

07 GENERAL TOOLS

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*Images shown may vary from actual product

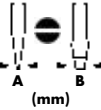
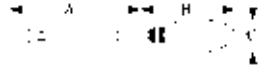

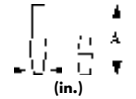
3K HEX BLADE SLOTTED SCREWDRIVER



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


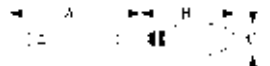


3K HEX BLADE PH SCREWDRIVER



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


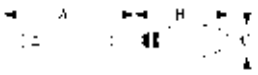


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	A (mm)	B/C (mm)				
PH 1	80	96/31	5/8	3 1/8"	613.2011	1
PH 2	100	106/35	6/10	4"	613.2012	
PH 3	150	114/38	8/13	6"	613.2013	

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


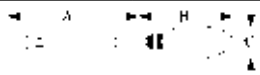

					Art. No.	P. Qty.
	A (mm)	B/C (mm)				
PZ 1	80	96/31	5/8	3 1/8"	613.2021	1
PZ 2	100	106/35	6/10	4"	613.2022	
PZ 3	150	114/38	8/13	6"	613.2023	

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	80		3 1/8"	613.20310	
TX 15		96/31		613.20315	
TX 20	100	4"	613.20320		
TX 25			613.20325		
TX 27	115	4 9/16"	613.20327		
TX 30		106/35	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		Art. No.		Art. No.	P. Qty.
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			


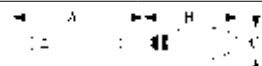

3K SCREWDRIVER SET (TX)



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

				Art. No.	P. Qty.
	A (mm)	B/C (mm)	(in.)		
TX 8	60	83/27	2 3/8"	613.20308	1
TX 10	80		96/31	3 1/8"	
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

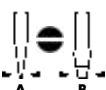
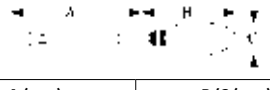


The flexible 3-component handle ensures an optimal, sensitive seat in the hand and allows connection with the robust design also the highest power transmission.

SLOTTED SCREWDRIVERS



Hexagon blade, impact cap & wrench adapter

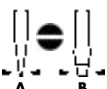
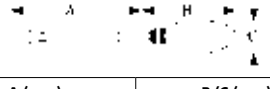


- Blade: Matt chrome-plated
- Large impact cap
- Tip: DIN 5264-A, ISO 2380, Black Point
- Wrench adapter

					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


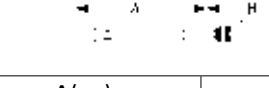

					Art. No.	P. Qty
	A (mm)	B/C (mm)				
0.6 x 3.5	80	83/27	4/-	1/8 x 3 1/16"	613.421035*	1
0.8 x 4.0	90	96/31	5/8	5/32 x 3 5/8"	613.421004*	
1.0 x 5.5	100			7/32 x 4"	613.421055	
1.2 x 6.5	125	106/35	6/10	1/4 x 5"	613.421065	
1.6 x 8.0	150	114/38	8/13	5/16 x 6"	613.42108	
1.6 x 10.0	175			3/8 x 7"	613.42110	
2.0 x 12.0	200			120/40.5	10/16	

* without wrench adapter



Round blade

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265


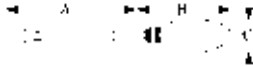

			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
0.5 x 3.0	80	73/20	1/8" x 3 1/8"	613.23103	1
1.2 x 6.5	150	106/35	1/4" x 6"	613.231065	
1.6 x 10.0	200	114/38	3/8" x 8"	613.23110	

SLOTTED SCREWDRIVERS



Round blade, narrow


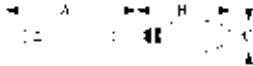
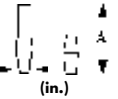
- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: SMS SS 2830, DIN 5265

				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


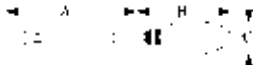
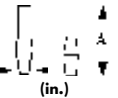
- Blade: Matt chrome-plated, long model
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265

				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


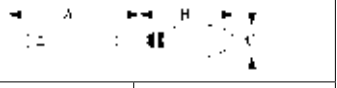


				Art. No.	P. Qty.
	A (mm)	B/C (mm)			
1.2 x 8.0	25	62/31	5/16 x 1"	613.25108	1

PH SCREWDRIVERS



Hexagon blade, impact cap, wrench adapter


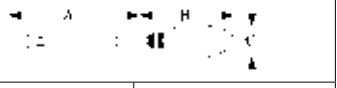


- Large impact cap
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point

					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


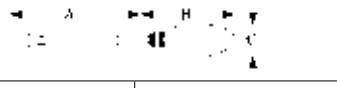

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point

					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


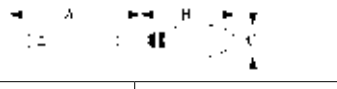

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831

				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


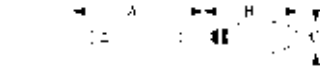
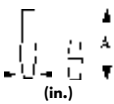
				Art. No.	P. Qty
	A (mm)	B/C (mm)			
PH 1	300	96/31	12"	613.2621	1
PH 2		106/35		613.2622	

PH SCREWDRIVER



Round blade, short

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831

				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




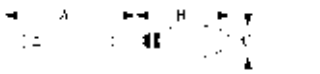


Wrench Size	Handle Length / Handle Width	Art. No.	P. Qty.
6 mm	96 / 31 mm	613.28606	1
7 mm	106 / 35 mm	613.28607	

PZ SCREWDRIVERS



Hexagon blade, wrench adapter


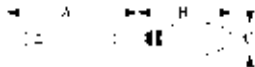

- Blade: Matt chrome-plated
- Tip: ISO 8764-PZ, Black Point

					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

			 (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		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

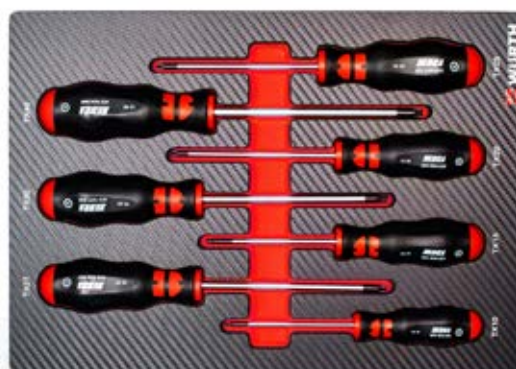
- Number of pieces in assortment/set – 8pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance



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

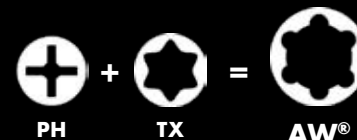


Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905502	1
Screwdriver TX with hole - TX-HO-TX10XL80mm	0613434810	
Screwdriver TX with hole - TX-HO-TX15XL80mm	0613434815	
Screwdriver TX with hole - TX-HO-TX20xL100mm	0613434820	
Screwdriver TX with hole - TX-HO-TX25xL100mm	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 DRIVE


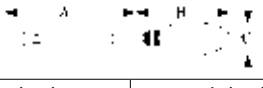


With its patented shape, the AW[®] drive combines the advantages of TX and PH / PZ drives. More power and optimum power transmission by a very good fit in the screw. The screw does not stagger, the tip of the screwdriver does not tend to slip during rotation.



SCREWDRIVER WITH 1/4" QUICK-CHANGE CHUCK




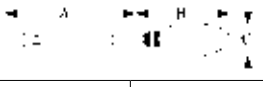


- Blade: Hexagon blade with wrench adapter, matt chrome-plated
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

 (in.)			 (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


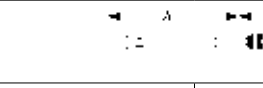

- Blade: Hexagon blade with wrench adapter, matt chrome-plated
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

 (in.)			 (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.)			 (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.)			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
1/4"	100	106/35	4"	613.43031	1


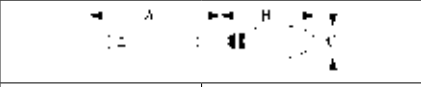

SCREWDRIVER WITH 1/4" TIP



One-piece blade

- Blade: Round, bright chromium-plated
- Tip: DIN 3120-A 6.3
- With ratchet adapter


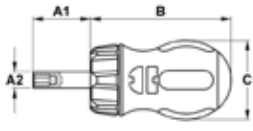


 (in.)			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
1/4"	110	106/35	4 3/8"	613.430310	1








MINI RATCHET SCREWDRIVER



 (in.)					Art. No.	P. Qty.
	A (mm)	B (mm)	C (mm)	A2 (mm)		
1/4"	26	70	38	20	613.63050	1

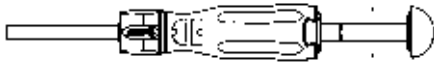
10-piece bit strip + PH2 bit

- 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	







Note: Articles in red are special orders only



Magnetic blade mount for 1/4" bits



Easy removal of the desired bit

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



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



	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				1
PZ 1		25	614.176651	
PZ 2			614.176652	
Slotted 0.8x5.5mm			614.175653	
Slotted 1.2x8.0mm			614.175656	
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			
Allen Head, 3 mm		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	1
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	
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

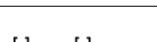
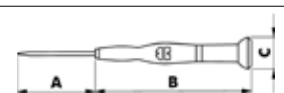

- Precision fitting

Blade: Circular blade, brushed chromium-plated

Output: DIN 5264-A, ISO 2380, Black Point


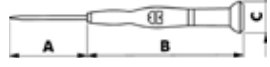

Slotted Precision Screwdriver



 A B (mm)			 (in.)		
	A (mm)	B/C (mm)		Art. No.	P. Qty
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	

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	60		2 3/8"	613.4810	
PH 1	80		3 1/16"	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.

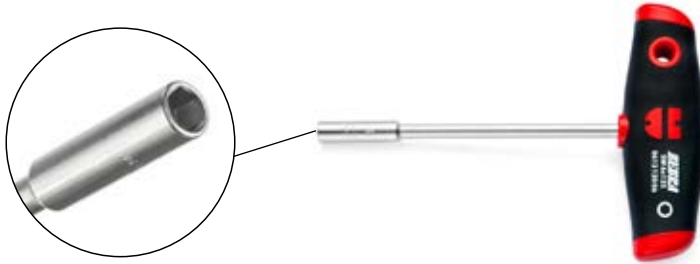
Blade: Round blade, matte chrome-plated.

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	


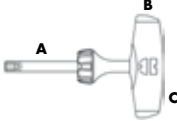
Note: Articles in red are special orders only

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

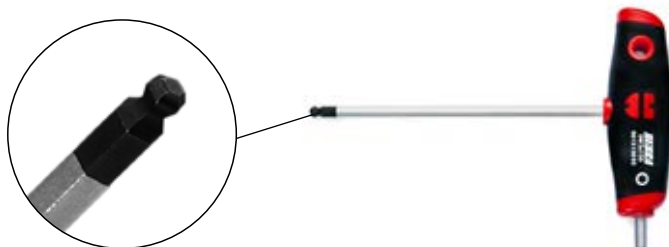


Art. No. 613.91205 5 pcs.

- Blade: Circular blade, nickel-plated
- Output: DIN 475/2
- Inner bore for protruding threaded shafts
- Standard: DIN 3125


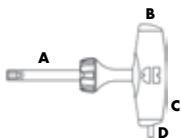
 (mm)	Blade Length (mm)	Art. No.	P. Qty.
6	125	613.12006	1
7		613.12007	
8		613.12008	
10		613.12010	
13		613.12013	

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"	35/105	17	613.13105				
6				613.13106				
8				613.13108				
10	150/6"	39/117	22	613.13110	Hex Head Tip			
2.5		27/82	13	613.132025				
3				613.13203				
4	150/6"	35/105	17	613.13204				
5				613.13205				
6				613.13206				
8	200/8"	35/105	17	613.13208				
3				27/82			13	613.13303
4								613.13304
5								613.13305
6	200/8"	35/105	17	613.13306				
8				613.13308				
10		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	613.132025	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


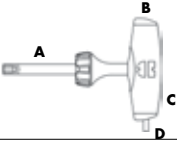
Multi-component handle comprising solid core and soft casing

- 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				613.14020	
TX 25	200/8"	35/105	17"	613.14025	
TX 27				613.14027	
TX 30				613.14030	
TX 40				613.14040	
TX 45				613.14045	
		39/117	22"		

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		613.14020	
TX 25	200	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

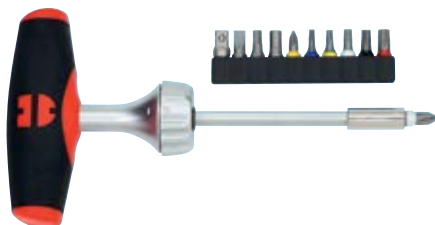
- Resistant even to extremely high stresses.

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

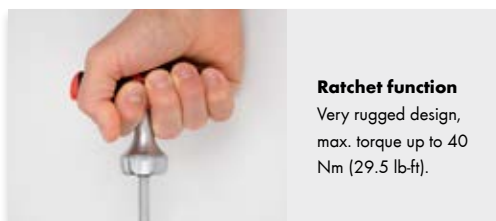
- Max. torque of up to 40 Nm

3-position adjustment wheel.

Adjustable with one hand


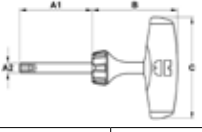
- Easy, one-handed change of direction while working

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: $\pm 6\%$ to the set value

In accordance with
DIN EN ISO 6789:2003,
Type II, Class D

Quick and simple adjustment of the torque scale 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



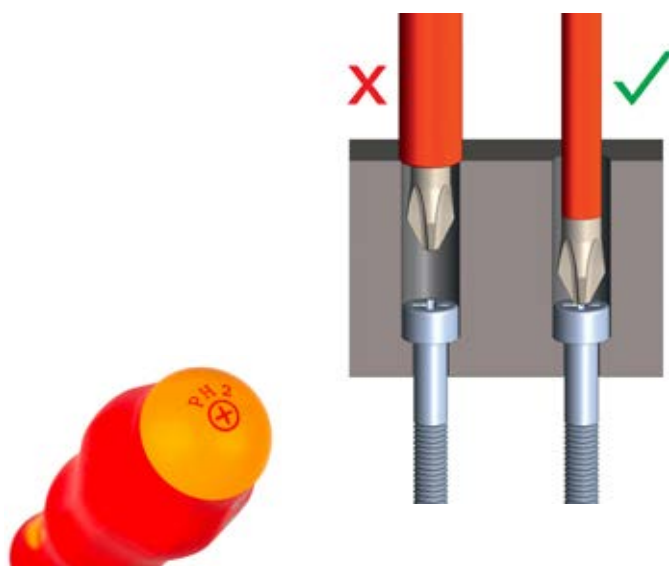
Art. No. 613.96325 5 pcs.

- 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

	A mm	A inch	B/C mm	B/C inch	Art. No.	P. Qty.
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



Contents:		
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		


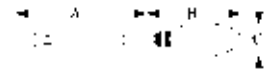
*Only available as a set

**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					613.63607	
8.0					613.63608	
10.0					613.63610	
13.0					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	



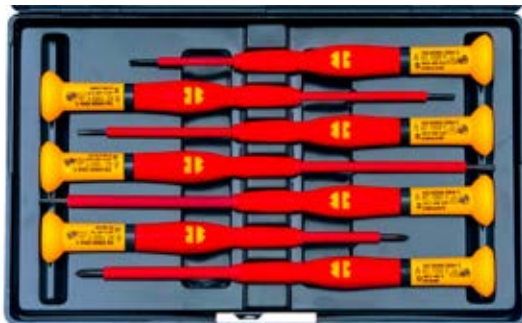
- Blade: Circular blade, insulated, bronzed
- Output: ISO 8764-PH
- Standard: EN 60900, IEC 60900



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®

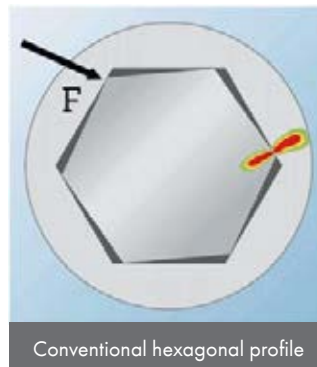
Würth Exclusive!

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			32	614.176648	5
PH 4				614.176750	





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
				614.6424	2
PH 2			100	614.6425	1
			155	614.6426	
PH 3			50	614.6423	2





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	

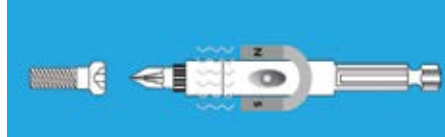
1/4" ONE TOUCH BIT HOLDER



Easy release and change of bit.



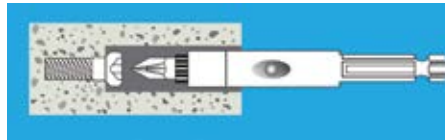
Push down the button to release the bit.



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.

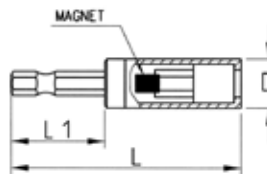
Art No. 614.176638 P. Qty. 1

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			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			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			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

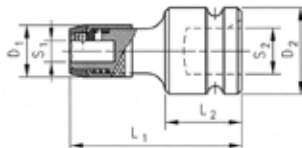


Non-magnetic holder

- 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			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.

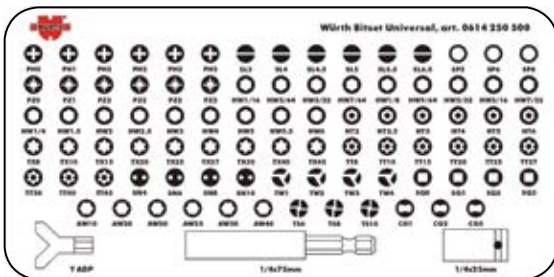
- 8 TX bits with hole, 10 mm, length 30 mm: TX 20, 25, 27, 30, 35, 40, 45, 50
- 8 TX bits, 10 mm, length 75 mm:
TX 20, 25, 27, 30, 35, 40, 45, 50
- 5 hex socket Bits, 10 mm, length 30 mm: Sizes 5, 6, 7, 8 and 10 mm
- 5 triple square bits, 10 mm, length 30 mm: XZN M 5, 6, 8, 10, 12
- 4 triple square bits, 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	
PH	1		614.176274	2
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"	25 mm	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	4
TX with hole	45		614.352645	
Claw Wrench	4/6/8/10		614.250302	
Three-wing	1/2/3/4		614.250303	
	6/8/10		614.250304	3
XZN	M4/5/6/8	70 mm	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	1
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

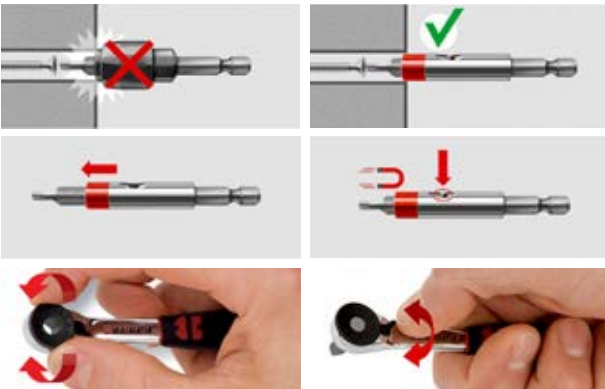
- Very compact ratchet head, very slim design, 10° angled
- Finely toothed, 64 teeth
- With 2-component comfortable handle

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	715.311100	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°

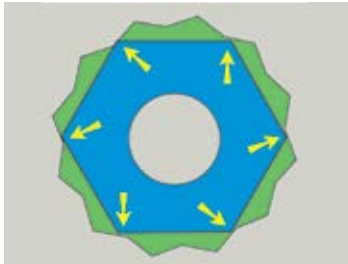
Set (hex symbol)	Contents (mm)	Art. No.	P. Qty.
9 Pcs	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10	715.4050	1

POWERDRIV®

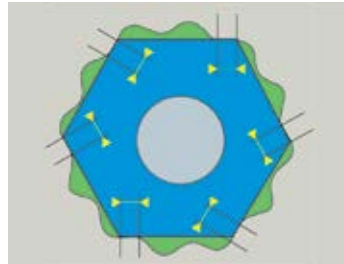
For secure gripping and high transmission of force.

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.

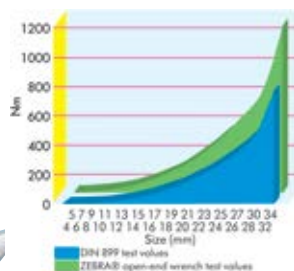


Precision

- The tight tolerances of the widths across flats guarantees greater reliability and safety when used intensively.



For above DIN

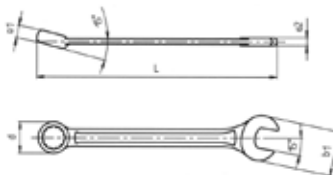


High-quality material




- 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	120	18.0	13.2			713.30108		
9	130	20.0	14.6	7.0	4.5	713.30109		
10	140	22.5	16.1	7.5		713.30110		
11	150	25.0	17.4	8.0	5.0	713.30111		
12	160	27.0	18.9	8.5		713.30112		
13	170	29.0	20.4	9.0	5.5	713.30113		
14	180	31.0	21.6	9.5		713.30114		
15	190	33.5	22.9	10.0	6.0	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		713.30123		
24	280	53.0	36.9	14.5	9.0	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



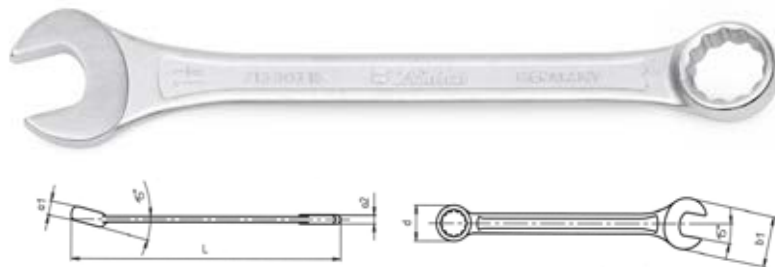
Art. No. 965.905401

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	1
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	1
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	1
7/8"	260	49	33.7	13.5		713.30311	
15/16"	280	53	36.9	14.5		713.30312	
1"	290	55	38.5	15	9	713.30313	
1-1/16"	310	59	40.8	15.5		713.30314	
1-1/8"	330	63.5	43.8	16.5	10	713.30315	
1-1/4"	350	69	47.8	17.5	11	713.30316	
1-5/16"	360	73	50.8	18	12	713.30317	

COMBINATION WRENCH SET, SHORT TYPE, IMPERIAL

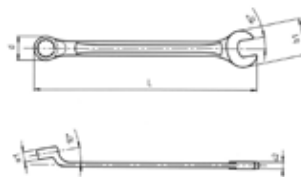


Short design, 8 pieces

- 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






POWERDRIV®

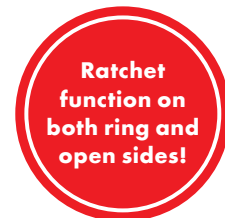
Innovative wrench with ratchet function on the ring and open sides

- 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.

 (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

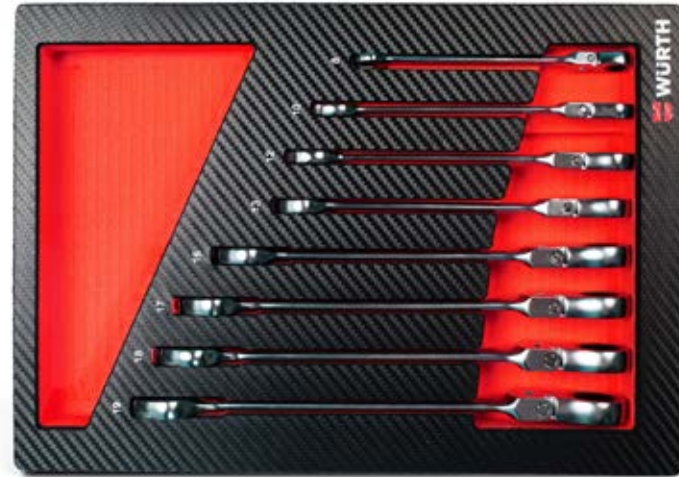
Art. No. 965.905406

Multi Ratchet Combi Wrench Set, 8 pcs System Assortment 4.4.1

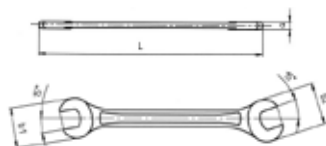
- Number of pieces in assortment/set - 8pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

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

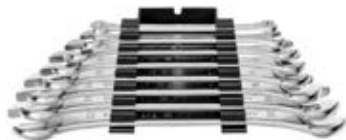
 (mm)	L (mm)	b1 (mm)	b2 (mm)	a (mm)	Art. No.	P. Qty
4x5	100	12	13	3.3	713.304045	1
5x5.5	112	13	14	3.5	713.304055	
6x7	125	14	16	3.7	713.304067	
8x9	138	18	20	3.9	713.304080	
8x10	146	18	22.5	4.5	713.304089	
10x11	158	22.5	25	5.0	713.304101	
10x13	168		29	5.5	713.304103	
12x13	175	27	29		713.304123	
13x17	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		713.304179	
18x19	225	40	42	7.5	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		713.304258	
27x29	295	59	63.5	10.0	713.304279	
30x32	310	65	69		713.304302	
30x34	325		73	11.0	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.





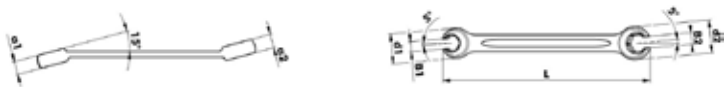
Metric

- 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

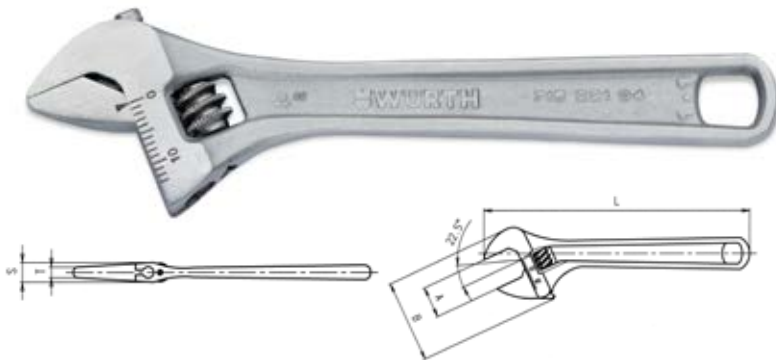
Set	 (mm)	Art. No.	P. Qty.
5 pcs.	7x9, 8x10, 11x13, 12x14, 17x19	714.24050	1


 (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						9		714.240124	
17 x 19	212	12	13	31.2	33.3	14	15	714.240179	

ADJUSTABLE WRENCH

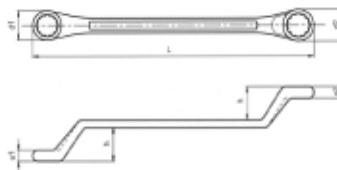
Design: Adjustable

- 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		713.305080	
10x11	194	7.4	7.9	16.3	17.4	23.5	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		713.305224	
24x26	328			37.0	39.0	34	713.305246	
24x27	329				41.0		713.305247	
25x28	339	13.8	14.8	37.8	42.0	37	713.305258	
37x29	342	14.8	15.8	41.0	44.3	36.3	713.305279	
30x32	359			45.0	48.2	39	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

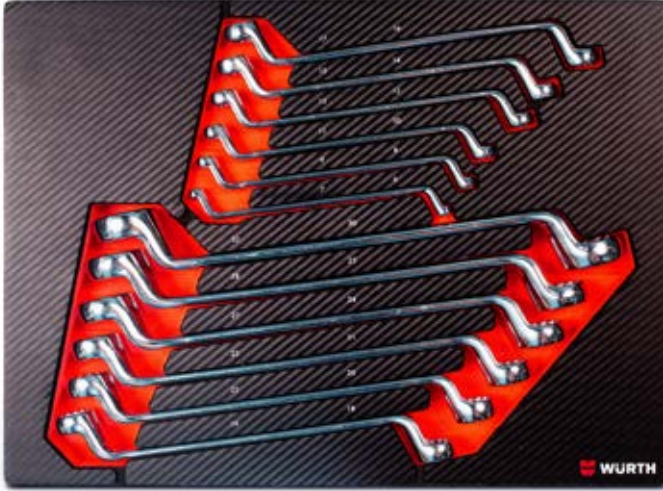
Set	 (mm)	Art. No.	P. Qty
10 pcs.	8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 30x32	713.30541	1



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	1
Double ring wrench deep offset 6X7	713.305067	
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

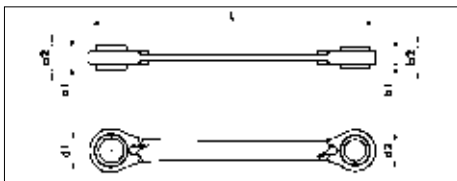
- Simply insert into size 10 mm ratchet spanner to use as a bit ratchet.

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

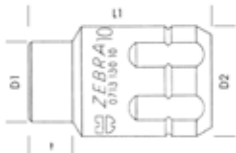
1/4" PASS-THROUGH RATCHET ADAPTER



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			713.13013	
14		18.9			713.13014	
15		20.1		11.5	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






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			614.175653	
Slot 8.0 mm			617.175656	
Allen head, size 4 mm			614.17694	
Allen head, size 5 mm			614.17695	
Allen head, size 6 mm			614.17696	
PH 1			614.176274	
PH 2			614.176461	
PH 3			614.17648	

Art. No. 714.23100 32 pcs.

Special tool assortment for use in tight spaces.



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	614.788406				
XNZ M 8	614.788408				
Allen head, size 7 mm	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.

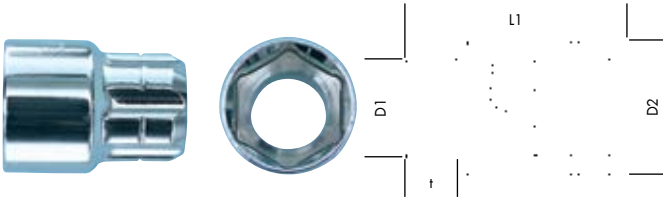
- Clockwise and counter-clockwise rotation can be switched with one hand.


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			17.7		713.13013	
14		8.5	18.9		713.13014	
15		9.5	20.1		713.13015	
16		11.5	21.2		713.13016	
17		12	22.4		713.13017	
18			23.6		713.13018	
19			24.8		713.13019	

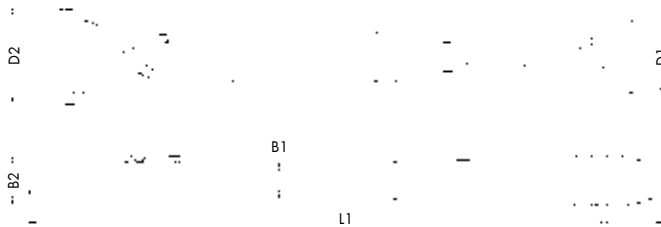
Art. No. 713.1300 14 pcs.

- 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

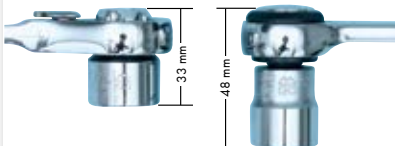
Designation	Length in mm	Art. No.	P. Qty.
Ratchet	205	713.13001	1
Extension	76	713.13002	
Adapter 1/4"	26	713.13003	
Adapter 3/8"	30	713.13004	
10 sockets, 10-19 mm	32	713.13010 - 713.13019	

Ratchet

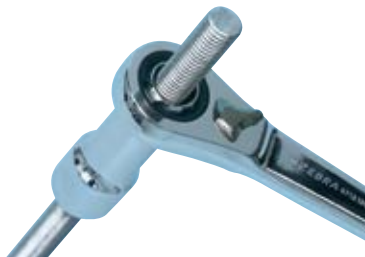
Head: 72 teeth, 5° rotating angle, round, compact head, one-hand operation with reversing lever for clockwise and counter-clockwise operation.
Model: chrome-plated, polished, very slim design.



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. 712.00014 12 pcs.

For 1/4" ratchet with lever

Art. No. 712.002 7 pcs.

For 1/2" ratchet with rotary disc

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

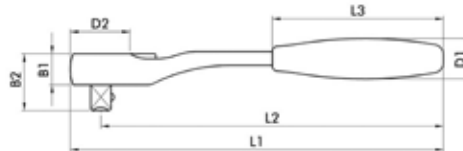


3 in 1!

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

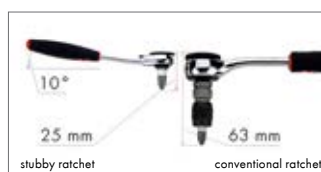
*Also available in 965.1123 assortment



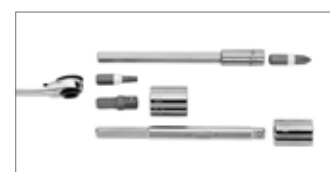
Knurled rotary disk
easier to use rotary switch



Reversing lever
simple reversing clockwise and counter clockwise switch

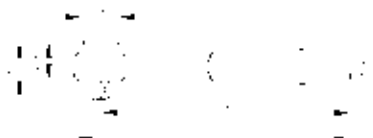


Height of bit ratchet
low overall height of bit ratchet compared to conventional ratchets.



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



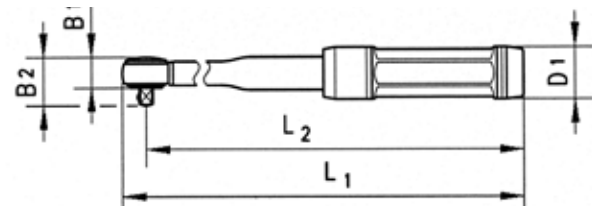
Maintenance Set:
715.13920 • 9 pcs.

TORQUE WRENCHES

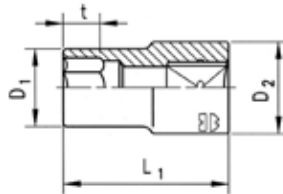
Torque wrenches are precision tools which must be checked at regular intervals with suitable measuring equipment and adjusted if necessary. We recommend an annual calibration.

- 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	
	60-300	45-220	570	550		45		714. 7124	








1/4" MULTI-SOCKET, METRIC/IMPERIAL

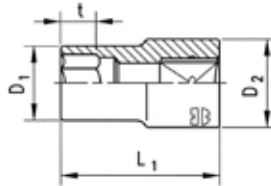


Bi-hexagon, Multi-profile for the five most common screw head drives

- 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									
	Hexagon/ bi-hexagon	Hexagon	TX Head	Square						
 (mm)	 (mm)	 (in.)	 TX	 (mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.
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		5.5	713.113055	
6	Size 6	-	E 8	Size 5		9.3		6	713.11306	
7	Size 7	9/32"	-	-		10.8			713.11307	
8	Size 8	5/16"	E 10	-		11.9	13.4	7	713.11308	
9	Size 9	11/32"	-	-		13.4			713.11309	
10	Size 10	3/8"	E 12	Size 8		14.5	14.5	10	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	11	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

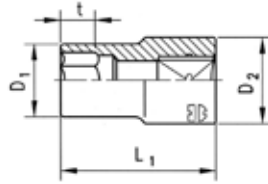


Bi-hexagon, Multi-profile for the five most common screw head drives

- Surface: chromium-plated, polished
- Drive: 3/8" square socket
- Tip: bi-hexagon, multi-profile

Multi-profile	Possible Uses									
	6-sd./12-sd.	6-sided	Outer TX	4-sided						
 (mm)	 (mm)	 (in.)	 TX	 (mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.
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		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		8.5	713.12312	
13	13 mm	1/2"	-	-	27	18.4	18		713.12313	
14	14 mm	9/16"	E18			19.6			713.12314	
15	15 mm	19/32"	-	12 mm		20.9	19	13	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	-	29	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	14	713.12320	
21	21 mm	13/16"	E26	17 mm		27.9	24.5		713.12321	
22	22 mm	7/8"	E28	18 mm	31	29.6	26	16	713.12322	

1/2" MULTI-SOCKET, METRIC/IMPERIAL



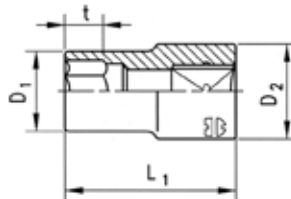
Bi-hexagon, Multi-profile for the five most common screw head drives

- 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									
	6-pt./12-pt.	6-pt.	Outer TX	4-pt.	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.
(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			712.13414	
15	15	19/32"	-	12		21.7			712.13415	
16	16	5/8"	E 20	13		23.0			712.13416	
17	17	-	-	14		24.2	23.2	14	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	38	28.0	25.5		712.13420	
21	21	13/16"	E 26	17		29.2	26.0	18	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	44	35.5	31.5		712.13426	
27	27	1 1/16"	E 34	22		36.7	32.2	20	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	24	712.13432	

1/4" SOCKET WRENCH INSERT, METRIC



Metric, short

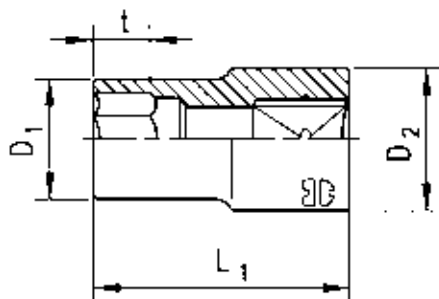
- Surface: Chrome-plated, polished
- Drive: 1/4" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**

(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			713.111106	
6.3		9.8			713.111163	
7		10.8			713.111107	
8		11.9	13.4	7	713.111108	
9		13.4		10	713.111109	
10		14.5	14.5		713.111110	
11		15.9	15.9		713.111111	
12		16.9	16.9		713.111112	
13		18	18	11	713.111113	
14		19.6	19.6		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



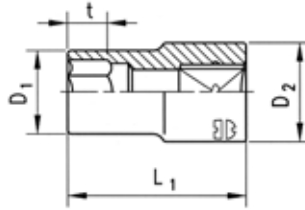
EMPTY FOAM INSERT

for 12pc 1/4 inch socket wrench assortment
AVAILABLE BY SPECIAL ORDER ONLY.
Art. No. 955.905052

3/8" HEXAGON SOCKETS, METRIC



POWERDRIV



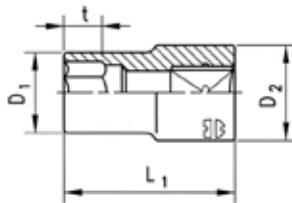
Features:

- Standard: DIN 3124, ISO 2725
- Finish: chrome-plated, polished/matte
- Input drive: 3/8", ball groove
- **POWERDRIV® Patent**
- Output drive: hexagon, metric
- Type: Short

⬢ (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		8	713.121107	
8		12.2		9	713.121108	
9		13.5		10	713.121109	
10		14.7		11	713.121110	
11	30	16	18	12	713.121111	
12		17.2		13	713.121112	
13		18.5		14	713.121113	
14		19.7		15	713.121114	
15		21		16	713.121115	
16	33	22.2	20	14	713.121116	
17		23.5	21		713.121117	
18		24.7	21.5		713.121118	
19		26	22.5		713.121119	
20		27.2	23.5		713.121120	
21		28.5	25		713.121121	
22		29.7	26	16	713.121122	

Accessory: Socket Holder 713.12101

3/8" SOCKET WRENCH INSERT, IMPERIAL

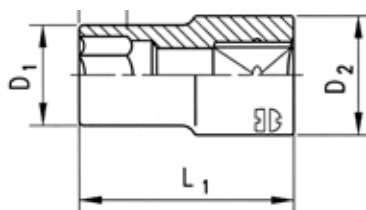


Inch, hexagon, short


- Design: Chrome-plated, polished/matt
- Drive: 3/8" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**


⬢ (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		8	713.121202	
5/16"		11.8		9	713.121203	
11/32"		13		10	713.121204	
3/8"		14.3		11	713.121205	
7/16"	27	16	18	12	713.121206	
1/2"		18.4		13	713.121207	
9/16"		20		14	713.121208	
19/32"		20.9		15	713.121209	
5/8"		22		16	713.121210	
11/16"	29	23.9	21	17	713.121211	
3/4"		25.6	22.5		713.121212	
25/32"		27.1	23.5		713.121213	
13/16"	31	27.9	24.5	18	713.121214	
7/8"		30	26		713.121215	

3/8" SOCKETS FOR OUTER TX SCREWS



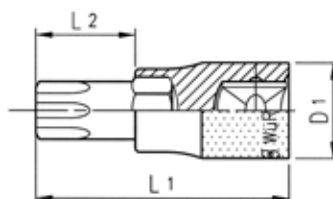
- Finish: chrome-plated, polished/matte
- Input drive: 3/8", ball groove
- Output drive: outer TX
- Type: short

	(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



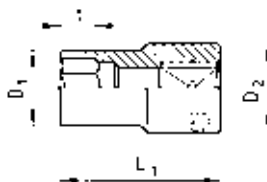
- Finish: chrome-plated, polished/matte
- Input drive: 3/8", ball groove
- Output drive: inner TX
- Type: short

	(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)	t (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	18.2		

	(mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (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



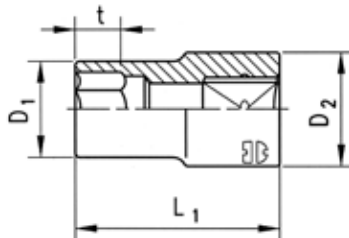
EMPTY FOAM INSERT

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

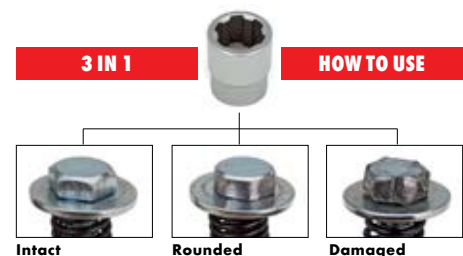
Short

Output side

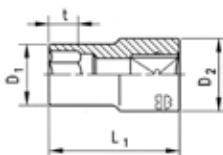
Hexagonal, multi-profile

 (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 head
- **POWERDRIV®**

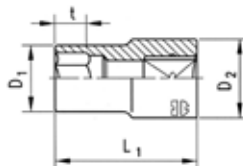
 (mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty
8	36	13	23	8	712.131108	1
9		14.2		9	712.131109	
10		15.5			712.131110	
11		16.7		10	712.131111	
12		18		11	712.131112	
13		19.2			712.131113	
14		20.5	13	712.131114		
15		21.7		22	712.131115	
16		23		23.2	712.131116	
17		24.2			712.131117	
18		25.5	23.5	14	712.131118	
19		26.7	24.7		712.131119	
20	28	25.5	712.131120			
21	38	29.2	26		712.131121	
22		30.5	26.5	16	712.131122	
23		31.7	27.7		712.131123	
24		33	29	18	712.131124	
25		34	30		712.131125	
26		35.5	31.5		712.131126	
27	44	36.7	32.2	20	712.131127	
28		38	33.5		712.131128	
30		40.5	36	22	712.131130	
32		43	38.1	24	712.131132	
34	47	45.5	40	25	712.131134	
36	50	48	42	28.5	712.131136	


1/2" SOCKET WRENCH INSERT, IMPERIAL



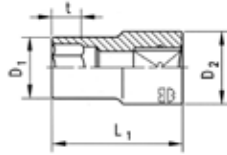
Inch, short

- 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		12.5	712.131202	
1/2"		19.1			712.131203	
9/16"		20.6		13.0	712.131204	
19/32"		21.0			712.131205	
5/8"		22.9			712.131206	
11/16"		24.6	24.7	712.131207		
3/4"		26.5		712.131208		
25/32"		27.9	25.5	712.131209		
13/16"		28.5		712.131210		
7/8"	41	29.9	26.5	22.5	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

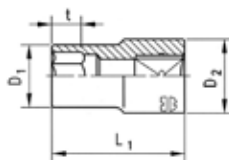


Metric, bi-hexagon, short

- 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			712.133111	
12		17.9			712.133112	
13		19.1		11	712.133113	
14		20.4			712.133114	
15		21			712.133115	
16		22.5			712.133116	
17		24	23.2		712.133117	
18		25.4	23.5	16	712.133118	
19		26.5	24.7		712.133119	
20		27.9	25.5		712.133120	
21	38	28.5	26	19	712.133121	
22		29.9	26.5		712.133122	
23		31.2	27.7		712.133123	
24		32	29		712.133124	
26		35	31.5		712.133126	
27	44	36	32.2	24	712.133127	
28		37.7	33.5		712.133128	
30		40	36		712.133130	
32		42	38.1		712.133132	
34	47	45.5	40	25	712.133134	
36	50	48	42	28.5	712.133136	


1/2" SOCKET WRENCH INSERT, METRIC



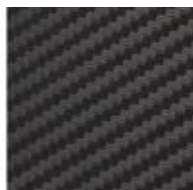
Metric, hexagon, long

- 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			712.132311	
12		17.9			712.132312	
13		19.1			712.132313	
14		20.4			712.132314	
15		21.6	21.6	35.5	712.132315	
16		22.6	22.6		712.132316	
17		24.1	24.1		712.132317	
18		25.4	25.4		712.132318	
19		26.5	26.5		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		712.132321	
22		29.7	29.7		712.132322	
23		31.2	27.0		712.132323	
24		31.7			712.132324	
26		35.4			712.132326	
27		35.7	33.0		712.132327	
28		37.6			712.132328	
30		39.8			712.132330 *NEW*	
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



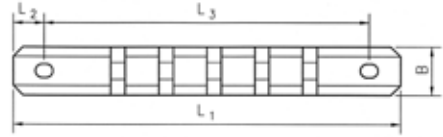
EMPTY FOAM INSERT

for 16pc 1/2 inch socket wrench assortment

AVAILABLE BY SPECIAL ORDER ONLY.

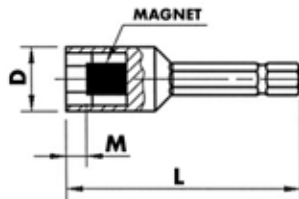
Art. No. 955.900210

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			614.176715	
3/8"	14		29	614.176716	
10				614.176717	
13	18		39	614.176718	

MAGNETIC NUTSETTERS

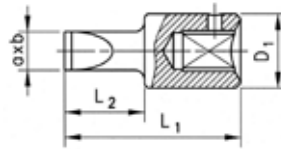


Features:

- 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	

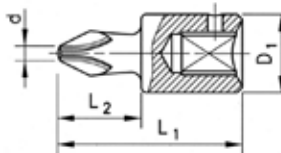
1/4" SOCKET WRENCH INSERT



Slotted


- Surface: Chrome-plated, polished/matt
- Drive: 1/4" square socket, ball catch groove
- Tip: DIN 5264, slotted

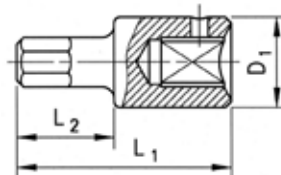
 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	Art. No.	P. Qty.
0.6 x 3.5	32	12	12	715.11735	1
1.0 x 5.5				715.11755	
1.2 x 6.5				715.11765	
1.2 x 8.0				715.11780	



PH


- Surface: Chrome-plated, polished/matt
- Drive: 1/4" square socket, ball catch groove
- Tip: ISO 8764-PH

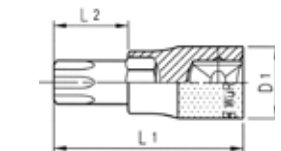
 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	Art. No.	P. Qty.
PH 1	32	12	12	715.11801	1
PH 2				715.11802	
PH 3				715.11803	



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	

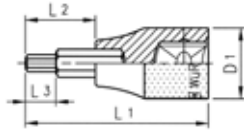


TX

- 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	10	32	12	715.11310	1
3.26	15			715.11315	
3.84	20			715.11320	
4.40	25			715.11325	
4.96	27			715.11327	
5.49	30			715.11330	
6.60	40			715.11340	

3/8" SOCKET WRENCH INSERT, METRIC

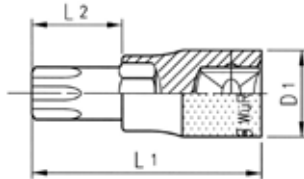


Metric, hexagon, short

- 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				10.5		715.12707	
8				-		715.12708	
9				13.5		715.12709	
10				-		715.12710	

1/2" SOCKET WRENCH INSERT, METRIC

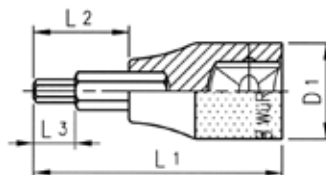


For TX screws, short

- 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	3.84	60	20	22.5	715.13320	1
25	4.4				715.13325	
27	4.96				715.13327	
30	5.49				715.13330	
40	6.6				715.13340	
45	7.77				715.13345	
50	8.79				715.13350	
55	11.17				715.13355	
60	13.2				715.13360	
70	15.49			25	715.13370	
80	17.51	80	42	28	715.13380	
100	22.1			26	715.133100	

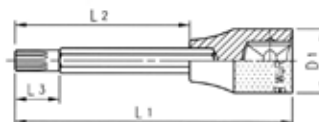
1/2" SOCKET WRENCH INSERT, METRIC



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	9		715.137062	
7	60	20	10.5		715.13707	
8			10.5		715.137080	
8	140	100	10.5		715.137082	
10	60	20	10.5		715.137100	
10	140	100	10.5		715.137102	
12	60	20	10.5		715.137120	
12	140	100	10.5		715.137122	
14	60	20	10.5	25	715.13714	
17			10.5	28	715.13717	

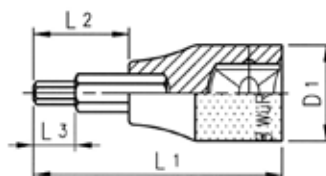


Triple square, short

- 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			5		715.13808	
8	100	60	5		715.138081	
10	60	20	5		715.13810	
10	100	60	5		715.138101	
12			5		715.138121	
14	60	20	5	25	715.13814	
16			5	28	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			9.53		715.13754	
1/2			9.53		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	140	100	-		715.13450	
55	11.17					715.13455	
60	13.2					715.13460	
70	15.49				25	715.13470	

1/2" TX SOCKET WRENCH ASSORTMENT

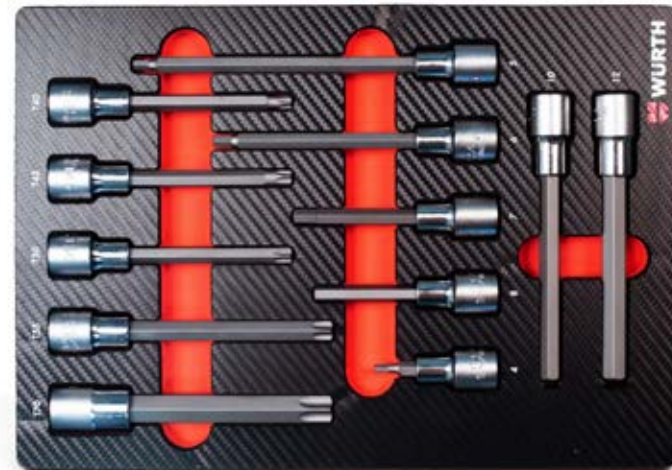
Art. No. 965.905207

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

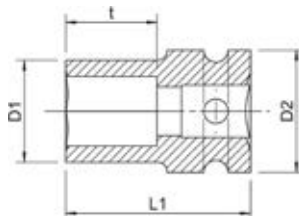
Contents	Art. No.	P. Qty.
1/2 inch impact socket wrench insert 10mm	714.13127	1
1/2 inch impact socket wrench insert 11mm	714.13128	
1/2 inch impact socket wrench insert 13mm	714.1313	
1/2 inch impact socket wrench insert 14mm	714.13130	
1/2 inch impact socket wrench insert 17mm	714.1314	
1/2 inch impact 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

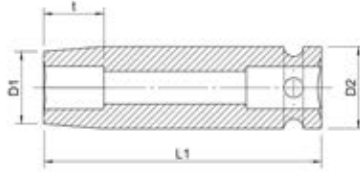


Short

- 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)	t (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	30	12	714.13071	
17		27.3		12.5	714.1308	
18		28.5		13.5	714.13081	
19		30		15	714.1309	
21		32		14	714.13091	
22		34		14.5	714.1310	
24		38		17	714.1311	
27	42	42		20	714.1312	
30		44		19	714.1330	
32	44	46		20	714.1332	
34		49		21.5	714.1334	
36	48			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	30	8	714.13131	
17	25			714.1314	
18	26		9	714.13142	
19	27			714.1315	
21	30		10	714.13151	
22	32			714.1316	
23	34		12	714.13161	
24				714.1317	
27	38		13	714.1318	
30	42		15	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

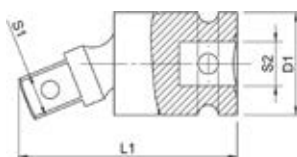
1/2" POWER CONNECTOR





- 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

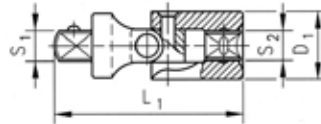
1/2" T-HANDLE





- 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



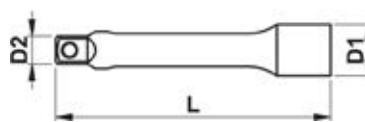
- Surface: Chrome-plated, polished
- Remains in specified position

 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°

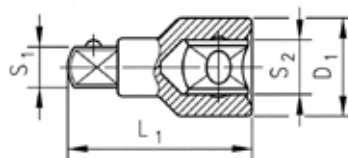
1/2" EXTENSIONS



- 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



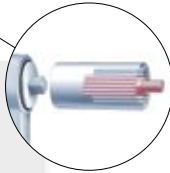
- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated, polished
- Material: Steel

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

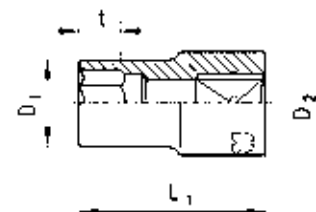


Art. No. 965.01434 34 pcs.

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!					
	6/12 sided/12		6 sided		Outside Torx	4-sided						
							L1	D1	D2	t	Art. No.	Qty.
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	-	-	6.8	-	-	5	713.11304	1
5	size 5	-	-	-	size 4	-	8.1	-	-	5.5	713.11305	
5.5	size 5.5	-	7/32"	-	size 4.5	-	8.7	11.9	-	6	713.113055	
6	size 6	-	-	E8	size 5	-	9.3	-	-	7	713.11306	
7	size 7	-	9/32"	-	-	-	10.8	-	-	10	713.11307	
8	size 8	#10, #12	5/16"	E10	-	-	11.9	-	-	11	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	10	-	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" 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	
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

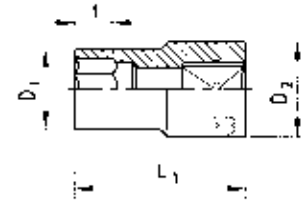
- Chrome plated; ball groove.







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!						
	6/12 sided/12		6 sided		Outside Torx							4-sided
							L1	D1	D2	t	Art. No.	Qty.
in mm	in mm		bolt sz	head sz	in TX	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		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	7	713.11309	
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		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	11	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:

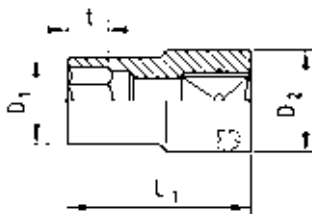
- **Hexagon** metric
- **Square** metric
- **Bi-hexagon** metric
- **Hexagon** imperial
- **TX** head

1/4" MINI MULTI-SOCKET ASSORTMENT – LEVER RATCHET

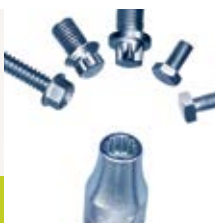


Powerful bit ratchet

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	bolt sz	head sz	in TX	in mm	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

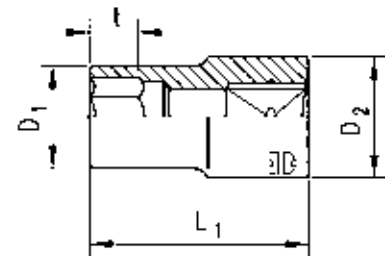
- Standard: DIN 3123, ISO 3316.
- Finish: chrome-plated.
- Input drive: 3/8", ball groove.
- Output drive: 3/8".
- Joint: spring-loaded, stays in set position.







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!					
	6/12 sided/12		6 sided		Outside Torx	4-sided						
							L1	D1	D2	t	Art. No.	Qty.
	in mm	in mm	bolt sz	head sz	in TX	in mm	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		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		8.5	713.12312	
13	13 mm	5/16"	1/2"	-	-	-		18.4			713.12313	
14	14 mm	3/8"	9/16"	E18	-	-	27	19.6	18	13	713.12314	1
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	14	713.12319	
20	20 mm	-	25/32"	-	16 mm	-	29	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

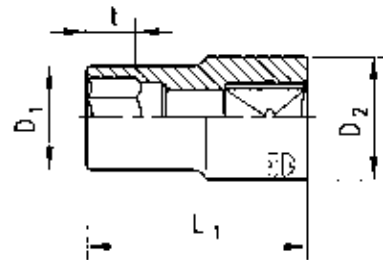
- Standard: DIN 3123, ISO 3316.
- Finish: chrome-plated.
- Input drive: 1/2", ball groove.
- Output drive: 1/2".
- Joint: spring-loaded, stays in set position.







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!					
	6/12 sided/12		6 sided		Outside Torx	4-sided						
							L1	D1	D2	t	Art. No.	Qty.
in mm	in mm		bolt sz	head sz	in TX	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			712.13413	
14	14		3/8"	9/16"	E18	-		20.5		13	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	14	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	38	30.5	26.5		16	
24	24		5/8"	15/16"	E30	19 mm		33	29	18	712.13424	
26	26		-	-	E32	21 mm		35.5	31.5		712.13426	
27	27		-	1-1/16"	E34	22 mm	44	36.7	32.2	20	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	22	712.13530	
32	32		-	-	E40	26 mm			43	38.1	24	

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.



TX



TX with hole



Outer TX



TX IP



TX IPR



TX Plus

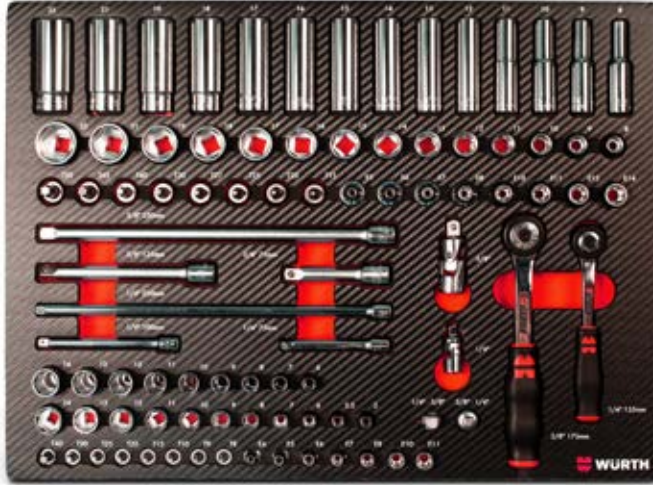
Contents	Art. No.	P. Qty.
1/4" TX6; 37mm	715.1135061	
1/4" TX8; 37mm	715.1135081	
1/4" TX10; 37mm	715.1135101	
1/4" TX15; 37mm	715.1135151	
1/4" TX20; 37mm	715.1135201	
1/4" TX25; 37mm	715.1135251	
1/4" TX27; 37mm	715.1135271	
1/4" TX30; 37mm	715.1135301	
1/2" TX40; 55mm	715.1316401	
1/2" TX45; 55mm	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	
1/4" 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	
1/4 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	071511140	
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

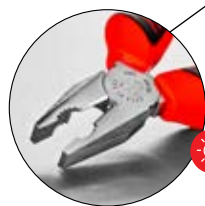


Description	Art. No.
Combination spanner, 11 pieces: 8, 9, 10, 11, 12, 13, 14, 16, 17, 19, 22 mm	713.30108 to 713.30122
Combination pliers 180 mm	715.01575
Hammer, 400 g	715.73140
Water Pump Pliers, 250 mm	714.0271
Voltage tester 3.0 mm, 150 - 250 Volt	715.5305
1/4" Ratchet 135 mm	712.0140
1/4" Cardan 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	

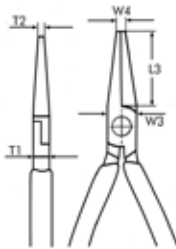


PVC double dipped

- 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









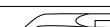
Length (in.)	Length (mm)	Medium-hard wire 	Hard wire 	Art. No.	P. Qty.
7"	180	2.8 mm diameter	2.5 mm diameter	715.01575	1

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

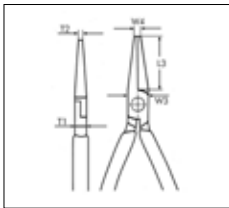
Optimum corrosion protection



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	1
Power side cutters DIN ISO 5749 160mm	714.01552	
ZEBRA combination pliers DIN ISO 5746 L180MM	714.01555	
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.

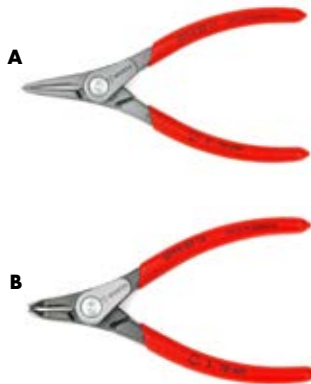
PVC double dipped, set of needle nose pliers, side cutter pliers, combination pliers, insulation stripping pliers, cutting pliers

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

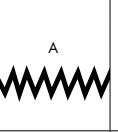

- Rings mounted without torsion.

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	 A Straight	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	 B 90°	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

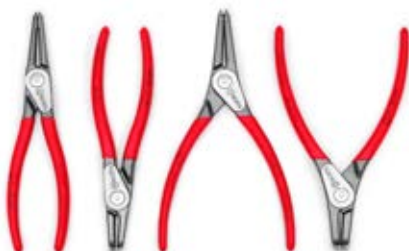
- Rings mounted without torsion.

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	 C Straight	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	 D 90°	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



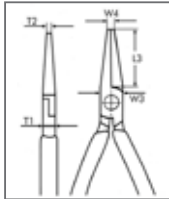
Form A

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

1000 V



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

1000 V



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

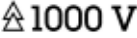


Art. No. 714.01580 4 pcs.

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

 1000 V



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	

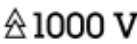


Art. No. 714.01581 4 pcs.

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

 1000 V



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 (mm²) 	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

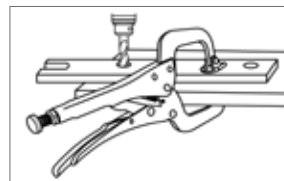
CLAMPING GRIP PLIERS WITH PARALLEL C-SHAPE



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

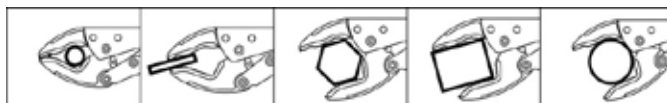


Length (mm)	Clamping width (mm)	Art. No.	P. Qty.
135	0-30	715.0906	1
190	0-42	715.0907	
235	0-63	715.0908	

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)	⌀ (in.)	⌀ (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

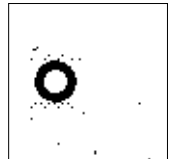
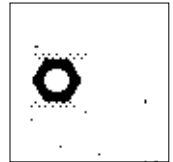
- Fixed with captive adjusting nuts

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

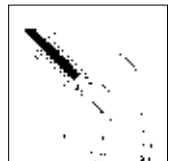
- Fixed with captive adjusting nuts

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



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

Min./Max. Cutting Capacity	Art. No.	P. Qty.
3-35 mm	714.551236	1
Replacement Blade For Pipe Cutters	714.551910	10



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



Works in **any direction!**

- 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

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	
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	—	647.853380	



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 647.853350	—	647.850002	

***Available through special orders only**

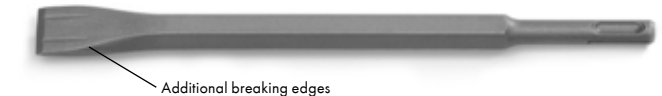
PREMIUM POINT AND FLAT CHISELS



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

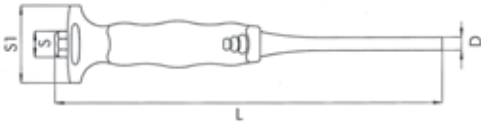


Tempered impact head

- DIN 7250

Length (mm)	α (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

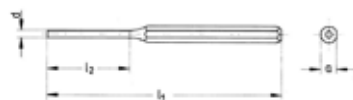
Full length of shaft hardened

- 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		714.6329	
			6	70	714.6330	
		12	8	80	714.6331	
			10	115	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

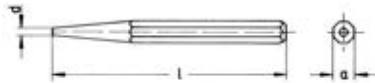
According to DIN 6450, Type C

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		714.6339	
			6	70	714.6330	
	12	8	80	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



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.

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.



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

Benefits:

- Metric and imperial
- Belt clip
- Conforms to EU accuracy Class II
- 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



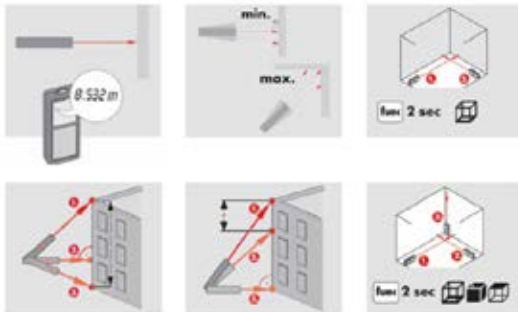
High-Precision Laser Distance Measuring Unit

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

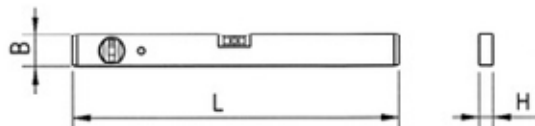
Features:

- 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



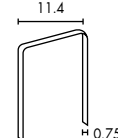
Art. No. 714.854

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	

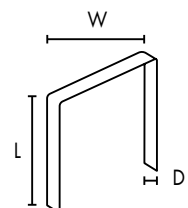
Magazine Capacity	Approx. 156 staples
Staple Length	6 (1/4") to 10 mm (3/8")
Staples	Art. No. 480.153...
Weight	310 g

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

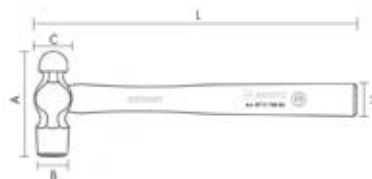


Features:

- 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.

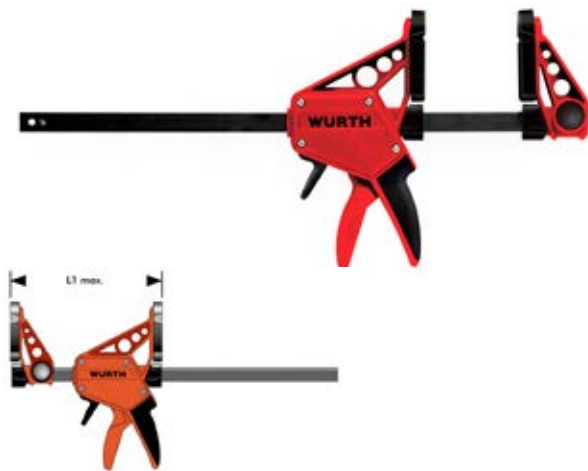
Features & Benefits:

- 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

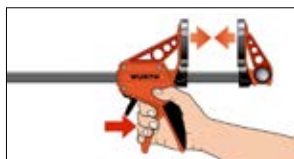
- Easy conversion with quick, push-button adjustment

Fixed and sliding bars made of fibreglass-reinforced plastic

- Highly robust for a long service life

Spacer function for increased convenience

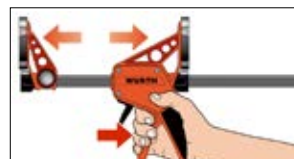
- Clamp can be used on a table



"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



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.

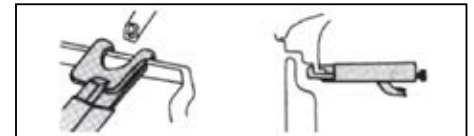
BODY VICE-GRIP PLIERS



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

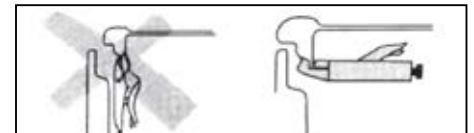
- For spot welding between openings.
- For use on door openings, side panels and folded metal sheets.



Clamping width	Jaw width	Length	Art. No.	Qty.
0 mm to 18 mm	18 mm	195 mm	713.09302	1

“L” Model

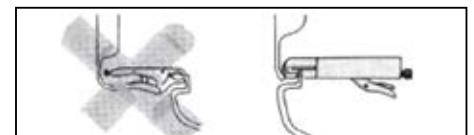
- Especially suitable for work on curves thanks to the slim shape.
- For use on door openings, lower center rear-end parts, wheel arches and problem areas.



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

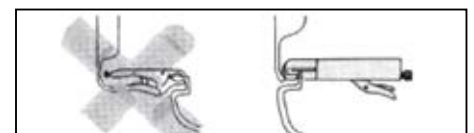
- For working on U-profiles and welds infolds.
- For use on center rear-end parts, rear side panels and U-shaped body profiles.



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)

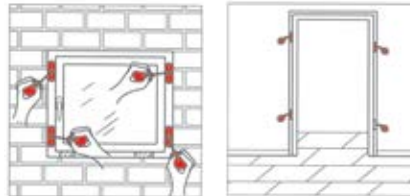


- Easy to inflate/release system by small pump and release valve
- Prevents costly locksmith charges
- Use for prying objects apart (windshields, headlights, etc.)
- Allows one person to complete a job that normally requires two persons
- Avoid scratches on the surfaces
- Handy, strong and durable
- Reusable

Automotive applications:

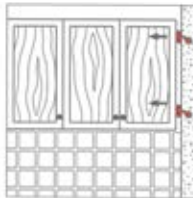
- Opening of car or truck doors (i.e. if you accidentally forget the keys inside)
- Removing of windshield or sealed windows on cars, trucks, caravans, boats, etc.
- Substitution of headlights, bumpers, etc.

General applications:



Installation of windows and doors

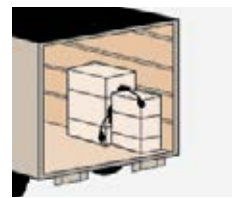
Note: The air wedge is not puncture resistant!



Positioning cabinets



Lifting doors



Protection of shipments



PREMIUM HAND HELD RIVETER



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

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

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



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**



Additional tools:

Nose piece for 1/4" 'Peel Type' rivets, **Art. No. 949.1311853**



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



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

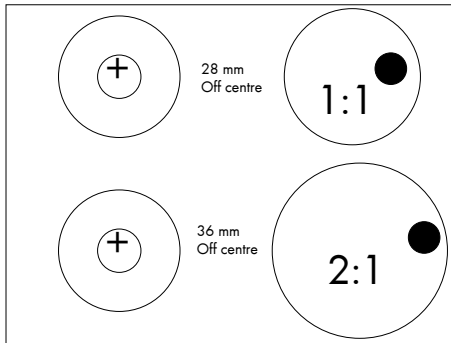


MAIN BODY FOR RIVETNUT GUN

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	8
O-rings	2
Bearings	6
Blades	
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.

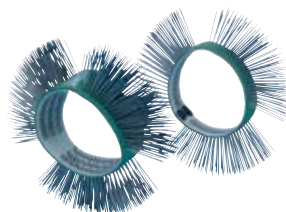


Coarse Brush

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.

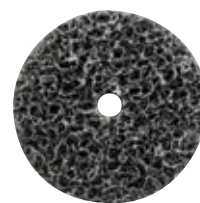


Fine Brush

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 discolouration, 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

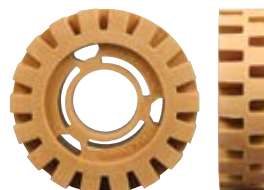
For use with: Art. No. 703.3501, 703.3503, 585.96, 585.91



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 "X18"



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



REPLACEMENT BLADES
Prefix. 696.



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.

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



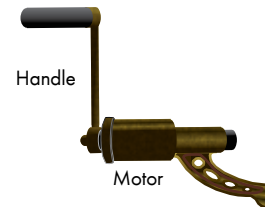
Blow Molded Case



Sockets

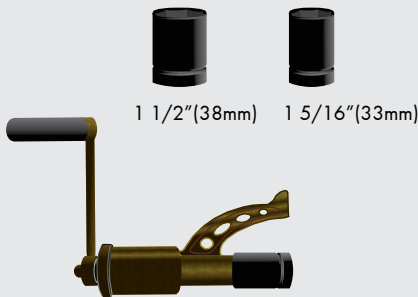


1:1 Connection Rod

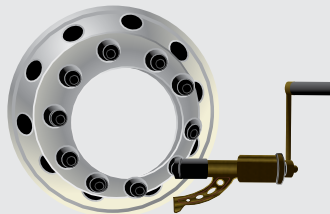


Main Body

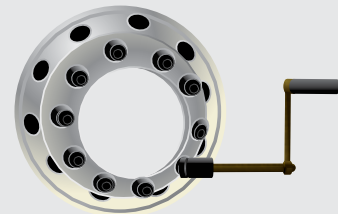
Instructions



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

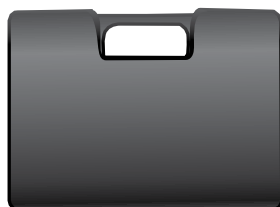


Art. No. 714.15001

- 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 11/16" (17mm), 3/4" (19mm) and 13/16" (21mm)
- 1/2" drive

Size (in)	Size (mm)	Drive
11/16"	17 mm	1/2"
3/4"	19 mm	
13/16"	21 mm	

Contents



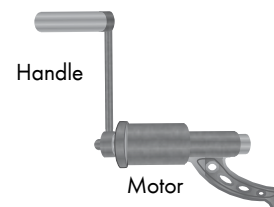
Blow Molded Case



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—indefinitely 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



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	
Wurth exclusive die set (21 pieces)*		
SPR starter kit (300 pieces)		
Heavy duty carrying case		

* Contents of the Wurth 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 PUSHPULL RIVETER ACCESSORIES

WURTH 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 Wurth 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		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	920.E1	1
E2 Die	E1			Extraction Receiver		Audi, BMW, Jaguar Land Rover	920.E2	
F1 Die	F2	6	Flow-form	Holding		Mercedes	920.F1	
F2 Die	F1			Forming	920.F2			
T7 Die	T5	8		Hole Punch Receiver	4.7 - 5.8		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

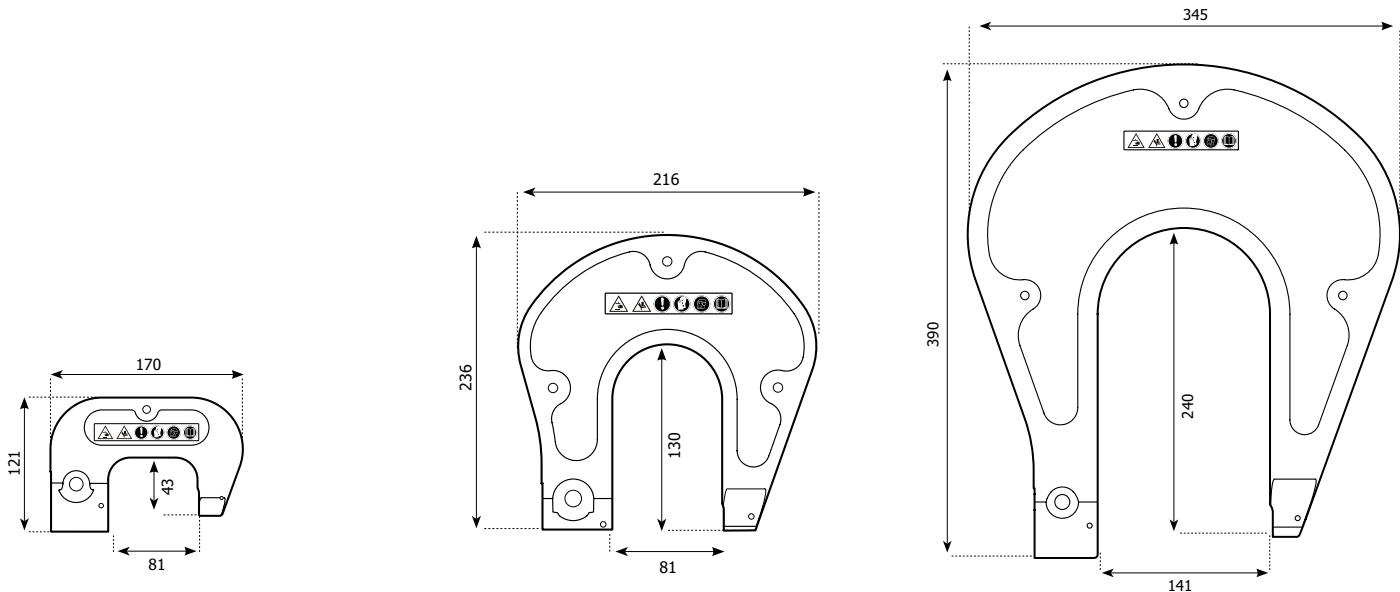
High strength forged steel arms provide a total repair solution.
Sizes and styles designed to suit all bodywork profiles.



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	4	920.HR2	
HR3 Arm - SpeedPress 8T	390		345		240	9	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			4.7-5.8	920.B1	
D1 Die	D2	3.3		Extraction	3-8	920.D1	
D2 Die	D1,D3, S1			Extraction Receiver		920.D2	
D3 Die	D2,D5			Extraction		920.D3	
D4 Die	D5	All				920.D4	
D5 Die	D3,D4, S4,S5,D12	5.3	Extraction/Punch Receiver		920.D5		
D6 Die	D7	All	Blind	Extraction	5.3-8	920.D6	
D7 Die	D6			Extraction Receiver		920.D7	
D8 Die	D8,D9	4	Solid	Dolly & Straightener	3-8	920.D8	2
D9 Die	D8			Forming		920.D9	
D10 Die	D11			Punch and Forming	5.3-8	920.D10	1
D11 Die	D10					920.D11	
D12 Die	D5	8	Spot Weld	Punch Out		920.D12	1
D13 Die	E2	6	SPR	Extraction	3-8	920.D13	
D15 Die	D16		Solid	Punch and Forming	5.3-8	920.D15	
D16 Die	D15					920.D16	
D17 Die	D17		All	N/A	Straightener Dolly		920.D17
E2 Die	E1,D13	3.3	SPR	Extraction Receiver	3-8	920.E2	1
S1 Die	D2			Extraction		920.S1	
S3 Die	A1	3.5		Forming	3-5.2	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

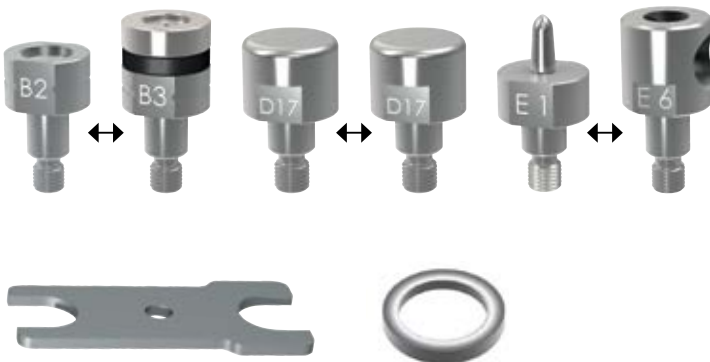
Contents: 12 pieces

**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

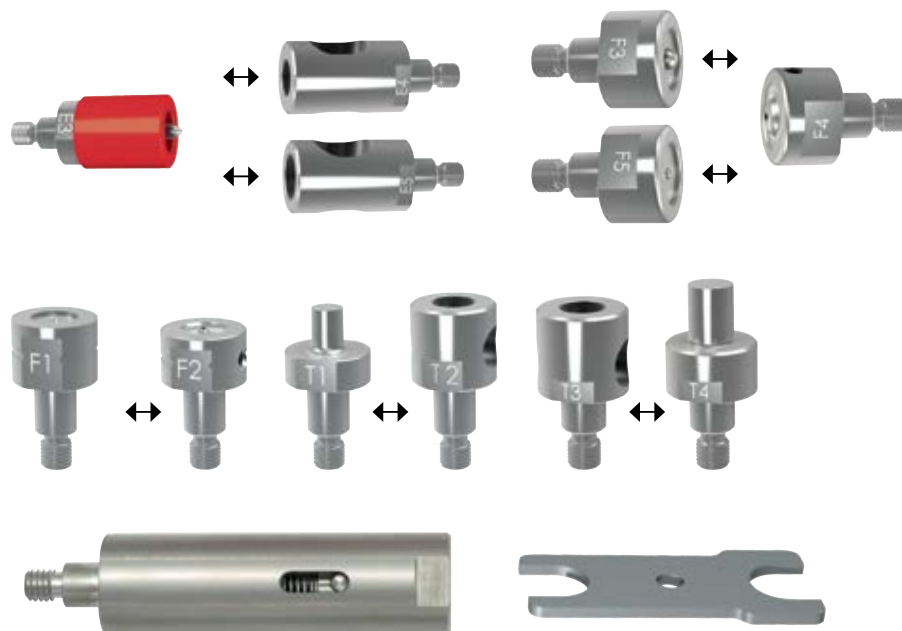
**Install and extract with factory precision.
High strength steel and rugged design
provide a solution
built to last.**

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	1		
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				920.E5	
F1 Die	F2	6		Holding		920.F1	
F2 Die	F1			Forming		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					920.T2	
T3 Die	T4	8		Hole Punch Receiver	4.7-5.8	920.T3	
T4 Die	T3			Hole Punch		920.T4	
HR3 arm extension						920.HR3EX	
Assembly keys							

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



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.

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.

ANGLE GRINDER



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

Note: Does not have an automatic electronic clutch.

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

Description	Size	Art. No.	P. Qty
Angle Grinder	4.5"	008.1375	1

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.

Features:

- Easier to open, thanks to non-slip grip
- Ergonomic, robust pump spray atomizer with long handle
- Individually markable label

- 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

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