and easy-to-use

- Free rinsing
- Non-corrosive
- Non-flammable
- pH: 11.5
- Pleasant scent

Areas of Application:

Ideal for every cleaning job including floors, walls, woodwork, maintenance shops, engine shampoo, porcelain, plastic surfaces, light fixtures, venetian blinds, desks, cabinets, stainless steel, maintenance shops, cars and trucks.

| Contents | Dilution | Art. No. |
|----------|--------------|-------------------|
| 1 L | Ready-to-use | 893.47410 |
| 4 L | Concentrate | 893.117103 |
| 20 L | Concentrate | 893.117106 |
| 1 L | Empty bottle | 891.501211 |

| Dilutions for Eco Industrial Degreaser (4 l, Art. No. 893.117103) | |
|---|-------------------------------|
| Application | Dilution (Concentrate: Water) |
| Damp mopping & light cleaning | 1:40 |
| General cleaning | 1:20 |
| Heavy duty cleaning | 1:1 to 10 |
| Same as Ready-to-use format | 1:9 |

SUPER SPRAY DEGREASER



Art. No. 893.164500 20 L

This unique, powerful and biodegradable degreaser cuts heavy grease and soil quickly and effectively.

- VOC (Volatile Organic Compound) compliant
- Non-flammable, non-combustible, highly economical
- Biodegradable, contains NO petroleum or chlorinated solvents, phosphates or acids and is pleasantly scented, unlike most petroleum based degreasers
- Colour: Clear orange

Applications:

Engines - warm or cold, shop and garage floors, farm equipment and shop machinery, condenser and evaporator coils, permanent air filters, gas grills, tools, etc.

ECO MULTI-PURPOSE DISINFECTANT



Environmentally safe cleaner, deodorizer and disinfectant that stops the spread of contamination, contagious germs and micro-organisms.

Disinfects and protects

- Effectively disinfects against most bacteria and viruses including: Salmonella, E. coli, Influenza and H1N1, among other viruses at 10 minutes contact time (as tested and certified by Health Canada)
- Ready-to-use formula has been approved to be effective against human coronavirus as displayed on the label.
- Ready-to-use disinfectant and concentrated disinfectant are different formulas as represented by the different DIN numbers.
- Ready-to-use disinfectant appears in Health Canada's list of approved products as being effective against COVID-19.

Features:

- Kills 99.9% of germs
- Sanitizes all inanimate surfaces
- Won't streak or leave behind sticky residues

Applications:

- Industrial, Institutional and Food Plants
- Health Care Facilities and Dental offices

CONCENTRATED PRODUCT - DILUTION RATIO 1:64 OR 16ML OF CONCENTRATED PRODUCT PER LITER OF WATER

| Contents | Art. No. | Product Version |
|----------|-------------------|-----------------|
| 1L | 893.139611 | Ready to use |
| 4L | 893.139612 | |
| 20L | 893.139613 | |
| 4L | 893.139614 | Concentrate |

| Art. N. | Product Name | DIN Number | Concentrate | RTU | Certified against COVID-19 |
|-------------------|---|------------|-------------|-----|----------------------------|
| 893.139611 | ECO MULTI-PURPOSE DISINFECTANT SPRAY 1L RTU | 02475251 | - | Yes | Yes |
| 893.139612 | ECO MULTI-PURPOSE DISINFECTANT SPRAY 4L RTU | 02475251 | - | Yes | Yes |
| 893.139613 | ECO MULTI-PURPOSE DISINFECTANT SPRAY 20L RTU | 02475251 | - | Yes | Yes |
| 893.139614 | ECO MULTI-PURPOSE DISINFECTANT 4L CONCENTRATE | 02475243 | Yes | - | No |

ECO HEAVY MACHINERY WASH



Specially formulated to handle the toughest cleaning challenges in the oil industry

Designed for oil industry applications

- Ideal for long-haul rigs, oil rigs, on and off-shore drilling rigs and heavy equipment
- Can be used for continued maintenance of platforms, decks, derricks, racks, liners, drills, bits, and rods
- On-site usage eliminates the cost of dismantling equipment, or sending it off-site for cleaning

Highly effective and biodegradable

- Can be used for chemical cleaning of all hydrocarbon and crude oil products
- Safe on all ferrous and non-ferrous metals

Easy-to-use concentrated product

- Concentrated product can be diluted with fresh water or sea water
 - 1:20 dilution - Light cleaning
 - 1:10 dilution - Heavy cleaning

Note: Dilution rates may vary depending on the job

| Contents | Dilution | Art. No. |
|----------|-------------|-------------------|
| 4 L | Concentrate | 890.109004 |
| 20 L | Concentrate | 890.109020 |

ECO PARTS WASH



A safe and efficient alternative to using toxic solvents for parts washing. No system changeover needed, can be added to any wash basin.

Effective alternative to solvent-based solutions

- Can be used for difficult cleaning applications in any existing parts washer system
- Contains corrosion inhibitors
- Does not require a heated parts washer system
- Excellent for removing all types of shop oils, greases, and oil-based fluids

Added safety of a water-based cleaner

- No environmental risks: Completely biodegradable, VOC & halogen free
- Safer working environments: Non-toxic, non-corrosive, non-flammable, and non-combustible
- Safe handling and storage: No ventilation hood required, and no solvent cabinet needed

Easy-to-use concentrated product

- 1:10 dilution - Light cleaning
- 1:4 dilution - Heavy cleaning

Note: Dilution rates may vary depending on the job

| Contents | Dilution | Art. No. |
|----------|-------------|-------------------|
| 4 L | Concentrate | 893.162700 |
| 20 L | Concentrate | 893.162701 |
| 210 L | Concentrate | 893.162702 |

ACTIVE CLEAN



Art. No. 893.472 500 g

Fruit scented intensive foam cleaner for vehicle interiors.

Perfect for plastic surfaces, vinyl, cloth, leather, and carpets.

Micro-fine active foam (vacuum effect)

- Foam remains on the surface and actively extracts the dirt by the action of foam bubbles bursting
- Outstanding dirt dissolving power
- No soaking of upholstery, thus no long drying times
- Perfect for cleaning salt stains on carpets

Gentle on material

- Suitable for all materials in the vehicle interior. The dashboard break-off points of the (passenger) air bags are not affected

20-fold yield

- 500 mL Aktiv-Clean is equal to the yield of more than 10 litres of liquid cleaner
- Economical

Does not contain phosphate or organic solvents. AOX-free.

Potential danger of daily use is reduced

- Environmentally friendly
- Meets local waste water regulations
- No hazardous substance identification required

Quickly separates in waste water according to ecological standard test B 5105

Biodegradability >95%

pH-value: 8.2

Silicone free

Note: Spray Aktiv-Clean onto a clean, dry cloth and wipe the surfaces to be treated. Then treat plastic parts with Cockpit Care (**Art. No. 893.4731**). On textile surfaces and upholstery, allow foam to soak in briefly and remove any dirt with a brush or sponge. Treat stains from the edge towards the centre. Afterwards vacuum upholstery. Protect against frost.

PLASTIC CARE



Art. No. 893.4731 500 mL

Fruit scented interior care for synthetic surfaces

High-quality Carnauba waxes, in combination with Jojoba oil, provide optimum care

- Freshens up colours and leaves a silky-smooth gloss
- Synthetic materials remain elastic - prevents creaking and squeaking noises
- Provides a well-cared for appearance

Gentle formulation

- The dashboard break-off points of the (passenger) air bags are not affected

Lasting protection against the effects of pollution

- Protects against aging and brittleness
- Prevents bleaching of cockpit surfaces

Anti-static

- Eliminates the need to constantly dust

Does not contain phosphate or organic solvents. AOX-free.

Potential danger of daily use is reduced

- Environmentally friendly
- Meets local waste water regulations
- No hazardous substance identification required

Quickly separates in waste water according to ecological standard test B 5105

Biodegradability >95%

pH value: 8.2

Silicone free

Note: Preliminary cleaning with Active-Clean (**Art. No. 893.472**) is recommended. Spray Cockpit Care onto a clean, dry cloth and apply to the surfaces to be treated. Protect against frost.

DASHBOARD CLEANER



Art. No. 890.2221 288 g

For cleaning and caring for the interior of passenger cars, commercial vehicles and buses. For dashboards, door linings, plastics and rubber mats.

Excellent cleaning power and gentle care in a single operation

- Less time required for treating the interior of the vehicle
- Universally applicable for all plastic parts in vehicle interiors

Ideal caring properties

- Revives colours
- Leaves behind a silky, matte shine

Has anti-static properties

Prevents the accumulation of dust

Minimal spray mist

- Simple and targeted use
- User-friendly application

Citrus-fresh fragrance

Silicone-free

AOX-free

Application:

Spray directly onto the surface to be cleaned from a distance of approx. 20 cm then wipe off using a clean, dry cloth.

Note: Do not spray onto the windscreen or side windows. Ventilate the vehicle interior for a short time following application.

ECO TEXTILE CLEANER



An activated oxygen cleaner

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- Completely soluble in water
- A better choice for your health and for the environment

Non-hazardous

- Made from the world's safest all-natural sanitizer and germicide - hydrogen peroxide
- When it contacts organic material, it breaks down into oxygen and water
- Colour-safe bleaching
- Contains hydrogen peroxide, surfactants and natural degreasing agents

Effective

- Fresh citrus scent
- Eliminates odours
- Highly effective at cleaning grease, mildew, mold and in the cleaning of light corrosion and organic stains such as coffee, wine, juice, blood and pet stains

Areas of Application:

- Effectively removes stains on car and truck cloth seats, carpets, clothes, etc.
- Eliminates stubborn and strong odours on fabric and upholstery
- Excellent cleaning product for schools, hospitals, casinos, restaurants, hotels, etc.

| Contents | Art. No. |
|----------|-------------------------|
| 1 L | 893.117120 |
| 4 L | 893.117121 |
| 1 L | 891.501210 Empty |

| Dilutions | |
|-----------------|---|
| Formulation | Dilution |
| 1 L Spray | Ready-to-use formula |
| 4 L Concentrate | Dilute 1 part concentrate with 10 parts water |
| Heavy Stains | Spray at a dilution of 1:5 |



Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle Art. No. 891.502200

VINYL AND UPHOLSTERY CLEANER



Art. No. 893.033 450 g

Considerably improves the unsightly appearance of seats, vinyl dashboards, trim, roofs and carpet caused by excessive use, the elements, spills, road dirt and grime, and pollution

- Removes dirt from vinyl surfaces, including seats and vinyl trim, to restore vinyl sheen
- Leaves a protective coating that will help repel dirt and grime
- Also useful as a spot remover on vinyl, cloth, leather surfaces and carpet
- Silicone-free

LEATHER CARE



Art. No. 893.012901 500 mL

Cares for all varieties of leather and leaves behind an attractive, visual shine.

Features & Benefits:

- Cleans and provides lasting care and preservation of the surface texture of all leathers
- Use regularly to keep leather soft and supple, preventing brittleness and tearing
- Contains specially selected waxes and silicones for all kinds of smooth leather

Application

- Apply thinly, leave to dry for 20 minutes and polish with a soft brush or cloth.

QUICK-FRESH



Excellent for removing odours and returning a fresh air smell to vehicle air conditioning systems

- Specially formulated to handle the problems associated with moisture accumulation
- The powerful fragrance and odour counteractant system does not just cover up offensive odours, but effectively eliminates them at the source
- Excellent for cars, trucks, RVs, boats, etc.
- Suitable to refreshen smoked-in vehicles, older cars, trucks
- Ideal for mildew and mould smell removal
- Pocket size

Note: Occupants should remain outside the vehicle during application!



Quick Fresh P.O.P Display
Art. No. 008.QF

| Description | Contents | Art. No. |
|---------------|----------|-------------------|
| New Car Scent | 113 g | 893.764531 |
| Linen Scent | | 893.764527 |

RUBBER CARE STICK



Art. No. 893.0128 75 mL

Silicone-free care for rubber seals. Prevents door rubbers from freezing in winter.

Features:

- Silicone-free
- Resistant to splash and salt water
- Biologically degradable
- Resistant to diluted acids and alkaline
- Water repellent

Effect:

Keeps rubber seals on doors, trunks and hoods in good condition and prevents freezing in winter

Result:

The resilience of all rubber parts is maintained, increasing service life and preventing cracking. Freezing and drying in winter are effectively prevented. Eliminates squealing and creaking noises caused by dry rubber.

RUBBER CARE



Art. No. 890.110 189 g

- Keeps rubber parts supple
- Protects against adhesion of rubber due to age and heat of rubber seals on doors, trunks and hoods
- Freshens up colour
- Will not damage paint or chrome parts
- Suitable for car tires, rubber mats, pedals, rubber parts of bumpers
- Silicone-free

PLAST-PT®



For visual improvement of vehicle plastic parts

- Solvent free
- Dispersion-based high-quality plastic dye
- Restores faded plastic to original condition
- Easy application
- Can be applied in direct sunlight

Areas of Application:

Bumpers, synthetic leather roofs, folding roofs (including cloth), interior plastic panels, rubber parts, water pipes, running boards, etc.

Note: Plastic Dye is humidity sensitive during application; therefore, ensure part to be treated is dry before application and remains dry until dye is cured. Do not store or apply at temperatures below +7°C (+44 °F).

| Colour | Contents | Art. No. |
|--------|----------|-----------------|
| Black | 75 mL | 893.2801 |

UNIVERSAL TRIM PROTECTION



Renews and protects all exterior vehicle trim

Features:

The special formula protects and instantly renews the aspect of your vehicle's trim, moulding and bumper. Surfaces look new again and will be protected against fading, oxidation and deterioration due to weather, salt, and road film. Perfect for use on vinyl, rubber and plastic surfaces. Works incredibly well on smooth and textured surfaces. Surfaces do not need to be black to obtain superior results.

Areas of Application:

- All vehicle trim, plastic side steps, plastic bumpers; can also be used as an engine dressing for plastic engine parts.

Note: This product contains silicone and is not bodyshop-safe.

Recommended:

Tap for the 20 L pail **Art. No. 891.302.03**

| Contents | Art. No. |
|----------|-------------------|
| 500 mL | 893.477500 |
| 20 L | 893.477020 |

RAPID WINDSHIELD CLEANER



Art. No. 892.333 32 mL

Highly concentrated windshield cleaner 1:100

Contains special cleaning substances

- Prevents streaking
- Removes reflective and lubricating films
- Ensures a crystal-clear view
- Removes stuck-on insects and other soiling

Very good material compatibility

- Polycarbonate glass is not attacked
- Gentle on paint and rubber

User-friendly 1:100 concentrate

- 32 mL makes 2.5 - 3 l washer fluid
- For cars with up to 3 l wash volume

Pleasant peach scent

WINDSHIELD WASHER FLUID CONCENTRATE



Art. No. 892.332189 18.9 L

Window cleaner with antifreeze for the windshield washer system.

Improved frost protection

Reliably and effectively prevents freezing of window and headlight washer system

Outstanding, improved cleaning performance

Crystal-clear vision with winter dirt such as road salt film and oily road dirt

Easy-to-clean effect

- The even, thin wetting of the window enables easy cleaning
- Lasting cleaning, as dirt then cannot adhere as quickly

When these recommended dilution ratios are followed the resultant fluid products will meet or exceed the federal specifications outlined by the National Standard of Canada, specifically Canadian General Standards Board (CGSB) publications CAN2-3.532-M85, titled Antifreeze, Windshield Washer, Methanol

Note: Do not use full strength! Always dilute with water!

| Dilution Ratios | | |
|-----------------|---|-------------------------------------|
| Parts Water | Parts Windshield Washer Fluid Concentrate | Typical Freeze Protection (°C / °F) |
| 1 | 1 | -40 °C / -40 °F |
| 3 | 2 | -35 °C / -31 °F |
| 2 | 1 | -27 °C / -17 °F |
| 3 | 1 | -18 °C / 0 °F |
| 4 | 1 | -12 °C / 10 °F |
| 5 | 1 | -8 °C / 18 °F |

WINDSHIELD WASHER TABLETS



Mix Ratios:

Normal Use - dissolve 1 tablet per 1 gallon of water. (3.78L)
Bulk Glass Cleaner - dissolve 1 tablet per 3 litres of water.

Applications:

Automotive, Commercial and Fleet uses.



Art. No. 892.3344 25 x 1 g

Each super concentrated tablet will give you up to a gallon of unbelievable cleaning power!

- Triples cleaning power. Completely removes bugs, road film, dirt and grime.
- One super-concentrated tablet makes 1 gallon (3.78L) of windshield cleaner.
- Easy to use. Just add one tablet to 1 gallon (3.78L) of water.
- Winter conditions: Anti-freeze type windshield solvents are poor cleaners. For triple cleaning power with any anti-freeze windshield solvent, add one tablet. (This product WILL freeze when NOT used with an anti-freeze type windshield washer fluid in areas with freezing temperatures.)
- Safe for rubber and paint.
- Würth Instant Windshield Washer Tablets are non-toxic and biodegradable.
- Keep millions of plastic containers out of landfills and from having to be recycled.
- Contains 25 super concentrated tablets

EMPTY DISPENSING BOTTLE FOR POLISHES



Art. No. 891.406800 500 mL

POLISHING PAD CLEANING BRUSH



Art. No. 585.241 250 mm

Cleaning brush for the cleaning of polishing sponges, polishing pads and lambskins

Ideal for cleaning Top Wool Pad
Art. No. 585.300100

POLISHING PUCK



Ergonomically designed for a professional manual application of waxes or dressings.

Advantages:

- The soft premium foam allows a thin and even distribution of the sealant on the surface
- Polish like a Pro - but without the costly polishing machine

| Colour | Firmness | Application | Diameter | Art. No. | P. Qty |
|--------|----------|-----------------------|--------------|-------------------|--------|
| Orange | Hard | Waxing | 5.1" (130mm) | 585.300125 | 1 |
| Black | Soft | Dressing and Cleaning | 4.9" (125mm) | 585.301253 | 1 |

CLAY POLISHING SERIES



Clay polishing series for removing surface soils and build-up on vehicle body-works

- Easily removes surface residue and dirt on painted substrates that cannot be removed by conventional cleaning and creates a mirror-like finish
- Particularly gentle in cleaning power due to the absence of aggressive cleaning agents and low heat generation
- Saves time, energy and the cost of application
- Works on residues such as paint spray, resin, tar, insect residue, and on new and used vehicle body paint

Features:

- Washable and reusable
- Easy to use and simple application

Application:

- Rinse the surface with water or pH neutral shampoo before starting the cleaning process with the clay polishing article
- The rinsed surface can then be treated with the clay polishing article making sure that the it and the surface are sprayed with water to maintain moisture on both substrates
- After cleaning, the remaining residue can easily be removed with a micro-fiber cloth before polishing or sealing the surface
- Can be used on lacquered surfaces, glass and chrome among other substrates
- Recommended initial testing in an inconspicuous area to test for substrate compatibility and to acquire optimal results

| Description | Colour | Length | Width | Art. No. | P. Qty. |
|-----------------------|-----------|-----------------|--------|------------|---------|
| Clay Polishing Sponge | Red/Black | 110 mm | 70 mm | 585.300110 | 1 |
| Clay Polishing Mitt | | 210 mm | 140 mm | 585.300210 | |
| Clay Polishing Pad | | 150 mm Diameter | | 585.300150 | |



WÜRTH ZEBRA FINISH

Art. No. 893.99100 473 mL

Contains an optical brightener, to give your car a "Show Room" shine!

- Its unique properties were designed to provide a safe and effective luster to prevent any swirls and scratches and leaving a high gloss look
- Perfect for removing all residue after buffing
- It allows washing without water, retrieving the natural finish on "Show Room" cars and other refinished vehicles
- Zebra Finish may be used safely on all paint finishes, chrome, wood veneer, trim and plastic parts

CLAY BAR

Art. No. 893.1571 210 g

Synthetic clay bar used for the removal of paint spray mist and soil buildup.

Features:

- Contains synthetic polymers without abrasives
- Solvent and chemical free

Benefits:

- Gentle particle removal without grinding or repolishing
- Deep cleaning of all smooth surfaces
- Stays soft, does not become brittle
- Safe for use on paints and delicate surfaces

Areas of application:

- Removal of paint spray mist and resin, tar and insect remains, especially in the detailing of new and used vehicles



POLISH START-UP KIT - BODYSHOPS



Art. No. 008.POLISH10

| Description | Contents | Art. No. |
|--|----------|-------------------|
| Würth Canvas Bag with logo | 1 pcs. | 715.93610 |
| P10 Fast Grinding Polish Plus | 1 kg | 893.150910 |
| P30 Anti-Hologram Polish Plus | 1 kg | 893.150930 |
| Spider Polishing Pad (7.5"/190 mm) | 1 pcs. | 585.307100 |
| Soft Foam Pad (7.5"/190 mm) | 1 pcs. | 585.305100 |
| Large Ultrasoft Microfiber Cloth, Grey (40 cm x 40 cm) | 1 pcs. | 899.900108 |

POLISH START-UP KIT FOR DETAILING SHOPS



Art. No. 008.POLISH55

| Description | Contents | Art. No. |
|--|----------|-------------------|
| Würth Canvas Bag with logo | 1 pcs. | 715.93610 |
| P55 Combination Polish Plus | 1 kg | 893.150955 |
| P30 Anti-Hologram Polish Plus | 1 kg | 893.150930 |
| Spider Polishing Pad (7.5"/190 mm) | 1 pcs. | 585.307100 |
| Soft Foam Pad (7.5"/190 mm) | 1 pcs. | 585.305100 |
| Large Ultrasoft Microfiber Cloth, Grey (40 cm x 40 cm) | 1 pcs. | 899.900108 |

PINK WAX



Art. No. 893.01901 1 kg

Suitable for:

- Pink Wax is a high-gloss premium paint sealant for the fast and efficient conservation of car paints.

Properties:

- The Intelligent Powder Technology (IPT) combined with the natural carnauba wax, synthetic waxes and highly cross-linked polymers provide durable protection against the elements and ensure a rich durable gloss.
- Fine wax particles embed within the micro-crevices of the painted surface, creating a glass like finish and a brilliant depth of color.

- Easy application and removal even on hot paint surfaces without streaking.
- Leaves no microscratches behind in comparison to many waxes and sealants.

Recommended:

Polishing Puck Art. No. 585.300125
Ultra Soft Microfiber Cloth Art. No. 899.900108

Note:

The best way to apply the pink wax is manually with the polishing puck.

P10 PLUS CUTTING COMPOUND (1.2L)



Art. No. 893.150910

A high abrasive high-gloss polish for quick removal of defects in fresh repair and hardened top coats. The formula carries the unique powder properties made of aluminum oxide.

Features:

- Carries the Intelligent Powder Technology (IPT) that can correct imperfections in both scratch-resistant and traditional paints
- Treating a surface with P10 Plus will bring out an unmatched gloss level due to its P1500 abrasive grain (alumina)
- Can be used on old and new painted surfaces
- Free of silicone
- Can be applied and processed both manually and by machine
- Easy application with minimal clean up involved
- Economical in consumption

Applications:

- Shake the container well before use
- Wet the surfaces of the selected polishing wheel evenly with the paste and apply a small amount to the surface to be processed
- Place the polishing pad (Art numbers; 585.025090/585.025170/585.025195) on the spot and start the polisher
- Work on the surface with a pressure at 1000 to 1500rpm
- Using steady pressure, work the pad over the polishing surface until all swirl marks and paint imperfections are removed
- Carry out the same application method for surface sections
- Finally remove all residue with a microfiber cloth



In combination with the spider pad, the P10 can be used for headlight restoration.



In combination with the polishing puck, the P10 can help remove nail scratches in the door handle area.



For a extra heavy cut, we recommend to use the P10 with the wool pad.



For a heavy cut and a high gloss in one step, we recommend to use the P10 with the spider pad.

Polishing Pad

Recommendations:

- 585.025090 - PERFECTION POLISHING PAD GREEN 90X20mm
- 585.025170 - PERFECTION POLISHING PAD GREEN 170X25mm
- 585.025195 - PERFECTION POLISHING PAD GREEN 195X25mm
- 585.307100 - Spider Pad
- 585.300100 - Top Wool pad

* Applications can be carried out with Perfection Line Green Polishing Pad too.

PERFECTION POLISHING PAD GREEN



Polishing pads designed for the Perfection line polishes with three different levels of abrasiveness.

Extra hard polishing pads for maximum removal of surface coating imperfections with minimal heat generation.

Features:

- Maximized effective force with minimal wear of the surfaces. The special calibration of the polishing pad surfaces increased the work life of the product significantly. This enables higher absorption of the polish, which results in higher stock removal rate and a longer productivity of the polishing abrasive
- Open pored, tear-resistant foam for a consistent removal rate and maximum service life. Due to the open pores and the crisscross patterned opening on the surface, heat generated during polishing is perfectly dissipated
- Improved flexibility to polish differently shaped surfaces and curvature while preventing new paint irritations
- User-friendly design of the polishing pads for efficient work

| Description | Art. No. | Size |
|-----------------------------|------------|------------|
| Perfect Polishing Pad Green | 585.025090 | 90 x 20 mm |
| | 585.025170 | 170 x 25mm |
| | 585.025195 | 195 x 25mm |

Use with Perfection Line P10 Plus - 893.150910

P30 PLUS ANTI-HOLOGRAM POLISH (990ML)



Art. No. 893.150930

A medium cut, high-gloss finish polish for the permanent removal of haze and holograms from dark vehicle paintwork. The formula carries the unique powder properties made of aluminum oxide.

Features:

- Carries the Intelligent Powder Technology (IPT) that can permanently remove hazes, swirls and holograms on dark vehicle paintwork
- Unique powder properties of the aluminum oxide results in a mirror like finish of the coating
- Can be used on old and new painted surfaces
- Free of silicone
- Can be applied and processed both manually and by machine
- Easy application with minimal clean up involved
- Economical in consumption

Applications:

- Shake the container well before use
- Clean the paint surface prior to treatment
- Wet the surfaces of the selected polishing wheel evenly with the paste and apply a small amount to the surface to be processed
- Apply polish evenly to the target surface with a soft polishing cloth or polishing sponge using circular movements
- For light scratches, use with the orange Perfection polishing pads (Art numbers; 585.026090, 585.026170, 585.026195)
- To remove holograms and swirl marks, use with the soft foam pad (Art number; 585.305100)
- Position the polishing pad flat on the surface and start the polisher at a speed of 1000 to 15000 rpm
- Using steady pressure, work the pad over the polishing surface until all swirl marks and imperfections are removed
- Carry out the same application method for surface sections
- Finally remove all residue with a microfiber cloth

Polishing Pad Recommendations:

- 585.026090 - PERFECTION POLISHING PAD ORANGE 90X20mm
- 585.026170 - PERFECTION POLISHING PAD ORANGE 170X25mm
- 585.026195 - PERFECTION POLISHING PAD ORANGE 195X25mm
- 585.305100 - Black soft pad

PERFECTION POLISHING PAD ORANGE



Polishing pads designed for the Perfection line polishes with three different levels of abrasiveness.

Soft polishing pads for perfect finish or sealing of the polish work. It supports in the easy removal of veils and holograms from the paint works.

Features:

- Maximized effective force with minimal wear of the surfaces. The special calibration of the polishing pad surfaces increased the work life of the product significantly. This enables higher absorption of the polish, which results in higher stock removal rate and a longer productivity of the polishing abrasive
- Open pored, tear-resistant foam for a consistent removal rate and maximum service life. Due to the open pores and the crisscross patterned opening on the surface, heat generated during polishing is perfectly dissipated
- Improved flexibility to polish differently shaped surfaces and curvature while preventing new paint irritations
- User-friendly design of the polishing pads for efficient work

| Description | Art. No. | Size |
|------------------------------|-------------------|------------|
| Perfect Polishing Pad Orange | 585.026090 | 90 x 20 mm |
| | 585.026170 | 170 x 25mm |
| | 585.026195 | 195 x 25mm |

Use with Perfection line P30 Plus – 893.150930

P55 PLUS UNIVERSAL POLISH (1050ML)



Art. No. 893.150955

A moderate cut polish with a high level of gloss when polishes out. Treats and seals paintwork in only one working step. Leaves an intense shine and forms a long lasting protective layer against environmental influences. The formula carries the unique powder properties made of aluminum oxide.

Features:

- Carries the Intelligent Powder Technology (iPT) that can remove mechanical car wash scratches and other imperfections from paint
- Unique powder properties of the aluminum oxide results in a mirror like finish of the coating
- Can be used on old and new painted surfaces
- Recommended for any paint type with the exception of matte finishes
- Free of silicone
- Can be applied and processed both manually and by machine
- Easy application with minimal clean up involved
- Economical in consumption

Applications:

- Shake the container well before use
- Clean the paint surface prior to treatment
- Wet the surfaces of the selected polishing wheel evenly with the paste and apply a small amount to the surface to be processed
- Apply polish evenly to the target surface with a soft polishing cloth or polishing sponge using circular movements
- For light to medium scratches, use the blue perfection polishing pads (Art numbers; 585.027090, 585.027170, 585.027195)
- For deep scratches, use the top wool pad (Art number; 585.300100)
- Position the polishing pad flat on the surface and start the polisher at a speed of 1000 to 15000 rpm
- Using steady pressure, work the pad over the polishing surface until all swirl marks and imperfections are removed
- Carry out the same application method for surface sections
- Finally remove all residue with a microfiber cloth

Polishing Pad Recommendations:

- 585.027090 - PERFECTION POLISHING PAD BLUE 90X20mm
- 585.027170 - PERFECTION POLISHING PAD BLUE 170X25mm
- 585.027195 - PERFECTION POLISHING PAD BLUE 195X25mm
- 585.300100 - Top wool pad
- 585.3070100 - Spider pad

PERFECTION POLISHING PAD BLUE



Polishing pads designed for the Perfection line polishes with three different levels of abrasiveness.

Medium-strength polishing pad for efficient paint preparation and removal of fine sanding marks on dark paintwork.

Features:

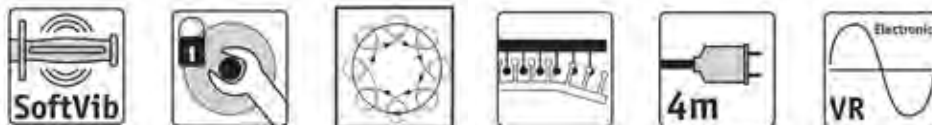
- Maximized effective force with minimal wear of the surfaces. The special calibration of the polishing pad surfaces increased the work life of the product significantly. This enables higher absorption of the polish, which results in higher stock removal rate and a longer productivity of the polishing abrasive
- Open pored, tear-resistant foam for a consistent removal rate and maximum service life. Due to the open pores and the crisscross patterned opening on the surface, heat generated during polishing is perfectly dissipated
- Improved flexibility to polish differently shaped surfaces and curvature while preventing new paint irritations
- User-friendly design of the polishing pads for efficient work

| Description | Art. No. | Size |
|----------------------------|-------------------|------------|
| Perfect Polishing Pad Blue | 585.027090 | 90 x 20 mm |
| | 585.027170 | 170 x 25mm |
| | 585.027195 | 195 x 25mm |

Use with Perfection line P55 Plus Universal polish - 893.150955

POSITIVE-DRIVE ORBITAL POLISHER MACHINE

Art. No. 702.990120 - P. Qty. 1



| SPECIFICATIONS | |
|---------------------------|---------------|
| Max. back-up pad diameter | 7" |
| Velcro pad | 5.5" |
| Speed without load | 160-480 rpm |
| Orbit | 5/16" |
| Orbit rate, without load | 3200-9600 rpm |
| Power input | 10.9 amp |
| Power output | 590 watt |
| Weight | 5.7 lbs |

| Speed without load | RPM |
|--------------------|---------|
| 1 | 160/min |
| 2 | 210/min |
| 3 | 270/min |
| 4 | 330/min |
| 5 | 400/min |
| 6 | 480/min |



Recommended:
7" Backing Pad
Prefix: 585.30...



Compact and high-performance motor. Ideally suited for hologram-free polishing.

Features:

- Compact & ergonomic
- Low weight for easy handling
- Low noise emissions
- Extremely smooth running with equalising weight
- VR microprocessor control: with tachogenerator constant speed control, soft start, continuous speed control trigger, restart protection after power failure, over-load protection, temperature monitoring and speed selection
- A tachometer generator ensures that the speed remains constant, even under loads
- Continuously adjustable speed
- Speed pre-selection for easily adjusted polishing speed
- 5/16" orbit for high efficiency
- Straightforward attachment of polishing pad
- Fatigue-free and comfortable work
- Spindle lock
- High level of user safety and motor protection
- Soft start for slow, careful start of the machine without jerking or spraying polish
- Prevents unintentional start-ups after power cuts.
- Overload protection - Increases the machine's service life
- Temperature monitoring
- Ideal for heat-sensitive finishes
- Low surface heat generation
- 10' power cord
- 1 Year Warranty on manufacturing and material defects (Flex Warranty)
- Excluded are damages caused by improper use, overloading or failure to observe the operating instructions
- Backing pad not included

Applications:

- Vehicle detailing
- Hologram-free polishing of paintwork damage and sealing of paintwork thanks to eccentric movements and large stroke
- Removal of existing holograms and polishing smears, including on dark paintwork
- Ideally suited to removing damage from weathered paintwork with minor scratches, traces of use, smears, hairline cracks and for high-gloss polishing

3" AIR COMPOSITE POLISHING KIT WITH PADS



Art. No. 703.999012K

A high quality, ergonomically designed, lightweight and compact mini polisher made out of a durable composite material. Perfect for polishing hard to reach areas and headlights.

Features:

- Compact lightweight tool permits polishing in hard to reach areas
- Ergonomically designed pistol grip handle provides extra control of movement and user comfort
- Composite body is durable and helps resist chemicals
- Blow molded case for easy storage and transport

Kit includes:

- 3" Air Composite Polisher
- 3" Hook & Loop Backing Pad
- 3" Top Wool Pad - White (Art. No. 585.2485)
- 3" Spider Pad - White (Art. No. 585.2985)
- 3" Soft Foam Pad - Black (Art. No. 585.3085)
- Spanner Wrench

Technical Information

| | |
|----------------------|-------------------|
| Spindle size | 5/16 po-24T |
| Free Speed | 2100 RPM |
| Air Hose I.D. Size | 3/8" (10mm) |
| Air Pressure | 90-120 psi |
| Avg. Air Consumption | 3.5 cfm |
| Length | 135 mm (5.3") |
| Net Weight | 0.77 kg (1.7 lbs) |



Recommended:

3" Backing Pad Art. No. 703.999112

TOP WOOL PAD



Top Wool Pads are made of twisted wool (100% wool); each strand of high grade wool fibre is tightly twisted. This allows our pad to stay at a consistent level of aggression for longer periods of operation. Thanks to the quicker and long-lasting cutting performance working with our Top Wool Pads guarantees a very efficient and time saving way of polishing.

After each use clean with Polishing Pad Cleaning Brush Art. No. 585.241

| Description | Diameter (in) | Diameter (mm) | Art. No. | P. Qty. |
|--------------|---------------|---------------|-------------------|---------|
| Top Wool Pad | 3" | 85mm | 585.2485 | 5 |
| | 7" | 195mm | 585.300100 | 1 |

SPIDER PAD



Its calibrated three-dimensional surface results in increased surface contact, a higher cut and better efficiency of abrasive particles. Polishing can be done more directly and with higher pressure and the cutting performance is absolutely consistent during the whole application

Calibrated Surface:

- Increased surface Contact
- Higher cutting rate and more spreading distance of the abrasive particles

In addition, the open foam surface results in a higher air circulation while polishing:

- Less heat is generated on the paint surface
- Higher rotational speeds are possible and a significant reduction in the polishing time

| Description | Diameter (in) | Diameter (mm) | Art. No. | P. Qty. |
|-------------|---------------|---------------|-------------------|---------|
| Spider Pad | 3" | 85mm | 585.2985 | 5 |
| | 7" | 190mm | 585.307100 | 1 |

BLACK SOFT FOAM PAD



The Black Soft Foam Pad was especially designed for the finishing process of polishing. Thanks to the product features, holograms and micro scratches can be removed safely and efficiently.

| Description | Diameter (in) | Diameter (mm) | Art. No. | P. Qty. |
|---------------------|---------------|---------------|------------|---------|
| Black Soft Foam Pad | 3" | 85mm | 585.3085 | 5 |
| | 7" | 190mm | 585.305100 | 1 |

PREMIUM LIQUID WAX



Art. No. 893.01903 500 mL

Polymer-based speed wax that creates a perfect finish in seconds. Used in almost all smooth surfaces including paint, plastics, glass, rims and more

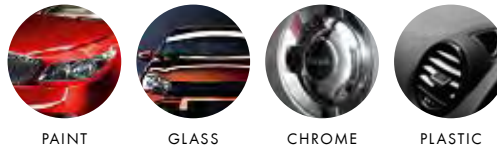
Features:

- State-of-the-art polymer technology
- Cleaners and glass enhancers that work in harmony
- No Silicone and non-abrasive
- Hydrocarbon free

Benefits:

- Brilliant mirror-like gloss in seconds on all smooth surfaces
- No Polishing needed: just spray-on; evenly distribute; and done!
- Lasting elimination of micro-scratches
- Durable sealing persists for weeks

GREAT FOR



PAINT

GLASS

CHROME

PLASTIC

Recommended:

Microfiber Cloth - Art. No. 899.900107

WASH & WAX CONCENTRATE



A super concentrated liquid Wash & Wax formulated to quickly and efficiently clean all finishes without scratching.

Features:

The Würth Wash & Wax has a unique foaming action that helps detach the dirt and road film from the surface of the vehicle. The foaming action combined with the wax lubricate the surface to help prevent unwanted scratches.

The water-based formula and balanced pH make the product safe for all types of surfaces including paint, chrome, glass, rubber, plastic and vinyl. Contains wax that intensifies shine and increases beading action. Bodyshop safe, VOC compliant and phosphate free.

Recommended: Tap for the 20L pail Art. No. 891.302.03

Note: Do not wash vehicle in direct sunlight. Mix as directed. Over concentration can lead to unwanted streaking.

| Contents | Art. No. |
|----------|------------|
| 4 L | 893.010004 |
| 20 L | 893.010020 |

ECO CAR WASH ULTRA CONCENTRATED



Environmentally-friendly light vehicle wash and road film remover.

Features:

- EcoLogo certified & completely biodegradable.
- VOC and phosphate free
- Highly concentrated and effective
- Removes stubborn film, exhaust deposits, and bug residues on cars
- Breaks magnetized bond attaching dirt to surfaces
- Non-streaking

Benefits:

- High concentration saves you time and energy
- Water sheets off to minimize spotting and dry time, leaving a streak-free shine

Areas of Application:

Ideal for cleaning cars, SUVs, motorcycles, and any other types of light vehicles.

| Contents | Art. No. |
|----------|-------------------|
| 4 L | 893.030104 |
| 20 L | 893.030120 |
| 210 L | 893.030122 |

ECO CARGO WASH ULTRA CONCENTRATED



Environmentally-friendly heavy duty vehicle wash and road film remover. Eco Cargo Wash breaks the magnetized bond holding dirt to the surface.

Features:

- EcoLogo certified & completely biodegradable.
- VOC and phosphate free

- Powerful washing and quick cleaning
- Removes stubborn film, exhaust deposits, and bug residues on truck cabs and trailers
- Breaks magnetized bond attaching dirt to surfaces

Benefits:

Powerful washing and quick cleaning saves you time and energy

| Contents | Art. No. |
|----------|-------------------|
| 4 L | 893.030114 |
| 20 L | 893.030130 |
| 210 L | 893.030132 |

CARGO BASIC CLEANER



Art. No. 893.036030 30L

Alkaline foam cleaner for basic cleaning of commercial vehicles and chassis showing high degree of soiling.

30L pail can be disposed off through the Recycling system
No problems regarding disposal!

No troublesome pre-mixing by using the foaming unit, mixing the cleaner with a guaranteed optimum mixing ratio of 1:30 (not the conventional 1:10 ratio)
Saving time and material by accurate mixture!

High washing power at short reaction time of max. 5 minutes

Saving time needed for cleaning, i.e. the vehicle can be put on the road again quicker!

pH- value: 13.2



Tap for Cargo Basic Cleaner
- Art. No. **997.225191**

ECO BOAT AND SHIP WASH



Boat and ship cleaning solution with new surfactant technology that provides incredible wash and rinse-free results.

Features and Benefits:

- Easily removes dirt, grease, oil, lime scale, algae residue, mineral deposits, and road film that is magnetically bonded and is completely compatible with clear coat treated surfaces.
- This product carries a unique sudsing profile that prevents residual buildup of detergent.
- It also rinses off with no beading of water left behind that will cause spotting.
- Dries fast and leaves no hazy after-film.
- Can be diluted up to 150:1 depending on the level of soiling that needs removing.

Applications:

Safe to be used on all surfaces such as fiberglass, vinyl, metal, glass, plastic, rubber and painted surfaces.

Washing can be done by hand, by power wash, or deck brush.

| Size | Version | Art. No. |
|------|-------------|-------------------|
| 20 L | Concentrate | 893.030135 |

| Technical Data | |
|----------------|--|
| Colour | Light Orange |
| pH | 10.5 to 11.5 |
| Dilution | Can dilute up to 150:1 based on requirements |

TOP GUN PREMIUM CLEANING GUN



Innovative technology for less wear, economical consumption of cleaning agents and improved performance.



Use the extra cup **708.891440** to store liquid cleaners when not in use.



Spare Parts:

Front Plastic Nozzle **891.703141 *NEW!***
Red Tube Nozzle **891.703142 *NEW!***

Art. No. 891.703140

Powerful cleaning gun for interior and exterior detailing of vehicles.

Features:

- Improved technology for better performance
- Ball-bearing drive creates a vortex effect
- Air and cleaning agent supply can be manually adjusted
- Dirt is lifted by the resulting suction
- Suitable for removing dirt such as nicotine staining, footprints, road salt tide marks, dog hairs, etc., from vehicle interiors and exteriors
- Articulated connection for more flexible handling (ideal for hard-to-reach places)

Benefits:

- Cleans more thoroughly and effectively
- Micro-atomization results in effective use of cleaning agent
- Dirt is removed extremely quickly
- For use with many Würth cleaning agents

Areas of application:

Rims, door entrances and door trim panels, ventilation ducts, instrument panels, upholstery and headliners, gear shift boots, fuel tank filler necks, license plates and all hard-to-reach places, including outside the vehicle

Recommended cleaners

ECO Super Spray All
Art. No. 890.90904 (4L)

ECO Industrial Degreaser Concentrate
Art. No. 893.117103 (4L),
Art. No. 893.117106 (20L)

ECO Textile Cleaner Concentrate
Art. No. 893.117121 (4L)

Note: TOP Gun premium cleaning gun does not come with the flexible connecting adapter.



SP1 FOAM GUN



Art. No. 891.703128 – P. Qty. 1

For intensive foam cleaning of surfaces and parts.

Non-runny, firm foam.

Great cleaning power.
Loosens stubborn dirt reliably and quickly.

Highly effective.

Efficient use thanks to visible application of the cleaning agent.
Optimum foam yield.

Environmentally-friendly.

Minimal waste water contamination thanks to conservative use of the cleaning agent.

Easy to use.

Ready for use in a short amount of time.

Two diffusers.

Can be used over small or large areas.

| Technical Data | |
|----------------------|------------------------------|
| Air consumption | 80-100 L/min. at 6.0-9.2 bar |
| Pneumatic connection | R 1/4" |
| Working pressure | 6.0-9.2 bar |
| Weight | 950 g |
| Filling volume | 1 L |

Areas of application:

Cars, trucks, buses, construction machines, land and forestry, vehicle preparation, building facade cleaning, equipment maintenance and much more.

Application:

Remove loose dirt from the surface to be treated. Fill the supply tank of the SP1 Foam Gun with cleaning agent according to the mixing specifications from the manufacturer. Screw on the appropriate diffuser, depending on the application. Connect the compressed air. Rotate the green lever to the vertical position to open access to the cleaning agent. Cover the object in foam, allow the cleaner to work in (but not dry) and then rinse thoroughly with water.

Note:

Do not use cleaning agents that contain acids, bases and/or are easily flammable. We recommend using Eco Cargo Wash, Eco Car Wash or Engine Wash. A constant air pressure of 6-8 bar (87-116 psi) is required for optimum output utilization.

Important:

After using the SP1 Foam Gun, fill the tank with water and rinse out the gun to remove cleaning agent residue from the unit. Then turn the green lever to the horizontal position and pull the trigger to remove the remaining water from the unit head.

Eco Cargo Wash, 20 L
Art. No. 893.030130 P. Qty. 1
Eco Car Wash, 20 L
Art. No. 893.030120 P. Qty. 1
Engine Wash
Art. No. 893.013... P. Qty. 1



ECO ALUMINUM WHEEL CLEANER



Powerful, non-corrosive aluminum wheel cleaner

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- Completely soluble in water
- A better choice for your health and for the environment

Acid-free

- Non-caustic, non-corrosive
- Creates absolutely no harsh vapours
- Gentle on materials and surface finishes
- Particularly well suited for polished and high quality alloy wheels

Powerful cleaning

- Foaming action allows longer dwell time
- Dissolves brake dust, road salt, dirt and tar
- No abrasives that could scratch the finish

Easy to use

- Spray on and rinse off
- Ready-to-use formulations

Areas of Application:

- Automotive and Trucking
- Efficient cleaning of steel and aluminum rims, aluminum trim on trailers, trucks, etc.
- Metal and Maintenance industries
- Cleans stainless steel, terrazzo, quarry tiles, aluminum, copper, concrete and brick
- This product is also a non-corrosive all-purpose cleaner for the removal of stubborn water scale, soap scum, rust stains, grease, mildew and mold

Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle **Art. No. 891.502200**

| Contents | Colour | Art. No. |
|----------|--------------|-------------------|
| 500 mL | Green | 890.10250 |
| 4 L | | 890.10204 |
| 20 L | | 890.102020 |
| 500 mL | Empty Bottle | 891.10250 |

ALUMINUM WHEEL CLEANER



Art. No. 890.102 500 mL

Special acidic cleaner for light metal rims

Contains phosphoric acid

Benefits:

- Removes even the most stubborn deposits of brake dust and tar stains, and other hard-to-remove contaminants
- Saves time and money
- Regular application serves to retain the original appearance. Helps to prevent the adherence of new contaminants.

Area of application:

For the rapid cleaning of light metal rims.

pH-value: 1.0

AOX-free¹, silicone-free¹

AOX = adsorptive organic halogen compounds, such as fluor, chlorine, chlorinated hydrocarbon, tri, per, etc.

Note:

Use only on light metal rims. Do not use on hot rims or in direct sunlight. Do not spray onto vehicle paint, chrome, highly polished aluminum, plastics or other surfaces.

TIRE DRESSING



Gives tires a dark, long-lasting, clean shine

Features:

Würth Tire Dressing is a water-based, solvent-free, and VOC free formula that provides great shine for tires. Würth Tire Dressing can be easily sprayed, and has great cling to keep it on the tires. It provides great gloss that lasts several weeks. Will not attract or hold dirt.

| Contents | Art. No. |
|----------|-------------------|
| 500 mL | 890.121500 |
| 4 L | 890.121004 |
| 20 L | 890.121020 |

Recommended: Tap for the 20L pail **Art. No. 891.302.03**

Note: This product contains silicone and is **not** bodyshop-safe. Please use our **Silicone Free Tire Shine Art. No. 890.1215** for any environment where silicone can cause problems.

TIRE SHINE



Art. No. 890.12104 4 L

Excellent cleaner and tire shine

- Water-based formula will not cause micro-cracking of the tire surfaces
- Leaves tires shiny and black, looking like new
- May also be used on other exterior rubber to improve appearance
- Contains no VOCs
- pH: 9.6
- This solvent-free formulation is a better choice for your health, and for the environment

FOAMING TIRE CLEANER



Art. No. 890.121 412 g

Maintenance product for tires

- Cleans, maintains and protects
- Prevents cracking and protects from embrittlement
- UV-protection prevents premature fading
- Improves appearance
- Anti-static
- Contains no solvents
- Does not attack aluminum rims or painted surfaces
- Contains silicone
- Can be used on wet or dry tires

Application:

- Wash off any mud or dirt from tire walls
- Spray foam evenly on tire walls and allow to dry
- No polishing needed
- Do not spray on tires for motorbikes, brake discs, drums or tire treads

SILICONE-FREE TIRE SHINE



Art. No. 890.1215 306 g

This tire shine contains no silicone, is made out of natural ingredients, is VOC compliant, biodegradable, and has a non-ozone depleting propellant.

Features:

- The Silicone Free Tire Shine from Würth doesn't contain any silicone and is not water based. It contains natural ingredients that enhance its performance.
- When applied, the ingredients seep into the pores of the tire surface, enriching, softening and deepening the black color.
- It builds and holds the shine longer, and at the same time repels inclement weather.

NON-FLAMMABLE BRAKE & PARTS CLEANER



A high quality, non-flammable and non-conductive, chlorinated hydrocarbon solvent that offers maximum degreasing performance. Removes accumulations of grease, oil and dirt with no residue.

Features:

- To clean and degrease drum and disc brake parts, as well as heavy equipment's parts.
- Also suitable for cleaning electrical equipment including: alternators, distributors, dynamos, switches, relays and regulators and small electric motors.

Benefits:

- Fast acting
- Removes grease, dirt and contaminants
- Completely evaporates and leaves no residue
- Non-conductive
- Reduces brake squeal
- No flash or fire point

| Specification | |
|---|-------------------|
| Appearance | Clear, colourless |
| Specific Gravity (@ 21°C, aerosol) | 1.65 ± 0.02 |
| Non-Volatile (Aerosol, % by wt) | 0% (w/w) |
| V.O.C. (Volatile Organic Compounds) level | 0% (w/w) |

| Description | Contents | Art. No. |
|-------------------------------------|----------|-------------------|
| Non-Flammable Brake & Parts Cleaner | 18.9 L | 890.108724 |
| | 525 g | 893.91090 |

BRAKE AND PARTS CLEANER



This highly concentrated solvent blend provides maximum performance brake & parts cleaner without the use of ozone diminishing or chlorinated solvents

- Silicone free
- Lead free
- Powerful blasting spray easily removes dirt & brake dust deposits, brake fluid

| Contents | Art. No. |
|-------------------|-------------------|
| 4 L | 890.108734 |
| 18.9 L | 890.108729 |
| 18.9 L Refillomat | 890.108718 |
| 408 g Aerosol | 890.9107 |
| 20 L Refillo | 890.108720 |

PUMP SPRAY BOTTLE FOR BRAKE & PARTS CLEANER



Art. No. 891.503002 1 L

For easy filling of products from canisters or drums.

Features:

- Easier to open, thanks to non-slip grip
- Ergonomic, robust pump spray atomizer with long handle

Benefits:

- Fatigue-free working thanks to low operating force
- Strong spray stream
- Good stability thanks to conical shape

Specifications

| | |
|----------|--------------|
| Material | Polyethylene |
| Diameter | 100mm |
| Height | 275mm |

TAP FOR BRAKE CLEANER



Art. No. 891.302.03

Tap for 18.9 litre Brake Cleaner

BRAKE SADDLE BRUSH - 9"



Art. No. 715.5526

Material: Chrome-Vanadium.

Chrome finish.

Length: 229 mm / 9"

Weight: 140 g

Benefits

- Has a narrow frame allowing it to be used in tight areas
- Heavier than normal steel bristles (chrome-vanadium) for quick removal of debris and longer life
- Hard handle makes it easy to hold even while covered in chemicals and fluids

Applications

- Excellent for cleaning debris/rust from calipers and caliper brackets/brake pad holders quickly
- Great for cleaning the tight areas around wheel hubs/wheel studs
- Good general purpose wire brush
- Great in any tight area that a regular brush won't fit

BRAKE CLEANER PLUS



Art. No. 890.10810 / 358g / P. Qty 24

Made in the Netherlands with a unique formulation designed for the safe and fast cleaning of disc and drum brakes. Can also be used for general cleaning of most surfaces where oil or grease is present.

Application:

Brake pads, clutch, shoes and linings. Oil, dirt and friction material dust. Breaks down tough products like; cavity protection, underbody seals and high performance greases.

Isopropyl alcohol based.

- Does not contain chlorhydric acids, C.F.C. or aromatics
- Provides optimum cleaning with fast evaporation
- Eliminates brake squeal and clutch slip caused by contamination

360° Spray nozzle.

- Gets into tough to reach areas
- No loss of pressure or stream when spraying at different angles

Material compatibility.

- O-rings
- Polypropylene (PP)
- Ethylene-propylene diene monomer (EPDM)
- Acrylonitrile butadiene styrene (ABS)
- Polystyrene
- NBR O-rings
- Paint / 2K Acrylic

| Specifications | |
|------------------------|---|
| Base | Mixture of Petroleum Distillates (n-heptane ~85%) |
| Additional | Isopropanol |
| Pressure | 8.4 bar |
| Output ratio | 51.4g / 10 seconds |
| Spray Pattern | Angled spray stream |
| Colour | Colourless |
| Odour | Mild |
| Density at 20°C (g/ml) | 0.71 |
| Anti-static | Yes |
| AOX-free | Yes |
| Silicone-free | Yes |

Note: Check rubber and plastic parts prior to application for compatibility.

MULTICLEAN



| Colour | Contents | Art. No. |
|------------|----------|----------|
| Colourless | 308 g | 890.1096 |

Fluid for cleaning and temporary lubrication in physiologically and ecologically sensitive areas

- Can be used in areas in which food is processed or stored. NSF H1¹
- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

Good cleaning and degreasing performance

- Removes oils, resin encrustations and silicone residues

No danger symbols such as F+, F, N or Xi

- Suitable for use in physiologically and ecologically sensitive areas
- Safe working

Good material compatibility

Acetone free

AOX- and silicone-free

¹NSF = Internationally recognized organization for the supervision and registration of products used in the food sector.

Areas of Application:

For residue-free cleaning and degreasing during assembly and maintenance work on machines, aggregates and tools in critical areas of the printing and paper industries as well as for applications in which the use of easily and highly inflammable cleaners is not desired.

| Technical Data | |
|-------------------------------------|------------------------|
| Chemical basis | Aliphatic hydrocarbons |
| Density at 20 °C (active substance) | 0.77 g/cm ³ |
| Flash Point | 40°C |

ASSEMBLY POWER CLEANER



| Contents | Description | Art. No. |
|----------|-------------|----------|
| 355 g | Aerosol | 890.107 |

Highly effective special cleaner including solvents.

Very high cleaning performance

Extremely effective in removing oily, greasy, sooty and slightly resinous contaminants

Short flash time

- Rapid cleaning that leaves no residue
- Short downtimes for the machine parts to be treated
- No need for subsequent treatment

Good material compatibility

- No swelling of FKM and polyamide seals
- Causes no corrosion to metal surfaces or to iron, steel, stainless steel, aluminum, brass

Spray head with direct spray jet

Precise and effective cleaning of the contaminated parts

Acetone-free

AOX- and silicone-free

Areas of Application:

For the cleaning of engine and gearbox casings, brake systems and vehicle, machine and coupling parts for maintenance, repair and assembly work.

| Technical Data | |
|----------------|----------------------------------|
| Chemical base | Aliphatic hydrocarbons |
| Colour | Transparent |
| Density | 0.710 g/cm ³ at 20 °C |
| Flash point | < 21 °C |
| VBF class | A I |

Recommended:

O-Ring Repair Kit for Pump Bottles

Art. No. 891.599

INDUSTRY CLEANER



| Contents | Description | Art. No. |
|----------|-------------|----------|
| 370 g | Aerosol | 893.140 |

High-quality special cleaner for industry and craft trades.

Powerful cleaning and dissolving properties.

Adhesive residues from labels and adhesive tape are removed. Stubborn soiling like wax, rubber abrasion, silicone residues, oil and grease are dissolved.

Compatible with most materials.

Unpainted surfaces like aluminum, brass, stainless steel and metallic surfaces are not attacked.

User friendly.

No unpleasant odours for user and environment. Fast, effective cleaning.

Acetone-free.

AOX- and silicone-free.

Application:

Removes adhesive tape residues, adhesive residues from paper and foil labels, plastic parts and metallic surfaces. Dissolves various marking inks, e.g. permanent markers, on smooth, non-absorbent surfaces. Removes fingerprints following assembly work. For pre-cleaning of adhesive bonds. Also suitable for removing protective preservatives, e.g. on brake discs.

| Technical Data | |
|----------------|--------------------------------|
| Chemical basis | Special petrol with d-limonene |
| Flash point | < 10 °C (50 °F) |
| VBF Class | A1 |
| Colour | Transparent |

Note: Check rubber and plastic parts for compatibility in an inconspicuous location prior to treatment. Paints may be attacked

BIOLOGICAL DRAIN TREATMENT



Art. No. 893.12004 – 4 L

This ready to use biological drain opener treatment cleans and eliminates odours fast by a natural enzymatic process promoting rapid liquefaction of grease and waste buildup

Features:

- The formulation of the Würth Biological Drain Treatment provides quick liquefaction of waste deposits, followed by microorganisms that attach to drain surfaces and organic deposits like tiny magnets. Once attached, they go to work, digesting organic deposits, grow and multiply to produce billions of additional workers.
- This biological process continues to work until the job is finished. Some microorganisms migrate further down the line treating additional pipe surfaces and grease traps and assisting to treat receiving waste streams and septic systems.

Benefits:

- Specifically designed for waste and drain applications.
- Promotes fast liquefaction by a natural enzymatic process
- Eliminates odours
- Reduces drain line maintenance and grease trap cleaning.

IPA SURFACE PREP AND CLEANER



Universal isopropanol surface prep and cleaner

Features:

- A high-grade isopropyl alcohol solution used for surface preparation and as a general cleaner.
- Highly effective solvent evaporates quickly and leaves no streaks on bare metal or glass surfaces.
- Safe for most sensitive surfaces, including most plastics.

Applications:

Ideal for final preparation, cleaning and degreasing of all substrates prior to adhesive bonding, including for adhesive wheel weights. Excellent as a light general-use cleaner. Removes a wide range of contaminants, such as dust, adhesive residue, labels, fingerprints, grease, bitumen, resin, ink, solder and flux residue, as well as uncured PU foam.

| Designation | Contents | Art. No. | P. Qty. |
|-------------|----------|------------|---------|
| Aerosol | 409 g | 893.223500 | 1 |

WÜRTH SHAMMY ABSORPTION TOWEL



Art. No. 899.800205



Excellent absorption and liquid retention

Size: 16.5 x 25 in
42 x 63 cm

Characteristics:

- Absorbs 50% more fluids three times faster than typical cloths
- Made of PVA with an anti-mold solution

Application:

Indicated for any type of surface, such as cars, trucks, boats, household, for drying pets and even yourself after exercising

MICROFIBER CLOTH



Art. No. 899.900108

Grey ultra soft Microfiber cloth 40 x 40 cm

Benefits:

- Extremely fleecy micro-fibre universal cloth with excellent dirt capturing characteristics
- Ideally suited as a polishing cloth on delicate paint surfaces
- Most suited for the removal of dust from interior surfaces due to its compact fibre structure
- High absorbency thus suitable as a drying cloth on all surfaces
- Velour edges – prevents micro scratches

BLUE MICROFIBRE CLOTH



Quality laboratory-tested by various vehicle manufacturers.

Features:

Extremely high cleaning power

- Faster application
- Cleans streak and lint-free
- Attracts dust with static effect

Cleans without using cleaning agents

- Reduced costs
- Optimally suited for polishing work
- Gentle to the environment
- Protects against allergies

Extremely fine, strong fibres

- Excellent sliding properties
- Hologram-free high-gloss polishing
- Long life

Specially developed surface structure

Does not leave behind scratch marks, fluff or silicone

Easy to care for

- Simply air-dry after use
- Washable at up to 60°C (do not wash with fabric softener)

Application:

The microactive cloth is optimally suited for maintenance cleaning and vehicle detailing. When dry, the cloth attracts dust and fine deposits like a magnet thanks to its static charge. Coarse and greasy dirt is removed by moistening the cloth before use.

| Designation | Dimensions | Art. No. | Qty. |
|-----------------------|---------------|------------|------|
| Microfibre Cloth Blue | 36 cm x 32 cm | 899.900107 | 1 |

| Technical Data | |
|-------------------------|-------------------|
| Absorption in 10 sec. | 702.50% |
| Max. absorption | 704.30% |
| Total absorption time | 30 sec. |
| Weight per square meter | 35.8 g ± 0.5 g |
| Fibre composition | PET/PA microfibre |

SOFTTEX CLOTHS



- The super-soft textile cloth.
- Can be used as a polishing cloth.
- Extremely tear resistant, even when wet.
- Solvent-resistant.
- Silicone-free.
- Very absorbent.
- Washable, wringable and reusable.
- Safe for use with food items.

| Design | Size in cm | Weight in g/m ² | No. of sheets | Art. No. |
|---------------------------------|------------|----------------------------|---------------|---------------|
| White, 1-ply, individual cloths | 29 x 38 | 65 | 50 | 899.800901 |
| | | | 500 | 899.800901.BK |

UNIVERSAL JUMBO SWABS ASSORTMENT



Art. No. 899.574

Can be used to lubricate, clean and apply paint on mechanical parts, fittings, tubing, threads, gaskets and much more!

- Does not lint
- Industrial grade
- High absorption
- Handles made out of strong bamboo.

Applications

Paint, oil, grease, graphite, cleaners and various chemical application and removal. Ideal for scrubbing and cleaning parts, tubes, ports, chambers and more. In addition to paints and chemicals, the swabs can also be used to clean paint guns, pneumatic tools and other equipments.

Other industry uses also include electronics repair, arcade type machines, weaponry, animals, home / kitchen, etc. The Swab set provides an inexpensive alternative to rags and small applicators.

Can be used in all industries: Automotive, Bodyshops, Detailing, Industrial, Commercial, MRO, Firearms

| Length | Diameter | Contents |
|--------|----------|-----------|
| 75 mm | 5 mm | 100 Swabs |
| 150 mm | 6.5 mm | 100 Swabs |
| 150 mm | 10.5 mm | 50 Swabs |
| 150 mm | 12 mm | 25 Swabs |
| 235 mm | 15 mm | 25 Swabs |
| 235 mm | 20 mm | 25 Swabs |

UNIVERSAL CLEANING WIPES



Art. No. 890.900900 (90 wipes)

A powerful, solvent-free, durable hand cleaner & towel combination.

Dimensions: 9" x 8"

Benefits:

- Convenient dispensing method makes clean-up quicker and more efficient
- Eliminates the need for paper towels, shop rags, or water
- Container stacks better and is easy-to-grip with one hand
- VOC-free solution, versatility and dispensing size make this environmentally friendly

Areas of application:

- Removes residue from hands
- Tools, equipment, and work area
- Virtually all hard surfaces

Features:

- Smooth, perforated, pop-up towels saturated with a unique, heavy-duty cleaning solution
- Small, sleek container
- Solvent-free
- Light Citrus fragrance
- Dissolves grease, grime, oil, lubricants, paints, tar, inks and more
- VOC-free
- Made from polypropylene material

UNIVERSAL CLEANING WIPES WITH SCRUBBER



Art. No. 890.900901 (90 wipes)

These wipes contain the same powerful hand cleaner as the Universal Cleaning Wipes, but feature a dual-textured towel with purple scrubber for deeper, faster cleaning.

Dimensions: 9" x 12"

Additional tools:

Wall Mounting Bracket **Art. No. 899.900900**

CLEANING TOWELS



- Very absorbent.
- Suitable for all common dispensers.
- In various plies and widths.
- Made from 100% recycled paper.

| Design | Sheet Size | Tear off sheets | Art. No. |
|-------------------------------------|---------------------|-----------------|-------------------|
| Industrial towel, blue, 2 ply | 36 x 38 cm | 1000 | 899.800773 |
| Industrial towel, blue, 3 ply | 36 x 38 cm | 1000 | 899.800823 |
| General purpose towel, white, 1 ply | Roll: 30 cm x 19 cm | 865 | 899.800653 |

DISPENSING DEVICE



Art. No. 899.800606

- With wheels and garbage bag holder.
- Product not included

| Width | Height | Depth | Max. roll width | Colour |
|-------|--------|-------|-----------------|--------|
| 50 cm | 86 cm | 68 cm | 38 cm | Red |

UNIVERSAL ABSORBENT ROLL



Universal rolls that absorb oils, coolants, solvents, water and much more!

Features & Benefits:

- Dimple bond pattern increases the physical strength of the polypropylene in every direction
- Vertically perforated providing flexibility and reduced cost-in-use
- Package in a convenient and sturdy dispenser box
- Designed for standard-use applications
- Offers great wicking and overall performance
- Disguises grime and unsightly spills - help keep your facility looking clean
- Can be used as a liner to keep shelves and tools clean and free from grime

Applications:

Automotive shops, garages, restaurants, office buildings, under machinery or vehicles to catch leaks and drips, workstations and anywhere leaks are common.

| Description | Dimensions | Art. No. | Per Package | P. Qty |
|--|------------|-----------------|-------------|--------|
| Universal Absorbent Roll - Medium Weight | 15" x 75' | 885.8919 | 1 Roll | 1 |

Replaces 885.8916

| Technical Information: | |
|-----------------------------------|---------------|
| Product Width (in.) | 15" |
| Product Width (cm) | 38 cm |
| Product Length (ft.) | 75 |
| Product Length (m) | 25 |
| Sheets per roll | 75 |
| Product Colour | Grey |
| Bonding/Embossing | Dimple |
| Ply Count/Layers | 2 |
| Product "Weight" / Density Weight | Medium weight |
| Total Absorbency (Gal) | 10 Gal |
| Total Absorbency (L) | 38 L |

HIGH-VISIBILITY SAFETY UNIVERSAL ABSORBENT



Universal multi-use pad that combines an absorbent with caution/warning sign

Features:

- 2-ply construction
- 150 perforated large sheets per roll (300 half sheets)
- 1 roll = 32" x 150'; 1 large sheet = 32" x 12"; Half sheet = 16" x 12"
- Dimple bond
- High-visibility colour warning

Benefits:

- Absorbs most acids, caustics, solvents and common fluids including oils and water
- Instantly warns customers and visitors of any spill
- Ideal for high-traffic areas where risk for slips, trips and falls are present
- Can be used with or without a "Caution: Wet Floor" sign
- Easily cut to fit desired length

Suggested Uses:

- Automotive shops, garages, restaurants, office buildings, under machinery or vehicles to catch leaks and drips, workstations and anywhere leaks are common.

| Description | Dimensions | Art. No. | Absorbency per pkg. roll |
|----------------------|------------|-------------------|--------------------------|
| High-Visibility Roll | 32" x 150' | 899.900960 | 46 Gallons |

OIL ONLY ABSORBENT PADS



Economical choice for OIL ONLY spills

Features & Benefits:

- Absorbs petroleum based liquids and repels water
- Oil-only sorbents are white in color, which creates a high-contrast when used with hydrocarbons and other oil-based liquids & fluids
- Packaged in a convenient and sturdy dispenser box
- Spun bond on both sides gives superior strength
- Fluids absorbed: hydrocarbons, oil, gasoline, fuel oil, diesel and lubricating oil
- Virtually lint-free
- Highly adsorbent melt blown polypropylene center for cost-effectiveness

Applications:

Automotive shops, garages, restaurants, office buildings, under machinery or vehicles to catch leaks and drips, workstations and anywhere leaks are common.

| Description | Dimensions | Art. No. | P. Qty |
|---------------------|------------|-----------------|--------------------|
| White Oil Only Pads | 16" x 18" | 885.8918 | 100 sheets = 1 box |

| Technical Information: | |
|-----------------------------------|--------|
| Product Width (in.) | 16" |
| Product Width (cm) | 41 cm |
| Product Length (in.) | 18 |
| Product Length (cm) | 46 |
| Product Colour | White |
| Bonding/Embossing | Dimple |
| Ply Count/Layers | 1 |
| Product "Weight" / Density Weight | Medium |
| Total Absorbency (Gal) | 24 Gal |
| Total Absorbency (L) | 91 L |

UNIVERSAL ABSORBENT PAD



Universal pads that absorb oils, coolants, solvents, water and much more

Features & Benefits:

- Dimple bond pattern increases the physical strength of the polypropylene in every direction
- Vertically perforated providing flexibility and reduced cost-in-use
- Package in a convenient and sturdy dispenser box
- Designed for standard-use applications
- Offers great wicking and overall performance
- Disguises grime and unsightly spills - help keep your facility looking clean
- Can be used as a liner to keep shelves and tools clean and free from grime

Applications:

Automotive shops, garages, restaurants, office buildings, under machinery or vehicles to catch leaks and drips, workstations and anywhere leaks are common.

| Description | Dimensions | Art. No. | P. Qty |
|--|------------|-------------------|--------------------|
| Universal Absorbent Pad - Heavy Weight | 16" x 18" | 899.900968 | 100 sheets = 1 box |

| Technical Information: | |
|-----------------------------------|--------------|
| Product Width (in.) | 16" |
| Product Width (cm) | 41 cm |
| Product Length (in.) | 18 |
| Product Length (cm) | 46 |
| Product Colour | Grey |
| Bonding/Embossing | Dimple |
| Ply Count/Layers | 1 |
| Product "Weight" / Density Weight | Heavy Weight |
| Total Absorbency (Gal) | 27 Gal |
| Total Absorbency (L) | 103 L |

ECO ABSORB



| Weight | Absorption | Art. No. | Equivalent |
|--------|------------|------------|-----------------|
| 1.8 kg | 10 L | 890.620020 | 80 lbs. of Clay |



Reduce waste and increase productivity.
Eco Absorb absorbs 20 times more than traditional absorbent clays and powders.

Non Toxic

100% Organic. Carcinogen-free. Silica-free.

Save Time and Money

Absorbs on contact. Eco Absorb works quickly to ensure a dry, non-slip area in seconds.

Easy Disposal

Exceeds Federal EPA Leachate Standards. Just cleanup and throw away.

Non-Abrasive

Eco Absorb will not cause scratches, so equipment or floors will never be damaged.

Dust Free

Carcinogenic clay dust is a thing of the past; Eco Absorb is dust free and will not track all over your workspace.

Improves Workplace Safety

Eco Absorb absorbs 20 times more than traditional absorbent clays and powders completely encapsulating the spill. It reduces the impact of spills and prevents further hazards from slippery residue, by leaving behind no drips or streaks.

Reusable

Eco Absorb will not leach, making it landfill safe. You can use it again and again.

Less Waste

Compared to traditional clay absorbents, Eco Absorb produces one third less waste when used due to its super absorbent qualities.

Applications:

- Brake fluid
- Motor oil
- Fuel & Diesel
- Coolant
- Antifreeze
- Solvents
- Carbon black
- Transmission fluid
- Detergents
- Degreasers
- Paint & Paint Thinners
- Household fats, oils and greases

Industries:

- Automotive
- Marine
- Oil & Gas
- Waste Management
- Food Industry
- Fleet Management
- Mining
- MRO
- Rail Industry
- Paint Industry
- Fabrication
- Hospitality
- Public Works
- Home & Health Care

OIL DRUM TOPPER PAD



Art. No. 890.900950

Heavy weight drum top pad made of recycled material

Features & Benefits:

- Absorbs oil / fuel, repels water.
- Fits 55-gallon drum tops
- Pre-cut with holes for 3/4" and 2" bungs to provide a perfect fit
- Made From Recycled Material - Earth Friendly!
- Dimensions - 22"
- 25/Box

Applications:

Absorbs oil, diesel gas, coolants, cutting fluids, hydraulic fluids, vegetable oil, acetone and turpentine.

OIL DRUM TOPPER PAD



Art. No. 899.900963

Smaller sized absorbent rolls that absorb oils, coolants, solvents, water & much more.

Features & Benefits:

- Easier to use than floor sweep so it reduces cleanup time; just put it down, let it work and pick it back up.
- Free of damaging grit and dust, so it is perfect for use around delicate sensors, parts and tools
- Nothing to track around; keeps dirt and grit out of customer vehicles and maintains a clean, professional environment in the shop
- Safely absorbs and retains oil, coolants, water, grease, gasoline, solvents, auto fluids, paint overspray, battery acid and most other liquids
- Compact, grab-and-go Roll size is great for mobile techs
- Absorbency: Up to 16.8 L per Roll.
- Quantity: 12 Rolls per Package.
- Roll Size: 15" x 50' / 38.1 cm x 15 m

Applications:

Automotive shops, garages, restaurants, office buildings, under machinery or vehicles to catch leaks and drips, workstations and anywhere leaks are common.

MAGNETIC ROLL HOLDER



Art. No. 899.900951

Features & Benefits:

- Durable, powder-coated steel resists chips, rust and corrosion
- Powerful magnets keep Roll Holder firmly in place during dispensing
- Can be removed and relocated in seconds
- Ideal for attaching to tool boxes, car lifts, support beams or other metal surfaces

UNIVERSAL PAIL SPILL KIT



Art. No. 890.900960

Spills happen no matter how hard you try to avoid them. It is important to have the right sorbents on-hand when these spills occur to eliminate the slip-and-fall hazard.

Kit Includes:

- 10 - 15" x 19" Gray Universal Heavy Weight Sonic Bonded Pads
- 2 - 3" x 4" Gray Universal Sorbent Socks
- 2 - 18" X 30" Yellow Disposal Bag & Tie
- 1 - Pair Nitrile Gloves
- 1 - Safety Goggles
- 1 - 3" x 5" Vinyl Spill Kit Label
- 1 - 12" x 16.75" White 5-Gallon

Absorbency: ABSORBS 5.2 GAL

UNIVERSAL TOTE SPILL KIT



Art. No. 890.900961

Be prepared for fast response with a high-visibility Universal Spill Kit.

Kit Includes:

- 20 - 15" x 19" Gray Universal Heavy Weight Sonic Bonded Pads
- 2 - 3" x 4" Gray Universal Sorbent Socks
- 2 - 18" x 30" Yellow Disposal Bag & Tie
- 1 - Pair Nitrile Gloves
- 1 - Safety Goggles
- 1 - 20" x 15" x 4" Green Tote Bag

Absorbency: ABSORBS 8.09 GAL

UNIVERSAL TRUCK SPILL KIT



Art. No. 890.900962

A quick response is the first order of business — and your best weapon.

Kit Includes:

- 20 - 15" x 19" Gray Universal Heavyweight Sonic Bonded Pads
- 3 - 3" x 4" Gray Universal Sorbent Socks
- 2 - 18" X 30" Yellow Disposal Bag & Tie
- 1 - Pair Nitrile Gloves
- 1 - Safety Goggles
- 1 - 3" x 5" Vinyl Spill Kit Label
- 1 - 7" x 15" x 18" Clear Vinyl Zippered Bag

Absorbency: ABSORBS 9.2 GAL

UNIVERSAL NON SLIP TRACTION MAT



Art. No. 713.11120

An easy, durable solution to combat slips trips & falls in a variety of environments.

Features & Benefits:

- The bottom layer sticks to the ground/surface using Cling technology (adhesive)
- Can be easily peeled back up and repositioned as needed
- Stands up to heavy foot or vehicle traffic, to include fork trucks
- Easy to use: roll out continuous walk-off coverage for entrances and walkways with no gaps, ripples or overlaps that can be slip, trip or fall hazards
- Absorbs a wide variety of oil and water-based spills
- Durable top layer can be vacuumed, swept with a broom or mopped
- Top layer is a super-strong durable nonwoven material that aids in foot traction
- Cut to size and use to line drawers in tool chests or other work areas
- Absorbency: Up to 40 L per Roll.
- Roll Size: 34" x 50' / 86 cm x 15 m
- Medium Weight

WHITE T-SHIRT RAGS



Art. No. 899.800333

Lightweight cotton wipers ideal for general purpose cleaning!

Features & Benefits:

- All white t-shirt wipers are low linting and have a high cotton content that gives it excellent absorbency.
- Ideal for all wiping, cleaning, staining, waxing and polishing applications
- For use with solvents or chemicals which may cause colors to run
- Quantity: 25lbs per bag.
- Dimensions: 19" X 9" X 17"

COLOURED FLEECE RAGS



Art. No. 899.800444

These fleece towels are tough and resist snagging while wiping down greasy equipment & machinery!

Features & Benefits:

- Economical, durable all-purpose wiper ideal for oil, grease and water clean-ups
- Mixed Colours
- Soft and lightweight, high absorbency
- Made from pure sweatshirt material
- Can be used to dust, clean and wash
- Multi-purpose rag
- Ideal for janitorial, garage and shop facility
- Quantity: 25lbs per bag.
- Dimensions: 19" X 9" X 17"

16 VEHICLE REPAIR & COMPONENTS

2 Wiper Blades & Windshield Repair

4 Vehicle Protection

10 Underbody Protection

15 Wheel & Tire

- 15 Wheel Hub Cleaning Tool & Discs
- 16 Stud Cleaning Tool & Brushes
- 18 Tire Mounting, Repair, & Tools
- 28 Wheel Weights, Balancing Beads, & Tools
- 43 Mount/Dismount Heads
- 43 Wheel Nut Flags & Safety Locks
- 44 Tire Valves, Valve Cores, & Tools
- 46 Air Gauges & Chucks
- 50 Tire Pressure Monitoring System (TPMS)
- 51 Tire Crayons

52 Brakes

- 52 Brake Protection
- 54 Brake Fluid Testers
- 55 Brake Line, Nuts, & Bleeder Screws

60 Engine & Exhaust

- 60 Metal Repair Epoxy
- 61 Injector Cleaners & Air Intake Cleaners
- 63 Engine Shampoos

65 Body Repair

- 65 Fillers, Putty Knives & Mixing Boards
- 73 Seam Sealers & Waterproofing
- 78 Plastic Repair
- 79 Dent Repair
- 84 Sound Deadening Pads
- 84 Amo Bag Air Wedge

85 Air Conditioning

- 85 Leak Detection Kit
- 86 High Powered UV Light
- 87 Injection Kits & Systems
- 88 Dyes & Dye Cleaners
- 89 Leak Sealants
- 89 A/C Performance Enhancer
- 90 A/C Lubricants, Oils, & Refrigerants
- 91 A/C Assortments
- 95 A/C Flush
- 97 A/C Components
- 98 A/C Tools

99 Commercial Vehicle

- 99 Circuit Testers
- 101 Glad-Hands
- 102 Tow Straps & Ratchet Assemblies
- 103 Winches & Winch Straps
- 104 Rubber Ties & Tenders
- 104 Sockets & Plugs
- 105 Air coils
- 105 Air Power Line 3 in 1
- 106 Charge Air Coolers Hose

TRADITIONAL WINDSHIELD PASSENGER WIPER BLADE



Value performance leader

Features & Benefits:

- Corrosion resistant, all metal, riveted frame structure
- Compression molded rubber with moly coating to optimize quality of wipe and durability
- Twin stainless steel flexors provide even pressure distribution between all contact points
- Universal, pre-installed adapter
- Plastic bushes at all metal-to-metal links prevent noise and excessive play

| Length (in.) | Art. No. | P. Qty. |
|--------------|------------|---------|
| 13 | 848.020131 | 2 |
| 15 | 848.020151 | |
| 16 | 848.020161 | |
| 17 | 848.020171 | |
| 18 | 848.020181 | |
| 19 | 848.020191 | |
| 20 | 848.020201 | |
| 21 | 848.020211 | |
| 22 | 848.020221 | |
| 24 | 848.020241 | |
| 26 | 848.020261 | |
| 28 | 848.020281 | |

PROCURVE WINDSHIELD PASSENGER WIPER BLADE



Designed for improved performance

Features & Benefits:

- Unmatched ease, safety, and connection profiles
- Rigid primary and flexible secondary in frame design gives even pressure distribution
- Integrated wind spoiler and wrap around shield on top and bottom of the frame
- Reduces snow clogging and icing

| Length (in.) | Art. No. | P. Qty. |
|--------------|------------|---------|
| 16 | 848.091161 | 2 |
| 17 | 848.091171 | |
| 18 | 848.091181 | |
| 19 | 848.091191 | |
| 20 | 848.091201 | |
| 21 | 848.091211 | |
| 22 | 848.091221 | |
| 24 | 848.091241 | |
| 26 | 848.091261 | |

WIPER BLADE WALL RACK



Art. No. 966.700008 - P. Qty. 1

Point of Purchase Display

Features & Benefits:

- Wall racks are a great way to attract new customers, keep service bays or stores clutter free, and to keep inventory organized and displayed
- 50 blade capacity
- 8 facings
- 25" across
- Assembly required
- Instructions included
- Wiper blades sold separately

NEW

WIPER BLADE FLOOR RACK



Art. No. 966.700023

Point of Purchase Display

Features & Benefits:

- Floor racks are a great way to attract new customers, keeping service bays or stores clutter free and keeping inventory organized and displayed
- 80 blade capacity
- 16 facings
- 72" x 25" x 25"
- Assembly required
- Instructions included
- Wiper blades sold separately

WINDSHIELD REPAIR KIT



Art. No. 964.893750

For use on all laminated windshield glass

- Each kit is ready to make 10 repairs

Features:

- Simple to use and maintain! Most other windshield repair systems require multiple seals and "O-rings". Our system requires only one seal.
- The bridge is equipped with a vacuum cup, others use suction cups. The vacuum cup allows complete 360 degree adjustability.
- Our kit includes a pit location device called a centering tool that ensures the injector barrel is straight over the centre (pit) of the break, without the need to view down the barrel for those hard to reach and see spots.
- No extra pumps or hoses needed in our kits.
- Kits come complete with everything needed to professionally repair all types of repairable windshield damage such as Star, Bull's-eye, Combination breaks and cracks.
- One-shot high quality repair resin

Suitable For:

- Laminated automotive glass
- Vertical repairs
- Edge repairs
- Curved glass
- For the repair of Star, Bull's-eye, Combination breaks and cracks

* Please refer to your instruction manual more detailed information.

* All items in the kit are also available to order separately

See our demo on YouTube!

* Please keep the kit and contents out of direct sunlight*

Kit Contents

| Art. No. | Description | Qty. |
|--------------|--|---------|
| 891.634425 | LED UV LIGHT (requires 1 lithium battery, #827.805600 that comes in the kit and also available separately) | 1 |
| 891.634432 | LED light stand | 1 |
| 899.900107 | Micro fibre cloth | 1 |
| 891.634420 | Windshield repair Resin (one shot 5pack) | 2 |
| 899.103132 | Safety Glasses Trendus Clear | 1 |
| 891.634423 | Curing tabs - 100 pack | 1 pack |
| 891.634451 | Bridge assembly | 1 |
| 893.0000 | Pit Polish | 1 |
| 891.634422 | Premium Pit Resin | 1 |
| 714.70150 | Scribe Steel Point | 1 |
| 891.634441 | Centering Tool | 1 |
| 714.663200 | Razor blade holder | 1 |
| 715.35795 | Inspection Mirror | 1 |
| 899.470329 | Black Nitrile Gloves Large | 5 pairs |
| 891.634438 | Injector Seals - 5 pack | 1 pack |
| 690.9 | Razor blades - box | 1 box |
| 715.930002 | Temporary tool bag to be replaced with zippered bag 715.93610 | 1 |
| 827.805600 | Rechargeable Lithium Battery # 18650 | 1 |
| 008.WRMANUAL | Instruction Manual | 1 |
| 714.16160 | Charger for battery | 1 |

WINDSHIELD REPAIR ACCESSORIES

| Accessories | | |
|-------------|--------------------------------------|--------|
| Art. No. | Description | Qty. |
| 702.999051 | Dremel Drill - 4.8 volt rechargeable | 1 |
| 616.990001 | Carbide Bur Tapered (5-pack) | 1 pack |
| 616.990002 | Carbide Bur Round (5-pack) | 1 pack |
| 891.634430 | UV Light - 12 Volt | 1 |
| 891.634440 | UV Screen | 1 |

Uses:

- Buses
- Trucks
- Automotive
- Fleet Vehicles

Dremel Drill - 4.8


The Dremel/drill and carbide burs are necessary if the break needs to be drilled to provide an access point for the resin.

Carbide Bur Tapered (5-pack)

Carbide Bur Round (5-pack)

UV Light - 12 Volt


Optional source of UV light, this lamp can be plugged into the car lighter plug.

UV Screen


When performing repairs outside, this screen is used to block the sun's UV rays to eliminate premature curing.

GUARD PROTECTION COVER


Art. No. 899.600

Protects against possible damage when repairing and servicing.

- Suitable for all types of cars.
- Material: Black artificial leather.
- The inside and contact surface is lined with a soft foamed material.
- Flexible with temperature which prevents cracking.
- Unique design with sewn-in sandbags allows the cover to form to the resting surface and prevents any damage.
- 65cm (L) x 80cm (W) (25.6" x 31.5")
Weight: 1.5kg (3.31lbs)

5-IN-1 INTERIOR PROTECTOR SET



Art. No. 899.500051

- All necessary protectors are provided on a single tear-off.
- Easy logistics, because it's just one article.
- Saves storage space and dispenser systems.
- Suitable for most passenger car interiors.
- Supports mechanics in complying with the required quality standards.
- All protectors are packed in a dust-proof dispenser carton

Seat protector and floor mat

- Perfect fit and adhesion with anti-slip underside.
- Transparent headrest area enables a clear view when driving in reverse and during test drives.
- Protection against oil, dirt and water.

Protective film for steering wheel, shift lever and handbrake

- The multilayer film is especially anti-slip and adhesive.
- High-stretch film, elastically adapts to shapes.
- Transparent material is used to recognize symbols.
- Protects the control elements against soiling.



| Protective element | Length in mm | Width in mm | Thickness in mm |
|----------------------------|--------------|-------------|-----------------|
| ① Seat protector | 1,400 (55") | 760 (29") | 0.015 |
| ② Floor mat | 700 (29") | 510 (20") | 0.015 |
| ③ Steering wheel protector | 490 (19") | 150 (6") | 0.025 |
| ④ Shift lever protector | 150 (6") | 90 (3 1/2") | 0.025 |
| ⑤ Brake lever protector | 150 (6") | 100 (4") | 0.025 |



| Dispenser carton L x W x H in mm | Roll width in mm | Roll dia. in mm | No. of tear-offs per roll | P. Qty. |
|-------------------------------------|------------------|----------------------|---------------------------|---------|
| 730 x 240 x 235 (28" x 9" x 9 1/4") | 725 (28") | Approx. 200 (7 3/4") | 200 | 1 |

Recommended: Use with Seat Cover Roll Dispenser Racks **Art. No. 899.50004 & 899.50006**

PROTECTIVE CAR FILM



Self-adhesive weather barrier plastic film that protects car interior and body.

Features:

- Blue 2.3 mil film
- Adhesive film
- Continuous 100 ft. roll

Benefits:

- Vehicle interior is protected from rain, snow, and other debris
- Adhesive does not transfer to the body of the vehicle when removed
- Leaves vehicle undamaged with no residue
- Protects vehicle up to 90 days
- Low density polyethylene which will actually begin to soften at 60°C but will retain its form and can withstand cold down to -20°C

Suggested Uses:

On-site vehicle recovery, body shops, automotive storage, equipment storage, protective covering while cleaning equipment and wrapping of items during transportation.

Note: Protective Car Film should not be used on freshly painted vehicles. Remove old Protective Car Film within 90 days and replace it with a fresh application to help prevent adhesive from transferring to the vehicle's surface. Use Rubbing or Isopropyl Alcohol or Citrus based cleaners to remove any residue. (Art. No. 893.460005)

Other names for Protective Car Film include: Crash Wrap or Collision Wrap.

| Description | Dimensions | Art. No. |
|-------------------|------------|-----------|
| Blue, 2.3mil film | 36" x 100' | 818.77054 |



SEAT COVER ROLL DISPENSER RACK



Art. No. 899.50006

- For individual wall mounting or installation in ORSY® basic components
- Practical, safe storage unit removal
- The protective cover prevents soiling
- For seat protectors and tire bags
- Delivery scope without contents, however with mounting materials

Recommended:

Use with 5-In-1 Interior Protector Set

Art. No. 899.500051

| Length mm | Height mm | Max. roll width mm | Max. roll diameter mm | Weight kg |
|-----------|-----------|--------------------|-----------------------|-----------|
| 820 | 570 | 700 (750*) | 190 (260*) | 5.0 |

* Without protective box

REUSABLE SEAT COVER



Art. No. 899.500090 - P. Qty. 4

- An environmentally conscious alternative to disposable plastic seat covers.
- Keeps car seat clean of oil and dirt.
- Cost effective, as they can be machine washed and re-used many times.
- Crafted with durable and long-lasting polypropylene material.
- Easy-to-use, simply hook the cover over the headrest.
- Won't slip or slide on the seat.
- Save money, as each seat cover will pay for itself after multiple uses when compared to disposable plastic covers.
- 80 cm x 150 cm (31-1/2" x 59").

5-IN-1 PROTECTIVE CAR SET



Art. No. 899.500004

5 piece protector set for vehicle interiors.

Features and Benefits:

- Easy to use design
- All necessary protectors are supplied in a Polyethylene bag for protection from dust and dirt
- Simple to plan material requirements, as only one item; saves storage space and makes dispenser systems unnecessary
- Suitable for most passenger vehicle interiors

SEAT PROTECTOR

- Optimal material thickness for high tear resistance and elasticity

FLOOR MAT

- Combination of absorbent paper and coated underside prevents soaking through
- Protection against oil, dirt and water

STEERING WHEEL, GEAR LEVER AND HANDBRAKE PROTECTOR

- Protects from dust and dirt

| Included | Length (cm) | Width (cm) | Material | P. Qty |
|----------------------|-------------|------------|----------|--------|
| Seat Cover | 130 | 80 | LDPE | 1 |
| Steering Wheel Cover | 130 | 10 | | |
| Gear Shift Cover | 14 | 14.5 | | |
| Floor Mat | 38 | 50 | | |
| Outer Bag | 29 | 21 | | |

FLOOR PROTECTOR



Fuel and lubricant resistant floor protectors.

Features and Benefits:

- White, oil-resistant and water-resistant PE film
- One roll is sufficient for approx. 500 passenger vehicles
- Exact perforation ensures high tear-off quality
- Dust-proof thanks to practical dispenser carton

Applications:

- Fits most passenger vehicles

| Number of Tear-offs | Material | Length (cm) | Width (cm) | Art. No. | P. Qty. |
|---------------------|-------------------|-------------|------------|-----------|---------|
| 500 | PE - Polyethylene | 50 | 38 | 899.50003 | 1 |

PROTECTIVE SEAT COVER



Polyethylene seat protector on roll for easy dispensing.

Features and Benefits:

- White, oil-resistant and water-resistant PE film
- Film thickness of 13 µm (0.013 mm) for optimal material thickness for elasticity in all directions
- Exact perforation for precise and easy tear-off
- Easy to unroll without the film pulling to one side
- Practical dispenser carton protects against dust

Applications:

- Fits most passenger vehicle interiors

| Number of Tear-offs | Material | Length (cm) | Width (cm) | Art. No. | P. Qty. |
|---------------------|-------------------|-------------|------------|-----------|---------|
| 500 | PE - Polyethylene | 130 | 80 | 899.50001 | 1 |

STEERING WHEEL COVER



Flexible and non-slip steering wheel cover on a roll.

Features and Benefits:

- White, oil-resistant and water-resistant PE film
- Optimal durability and flexibility thanks to high material thickness of 0.039 mm
- One roll is sufficient for approx. 500 steering wheels
- Exact perforation ensures high tear-off quality
- Dust-proof thanks to practical dispenser carton

Applications:

- Fits most passenger vehicle steering wheels

| Number of Tear-offs | Material | Length (cm) | Width (cm) | Art. No. | P. Qty. |
|---------------------|-------------------|-------------|------------|-----------|---------|
| 500 | PE - Polyethylene | 31 | 15 | 899.50002 | 1 |

STEERING WHEEL WRAP



**Polyethylene adhesive film
for steering wheels.**

Features and Benefits:

- One roll is sufficient for approx. 215 steering wheels
- Continuous film suitable for all steering wheel types
- Optimal durability and flexibility thanks to high material thickness of 0.014 mm

Applications:

- Fits most passenger vehicle steering wheels



| Capacity | Material | Length (cm) | Width (cm) | Art. No. | P. Qty. |
|----------|-------------------|-------------|------------|-------------------|---------|
| 215 | PE - Polyethylene | 30 | n/a | 899.500025 | 1 |
| 215 | PE - Polyethylene | 30 | 14 | 899.500026 | 1 |

UNDERBODY SEALANT



Sprayable permanent protection against corrosion and stone penetration. Made from bitumen-rubber-resin.

- Remains flexible
- Water and salt-resistant
- High temperature resistance
- If applied onto vertical surfaces in layers of 6-3 mm, it does not drip or sag
- 2 year shelf life
- **Cannot be painted over**

| Colour | Contents | Art. No. |
|--------|----------|----------------|
| Black | 1 L | 892.072 |

PAINTABLE RUBBERIZED UNDERCOATING



A rubberized coating that provides soundproofing, resists abrasion, remains flexible and can be painted over with most automotive paint.

Applications:

To be applied to the wheel wells, the inside of door panels or fenders, the underside of a trunk or hood or the underside of a motor vehicle.

Directions:

Lightly sand surface to enhance bond. Surface should be clean, dry, and free of any contaminants such as wax, grease or silicone. Shake thoroughly before using. Using a siphon gun at 40-80 psi, adjust air pressure and spraying distance to match factory texture. Under normal conditions, allow 1-1/2 to 2 hours drying time. Make sure coating is fully cured before top coating. When top coating, apply a first thin coat. Allow 5 minutes flash time. Follow with a full wet coat.

| Contents | Colour | Art. No. |
|----------|--------|-------------------|
| 1 L | Black | 892.075210 |

HIGH-BUILD UNDERBODY SEALANT



Art. No. 890.90720 446 g

Permanently elastic, bitumen-free rubber-plastic combination

- Fast drying, can be painted over with spray paints after drying (about 1 to 2 h)
- Protects against flying stone
- Prevents corrosion due to water and road salt
- Seals and acts as a sound deadener
- For vehicle underbodies, wheel boxes, sill boards, spoilers, rear valances, motor hoods and trunks
- Permanently elastic, and impact, abrasion and heat resistant
- Can be sprayed without mist; does not run or drop off
- Colour: Black

GRAVEL GUARD – AEROSOL



All gravel guards supplied by Würth Canada Ltd. have basically the same principles in regards to their application and setting times.

- The aerosol is particularly suitable for inaccessible areas
- For vehicle underbody, sills and wheel wells
- Paintable when dry
- Excellent match to Ford O.E.M. finish

All panels must be primed and clean from contamination before application.

To achieve best results, spray product approximately 10-12 inches away from the surface. If this distance is closer than 10-12 inches product overload will occur i.e.; running, patchy finish, etc. Whereas if the distance is too far away, the finished product will be very coarse in finish.

The product should be applied in a flowing sideward motion, going left to right, a slight overlap is required of each motion, keeping this to a minimum, thus avoiding any unwanted build up of the product.

Any overspray should be cleaned off within a few minutes of application.

Setting times

All the gravel guards are paintable with any modern paint system after 1-2 hours (finger touch dry). If the gravel guards are left longer than 12 hours, the product will require prepping before any further work can be applied over it, (red or grey Scotchbrite is ideal). After 24 hours the product can be mechanically sanded with minimum 120 grit paper. If several layers are to be applied, DO NOT FORCE DRY, if this is done, the product's solvents will be unable to escape, leaving a hard skin on the outside and remaining soft underneath. If multiple coats are required it is important to wait 1-2 hours between coats, then apply the next layer, thus allowing the solvents to escape. Gravel guards are not designed to be used as an undercoating.

| Description | Contents | Art. No. |
|---------------------------------|----------|------------------|
| Black / Fine grain-like texture | 450 g | 892.071 |
| Beige | 550 g | 892.90101 |
| Black / Thick wave-like texture | 405 g | 892.9071 |

UNDERBODY PROTECTION



A unique oil-based formula used for annual rust proofing applications.

Features:

- Dripless rust proofing is a uniquely formulated product that prevents rust and corrosion from attacking the undercarriage of your vehicle.
- It has state of the art rust inhibitors that work to protect the vehicle from the elements, as well as road salt, sand and other contaminants.
- This product protects the vehicle by displacing moisture, and by coating the surface with highly effective corrosion inhibitors.
- Non-flammable.
- Base ingredients are highly refined mineral oils.
- Does not contain any heavy metals.
- Easy to apply.
- Superior tachifiers offer superior adhesion.
- Unique No-Drip formula.
- Incredible capillary action to penetrate seams, pinch-welds and hard to reach inner cavities.
- Minimal over spray.
- Non-offensive odour.

Application:

Interior cavities, inner rocker panels, pillars, doors and frames. Can also be used on the under-side of vehicles.

Application tools:

Pneumatic Gun with Container **Art. No. 891.100**
UBS Gun **Art. No. 891.110640**

Note: Never apply the product on rubber or plastic. Avoid applying any materials on or near catalytic converters and mufflers due to extreme heat.

| Colour | Contents | Art. No. | P. Qty. |
|--------|----------|-----------------|---------|
| Amber | 18,9 L | 892.0801 | 1 |
| Black | | 892.0802 | |

CAVITY PROTECTION WAX



Suitable for long term protection against corrosion in at risk bodywork cavities such as seams, hemmed and welded parts, edges and surfaces of sills, struts, door cavities, etc.

Features:

- Very efficient cavity wax protection for door pillars, door sills, inside door skins, head light recesses, fenders, trunk decks, etc.
- Can also be used as an anti-corrosion spray for any internal and external metal surfaces, as well as underbody applications
- Displaces dampness and water
- Penetrates rust and prevents further rusting
- Aerosol cavity wax can be used anywhere - no airline system needed
- Suitable for patch-up and repair work
- Extreme creep characteristics and excellent adhesion to metallic surfaces.
- Does not attack rubber and plastic components
- Compatible with top coat paints.

Note: Art. No. 893.081 is LIQUID and has an excellent creeping characteristic; therefore, it is ideal for hard-to-reach areas, corners and joints.

Art. No. 893.081150 has a THICKER texture and offers a stronger protection for exposed surfaces.

| Colour | Texture | Contents | Art. No. |
|-------------|----------------|----------|-------------------|
| Beige | Thick/gel-like | 405 g | 893.081150 |
| Light Beige | Liquid | 345 g | 893.081 |

WAX UNDERBODY PROTECTION - BLACK



Permanently elastic wax-based coating mass (bitumen-free), cannot be painted over, contains solvents.

Permanently elastic

- Forms a tear-resistant, closed protective film (tested in accordance with DIN 53152).
- Good stone chip protection via "self-healing effect"*

Free of bitumen

- Formula based on high-quality waxes.
- Very good corrosion protection, also with thin layers (tested in accordance with DIN 50021).

Excellent adhesive properties on a wide variety of surfaces

- No running or dripping with vertical application (depending on layer thickness).
- Paint, rubber- and PVC-compatible.

Quick skin formation and drying times

- Skin formation after approximately 120 minutes is 400 µ.
- Minimal downtimes.

VOC- Compliant

- Solvent-reduced.
- Complies with the VOC content limit specified by the Volatile Organic Compound (VOC) Concentration Limits for Automotive Refinishing Products Regulations.
- Resistant to sprayed water and saltwater, weak acids and basis.
- Temperature resistance after thorough drying: -25°C to +80°C.

Thanks to the surface-active characteristic of the coating mass, stone chips are closed by moving of the UBS wax to fill the spot.

Areas of Application:

To enhance and treat all protective coatings on PVC, rubber resin, bitumen and wax-based underbodies. Highly suitable for untreated metal surfaces

Note: Before use, check spray pistol and nozzle for proper functioning. Turn can upside down and spray until valve is empty after use. Do not spray on joints, engines, transmissions and brake systems.

| Colour | Contents | Art. No. | Qty. |
|--------|----------|-------------------|------|
| Black | 1L | 892.079100 | 1/12 |

PNEUMATIC APPLICATION GUN PS 3



Art. No. 891.628

For application of sprayable sealing compound. Produces OEM finish.

- The cartridge inside the gun may be used for several weeks.
- Application areas: joint sealing and reconstruction of the original seam structure after repair.

Note: Gun must be stored with installed cartridge. Works with Sprayable Seam Sealer **Art. No. 893.226/227/228**

ACCESSORIES FOR PNEUMATIC APPLICATION GUN FOR GENERATION 4 GUN



Art. No. 891.660

Special Beading Nozzle
With internal threads



Art. No. 891.653

Beading Nozzle
With internal threads



Art. No. 891.6291

Canister O-Ring
Approx. 55 mm x 3 mm (2.165" x 0.12")



Art. No. 709.628402 ***NEW***

Cover Cap



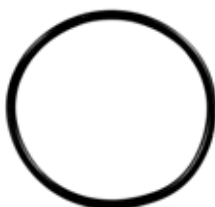
Art. No. 709.628403 ***NEW***

Nozzle



Art. No. 709.628440 ***NEW***

Cap



Art. No. 709.628428 ***NEW***

O-Ring 28



Art. No. 709.628453 ***NEW***

O-Ring 53

NOTE: all other spare parts and accessory can be purchased through special orders.

UBS GUN



For the processing of gravel guards, underbody sprays, and cavity protection products.

- Many areas of application. Processing equipment for many different applications.
- For the recreation of stock-appearing finishes on the rocker panel, wheel wells, underbody, etc.
- Safe for the user. Use the depressurizing valve to make refilling the can easy.

Note: There must always remain a can containing material in the pistol. Never put pistol away empty. Working pressure 6-4 bar (30 to 60 psi).

*Does not include nylon probes.

| Description | Art. No. | P. Qty. |
|--|-------------------|---------|
| UBS Spray Gun* | 891.110640 | 1 |
| Nylon Probe Set (1 hooked probe, nylon probe with front exit, 1 nylon probe with side exit.) ø 6 mm, length: 1.3 m, each probe | 891.110001 | |

UBS SPRAY GUN "SCHUTZ GUN"



Art. No. 891.106840

- For fast application of stone-chip and underbody protection products on a plastic, bitumen and wax basis.
- With variable spray nozzle for restoring original structure on sill panels, wheel wells, floor groups, etc.
- R 1/4" connection.
- Application pressure: 3-4 bar (40-60 psi).

PNEUMATIC GUN WITH CONTAINER



Art. No. 891.100

- For a quick application of Underbody Seal **Art. No. 892.0791**
- Contains 2 nylon probes.
- With quick-change-coupling.
- 1 Litre container.
- Nylon probes with 8 mm diameter and 1.3 m in length.
- The nylon probe has an offset end, anti-bending spring and 4 mm nozzle.
- Diameter: 6 mm, Length: 735 mm

WHEEL HUB XL CLEANING TOOL



Fast removal of rust, corrosion and other build up from the base of the wheel stud and wheel hubs.

Features:

- Strong long lasting aluminum tool design
- Unique design fits onto 1/2" drive impact wrench
- Easily used to clean over wheel studs, wheel hubs, or battery posts
- Helps improve proper torque of lug nuts for easy accurate tire balancing
- Cleans surfaces to ensure proper mating surfaces
- Knurled end for a firm grip

Applications:

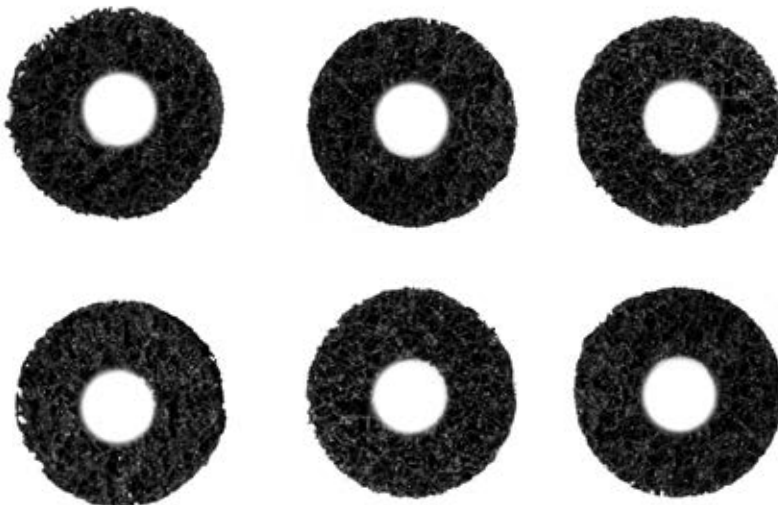
- Perfect for commercial trucks, buses, emergency and transits vehicles

Cautions:

- Always use personal protective equipment
- Always wear eye protection
- Do not hold the tool in one area for prolonged periods of time, use caution when cleaning aluminum
- Designed to operate the tool in a FORWARD (clockwise) setting so that the pad remains secure during operation
- Operating the tool in REVERSE will cause the abrasive pad to detach

| Length | Art. No. | Drive |
|--------------------|-------------------|----------|
| 4.7 inches (120mm) | 585.900005 | 1/2 inch |

HUB CLEANING XL BRUSHES SET - 6PC



Grinding discs for the wheel hub-cleaning tool.

Features:

- Designed specifically for use with the Würth XL hub-cleaning tool
- For cleaning wheel hubs and around the base of a M22 wheel stud on trucks, trailers, buses, RVs and emergency vehicles
- Material of abrasive is Polycarbonate nylon abrasive
- Max Rotation speed is 10000rpm
- Diameter is 2.3 inch (60mm)

Cautions:

- Always use personal protective equipment
- Always wear eye protection
- Do not hold the tool in one area for prolonged periods of time, use caution when cleaning aluminum
- Designed to operate the tool in a FORWARD (clockwise) setting so that the pad remains secure during operation
- Operating the tool in REVERSE will cause the abrasive pad to detach

| Art. No. | P. Qty. |
|-------------------|--------------------|
| 585.900005 | 1 tool + 5 brushes |
| 585.190418 | 6 brushes |

WHEEL HUB CLEANING TOOL

Art. No. 585.1905



Designed to clean rust, corrosion and other build up from the base of the wheel stud, wheel drums and tire rims

Features:

- Lock-On abrasive design
- Unique design to fit 1/2" impact wrench
- Includes 1x tool & 1x 2" (50mm) disc

| Size | Replacement Discs | P. Qty. | Art. No. |
|-----------|-------------------|---------|-----------------|
| 1" (40mm) | Hub Cleaning Disc | 6 | 585.2001 |
| 2" (50mm) | | | 585.2002 |

Benefits:

- Tool and abrasive designed with high strength material to quickly remove rust
- Unique design fits onto 1/2" drive impact wrench, the same tool used to remove lug nuts
- Tool fits easily over wheel studs and also cleans battery posts
- Helps improve proper torque of lug nuts and for easy accurate tire balancing

STUD CLEANING TOOL



Note: The Stud Cleaning Tool works best at slow speeds without forcing the tool to the bottom of the stud. Once at the bottom, stop, reverse and spin off at slow speeds as well.

- Designed to quickly and effectively remove dust and debris from wheel studs
- Cleans 10 studs in under 3 minutes
- Cleaning of nuts and studs recommended whenever a tire is serviced
- Adaptor included
- Uses air wrench or handheld drill
- 1 brush and 1 Allen key included

| Stud Cleaning Tools | |
|---------------------|-------------------|
| Size (mm) | Art. No. |
| 13 | 697.900004 |
| 22 | 697.900005 |

| Additional brushes for 697.900004 | | |
|-----------------------------------|--------|-----------------|
| Brush size (mm) | Colour | Art. No. |
| 12 | | 697.9012 |
| 13 | | 697.9013 |
| 14 | | 697.9014 |
| 16 | | 697.9016 |

| Additional brushes for 697.900005 | | |
|-----------------------------------|--------|-----------------|
| Brush size (mm) | Colour | Art. No. |
| 18 | | 697.9018 |
| 20 | | 697.9020 |
| 22 | | 697.9022 |

STUD CLEANING TOOL & BRUSH KIT



Art. No. 697.900015 (12 pieces)

| Kit Contents | Art No. | P. Qty. |
|--------------------------|-------------------|---------|
| 13 mm Stud Cleaning Tool | 697.900004 | 1 |
| 12 mm Brush | 697.9012 | |
| 13 mm Brush | 697.9013 | |
| 14 mm Brush | 697.9014 | |
| 22 mm Stud Cleaning Tool | 697.900005 | 1 |
| 16 mm Brush | 697.9016 | |
| 18 mm Brush | 697.9018 | |
| 20 mm Brush | 697.9020 | |
| 22mm Brush | 697.9022 | |
| Safety Glasses | - | 1 |
| Adapter & Allen Key | - | 1 |

LEAK DETECTION SPRAY



Art. No. 890.20 400 g

Finds leaks in compressed air and gas systems

Features:

- DVGW*-approved
- Easy and time saving way of finding leaks while the system is still working
- Suspect areas should be covered with a thin layer of Leak Detector
- Leaks will be indicated by the formation of foam
- Suitable for pneumatic brake systems, tires, hoses, valves, compressed air cylinders and compressor systems
- Also suitable for fittings containing gas as the Leak Detector is non-combustible

*DVGW: German Technical and Scientific Association for Gas and Water

Technical Data

| | |
|--------------------------|---|
| Application temperature: | +5 °C to +50 °C (+41 °F to +122 °F) Freezes at 0 °C (+32 °F) |
|--------------------------|---|

Note: Will not be damaged by frost. May be used after defrosting.

TIRE LEAK SEEKER



Art. No. 892.450238 238 mL

For use on tires, tubes and rims. Find the injury location fast!

Features:

- Free-rinsing
- Phosphate-free
- Biodegradable

INNER LINER SEALER



Art. No. 893.455472 472 mL

For use with all passenger, commercial, truck, farm service and O.T.R. tires

- A butyl-based sealer
- Non-flammable
- Colour: applies grey, dries black
- Can be used on both radial and bias-ply tires

TIRE FITTING LUBRICANT



Art. No. 890.1221 5 kg

For fitting of car, truck and motorcycle tires

Excellent lubrication

- Low force required for quick fitting of the tire
- Reduced wear of tire fitting equipment
- Gentle on tire bead and rim
- Better centering of the tire on the rim

Pressure-resistant, transparent fitting film

- Low consumption due to sparing use of material
- No splashing and soiling when the tire snaps onto the rim

Short aeration time

- Non-positive bonding between tire and rim shortly after fitting
- Reduces complaints and consequential costs for possible re-balancing
- Saves costs for unnecessary checks of balancing equipment by service technicians

Tire and rim care with "FORMULA G"

- Keeps tire rubber supple and assures permanent sealing between rim and tire bead
- Fights rust (non-corrosive)
- Prevents sticking of the tire to the rim

pH-neutral

- No aggressive effect on tire rubber or rim
- Skin and environment friendly

**Physiologically safe
Free of harmful solvents**

**Keeps tire bead supple and operable during storage in summer/winter
Silicon-free**

| Technical Data | |
|--------------------------------|--|
| Consistency | Creamy, solid |
| Colour | White |
| pH-value | 5.5-6.0 |
| Processing temperature | -15 °C to +50 °C (+5 °F to +122 °F) |
| Flash point | > 100 °C (212 °F) |
| Density at 20 °C | 1.04 g/cm ³ |
| Shelf life | 24 months |
| Possible material combinations | Rubber/steel Rubber/metal Rubber/plastic |

TIRE PASTE BRUSH



Art. No. 829.815561

- Convenient angled head
- Length: 20 cm (8")

TIRE LUBE



Art. No. 890.122101 3.7 L

- Tire mounting/demounting lubricant
- Ready-to-Use formula (not concentrate)

TIRE MOUNTING COMPOUND



Art. No. 890.1225 11.3 kg

This style of mounting paste has long been used to lubricate beads on truck tires by applying it around the bead with a glove. It is also being used as a packing compound to fill the void between the rim and bead to assist in the inflation of a truck tire.

Once the bead is seated, the excess material is returned to the bucket.

Can be diluted and used on passenger tires with a swab.

Features:

- Makes tire mounting/demounting easier.
- Protects tire beads from damage and helps beads to seat properly.
- This non-toxic and environmentally friendly compound also contains rust inhibitors.

BEAD SEALER



| Description | Contents | Art. No. |
|--------------------------------|----------|-------------------|
| Bead Sealer - Regular Strength | 946 mL | 890.122001 |
| Bead Sealer - High Strength | | 890.122000 |

Bead Sealer is used as a positive seal between the rim and tire to prevent air pressure loss.

Bead Sealer Thick formula is perfect for sealing small air leaks between the tire bead and the wheel.



◀ Replacement brush for bead sealer
Art. No. 879.14381

TIRE PREP PRE-BUFFING CLEANER



For removing dirt, debris and mold lubricants from the repair area prior to buffing

- Used for cleaning tubes and tubeless tires before repair
- Can be used before repair work with any vulcanizing patch or plug method
- Removes silicone and soapstone

| Description | Contents | Art. No. |
|----------------------------|----------|-------------------|
| Buffing Solution - Aerosol | 453 g | 893.122003 |
| Buffing Solution | 946 mL | 829.490996 |

VULCANIZING TIRE CEMENT



Features:

- For general purpose repair - patch to tire bonding
- Use for tube patches, small radial repairs, plugs and inserts
- Recommended for Jiffy, Magicure, Patch-n-Plug and Radial Value Patches

| Description | Contents | Art. No. |
|-------------|----------|-------------------|
| Tire Cement | 236 mL | 890.100019 |
| | 945 mL | 890.100012 |

Note: Use with any Würth repair unit or insert.

TIRE REPAIR PRODUCTS



Jiffy Gun

Art. No. 829.241

- For temporary “on the rim” tire repairs
- Approved and used by major tire companies
- Comes with small and large nozzles
- For use with Vulcanizing Plugs

Art. No. 829.213/214



Vulcanizing Plugs

| Description | Dimensions | Art. No. |
|-------------|---------------|----------------|
| Small Plug | 5/16" / 8 mm | 829.213 |
| Large Plug | 7/16" / 11 mm | 829.214 |

- Chemically vulcanizes throughout the repair
- Covers all types of injuries in passenger and truck tires
- Approved and used by major tire companies
- Insert with Jiffy Gun, **Art. No. 829.241**



Pli-Seal Plug

| Description | Dimensions | Art. No. |
|---------------|-------------------------------|----------------|
| Pli-Seal Plug | 2 1/4" x 3/8" (57 mm x 10 mm) | 829.331 |

- Five-ply “bow tie”-shaped vulcanizing plug is designed for a permanent repair of the injury
- Designed for small hole and breaks
- May be used on all tubeless tires



A.



B.

Fibre Seal Insert & Rubber Vulcanizing Insert

| Description | Dimensions | Art. No. |
|------------------------------|----------------|----------------|
| A. Fibre Seal Insert | 3 3/4" (95 mm) | 829.220 |
| B. Rubber Vulcanizing Insert | | 829.222 |

- Fibre seal inserts, grey vulcanizing gum coated, wrapped in blue protective poly with a reinforcing core of fibre
- Easy insertion forcing the injury to take the shape of the insert or the insert taking the shape of the injury
- Fibre seal inserts will vulcanize chemically or in a heat curing system
- For steel belted passenger or truck radial tires
- Qty. 50/box

Caution:

Since it is not possible to determine the extent of damage to the tubeless liner without looking inside the tire, we recommend the tire be removed from the rim and carefully inspected. It is best to fill the hole to seal out moisture and place a patch over the damaged liner to seal in the air.



Grey Gum Poly Wrapped Insert Strips

| Shape | Length | Diameter | Art. No. |
|-------|------------|------------------------|----------------|
| Round | 2" / 50 mm | 3/16" / 5 mm | 829.334 |
| Oval | 2" / 50 mm | 1/4 x 5/16" / 6 x 8 mm | 829.335 |

- Strips seat evenly throughout the injury to completely seal the liner and broken cord end
- Vulcanizing inserts are designed to “fill the injury” and may be used in radial or bias ply tires
- Inserts will vulcanize chemically or in a heat curing system



Brown Posi-Cord String

Art. No. 829.361

- Used to fill punctured holes in radial and bias ply tires. These plugs are designed for emergency repair in passenger and light truck tires.
- May be used with a patch for a permanent repair
- Durable nylon cord is resistant to the sharp steel belts in radial tires
- The cord is coated with a tacky rubber and when installed with chemical cement will allow for partial vulcanization to occur
- 4" / 102 mm long

Precautionary Info:

Puncture repairs made “On-The-Wheel” are classified as emergency repairs. If an emergency repair is made, the tire must not be run more than 160 km/ 100 miles at a speed no greater than 80 kph/ 50 mph until the tire is removed from the rim and inspected carefully and a permanent repair is made.

TIRE PATCHES



Jiffy Patches®

- Self vulcanizing Jiffy Patches
- Wafer-thin design
- Poly back assures quick release
- Non-chafing edge
- Used on radial or bias tubeless tires
- Used for crown or sidewall repair
- Used on all tubes (designed to be twice the strength of the tube)
- Use with **Art. No. 890.100019**, Activator cement

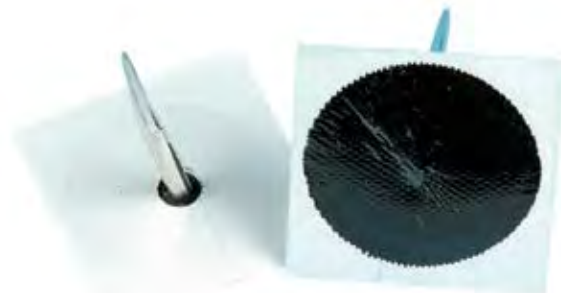
| Type | Dimensions | | Max Tube Injury | | Art. No. |
|-------------------|---------------|---------|-----------------|----|----------------|
| | Inches | mm | Inches | mm | |
| Med. Round Patch | 2 1/4 | 57 | 1 | 25 | 829.002 |
| Large Round Patch | 3 1/8 | 79 | 2 | 51 | 829.003 |
| Med. Oblong Patch | 1 7/8 x 3 3/4 | 48 x 98 | 2 | 51 | 829.005 |



Coi Radial Patches

- For "centre over injury" radial repair
- Heavy duty repair designed for high flexing
- Withstands high heat
- High strength compact design that requires less buffing
- Provides trouble-free repair for the life of the tire
- For crown, shoulder, or sidewall area for any radial tire
- Use with **Art. No. 890.100019**, Activator cement

| Type | Dimensions | | Art. No. |
|-------------------------------|------------|----------|---------------|
| | (inches) | (mm) | |
| Small Radial 10, 1 Ply Patch | 2 x 3 | 50 x 76 | 829.10 |
| Medium Radial 12, 1 Ply Patch | 2 1/4 x 4 | 57 x 102 | 829.12 |



Precautionary Info:

Puncture repair in HR (130 mph), VR (150+ mph) rated tire is generally limited to the centre of tread area. Other limits on the maximum number of repairs and the size may also apply. Due to product liability requirements, some manufacturers' policy is to remove the speed rating when a puncture repair has been made.



Magicure™ Ultra Thin Patches

- Self-vulcanizing
- Non-chafing
- Feather-edge and wafer-thin design, one piece moulded construction
- Flexible for use in any direction
- For radial or bias tubeless tires
- For crown or sidewall repair
- For use on all tubes, it is designed to be twice the strength of the tube
- Use with **Art. No. 890.100019**, Activator cement

| Type | Dimensions | | Art. No. |
|------------------|------------|----|----------------|
| | inches | mm | |
| Med. Round Patch | 2 1/8 | 55 | 829.072 |



Radial Value Patch

- Nail hole repair for radial tires
- Reinforced to handle the flex in radial tires
- May be used on either passenger radial tires or truck radial tire applications
- Use with **Art. No. 890.100019** Activator cement

| Type | Plug Dimensions | | Max Tube Injury | | No. Plies | Art. No. |
|--------------|-----------------|----------|-----------------|------|-----------|----------------|
| | (inches) | (mm) | (inches) | (mm) | | |
| Small Patch | 1 3/4 x 3 | 45 x 76 | 1/8 | 3 | 1 | 829.413 |
| Medium Patch | 2 1/4 x 4 | 57 x 102 | 1/4 | 6 | 1 | 829.414 |

Note: Conventional reinforced patches should not be used on radial tires due to the different flex characteristics in the radial tire.

Patch-N-Plug Radial & Bias Tire Repair

- The metal quill protects the plug from damage by the steel belts during installation and simplifies pulling it through the injury with pliers
- When the quill is removed, the stem completely fills the hole sealing out dirt and moisture
- The patch vulcanizes to the inner liner to permanently seal the air in the tire
- Can be used on the crown, shoulder, or sidewall areas
- Use with **Art. No. 890.100019**, Activator cement

| Type | Patch Size | | Stem Dia. | | Art. No. |
|---------------------|------------|------|-----------|------|----------------|
| | (inches) | (mm) | (inches) | (mm) | |
| Small Stem & Patch | 1 3/4 | 42 | 3/16 | 5 | 829.381 |
| Medium Stem & Patch | 2 1/4 | 57 | 5/16 | 8 | 829.382 |

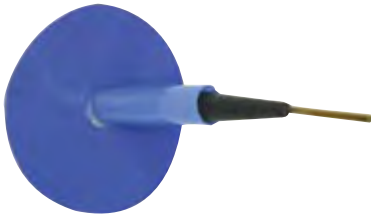
LEAD WIRE PATCHES



- Requires no special wire pulling tool
- Insert the lead wire into the injury from the inside of the tire and pull the repair through from the outside
- Both stem and the repair unit are gum coated to provide a complete bond
- Lead wire inserts will vulcanize chemically or in a heat curing system

| Patch Size Dia. | Stem | Injury Size | Art. No. |
|-----------------|-------------|----------------|----------------|
| 1" (25mm) | 1/8" (3mm) | 1/16" (1.6 mm) | 829.670 |
| 2" (50mm) | 5/16" (8mm) | 5/16" (8mm) | 829.673 |
| 2" (50mm) | 3/8" (10mm) | 3/8" (10mm) | 829.674 |

LEAD WIRE PATCHES - WRAPPED



- Requires no special wire pulling tool
- Use Carbide Cutter (Art. No. **887.914346** or Art. No. **887.914347**) to prepare the injury hole.
- Insert the lead wire into the injury from the inside of the tire and pull the repair through from the outside.
- Both stem and the repair unit are gum coated to provide a complete bond.
- Lead wire inserts will vulcanize chemically or in a heat curing system.

| Patch Size Dia. | Stem | Injury Size | Art. No. |
|-----------------|-------|----------------|-----------------|
| 1 5/8" | 7/32" | 1/16" (1.6 mm) | 879.9401 |
| 2 1/8" | 5/16" | 5/16" (8mm) | 879.9402 |
| 2 1/8" | 3/8" | 3/8" (10mm) | 879.9403 |

LEAD WIRE INSERTS - WRAPPED



- Wrapped with grey vulcanizing gum.
- For use in radial and bias ply tires
- Designed for chemical or heat vulcanization

Note: No special insert tools required. Use carbide cutter (**Art. No. 887.914346 & 887.914347**) to prepare injury channel. Install from the inside, pull through, and cut off wire.

| Sizes | Art. No. | Qty. |
|---------------------------|------------------|-------------|
| 4.5 inches, 7/32 (5.5 mm) | 879.91001 | 1 box of 20 |
| 4.75 inches 3/8 (9.5mm) | 879.91002 | |

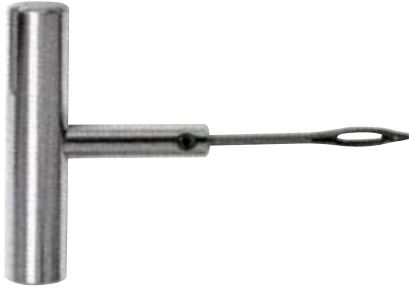
T-HANDLE SPIRAL TIRE PROBE



- For preparation of tire injury before repair.
- Also can be dipped in cement to lubricate the injury hole to prepare for insertion of the rubber filler plug.
- Chrome handle.
- Steel spiral.

| Length | Width | Spiral Dia. | Art. No. | P. Qty. | | | |
|----------|--------|-------------|----------|---------|------|-----------------|---|
| 171.5 mm | 6-3/4" | 98.4 mm | 3-7/8" | 6.35 mm | 1/4" | 715.3453 | 1 |

CHROME HANDLE SPLIT EYE NEEDLE



Art. No. 715.3455

For use in preparation of tire injury repair particularly for installing repair inserts into the injury channel of passenger and light truck tires.

| Technical Data | |
|---------------------|---------------------------------|
| Diameter of needle: | 3.91 mm |
| Handle width: | 21.95 mm |
| Length of tool: | 145 mm |
| Material: | Handle = chrome; Needle = steel |
| Handle length: | 103 mm |

The overall length of the needle is 3.50"

TIRE REPAIR TOOLS



Injury Probe

Art. No. 829.911

- Used to clean punctured area for repair



Plastic T-Handled Open Eye Needle

Art. No. 829.917

- Used to insert plug after area has been probed
- Use with **Art. No. 829.331** Magicure Pli-Seal Plug, **Art. No. 829.334/335** Insert Strips, **Art. No. 829.361** Brown Posi-Cord String



Inner Liner Scraper

Art. No. 887.914315

- Hoe style inner liner scraper
- Use together with Buffing Solution, **Art. No. 829.490996** to remove dirt, debris, and mold lubricants from the tire's inner liner prior to repair
- Plastic handle, metal blade
- Total length: 6" (15 cm)
- Handle length: 3 7/8" (9.8 cm)
- Blade length: 3" (7.6 cm)



Flexible Skiving Knife

| Overall length | Handle length | Blade length | Blade height | Art. No. |
|----------------|---------------|-----------------|---------------|-------------------|
| 8" (20 cm) | 4" (10.2 cm) | 3 7/8" (9.8 cm) | 1/2" (1.3 cm) | 696.800900 |

- Used for cutting rubber in preparation and finishing of tire repair
- Wooden handle, metal blade

TIRE REPAIR TOOLS



Brass Tire Brush

| Overall length | Brush area | Art. No. |
|----------------|---|-----------------|
| 7" (17.8 cm) | 6 x 9 rows, 1 1/4" x 2 1/4" (3.2 cm x 5.7 cm) | 697.9000 |

- Small brass sidewall tire brush
- Wooden handle



Wire Tire Brush

Art. No. 697.4



Small Cleaning Wire Brush

Art. No. 714.83111



Small Cleaning Brass Wire Brush

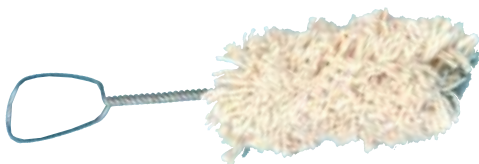
Art. No. 714.83112



Ball Bearing Stitcher

| Dimensions | Art. No. |
|----------------|----------------|
| 3/16" x 1 1/2" | 829.914 |

- Used to roll on edges of the patch to ensure proper seal with the tire surface



Tire Lube Application Swab

| Dimensions (length) | Art. No. |
|---------------------|------------------|
| 11" (280 mm) | 829.81556 |



Tire Paste Brush

| Dimensions (length) | Art. No. |
|---------------------|-------------------|
| 8" (20 cm) | 829.815561 |

- Wooden handled tire fitting paste brush
- Convenient angled head keeps hands clean while applying tire fitting paste to bead
- Use with Würth Tire Fitting Paste, **Art. No. 890.1221**

WHEEL & TIRE TOOLS



Valve Insertion Tool

Art. No. 715.5404

Used for tubeless tire valves

- Use to install Prefix 879 (rubber valve stems)
- Length: 280 mm (11")



Valve Core Removal Tool

Art. No. 469.715175

- For use with Schrader valves
- Length: 3"



Valve Core Removal Tool

Art. No. 715.54003

- Removes tire valve cores from standard bore tire valves
- Screwdriver-style handle
- Dimensions: 11.1 cm x 1.7 cm



Valve Core Torque Tool

Art. No. 715.54004

- 4 inch pounds
- Length: 12 cm
- Handle length: 7.5 cm
- Diameter: 2 cm



Tire Tread Depth Gauge

Art. No. 879.998

- Use to determine the remaining tread depth on passenger and light truck tires
- Indicator bar marked with both inches (1/32" increments) and millimetres
- Dimensions: 0.5" x 1" x 3 3/8"

WÜRTH VALVE INSERTION REMOVAL TOOL



Innovative Tool for Removal and Insertion of Tire Valves

Features:

- TPMS compatible
- Ergonomic design
- Lightweight aluminum handle
- Replaceable tool head
- Grooved, non marking rubber cushion

Benefits:

Würth VIRT (Valve Insertion Removal Tool) is the only tool in the market with quick coupling design to remove valve stems easily without the need to thread onto the valve

- Time saving
- Extra light aluminum handle for easy handling
- Ergonomic rubber oval shape is suitable for all types of rims and adapts to all angles
- Engineered to last 7500 cycles without wear of the tool
- Grooved rubber finish prevents damage to the rim
- Thanks to its exclusive head design, there is no need to twist the tool for a safe valve insertion into the rim.

| Description | Dimensions | Art. No. | P. Qty. |
|-------------|------------|-------------|---------|
| Würth VIRT | L-30cm | 715.5404602 | 1 |

Replacement head

715.5404603



Use Art. No. 714.6341 pin punch set to replace tool head

CARBIDE BUFFING WHEEL



- Arbor hole: 3/8" (9.5 mm)
- Buffing wheel adapter dimensions: Shank dia: 1/4", Length: 1 1/2"
- Max. RPM: 2,500

| Description | Art. No. |
|-------------------------------------|----------|
| Buffing Wheel 2 1/2" | 829.320 |
| Buffing Wheel Adapter (3/8" x 1/2") | 829.3245 |

CARBIDE CUTTERS



- When a tire gets a puncture, the puncturing object is removed and a carbide cutter is used to “ream out” the injury channel to a round, uniform size while removing broken cables and damaged rubber
- Once the injury channel has been reamed out to this round, uniform size, the corresponding repair insert can be installed to repair the puncture, completely sealing the injury channel
- Maximum recommended operating speed: 2,500 RPM

| Description | Size | Length | Photo | Art. No. |
|--------------------------------|-------|--------|-------|-------------------|
| Carbide Cutter | 7/32" | 3" | A | 887.914346 |
| Carbide Cutter, with tri-shank | 5/16" | 4" | B | 887.914347 |

ADAPTER FOR CARBIDE CUTTER



Quick change adapters

| Description | Length | Photo | Art. No. |
|--|--------|-------|-------------------|
| Adapter for Carbide Cutter with 1/4" (6.3 mm) shank | 2" | A | 614.176990 |
| Adapter for Carbide Cutter with 5/16" (7.9 mm) shank | 2" | B | 614.176991 |

SKIVING BRUSH



- High carbon wire
- Stainless steel shaft
- Wire diameter: 0.005" (+/- 0.001")

| Length | Brush Length | Brush Diameter | Shank Dia. | Max. RPM | Art. No. |
|--------|--------------|----------------|------------|----------|------------------|
| 3" | 1" | 3/8" | 1/4" | 2,000 | 879.14336 |
| 3" | 1" | 1/2" | | | 879.14337 |

TIRE REPAIR KIT



Art. No. 829.100

Contents: 50 - 4" Fat Brown Inserts, Spiral Cement Probe, Split-Eye Insert Tool with Plastic Handle, 1 jar lubricant, 1 knife, 1 repair booklet

LEAD WHEEL WEIGHTS



EN Series (Polyester Coated)
Prefix 830.200
10g to 50g

- Applications include Mercedes, Honda and Acura (from 1980 to 1989), Audi (from 1997) and VW (from 1997)
- Also used on many aftermarket alloy wheels with thin rim flanges



MCN Series (coated) *
Prefix 830.203
1/4 oz to 3 oz

- Used on most domestic vehicles equipped with alloy rims
- Applications include many brands like Buick, Chevrolet, Chrysler, Ford, Mazda, GM



GY-Universal Steel (uncoated)
Prefix 830.5
1/4 oz to 5 oz

- Special Honda weight used on passenger car steel wheels



LHS Series (Plastic Coated)
Prefix 830.303
1/4 oz to 3 oz

- CHRYSLER LH platform (Intrepid, Concorde, LHS, 300M) Mini Van models Neon, 2001 PT Cruiser Sebring & Stratus sedans + convertible.



REG Series (uncoated) *
Prefix 830.111
.25 oz to 4 oz

- The most common weight for steel wheels. Will fit standard-width rim flange thickness passenger car steel wheels with 13" - 17" wheel size.



AWN Series (coated) *
Prefix 830.205
1/4 oz to 3 oz

- Use on domestic vehicles equipped with alloy rims that were manufactured prior to 1995.
- Applications include many brands like Acura, Buick, Chevrolet, Chrysler, Ford, Mazda, GM



IAW Series (coated) *
Prefix 830.207
5g to 60g

- Used on many new Ford models, on most European vehicles and certain Asian vehicles equipped with alloy wheels.
- Applications include many brands like Audi, BMW, Cadillac, Jaguar, KIA, Nissan, Toyota, VW and Volvo



FN Series (coated) *
Prefix 830.209
5 g to 60 g

- Used on most Japanese vehicles equipped with alloy wheels.
- Applications include many brands like Acura, Honda, Infiniti, Lexus, Nissan and Toyota

Note: The series denoted with * contain updated information and product photos

Note: It is very important that only the LH series weight is used on the above flanges. Other weights can cause slow tire pressure loss or fly off the wheel due to improper fit.

POLYESTER-COATED ZINC WHEEL WEIGHTS

- Lead-free alternative is environmentally friendly and poses no health risks
- Retains the familiar shape and feel of a conventional wheel weight
- Polyester coating completely encapsulates the weight, preventing premature corrosion to aluminum alloy wheels
- Attractive metallic finish

- Excellent for replacement of factory installed coated weights
- OEM approved
- Over 1500 hours of salt spray resistance



FNZS Series
Prefix 832.209
5g to 50g

- Acura, Daewood, Honda, Infiniti, Isuzu
- Lexus, Mazda, Nissan, Toyota



IAWZS Series
Prefix 832.207

- Audi, BMW, Catera, GEO, Hyundai, Jaguar up to 1996, Kia, Mitsubishi, Subaru, Suzuki, Volvo



MCZS Series
Prefix 832.203
1/4 oz to 2 oz

- Ford all from 1985, Chrysler all from 1990-1997, GM increasingly used starting in 1988.

STEEL WHEEL WEIGHTS

- Steel wheel weights offer you an environmentally responsible alternative to lead weights
- A large amount of lead weights are thrown off of wheels every year and contaminate the environment (In the state of Michigan alone, an estimated 60 metric tons of lead is deposited on the streets each year), or they are not removed at the end of a vehicle's life for recycling and contaminate the environment that way

- Lead weights have already been banned in several US states (California, Washington, Maine), and Europe
- These weights do not sacrifice retention or corrosion resistance
- Product type is displayed on the clip for easy identification
- Clips are very precise, and their exact fit to the rim allows for better weight retention
- Rounded clip end keeps the rim from being scratched
- Superior coating for corrosion resistance



TFe Series
Prefix 833.110
5 g to 60 g

- All light truck Chrysler from 1989; all Ford to 1984; all GM to 1987, some from 1988-2000



PFe Series
Prefix 833.111
1/4 oz to 3 oz

- For use on passenger car steel wheels



MCFe Series
Prefix 833.203
1/4 oz to 3 oz

- All Chrysler from 1990-1997, some from 1998; all Ford from 1985; most GM from 1988, all GM from 2000 (except C5 Corvette)

| Weight (oz.) | Art. No. | P. Qty. |
|--------------|-------------|---------|
| 1/4 | 833.110.025 | 25 |
| 1/2 | 833.110.050 | |
| 3/4 | 833.110.075 | |
| 1 | 833.110.100 | |
| 1 1/4 | 833.110.125 | |
| 1 1/2 | 833.110.150 | |
| 1 3/4 | 833.110.175 | |
| 2 | 833.110.200 | |
| 2 1/4 | 833.110.225 | |
| 2 1/2 | 833.110.250 | |
| 2 3/4 | 833.110.275 | |
| 3 | 833.110.300 | |

| Weight (oz.) | Art. No. | P. Qty. |
|--------------|-------------|---------|
| 1/4 | 833.111.025 | 25 |
| 1/2 | 833.111.050 | |
| 3/4 | 833.111.075 | |
| 1 | 833.111.100 | |
| 1 1/4 | 833.111.125 | |
| 1 1/2 | 833.111.150 | |
| 1 3/4 | 833.111.175 | |
| 2 | 833.111.200 | |
| 2 1/4 | 833.111.225 | |
| 2 1/2 | 833.111.250 | |
| 2 3/4 | 833.111.275 | |
| 3 | 833.111.300 | |

| Weight (oz.) | Art. No. | P. Qty. |
|--------------|-------------|---------|
| 1/4 | 833.203.025 | 25 |
| 1/2 | 833.203.050 | |
| 3/4 | 833.203.075 | |
| 1 | 833.203.100 | |
| 1 1/4 | 833.203.125 | |
| 1 1/2 | 833.203.150 | |
| 1 3/4 | 833.203.175 | |
| 2 | 833.203.200 | |
| 2 1/4 | 833.203.225 | |
| 2 1/2 | 833.203.250 | |
| 2 3/4 | 833.203.275 | |
| 3 | 833.203.300 | |



AWFe Series
Prefix 833.205
1/4 oz to 3 oz

- All Chrysler to 1989; all Ford to 1984; all GM from 1987, some from 1988 to 2000



IAWFe Series
Prefix 833.207
5g to 60g

- Audi; BMW; Geo; Hyundai; Jaguar to 1996; Kia; Mitsubishi; Subaru; Suzuki; Volvo



FNFe Series
Prefix 833.209
5g to 60g

- Acura since 1990; Daewoo since 1999; Honda since 1989; Infiniti since 1990; Isuzu since 1997; Lexus since 1990; Mazda since 1990; Nissan since 1990; Toyota since 1990

| Weight (oz.) | Art. No. | P. Qty. |
|--------------|-------------|---------|
| 1/4 | 833.205.025 | 25 |
| 1/2 | 833.205.050 | |
| 3/4 | 833.205.075 | |
| 1 | 833.205.100 | |
| 1 1/4 | 833.205.125 | |
| 1 1/2 | 833.205.150 | |
| 1 3/4 | 833.205.175 | |
| 2 | 833.205.200 | |
| 2 1/4 | 833.205.225 | |
| 2 1/2 | 833.205.250 | |
| 2 3/4 | 833.205.275 | |
| 3 | 833.205.300 | |

| Weight (g) | Art. No. | P. Qty. |
|------------|-------------|---------|
| 5 | 833.207.005 | 25 |
| 10 | 833.207.010 | |
| 15 | 833.207.015 | |
| 20 | 833.207.020 | |
| 25 | 833.207.025 | |
| 30 | 833.207.030 | |
| 35 | 833.207.035 | |
| 40 | 833.207.040 | |
| 45 | 833.207.045 | |
| 50 | 833.207.050 | |
| 55 | 833.207.055 | |
| 60 | 833.207.060 | |

| Weight (g) | Art. No. | P. Qty. |
|------------|-------------|---------|
| 5 | 833.209.005 | 25 |
| 10 | 833.209.010 | |
| 15 | 833.209.015 | |
| 20 | 833.209.020 | |
| 25 | 833.209.025 | |
| 30 | 833.209.030 | |
| 35 | 833.209.035 | |
| 40 | 833.209.040 | |
| 45 | 833.209.045 | |
| 50 | 833.209.050 | |
| 55 | 833.209.055 | |
| 60 | 833.209.060 | |

LIGHT TRUCK WHEEL WEIGHTS



T Series (coated) *
Prefix 830.110
.25 oz to 3 oz

- Used on most domestic light trucks equipped with decorative and larger thickness steel wheels and most light-trucks equipped with alloy wheels



I-7 Series
Prefix 831.100
2 oz to 8 oz

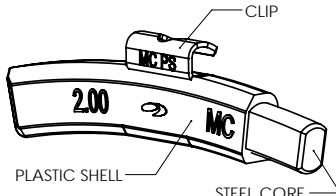
- I-7 uncoated weights for medium and heavy duty trucks equipped with tube type tires.



Tal-S Series
Prefix 831.200
2 oz to 8 oz

- Tal-S Polyester coated for heavy trucks equipped with Alcoa or Accuride tubeless alloy wheels.

PLASTEEL® WHEEL WEIGHTS



0.25 to 3 oz



5 to 60 g



Benefits:

- Plastic overmold acts as a buffer and vibration dampener, allowing for easy application without damage
- OEM recommended coating on steel core and clip surpasses stringent industry standards providing excellent corrosion resistance
- Precise fit against the wheel without gaps and gives the look of a traditional lead weight

A revolutionary steel core clip-on wheel weight encased in a plastic overmold. Lead weights are a major cause of damage to alloy wheels. The reaction, called galvanic corrosion, induced by the contact of lead with the aluminum of the wheel, causes discoloration and pitting of the alloy. This is completely eliminated with Plasteel®.

Features:

- Plastic overmold made from Polypropylene
- Steel core made of AISI 1006 Steel
- Available in six alloy series
- Meets all OEM requirements, having passed specific laboratory tests, from rim retention to chemical resistance, and meets every car manufacturers quality standards
- Fully recyclable
- Scratchless plastic overmold



AW Series
1/4 oz to 3 oz

- Chrysler (all up to 1989), Ford (all from 1984), GM (all up to 1987. Decreasingly used from 1988 to 2000)



MC Series
1/4 oz to 3 oz

- Chrysler (all from 1990 to 1997. Some models changed to LHS in 1998), Ford (all from 1985), GM (increasingly used starting in 1988. As of 2000, only C5 Corvette remains AWS)



T Series
1/4 oz to 3 oz

- Suburban, Yukon, Tahoe (from 2000), Denali & Escalade (use MCS for 2000), Ford (Expedition from 1997, F-100, F-150 from 1997), Lincoln (Navigator from 1998)

| Weight (oz.) | Art. No. | P. Qty. |
|--------------|-------------|---------|
| 1/4 | 836.205.025 | 25 |
| 1/2 | 836.205.050 | |
| 3/4 | 836.205.075 | |
| 1 | 836.205.100 | |
| 1 1/4 | 836.205.125 | |
| 1 1/2 | 836.205.150 | |
| 1 3/4 | 836.205.175 | |
| 2 | 836.205.200 | |
| 2 1/4 | 836.205.225 | |
| 2 1/2 | 836.205.250 | |
| 2 3/4 | 836.205.275 | |
| 3 | 836.205.300 | |

| Weight (oz.) | Art. No. | P. Qty. |
|--------------|-------------|---------|
| 1/4 | 836.203.025 | 25 |
| 1/2 | 836.203.050 | |
| 3/4 | 836.203.075 | |
| 1 | 836.203.100 | |
| 1 1/4 | 836.203.125 | |
| 1 1/2 | 836.203.150 | |
| 1 3/4 | 836.203.175 | |
| 2 | 836.203.200 | |
| 2 1/4 | 836.203.225 | |
| 2 1/2 | 836.203.250 | |
| 2 3/4 | 836.203.275 | |
| 3 | 836.203.300 | |

| Weight (oz.) | Art. No. | P. Qty. |
|--------------|-------------|---------|
| 1/4 | 836.110.025 | 25 |
| 1/2 | 836.110.050 | |
| 3/4 | 836.110.075 | |
| 1 | 836.110.100 | |
| 1 1/4 | 836.110.125 | |
| 1 1/2 | 836.110.150 | |
| 1 3/4 | 836.110.175 | |
| 2 | 836.110.200 | |
| 2 1/4 | 836.110.225 | |
| 2 1/2 | 836.110.250 | |
| 2 3/4 | 836.110.275 | |
| 3 | 836.110.300 | |

PLASTEEL® WHEEL WEIGHTS



FN Series 5 g to 60 g

- Acura (since 1990), Daewoo (since 1999), Honda (since 1989), Infiniti (since 1990), Isuzu (since 1997), Lexus (since 1990), Mazda (since 1990), Nissan (since 1990), Toyota (since 1990)

| Weight (g.) | Art. No. | P. Qty. |
|-------------|-------------|---------|
| 5 | 836.209.005 | 25 |
| 10 | 836.209.010 | |
| 15 | 836.209.015 | |
| 20 | 836.209.020 | |
| 25 | 836.209.025 | |
| 30 | 836.209.030 | |
| 35 | 836.209.035 | |
| 40 | 836.209.040 | |
| 45 | 836.209.045 | |
| 50 | 836.209.050 | |
| 55 | 836.209.055 | |
| 60 | 836.209.060 | |

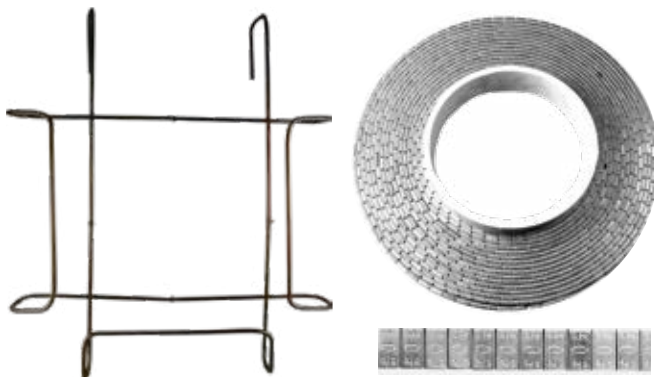


IAW Series 5 g to 60 g

- Audi, BMW Catera, Geo, Hyundai, Jaguar (up to 1996), Kia, Mitsubishi, Subaru, Suzuki, Volvo

| Weight (g.) | Art. No. | P. Qty. |
|-------------|-------------|---------|
| 5 | 836.207.005 | 25 |
| 10 | 836.207.010 | |
| 15 | 836.207.015 | |
| 20 | 836.207.020 | |
| 25 | 836.207.025 | |
| 30 | 836.207.030 | |
| 35 | 836.207.035 | |
| 40 | 836.207.040 | |
| 45 | 836.207.045 | |
| 50 | 836.207.050 | |
| 55 | 836.207.055 | |
| 60 | 836.207.060 | |

STEEL WHEEL WEIGHTS ON A ROLL



| Art. No. | Segment Size | Segments/Roll | Weight (lbs.) |
|------------|--------------|---------------|---------------|
| 833.14.320 | 1/4 OZ | 1272 | 20 |
| 833.14.420 | 1/2 OZ | 640 | 20 |
| 955.1020 | Hanging Rack | | |
| 955.10200 | Stand | | |

Note: Articles in red are Special Orders only!

CW: Grey liner adhesive for cold weather.

Advantages

- Fully recyclable
- Only one SKU to carry
- No waste
- Easy to dispense (Simply rip off desired weights)
- Corrosion-tested
- Economical alternative to composite weights

Coating:

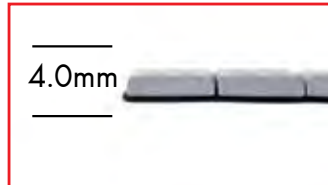
- The coating is compliant with most stringent automobile manufacturer's requirements.
- It protects against corrosion, resists discolouration from the sun and car-wash plus much more.
- In addition, to keeping your car looking good, the colour matches that of most wheels commonly use.
- Coating protects wheels
- Uncoated wheel weights are a major cause of unsightly discolouration and degradation of the wheels. Würth's coated wheel weights feature a highly resistant and durable polyester coating which completely encapsulates the weight, thus assuring the protection of the wheel surface. We strongly recommend that these weights be used as they offer continued protection.

Adhesive lining:

Well suited for any vehicle but it offers exceptional adherence in cold temperatures. No need to pre-heat the wheel. Most adhesives are inefficient below 40°F but the CW maintains an optimal bonding power at temperatures as low as 15°F. Save time and money by eliminating the need to heat the wheel when temperatures are below 40°F.

- Sticks on wheels as cold as 15°F (-10°C)
- Save time and money by eliminating the need to heat
- White liner, grey foam

WHEEL WEIGHTS - ADHESIVE ZINC



Adhesive Zinc Wheel Weight Roll

Art. No. 830.14.735

- 1 000 5-gram segments (5 kg total weight)
- Powder-coated surface and dark adhesive tape that is thermally stable up to 180 °C (356 °F)
- Saves time, as lengthy searching and sorting of individual weights is not necessary
- Can be used with any aluminum rims
- Dimensions: 19mm x 13 mm x 4 mm (3/4" x 1/2" x 3/16")



COMPOSITE WHEEL WEIGHT SYSTEM



Features:

- Metal polymer mix lead-free adhesive weight
- Designed to have less impact on the environment
- Corrosion-free feature improves wheel and overall vehicle appearance
- Water resistant, heat resistant, chipping resistant, high pressure car wash resistant, and salt spray
- Precision cut-to-length weights improve balance and vehicle ride quality
- Flexible, conformable material that will apply to any size rim
- Cutting tool measures to exact gram.
- Low Profile - 4mm in height and 7mm in width

| Description | Art. No. |
|--|------------------|
| Composite wheel weight - 20 lb roll | 835.61405 |
| Wheel Weight Kit | 835.61400 |
| Cutter for composite wheel weight roll | 695.2000 |

Wheel Weight Kit will include:

- 1 Cutter
- 1 Stand
- 3 Rolls (835.61405)



ADHESIVE WHEEL WEIGHT ROLL CUTTER AND STAND



Art. No. 830.14991

Holder with cutting device for adhesive wheel weight rolls.

- Unrolling and cutting device for adhesive wheel weight rolls.
- Locking mechanism permits fast, intuitive operation.
- Easily view dispensed weights and cut through tape only.
- Holes provided for tabletop and wall mounting.
- Matte black, powder-coated design for daily workshop use.
- Cutting blade, cutting surface and cutting lever can be replaced (Special order).

Contents:

- Locking clip for rolls
- 2 cutting knives

Compatible with 5 gram Prefix 830 & 833 wheel weight rolls.

ADHESIVE WHEEL WEIGHT ROLL STAND



Art. No. 830.14990

Holder for 5-6kg/13lb adhesive wheel weight rolls.

- Suitable for table or wall-mounting.
- Compact design
 - Space-saving mounting directly at the workstation.
 - Mounting only requires 8 x 16cm area.
- Fast and uncomplicated work due to storage at the workstation.
- Store weights with or without outer carton.
- Powder-coated design for daily workshop work.
- Delivered without fastening materials




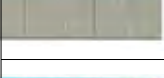
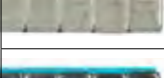

Compatible with Prefix 830 wheel weight rolls only!

ADHESIVE WHEEL WEIGHT ROLLS

Adhesive weights on a convenient roll

Features:

- With galvanized, additionally powder-coated surface and dark adhesive tape that is thermally stable up to 180°C
- Can be used with any aluminum rims
- Saves time, as lengthy searching and sorting of individual weights is not necessary
- Pull tab edge for less risk of contaminating the tape when removing the liner

| Product | Roll Art. No. | Segment Size | Segment Dimension | Segment Coating | Material | Roll Size | Roll Adhesive | Roll P. Qty. |
|--|-------------------|--------------|---------------------|-----------------|----------|-----------|---------------|--------------|
|  | 830.905001 | 1/4 oz. | 12mm x 19mm x 4.5mm | Clear Zinc | Steel | 13 lbs. | S | 1 |
|  | 830.906201 | | | Grey | | | | |
|  | 830.906225 | | | Black | | | | |
|  | 830.906501 | 1/2 oz. | 24mm x 19mm x 4.5mm | Grey | | 6 kg | | |
|  | 830.906001 | 5 g | 11mm x 19mm x 3.5mm | Grey | | | | |
|  | 830.906101 | | | Black | | | | |

Adhesive S = Cold Weather

Adhesive Weights now come in 3 easily distinguishable colours!








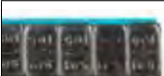


ADHESIVE WHEEL WEIGHT STRIPS

Adhesive weights on an easy to use strip!

Features:

- Unconnected individual weights, no cutting edges during cut-off
- With dark adhesive tape that is thermally stable up to 180°C
- A clean peel premium cold weather tape will not break apart or leave sticky residue
- Pull tab edge for less risk of contaminating the tape when removing the liner

| Product | Strip Art. No. | Segment Size | Segment Dimension | Segment Coating | Material | Strip Description | Strip Adhesive | Strip P. Qty. | | | | | |
|---|-------------------|---------------------|--|-----------------|----------|---|----------------|---------------|--|---|--|---|----|
|  | 830.901105 | 5/10 g | 5g: 18mm x 19mm x 3.5mm; 10g: 26mm x 19mm x 3.5mm | Grey | Zinc | 5g/10g alternating segments, 45g total strip weight | N | 50 | | | | | |
|  | 830.909025 | 1/4 oz. | 12mm x 19mm x 4.5mm | Clear Zinc | Steel | 12 x 1/4 oz individual segments on a strip, 3 oz total weight | | N | 48 | | | | |
|  | 830.911025 | | | Grey | | | | | | | | | |
|  | 830.909125 | | | Black | | | | | | | | | |
|  | 830.905150 | 1/2 oz. | 24mm x 19mm x 4.5mm | Grey | | Steel | | | 6 x 1/2 oz individual segments on a strip, 3 oz total weight | N | 50 | | |
|  | 830.910150 | | | Black | | | | | | | | | |
|  | 830.911105 | 11mm x 19mm x 3.5mm | 11mm x 19mm x 3.5mm | Grey | | | | | Steel | | 12 x 5g individual segments on a strip, 60g total weight | N | 50 |
|  | 830.911250 | | | Black | | | | | | | | | |

Adhesive Weights now come in 3 easily distinguishable colours!



Adhesive N = Premium Cold Weather
Adhesive S = Cold Weather

ADHESIVE WHEEL WEIGHTS



- Used on all after-market sport wheels
- For passenger cars and motorcycles
- Ideal for racing and off road applications
- No cutting and pre-contouring
- Strong adhesive backing strip
- Special adhesive offers high performance in cold temperatures
- Weights can be applied to wheels in cold temperatures, down to -10 °C (15 °F).
- Save time and money by eliminating the need to heat the wheel in cool temperatures



| Img. | Desc. | Material | Weight/segment | Dimensions (strip) | Dimensions (segment) | Temp. Resistance | Art. No. | P. Qty. (strips) |
|----------|--------------------------------------|--------------|---------------------|--------------------|--|------------------|---------------------|------------------|
| A | Standard, reduced middle web | Coated Lead | 2 oz. | 1 1/4" x 6" | 1 1/4" x 7/8" x 1/4" | 100 °C (225 °F) | 830.14.330 | 15 |
| B | Standard profile, reduced middle web | Coated Lead | 1/2 oz. | 6" | 3/4" x 7/16" x 1/4" | | 830.14.315 | 30 |
| C | Standard profile, reduced middle web | Coated Lead | 1 oz. | 6" | 3/4" x 15/16" x 1/4" | | 830.14.320 | 15 |
| D | Narrow profile, pre-cut | Coated Lead | 1/4 oz. | 6" | 1/2" | | 830.014.60 | 30 |
| E | Low profile, pre-cut | Coated Lead | 1/4 oz. (7 g) | 6" | 3/16" x 3/4" x 1/2" | 80°C (175 °F) | 830.14.305 | 30 |
| | | | | | | | 830.14.30552 | 52 |
| F | Reduced middle web | Coated Zinc | 3 x 5 g 3 x 10 g | 105 x 15 x 5.5mm | 1.5 x 1.2 x 0.6 cm 1.5 x 2.1 x 0.6 cm | 180 °C (356 °F) | 830.14.60 | 10 |
| G | Low profile pre-cut, Black | Coated Lead | 1/4 oz. | 3/4" x 6" | 3/4" x 7/16" x 1/8" | 80°C (175 °F) | 830.14.3100 | 30 |
| H | Low profile, pre-cut, Black | Coated Steel | 5 g | 5 1/2" | 3/4" x 7/16" x 1/8" | | 830.14.30501 | 30 |
| I | Low profile, pre-cut | Coated Lead | 1/4 oz. | .1562" x .75" | 1/2" x 11/16" x 3/32" | -30°C -100°C | 830.14.3052 | 52 |
| J | Low profile, pre-cut | Coated Steel | 1/4 oz. | .75" | .80 x .050 x .019 cm | -30°C -100°C | 833.14.3050 | 48 |
| K | Low profile, pre-cut | Coated Steel | 1/4 oz. | 7 1/4" | 3/4" x 5/8" x 1/8" | 100 °C (225 °F) | 830.14.3050 | 30 |

WHEEL WEIGHT - ADHESIVE



CC Series (Coated) *
Prefix 830.100
5g to 60g

- Original part of Porsche, VW, Volvo
- Low profile premium zinc adhesive wheel weight can be used where standard profile does not provide sufficient clearance area to brake and steering parts
- OEM quality coating material & highest corrosion protection
- Siliconized liner for quick removal with adhesive strength of at least 43lbs/in²



Standard Profile Premium Zinc Adhesive Weight *
Prefix 830.16
5g to 60g

- Features Grid-Bridge technology (TM) whereby the segments are connected with two narrow steps for easier and faster mounting.
- Used by OEMs like Audi, Daimler, Chrysler and Land Rover
- OEM quality coating material & highest corrosion protection
- Siliconized liner for quick removal adhesive strength of at least 43lbs/in²

PRE-SEGMENTED ADHESIVE WEIGHTS



*Not actual size

| Segment Weight | Material | Finish | Adhesive | Art. No. | P. Qty. |
|----------------|----------|--------------------|----------|-------------------|---------|
| 5 g | Zinc | Silver-Grey Coated | S | 830.900005 | 100 |
| 10 g | | | | 830.900010 | |
| 15 g | | | | 830.900015 | |
| 20 g | | | | 830.900020 | |
| 25 g | | | | 830.900025 | |
| 30 g | | | | 830.900030 | 50 |
| 35 g | | | | 830.900035 | |
| 40 g | | | | 830.900040 | |
| 45 g | | | | 830.900045 | |

Adhesive S = Cold Weather

Features:

- Unconnected individual weights
- With dark adhesive tape that is thermally stable up to 180°C
- Will fit the tightest constraints for calliper clearance: only 4mm tall
- A clean peel premium cold weather tape will not break apart or leave sticky residue
- Pull tab edge for less risk of contaminating the tape when removing the liner
- Curved

TIRE BALANCING BEADS



Internal Wheel & Tire Balancing Compound

Due to its patented electrostatic technology, Würth Balancing Beads hold the out of balance position inside the tire when the vehicle moves slowly, stops, starts and turns. Würth Balancing Beads provide a 100% true balance of not only the tire and wheel, but the entire wheel assembly.

Advantages:

- For use with all tubeless and tube-type tires
- Use on all wheel positions
- Replaces standard lead wheel weights
- Better for the environment, as lead weights often falls off
- Safer for technicians
- Continually readjusts to the balancing point of the wheel
- Reduces vibrations that result in chassis and suspension wear
- Increased tire foot traction improving handling
- Decreased tire wear
- Reduced rolling resistance leading to increased fuel efficiency
- Prolonged life of wheel assembly parts by cutting down on wear and tear due to excessive vibrations
- No dust or dust related problems
- Increased fuel economy
- Will not contaminate the bead seating area

Features:

- Glass beads are coated to resist the effects of moisture or tire lube
- Won't clump
- Contains no powders
- TPMS Compatible
- Allows the use of an Air Blaster
- Will not react with any known chemicals

*Each Bag Includes

- 1 Valve Cap &
- 1 Valve Core Stem

*Sizes can be combined to suit application needs

*Always refer to application charts



| Recommended Applications | Weight | Number of Sachets per Package | Art. No. | P. Qty. | Case Art. No. | Case Qty. |
|-------------------------------------|--------|-------------------------------|------------|---------|---------------|---------------------|
| Motorcycles/ATV | 1 oz.w | 4 | 822.016301 | 1 | 822.016301B | 40 bags/160 sachets |
| | 2 oz. | | 822.016302 | | 822.016302B | 32 bags/128 sachets |
| | 3 oz. | | 822.016303 | | 822.016303B | 24 bags/96 sachets |
| Passenger Vehicles/ Light trucks | 4 oz. | 1 | 822.016304 | 1 | 822.016304B | 92 bags/sachets |
| | 6 oz. | | 822.016306 | | 822.016306B | 64 bags/sachets |
| | 8 oz. | | 822.016308 | | 822.016308B | 52 bags/sachets |
| | 10 oz. | | 822.016310 | | 822.016310B | 40 bags/sachets |
| | 12 oz. | | 822.016312 | | 822.016312B | 36 bags/sachets |
| Light - Medium & Heavy Trucks | 14 oz. | 1 | 822.016314 | 1 | 822.016314B | 42 bags/sachets |
| | 16 oz. | | 822.016316 | | 822.016316B | 28 bags/sachets |
| | 20 oz. | | 822.016320 | | 822.016320B | 24 bags/sachets |

Note: For proper installation, it is recommended to install balancing beads with the Würth Injector Tool - Art. No. 822.0200

Use:

1. Open the outer bag
 2. Remove the inner bag and place the pre-measured inner bag inside the tire before inflating
 3. The pressure inside the tire will collapse the bag containing the beads, or it will break soon after inflation
 4. The beads will automatically balance the complete wheel assembly
- To reduce the possibility of a valve leak, it is recommended to use the provided Würth valve core and a self-sealing valve cap
 - For inner tube-type tires, inject the beads through the valve stem using the approved Würth Injector Tool and follow safety instructions

TIRE BALANCING BEADS

Application Chart by Tire

For Passenger Vehicles, Light and Medium Trucks

| Tire Size | 1/2 Ton | 1 Ton + |
|-----------------------------------|---------|---------|
| Pass. vehicle/ Light Truck | | |
| 14" | | |
| 215/75R14 | 3 oz. | 4 oz. |
| 205/70R14 | 3 oz. | 4 oz. |
| 215/70R14 | 3 oz. | 4 oz. |
| 15" | | |
| 700R15 | | 4 oz. |
| 7.50R15 | | 6 oz. |
| 8.25R15 | | 6 oz. |
| 9R15 | | 8 oz. |
| 10R15 | | 8 oz. |
| 215/80R15 | 3 oz. | 4 oz. |
| 195/75R15 | 3 oz. | 4 oz. |
| 205/75R15 | 3 oz. | 4 oz. |
| 215/75R15 | 3 oz. | 4 oz. |
| 225/75R15 | 4 oz. | 4 oz. |
| 235/75R15 | 4 oz. | 4 oz. |
| 245/75R15 | 3 oz. | 4 oz. |
| 255/75R15 | 3 oz. | 4 oz. |
| 265/75R15 | 3 oz. | 4 oz. |
| 235/70R15 | 3 oz. | 4 oz. |
| 245/70R15 | 3 oz. | 4 oz. |
| 255/70R15 | 3 oz. | 4 oz. |
| 265/70R15 | 4 oz. | 4 oz. |
| 285/70R15 | 4 oz. | 4 oz. |
| 315/70R15 | 4 oz. | 5 oz. |
| 245/65R15 | 3 oz. | 4 oz. |
| 225/60R15 | 3 oz. | 4 oz. |
| 325/60R15 | 4 oz. | 5 oz. |
| 15.5" | | |
| 185/70R15.5 | 3 oz. | 4 oz. |
| 16" | | |
| 6.50R16 | | 4 oz. |
| 7.50R16 | | 4 oz. |
| 8.25R16 | | 6 oz. |
| 11R16 | | 8 oz. |
| 215/85R16 | 3 oz. | 4 oz. |
| 225/85R16 | 3 oz. | 4 oz. |
| 235/85R16 | 3 oz. | 4 oz. |
| 245/85R16 | 3 oz. | 4 oz. |
| 255/85R16 | 4 oz. | 5 oz. |
| 265/85R16 | 4 oz. | 5 oz. |
| 275/85R16 | 4 oz. | 5 oz. |
| 205/80R16 | 3 oz. | 4 oz. |
| 325/80R16 | 4 oz. | 6 oz. |
| 175/75R16 | 3 oz. | 4 oz. |
| 195/75R16 | 3 oz. | 4 oz. |
| 225/75R16 | 3 oz. | 4 oz. |
| 235/75R16 | 3 oz. | 4 oz. |

| | | |
|--------------|-------|-------|
| 245/75R16 | 3 oz. | 4 oz. |
| 265/75R16 | 4 oz. | 6 oz. |
| 285/75R16 | 4 oz. | 6 oz. |
| 295/75R16 | 4 oz. | 6 oz. |
| 315/75R16 | 4 oz. | 6 oz. |
| 215/70R16 | 3 oz. | 4 oz. |
| 225/70R16 | 3 oz. | 4 oz. |
| 235/70R16 | 3 oz. | 4 oz. |
| 245/70R16 | 3 oz. | 4 oz. |
| 255/70R16 | 3 oz. | 4 oz. |
| 265/70R16 | 3 oz. | 4 oz. |
| 275/70R16 | 3 oz. | 4 oz. |
| 305/70R16 | 3 oz. | 4 oz. |
| 315/70R16 | 4 oz. | 6 oz. |
| 355/70R16 | 5 oz. | 6 oz. |
| 365/70R16 | 5 oz. | 6 oz. |
| 395/70R16 | 5 oz. | 6 oz. |
| 195/65R16 | 3 oz. | 4 oz. |
| 215/65R16 | 3 oz. | 4 oz. |
| 225/65R16 | 3 oz. | 4 oz. |
| 245/65R16 | 3 oz. | 4 oz. |
| 255/65R16 | 3 oz. | 4 oz. |
| 305/65R16 | 3 oz. | 4 oz. |
| 345/65R16 | 5 oz. | 6 oz. |
| 375/65R16 | 5 oz. | 6 oz. |
| 215/60R16 | 3 oz. | 4 oz. |
| 225/60R16 | 3 oz. | 4 oz. |
| 235/60R16 | 3 oz. | 4 oz. |
| 285/60R16 | 3 oz. | 4 oz. |
| 255/55R16 | 3 oz. | 4 oz. |
| 315/55R16 | 3 oz. | 4 oz. |
| 345/55R16 | 3 oz. | 5 oz. |
| 355/55R16 | 3 oz. | 5 oz. |
| 375/55R16 | 4 oz. | 6 oz. |
| 245/50R16 | 3 oz. | 4 oz. |
| 16.5" | | |
| 8R16.5 | 5 oz. | 5 oz. |
| 8.75R16.5 | 6 oz. | 6 oz. |
| 9.5R16.5 | 6 oz. | 6 oz. |
| 10R16.5 | 6 oz. | 6 oz. |
| 12R16.5 | 8 oz. | 8 oz. |
| 17" | | |
| 235/80R17 | 6 oz. | 6 oz. |
| 235/75R17 | 6 oz. | 6 oz. |
| 245/75R17 | 6 oz. | 6 oz. |
| 255/75R17 | 6 oz. | 6 oz. |
| 285/75R17 | 6 oz. | 8 oz. |
| 245/70R17 | 4 oz. | 6 oz. |
| 255/70R17 | 4 oz. | 6 oz. |
| 265/70R17 | 6 oz. | 6 oz. |

| | | |
|--------------|-------|-------|
| 275/70R17 | 6 oz. | 6 oz. |
| 285/70R17 | 6 oz. | 6 oz. |
| 305/70R17 | 6 oz. | 8 oz. |
| 315/70R17 | 6 oz. | 8 oz. |
| 355/70R17 | 6 oz. | 8 oz. |
| 225/65R17 | 3 oz. | 4 oz. |
| 235/65R17 | 3 oz. | 4 oz. |
| 245/65R17 | 3 oz. | 4 oz. |
| 255/65R17 | 3 oz. | 5 oz. |
| 265/65R17 | 4 oz. | 6 oz. |
| 305/65R17 | 4 oz. | 6 oz. |
| 375/65R17 | 6 oz. | 8 oz. |
| 225/60R17 | 3 oz. | 4 oz. |
| 235/60R17 | 3 oz. | 4 oz. |
| 255/60R17 | 4 oz. | 6 oz. |
| 275/60R17 | 4 oz. | 6 oz. |
| 285/60R17 | 4 oz. | 6 oz. |
| 225/55R17 | 3 oz. | 4 oz. |
| 215/55R17 | 3 oz. | 4 oz. |
| 275/55R17 | 3 oz. | 5 oz. |
| 345/55R17 | 3 oz. | 5 oz. |
| 255/50R17 | 3 oz. | 4 oz. |
| 17.5" | | |
| 8R17.5 | 5 oz. | 5 oz. |
| 8.5R17.5 | 6 oz. | 6 oz. |
| 9R17.5 | 6 oz. | 6 oz. |
| 9.5R17.5 | 8 oz. | 8 oz. |
| 10R17.5 | 8 oz. | 8 oz. |
| 11R17.5 | 8 oz. | 8 oz. |
| 225/90R17.5 | 8 oz. | 8 oz. |
| 205/80R17.5 | 8 oz. | 8 oz. |
| 225/80R17.5 | 8 oz. | 8 oz. |
| 205/75R17.5 | 6 oz. | 6 oz. |
| 215/75R17.5 | 6 oz. | 6 oz. |
| 225/75R17.5 | 6 oz. | 6 oz. |
| 235/75R17.5 | 6 oz. | 6 oz. |
| 245/75R17.5 | 6 oz. | 6 oz. |
| 195/70R17.5 | 6 oz. | 6 oz. |
| 215/70R17.5 | 6 oz. | 6 oz. |
| 235/70R17.5 | 6 oz. | 6 oz. |
| 195/60R17.5 | 6 oz. | 6 oz. |
| 205/60R17.5 | 6 oz. | 6 oz. |
| 225/60R17.5 | 6 oz. | 6 oz. |
| 18" | | |
| 7.50R18 | 8 oz. | 8 oz. |
| 255/70R18 | 3 oz. | 5 oz. |
| 265/70R18 | 3 oz. | 5 oz. |
| 275/70R18 | 4 oz. | 6 oz. |
| 275/65R18 | 4 oz. | 6 oz. |
| 285/65R18 | 4 oz. | 6 oz. |

| | | |
|------------|-------|-------|
| 325/65R18 | 4 oz. | 6 oz. |
| 355/65R18 | 4 oz. | 6 oz. |
| 395/65R18 | 6 oz. | 8 oz. |
| 245/60R18 | 3 oz. | 4 oz. |
| 255/60R18 | 3 oz. | 5 oz. |
| 265/60R18 | 3 oz. | 5 oz. |
| 275/60R18 | 4 oz. | 6 oz. |
| 285/60R18 | 4 oz. | 6 oz. |
| 325/60R18 | 4 oz. | 6 oz. |
| 375/60R18 | 6 oz. | 8 oz. |
| 395/60R18 | 6 oz. | 8 oz. |
| 255/55R18 | 3 oz. | 4 oz. |
| 275/55R18 | 3 oz. | 4 oz. |
| 285/55R18 | 3 oz. | 4 oz. |
| 285/50R18 | 3 oz. | 4 oz. |
| 375/50R18 | 4 oz. | 6 oz. |
| 19" | | |
| 255/55R19 | 3 oz. | 4 oz. |
| 255/50R19 | 3 oz. | 4 oz. |
| 275/45R19 | 3 oz. | 4 oz. |
| 285/45R19 | 3 oz. | 4 oz. |
| 20" | | |
| 325/75R20 | 6 oz. | 8 oz. |
| 275/65R20 | 4 oz. | 6 oz. |
| 275/60R20 | 4 oz. | 6 oz. |
| 325/60R20 | 4 oz. | 6 oz. |
| 355/60R20 | 5 oz. | 6 oz. |
| 275/55R20 | 3 oz. | 4 oz. |
| 285/55R20 | 3 oz. | 4 oz. |
| 255/50R20 | 3 oz. | 4 oz. |
| 285/50R20 | 3 oz. | 4 oz. |
| 305/50R20 | 4 oz. | 6 oz. |
| 325/50R20 | 4 oz. | 6 oz. |
| 355/50R20 | 4 oz. | 6 oz. |
| 325/45R20 | 4 oz. | 6 oz. |
| 275/40R20 | 4 oz. | 6 oz. |
| 315/35R20 | 4 oz. | 6 oz. |
| 22" | | |
| 325/55R22 | 5 oz. | 6 oz. |
| 335/55R22 | 5 oz. | 6 oz. |
| 325/50R22 | 4 oz. | 6 oz. |
| 305/45R22 | 4 oz. | 6 oz. |
| 305/40R22 | 4 oz. | 6 oz. |
| 385/35R22 | 3 oz. | 5 oz. |
| 24" | | |
| 325/45R24 | 4 oz. | 6 oz. |

*Sizes can be combined to suit application needs
*Always refer to application charts

TIRE BALANCING BEADS

Application Chart by Tire For Light , Medium and Heavy Trucks

| Tire Size | Single | Dual |
|------------------------------------|--------|------|
| Off-Road/ Deep Thread Tires | | |
| 14" | | |
| 27/8.50R14 | 3 oz. | |
| 15" | | |
| 29/9.50R15 | 4 oz. | |
| 30/9.50R15 | 4 oz. | |
| 33/9.50R15 | 6 oz. | |
| 31/10.50R15 | 4 oz. | |
| 33/10.50R15 | 6 oz. | |
| 31/11.50R15 | 4 oz. | |
| 32/11.50R15 | 6 oz. | |
| 31/12.50R15 | 5 oz. | |
| 32/12.50R15 | 6 oz. | |
| 33/12.50R15 | 6 oz. | |
| 35/12.50R15 | 6 oz. | |
| 36/12.50R15 | 8 oz. | |
| 37/12.50R15 | 8 oz. | |
| 35/13.50R15 | 8 oz. | |
| 31/14.50R15 | 6 oz. | |
| 33/14.50R15 | 8 oz. | |
| 36/14.50R15 | 10 oz. | |
| 38/15.50R15 | 10 oz. | |
| 33/16.50R15 | 8 oz. | |
| 36/16.50R15 | 10 oz. | |
| 40/17B15 | 10 oz. | |
| 44/18.50B15 | 12 oz. | |
| 16" | | |
| 32/9.50R16 | 6 oz. | |
| 35/10.50R16 | 6 oz. | |
| 31/12.50R16 | 6 oz. | |
| 32/12.50R16 | 6 oz. | |
| 33/12.50R16 | 6 oz. | |
| 34/12.50R16 | 6 oz. | |
| 35/12.50R16 | 6 oz. | |
| 36/12.50R16 | 8 oz. | |
| 37/12.50R16 | 8 oz. | |
| 33/14.50R16 | 8 oz. | |
| 36/14.50R16 | 10 oz. | |
| 38/15.50R16 | 10 oz. | |

| | | |
|----------------------|--------|--------|
| 16.5" | | |
| 31/10.50R16.5 | 4 oz. | |
| 33/12.50R16.5 | 6 oz. | |
| 35/12.50R16.5 | 6 oz. | |
| 37/12.50R16.5 | 8 oz. | |
| 33/14.50R16.5 | 8 oz. | |
| 35/14.50R16.5 | 8 oz. | |
| 38/15.50R16.5 | 10 oz. | |
| 33/16.50R16.5 | 8 oz. | |
| 36/16.50R16.5 | 10 oz. | |
| 40/17B16.5 | 10 oz. | |
| 44/18.50B16.5 | 12 oz. | |
| 33/12.50R17 | 6 oz. | |
| 35/12.50R17 | 6 oz. | |
| 37/12.50R17 | 8 oz. | |
| 37/13.50R17 | 10 oz. | |
| 40/13.50R17 | 10 oz. | |
| 18" | | |
| 35/12.50R18 | 6 oz. | |
| 37/12.50R18 | 8 oz. | |
| 20" | | |
| 35/12.50R20 | 6 oz. | |
| 37/12.50R20 | 8 oz. | |
| Medium Trucks | | |
| 19.5" | | |
| 8R19.5 | 6 oz. | 8 oz. |
| 9R19.5 | 6 oz. | 8 oz. |
| 18R19.5 | 14 oz. | |
| 280/75R19.5 | 8 oz. | |
| 285/75R19.5 | 8 oz. | |
| 225/70R19.5 | 6 oz. | 8 oz. |
| 245/70R19.5 | 6 oz. | 8 oz. |
| 265/70R19.5 | 8 oz. | 8 oz. |
| 275/70R19.5 | 8 oz. | 10 oz. |
| 285/70R19.5 | 8 oz. | 10 oz. |
| 305/70R19.5 | 10 oz. | 12 oz. |
| 385/65R19.5 | 12 oz. | 14 oz. |
| 445/65R19.5 | 14 oz. | |

| | | |
|--------------|--------|--------|
| 20" | | |
| 7.50R20 | 8 oz. | 10 oz. |
| 8.25R20 | 8 oz. | 10 oz. |
| 9.00R20 | 10 oz. | 12 oz. |
| 10.00R20 | 10 oz. | 12 oz. |
| 11.00R20 | 12 oz. | 14 oz. |
| 12.00R20 | 12 oz. | 14 oz. |
| 12.5R20 | 12 oz. | 14 oz. |
| 13/80R20 | 12 oz. | 14 oz. |
| 14/80R20 | 12 oz. | 14 oz. |
| 14.00R20 | 16 oz. | 16 oz. |
| 365/80R20 | 16 oz. | 16 oz. |
| 395/80R20 | 16 oz. | 16 oz. |
| 20.5" | | |
| 525/65R20.5 | 20 oz. | |
| 615/65R20.5 | 20 oz. | |
| 22" | | |
| 10.00R22 | 12 oz. | |
| 11.00R22 | 12 oz. | |
| 22.5" | | |
| 9R22.5 | 8 oz. | 10 oz. |
| 10R22.5 | 8 oz. | 10 oz. |
| 11R22.5 | 10 oz. | 12 oz. |
| 12R22.5 | 12 oz. | 14 oz. |
| 13R22.5 | 12 oz. | |
| 15R22.5 | 12 oz. | |
| 16R22.5 | 14 oz. | |
| 16.5R22.5 | 14 oz. | |
| 18R22.5 | 16 oz. | |
| 235/80R22.5 | 6 oz. | 8 oz. |
| 255/80R22.5 | 8 oz. | 10 oz. |
| 275/80R22.5 | 10 oz. | 12 oz. |
| 295/80R22.5 | 12 oz. | 14 oz. |
| 315/80R22.5 | 14 oz. | |
| 365/80R22.5 | 14 oz. | |
| 245/75R22.5 | 8 oz. | 10 oz. |
| 265/75R22.5 | 8 oz. | 10 oz. |
| 285/75R22.5 | 10 oz. | 12 oz. |
| 295/75R22.5 | 10 oz. | 12 oz. |

| | | |
|--------------|--------|--------|
| 22.5" | | |
| 315/75R22.5 | 12 oz. | |
| 345/75R22.5 | 12 oz. | |
| 350/75R22.5 | 14 oz. | |
| 235/70R22.5 | 6 oz. | 8 oz. |
| 255/70R22.5 | 8 oz. | 10 oz. |
| 11/70R22.5 | 8 oz. | 10 oz. |
| 265/70R22.5 | 8 oz. | 10 oz. |
| 275/70R22.5 | 10 oz. | 12 oz. |
| 305/70R22.5 | 10 oz. | 12 oz. |
| 315/70R22.5 | 10 oz. | 12 oz. |
| 365/70R22.5 | 12 oz. | |
| 365/65R22.5 | 12 oz. | |
| 385/65R22.5 | 12 oz. | |
| 425/65R22.5 | 14 oz. | |
| 445/65R22.5 | 16 oz. | |
| 285/60R22.5 | 10 oz. | |
| 295/60R22.5 | 10 oz. | |
| 305/60R22.5 | 10 oz. | |
| 315/60R22.5 | 10 oz. | |
| 385/55R22.5 | 12 oz. | |
| 455/55R22.5 | 16 oz. | |
| 275/50R22.5 | 10 oz. | 12 oz. |
| 445/50R22.5 | 16 oz. | |
| 24" | | |
| 11.00R24 | 14 oz. | |
| 12.00R24 | 14 oz. | |
| 14.00R24 | 16 oz. | |
| 445/70R24 | 16 oz. | |
| 495/70R24 | 16 oz. | |
| 24.5" | | |
| 11R24.5 | 10 oz. | 12 oz. |
| 12R24.5 | 14 oz. | 14 oz. |
| 285/75R24.5 | 10 oz. | 12 oz. |
| 305/75R24.5 | 10 oz. | 12 oz. |
| 315/75R24.5 | 10 oz. | 12 oz. |
| 275/80R24.5 | 10 oz. | 12 oz. |
| 295/80R24.5 | 10 oz. | 12 oz. |

*Sizes can be combined to suit application needs

*Always refer to application charts

TIRE BALANCING BEADS

| Weight | Tire Width - FRONT |
|--------|----------------------------------|
| 1 oz. | 80 - 120mm |
| 2 oz. | 80 - 120 mm w/spoked wheels |
| 2 oz. | 80 - 120 mm (BMW Telelever only) |
| 2 oz. | 130 mm |

| Weight | Tire Width - REAR |
|--------|------------------------------------|
| 2 oz. | 130 - 240 mm |
| 3 oz. | 250 - 360 mm |
| 3 oz. | 195 - 205 mm car tires on the rear |

| Weight | Dual Purpose / Off Road with Rim Lock |
|--------|---------------------------------------|
| | Tire Width - FRONT |
| 2 oz. | 80 - 120mm |
| | Tire Width - REAR |
| 3 oz. | 130 - 230mm |

| Weight | Scooters |
|--------|--------------------------|
| 1 oz. | 10" diameter wheels |
| 2 oz. | 12" & Up diameter wheels |

| Weight | Art. No. |
|--------|------------|
| 1 oz. | 822.016301 |
| 2 oz. | 822.016302 |



Motorcycle Application Chart

Use:

- Always Refer to the application chart
- 1 oz., 2 oz. & 3 oz. are not drop in bags. They must be opened before installation or poured into the tire during mounting.

To achieve maximum results it is important to use the proper package size for each tire. As a rule of thumb, the amount of balancing beads required per tire is based on one ounce per thirteen pounds of tire. If you are not using an applicator and pouring the contents of the bag directly into the tire it is imperative that none of the contents of the bag ends up on the bead seating area of the tire and rim. If you are using the throw-in bag, open and discard outside bag only and throw clear inner bag containing the beads directly inside tire cavity. Würth Canada Limited does not accept any responsibility for air loss or tire damage due to improper installation or air check. In order to reduce the possibility of valve leaks, the use of a long valve core or valve core filter and a metal valve cap is recommended.

*Sizes can be combined to suit application needs

*Always refer to application charts

*For thin tires with wire spokes & tube - Please add an additional 1 oz.

BALANCING BEADS INJECTOR TOOL



Art. No. 822.0200

Offers a fast and easy way to inject Würth balancing beads into vehicle tires through the valve stem.

Features:

- Attaches to air shop supply
- 3ft braided hose
- Quality tested manufacture approved equipment
- Rated for 150PSI

Benefits:

- Fast and easy way to inject beads
- Allows injection without tire/wheel dismount
- Balances a wheel in under 3 minutes



Note: Always wear safety goggles and follow instructions

WHEEL WEIGHT TOOLS



Art. No. 695.391885

Wheel Weight Pliers

- Has cropping facility and hub cap remover
- For fixing and removing of wheel weights
- Spreading and squeezing of retaining springs



Art. No. 714.541221

Adhesive Wheel Weight Remover Tool

- Effortless removal of adhesive wheel weights and residue
- No scratching of alloy wheels due to GFK material
- Scraping blade can be resharpened
- Blade Width: 22 mm; Length: 280 mm



Art. No. 830.050

Heavy Duty Wheel Weight Installer Tool

- Strong hinge point and claw point
- Used to hammer standard weight on the rim and remove old weight
- Built in cutter can be used if the weight needs to be trimmed (ie: adhesive weights, for trimming lead weights only)
- Not recommended for coated wheel weights



Art. No. 830.025

25K Installation Tool

- Has cropping facility and hub cap remover
- For installing and removing of wheel weights
- Installation/removal of retaining clips
- Length: 9 1/2"



Art. No. 830.075

Non-Marking Heavy Duty Wheel Weight Installer Tool

- Plastic tip protects the rim during wheel weight removal
- Replaceable head protects the coating on the wheel weight during installation



Art. No. 830.0751

Replacement Tip for Art. No. 830.075

MOUNT/DEMOUNT HEADS



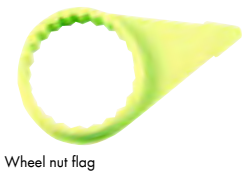
The mount/demount heads are uniquely shaped like a duckhead with a tapered bill, to fit next to and surround the rim of a wheel on a tire mounter.

The Duckhead mounts and demounts the tire from the wheel. The plastic mount/demount head provides a softer contact with the rim while mounting and removing tires, which helps prevent scratches and damage to expensive rims.

| Description | OEM | OEM Part No. | Tire Change Model | Art. No. |
|--|----------------|-------------------------|--|--------------------|
| Nylon Duckhead Kit with Tapered Hole | Coats | 8183061 | 5030, 5040, 5050, 5060, 5065, 6050, 6060, 6065, 7050, 7055, 7060, 7065, 7655, 7660, 7665 | W341.600079 |
| Nylon Duckhead with Round Hole (Head Only) | All Tool Coats | G3008403 83008403 | RC 1, 5, 10, 15, 20, Early 5060, 9010, 9024, APX90 All Rim Clamp (Optional Accessory) All Earlier Models Except 1550, 1620, 1625 TCX Series M39, S40, S41, S42, S43, S45, S408MAXI, S435, S436, S436TOP | W341.600080 |
| | Corghi | 450310 | | |
| | Hofmann | 8314813 | | |
| | Hunter Sice | RP11-8314813 8314813 | | |
| Nylon Duckhead | Accuturn | SM102529 | 220A, All other models require adapter TC 250, TC 300, TC325 | W341.600081 |
| | Hunter | RP60343B | | |



WHEEL NUT FLAG



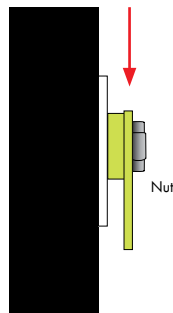
Wheel nut flag

Side View of wheel with Wheel nut flag on the nut



Front view of wheel with wheel flags on all nuts

Wheel nut flag collar



Features:

- The wheel nut flag product is a brightly coloured, flat plastic pointer shaped device that fits tightly over a vehicle wheel nut and is positioned in a uniform pattern
- It is designed to identify any movement of the nut and any excessive over heating at the wheel end
- There are two principal causes of vehicle wheel detachments, the first is the loosening of wheel nuts which would be recognized by the loose wheel nut indicator "pointer" moving out of its original set pattern
- The second cause of wheel detachment is caused by excessive heat due to brake or wheel bearing failure
- Excessive heat would cause the indicator to deform and eventually melt
- The vehicle operator can now spot "at a glance" any serious trouble that has started to develop with the vehicle wheel

Material:

- The product is manufactured from polyethylene and is UV stable

Application:

- The product is manufactured in several sizes to fit all trucks from minis to giant transports
- There are ten various sizes from 20.5 mm to 40.5 mm in width

Note: For accuracy, please check nut size with socket wrench

| Metric | Standard | Art. No. | Typical Applications |
|---------|----------|---------------------|--|
| 20.5 mm | 13/16" | 879.010050 | Cube vans-courier style vehicles |
| 22 mm | 7/8" | 879.010051 | Smaller courier units & GMC flanged cap of flat nut |
| 31 mm | 1 1/4" | 879.01005355 | Heavy duty trailers-spoke style wheels |
| 33 mm | 1 5/16" | 879.010055 | Trucks with hub-pilot wheels(Budd Uni-mount-10 stud hub piloted wheel and GM buses) |
| 38.1 mm | 1 1/2 " | 879.010057 | Motor wheel-8 stud hub piloted wheel & cone locknut (Transit buses and new pointed nuts) |

TIRE VALVE SPECS AND MEASUREMENTS

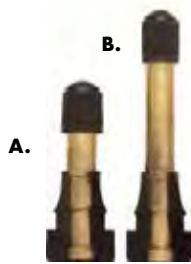
Würth's High Pressure Snap-In Valve Stems have been manufactured with a unique "collar" design at the base of the brass insert which anchors the brass into the rubber base. The collar is inside the tire, making it impossible for the brass to blow out during severe hot or cold temperatures. Würth valves are manufactured using only the highest quality materials. Made of EPDM rubber, the valve base will not crack, split, or weather due to ozone and harsh environmental conditions as do competitive products.

Competitor High Pressure Snap-In Valves



No Collar, Straight Brass Insert

Würth High Pressure Snap-In Valves



Collar at base of brass insert (inside tire)

- Will not blow out in severe heat or cold

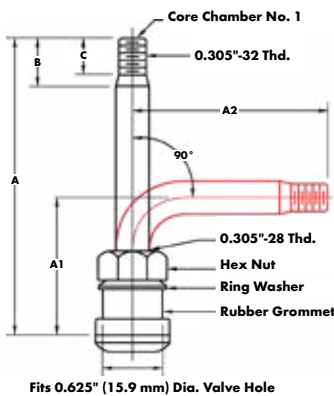
Tubeless Snap-In Type Valves For Use to 100 PSI Cold Inflation Pressure Maximum

Tire and Rim Association Standard

- Recommended maximum rim thickness at valve hole for the above snap-in type valves is 0.205". For usage beyond this limit consult valve manufacturer.
- Valve holes for the above valves must conform to standards
- Not to be used with metal valve extensions.
- Valve core: TR C1
- In the case of applications above 210 km/h (130 mph) it is recommended to use a clamp-in valve instead of snap-in valve.

| | Art. No. | Valve Hole Dia. | C (Max.) | D (Ref.) | E | F (Max.) | G (Max.) |
|----|----------|-----------------|----------|----------|-------|----------|----------|
| A. | 879.600 | 0.453" | 0.69" | 1.27" | 0.79" | 0.32" | 0.54" |
| B. | 879.602 | 0.453" | 0.69" | 2.00" | 1.52" | 0.32" | 0.54" |

BRASS VALVES FOR HEAVY TRUCKS



Fits 0.625" (15.9 mm) Dia. Valve Hole

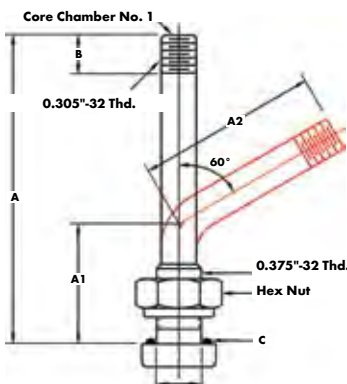


Features:

- For steel wheels with a 5/8" (15.9 mm) valve hole
- Recommended installation torque: 45 - 55 inch-pounds
- Maximum PSI: 200
- Valve core: TR-C1

| Valve type | A | A1 | A2 | B | C | Art. No. |
|------------|-----------------|-----|-----|-----------------|---------------------|----------|
| Straight | 1.50" (38.1 mm) | N/A | N/A | 0.47" (11.9 mm) | 0.33" (8.4 mm) min. | 879.501 |
| Straight | 3.75" (95.2 mm) | N/A | N/A | 0.47" (11.9 mm) | 0.33" (8.4 mm) min. | 879.572 |

NICKEL PLATED BRASS VALVES FOR HEAVY TRUCKS



Fits 0.382" to 0.394" (9.7 mm to 10 mm) Dia. Valve Hole



Features:

- For rim thickness of 0.218" (5.6 mm) to 0.410" (10.4mm) at valve hole
- Fits 0.382" to 0.394" (9.7 mm to 10.0 mm) diameter valve hole
- Recommended installation torque: 80 - 125 inch-pounds
- Valve core: TR-C1

| Valve type | A | A1 | A2 | B | C | Art. No. |
|------------|-----|-----------------|-----------------|---------------------|---------|----------|
| 60° Bend | N/A | 0.98" (24.9 mm) | 2.52" (64.0 mm) | 0.33" (8.4 mm) min. | O-Ring | 879.545 |
| 60° Bend | N/A | 0.98" (24.9 mm) | 1.88" (47.8 mm) | 0.33" (8.4 mm) min. | Grommet | 879.554 |
| 60° Bend | N/A | 0.98" (24.9 mm) | 2.52" (64.0 mm) | 0.33" (8.4 mm) min. | Grommet | 879.555 |

TIRE VALVES



Quality snap-in tire valves for everyday use

Features:

- Made of quality EPDM rubber
- High quality brass valve stem
- Shipped assembled with quality valve core and cap
- Each valve individually leak tested before shipping
- Meets TUV and ETRTO standards

| TR No. | Operating Pressure | Rim Hole Diameter | Length | Art. No. | P. Qty. |
|--------|--------------------|-------------------|-------------|-------------|---------|
| 413 | 0-65 psi | 0.453" | 1.25" | 879.041030 | 50 |
| | | | | 879.041030B | 500 |
| 414 | | 1.50" | 879.041038 | 50 | |
| | | | 879.041038B | 500 | |
| 415 | | 0.625" | 1.25" | 879.041031 | 50 |
| 418 | 0.453" | 2.00" | 879.041049 | 50 | |



Metal Bolt-In Tire Valves

Application: Passenger, Light Truck and SUV Wheels

| Art. No. | Box Qty. | Sizes and Finishes | Rim Hole Dia. | Speed Rating | Operating Pressure | TR No. |
|----------|----------|--------------------|---------------|--------------|--------------------|--------|
| 879.416 | 25 | Nickel, 1 1/2" | 0.453/ 0.625" | All | 0-150 psi | 416 |
| 879.428 | 1 | Chrome, 1 1/4" | 0.453 | All | 0-150 psi | - |
| 879.573 | 100 | Brass, 4 3/8" | 0.625" | All | 0-150 psi | 573 |



High Pressure Snap-In Tire Valves

Application: Passenger, Light Truck and SUV Wheels

| Art. No. | Box Qty. | Sizes and Finishes | Rim Hole Dia. | Speed Rating | Operating Pressure | TR. No. |
|----------|----------|--------------------|---------------|--------------|--------------------|---------|
| 879.600 | 25 | 1 1/4" | 0.453" | J - U | 0-100 psi | 600HP |
| 879.602* | 25 | 2" | 0.453" | J - U | 0-100 psi | 602HP |

SNAP-IN TIRE VALVE



Art. No. 879.174131

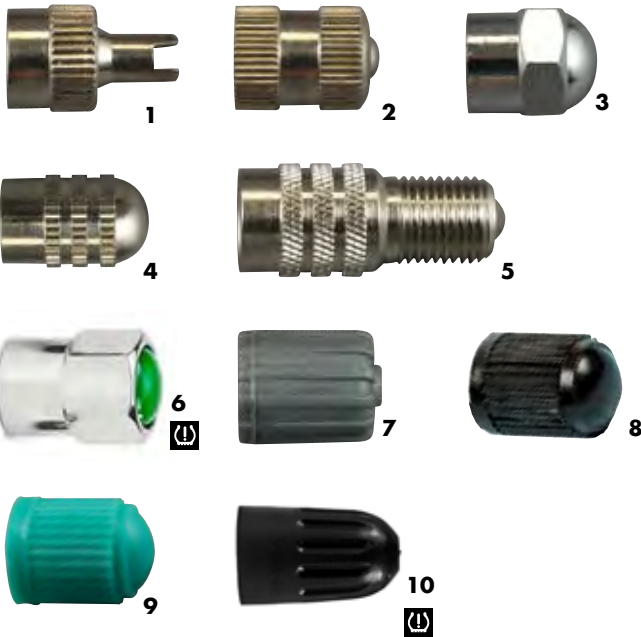
Chrome Snap In Tire Valve

- TR# 413
- 1 1/4" Valve with chrome sleeve and cap
- Use in passenger wheels with a maximum cold inflation pressure of 65 psi and maximum rim thickness of 0.156"
- Fits 0.453" valve holes



* maximum rim thickness: 0.205"

VALVE CAPS



| No. | Description | TR No. | Art. No. | P. Qty. |
|-----|---|--------|------------|---------|
| 1 | Metal screwdriver cap | VC-2 | 879.17491 | 100 |
| 2 | Long skirted metal dome cap with high temp. silicone gasket | VC-3 | 879.17492 | |
| 3 | Chrome hex head valve cap with high temp. silicone gasket | - | 879.17493 | |
| 4 | Heavy duty metal truck dome cap with high temp. silicone gasket | - | 879.17494 | |
| 5 | Double seal valve cap for better air retention | - | 879.17579 | 10 |
| 6 | Chromed plastic cap green top with seal* | - | 879.17495 | 100 |
| 7 | Grey plastic cap | - | 879.455 | 100 |
| 8 | Black plastic cap | - | 879.45 | 150 |
| 9 | Green plastic cap to indicate nitrogen filled tires | - | 879.451 | 100 |
| 10 | Long skirt TPMS valve cap, black* | - | 879.174921 | 100 |

* TPMS compatible

VALVE CORES



| No. | Description | TR No. | Art. No. | P. Qty. |
|-----|---|--------|----------|---------|
| 1 | Replacement universal valve core - short Fits Art. No. 879.413, 414, 415, etc. | C-1 | 879.50 | 100 |
| 2 | Nickel-plated valve core for TPMS | C-1 | 879.440 | 100 |

ECONOMY AIR GAUGES



Art. No. 715.54073

Dial Gauge for Passenger Trucks

Features:

- 0 - 160 psi
- Passenger/truck easy-to-read dial gauge with bleeder valve



Art. No. 715.54077

Dial Gauge for Passenger Trucks w/12" Hose

Features:

- 0 - 160 psi
- Passenger/truck easy-to-read dial gauge with bleeder valve and 12" whip hose

The operating temperature range for these gauges is -40°C to 70°C
Dial Gauge for cars, SUVs, light trucks and commercial truck tires.

DIGITAL TIRE INFLATOR



Art. No. 715.540061

3-in-1 Heavy-Duty Digital Inflator

Features:

- Die cast aluminum unit with rubber sleeve for Heavy Duty use
- Hose length: 6 ft (182.88 cm)
- Wire sheathed hose on flex area of hose to eliminate kinking
- Backlit LCD with 90 second auto shut-off
- Advanced digital high precision reading

- Powered by: 2x AAA batteries (included)
- Accuracy: ± 2 p.s.i.
- Units of measurement: PSI, BAR, kPa, KgF

3 in 1 function:

- Inflate
- Deflate
- Measure tire pressure

TPMS Compatible



| | |
|--------------------------------|--|
| Hose length | 6 ft. with swivel |
| Chuck type | Clip on |
| Accuracy exceeds | 86/217/EEC, $2 \pm$ p.s.i. |
| Units of measure | bar, p.s.i., kPa, kgF |
| Inflation range | 0-12 bar 0-174 p.s.i. 1200 kPa 12 kgF |
| Reading accuracy (+, -) | 0.1 bar 0.2 p.s.i. 1 kPa 0.01 kgF |
| Max. inlet air supply | 16 bar 232 p.s.i. 1600 kPa 16 kgF |
| Inlet thread | 1/4" female NPT |
| Dimensions | 300L x 150W x 110H mm |
| Battery | 2x AAA |
| Weight | 2.4 lbs. (1.2 kg) |

AUTOPRO TIRE INFLATOR



Art. No. 715.540063

Portable automatic tire inflator with all the features of a larger wall-mounted unit.

Features:

- Multi-scale LCD display psi, kPa and bar
- Replaces most common wall mounted units
- Two programmable pre-set pressure buttons
- Built-in over-pressure setting function
- Pre-set function to seed the tire bead & deflate back to pre-set tire pressure
- Auto on / auto off function
- Large easy to read LCD display with Audible warning
- Built-in rechargeable Lithium-ion battery
- Up to 15 hours of continuous use
- Auto-off after 90 seconds
- Precision built Tough ABS case with shock resistant
- Perfect for inflating large tires and for use in large fleet shops
- Calibrated & certified

Applications:

Auto shops, workshops, tire centres, mobile repair units and fleet operation repairs.

| | |
|----------------------------|--------------------------------------|
| Chuck type | Clip on |
| Chuck style | Single straight |
| Max. inflation | 174 psi |
| Scale | psi/kPa/bar |
| Inlet size | 1/4" |
| Hose length | 1.5 m/4.9 ft |
| Dimensions | 300L x 125W x 135 H mm |
| Weight | 4.5lbs(2 kg) |
| Accuracy | ± 2 psi @ 25-75 psi |
| Supply pressure max | 182 psi |
| Powered by | DC 12v rechargeable battery (Li-ION) |
| Inflation speed | 2500 L/min (88 cfm) @ 182 psi |

1 year warranty

PROFESSIONAL TIRE INFLATOR



Art. No. 715.540062

Compact tough aluminium housing Inflator.

Features:

- Tough die cast aluminium body
- Accurate multi-scale gauge
- Large backlit digital display
- Wire sheathed hose eliminates kinking
- Impact absorbing bumpers
- Rubber grip on chuck
- Calibrated & certified
- Accuracy exceeds Standards
- Steel trigger handle
- Auto on / auto off function shock resistant
- Quality durable inflator

Applications:

Auto repair shops, workshops, tire centres, mobile repair units and fleet operation repairs.

| | |
|--------------------------------------|---------------------------------------|
| Chuck type | Hold on |
| Chuck style | Dual angle |
| Max. inflation | 174 psi |
| Scale | psi, kPa, bar |
| Inlet size | 1/4" BSP |
| Hose length | 500mm |
| Dimensions | 200 L x 40 W x 80 H mm + hose + chuck |
| Weight | 0.85 kg |
| Accuracy | ± 2 psi @ 25 - 75 psi |
| Supply pressure max | 200 psi |
| Powered by | 2 x AAA (included) |
| Battery life (continuous use) | 80 hr |
| Inflation speed | 500 L/min @ 188 psi |

1 year warranty

ECONOMY AIR GAUGES



Art. No. 715.54074

The operating temperature range for these gauges is -40° C to 70° C

Dial Gauge for cars, SUVs, light trucks and commercial truck tires.

Inflator Gauge, Heavy Duty Passenger/ Truck w/12" Hose

Features:

- 20 - 120 psi
- Heavy duty passenger/truck inflator gauge with easy to view site glass and 12" whip hose.
- Dual foot chuck for truck and bus use.

Tire pressure must be checked regularly. Maintaining proper tire inflation will increase fuel economy, increase tire life, and reduce the chance of tire failure

AIR CHUCKS



715.54092



715.54096



715.54080



715.54095



715.54083



715.54082



715.54081

Air chucks for standard bore tire valves.

Open chucks are used with tire changers and tire inflators, that can control the flow or stopping of airflow.

Closed chucks are used with live air lines where there is no other control for stopping the air from escaping. The pin inside the chuck compresses when pushed up against the tire valve to allow the air to flow.

Maximum operating pressure: 150psi

Explanation:

Open - flow through
(engaged or not)
Closed - NON flow through
(until engaged then becomes flow-thru)

| Art No. | Description | Box Qty. |
|-----------|---|----------|
| 715.54092 | Brass ball foot chuck (closed) | 5 |
| 715.54095 | Ball foot chuck with lock-on clip feature – Opens when applied to valve | 5 |
| 715.54096 | Ball foot chuck with clip (open) requires air release up the air line | 5 |
| 715.54080 | Air Chuck Euro Style 1/4NPT Clip Closed | 5 |
| 715.54081 | Air Chuck Euro Style 1/4NPT Clip Open | 5 |
| 715.54083 | Premium black straight-on tilt locking chuck (closed) truck, and dual wheel application | 1 |
| 715.54082 | Premium black dual foot chuck (inside & outside dual wheel application) Angled and tapered tip for hard to reach areas (closed) | 1 |

TPMS SENSOR AID SYSTEM WITH OBD II



Art. No. 879.02405

Sensor AID is designed to diagnose and interact with tire pressure monitoring sensors using wireless (radio frequency) communication.

- Würth TPMS Sensor AID tool can diagnose both OEM and non-OEM sensors
- Sensor AID will verify the unique identity of each sensor mounted on wheels, display current pressures, internal tire temperature and battery condition of the sensor.
- Assist technicians in identifying fault, resetting and servicing TPMS systems.

Würth Sensor AID has a unique feature to clone OEM sensors to Würth replacement TPMS sensors.

- Reprogramming of the vehicle's computer is now **not required** when cloning OEM sensors for a second set of wheels and tires (i.e. winter tires.)
- Cloning and programming 4 OEM sensors to Würth TPMS sensors can be done in under 1 minute combined!
- Shipped blank, not preprogrammed-will not consume battery power
- Re-programmable for the same model vehicle that the sensor was first programmed for.
- Contains a medical grade German battery and electronics with G sensor technology

Benefits of Würth TPMS sensors:

- All metal valve stem with plastic cap that will not corrode to the stem.
- The two types of Würth TPMS sensors will work on more than 95% of vehicles made today.
- Wide-application means less product to stock.

TPMS Sensor Kit Contents:

- Sensor AID tool, OBD II Interface, power adapter, USB connector, sensor and device installation CD, TPMS owner's manual, warranty card

Note: Specific user instructions included with each TPMS Sensor AID System kit and each replacement sensor

Valve Stems (Regular Sensors Only):

DFS TPMS Sensor 315/433 MHZ Alloy Stem **Art. No. 879.024056**

DFS TPMS sensor 315/433MHZ **Art. No. 879.024054**



DFS TPMS Metal Clamp In Valve **Art. No. 879.024059**

DFS TPMS Rubber Snap In Valve **Art. No. 879.024058**



DUAL FREQUENCY TPMS SENSOR, SENSOR AID



Compatible with Würth's Sensor AID Tool
Art. No. 879.02405



Art. No. 879.024054

Features:

- Dual frequency sensor can be used in place of 315mhz and 433mhz sensors.
- Don't waste time looking for the right sensor for the application.
- One TPMS sensor for all applications*

Use this one sensor to reduce inventory SKUs!

This article replaces:
879.024050, 879.024051, 879.024052, 879.024053

*Application covers approximately 95% of OE sensors

TIRE PRESSURE MONITORING SYSTEM (TPMS) ACCESSORIES



Art. No. 879.172008

Rubber Snap-in Valve for TPMS

- Tire Pressure Monitoring System replacement valve for GM vehicles
- Length: 5.7 cm
- Diameter: 1.9 cm
- Material: EPDM rubber, brass, and plastic cap
- Includes Torx retaining screw for attachment to sensor body

Note: These valve stems **do not** work with Würth programmable or other programmable sensors.

CRAYON



- Used for marking damaged areas and valve replacement on the tire before removing from the rim

| Colour | Art. No. | P. Qty. |
|--------|----------|---------|
| White | 829.551 | 12 |
| Yellow | 829.552 | |

PERMANENT CRAYON SWIVEL STICK



| Colour | Art. No. |
|--------|----------|
| White | 829.554 |
| Yellow | 829.555 |

Features:

- Swivel action dispenser
- Marking temperature range: -45 °C to +65 °C (-50 °F to +150 °F)
- Fast drying
- Marks on any surface
- Dries overnight

CRAYON STICK



| Colour | Art. No. |
|--------|----------|
| Yellow | 829.553 |

Features:

- Marking temperature range: -45 °C to 65 °C (-50 °F to 150 °F)
- Weather and fade resistant
- Lead free
- Fluorescent marks that glow under black light
- Marks well on oily surfaces
- High visibility colour for poorly lit areas
- Marks metal, wood, plastic, concrete, and glass

Application:

- Remove film from tip
- Marks dry overnight

BRAKE ANTI-SQUEAL SPRAY



Art. No. 890.106 230 g

Permanently eliminates disc brake squeal

Applications:

- Spray on back of pads
- Also used on battery terminals for protection

Note: Spray on new brake pads before disassembly of the old unit to allow complete drying time.

ASSORTMENTS



Standard & Metric Brake Line Nut Assortment

Art. No. 964.889

Contents (155 Pieces):
12 popular sizes, size range 3/8"-1 1/2"
(10 mm-12 mm)



Brake Bleeder Screw Assortment

Art. No. 965.989

Contents (144 Pieces): 21 different sizes of brake bleeder screws in both metric and standard sizes, and 2 different sized rubber caps.

BRAKE PROTECTION PASTE



Art. No. 893.920250 250 g

Extreme high-temperature and high-pressure resistant lubricating, separating and anti-corrosion paste.

Fine metallic and graphite particles in a special grease

- Does not harm sensors on brake systems
- Suitable for ABS brake systems and ASR and ESP systems

Heat-resistant up to 1100 °C

- Burning-on of parts on brake systems is effectively prevented
- Protects against carbon fusion

Great, long-lasting lubrication effect

- Prevents braking and squeaking noises
- Prevents galling on steel to stainless steel, titanium, magnesium and other hard metals

Protects parts even in corrosive environments

- Resists alkaline solutions, most chemical and acid vapours, road salt, steam, salt water, iodized water

Silicone, lead, molybdenumdisulfate, and AOX-free

High-pressure resistant

Very highly anti-corrosive

Use:

- Lubricating, separating and anti-corrosion paste for parts on vehicle brake systems, mounting aids on machines, etc. For the prevention of insertion damage and wear on bearings, sliding points and screw and plug connections.

| Technical Data | |
|------------------------------|--|
| Colour | Copper |
| Temperature | -55 °C to +1100 °C (-67 °F to +2012 °F) |
| Solvent resistance | Excellent in water, salt water and ionized water |
| Particle size | Max 25µm |
| Density (g/cm ³) | 1.38 - 1.42 |
| NLGI Grade | 1/2, D-217 (ASTM Method) |
| Worked penetration | 250 - 290, D-217-A (ASTM Method) |
| Flash point | > 250 °C (>482 °F), D-92 (ASTM Method) |
| Coefficient of friction | 0.065 - 0.075, Shell 4 Ball Method |
| Shelf Life | 5 years |

Note: Do not apply to brake discs and brake friction lining.

ALUMINUM ANTISEIZE PASTE



Art. No. 890.921284 284 g

Superior anti-seize and high-pressure lubricant

- Formulated to lubricate under the most adverse brake conditions, assuring that critical caliper pins, sleeves, bushings and pistons remain lubricated throughout pad life
- Graphite and fine aluminum particles in a special grease protect parts even in high-heat, high-pressure and corrosive environments
- Excellent on rolling and sliding surfaces operating in wet or dry conditions
- Compatible with internal and external brake rubber and plastic hardware
- Lid mounted brush for convenient application
- Temperature range: -185 °C to +1100 °C (-300 °F to +2000 °F)

Note: Keep lubricant off pads and rotors.

CE 1650 CERAMIC PASTE



Extremely high temperature resistance

- Temperature resistance from -46 °C to +1650 °C (-50 °F to +3000 °F)
- Non-melting

Compatible with internal and external brake rubber and plastic hardware

- Including ethylene-propylene rubber
- Can be used in many applications

100% synthetic lubricant

- Non-petroleum formulation

Silicone-free

Note:

This product is not compatible with silicone lubricants typically used to grease brake sliders; all old silicone MUST be cleaned using a solvent before the ceramic brake paste is applied. Keep lubricant off pads and rotors.

| Designation | Contents | Art. No. |
|---------------------|----------|------------|
| Canister with brush | 227 g | 893.923284 |

BRAKE PROTECTION



Art. No. 893.116010 3 g

High temperature resistant brake assembly paste

- Prevents corrosion and squeaks
- Splash and salt water resistant
- Very good permanent lubricating effect

Benefits:

- Temperature resistant up to 1400 °C (2552 °F) (prevents seizing of brake pads due to burning)
- Temperature range: -40 °C up to +1400 °C (-40 °F to 2552 °F)
- Free of metal, therefore particularly well suited for vehicles with ABS systems

Areas of application:

- Preventative disassembly aid for brake pads in motor vehicle brake systems
- Assembly work of machinery
- Prevention of running-in damages, friction and wear in bearings, glide sections, screwed and plug-in connections
- Can also be used to prevent seizing of stainless steel connections
- Comes in convenient one-time use packets; box quantity of 50

BRAKE FINISHING TREATMENT



Spray treatment designed to prevent brake noise at the source. Effective on all types of automotive brake systems

Features:

- Suitable for rotor and drum brake systems
- Noise prevention at the source
- Tacky, non-slip formula
- Durable
- Aerosol can

Recommended:

Anti-Squeak Spray **Art. No. 890.106**

Brake Protection **Art. No. 893.116010**

Brake and Parts Cleaner **Art. No. 890.9...**

Benefits

- Micro-fine aluminum particles fill and bond to grooves, irregularities and inclusions, creating a composite, metallized friction surface. This results in smooth, silent braking performance.
- Applied directly on the rotor or drum
- Formula eliminates brake squeal by dampening and absorbing pad vibration
- Protects from water and high temperatures
- Easy and fast to apply

| Contents | Colour | Art. No. |
|----------|--------|--------------------|
| 255 g | Silver | 8859.110009 |

DOT 4 BRAKE FLUID



For vehicle hydraulic brake and clutch systems that require the use of a synthetic brake fluid in accordance with DOT 4.

Features:

- Synthetic fluid that can be mixed with all synthetic brake fluids of the same quality
- Reduced formation of steam bubbles thanks to its very high dry and wet boiling points
- Excellent corrosion protection for all metal parts of the brake system
- Compatible with all hoses and seals that are present in a brake system
- Protection against wear and foam formation

Notes:

- Change the brake fluid only in accordance with the vehicle manufacturer's instructions
- Under no circumstance mix the brake fluid with automatic transmission fluids (ATF) or mineral oils
- Brake fluid has a solvent effect on paints => avoid contact with painted surfaces
- Brake fluid is hygroscopic
- Can be used with the tap 891.302.01. The tap must only be used to pour brake fluid.
- After use and during storage, always seal the canister with the original lid.

| Art. No. | 892.0095 |
|-------------------|------------------------------|
| Colour | Yellow/Amber |
| Quantity | 5L |
| Dry Boiling Point | Min. + 265°C by DIN ISO 4925 |
| Wet Boiling Point | Min. + 175°C by DIN ISO 4925 |

BRAKE FLUID TESTER

Art. No. 715.53200



Handy tester for determining brake fluid quality (DOT4).

- 5 LEDs for accurate indication of water content in the brake fluid in stages of 0%, < 1%, approx. 2%, approx. 3%, > 4%
- Robust with protective cap for professional use
- For use in car, truck and motorcycle workshops and in service areas
- Battery not included



PVF COATED BRAKE LINES



Poly Vinyl Fluoride (PVF) coated steel brake lines.

- Extends the life of brake lines.
- Provides significant protection against rock salt, sand, and the more recently used and far more corrosive liquid sodium chloride.

| Tube Dia. | Length | Union | | Art. No. | P. Qty. |
|-----------|--------|-------------|-------------------|----------|---------|
| | | Thread dia. | TPI/ Thread Pitch | | |
| 3/16" | 12" | 3/8" | 24 | 889.312 | 10 |
| | 20" | 3/8" | 24 | 889.320 | |
| | 30" | 3/8" | 24 | 889.330 | |
| | 40" | 3/8" | 24 | 889.340 | |
| | 51" | 3/8" | 24 | 889.351 | |
| 1/4" | 12" | 7/16" | 24 | 889.412 | |
| | 30" | 7/16" | 24 | 889.430 | |
| | 40" | 7/16" | 24 | 889.440 | |
| | 51" | 7/16" | 24 | 889.451 | |
| | 60" | 7/16" | 24 | 889.460 | |
| 5/16" | 20" | 1/2" | 20 | 889.5201 | 5 |
| 3/8" | 20" | 5/8" | 18 | 889.620 | |

| Tube Dia. | Length | Union | | Art. No. | P. Qty. |
|--------------|--------|-------------|-------------------|----------|---------|
| | | Thread dia. | TPI/ Thread Pitch | | |
| 3/8" | 51" | 5/8" | 18 | 889.651 | 5 |
| | 60" | 5/8" | 18 | 889.660 | |
| | 72" | 5/8" | 18 | 889.672 | |
| 10 mm bubble | 8" | 10 mm | 1.0 bubble flare | 889.708 | |
| | 12" | 10 mm | 1.0 bubble flare | 889.712 | |
| | 20" | 10 mm | 1.0 bubble flare | 889.720 | |
| | 30" | 10 mm | 1.0 bubble flare | 889.730 | |
| | 40" | 10 mm | 1.0 bubble flare | 889.740 | |
| 10 mm invert | 60" | 10 mm | 1.0 bubble flare | 889.760 | |
| | 12" | 10 mm | 1.0 Invert flare | 889.812 | |
| | 20" | 10 mm | 1.0 Invert flare | 889.820 | |

PVF COATED BRAKE LINES



Poly Vinyl Fluoride (PVF) coated steel brake line coils.

- Extends the life of brake lines.
- Provides significant protection against rock salt, sand, and the more recently used and far more corrosive liquid sodium chloride.
- Very easy to bend and flare.

| Dia. | Length | Art. No. | P. Qty. |
|-------|--------|--------------|---------|
| 3/16" | 25' | 889.7 | 1 |
| 1/4" | 25' | 889.8 | |
| 5/16" | 25' | 889.9 | |

CUPRO NICKEL BRAKE LINES



CUPRO Nickel Brake Line coils.

- Far superior quality brake line that is unaffected by the effects of liquid calcium and rock salt solutions.
- Special alloy made of 88% copper, 10% nickel and 2% iron.
- Very high resistance to sand and road debris.
- Extruded seamlessly from an ingot.
- Meets S.A.E. standard 1677 for brake lines on surface vehicles.

| Dia. | Length | Art. No. | P. Qty. |
|-------|--------|--------------|---------|
| 3/16" | 25' | 889.3 | 1 |
| 1/4" | 25' | 889.4 | |
| 5/16" | 25' | 889.5 | |
| 3/8" | 25' | 889.6 | |

SINGLE SWIVEL CRIMPED AIR BRAKE ASSEMBLIES D.O.T.



D.O.T. approved air brake hose assemblies. One end swivels with MPT adapter, the other with rigid MPT adapter.

| Hose ID | Swivel End MPT | Rigid End MPT | Length | Art. No. | P. Qty. |
|---------|----------------|---------------|--------|----------------------|---------|
| 3/8" | 1/4" | 1/4" | 32" | 884.HAB-6-32B | 2 |
| 3/8" | 3/8" | 3/8" | 18" | 884.HAB-6-18C | |
| 3/8" | 3/8" | 3/8" | 24" | 884.HAB-6-24C | |
| 3/8" | 3/8" | 3/8" | 28" | 884.HAB-6-28C | |
| 3/8" | 3/8" | 3/8" | 30" | 884.HAB-6-30C | |
| 3/8" | 3/8" | 3/8" | 36" | 884.HAB-6-36C | |
| 3/8" | 3/8" | 3/8" | 48" | 884.HAB-6-48C | |
| 1/2" | 3/8" | 3/8" | 18" | 884.HAB-8-18C | |
| 1/2" | 3/8" | 3/8" | 20" | 884.HAB-8-20C | |
| 1/2" | 3/8" | 3/8" | 24" | 884.HAB-8-24C | |
| 1/2" | 3/8" | 3/8" | 28" | 884.HAB-8-28C | |
| 1/2" | 3/8" | 3/8" | 30" | 884.HAB-8-30C | |
| 1/2" | 3/8" | 3/8" | 32" | 884.HAB-8-32C | |
| 1/2" | 3/8" | 3/8" | 36" | 884.HAB-8-36C | |
| 1/2" | 3/8" | 3/8" | 42" | 884.HAB-8-42C | |
| 1/2" | 3/8" | 3/8" | 48" | 884.HAB-8-48C | |

STEEL BRAKE LINES



| Standard | | |
|-----------|--------|--------------------|
| Tube Size | Length | Art. No. |
| 3/16 | 12 | 884.BL-3-12 |
| | 20 | 884.BL-3-20 |
| | 51 | 884.BL-3-51 |
| | 60 | 884.BL-3-60 |
| 1/4 | 72 | 884.BL-3-72 |
| | 20 | 884.BL-4-20 |
| | 60 | 884.BL-4-60 |

| European Standard | | |
|-------------------|--------|---------------------|
| Tube Size | Length | Art. No. |
| 3/16 | 12 | 884.BLE-3-12 |
| | 20 | 884.BLE-3-20 |
| | 30 | 884.BLE-3-30 |
| | 60 | 884.BLE-3-60 |

| Armored | | |
|-----------|--------|---------------------|
| Tube Size | Length | Art. No. |
| 3/16 | 12 | 884.BLA-3-12 |
| | 30 | 884.BLA-3-30 |
| | 40 | 884.BLA-3-40 |
| | 60 | 884.BLA-3-60 |

Nuts are Colour Coded Green 10x1.0 mm
Thread Bubble Flare



| S.A.E. - 527 steel brake line tubing | | | |
|--------------------------------------|----------------|-------------------|---------------------|
| Outside Dia. | Wall Thickness | Coil Length (ft.) | Art. No. |
| 3/16 | .028 | 25 | 884.BLT-3-25 |
| 1/4 | | | 884.BLT-4-25 |
| 5/16 | | | 884.BLT-5-25 |

BRAKE LINE NUT AND ADAPTER KIT



Replaces old **Art. No. 884.BLN-KIT-1**

Art. No. 964.8895

| Description | Tube | Thread | Art. No. | Qty. |
|-----------------------------|------|-----------|----------------------|------|
| Union Coupling Tube to Tube | 3/16 | | 884.142-3 | 10 |
| Union Coupling | 1/4 | | 884.142-4 | 10 |
| Union Coupling | 5/16 | | 884.142-5 | 4 |
| Union Coupling | 3/16 | M10 x 1.0 | 884.142EU-3 | 1 |
| Union Coupling | 3/16 | M10 x 1.0 | 884.142JA-3 | 1 |
| Steel Nut | 3/16 | 3/8-24 | 884.S141-3 | 10 |
| Steel Nut | 3/16 | 7/16-24 | 884.S141-3716 | 10 |
| Flare Invert Steel Nut | 3/16 | 1/2-20 | 884.S141-31/2 | 10 |
| Steel Nut | 3/16 | 9/16-18 | 884.S141-3916 | 6 |
| Flare Invert Steel Nut | 1/4 | 7/16-24 | 884.S141-4 | 10 |
| Flare Invert Steel Nut | 1/4 | 1/2-20 | 884.S141-41/2 | 6 |
| Steel Nut | 1/4 | 9/16-18 | 884.S141-4916 | 6 |
| Flare Invert. Steel Nut | 5/16 | 1/2-20 | 884.S141-5 | 6 |
| Specialty Nuts | 3/16 | M10x1.0 | 884.SE141-3 | 10 |
| Invert. Special Nut 45° | 3/16 | M11x1.5 | 884.SE141311M | 6 |
| Invert. Special Nut 45° | 3/16 | M12x1.0 | 884.SE141312M | 6 |
| Invert. Special Nut 45° | 3/16 | M13x1.5 | 884.SE141313M | 6 |
| Adapter Tube to Tube EU | 3/16 | M10 x 1.0 | 884.SE143-3 | 1 |
| Fuel line Nut GM | 5/16 | 14mmx1.5 | 884.SFL514M | 4 |
| Fuel line Nut GM | 3/8 | 16mmx1.5 | 884.SFL616M | 4 |
| Specialty Nuts Jap Standard | 3/16 | M10x1.0 | 884.SJ141-3 | 5 |
| Adapter Tube to Tube JA | 3/16 | M10 x 1.0 | 884.SJ143-3 | 1 |
| Steel Nut Long Style | 3/16 | | 884.SL141-3 | 10 |
| Steel Nut Long Style | 1/4 | | 884.SL141-4 | 10 |
| Steel Nut Long Style | 3/16 | M10x1.0 | 884.SLJ141-3 | 5 |

BRAKE LATHE TIPS



AMMCO Models

Art. No. 690.7311



FMC Models

Art. No. 690.7312

Carbide inserts maintain sharp cutting tools for optimum performance

- Fits today's most popular brake lathe machines
- Carbide construction extends cutting life
- Reduced "chattering" during cutting



KWIK-WAY Models

Art. No. 690.7313

BRAKE BLEEDER SCREWS



Also available:

Brake Bleeder Screw Assortment Kit **Art. No. 965.989**



- Rubber caps for bleeder screws

- Replacement brake bleeder screws
- Allows unwanted air to be purged from braking systems

| Length | Outer Dia. | Collar Dia. | Inner Dia. | Art. No. | Qty. |
|---------------|---------------|--------------|----------------|-----------------|------|
| 7/8" / 22 mm | 7/16" / 11 mm | 1/2" / 13 mm | 7/32" / 5.5 mm | 989.9451 | 10 |
| 9/16" / 14 mm | 3/8" / 10 mm | 1/2" / 13 mm | 3/16" / 4.7 mm | 989.9450 | |

| Thread Dia. | Thread Pitch | Length | Art. No. | P. Qty. |
|-------------|--------------|----------|-----------------|---------|
| 3/8" | 3/8-24 | 1.36" | 989.9400 | 6 |
| 3/8" | 3/8-24 | 1.11" | 989.9402 | |
| 5/16" | 5/16-24 | 1.06" | 989.9403 | |
| 1/4" | 1/4-28 | .92" | 989.9404 | |
| 8 mm | M8x1.25 | 23.5 mm | 989.9405 | |
| 10 mm | M10x1.25 | 27.5 mm | 989.9406 | |
| 10 mm | M10x1.0 | 27.5 mm | 989.9407 | |
| 10 mm | M10x1.0 | 32.75 mm | 989.9409 | |
| 10 mm | M10x1.0 | 35.0 mm | 989.9410 | |
| 7 mm | M7x1.0 | 32.0 mm | 989.9411 | |
| 10 mm | M10x1.0 | 38.5 mm | 989.9412 | |
| 7 mm | M7x1.0 | 38.55 mm | 989.9413 | |
| 7/16" | 7/16-20 | 1.27" | 989.9415 | |
| 8 mm | M8x1.0 | 38.0 mm | 989.9416 | |
| 1/4" | 1/4-28 | 1.045" | 989.9417 | |
| 10 mm | M10x1.25 | 33.0 mm | 989.9421 | |
| 8 mm | M8x1.25 | 32.7 mm | 989.9422 | |
| 7/16" | 7/16-24 | 1.475" | 989.9427 | |
| 8 mm | M8-1.25 | 36.0 mm | 989.9428 | |
| 8 mm | M8-1.0 | 26.29 mm | 989.9430 | |

BRAKE LINE NUTS



Art. No. 889.500

M10 x 1.0

Straight Form

Brake Line Dia.: 4.75 mm

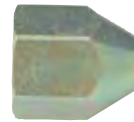


Art. No. 889.501

M10 x 1.0

V-Form

Brake Line Dia.: 4.75 mm



Art. No. 889.507

M10 x 1.0

3/8" UNF-24

Brake Line Dia.: 4.75 mm



Art. No. 889.508

M12 x 1.0

Brake Line Dia: 4.75 mm



Art. No. 889.509

M12 x 1.0

V-Form Brake Line Dia.: 6 mm



Art. No. 889.510

M10 x 1.0 (long)

Brake Line Dia.: 4.75 mm



Art. No. 889.523

M10 x 1

Brake Line Union

Actual Size Not Shown



Steel Brake Line Tubing

| Outside Dia. | Wall Thickness | Art. No. |
|--------------|----------------|---------------------|
| 3/16 | 0.28 | 884.BLT-3-25 |
| 1/4 | 0.28 | 884.BLT-4-25 |
| 5/16 | 0.28 | 884.BLT-5-25 |



Art. No. 964.889

Assortment

Contents: 12 popular sizes, size range 3/8" - 1/2" (10 mm - 12 mm)

EXHAUST ASSEMBLY PASTE



Art. No. 890.100045 140 mL

- Soft paste for fast, easy and totally gas tight sealing of flanges and sleeve fittings in the exhaust system
- No welding necessary
- The paste becomes metal hard with exhaust heat
- Temperature resistance up to approx. 700 °C (1292 °F)
- Seals permanently
- Shock and vibration resistant
- No corrosion in joints, therefore easy disassembly
- No welding required! This accommodates a safe, quick, exhaust system installation

LIQUID METAL



Art. No. 893.449 178 mL

The ideal, quick repair system for fitters and workshops in the field of metalworking. Especially good for filling moulds, sealing and filling in leaks.

- Fe 1 is a high grade, two-component reaction resin system which is formulated specifically to obtain metalline characteristics.
- The ideal mixing ratio of the components (A:B = 1:1; press two strands of equal length out of the tubes) makes it practically impossible to mix the repair compound incorrectly.
- Fe 1 is specifically designed for small repair jobs which must be performed quickly.
- Fe 1 can be applied with a spatula without it running down, so it can also be used for work on a vertical plane.
- After hardening, Liquid Metal Fe 1 can be machined like metal without difficulty by turning, milling, drilling, filling or thread cutting.

Note: Works on various metals such as aluminum, copper and steel.

| Application Table | | | | |
|-------------------|-------------------|--|-----------------------|-----------------|
| Abrasion on: | Sealing leaks in: | Shrinkage cavities in: | Running-in damage to: | Manufacture of: |
| Pump casings | Radiators | Grey cast iron during casting operations | Shafts | Moulds |
| Impellers | Tanks | | Hydraulic cylinders | Holders |
| Propellers | Water reservoirs | Grey cast iron when machining | Engine blocks | Models |
| Rudders | Water pipes | | Bearing seats | Guides |
| Heat exchangers | Oil lines | | Crank cases | Prototypes |
| Condensers | Housings | | | |
| Dust lines | | | | |
| Gravity chutes | | | | |
| Hoppers | | | | |
| Studs | | | | |
| Torn-out threads | | | | |

| Technical Information | |
|----------------------------------|------------------------------------|
| Mixing Ratio | Component A: Component B = 1:1 |
| Initial setting time | 7-12 min. (room temperature) |
| Full hardening time | 4-24 h (room temperature) |
| Pot life | 5 min. / 20 g (room temperature) |
| Consistency | Cannot run down |
| Spec. gravity | 2.80 with Components A and B mixed |
| Compressive strength | 70 N/mm ² |
| Tensile strength | 12.5 N/mm ² |
| Shear tensile strength | 14.5 N/mm ² |
| Thermal stability | 0.7 Kcal/mh°C, -60°C to +120°C |
| Dimensional stability / Martens | +40°C |
| Coefficient of thermal expansion | +40x10-6/1°C |
| Malleable | up to +120°C/1h |
| Storage stability | Min. 2 years |



Repair of small-size engine cover



Bearing seats, repaired and then reworked

METAL EPOXY STICK



Art. No. 893.449012 114 g

Features:

- Hand kneadable, steel reinforced epoxy putty that easily mixes to provide fast repairs.
- This putty-like consistency eliminates drops and runs for a “no mess” application.
- Cures like hardened steel. Can be tapped, drilled, sanded, machined and filed.
- Excellent adhesion to metal, plastic, glass, and copper.

Instructions:

- The surface must be clean, and free from grease. Cut off the quantity required and mix putty together until an even color has been achieved.

| Technical Data: | |
|----------------------------|--|
| Work Life | 3 to 5 minutes |
| Compression Strength | 1200 PSI (ASTM D-695) |
| Lap Shear Tensile Strength | 800 – 1000 (ASTM D-2240) |
| Chemical Resistance | Hydrocarbon, alcohols, esters, halocarbons, salt-water, dilute acids and bases |
| Electrical Resistance | 30,000 megohms (ASTM D-257) |
| Dielectric Strength | 300 volts/mil (ASTM D-149) |

DIESEL INJECTOR CLEANER



Art. No. 5861.011400 473 mL

- Helps remove and prevent fuel-related deposits such as carbon and varnish in injectors and fuel pump
- Increases operating efficiency of all types of diesel engines
- Improves performance (increased power and torque)
- Decreases emissions and fuel consumption
- Improves flow properties of diesel fuels in cold weather by preventing wax build-up in the fuel, for improved cold-weather starting
- Helps extend fuel injector, fuel pump and fuel filter life by reducing wear
- Methyl-hydrate free, alcohol free
- 1 container treats up to 125 gallons (475 L) of diesel fuel

AIR INTAKE AND THROTTLE VALVE CLEANER



Art. No. 5861.113500 432 g

Special, highly active system cleaner for 2-cycle and 4-cycle engines.

Features:

Removes deposits and contaminants in the air intake and throttle valve and carburetors area. No dismantling work required. Calibrated bores and nozzles can also be cleaned with it. Suitable for catalytic converters.

Smooth engine running

- Faults caused by soiled throttle valves or carburetors are eliminated.

Outstanding cleaning performance

- Optimum carburetor performance
- Faultless throttle valve operation

Overhead valve

- Hard-to-access spots can be reached

Application:

Spray the parts to be cleaned heavily while the engine is not running and allow the active substance to soak in for 2 to 3 minutes. Then spray into the intake and throttle valve area with the engine running and increase the speed slightly to loosen deposits.

Note: Replacement for 893.10 Carburetor Cleaner

STARTING FLUID



Art. No. 890.991010 212 g

Würth Starting Fluid is the perfect solution for engines that won't start in cold, wet and freezing temperatures.

- Designed to instantly start gasoline engines
- For use in extreme cold or humid weather
- Contains lubricants and anti-corrosive additives.
- Saves time, battery and cylinder wear.
- Improved spray pattern

Application:

Hold can in upright position. Spray 1 or 2 seconds bursts into air intake system (air cleaner, carburetor or intake manifold). Avoid excessive application. With air cleaner in place, start engine - Do not start while spraying. If engine fails to start after you have done this several times have your ignition system checked.

Caution: Do not use in Diesel engine with glow plug.

Note: Please note that our product contains approximately 40-45% of ether, making it less hazardous and flammable than the standard products; it also contains a blend of additives to make it more efficient in cold starting situations.

V-BELT SPRAY



Art. No. 893.230 269 g

- Prevents slipping, transfers full working output, eliminates squeaking
- Eliminates readjustment work with minor belt slip due to cold, moisture or due to normal elongation
- AOX-free

Use:

Fit spray head and spray along belt with spray tube close to inside of belt. Or spray on inside point with engine running for approx. 5 seconds. Clean running surfaces before initial use.

AIR INTAKE SYSTEM CLEANER



Art. No. 5861.112400 425 g

Oxygen sensor safe and catalytic converter safe

- Cleans air throttle valves
- Cleans throttle bodies
- Cleans idle air control valves
- Residual product may be absorbed with a shop cloth
- Idle air control valves may be cleaned if removed
- Throttle valve linkages may be also sprayed clean with this product.

Note: Extremely flammable, do not use unless the vehicle is cool.

ENGINE FLUSH AND FUEL INJECTOR CLEANER



Fuel Injector and Valve Cleaner

473 mL Available separately as

Art. No. 5861.111301

A powerful fuel additive, formulated using technologically- advanced deposit-control additive chemistry that will provide the following benefits when used as directed.

- Rapid clean-up performance on fuel injectors
- Clean-up performance on intake manifolds, intake valves & ports and the entire fuel system (fuel lines, fuel tank)
- Improved fuel combustion resulting in increased power and performance
- Reduced fuel consumption and emissions
- Elimination of knocking and pinging caused by deposit build-up (hot spots) in the combustion chambers and prevention of engine octane requirement increase
- Oxygen sensor and catalytic converter safe
- Meets & Exceeds OEM Service Requirements

Engine Flush

350 mL

Art. No. 5861.310401

A proprietary blend of solvents, detergents & dispersant additives that will effectively dissolve oil contaminants to aid in their removal from the engine.

- Will thin out heavily-oxidized or thickened oil
- Will break down sludge and varnish deposits which can then be drained out with the used oil

Note: Engine Service Kit **Art. No. 965.8909** is discontinued. We will continue to carry Engine Flush **Art. No. 5861.310401** and Fuel Injector and Valve Cleaner **Art. No. 5861.111301** (sold individually)

ENGINE SHAMPOO



Art. No. 893.013055 454 g

Cleans and degreases engines or any oily metal surfaces

- A clean engine allows heat to dissipate more quickly, thus running more efficiently.

SEALANT REMOVER



Art. No. 893.1000 220 g

Removes sealant materials, adhesives, paints in only a few minutes

- In only a few minutes this product removes the remains of solid gaskets, e.g. cylinder head and exhaust manifold seals, hardened adhesive, e.g. cyanogen acrylate and anaerobic products, paints, lacquers, oil, grease, resin
- Can be used on objects made of metal, wood, glass, ceramic, polyethylene and polypropylene
- Simple application method to save time
- Can also be used on vertical surfaces
- Surfaces of polished metals protected by a corrosion protection additive

INJECTOR-EX INJECTOR SOLVENT



Mineral oil free injector and spark plug solvent with KENA® microfluid formula

Special product for loosening injectors and spark plugs in assemblies and engines

- Gentle action, as seized connections can be loosened without substantial force application and the use of tools
- Product has long-lasting effect, that penetrates deeply and thus ensures optimal work results
- Can be used on both diesel and gasoline engines

KENA® microfluid technology

- Excellent creeping characteristics facilitates deep penetration of the product

- Very heavily coked injectors and spark plugs are efficiently loosened
- Effect is enhanced by slow evaporation, rust is transformed and coking is solvated
- Very cost-effective application

Safe for people and the environment

- Owing to highly effective, mild and environmentally safe ingredients

Application:

Special product for loosening rusted and oxidized injection nozzles, injectors and spark plugs in engines and assemblies.

| Container | Contents | Art. No. |
|-----------|----------|------------|
| Aerosol | 190 g | 893.300250 |

ENGINE WASH



Environmentally friendly engine cleaner concentrate for the engine, engine compartment and gear box

An element of our ecologically sound product range

- State-of-the-art product reducing environmental impact
- Reduces potential danger in daily use
- Saves raw material resources
- Prevents waste
- Highest quality for highest demand

Characteristics:

- Removes oil, grease and other dirt thoroughly and quickly
- Very high cleaning performance
- Biodegradable >95 % (OECD test and closed flask test)
- Rapidly separating according to Ö-Norm test B 5105, so that dirt containing oil and grease is not emulsified but infiltrated and washed out. Therefore the waste water generated can be separated in a light-oil separator
- Does not contain AOX compounds, organic solvents, phosphate or complex agents

- Slightly viscous resulting in optimum cleaning results even on vertical surfaces
- Gentle on skin
- Not aggressive to sensitive surfaces
- Silicone free

Effect:

- Engine wash is slightly viscous causing the cleaner to adhere even to vertical surfaces. During reacting time the cleaner can then penetrate the dirt and remove it thoroughly.
- Can be diluted up to 1:10!

Result:

- Engine, engine compartment and gear box are cleaned thoroughly and environmentally compatible, whereas sensitive surfaces, e.g. aluminum, tin, zinc, painted surfaces, plastic components, and rubber are not affected on account of missing aggressive agents and a neutral pH value.

| Contents | Art. No. |
|----------|-----------|
| 5 L | 893.01305 |
| 20 L | 893.01320 |

| Technical Information | |
|-----------------------|------|
| pH Value | 8.5 |
| Dilution | 1:10 |

EVAPORATOR CLEANER AND DEODOURIZER



Art. No. 893.764500 482 g

Eliminates odours caused by mold, mildew, fungus and other contaminants such as tobacco, in the A/C evaporator

- Foaming cleanser eliminates stale odour fast
- Includes improved spray hose
- Safe for all mobile and stationary A/C evaporators
- Fast acting, long lasting odour control formula
- One can be used for multiple vehicles
- To be used into drain tube (source of condensation drip)
- The foam will expand in the evaporator, break down and drain from the evaporator through the drain tube
- Safe for all the sensors and electronics you find in an evaporator.

2K EUROPRIMER 4:1 GREY 3.89L + STANDARD ACTIVATOR 946ML



CAUTION: always test the compatibility of this product with your desired paint system. Do not use the product in temperatures below 16°C (60°F). The application temperatures will affect dry times and performance.

| Product | Content | Art. No. | P. Qty. |
|---------------------|---------|-------------|---------|
| 4:1 Europrimer Grey | 3.98l | 5866.400116 | 1 |
| Standard activator | 946ml | 5866.400117 | 1 |

| Mixing Directions | |
|-------------------|-----------|
| Primer | Activator |
| 4 parts | 1 part |

Note: In hot and humid conditions (temperatures above 27°C/85°F), the use of a slow activator may be required. Film thickness, flash times, and temperatures may affect sanding time. In extreme heat, the use of reducer (10% maximum) may be needed.

Pot life at 24°C (75°F) with the standard activator – 1-1.5 hours

Note: Pot life will shorten as temperatures increase. Products are not recommended to be used in temperatures below 16°C (60°F).

A European style, premium quality, two component, acrylic urethane primer that can be applied directly to metal.

Features:

- 2-component (2K) primer offers excellent corrosion protection, adhesion and great scratch resistant properties
- High build acrylic urethane formula provides an improved fill and build properties

Advantages:

- Can be used as a direct to metal coating
- Diverse compatibility with a range of color systems
- Impressive coverage and build that provides a great protective coating

Suitable Surfaces:

- Steel, galvanized steel, aluminum and fiberglass surfaces that are properly cleaned, sanded and treated properly
- OEM coatings and body filler coatings applied that are cured and sanded

Surface Preparation:

- Wash area thoroughly with soap and water to remove contaminants that solvent based cleaners cannot remove efficiently. All substrates must be degreased and sanded. All rust must be removed.
- Clean area with a solvent cleaner and wipe dry.
- If necessary, sand repair with 80 grit followed by 180 grit to feather at broken film areas. Clean area with a grease and wax remover
- Completely sand surface with 180-220 grit sand paper and re-clean with a solvent cleaner suitable for final cleaning step.

Application:

- Apply 2-3 coats with 10 minutes flash time at 24°C (75°F) and 50% relative humidity between each coat. Allow 45-60 minutes of drying before sanding (3 complete wet coats is 4-5 millimeters to dry). For best results, do not exceed 5mm dry film thickness
- A final blocking with 600 grit or finer sandpaper is recommended before top coating

Reducers:

- Adding a reducer is not a requirement or a recommendation. However, urethane grade reducers can be used up to 20% by volume of the primer and activator combination
- Europrimer Urethane reducers (*Slow, Medium, fast*) – coming soon

Dry Time:

Dry times at 24°C (75°F) and 50% relative humidity

- Flash time – 5-10 minutes
 - To sand – 60-90 minutes
 - To topcoat – 60-90 minutes
- Force drying at 60°C (140°F)
- Purge time – 15 minutes
 - Bake time at 60°C – 20 minutes

Repairing and Recoating:

- Direct to metal 2K Europrimer must be sanded prior to recoating after 24 hours of drying at 24°C (75°F)

EUROCLEAR PRO 2:1 URETHANE CLEARCOAT



A European style, low VOC, medium solid 2:1 mix urethane clearcoat formulation

Features:

- Versatility with three activators: Fast, Standard, Slow
- High gloss, fast dry finish with superior depth of image that will perform with water-based and solvent-based basecoat systems
- Easy to spray, polish and buff.

Suitable surfaces:

- Automotive refinish basecoats (water and solvent based)
- Automotive refinish single stage
- Existing finishes that have been sanded and cleaned

Note: Clearcoat should not be applied over acrylic lacquers or existing finishes which have not been sanded.

Advantages:

- Easy application, polishing and buffing
- Durable, high gloss
- Superior depth of image
- Fast drying

| Product | Content | Art. No. | P. Qty. |
|--------------------|---------|--------------------|---------|
| 2:1 Clearcoat | 5 L | 5866.200106 | 1 |
| Slow activator | 2.5 L | 5866.400110 | |
| Standard activator | | 5866.400111 | |
| Fast activator | | 5866.400112 | |

Dry and Flash Time

| | Slow | Standard | Fast |
|------------|-----------|-----------|----------|
| Flash Time | 15-20 min | 10-15 min | 5-10 min |
| Tack Free | 1 hr | 45 min | 20 min |
| To Sand | 6-8 hrs | 3-6 hrs | 3-6 hrs |
| To Buff | 6-8 hrs | 3-6 hrs | 3-6 hrs |
| To Deliver | 6-8 hrs | 3-6 hrs | 3-6 hrs |

Pot Life

| Activator | Time |
|-----------|-----------|
| Slow | 1.5 hrs |
| Standard | 35-45 min |
| Fast | 25-35 min |

Note: Pot Life will shorten as temperatures increase. Not recommended for use in temperatures below 16°C.

Mix Ratio: 2:1 (Clearcoat 2 parts : Activator 1 part)

Stir thoroughly between each addition and strain before spraying material

Application:

1. Allow the final coat of basecoat to dry in accordance with manufacturer's directions.
2. Use a tack cloth to remove any surface contaminants that may have settled on the basecoat.
3. Apply two full wet coats to a maximum of 6 mils wet, allowing 10 to 15 minutes flash time between coats or as conditions dictate.

Notes: DO NOT apply over non catalyzed acrylic or synthetic enamels or acrylic lacquer finishes.

- It is important to test the compatibility of this product with your paint system. This product is not recommended for use in temperatures below 16°C.
- The use below these temperatures will affect dry times, performance and finish. Always keep containers closed to prevent moisture contamination.

Force Drying:

- Purge Time: 40 min
- Bake Time: at 140°F: 40 min
- Allow the final coat to flash for 20 minutes before baking. May be wet sanded and buffed after 1 hour of cool down time. Baking will increase gloss.

Repairing and Recoating:

- May be recoated after 8 hours of dry time or upon cool down after force drying. After 24 hours, Euroclear must be sanded with 1200 to 1500 grit before recoating.

Many factors beyond Würth's control and uniquely within user's knowledge and control can affect the use and performance of a Würth product in a particular application. Given the variety of factors that can affect the use and performance of a Würth product, user is solely responsible for evaluating the Würth product and determining whether it is fit for a particular purpose and suitable for user's method of application. Würth makes no warranty, either expressed or implied, and specifically excludes any implied warranties or conditions of quality, whether of merchantability, fitness or otherwise. On any claim, irrespective of the legal theory invoked, Würth's total liability shall not exceed the purchase price of the product. In no event shall Würth be liable for any damages of any type, or for loss.

EUROCLEAR 4:1 URETHANE CLEARCOAT



A high solids formulation that offers exceptional value and versatility for spot, panel, and overall repair.

Features:

- Versatility with three activators: Fast, Standard, Slow
- High gloss, fast dry finish with easy buffing that will perform with most water-based and solvent-based basecoat systems

Suitable surfaces:

- Automotive refinish basecoats (water and solvent based)
- Automotive refinish single stage
- Existing finishes that have been sanded and cleaned

Advantages:

- Easy to use
- Durable, high gloss
- Versatility and value
- High solids formulation
- Fast drying

Note: Clearcoat should not be applied over acrylic lacquers or existing finishes which have not been sanded.

| Product | Content | Art. No. | P. Qty. |
|--------------------|---------|--------------------|---------|
| 4:1 Clearcoat | 3.78 L | 5866.200107 | 1 |
| Slow activator | 0.95 L | 5866.400113 | |
| Standard activator | | 5866.400114 | |
| Fast activator | | 5866.400115 | |

Dry and Flash Time

| | Slow | Standard | Fast |
|------------|-----------|-----------|----------|
| Flash Time | 15-20 min | 10-15 min | 5-10 min |
| Tack Free | 1 hr | 45 min | 20 min |
| To Sand | 6-8 hrs | 3-6 hrs | 3-6 hrs |
| To Buff | 6-8 hrs | 3-6 hrs | 3-6 hrs |
| To Deliver | 6-8 hrs | 3-6 hrs | 3-6 hrs |

Pot Life

| Activator | Time |
|-----------|-----------|
| Slow | 1.5 hrs |
| Standard | 35-45 min |
| Fast | 25-35 min |

Note: Pot Life will shorten as temperatures increase. Not recommended for use in temperatures below 16°C.

Mix Ratio: 4:1 (Clearcoat 4 parts : Activator 1 part)
Stir thoroughly between each addition and strain before spraying material

Application:

1. Allow the final coat of basecoat to dry in accordance with manufacturer's directions.
2. Use a tack cloth to remove any surface contaminants that may have settled on the basecoat.
3. Apply two full wet coats to a maximum of 6 mils wet, allowing 10 to 15 minutes flash time between coats or as conditions dictate.

Notes: **DO NOT** apply over non catalyzed acrylic or synthetic enamels or acrylic lacquer finishes.

- It is important to test the compatibility of this product with your paint system. This product is not recommended for use in temperatures below 16°C. The use below these temperatures will affect dry times, performance and finish. Always keep containers closed to prevent moisture contamination.

Force Drying:

- Purge Time: 40 min
- Bake Time: at 140°F: 40 min
- Allow the final coat to flash for 20 minutes before baking. May be wet sanded and buffed after 1 hour of cool down time. Baking will increase gloss.

Repairing and Recoating:

- May be recoated after 8 hours of dry time or upon cool down after force drying. After 24 hours, Euroclear must be sanded with 1200 to 1500 grit before recoating.

Many factors beyond Würth's control and uniquely within user's knowledge and control can affect the use and performance of a Würth product in a particular application. Given the variety of factors that can affect the use and performance of a Würth product, user is solely responsible for evaluating the Würth product and determining whether it is fit for a particular purpose and suitable for user's method of application. Würth makes no warranty, either expressed or implied, and specifically excludes any implied warranties or conditions of quality, whether of merchantability, fitness or otherwise. On any claim, irrespective of the legal theory invoked, Würth's total liability shall not exceed the purchase price of the product. In no event shall Würth be liable for any damages of any type, or for loss.

2K RAPID PRIMER FILLER



Universal 2 component primer filler for repairing small and medium sized surfaces on plain steel and existing paints.

Save time and money by working smarter.

- Smooth dispersion of product
- Quick drying
- Excellent sanding and corrosion protection

Benefits:

- Highly suitable for use in minor damage repair
- Can be used as a wet-on-wet application without intermediate sanding

How it works...

The application surface must be clean, dry and grease-free. Lightly sand problematic surface(s). Shake can well for at least 2 minutes before spraying. Remove (red) push button from the cover cap, place it on the pin at the bottom of the can and activate by spraying. Remove push button and dispose of it.

Shake the can well for at least 2 minutes again after spraying. Apply two to three spray coats at a distance of 20 to 30 cm. Allow 10 to 15 minutes between coats. The treated surface can be painted over with all common topcoat paint systems.

DRYING TIMES: Air-Drying: 60 mins / 20°C
IR-Drying: 10 mins / 60°C

| Colour | Contents | Art. No. | P. Qty. |
|-----------|----------|--------------------|---------|
| Dark Grey | 366 g | 5867.000122 | 1 |

2K RAPID CLEAR COAT



Clear varnish for permanent sealing of touched-up surfaces and newly painted small parts.

Working efficiently cuts costs. Very quick drying, even dispersion two-component clear varnish with excellent resistance to weather, chemicals and gasoline

Advantages:

- High throughput rate
- Fast drying
- Constant atomizing pressure until the can is empty
- Excellent abrasion and scratch resistance
- Suited for small damage repair work

How it works...

Shake can well for at least 2 minutes before spraying. Remove red push button from the cap, place it on the pin on the bottom of the can, push the pin in until it stops and then remove the red push button and dispose of it.

Shake the can well for another 2 minutes. Carry out one or two thin spray passes over the prepared surface.

Be sure to observe the intermediate flash-off time!

Yield per can = approx. 0.5 to 0.75 m²

Dust dry: 7 min, Touch-dry: 6 hrs

NOTE: Processing time after activation is a maximum of 1.4 hours. After using the can, turn it upside down and spray until valve is empty.

| Colour | Contents | Art. No. | P. Qty. |
|--------|----------|--------------------|---------|
| Clear | 313 g | 5867.000124 | 1 |

VAKU 20



Fine filler with high elasticity for closing off existing pores and for repairing small scratches, grooves and uneven areas.

Features:

- Quick drying
- Non-porous
- Brilliant white pigmentation
- Sandable

Benefits:

- Colour is perfectly suited for use in model and furniture construction
- Fast, uniform filling of uneven surfaces
- Efficiency reduces further processing (sanding, filling and application of top-coat)
- User-friendly

Applications:

| | |
|------------|---|
| Auto/Cargo | For eliminating minor paint damage, scratches and for closing existing pores and uneven areas in the knifing and universal filler area. |
| Metal | Extremely fine surface processing for an optimum finish |
| Wood | Can be used for all types of wood as fine or universal fillers. Not suitable for oily woods. Do not use on heavily weathered surfaces. |

| Description | Colour | Contents | Art. No. | P. Qty. |
|-------------|--------|----------------------|-------------------|---------|
| Vaku 20 | White | 2 kg + 40 g hardener | 892.60202 | 1 |
| Hardener | Red | 40 g | 892.600004 | |

Note: Vaku 20 Fine Filler was formerly known as MAXI Fine.



Mixing ratio:
2% hardener



Application time:
4-5 mins @
20°C (68°F)



Curing time:
20-30 mins @
20°C (68°F)



Sanding as
required:
80-280 grit

Note: Not suitable for oily woods. Mixing ratio must be measured precisely! Will not harden below 10°C (50°F). Temperature resistant up to 80°C (176°F).

VAKU 30



Universal filler with outstanding properties. Can be used as knifing and fine filler.

Features:

- Excellent adhesion on iron, steel, aluminum, galvanized and hot-galvanized surfaces, GFRP and wood
- Quick drying
- Optimum elasticity for achieving closed, smooth surfaces
- Sandable

Benefits:

- Excellent preparation for finishing work
- No chipping at edges or reworking with fine filler required
- Fast, uniform filling of uneven surfaces
- Efficiency reduces further processing (sanding, filling and application of top-coat)
- User-friendly

Applications:

| | |
|------------|--|
| Auto/Cargo | In vehicle construction and in motor vehicle repair with universal adhesion on steel, aluminum, zinc, and GFRP. |
| Metal | For filling shrinkage pores/cavities and welding spots in machine construction. Universal adhesion on steel, aluminum and zinc. |
| Wood | Excellent as a repair putty for use in the construction industry, wood restoration, and window and door construction. Not suitable for oily woods. Do not use on heavily weathered surfaces. |

| Description | Colour | Contents | Art. No. | P. Qty. |
|-------------|--------|----------------------|-------------------|---------|
| Vaku 30 | Beige | 2 kg + 40 g hardener | 892.60302 | 1 |
| Hardener | Red | 40 g | 892.600004 | |

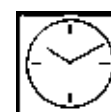
Note: Vaku 30 Universal Filler was formerly known as MAXI Plast.



Mixing ratio:
2% hardener



Application time:
4-5 mins @ 20°C
(68°F)



Curing time:
20-30 mins @
20°C (68°F)



Sanding as
required:
80-280 grit

Note: Not suitable for oily woods. Mixing ratio must be measured precisely! Will not harden below 10°C (50°F). Temperature resistant up to 80°C (176°F).

GOLD BODY FILLER



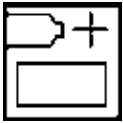
Art. No. 892.68040 3.7 kg

Premium body filler compound, designed to fill and final finish in one step

Features:

- Excellent adhesion to steel, galvanized metal and aluminum
- Can be used as a sandable body filler or sandable glazing putty
- Superior featheredge properties
- Stain free, tack free
- Hardener included
- Colour: Gold

Note: When applying to bumpers, an adhesion promoter must be used, such as our Olefenic Plastic Adhesion Promoter Art. No. 893.91013.



Mixing ratio:
2% hardener



Application time:
3-5 mins



Curing time:
20 mins



Sanding as required:
40-120 grit for body filling,
120-240 grit for glazing

WÜRTH FINAL TOUCH



Art. No. 892.67900 710 mL

Self-levelling fine finish glazing putty for pin holes, sanding scratches and minor imperfections

Features:

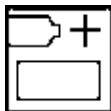
- Can be spread over a much larger surface area than conventional putties
- Allows imperfections to be filled without altering contour
- Can be spread extremely thin and sanded to a fine feather edge
- Hardener included
- Colour: Green

Applications:

Use on sanded substrates, steel, galvanized steel, and aluminum

Note:

Do not mix with fibre filled body fillers. When applying to bumpers, an adhesion promoter must be used, such as our Olefenic Plastic Adhesion Promoter Art. No. 893.91013.



Mixing ratio:
2% hardener



Application time:
3-5 mins



Curing time:
20 mins



Sanding as required:
120-180 grit

THICK PRIMER FILLER



Corrosion protection with excellent filling and covering power for metallic surfaces

Very good adhesion

Adheres to aluminum, bare and galvanized sheet metal, old paint, etc.

Long-lasting corrosion protection

Quick drying

Depending on layer thickness, can be painted over in approx. 10 - 15 min.

Optimum covering and filling power

Easy, professional covering of small uneven areas, scratches and traces of sanding.

Very good stretching and run-off behaviour

Heat resistant up to 110 °C (230 °F)

Very easy to sand

VOC*-compliant

Solvent reduced, Complies with the VOC minimum, content specified in the VOC Directive (1999/13/EC)

* Volatile Organic Compound

Properties:

Flexible thick primer filler with short drying time, corrosion protection and very good adhesion properties, also in conjunction with PU and MS polymer sealing compounds. For professional repair of small uneven areas, scratches and traces of sanding.

Applications:

Spot repair, accident repair, body repair, paint work.

| Description | Colour | Contents in mL | Art. No. |
|---------------------|--------|----------------|----------|
| Thick Primer Filler | Grey | 372 g | 893.2121 |

BODY FILLER ADDITIVE



Art. No. 892.68050 473 mL

Restores dry body fillers, reduces pinholes

Properties:

- Use to change the texture of any body filler
- Restores the condition of dried-up body fillers

SET OF PUTTY KNIVES



Art. No. 993.1100

- Plastic spreader set in 5, 8, 10 and 12 cm widths
- For the application of 1K and 2K putty/filler materials
- Highly flexible
- For filling and remodelling work
- Pack of 4

PUTTY MIXING BOARD



Art. No. 891.586417

The putty mixing board is a very beneficial tool for every professional body shop. It simplifies the mixing of putty materials.

Features:

- Contains 100 silicone free layers of specially impregnated paper
- Comes with a quality spreader

Benefits:

- Simplifies the mixing of putty materials
- Increases productivity; no searching for a quality medium to mix the putty on

STAINLESS STEEL JAPANESE SPATULA SET



Art. No.695.940930 4 pcs

Rustproof stainless steel
Acid-resistant, high-quality plastic back

Applications:

- For applying and smoothing filler and plaster on smaller surfaces

| Contents of set | |
|-----------------|-----|
| Width (mm) | Qty |
| 50 | 1 |
| 80 | |
| 100 | |
| 120 | |

Use with:
Würth VAKU Fillers
 Prefix 892...



PAINT MIXING CUPS AND LIDS



Paint mixing cups with measurement scale printed on the inside for greater accuracy and ease of use

Features:

- Disposable cups for mixing and storing paint materials and stains
- Integrated mixing scales (1:1, 2:1, 3:1, 4:1 and 5:1)

| Description | Size (mL) | Art. No. | P. Qty |
|-------------|-----------|-------------------|--------|
| Cup | 385 | 705.800110 | 25 |
| | 750 | 705.800120 | |
| | 1400 | 705.800130 | |
| Lid | 385 | 705.800111 | |
| | 750 | 705.800121 | |
| | 1400 | 705.800131 | |

WÜRTH REPLACEABLE CUP SYSTEM LID AND FILTERS



Features:

- Patented lid system with automatic ventilation of cup for constant pressure conditions and perfect spraying pattern.
- Used in conjunction with paint mixing cup (Art. No. 705.800120)
- Integrated air-flow/paint-stop valve

| Designation | Art. No. | P. Qty. |
|--|-------------------|---------|
| RCS 0.75 l. lid for Würth paint mixing cup | 705.800161 | 100 |
| 125 micrometer filter strainer for the lid of the Würth Replaceable Cup System (blue) | 705.800152 | |
| 200 micrometer filter strainer for the lid of the Würth Replaceable Cup System (green) | 705.800162 | |

ADAPTER FOR WÜRTH REPLACEABLE CUP SYSTEM (RCS)



| Figure | Designation | Art. No. | P. Qty. |
|--------|--|------------|---------|
| 1 | RCS adapter for IWATA airbrushes with 1.6 x 1.5" connecting thread | 891.700225 | 1 |
| 2 | RCS adapter for SATA airbrushes with 1.6 x 1.5" connecting thread (incl. Würth AP and AP HVLP) | 891.700226 | |
| 3 | RCS adapter for Devilbiss airbrushes with 1.6 x 1.5" connecting thread | 891.700227 | |
| 4 | RCS adapter for SATA airbrushes with QCC connection | 891.700228 | |

SPRAYABLE SEAM SEALER



| Colour | Contents | Art. No. |
|--------|----------|------------|
| Black | 290 ml | 893.910400 |
| White | | 893.910401 |
| Grey | | 893.910402 |
| Beige | | 893.910403 |

Single component, MS polymer-based sealant range.

- Waterproof, cures to result in a soft and elastic consistency with air humidity.
- Free of isocyanate.
- Does not need a primer (preliminary tests recommended).
- Fully cured in approximately 24 hours. (~3mm/25h - At 23°C and 50% Relative humidity)
- Can be used with a caulking gun or spray equipment.
- Where applied it improves the resistance against stone chip and other attacks to the car body.
- Can be easily extruded and tooled for sealing overlapping seams, welded seams and construction seams in the automotive and industrial field.

- Effectively bonds to steel, aluminum, galvanized metal, fiberglass, urethane, epoxy, polyester, water-based primers, glass, and many plastics

Applications:

Application surface must be free of dust, oil, wax, grease or any other contaminant that will disrupt bonding. Any old paint residues or adhesives should be removed completely before applying the product on the target surfaces.

Designed to be used in industrial and automotive applications such as interior and exterior body seams (door skins, rocker panels, rear body panels, trunk seams, floor pans, etc.)

Compatible with:

360 Rotating nozzle Art. No. 891.6533
Pneumatic Application Gun PS 3 Art. No. 891.628
Combifix gun Art. No. 891.6286

BRUSHABLE SEAM SEALER



Art. No. 890.1021 932 ml

Features:

- Seals seams and joints that are spot welded, riveted or bolted
- Brushable, low odour formula
- Duplicates OEM appearance
- Will not sag or crack
- Permanently flexible
- Permanent adhesion to bare or painted surfaces, will adhere wet or dry
- Temperature range from -17 °C to +80 °C (-13 °F to +176 °F)
- Touch dry/paintable in 20-30 mins, full cure in 4-8 hours
- Light grey

SPECIAL BEADING NOZZLE



Art. No. 891.660

Professional original bead (OEM)

- Enables the user to save time and match the original manufacturers finish.
- Customized bead sizes from 6 mm - 13 mm (1/4" - 1/2").
- Can be used with all Würth urethanes.

JOINT AND SEAM SEALER



A permanently flexible adhesive sealant for industrial and automotive maintenance

- This is a high-performance sealant, which exhibits good physical properties including excellent adhesion to a variety of materials
- Surface must be clean, dry and free of oil and soap
- Must be applied on a primed surface for maximum corrosion protection
- Permanently flexible
- Paintable
- Non-staining
- Non-sagging
- Water dispersing
- Unaffected by temperatures from -40 °C to +90 °C (-40 °F to +194 °F), and for a short time to 120 °C (248 °F)

Adheres To:

Masonry, glass, metal, paint, wood, fibreglass, porcelain, polycarbonate.

Bonds:

Metal, glass, most plastics, fabrics, gaskets.

Drying Time:

Skin Time: 60 seconds; Tack Free: 2 minutes; Paintable: 30 minutes
Full Cure: 24 hours.

| Colour | Contents | Art. No. |
|--------|----------|------------------|
| White | 300 mL | 890.50010 |
| Black | | 890.50011 |

EUROSEAL GEL



Art. No. 892.0104 226 g

Flexible and paintable seam and joint sealant compound

- For stopping water and rain leaks on firewalls & windshield areas
- Stays permanently flexible
- Withstands oxidation, saltwater and most solvents when cured
- Slight shrinkage when cured
- Adheres to wet surfaces
- Can be mixed with paint to make a coloured seam
- Fast curing allows painting within 30 minutes
- Colour: Clear

* Do not bake dry

ADHESION PROMOTER



Art. No. 893.91013 307 g

A truly unique product for plastic repair. Dramatically improves adhesion of fillers and paint products.

- A very unique blend of resins designed to seal in mould release agents and binders found in semi-rigid plastics, Thermopoly Olefenic Plastic (TPO) and Polypropylene (PP). Provides excellent epoxy and paint product adhesion to these type substrates
- Olefenic Plastic Adhesion Promoter is used after the cleaning step and prior to the filling and finishing steps on semi-rigid plastic repair
- Apply the Olefenic Adhesion Promoter prior to painting

Note: Not allowing the product to thoroughly dry will cause repair failure. Must be active for 20 minutes (minimum) prior to plastic repair.

EPOXY MIXING PACKETS



| Description | Content | Art. No. | P. Qty. |
|----------------------|---------|------------|---------|
| Epoxy Mixing Packets | 3.5 g | 893.480101 | 10 |

| Typical Uncured Properties | Part A | Part B | Mixed |
|----------------------------------|---------|-----------|------------|
| Colour | Black | Off-White | Grey |
| Viscosity at 25°C, cps | 445,000 | 336,000 | 390,500 |
| Weight per Gallon (lbs.) | 11.62 | 11.75 | 11.69 |
| Specific Gravity at 25°C | 1.39 | 1.41 | 1.40 |
| Gel Time (minutes) | | | |
| 10 g at 25 min. | | | 4 - 8 min. |
| Shelf Life (packet) | | | 24 months |
| Cured Physical Properties | | | |
| Hardness, Shore - D | | | 70 |

Fast-setting epoxy adhesive. This formula has a high thixotropic index to keep it sag-free during application, while the filler content allows sanding or shaping soon after curing.

Epoxy mixing packets contain both resin and hardener in one convenient package. The two components are color coded to assure complete mixing. Self-package mixing eliminates the need to squeeze tubes and weighing scales.

Applications:

- Fills gaps and bonds trim
- Casting cracks and holes
- Auto trim and ornaments

Advantages:

- Pre-measured resin and hardener for easy application
- Consistent strength and time savings
- Holds in 5 - 15 minutes
- Useable in 30 minutes
- Work time: 4-8 minutes at 77°F
- Good moisture resistance
- May be drilled, tapped, sanded or machined and painted after cure
- Quick and convenient

Directions:

1. Before starting, make sure your work area is protected from accidental spills. Surfaces must be clean, dry and free of grease and oil.
2. Roughen smooth surfaces to be repaired with sandpaper.
3. Scrape all of the epoxy hardener and resin, mix thoroughly until a uniform grey color is achieved (approximately one minute).
4. Use mixing stick to apply epoxy to bonding area.
5. Press surfaces together until set - product will set up in 5 to 15 minutes.
6. While epoxy is still tacky, the excess can be removed with paint remover or mineral spirits.
7. Parts will fixture in 5 to 15 minutes; full cure is achieved in 24 hours.

MIXING NOZZLES



Ensures a perfect mix of 2-part adhesives for epoxy and structural urethane products

* 17-element mixing tip for 2-part urethane adhesives

The shortest mixing tip currently available results in a more efficient mix and reduces wasted product

| Img. | Mixing Elements | Fits | Length | Art. No. | Qty. |
|------|-----------------|--|--------|-------------|---------|
| C | 24 | Würth Fix 250mL, Power Bond 220mL | 6.5" | 891.609 | 6/bag |
| C | 24 | Würth Fix 250mL, Power Bond 220mL | 6.5" | 891.609100 | 100/box |
| B | 18 | Replast Easy 220mL, Replast Easy 400mL | 5" | 891.604 | 6/bag |
| B | 18 | Replast Easy 220mL, Replast Easy 400mL | 5" | 891.604100 | 100/box |
| D | 17 | Replast Easy 220mL, Replast Easy 400mL | 4" | 891.603100* | 100/box |
| A | 16 | Würth Fix 50mL | 3.25" | 891.605 | 6/bag |

WATERPROOFING COMPOUND



| Contents | Colour | Art. No. |
|----------|--------|------------|
| 975 g | Grey | 893.350810 |

Note: This product is not paintable

An easy to apply one component water-based silicone coating

A part of our ecologically-sound chemical product range

Permanently elastic

- Pure silicone basis
- Remains permanently elastic and does not become brittle, even under extreme weather conditions
- UV and weather-resistant

Bridges cracks / Stops water infiltration

- A layer thickness of 6-3mm is achieved with just one application

Adheres on damp surfaces

- Sealing of damp surfaces possible
- Therefore acts like a true weather proofing and repair compound
- Adheres to all building materials (incl. wood, metal, plastic, concrete, stone, etc.)

Easy application

- Can be applied with paintbrush, brush, short pile roller or trowel

Easy cleaning

- Only clean water is required for cleaning edge areas, working equipment and hands

Compatible with bitumen

Application

- Protective, waterproofing and repair coating for various applications on buildings and vehicles, including repairs of roofs, installation of fences and retaining walls, waterproofing of basements and foundations, repairs of cracks in walls and floors, quick repairs on truck trailers, etc.
- Not suitable for area continually exposed to water (e.g. fountains, cisterns)

| Technical Data: | |
|-----------------------------|---|
| Basis | Silicone, rubber and water |
| Consistency | Thick, drip-proof |
| Reaction behaviour (curing) | 1 day approx. 2 mm (23 °C (73 °F)/50% humidity) |
| Specific weight | 1.3 g/ml |
| Thermally stable | -50 °C to +150 °C (-58 °F to +302 °F) |
| Application temperature | +5 °C to +40 °C (+41 °F to +104 °F) |
| Shelf life | 18 months (cool and frost-free) |
| Consumption | 1-3 l/m ² |



Can be applied with Putty Knives, **Art. No. 993.1100**

REPLAST EASY



- Urethane structural adhesives designed to bond and repair all plastics, fibreglass, SMC, metal and glass
- Dual-mix cartridge system
- OEM-approved
- To be used in most automotive and heavy truck applications
- Other applications include aerospace, personal watercraft, military equipment and recreational vehicles

| Art. No. | Open Time | Working Time | Clamp Time | Standing Time | Qty. |
|-----------|-----------|--------------|------------|---------------|--------|
| 893.50002 | 0.5 min. | 45 sec. | 2.5 min. | 5 min. | 220 ml |
| 893.50003 | 1.5 min. | 1.5 min. | 5 min. | 10 min. | |
| 893.50004 | 3.5 min. | 3 min. | 10 min. | 30 min. | |
| 893.50005 | 10 min. | 17 min. | 30 min. | 60 min. | |
| 893.50006 | 35 min. | 50 min. | 90 min. | 3h | |
| 893.50007 | 3.5 min. | 3 min. | 10 min. | 30 min. | 400 ml |
| 893.50008 | 10 min. | 17 min. | 30 min. | 60 min. | |

Note: Use 18 element square mixing nozzle Art No. 891.604
For 220 ml cartridges, use Art No's: 891.0091 & 891.0092 only!
For 400 ml cartridges, use Art. No. 891.0096 only!

WÜRTH FIX



Würth Fix Rigid

- Two-part epoxy adhesive fillers and surfacers designed to repair and bond rigid and semi-rigid materials in a few minutes
- It adheres to metal, aluminum, fibreglass, plastics, glass and wood
- Resists gasoline, acid and solvents
- Excellent as a skim coat/final coat over Replast Easy adhesives
- No shrinkage
- No isocyanate
- No VOC
- Dries fast
- Easy sanding

| Desc. | Open Time | Working Time | Standing Time | Art. No. | P. Qty |
|--------------|-----------|--------------|---------------|------------|--------|
| 250 ml rig. | 8 mins. | 8 mins. | 20 mins. | 890.480133 | 1 |
| 50 ml rig. | | | | 890.480132 | |
| 250 ml flex. | | | | 891.480103 | |
| 50 ml flex. | | | | 891.480104 | |



Würth Fix Flexible

- Two-part epoxy adhesive filler and surfacer designed to repair and bond flexible materials in a few minutes
- Adheres to TPO, RIM, PPO, PP, PC, etc.
- It resists gasoline, acid and solvents
- Excellent performance when used as a skim coat over Replast Easy structural adhesives
- No shrinkage
- No isocyanate
- No VOC
- Dries fast
- Easy sanding

Note: Use 24 Element square mixing nozzle, **Art. No. 891.609** for 250 ml cartridge and 18 Element square mixing nozzle, **Art. No. 891.605** for 50 ml cartridge. Leave nozzles on unfinished cartridges for future use as this product hardens in contact with air. Always use a new mixing nozzle when reusing the product.

POWER BOND



Art. No. 893.450200 220 mL

- Two component epoxy-based structural adhesive used for panel bonding when extended work time is required
- Dual-mix cartridge system
- Will bond bare metal, aluminum, SMC and fibreglass
- It will seal and bond in one step and contains corrosion resistant agents
- The glass beads mixed in the formulation will provide the adequate spacing required for optimal bond strength

| Open Time | Working Time | Clamp Time | Standing Time |
|-----------|--------------|------------|---------------|
| 60 min. | 90 min. | 4 h | 8 h |

Recommended: Multi-purpose dual cartridge caulking gun, Art. No. 891.0092

Note: Use 24 Element square mixing nozzle, Art. No. 891.609

FLEXIBLE FOAM



Art. No. 893.100080 220 mL

Two-part flexible anti-flutter urethane foam.

- Eliminates panel vibration and wind noise.
- Reinforces automotive body panels.
- Expands to 10 times its liquid state.
- Resilient - expands & contracts as needed to absorb sound & prevent flutter.
- Does not retain moisture.
- Duplicates OEM foam.
- Includes 2 mixing nozzles.
- Store in a cool, dry place.

- Rapid expansion time: 5-9 seconds.
- Work time: 15-20 seconds.
- Cure time: 5 minutes.
- Remaining material can be used multiple times if instructions are followed carefully, and the existing material is not contaminated.

Applications:

- Hood X frame anti-flutter
- Trunk lid frame anti-flutter
- Fill collapsed hollow weatherstrips.
- Stops water leaks in pillar posts.

ESK-50 FAST-ACTING EPOXY RESIN



Fast-acting two-part epoxy resin adhesive

Application:

- Suitable for bonding together various materials with high tensile and impact strength.
- Excellent resistance to flaking and shocks.
- An ideal composite for a wide range of applications such as sticking stainless steel sheets together, and repairing plastic and metal components that have broken off.

Surfaces:

Suitable surfaces include steel, stainless steel, galvanized steel, aluminum, copper, brass, coated metals, ABS plastic, PVC plastic, SMC, glass, ceramic, concrete, wood, polyurethane, polycarbonate, etc.

Benefits:

- **Fast curing**
The reaction of the two components results in a fast binding speed, ensuring fast application.
- **Broad range of applications**
For adhering metals, a range of plastics, glass, ceramic, etc. to and with each other.
- **High tensile strength values**
Tensile shear strengths are maintained even under the influence of heat.
- **Outstanding resistance to chemicals**
Resistant against many liquids such as water, gasoline and oil
- **Can be sanded when fully hardened**
- **High level of transparency**
- **Silicone and solvent-free**

Note: To be used with applicator gun 891.0093

| Description | Content | Art. No. | P. Qty. |
|--|---------|-----------------|---------|
| ESK-50 Fast Acting Epoxy Resin (includes 2 mixing tubes) | 50 mL | 893.4801 | 1 |
| Additional Mixing Tubes | 50 mL | 891.481 | 3 |

| Technical Data | |
|--|------------------------|
| Basis | Epoxy |
| Colour | Clear, slightly-yellow |
| Density | 1.1 g/cm ³ |
| Viscosity | 8000 - 11000 mPas |
| Thermal Range | -60°C to 100°C |
| Open Time | 3.5 minutes |
| Fixture Time | 5 minutes |
| Tensile sheer strength (N/mm²) - after 16h at 40°C | |
| Steel | > 21 |
| Stainless steel | > 17 |
| Aluminum | > 13 |
| Copper | > 15 |
| Brass | > 15 |
| ABS plastic | 4 |
| PVC plastic | 4 |
| Acrylic | 3 |
| Polycarbonate | 4 |

PIN PULLER SET

Art. No. 691.500168

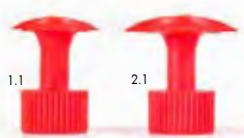
Universal dent removal set with adhesion technology for the removal of dents without damaging the paint finish.



Contents:

| # | Description | Contents of Set | Art. No. |
|---|--|-----------------|-------------|
| 1 | Pin Puller with support base | 1 | 691.500170* |
| 2 | Pulling Tabs, spherical (red) 5 x Ø 16 and 5 x Ø 27 mm | 4 | 691.500154 |
| 3 | Pulling Tabs, spherical (red) 5 x Ø 21 and 5 x Ø 32 mm | 4 | 691.500155 |
| 4 | Glue stick, brown, high-strength, Ø 12 mm | 10 | 890.100050 |
| 5 | Plastic wedge | 1 | 714.5832* |
| 6 | Plastic taper bar | 1 | 691.500150* |
| 7 | Acetone cleaner, 250 ml | 1 | 893.460005 |
| 8 | Adhesive remover, 150 ml | 1 | 893.141 |
| 9 | Gloves, size 9 | 1 | 899.41009* |

* Only available through Special Orders.



Additional Pulling Tabs:

| # | Description | Contents of Pack | Art. No. |
|-----|---|------------------|------------|
| 1.1 | Pulling Tab: round, convex (red), dia. of 16 mm, for very small dents, e. g. dent remnants | 10 | 691.500160 |
| 2.1 | Pulling Tab: round, convex (red), dia. of 21 mm, small dents, e. g. typical hail-impact dents | 10 | 691.500161 |

Compact

- Contains all necessary tools for the removal of soft dents on painted surfaces.
- Optimum composition and readiness for use.

Universal

- Small to medium deformations.
- Both round and oblong dents.
- Both adhesion and welding technology (welding technology not included in delivery scope).
- High economy.

Exact

- Independently adjustable device and support bases adapt precisely to the deformation
- Through the precise support on the edge of the dent, it is not pulled up.

Expandable

- If required, it can be retrofitted with the PinPuller welding articles (openings already provided).
- Adapted to individual requirements.



PIN PULLER SET APPLICATION

Directions:



1. Clean dent with a acetone cleaner and, if required, affix a cross mark.



2. Apply melted adhesive to the suitable adapter.



3. Glue the adapter into the dent and align with the cross mark.



4. Cool the adapter off with compressed air or freezing spray.



5. Attach the Mini Lifter to the adapter and carefully pull out the dent.



6. Afterwards, spray Adhesive Remover onto the edge of the adhesive.



7. Using the plastic wedge, carefully lift off the edge of the adhesive and remove the adhesive from the paint work.



8. Carefully remove any adhesive residue with Acetone cleaner.



9. An overextended dent can be reversed with straightening cone.

MAXILIFT LEVER



Helpful hints:

- If possible, place the support foot onto an edge or near an edge in a level and stable location.
- The further the working point is away from the support point, the smaller the force acting on the support point.

Note: Requires **Art. No. 691.500141** to use **691.500...** lifter adapters.

Art. No. 691.500140

This accessory allows for the careful repair of deformations. The optimal supplement for dent lifter.

Benefits:

- Many different possibilities of use because of exclusive and patented additional products.
- The leverage of the Maxilift acts like a 'third hand', so the free hand is able to actively support the setting procedure.
- While the dent is lifted slightly with one hand, the free hand is able to support the setting procedure with gentle hammer taps to the boundary zone of the dent.
- Deformations fixed in this way achieve better results and have better stability compared to repairs carried out with a slide hammer alone.
- The large size permits a large variety of applications (overall length: 700 mm).
- The height (115 mm) allows for better accessibility under the lever as well.
- Gentle support due to the rubber padding, inadvertent damage to paintwork is avoided.

DENT LIFTING ACCESSORIES

By attaching the tension adapters, dents can be pulled out and straightened. Subsequent painting of many dents is not needed.

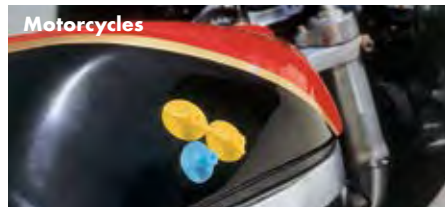
Advantages:

- No removal of paint finish. The success of the repair without repainting does depend on the quality of the paint and how the product is used.
- No disassembly of the interior trim and no disconnection of the battery is necessary.
- No welding burns on the inner side of the body.
- The low generation of heat allows work even on critical components such as motorcycle fuel tanks, stainless steel containers, etc.

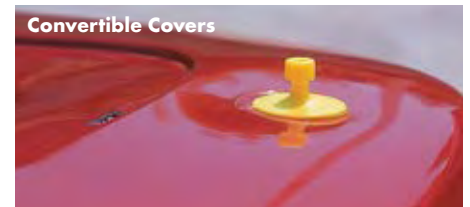
Applications: There are several applications for the dent lifter system. They can be used on all types of vehicles, automobiles, light trucks, SUVs, marine applications, motorcycles, vans, galvanized and non-galvanized sheet metal, sheet gauges form 0.5 to 2 mm, stainless steel, aluminum, all painted surfaces, as well as numerous other applications.



Vans



Motorcycles



Convertible Covers



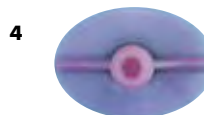
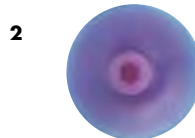
Trunk Lids

Characteristics of the Adapters' Shapes

- Round adapters are for round and large dents. The pulling focuses on the center.
- Oval adapters are for oval and long, narrow dents. The middle bridge of the adapter applies the pulling force.
- Barrel shaped adapters are for long and narrow dents. The middle bridge of the adapter applies the pulling force. Several adapters can be placed next to each other in the dent. The adapters are pulled alternately.

Characteristics of the Adapters' Colors

- Yellow adapters are made of hard rigid material, which allows higher levels of force.
- Violet adapters are made of flexible, moldable material. The adapter can be molded to the form of the dent by heating.
- Blue adapters are made of flexible, moldable material for small dents.



Adapters:

1) 691.500115

Round Hard Adapter (Yellow) Ø 40 mm, Qty. 10. Suitable for round and large dents, the adapter material enables high tensile forces and stress.

2) 691.500116

Round Flexible Adapter (Purple) Ø 40 mm, Qty. 10. Suitable for round and sharp-edged dents, the adapter material can be adjusted to the shape of the dent by heating.

3) 691.500117

Oval Hard Adapter (Yellow) 47 mm x 33 mm, Qty. 10. Suitable for oval and long narrow dents, the adapter material enables high tensile forces and stress.

4) 691.500118

Oval Flexible Adapter (Purple) 47 mm x 33 mm, Qty. 10. Suitable for oval and long narrow dents, the adapter material can be adjusted to the shape of the dent by heating.

5) 691.500121

Small Round Hard Adapter (Blue) Ø 35 mm, Qty. 10. Suitable for small dents, the adapter material can be adjusted to the shape of the dent by heating.

6) 691.500122

Barrel Shaped Adapter (Purple) 37 mm x 33 mm, Qty. 10. Ideal for long thin stretched dents. Adapters are placed side by side and pulled alternately.

APPLICATION



1. Clean the dent with W-Sol Cleaner with **Art. No. 890.113/890.1130**



2. Fit the suitable adapter onto the extension lifter and apply glue to the middle of the adapter. New adapters need to be scuffed for better adhesion.



3. Glue adapter to the deepest point of the dent, if possible, cool with pressurized air. This way you should be able to pull the dent after approximately 30 - 40 seconds.



4. Attach sliding hammer to the adapter and pull the dent.



5. Heat the adapter with a hot air fan to a temperature of 150 °C (302 °F) and with the help of the extension lifter remove the adapter in a sideways motion.



6. Remove glue remnants with W-Sol Cleaner, (**Art. No. 890.113/890.1130**). If needed, heat the remaining glue and scrape off with a spreader.



7. Finished product.

Note: If the adapter pops off prematurely...

- and the glue sticks to the dent; you need to scuff the adapter for better adhesion.
- and the glue sticks to the adapter; you need to clean the surface of the dent again with W-Sol Cleaner, Art. No. 890.113/890.1130 for better adhesion.

If there is a soft filler putty or filler under the paint, the adapter will pull off the paint, as the adhesion of the filler is not strong enough to pull the dent.

MINILIFTER ADAPTOR



The clamping spring secures the traction piece at any point on the lever.

Art. No. 691.500141

For attaching dent lifter adapters, Art. No. 691.500... in connection with the Maxilift lever, Art. No. 691.500140.

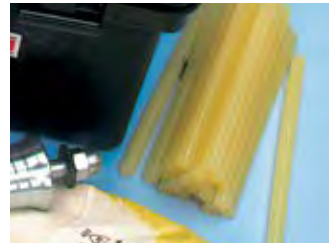
DENT LIFTING ACCESSORIES



Slide Hammer
Art. No. 691.500112 - Qty. 1



Adapter Installation Tool
Art. No. 691.500114 - Qty. 1
For safe installation and removal of the adapters



Glue Sticks, 10 pieces
Art. No. 890.100050 - Qty. 1
0.5 kg special glue, Ø 12 mm.



Electric Glue Gun
Art. No. 702.100057 - Qty. 1



Flexible Spatula
Art. No. 695.940921 - Qty. 2
For removal of glue residue from surfaces.



W-Sol Residue Remover, 454 G
Art. No. 890.1130 - Qty. 2
For removing glue residue and cleaning adapters after use.

Note: If the adapter pops off prematurely...

- and the glue sticks to the dent, you need to scuff the adapter for better adhesion.
- and the glue adheres to the adapter, you need to clean the surface of the dent again with W-Sol Cleaner, Art. No. 890.113/890.1130 for better adhesion.

If there is a soft filler putty or filler under the paint, the adapter will pull off the paint, as the adhesion of the filler is not strong enough to pull the dent.

ADHESIVE REMOVER SPRAY



Art. No. 893.141 103 g

Easily removes cured melted adhesive from enamelled surfaces.

The adhesive residue is removed from the surface in one piece in seconds thus avoiding the need for time-consuming removal with hot air blower, spatula and cleaner.

Areas of application:

- Removal of adhesive from the inside and outside of automobiles, recreational vehicles, camping vehicles as well as in the workshop and around the house.



1. Lift up the edge of the melted adhesive with a plastic wedge.

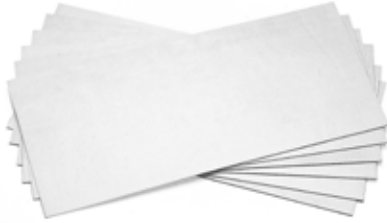


2. Spray the Adhesive Remover directly into the gap between the cured adhesive and the surface and allow to take effect briefly.



3. The Adhesive Remover penetrates into the gap and separates the adhesive residue from the surface.

SOUND DEADENING PADS



Suppresses internal vibration noise caused by vibrating body parts

- Heavy bitumen pads, aluminum coated, self-adhesive
- Reinforced against breaking
- Can be painted over
- Resistant to water, light acid and alkaline solutions
- High temperature resistance -30 °C to +80 °C (-22 °F to +176 °F), (1 hour +180 °C/ 356 °F)

| Size | P. Qty. | Art. No. | Colour |
|---------------|---------|-------------------|--|
| 200 x 500 x 2 | 10 Pads | 890.100601 | Black bitumen coated (recommended by GM) |

AMO BAG AIR WEDGE



Art. No. 715.6780

Fibre reinforced plastic bag with high load-bearing capacity (100 kg)

- Easy to inflate/release system by small pump and release valve
- Prevents costly locksmith charges
- Use for prying objects apart (windshields, headlights, etc.)
- Allows one person to complete a job that normally requires two persons
- Avoid scratches on the surfaces
- Handy, strong and durable
- Reusable

Automotive applications:

- Opening of car or truck doors (i.e. if you accidentally forget the keys inside)
- Removing of windshield or sealed windows on cars, trucks, caravans, boats, etc.
- Substitution of headlights, bumpers, etc.

Note: The air wedge is not puncture resistant!

General applications:



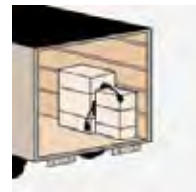
Installation of windows and doors



Positioning cabinets



Lifting doors



Protection of shipments

SPOTGUN INJECTION KIT



Art. No. 964.764016

This patented Spotgun™ dye injection system is a giant leap forward in A/C injection. Simply connect it to the low or high side (even with the engine running) and squeeze the trigger.

Includes:

- R-134a adapter with a new longer hose
- R-12 quick-connect coupler
- Applicator gun
- Economical jumbo dye cartridge 8 oz. (will service 32 vehicles)
- Service stickers

QUICK SHOT INJECTION SYSTEM



Art. No. 964.764035

Includes:

- Injection gun with R-134a adapter
- Quick-connect R-12 coupler
- Applicator gun
- 6 Disposable 1/4 oz. (7.5 mL) cartridges of universal A/C dye (good for 6 vehicle applications)
- Service stickers

REPLACEMENT SPOTGUN



Art. No. 891.764100

Replacement Gun for A/C Leak Detection Kit **Art. No. 964.764017** and Spotgun injection kit **Art. No. 964.764016**

A/C LEAK DETECTOR



Art. No. 892.764131 6 x 7.5 mL

- Easy-to-load (1/4 oz./ 7.5 mL) dye cartridges made to service 1 vehicle. The design of a single cartridge is the most efficient way for shops wanting to control dye inventory. Include (6) disposable 1/4 oz. (7.5 mL) A/C dye cartridges, good for 6 applications & 6 dye-installed stickers.

A/C UV LEAK DYE



Art. No. 892.764134 240 mL

- Compatible with R-134a, R-12, and the new HF01234YF refrigeration systems
- Detectable when exposed to UV light
- Compatible with PAG, ester, and mineral oils
- Compatible with hybrid A/C systems
- Does not contain solvents!
- Will not harm A/C systems or recovery equipment

UV DYE CONCENTRATE IN SINGLE APPLICATION SYRINGE



Single Application Syringe

- Single application 0.25 oz./7.5 mL
- Convenient to use
- Allows for easier, quicker and cleaner filling of any type injector
- Product does not come in contact with moisture in air
- Allow precision measurement of product
- No waste

Quick Connect Application Hose

- Luer Lock style adapter allows adding products directly to charged automotive A/C systems
- Backflow valve prevents refrigerant escape

| Description | Art. No. | P. Qty. |
|--|-------------------|---------|
| UV Dye Concentrate Single Application Syringe .25 oz | 892.764135 | 12 |
| Quick Connect Syringe Application Hose (re-usable) | 764.26203 | 1 |

UV DYE CLEANER



Art. No. 892.764401 500 mL

- Safely removes fluorescent and non-fluorescent leak detection dyes
- Removing dye stains helps to prevent mis-diagnosis of possible future A/C system leaks
- Non-flammable / non-toxic

MULTIPLE PURPOSE UV DYE (OIL BASED)



Art. No. 892.764040 6 x 30 mL

- Used for engine oil, transmissions, hydraulics, power steering, gasoline and diesel fuel

Includes:

- 6 dye bottles of 1 oz. (30 mL) and 6 dye-installed stickers

Note: Not D.O.T. approved for brakes.

RADIATOR LEAK DETECTOR (WATER BASED)



Art. No. 892.764033 6 x 30 mL

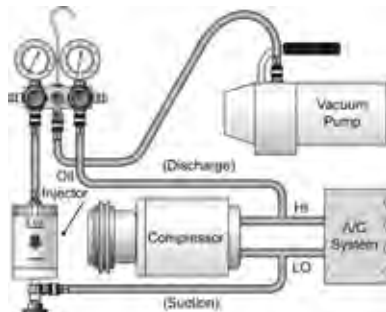
Makes leaks easy to find in Radiator Tubes/Headers and Connections. Also pinpoints leaks in Hoses/Fittings, Water Pumps and Head Gaskets.

Includes:

- 6 dye bottles of 1 oz. (30 mL) and 6 dye-installed stickers

Note: Will not work with GM Long Life Coolant.

SUPER LEAK STOP INJECTION TOOL



Art. No. 892.764321

2 ounce dye/oil injector for R-134a

- For use with manifolds gauge sets
- Made of heavy duty aluminum
- Use in-line on pressurized systems
- Quick connect style

LEAK STOP IDENTIFICATION LABEL



Art. No. 469.687.11

- Multi-use label advises of leak stop in A/C or other engine systems

TOTAL A/C LEAK STOP + UV DYE



Art. No. 892.764775 59 mL

Features:

- Stops small refrigerant leaks in metal and rubber A/C system components
- Lubricates A/C system and helps prevent leaks
- Contains a UV dye to help pinpoint mechanical leaks in A/C systems
- Does not contain polymers; will not harm or clog A/C system components, reclamation or recovery machines
- Compatible with PAG, Ester and Mineral oils
- 1 bottle treats 1 vehicle

Applications:

- Stops leaks in evaporator, condenser, rubber hoses, gaskets, seals and all types of O-rings including HBR, Nitrile and Neoprene.

Note: For use in R-134a & R-12 A/C systems

Requires Total A/C Leak Stop Injection Tool (Art. No. 892.764321).

Note: To use with R123YF use 764.000123

TOTAL A/C LEAK STOP WITH UV DYE



Art. No. 892.764777 116 g

Features:

- Stops small refrigerant leaks in metal and rubber A/C system components
- Lubricates A/C system and helps prevent leaks
- Contains a UV dye to help pinpoint mechanical leaks in A/C systems
- Does not contain polymers; will not harm or clog A/C system components, reclamation or recovery machines
- Compatible with PAG, Ester and Mineral oils
- 1 can treats 1 vehicle

Applications:

- Stops leaks in evaporator, condenser, rubber hoses, gaskets, seals and all types of O-rings including HBR, Nitrile and Neoprene.

Note: For use in R-134a A/C systems only.

* Uses the patented bag-on-valve (BOV) delivery system, which consists of a flexible pouch attached directly to the valve within the aerosol can. The BOV system isolates the product from the propellant, ensuring only the product gets released into the A/C system. The propellant remains inside the aerosol can.



*** Art. No. 892.764776** 66g
(Includes flexible charging hose)

POE OIL ISO 100 + UV LEAK DYE



Premium synthetic refrigerant lubricant for R12 to R134A systems approved O.E.M. technology

- Excellent anti-wear formulation, helps to extend compressor life
- Designed exclusively for retrofit applications
- Retro grade 100 equivalent to 500 viscosity
- For Jaguar, SAAB, Volvo
- Contains UV Dye for Leak Detector

| Content | Art. No. |
|---------|------------------|
| 236 mL | 890.82908 |
| 946 mL | 890.82932 |

A/C LEAK STOP + UV DYE



Art. No. 892.764302 119 g

Features:

- Stops small refrigerant leaks in rubber A/C system components
- Lubricates A/C system and helps prevent leaks
- Contains a UV dye to help pinpoint mechanical leaks in A/C systems
- Does not contain polymers; will not harm or clog A/C system components, reclamation or recovery machines
- Compatible with PAG, Ester and Mineral oils
- 1 can treats 1 vehicle
- Easy and fast installation with the Würth Charging Hose (**Art. No. 764.305000**)

Applications:

- Stops leaks in rubber hoses, gaskets, seals and all of O-rings including HBR, Nitrile and Neoprene.



*** Art. No. 892.764303** 63g
(Includes flexible charging hose)

Note: For use in R-134a A/C systems only.

* Uses the patented bag-on-valve (BOV) delivery system, which consists of a flexible pouch attached directly to the valve within the aerosol can. The BOV system isolates the product from the propellant, ensuring only the product gets released into the A/C system. The propellant remains inside the aerosol can.

A/C PERFORMANCE ENHANCER



Art. No. 892.76462 114 g

- Faster cool-down rates in A/C Systems
- Lower vent temperature 3° to 9° F (typical vent temperature reduction range)
- Cleans and revitalizes A/C Systems
- Reduces compressor wear and extends compressor life by solubilizing build-ups including sludge and varnish which impede heat transfer
- Compatible with PAG, Ester, and Mineral Oils
- Will not harm A/C System components or equipment
- Proprietary additives allow compressors to run more efficiently
- Easy to use aerosol treats one vehicle
- Easy and fast installation with the Würth Charging Hose (**Art. No. 764.305000**)

Note: Does not contain U/V dye

JUMBO – 8 OZ. A/C OIL



The fast and only way to top-up or retro-fit A/C systems

- Viscosities of PAG oils (8 oz./240 mL) and 1 Ester oil (8 oz./240 mL). Eliminates time and mess when used with Spotgun™. Safely adds oil without refrigerant recovery.

* According to GM spec #9985752

Note: Oil must be applied according to O.E.M compressor specifications.

| Name | Contents | Viscosity | Art. No. |
|---------------|----------|-----------|---------------------|
| Universal dye | | - | 892.764106 |
| PAG Oil | 240 mL | 46 | 892.764146 |
| | | 100 | 892.764147 |
| | | 125 | 892.764145 * |
| ESTER Oil | | 100 | 892.764200 |

PREMIUM SYNTHETIC PAG LUBRICANT



- Premium synthetic refrigerant lubricant for R12 to R134A systems approved O.E.M. technology
- (Polyalkylene Glycol)

Contains:

- Conditioners, inhibitors and anti-wear agents for superior lubricity and compressor protection
- UV Dye for leak detector
- Specially formulated for O.E. and after-market air conditioning systems using R-134a refrigerant

| Viscosity | Applications | 8 oz. (236 mL) Art. No. | 32 oz. (946 mL) Art. No. |
|-----------|---|----------------------------|-----------------------------|
| 46 | GM, Ford, Chrysler, Jeep, Acura, Mitsubishi, Nissan, Porsche, Suzuki, BMW, Honda, Hyundai, Mazda, Mercedes, Audi & Toyota | 892.764315 | 892.764325 |
| 100 | GM, Ford, Chrysler, Jeep, Hyundai, Saturn, Subaru, Volkswagen | 892.764316 | 892.764326 |
| 150 | GM, Isuzu, Mercedes, Subaru | 892.764319 | 892.764329 |

PAG 46-H, HFO-1234YF LUBRICANT



For vehicle air-conditioning systems with R1234YF coolant

Features:

- High-performance synthetic PAG lubricant. Contains conditioners, inhibitors and anti-wear agents for excellent lubricity and compressor protection. ISO viscosity 46.

Applications:

- Specially formulated for A/C systems using HFO-1234YF refrigerant.

Directions:

- Always check with the system and compressor OEM for recommendations of specific types of lubricant and refrigerant requirements. Do not mix with other oils. Not for use in R-134A or R12 systems.

Note: Do not mix with other air-conditioning compressor oils. Reseal container immediately after use to prevent contamination from dust and moisture

| Designation | Viscosity | Contents | Art. No. |
|-------------|-----------|----------|-------------------|
| PAG Oil | Low | 236 mL | 892.123470 |

DYE / OIL INJECTOR FOR 1234YF SYSTEMS



Art. No. 764.000123

For vehicle air-conditioning systems with R1234YF coolant

Features:

- Does not require a manifold gauge to use on the low side of pressurized systems
- Great for introducing from 1/4 oz. up to 2 oz. of U/V Dye, Lubricants and Leak Stop to a closed A/C system without adding refrigerant
- Quick connect style for HFO-1234YF systems

A/C ASSORTMENTS



Art. No. 469.7772

R-12 to R-134a Retrofit Assortment – (10 Vehicles)

Contents (56 Pieces):

10) Low Side R134a Aluminum Adapters with caps; 1) GM 2 Piece R134a Service Port Adapter with cap; 8) 3/16" Flare (3/8 S.A.E.) Aluminum Service Port Adapter with cap; 1) 1/4" Flare (7/16 S.A.E.) Aluminum Service Port Adapter with cap 3) 3/16" Flare (3/8 S.A.E.) Block Off Caps; 3) 1/4" Flare (7/16 S.A.E.) Block Off Caps; 10) R 12 to R 134a Labels; 20) A/C Valve Cores

AUTOMOTIVE HVAC SYSTEM TREATMENT



Art. No. 893.764170 170 g

- Specially formulated to handle the problems associated with moisture and deposit accumulation in heater and air conditioning systems.
- Powerful fragrance and chemical odour counteractant system eliminates the malodours right at the source.
- Helps refreshen an undesirable smells such as cigarette smoke, food odours and pets.

Use the entire contents of this can for maximum results.

Note: Do not spray on electrical components, polished wood or rayon fabric

TREATMENT FOR R134A A/C SYSTEMS



Art. No. 892.764003 539 g

Quick and easy all-in-one refrigerant refill & A/C treatment.

- 16 oz. of R-134a refrigerant charge.
- 3 oz. synthetic lubricant charge replaces lost oil caused by system leaks.
- Performance enhancer provides colder air faster.
- System safe leak sealer stops small leaks in rubber hoses, gaskets & O-rings.
- Ultraviolet leak detection dye to quickly identify system leaks.
- Anti-wear additives reduce wear and extend compressor life.

Note: Not for use in R-12 A/C systems!
Do not connect to high pressure side. This may cause can to burst and can cause bodily injury. Always wear safety goggles.

HYBRID A/C COMPRESSOR OIL



Art. No. 892.764038 236 mL

- Specially formulated synthetic lubricant for electric hybrid air conditioning compressors.
- High dielectric protection formula has excellent "resistivity" to potential electrical current leakage in high voltage hybrid A/C systems.
- Contains conditioners, inhibitors & anti-wear agents.
- Provides excellent lubricity and compressor protection.

Many hybrid vehicles come with hybrid air conditionings compressors which are belt driven by the vehicle's engine when it is running, or turned by a small electric motor when the vehicle is in idle-stop (the gasoline powered engine shuts off at a stoplight or in stop-and-go traffic). Other hybrid vehicles have entirely electric-driven A/C compressors which do not rely on being belt-driven by the gasoline engine.

Whether "electric-only" or "belt and electric" these compressors have a bright orange 3-phase high-voltage cable connected to them & must use an oil with high dielectric properties or high "resistivity" to current leakage to help prevent shock hazards.

When working with hybrid A/C systems, it is extremely important that the system not be contaminated with any PAG oil, even residual oil in service equipment hoses. Flush and clean hoses and other tools and equipment before working with this product to prevent contamination!

FACTORY R-134A A/C PRIMARY SEAL AND CAP ASSORTMENT



Art. No. 469.779

Contents (20 pieces): 5 Low Side R-134a Primary Seal, 5 Blue Low Side Caps, 5 High Side R-134a Primary Seal, 5 Red High Side Caps

- R-134a Primary Seal Low Side Fitting is used to replace factory installed R-134a low side fittings when leaking. M10 x M1.25 thread
- R-134a Primary Seal High Side Fitting is used to replace factory installed R-134a high side fittings when leaking. M12 x M1.5 thread
- These ports do not contain a Schraeder valve, instead they are equipped with a rubber-ball valve, which prevents the escape of refrigerant

Application:

Late model Chrysler, Ford, GM and VW

AUTO A/C MAINTENANCE ASSORTMENT

| Tray 1 - 18 Pieces | Qty. | Art. No. |
|--|------|-------------|
| Foamet® Style Manifold to Expansion Valve Gasket | 2 | 469.09420F* |
| Manifold to Expansion Valve Gasket | 2 | 469.9640 |
| Condenser Manifold Gasket | 2 | 469.9641 |
| Expansion Valve to Evaporator Gasket | 2 | 469.9642 |
| Foamet® Style Expansion Valve to Evaporator Gasket | 2 | 469.09426F* |
| JRA Low Side cap | 4 | 469.09621* |
| JRA High Side cap | 4 | 469.09622* |

| Tray 2 - 32 Pieces | Qty. | Art. No. |
|---|------|---------------|
| #6 Garter Spring | 4 | 469.09OR606* |
| #8 Garter Spring | 4 | 469.09OR608* |
| Chrysler/Nippondenso 10S Discharge Port | 4 | 469.0915153* |
| Chrysler/Nippondenso 10S Suction Port | 4 | 469.0915160* |
| Chrysler 5/8" KJ Hose Fitting | 4 | 469.0915177* |
| Chrysler 3/8" LX Dryer/Liquid Line | 4 | 469.0915184* |
| #10 Garter Spring | 4 | 469.09OR6010* |
| #12 Garter Spring | 4 | 469.09OR6012* |

Art. No. 965.4692005

Contents: 653 Pieces

- Contains o-rings, slim line and sealing washers, gaskets, valves, primary seals and more
- Over 80 different Art. Nos.
- Contains all the small service parts you need!
- O-rings are shown as actual size on lid

* Must be ordered through Special Orders



Tray 1



Tray 2



Tray 3



Tray 4



Tray 5



AUTO A/C MAINTENANCE ASSORTMENT

| Tray 3 - 220 Pieces | Qty. | Art. No. |
|---|------|----------------------|
| Nissan 92472 N8200, Calsonic A9510 69200, Rover JUU100200, JUU100430, 6mm hose fitting, EXP valve equalizer line fitting | 5 | 469.09901 |
| Alfa Romeo 60811547, Audi/VW 803-260-749, Opel/Vauxhall 3094213, Volvo/Saab 3522587 | 5 | 469.09008 |
| BMW 64-50-8390-605, Oil drain bolt O-ring, 16mm metric filter/drier fitting O-ring, EXP Valve O-ring | 5 | 469.09568902* |
| Volvo 3522587, EXP valve equalizer line, orifice tube | 5 | 469.0913296* |
| Rover CDU1513, Ford 1-958-277, Porsche 999-707-284-40, Nissan 92470-N8200, Calsonic A9520 69200 | 5 | 469.09010 |
| Volvo metric orifice tube, 7mm hose fitting 1323387-9, 3545086-5, 3537797 | 10 | 469.09M2104* |
| Honda 80873-SLO-900, Mazda LB-52-61-JIX, Mitsubishi MB946604, Toyota 90099-14044, Volvo 1323387-9, #5 (7mm) hose fitting, TXV/EXP Valve fitting | 5 | 469.09022 |
| Nissan 92470 N8210, Calsonic 88000 69200, Nissan/Calsonic Captive | 5 | 469.09M2105* |
| 6MM Hose fitting, Alfa Romeo 60813186, Ford E853169S, Jaguar KRS604001, Rover JUU10001, JUU100090, JYX100100, Nissan 92471 N8210, Calsonic A9520 69220 | 5 | 469.09M2106* |
| 6mm hose fitting, switch/orifice tube fitting, Opel/Vauxhall 1850702, Rover JYX100180, Acura/Honda 80873-ST7-000, Toyota 90099-14119, Mazda LB51-61-JIX | 5 | 469.92103 |
| #6 GM captive, Ford combi valve evap. manifold oil bleed line, Ford block exp. valve | 5 | 469.09108 |
| Metric #6 Fitting Seal, Rover JUU100040, JUU100050, JUU100110, Citroen/Peugeot 6457R5, Opel/Vauxhall 9288674, 1845683, 6845671, 1850703, 1843750, Ford W701420, 3913196-S100, 389157, 6-753-633 | 20 | 469.091155 |
| Ford orifice tube, GM HR6/HR6HE discharge crossover, Mazda LB-53-61-JIX, Jaguar CAC89682 | 5 | 469.09903 |
| Audi/VW 803-260-749, 803-260-749A, 8A0-260-749AK Ford 95VW-19E715-EA, 391302-S100 | 5 | 469.0913302* |
| No. 6 Hose fitting Volvo 3522588-7, 3537499-0, 3557499-0, 3522598-6 | 10 | 469.09M2118* |
| Hose fitting - Mercedes 140-997-06-45, Porsche 999-707-247-40 | 5 | 469.09M2107* |
| 8mm hose fitting, Ford N807083-S, W701422, 6-753-634, Audi/VW 7M0-820-749B | 5 | 469.09M2122* |
| Ford 95VW-19E715-AA, Audi/VW 7M0-820-749B | 5 | 469.0913432* |
| Alfa Romeo 60811547, BMW 64-50-1-468-464, Ford W701424, 379737-S, 6-753-635, Opel/Vauxhall 90381762, 1854813/52458183, Rover JYX100110 | 5 | 469.09012 |
| Volvo 3522598-6, 3737501-3 | 10 | 469.09M2120* |
| GM Cycling Switches, block fitting | 5 | 469.09568904* |
| Porsche 999-707-261-40, 9MM hose fitting | 5 | 469.09M2112* |
| Opel/Vauxhall 90459254, 52466778/1850714, BMW 64-50-8374-959 6C17 | 5 | 469.09568110* |
| GM 1/2" Dual metric fitting Nippondenso 7SB 16C discharge fitting | 5 | 469.09568905* |
| Ford W702645 | 5 | 469.0913364* |
| Volvo 3545628, 6C17 Large Control Valve Outer O-ring | 5 | 469.0913357* |
| Audi/VW 8A0-260-749AJ, 7M0-820-749C, Ford 19E715-BA | 5 | 469.0913319* |
| Volvo #8 Hose fitting 3522591-0, 3537503-9 | 10 | 469.09M2127* |
| Ford #8 Metric Springlock (391397-S100, YF-1788), Chrysler Metric Fitting 04741705 | 20 | 469.0901355 |
| GM #8 - 1/2" metric captured | 5 | 469.09568009* |
| Diesel Kiki DKS-16H large plug bolt, Hitachi MJS170 service valve, Mazda hose fitting, Nissan 92470-N8200 | 5 | 469.92121 |
| Nissan 92475-W1000, Acura 80872-ST7-000, Opel/Vauxhall 90508320, 1850726/52451134, BMW 64-50-8375-714 | 5 | 469.09111 |
| GM 52456068, 5/8" Dual metric Connection O-ring | 5 | 469.09568906* |
| Rover JUU100120, JUU100240, BMW 64-53-8-375-742, #8 Compression fitting | 5 | 469.09014 |

| Tray 4 - 220 Pieces | P. Qty. | Art. No. |
|--|---------|----------------------|
| GM 52450548 (3093499), Citroen/Peugeot 6457R4, Mercedes 140-997-11-45 | 5 | 469.09M2109* |
| Audi/VW 8A0-260-749AF, 8A0-260-749AJ | 5 | 469.0913401* |
| Volvo/Saab 3537501, 9mm hose fitting | 5 | 469.0913418* |
| Metric captive, GM (3093112) 52454645, 15-3984, Opel/Vauxhall 90381758, 1850713, 6845673, 1850712, 52454645, Rover JUU100150, JUU100230 | 5 | 469.09M2111* |
| Audi/VW 1J0-820-749, Nissan 92475 72L00, Calsonic A9550 69215 | 5 | 469.09M2110* |
| Volvo/Saab 3545416 hose fitting | 5 | 469.0913326* |
| #10 Metric fitting, Chrysler 4740401, 4741701, Ford YF-1755, 391304-S100, 701426-S300, 6-753-636, 391304-S100 | 20 | 469.0901555 |
| Audi/VW #10-5/8 Standard Hose fitting 8A0-260-749AH, Ford 19E715 | 5 | 469.0913333* |
| Volvo 3522590-3, 3537507-0 #10-5/8 Standard hose fitting | 20 | 469.09M2134* |
| Mercedes 140-997-09-45, Porsche 999-707-251-40 | 5 | 469.09M2128* |
| Nissan 92473 N8210, Calsonic A9550 69220, Chrysler 4796564, Jaguar KSG113624, Rover JYX100080, JYX100190 | 5 | 469.09M2124 |
| Alfa Romeo 14457180, Opel/Vauxhall 1850710, 90462478, 90487638, 1845690, 52454646, #12 GM Captive | 5 | 469.09568113* |
| Hose fitting, Nissan 27739-B8065, Jaguar CBC4967, Opel/Vauxhall 1845686, 6845674 | 5 | 469.09016 |
| 16mm hose fitting, Audi/VW 1H0-820-749H | 5 | 469.0913456* |
| Alfa Romeo 60811547, BMW 64-50-8-369-241, Jaguar KSR610001, KSR115001, 15mm Comp. Manifold | 5 | 469.09568114* |
| #12 Metric Hose Springlock, Ford YF-1752, 391305-S100, 390209, W702560, 6-918-663, 6-339-124 | 20 | 469.0901755 |
| Audi/VW 1J0-820-749A, 8A0-260-749AG, Chrysler 04746781, Nissan 92474 N8210, Calsonic A9560 69220 | 5 | 469.0913449* |
| Audi/VW 1J0-820-749B, Mercedes 140-997-09-45, Porsche 999-707-252-40 | 5 | 469.09175 |
| Volvo 3522591-1, 3337521-1, 3522591-0, 3537521-1, #12 Standard hose fitting, Accumulator o-ring | 10 | 469.09M2139* |
| Audi/VW 803-260-749C, Ford 19E715-DA | 5 | 469.0913340* |
| Block fitting, Opel/Vauxhall 90459251, 9117115/1618132, 1850711 | 5 | 469.09M2144* |
| Block fitting Volvo 3537508, 3522592 | 5 | 469.09208 |
| Volvo/Saab 6847526 | 5 | 469.0913463* |
| Nippondenso/Sanden 18mm ID compressor manifold | 5 | 469.09116 |
| Green or Red oval cross section, Ford YF-1475, 390697-S | 5 | 469.09OV116* |
| Ford W702645 | 5 | 469.0913364* |
| Valve O-ring, Audi/VW 1H0-820-749, 1H0-820-749G | 5 | 469.09M2141* |
| Mercedes w/ Nippondenso comp. 000-230-00-56 | 5 | 469.09M2152* |
| Opel/Vauxhall 6556407, 1854905, GM switchport | 5 | 469.09118 |
| Volvo/Saab 1324181 | 5 | 469.0913371* |
| Alfa Romeo 60811547, Chrysler N806959-S, Citroen/Peugeot 6457R1, Ford YF-1593, 1962, N805340-S, N806959-S, 6-671-099, Jaguar JYX100140, Mercedes 6556621, Nissan J2657-06W60, 27739-B8065, and numerous other applications | 5 | 469.09211 |
| Audi/VW 701-820-749G | 5 | 469.0913395* |
| GM/Harrison Compressors (Oval cross Section) Opel/Vauxhall 6558587 | 5 | 469.09OV211* |
| BMW 64-50-8-363-041, Opel/Vauxhall 1850723, 9050832, Sanden SD708, SD709 shaft seal seat, Chrysler Compressor RV2 Discharge Muffler | 5 | 469.09568119* |

AUTO A/C MAINTENANCE ASSORTMENT

| Tray 5 - 163 Pieces | Qty. | Art. No. |
|---|------|--------------|
| Audi/VW 400-260-749A | 5 | 469.0913388* |
| Standard Hose Fitting #6 - 3/8" | 25 | 469.09011 |
| Standard Hose Fitting #8 - 1/2" | 25 | 469.09013 |
| Standard Hose Fitting #10 - 5/8" | 25 | 469.09015 |
| Standard Hose Fitting #12 - 3/4" | 25 | 469.09017 |
| Chrysler, Ford, Mercedes OEM, LS R-134a 13mm port M10x1.25 | 2 | 469.6085 |
| Low side cap fits 469.6085 | 2 | 469.9537 |
| Chrysler, Ford, GM OEM, HS R-134a 16mm port M12 x 1.5 | 2 | 469.6105 |
| High side cap fits 469.6105 | 2 | 469.9536* |
| 13MM LS cap fits 469.132585 | 2 | 469.09623* |
| Aeroquip-style OEM R-134a Low Side Port with valve | 2 | 469.132585 |
| 16MM HS cap fits 469.132655 | 2 | 469.09624* |
| Aeroquip-style OEM R-134a high side port with valve | 2 | 469.132655 |
| 8mm GM Block fitting "Slim Line" | 2 | 469.09887 |
| 11mm GM Block fitting "Slim Line" | 2 | 469.09888 |
| 15mm GM Block fitting "Slim Line" | 2 | 469.09889 |
| 17mm GM Block fitting "Slim Line" | 2 | 469.09890 |
| 5/8" Thick Black | 2 | 469.09638 |
| 5/8" Thick Silver | 2 | 469.09639 |
| 3/4" Thin Silver | 2 | 469.09640 |
| Standard Valve Core | 2 | 469.9545 |
| GM Late Model High Flow Valve Core | 2 | 469.9547 |
| JRA (Japanese Refrigeration Association) High Flow Valve Core | 2 | 469.9548 |
| 8mm Low Side Valve Core | 2 | 469.09676* |
| 10mm High Side Valve Core | 2 | 469.09677* |
| R-134a Peugeot/ Volvo High Flow Valve Core | 2 | 469.09679* |

A/C SYSTEM SUPER FLUSH



Art. No. 892.76404 4 L

- Ester-based flush is compatible with R-134a, R-22 and R-12 A/C lubricants
- Absorbs and carries moisture from the system
- Will not react with copper, aluminum or brass
- Will not harm O-Rings, hoses, PAG, mineral or ester oil
- Non-hazardous and non toxic
- Non-flammable
- Biodegradable and environmentally friendly
- Aids in lubricating compressor
- Use approximately 1 litre per application

FLOW CONTROL FLUSH GUN



Art. No. 891.1300

- Flow control flush gun can be used with or without air hose attached
- Ideal for removing contaminants, moisture and acid from air conditioning systems using R-134a and R-12 refrigerants

FAST EVAPORATION A/C FLUSH WITH GUN KIT



Art. No. 892.76403 236 mL

Pressurized flush treatment for automotive A/C systems

- Ready to use high pressure flush
- Excellent cleaner, fast evaporating
- Safe for all air conditioning systems
- Removes oil, debris and other contaminants from air conditioning systems components
- Constant pressure until can is empty
- Quick drying under vacuum

Includes a re-usable flush gun and hose

A/C SYSTEM FLUSHING AGENT



Art. No. 892.76402 425 g

Pressurized flush treatment for automotive A/C systems

- Ready to use high pressure flush
- Excellent cleaner, fast evaporating
- Safe for all air conditioning systems
- Removes oil, debris and other contaminants from air conditioning systems components
- Constant pressure until can is empty
- Quick drying under vacuum

Note: To be used with gun and hose from 892.76403 kit

UNIVERSAL HIGH SIDE IN-LINE FILTER



Art. No. 469.13128

- OEM tested and approved
- Protect against costly repeat compressor failure
- Single kit fits 5/16", 3/8" and 1/2" lines
- Captures residual debris in the A/C System
- Can be used as a line splice or repair device for damaged orifice tube holders
- Incorporates any size orifice tube with included installation clip
- Quick and easy leak free installation
- Requires only 4" of straight refrigerant line
- Tapered sealing sleeve provides 10 times the sealing area of older filter designs
- Shorter overall filter length, with 3 times the capacity of older filter designs; reduces pressure and flow restrictions
- Provides the reliable solution technicians have been asking for to reduce comebacks on compressor replacements, especially rear A/C systems

AIR CONDITIONING RETRO-FIT COMPONENTS – PREFIX 469

7502



9536



7513



75139



9537



75013



972954



715175



9545



9547



9548



7406

R134A ALUMINUM MANIFOLD GAUGE WITH 72" HOSES & COUPLERS



Art. No. 764.27491

- Includes 72" hoses - red, blue, yellow and service couplers
- Scales in PSI and BAR measurements
- Large display gauge for visual inspections
- Auxiliary vacuum line access port

AIR EVAC II TOOL



Art. No. 714.5518

For professional cooling system service. Refill cooling systems without airlocks. The coolant refiller is an economical alternative to the original Air-Evac unit. This nylon composite version rather than brass does the same function of evacuating air, leak testing and refilling coolant systems.

Features:

- Built in venturi assembly
- Easy push button vacuum control valve
- Recessed Gauge with protective collar
- Universal cone adapter fits most radiators
- Durable plastic with nylon weave for added strength

Benefits:

- Fast re-filling of cooling system in minutes
- No need to jack up suspension or use time consuming bleed valves
- No airlocks means no comebacks saving time and money
- Built in leak test ensures system integrity before filling
- Clean and fast - no mess- no spills
- Saves time: easier use through not changing hoses
- Saves time figuring out which adapter fits
- No worries about broken gauges and needing replacement
- No need to interchange hoses
- One size fits all radiators, including imports

Target:

End user markets, service centers, dealerships, radiator shops.

Application:

The **AIR-EVAC II** tool uses shop air to pull a vacuum on the system, checks for leaks if the system holds vacuum, refills the entire system with coolant in just seconds and eliminates any possible airlocks. The tool is to be used on a drained radiator (the rest of the system may contain residual coolant). Operated by shop air, the tool will evacuate the air in the system via a powerful vacuum. You then perform a vacuum leak test on the system by determining if the vacuum holds. Then, simply refill the system by opening a valve and allow the vacuum created to draw the coolant mixture back into the system. It does not require interchanging hoses mid operation as the venturi is built in. Vacuum gauge is recessed for better protection and it comes with a universal fit all cone adapter.

Air Evac II assembly:

- Venturi connector and hose
- Fill hose with filter
- (4) sizes of rubber adapters and (1) cone adapter

4-5 PIN TRAILER HARNESS TESTER



Art. No. 695.0045

The 4/5 Pin Trailer Harness Tester quickly and easily checks electrical harnesses and traces each lighting function to the terminal in question.

Features:

- Plugs into the trailer plug
- Each led light corresponds to the circuit being energized
- Provides an easy to connect ground terminal for trailer lighting setup
- T = Tail Lights; LT = Left Turn; RT = Right Turn; A = Accessory

6 ROUND PIN TRACTOR TRAILER CIRCUIT TESTER



Art. No. 695.0052

The 6-Way Round Pin Tractor Trailer Circuit Tester quickly and easily tests trailer circuits on older light and medium duty trucks and campers.

Features:

- LEDs indicate that each circuit is working
- "Winged" grip for easy removal from electrical connector
- Weatherproof
- LT = Left Turn; RT = Right Turn; EB = Electric Brake; TM = Tail & Markers
- 12v = 12 volts

7 ROUND PIN TRACTOR TRAILER CIRCUIT TESTER



Art. No. 695.0057

The 7 round pin tractor trailer circuit tester allows one-man testing of towing circuits, male and female 7-way round pin tractor trailer plugs, at the back of the truck.

Features:

- Troubleshoot tractor trailer circuits
- One person can now test all the lighting
- Allows bypassing of troubled circuitry while on the road
- Eliminates guesswork
- Packaged with an extra jumper connector
- "Winged" grip for easy removal from electrical connector

7 FLAT SPADE PIN TRAILER CIRCUIT TESTER



Art. No. 695.0058

The 7-Way Flat (Spade) Pin Trailer Circuit Tester quickly and easily tests trailer circuits on most light and medium duty trucks and campers.

Features:

- Plugs into the vehicle side socket
- LEDs indicate that each circuit is working
- "Winged" grip for easy removal from electrical connector
- LT = Left Turn; RT = Right Turn; TM = Tail & Markers; BU = Back-up Lights; BK = Brake (LT/RT Illuminated)
- 12V = 12 Volts

3-WAY TRAILER ADAPTER



Art. No. 695.0080

One adapter for all your trailer needs. The 3-Way Trailer Adapter allows 7-way flat (spade) pin type terminal connections to 6-way round pin and 4/5 pin trailer connections.

Features:

- Sealed plugs to keep road debris from corroding connections
- Made from strong nylon 6
- "Winged" grip for easy installation and removal

7 SPADE PIN TRAILER TESTER



7-WAY FLAT (SPADE) PIN



Art. No. 695.07001

Professional trailer, utility, boating and RV trailer tester, that saves time and reduces guesswork by powering trailer without the vehicle.

Features:

- Durable, rugged, portable, water resistant compartment
- Tests 7 flat, 6 round, 4/5 flat pins
- Trickle charger and trailer plug adapter included
- External 12V power port
- Internal battery compartment (battery not included)

Benefits:

- Convenient trailer light tester & brake tester without use of a vehicle
- Short circuit protection
- Turn signal simulation and power verification LED
- For use on DC circuitry only
- External power port can be used as a memory saver, test light supply or as a trickle charge input

| Specifications | |
|---------------------|--|
| Input | 12V DC |
| Output | 10A - 12V DC |
| Battery Required | Yes |
| Battery Dimensions | L:6" x W:4" x H: 5 3/4" (YTX-14 or similar) |
| Circuit Protection | Automatic resetting internal breaker |
| Connection Type | 7 flat, 6 round, 4/5 flat pin |
| Controls | Manual control knob |
| Weight | 2 lbs. (without battery) |
| Packaged Dimensions | L:11.582" x W:5.070" x H:7.143" |
| Includes | 3-Way trailer adapter & 500 mA trickle charger |

Note: Recommended Battery Art. No. 827.000003 or similar 12V block motorcycle battery

7 ROUND PIN TRAILER TESTER

Art. No. 695.07002

Commercial trailer and electric brake tester, that saves time and reduces guesswork by powering trailer electrical circuit in 7-way round pin arrangements without use of the truck.



Features:

- Durable, rugged, portable, water resistant compartment
- Tests 7-way round pins
- Trickle charger included
- External 12V power port
- Internal battery compartment (battery not included)

Benefits:

- Allows for proper verification of wiring configuration, ground integrity, short circuit and overload conditions, along with electric brake operation and turn signal simulation
- Short circuit protection
- Turn signal simulation and power verification LED
- External power port which can be used as a memory saver, test light supply or as a trickle charge input
- For use on DC circuitry only

| Specifications | |
|---------------------|---|
| Input | 12V DC |
| Output | 10A - 12V DC |
| Battery Required | Yes |
| Battery Dimensions | L:6" x W:4" x H: 5 3/4" (YTX-14 or similar) |
| Circuit Protection | Automatic resetting internal breaker |
| Connection Type | 7-way round pin controls |
| Controls | Manual control knob |
| Weight | 2 lbs. (without battery) |
| Packaged Dimensions | L:11.582" x W:5.070" x H:7.143" |
| Includes | 500 mA Trickle charger |

Note: Recommended Battery **Art. No. 827.000003** or similar 12V block motorcycle battery

PREMIUM GLADHANDS & REPLACEMENT SEALS



- Brightly coloured powder coat for corrosion resistance, less wear and therefore longer service life.
- Cast aluminum.
Corrosion resistant material provides longer product life during harsh Canadian winters.
- Stainless steel clamp and wear plate eliminate corrosion of these important mating surfaces.
- Colour matched polyurethane seals resist oil and chemicals, providing improved sealing and longer service life.
- Includes filter.

| Premium Gladhands | | | | |
|-------------------------|---------------|--------|------------------|---------|
| Configuration | Material | Filter | Art. No. | P. Qty. |
| Emergency Red | Powder Coated | Yes | 885.32.03 | 2 |
| Service Blue | Powder Coated | Yes | 885.32.04 | |
| Service & Emergency Set | Powder Coated | Yes | 885.32.05 | 1 kit |

Note: **Art. No. 885.32.05** includes one each of **Art. No. 885.32.03** and **885.32.04**



GH-SEAL STANDARD



GH-SEAL-2 UMBRELLA

| Replacement Seals | | |
|-------------------|----------------------|----------------------|
| Colour Code | Type | Art. No. |
| Black | Rubber | 884.GH-SEAL |
| | Rubber Umbrella Seal | 884.GH-SEAL-2 |

STANDARD GLADHANDS



- Cast aluminum.
Corrosion resistant material provides longer product life during harsh Canadian winters.
- Stainless steel clamp and wear plate eliminate corrosion of these important mating surfaces.
- Polyurethane seals resist oil and chemicals, providing improved sealing and longer service life.

Recommended:

Replacement Seals **Art. No. 884.GH-SEAL** and
Art. No. 884.GH-SEAL-2

| Standard Gladhands | | | | |
|--------------------|----------|--------|------------------|---------|
| Configuration | Material | Filter | Art. No. | P. Qty. |
| Emergency Red | Aluminum | No | 885.32.01 | 2 |
| Service Blue | | | 885.32.02 | |

RATCHET ASSEMBLIES



Art. No. 713.459822

30' Ratcheting strap with wire hook

| Strap | | | |
|----------------------|--------------------|-------|--------|
| Breaking Strength | Working Load Limit | Width | Length |
| 10,000 lbs / 4545 kg | 3333 lb/ 1515 kg | 2" | 30' |

| End | | | |
|----------------------|--------------------|----------------|------------|
| Breaking Strength | Working Load Limit | Description | Dimensions |
| 10,000 lbs / 4545 kg | 3333 lb/ 1515 kg | Narrow hook 2" | 3.9" Long |

WINCH STRAP ASSEMBLIES

Art. No. 713.41660



3" Winch strap with chain anchor

- Heavy-duty, wear- and weather-resistant load control straps
- Strong, dependable hardware for the demanding conditions of flatbed operations
- Meets or exceeds standard WSTDA T-1 specifications for synthetic fiber webbing tiedowns
- Also complies with California Highway Patrol specifications

| End | | | |
|----------------------|--------------------|-------------------------------|------------|
| Breaking Strength | Working Load Limit | Description | Dimensions |
| 16,200 lbs / 7363 kg | 5400 lbs / 2452 kg | Anchor point, with delta ring | 17" |

| Strap | | | |
|----------------------|--------------------|-------|--------|
| Breaking Strength | Working Load Limit | Width | Length |
| 16,200 lbs / 7363 kg | 5400 lbs / 2452 kg | 3" | 30' |



Art. No. 713.43795

4" Winch Strap with Chain Anchor

| Strap | | | |
|-----------------------|---------------------|-------|--------|
| Breaking Strength | Working Load Limit | Width | Length |
| 16,200 lbs. / 7363 kg | 5400 lbs. / 2452 kg | 4" | 30' |

| End | | | |
|-----------------------|---------------------|--------------|---------------|
| Breaking Strength | Working Load Limit | Description | Dimensions |
| 16,200 lbs. / 7363 kg | 5400 lbs. / 2452 kg | 3" Flat Hook | 3.75" x 3.25" |

WEB WINCH



Art. No. 713.435641

Low Profile Portable with 2 Set Screws

- Minimum breaking strength of 18,000 lbs/ 8,164 kg
- Working load limit of 6,000 lbs/ 2,721 kg
- Complies with DOT, California CHP, WSTDA-T3 and Canadian Standard 905
- Seamless solid-steel mandrels, high-strength alloy pawl pins
- Available in different configurations to suit your various load requirements for flatbed applications
- Powder coated to resist abrasion and rust
- Right hand models
- Periodically inspect, clean and lubricate winches

| | |
|---------------|------------------|
| Style | Side Mount |
| Weight | 10.1 lbs/ 4.6 kg |
| Overall Width | 7.49" |
| Spool Width | 4.63" |
| Frame Height | 4.07" |
| Frame Depth | 4.00" |

RUBBER TIES



- 6.82 kg/15 lbs of tension
- Crimped hooks to prevent loss
- Designed to hold tarp covers on trucks and trailers
- Not to be used to restrain or secure cargo
- Molded rubber construction for high ozone resistance and stretch resiliency
- Stretches up to twice its length

| Description | Art. No. |
|-------------|------------------|
| 15" | 713.41567 |
| 21" | 713.41569 |
| 31" | 713.41571 |
| 41" | 713.41573 |

TENDER KIT – 25" DOUBLE



Art. No. 885.94212

- Large snap clip
- Heavy duty clamp hanger
- Heavy duty spring
- Protective sleeve
- Yoke included

HEAVY DUTY 7 – WAY SOCKET



Art. No. 560.67072

- Die-cast zinc housing for rugged use
- Meets SAE J560 requirements
- Machined brass terminal pins for maximum current carrying ability
- Can be repaired with standard tools, allowing for field repairs
- Bull-nose style cover allows for one-handed connection
- Designed to divert water and other road dirt
- Stainless steel latch spring
- Interchangeable with other SAE-type 7-way connectors

HEAVY DUTY 7 – WAY PLUG



Art. No. 560.67071

- Die-cast zinc housing for rugged use
- Meets SAE J560 requirements
- Machined brass terminal pins for maximum current carrying ability
- Split pin design
- Can be repaired with standard tools, allowing for field repairs
- Includes spring guard for improved cable protection
- Interchangeable with other SAE-type 7-way connectors

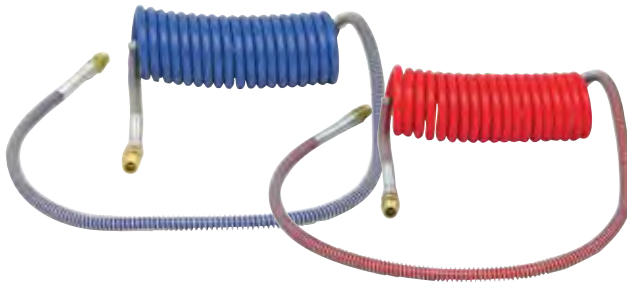
UNIVERSAL MOUNTING BRACKET



Art. No. 560.67000

- Mounting bracket for **Art. No. 560.67072**
- Black powder coated

AIRCOILS



- Coiled, 1/2" O.D., reinforced, nylon tubing
- Excellent coil memory and durability
- Each set includes both colour-coded (red = emergency / blue = service) assemblies
- Meets SAE J844 and DOT FMVSS 106 - (49 CFR 571.106 & 49, CFR 393.45)
- Designed for 150 psi operating systems
- Resistant to attack by gasoline, diesel fuel, methyl-alcohol and zinc chloride
- Male pipe - brass fittings
- Heavy duty plated spring guards
- Aircoils with 1/2" NPTF fittings

| Tube O.D | Length | Tractor End Pigtail Length | Fitting (thread) | Trailer End Pigtail Length | Flex-grip (thread) | Art. No. |
|----------|--------|----------------------------|------------------|----------------------------|--------------------|-------------------|
| 1/2" | 15' | 12" | 1/2" | 12" | 1/2" | 885.60.100 |
| 1/2" | 15' | 40" | 1/2" | 12" | 1/2" | 885.60.120 |

AIR POWER LINE 3 IN 1

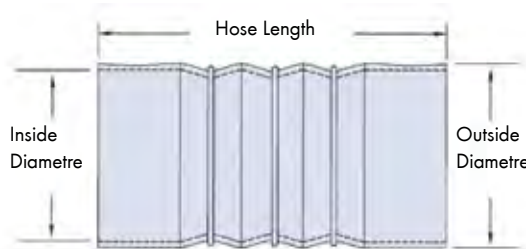


Art. No. 885.60.340

The 3 in 1 Air Power Line contains:

1. Service air line
2. Emergency air line
3. ABS power line (green) all enclosed in spiral wrap
 - Hanger bracket mounting assembly included for easy suspension
 - Red and blue flex-grips for easy identification and gladhand connection
 - Air lines have swivel fittings at tractor end for quick installation
 - Power line is fully ABS compatible
 - Length: 15'

CHARGE AIR COOLERS HOSE – COLD



Construction

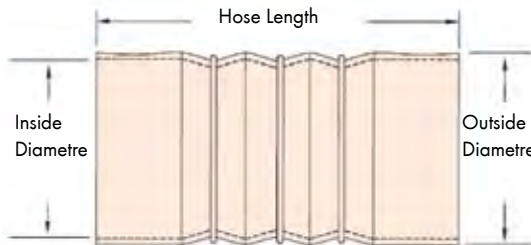
- 4 plies of silicone rubber with polyester woven reinforcement with blue cover and 304 stainless steel restraining rings

Operating Temperatures

- -65°F to + 350°F
- -54°C to + 177°C
- Designed and engineered to connect engine mounted charge air systems
- UV and ozone resistant
- Ideal for minor misalignments and handling vibration between hose ends
- 304 stainless steel rings reduce swelling and increase hoop strength

| Colour | I.D. | | Overall Length | Inches | Art. No. | P. Qty. |
|--------|-------|-----|----------------|--------|-------------|---------|
| | mm | in. | mm | | | |
| Blue | 101.6 | 4" | 152.40 | 6" | 897.9080004 | 1 |

CHARGE AIR COOLERS HOSE – HOT



Construction

- 4 plies of silicone rubber with aramid woven reinforcement with red cover and 304 stainless steel restraining rings

Operating Temperatures

- -65°F to + 500°F
- -54°C to + 260°C
- Designed and engineered to connect engine mounted charge air systems
- UV and ozone resistant
- Ideal for minor misalignments and handling vibration between hose ends

| Colour | I.D. | | Overall Length | in | Art. No. | Qty |
|--------|-------|----|----------------|----|-------------|-----|
| | mm | in | mm | | | |
| Red | 101.6 | 4" | 152.40 | 6" | 897.9080104 | 1 |

WÜRTH UNIVERSAL LINE SPLICES – EXTENSIONS



Aluminum Tubes

Features:

- Replace up to 12" (305mm) of damaged metal line with pre-cut aluminum tubes
- Standard and Metric sizes available

| Description | Length | O.D. | Art No. | P. Qty |
|------------------------|--------|------|------------|--------|
| Aluminum Tube (Metric) | 12" | 10mm | 764.000835 | 4 |

WÜRTH UNIVERSAL LINE SPLICES – LINE TO LINE

Air conditioning, heater, transmission and power steering lines and hoses are exposed to road debris, salt, weathering and sometimes burst or crack. Such problems create major failure in the engine compartment and it becomes necessary to replace OEM parts. Metal lines, rubber hoses, intensive labour lead to time consuming and cost-prohibitive repairs.

Features:

- Durable repairs for A/C, heater, transmission, and power steering lines
- OE approved
- Efficient, permanent, leak-free repairs in less than 10 minutes
- Resists up to 2,600 psi
- SAE & Metric sizes
- Metal to metal, metal to hose, straight & 90 degree connectors
- Barrier hose and aluminum lines available in various diameters

Benefits:

- No special tools needed
- No welding, glue, or sealing chemicals required
- No line removal
- Resists vibration leaks

Areas of application:

- Air conditioning lines
- Heating & cooling lines
- Engine oil lines
- Engine oil cooler lines
- Power steering return lines
- Transmission lines
- Transmission oil cooler lines



Seal Sleeve - up to 8 times more sealing surface area than O-Ring

Self-adjusting, anti-vibration tension ring - resists vibration leaks

| Description | O.D. | Art No. | P. Qty |
|--|------|------------|--------|
| Line Splice Straight Repair Kit (Metric) | 10mm | 764.000855 | 1 |
| | 12mm | 764.000856 | |



Line Splice Straight Repair Kit

| Description | O.D. | Art No. | P. Qty |
|--|-------|------------|--------|
| Line Splice Straight Repair Kit (SAE Standard) | 5/16" | 764.000850 | 1 |
| | 3/8" | 764.000851 | |
| | 1/2" | 764.000852 | |
| | 5/8" | 764.000853 | |
| | 3/4" | 764.000858 | |

Line Splice 90° Repair Kit



| Description | O.D. | Art No. | P. Qty |
|---|-------|-----------|--------|
| Line Splice 90° Repair Kit (SAE Standard) | 5/16" | 764.00901 | 1 |
| | 3/8" | 764.00902 | |
| | 1/2" | 764.00903 | |
| | 5/8" | 764.00904 | |
| | 3/4" | 764.00905 | |

WÜRTH UNIVERSAL LINE SPLICES – LINE TO HOSE

Quickly connect metal line to rubber hose with a seal technology that's superior to traditional compression fittings!



Self-adjusting, anti-vibration tension ring

HNBR Seal Sleeve better than an O-Ring

Precision designed for leak prevention

Unique Burgaflex crimping system

| Description | Dimensions | Art No. | P. Qty |
|---------------------------|-----------------------|-------------------|--------|
| Splice Straight Connector | 1/2" Line to #8 Hose | 764.002111 | 1 |
| | 3/8" Line to #6 Hose | 764.002112 | |
| | 5/16" Line to #6 Hose | 764.002113 | |
| | 5/8" Line to #10 Hose | 764.002114 | |
| | 3/4" Line to #12 Hose | 764.002115 | |

Features:

- Leak-proof line splice technology on the metal side of the connection
- Superior Burgaflex hose crimp technology on the rubber side
- Installs in 5 minutes
- Meets OEM performance and durability requirements

Note: After cutting the aluminum tube, it is recommended to clean the edges and remove debris with the Deburring Tool Assortment-32 pieces, **Art. No. 965.42100**

SPLICE REPAIR CLAMP CRIMPER



Art. No. 714.10797

Features:

- Specifically designed to crimp the clamps on the hose-to-line splice connector
- Auto stop function to avoid over tightening the clamps or damaging the rubber hose
- Easy to use with ergonomic plastic handles

17 WELDING

- 2** Welding Spray
- 3** Micro-Grip Welding Clamp
- 3** Welding Rods
- 3** Welding Tools & Sets
- 4** Welding Blanket



WELDING ANTI-SPATTER SPRAY



Art. No. 893.1021 389 g

Ecologically friendly welding protection spray, prevents the welding injector and the weld tip from tacking to the work surface

- Environmentally safe
- Silicone free, therefore will not affect lacquer, galvanizing, chrome plating, etc.
- Protects the work piece as well as the welding torch nozzle against adhesion of weld material
- The spray is an additional corrosion protector
- Colour: Transparent

PROTECTIVE WELDING SPRAY



This Protective Welding Paste and Gel are used in the prevention of heat transfer on any metal from one point to another.

Features:

- Recommended for use on any metal, to prevent heat transfer between contact points.
- Provides temporary fire retardant properties.
- Hours of protection for materials compromised during welding or soldering.
- Stop heat from travelling down the pipe.
- Used as a thermal block to stop heat from travelling to unwanted areas (ie. Valves).
- Protects painted surfaces from damage during soldering, brazing or welding.
- Non-Corrosive.
- Non-Flammable.
- Non-Toxic.
- 100% Biodegradable.

Applications:

HVAC (Heating, Ventilation, Air Conditioning) & Plumbing Industry

- When installing plumbing or HVAC valves apply Protective welding paste between the valve and the area to be heated. This will significantly reduce or stop heat from reaching the valve thereby protecting the seals
- Protect painted surfaces from heat damage while soldering joints
- Protect wood, sheetrock, wires, insulation (all types), etc. virtually any surface from heat related damage caused by torch heat during soldering, brazing or even welding.

Welding Industry

- Apply protective welding paste on each side of the weld area to reduce heat transfer, discoloration & distortion on lightweight metal
- Protect adjacent surfaces to the weld area from fires and heat related damage

Automotive Industry

- Protect painted surfaces from heat related damage or damage from weld spatter.
- Apply to finished surfaces (ie. Painted metal surfaces, plastic, cloth, vinyl, etc.) to protect from heat of torch or weld spatter
- Apply in the following areas: CV Boots, Muffler / Exhaust Work, Under the Dash Wiring, Heavy Truck Industry and in the Body Shop.

Note: Protective Welding Paste is a thicker version of the Spray Gel and provides added protection from higher temperatures. The Protective Welding Paste temperature resistance can be as high as 7500°F or 4148°C.

| Description | Contents/Weight | Art. No. |
|--------------------------------|-----------------|----------|
| Protective Welding Spray (Gel) | 946 mL | 893.7402 |

MICRO-GRIP WELDING CLAMP



Art. No. 714.0932

Small grip pliers with toggle joint clamping system

- Adjustable toggle joint clamp, jaw width 0-12 mm
- Always guarantees highest clamping force in extremely small space
- Compact design (overall length 92 mm) and low weight of 120 g
- Handy, practical and universally usable
- Advantage through use of high-strength aluminum
- Easy handling, resistant against welding splashes, suitable for aluminum repairs

WELDING RODS



| Size | Rec. Amperable | Art. No. | P. Qty. |
|-------|----------------|-----------------|-------------|
| 3/32" | 20-75 | 987.0332 | 1 = 10 lbs. |
| 1/8" | 75-130 | 987.018 | |

E7018 AC Welding Electrode

- Low-hydrogen type welding electrode
- Optimum characteristics when used with an AC power source
- Very easy to strike and has an extremely stable arc giving it excellent operator appeal
- Welds exceptionally well on small, utility-type welders
- All position rod for AC or DC reverse polarity current

OXY-ACETYLENE LIGHTER



Recommended:
Replacement Flint 5-pk.
Art. No. 984.12238
P.Qty: 1



Art. No. 984.12237 Qty. 1

- Lightweight
- Dependable
- Large round file and hood
- Length: 19 cm (7 1/2")

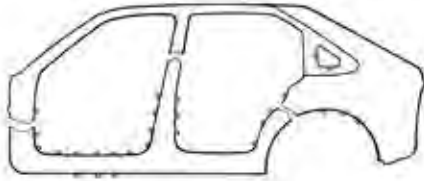
SPRING HANDLE CHIPPING HAMMER



Art. No. 984.12111 Qty. 1

- For slag removal
- Cross chisel hammer has head the opposite of the straight head
- Metal spring handle
- Length: 27 cm (10 1/2")
- Head length: 16 cm (6 1/4")
- Weight: 0.45 kg (1 lb)

FIXING CLAMP SET



Art. No. 965.74417

For quick and easy fixing of sheet metal for welding or bonding

Quick fastening and loosening of clamps

Enormous time savings in comparison to impact or screw clamps.

Most economical alternative to conventional vise-grip pliers
Lowest purchasing cost.

Large clamping range in comparison to clamp size

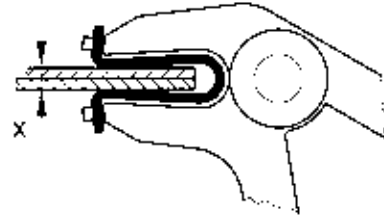
Owing to their small size (corresponding to a door seal), gap dimensions can be set without effort.

No cumbersome loosening or opening of clamps

Readjustment of sheet metal possible at any time without problem.

The special angled shape of the pliers allows universal use of the clamps

Use clamps in tight spaces, such as trunk edges, hatchback, door columns, triangular windows, etc.



Contents:

| Description and contents of set | Sheet metal thickness in mm | Art. No. | P. Qty. |
|---------------------------------|-----------------------------|------------|---------|
| 8 fixing clamps | 0 - 2.5 | 713.744025 | 5 |
| 8 fixing clamps | 2.5 - 5 | 713.744050 | |

Instructions for use:



1. Insert the fixing clamp into the special pliers and open the clamp.



2. Slide the clamp over the sheet metal edges to be joined and release the pliers.



3. The powerful force of the fixing clamp keeps the clamped sheet metal in place. To remove the fixing clamp, slide the pliers over it and open the clamp.

WELDING BLANKET



Art. No. 984.100 Qty. 1

- 96.5 x 61 cm (38" x 24") weld-o-glass blanket
- Made of 32 oz. red fibreglass, silicone coated
- 3/4" hem and 3" bottom pocket sewn
- Offers spark + molten protection



SHOP ONLINE NOW!

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