

Hand Tools



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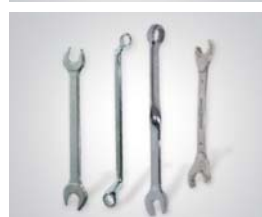
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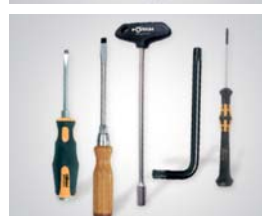
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Socket Wrench Insert Set 1/4" Triple+ 16-Part

- 4 in 1 the clever box nut
- Suitable for **hexagon, double hexagon, inch** and **E-TX** screw heads
- Empty case 4415 14 16 1 with VAROsoft tool deposit 9026 81

Article No.	Article Description	QTY
4431 14	VS-SOCK.WR.SET 1/4"TRI.+ 16PA.	1

Included in set:

- 1/4" lever switch ratchet 110 mm 4401 14 4
- 1/4" cross slide handle 115 mm 4402 14
- 1/4" articulated piece 33 mm 4407 14
- 1/4" extension square 50 mm 4418 50
- 1/4" extension square 150 mm 4418 150
- 1/4" triple + socket wrench-insert bit 25 mm AGR 4431 SW 4/4,5/5,5/6/7/8/10/11/12/13



Socket Wrench Insert Set 1/4" Triple+ 47-Part

- In plastic case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 71
- 4 in 1 the clever box nut
- Suitable for **hexagon, double hexagon, inch** and **E-TX** screw heads

Article No.	Article Description	QTY
4431 14 1	VS-SOCK.WR.SET 1/4"TRI.+ 47PA.	1

Contents:

- 1x Art. No. 4401 14 4 Fine tooth ratchet 1/4"
- 1x Art. No. 4403 14 1 Twist handle
- 1x Art. No. 4402 14 T-handle
- 1x Art. No. 4418 50 Square extension 50 mm
- 1x Art. No. 4418 125 Square extension 125 mm
- 1x Art. No. 4417 14 150 Square extension flexible 150 mm
- 1x Art. No. 4361 14 64 Plug adapter 1/4" hexagon x 1/4" square
- 1x AGR 4431 Socket wrench inserts short 25 mm SW 4/4.5/5.5/6/7/8/9/10/11/12/13
- 1x AGR 4431 Socket wrench inserts long 50 mm SW 6/7/8/10/11/12/13
- 1x AGR 4450 Bit socket wrench insert hexagon SW 3/4/5/6/7/8
- 1x AGR 4470 Bit socket wrench insert cross slot PH 1/2/3
- 1x AGR 4471 Bit socket wrench insert slotted 4/5
- 1x AGR 4455 Bit socket wrench insert TX 10/15/20/25/27/30/40
- 1x AGR 4462 Bit socket wrench insert multiple tooth XZN M5/M6/M8



Socket Wrench Insert 1/4" Triple+



Article No.	Article Description	QTY
4431 14 4	1/4"TRI+SOCK.WR.INS.SW4 25MM	1
4431 14 4 5	1/4"TRI+SOCK.WR.INS.SW4,5 25MM	1
4431 14 5	1/4"TRI+SOCK.WR.INS.SW5 25MM	1
4431 14 5 5	1/4"TRI+SOCK.WR.INS.SW5,5 25MM	1
4431 14 6	1/4"TRI+SOCK.WR.INS.SW6 25MM	1
4431 14 7	1/4"TRI+SOCK.WR.INS.SW7 25MM	1
4431 14 8	1/4"TRI+SOCK.WR.INS.SW8 25MM	1
4431 14 9	1/4"TRI+SOCK.WR.INS.SW9 25MM	1
4431 14 10	1/4"TRI+SOCK.WR.INS.SW10 25MM	1
4431 14 11	1/4"TRI+SOCK.WR.INS.SW11 25MM	1

Article No.	Article Description	QTY
4431 14 12	1/4"TRI+SOCK.WR.INS.SW12 25MM	1
4431 14 13	1/4"TRI+SOCK.WR.INS.SW13 25MM	1
4431 14 6 1	1/4"TRI+SOCK.WR.INS.SW6 50MM	1
4431 14 7 1	1/4"TRI+SOCK.WR.INS.SW7 50MM	1
4431 14 8 1	1/4"TRI+SOCK.WR.INS.SW8 50MM	1
4431 14 10 1	1/4"TRI+SOCK.WR.INS.SW10 50MM	1
4431 14 11 1	1/4"TRI+SOCK.WR.INS.SW11 50MM	1
4431 14 12 1	1/4"TRI+SOCK.WR.INS.SW12 50MM	1
4431 14 13 1	1/4"TRI+SOCK.WR.INS.SW13 50MM	1

Socket Wrench Insert Set 3/8" Triple+ 17-Part

- 4 in 1 the clever box nut
- Suitable for **hexagon, double hexagon, inch** and **E-TX** screw heads
- Empty case Art.-No. 4415 14 47 with VAROsoft tool deposit Art.-No. 9026 65

Article No.	Article Description	QTY
4431 38	VS-SOCK.WR.SET 3/8"TRI.+ 17PA.	1

Included in set:

- 3/8" lever switch ratchet 195 mm 4401 38 4
- 3/8" cross slide handle 200 mm 4402 38
- 3/8" articulation piece 55 mm 4407 38
- 3/8" angle extension 125 mm 4405 125
- 3/8" angle extension 250 mm 4405 250
- 3/8" triple+ socket wrench-insert AGR 4431 SW 8/9/10/11/12/13/14/15/16/17/18/19



Socket Wrench Insert 3/8" Triple+



Article No.	Article Description	QTY
4431 38 6	3/8"TRI+SOCK.WR.INS. SW6 27MM	1
4431 38 7	3/8"TRI+SOCK.WR.INS. SW7 27MM	1
4431 38 8	3/8"TRI+SOCK.WR.INS. SW8 27MM	1
4431 38 9	3/8"TRI+SOCK.WR.INS. SW9 27MM	1
4431 38 10	3/8"TRI+SOCK.WR.INS. SW10 27MM	1
4431 38 11	3/8"TRI+SOCK.WR.INS. SW11 27MM	1
4431 38 12	3/8"TRI+SOCK.WR.INS. SW12 30MM	1
4431 38 13	3/8"TRI+SOCK.WR.INS. SW13 30MM	1
4431 38 14	3/8"TRI+SOCK.WR.INS. SW14 30MM	1
4431 38 15	3/8"TRI+SOCK.WR.INS. SW15 30MM	1

Article No.	Article Description	QTY
4431 38 16	3/8"TRI+SOCK.WR.INS. SW16 30MM	1
4431 38 17	3/8"TRI+SOCK.WR.INS. SW17 30MM	1
4431 38 18	3/8"TRI+SOCK.WR.INS. SW18 30MM	1
4431 38 19	3/8"TRI+SOCK.WR.INS. SW19 30MM	1
4431 38 20	3/8"TRI+SOCK.WR.INS. SW20 30MM	1
4431 38 21	3/8"TRI+SOCK.WR.INS. SW21 32MM	1
4431 38 22	3/8"TRI+SOCK.WR.INS. SW22 32MM	1
4431 38 23	3/8"TRI+SOCK.WR.INS. SW23 32MM	1
4431 38 24	3/8"TRI+SOCK.WR.INS. SW24 32MM	1

Socket Wrench Insert Set 1/2" Triple+ 22-Part

- 4 in 1 the clever box nut
- Suitable for **hexagon, double hexagon, inch** and **E-TX** screw heads
- Empty case Art.-No. 4415 12 25 1 with VAROsoft tool deposit Art.-No. 9026 71

Article No.	Article Description	QTY
4431 12	VS-SOCK.WR.SET 1/2"TRI.+ 22PA	1

Included in set:

- 1/2" lever switch ratchet 250 mm 4401 12 4
- 1/2" cross slide handle 300 mm 4402 12
- 1/2" articulation piece 67 mm 4407 12
- 1/2" extension square 125 mm 4420 125
- 1/2" extension square 250 mm 4420 250
- 1/2" triple+ socket wrench-insert AGR 4431 SW 10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32



Socket Wrench Insert 1/2" Triple+



Article No.	Article Description	QTY
4431 12 10	1/2"TRI+SOCK.WR.INS.SW 10 38MM	1
4431 12 11	1/2"TRI+SOCK.WR.INS.SW 11 38MM	1
4431 12 12	1/2"TRI+SOCK.WR.INS.SW 12 38MM	1
4431 12 13	1/2"TRI+SOCK.WR.INS.SW 13 38MM	1
4431 12 14	1/2"TRI+SOCK.WR.INS.SW 14 38MM	1
4431 12 15	1/2"TRI+SOCK.WR.INS.SW 15 38MM	1
4431 12 16	1/2"TRI+SOCK.WR.INS.SW 16 38MM	1
4431 12 17	1/2"TRI+SOCK.WR.INS.SW 17 38MM	1
4431 12 18	1/2"TRI+SOCK.WR.INS.SW 18 38MM	1

Article No.	Article Description	QTY
4431 12 19	1/2"TRI+SOCK.WR.INS.SW 19 38MM	1
4431 12 20	1/2"TRI+SOCK.WR.INS.SW 20 38MM	1
4431 12 21	1/2"TRI+SOCK.WR.INS.SW 21 38MM	1
4431 12 22	1/2"TRI+SOCK.WR.INS.SW 22 38MM	1
4431 12 24	1/2"TRI+SOCK.WR.INS.SW 24 38MM	1
4431 12 27	1/2"TRI+SOCK.WR.INS.SW 27 38MM	1
4431 12 30	1/2"TRI+SOCK.WR.INS.SW 30 38MM	1
4431 12 32	1/2"TRI+SOCK.WR.INS.SW 32 38MM	1

Application Chart Triple+

SW	Hexagonal	Double-hexagonal	Inch	E-Tx
4	✓	✓	5/32"	E5
4,5	✓	✓		E6
5	✓	✓	3/16"	
5,5	✓	✓		
6	✓	✓		E8
7	✓	✓	9/32"	
8	✓	✓	5/16"	E10
9	✓	✓	11/32"	
10	✓	✓	3/8"	E12
11	✓	✓	7/16"	E14
12	✓	✓	15/32"	E16
13	✓	✓	1/2"	
14	✓	✓	9/16"	E18
15	✓	✓	19/32"	
16	✓	✓	5/8"	E20
17	✓	✓		
18	✓	✓		E22
19	✓	✓	3/4"	E24
20	✓	✓	20/32"	
21	✓	✓		
22	✓	✓	7/8"	
24	✓	✓	15/16"	
27	✓	✓	1 1/16"	
30	✓	✓	1 3/16"	
32	✓	✓	1 1/4"	

Socket Wrench Set 1/4" Flank Technique 47-Part

- Empty case Art. No. 4415 14 47 1 with VAROsoft tool deposit Art. No. 9026



Article No.	Article Description	QTY
4400 14 47	VS-1/4"SOCK.WR.SET-PR FT 47PA.	1

Included in set:

- Fine tooth ratchet 1/4" 4401 144
- Twist grip 4403 141
- Cross slide handle 4402 14
- Articulation piece 4407 14
- Square extension 50 mm 4418 50
- Square extension 125 mm 4418 125
- Square extension flexible 150 mm 4417 14 150
- Plug adapter 1/4" hexagon x 1/4" square 4361 14 64
- Socket wrench inserts short 25 mm AGR 4408 SW 4/5/5,5/6/7/8/9/10/11/12/13
- Socket wrench inserts long 50 mm AGR 4409 SW 6/7/8/10/11/12/13
- Bit-socket wrench insert-hexagon socket AGR 4450 3/4/5/6/7/8
- Bit-socket wrench insert-cross recessed PH1/2/3 AGR 4470
- Bit-socket wrench insert-slot 4/5 AGR 4471
- Bit-socket wrench insert-Torx with head access hole drilling AGR 4455 TX 10/15/20/25/27/30/40
- Bit-socket wrench insert-multiple tooth M5/M6/M8 AGR 4462



Socket Wrench Insert 1/4" Flank Technique

Article No.	Article Description	QTY
4408 4	1/4"FT-SOCK.WR.INS. SW 4 22MM	1
4408 5	1/4"FT-SOCK.WR.INS. SW 5 22MM	1
4408 55	1/4"FT-SOCK.WR.INS. SW5,5 22MM	1
4408 6	1/4"FT-SOCK.WR.INS. SW 6 22MM	1
4408 7	1/4"FT-SOCK.WR.INS. SW 7 22MM	1
4408 8	1/4"FT-SOCK.WR.INS. SW 8 22MM	1
4408 9	1/4"FT-SOCK.WR.INS. SW 9 22MM	1 z
4408 10	1/4"FT-SOCK.WR.INS. SW10 22MM	1
4408 11	1/4"FT-SOCK.WR.INS. SW11 22MM	1 z
4408 12	1/4"FT-SOCK.WR.INS. SW12 22MM	1 z
4408 13	1/4"FT-SOCK.WR.INS. SW13 22MM	1
4409 6	1/4"FT-SOCK.WR.INS. SW 6 50MM	1
4409 7	1/4"FT-SOCK.WR.INS. SW 7 50MM	1
4409 8	1/4"FT-SOCK.WR.INS. SW 8 50MM	1
4409 10	1/4"FT-SOCK.WR.INS. SW10 50MM	1
4409 11	1/4"FT-SOCK.WR.INS. SW11 50MM	1
4409 12	1/4"FT-SOCK.WR.INS. SW12 50MM	1
4409 13	1/4"FT-SOCK.WR.INS. SW13 50MM	1



Socket Wrench Ins.1/4" Flank Tech. Strip Connector

- 1/4" socket wrench inserts long,
- On strip connector

Article No.	Article Description	QTY
4495 4409	1/4"FÖRCH-SOCK.WRENCH STRIP LG	1

Included:

- SW 8/10/12/13



Socket Wrench Set 3/8" Flank Technique 17-Part

- Empty case Art. No. 4415 14 47 with VAROsoft tool desposit Art. No. 9026 65

Article No.	Article Description	QTY
4400 38 17	VS-3/8"SOCK.WR.SET-PR FT 17PA.	1

Included in set:

- Lever switch ratchet 3/8" 4401 38 4
- Articulation piece 4407 38
- Cross slide handle 4402 38
- Angle extension 125 mm 4405 125
- Angle extension 250 mm 4405 250
- Socket Wrench insert, flank technique AGR 4410 SW 8/9/10/11/12/13/14/15/16/17/18/19



Socket Wrench Insert 3/8" Flank Technique

Article No.	Article Description	QTY
4410 7	3/8" FT-FÖRCH SOCK.WR. SW 7	1
4410 8	3/8" FT-FÖRCH SOCK.WR. SW 8	1
4410 10	3/8" FT-FÖRCH SOCK.WR. SW 10	1
4410 11	3/8" FT-FÖRCH SOCK.WR. SW 11	1 f
4410 12	3/8" FT-FÖRCH SOCK.WR. SW 12	1
4410 13	3/8" FT-FÖRCH SOCK.WR. SW 13	1
4410 14	3/8" FT-FÖRCH SOCK.WR. SW 14	1
4410 15	3/8" FT-FÖRCH SOCK.WR. SW 15	1
4410 16	3/8" FT-FÖRCH SOCK.WR. SW 16	1
4410 17	3/8" FT-FÖRCH SOCK.WR. SW 17	1
4410 18	3/8" FT-FÖRCH SOCK.WR. SW 18	1 f
4410 19	3/8" FT-FÖRCH SOCK.WR. SW 19	1 b
4410 21	3/8" FT-FÖRCH SOCK.WR. SW 21	1 z
4410 22	3/8" FT-FÖRCH SOCK.WR. SW 22	1 b
4411 10	3/8" FT-FÖRCH SOCK.WR.LG SW 10	1
4411 12	3/8" FT-FÖRCH SOCK.WR.LG SW 12	1 z
4411 13	3/8" FT-FÖRCH SOCK.WR.LG SW 13	1 z
4411 14	3/8" FT-FÖRCH SOCK.WR.LG SW 14	1 z
4411 17	3/8" FT-FÖRCH SOCK.WR.LG SW 17	1 z

Technical Data

Art. No.	Length in mm
4410 7	26
4410 8	26
4410 10	26
4410 11	26
4410 12	26
4410 13	26
4410 14	27
4410 15	28
4410 16	28
4410 17	29
4410 18	30
4410 19	30
4410 21	32
4410 22	32
4411 10	55
4411 12	55
4411 13	55
4411 14	55
4411 17	55



Socket Wrench Ins.3/8" Flank Techn. Strip Connect.

- 3/8" socket wrench insert long
- On strip connector

Article No..	Article Description	QTY
4495 4411	3/8" FT-FÖRCH SOCK.WR.STRIP LG	1

Included:

- SW 10/12/13/14/17



Socket Wrench Insert 1/2" Flank Tech. Strip Conn.

- 1/2" socket wrench inserts long,
- On strip connector

Article No.	Article Description	QTY
4495 4413	1/2" FÖRCH SOCK.WR.STRIP LG	1

Included:

- SW 12/13/14/17/19/22



Socket Wrench Set 1/2" Flank Technique 25-Part

- Empty case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 71

Article No.	Article Description	QTY
4400 12 25	VS-1/4"SOCK.WR.SET-PR FT 25PA.	1

Included in set:

- Lever switch ratchet 1/2" 4401 124
- Square extension 125 mm 4420 125
- Square extension 250 mm 4420 250
- Articulation piece 4407 12
- Cross slide handle 4402 12
- Socket wrench inserts AGR 4412
SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32/34



Socket Wrench Insert 1/2" Flank Technique

Article No.	Article Description	QTY
4412 8	1/2" FT-SOCK.WR.INS.SW 8 38MM	1 z
4412 9	1/2" FT-SOCK.WR.INS.SW 9 38MM	1
4412 10	1/2" FT-SOCK.WR.INS.SW10 38MM	1
4412 11	1/2" FT-SOCK.WR.INS.SW11 38MM	1
4412 12	1/2" FT-SOCK.WR.INS.SW12 38MM	1
4412 13	1/2" FT-SOCK.WR.INS.SW13 38MM	1
4412 14	1/2" FT-SOCK.WR.INS.SW14 38MM	1
4412 15	1/2" FT-SOCK.WR.INS.SW15 38MM	1
4412 16	1/2" FT-SOCK.WR.INS.SW16 38MM	1
4412 17	1/2" FT-SOCK.WR.INS.SW17 38MM	1
4412 18	1/2" FT-SOCK.WR.INS.SW18 38MM	1
4412 19	1/2" FT-SOCK.WR.INS.SW19 38MM	1
4412 20	1/2" FT-SOCK.WR.INS.SW20 38MM	1
4412 21	1/2" FT-SOCK.WR.INS.SW21 38MM	1
4412 22	1/2" FT-SOCK.WR.INS.SW22 38MM	1
4412 24	1/2" FT-SOCK.WR.INS.SW24 40MM	1
4412 27	1/2" FT-SOCK.WR.INS.SW27 42MM	1
4412 30	1/2" FT-SOCK.WR.INS.SW30 45MM	1
4412 32	1/2" FT-SOCK.WR.INS.SW32 45MM	1
4412 34	1/2" FT-SOCK.WR.INS.SW34 45MM	1
4413 10	1/2" FT-SOCK.WR.INS.SW10 76MM	1
4413 11	1/2" FT-SOCK.WR.INS.SW11 76MM	1
4413 12	1/2" FT-SOCK.WR.INS.SW12 76MM	1
4413 13	1/2" FT-SOCK.WR.INS.SW13 76MM	1
4413 14	1/2" FT-SOCK.WR.INS.SW14 76MM	1
4413 15	1/2" FT-SOCK.WR.INS.SW15 76MM	1
4413 16	1/2" FT-SOCK.WR.INS.SW16 76MM	1
4413 17	1/2" FT-SOCK.WR.INS.SW17 76MM	1
4413 18	1/2" FT-SOCK.WR.INS.SW18 76MM	1
4413 19	1/2" FT-SOCK.WR.INS.SW19 76MM	1
4413 21	1/2" FT-SOCK.WR.INS.SW21 76MM	1
4413 22	1/2" FT-SOCK.WR.INS.SW22 76MM	1
4413 24	1/2" FT-SOCK.WR.INS.SW24 76MM	1
4413 27	1/2" FT-SOCK.WR.INS.SW27 76MM	1
4413 30	1/2" FT-SOCK.WR.INS.SW30 76MM	1
4413 32	1/2" FT-SOCK.WR.INS.SW30 76MM	1



Socket Wrench Insert Set 1/2" Flank Technique Long

Art. No. 4413V 007:

- In VAROsoft tool deposit Art. No. 9026 621

Art. No. 4413V 010:

- In VAROsoft tool deposit Art. No. 9026 68



4413V 007



4413V 010

Article No.	Article Description	QTY
4413V 007	VS SOCK.WREN.SET 1/2"LONG 7-PA	1
4413V 010	VS-SOCK.WREN.SET 1/2"LONG 10PA	1

Art. No. 4413V 007:

- 1x AGR 4413 Socket wrench insert 1/2" SW 20/21/22/24/27/30/32

Art. No. 4413V 010:

- 1x AGR 4413 Socket wrench insert 1/2" SW 10/11/12/13/14/15/16/17/18/19

Socket Wrench Ins. Set 1/2" Flank Technique Short



Article No.	Article Description	QTY
4412V 010	VS-SOCKET WRENCH-SET FT1/2"	1

Included in set:

- Socket wrench insert 1/2"
- SW 10/11/12/13/14/15/16/17/18/19



Socket set 12-edge 1/2", 24-pce

- in plastic case art. no. 4415 12 25 1 with VAROsoft system art. no. 9026 71

Article No.	Article Description	QTY
4429 12 24	VS-1/2"SOCK.WR.SET BIHEX 24PCS	1

Each contains 1x:

- art. no. 4401 12 4 lever wrench 1/2"
- art. no. 4406 125 angle extension 125 mm
- art. no. 4406 250 angle extension, 250 mm
- art. no. 4407 12 joint, 67 mm
- art. no. 4402 12 cross-sliding handle, 300 mm
- AGR 4429 1/2" 12-edge socket inserts SW 8/9/10/11/12/13/14/15/16/17/18/19/21/22/24/27/30/32/36



VS HUS ratchet set with universal joints

- in VAROsoft system insert, Art.-No. 9026 648
- with tool stop and switch lever
- 72 teeth
- Extra-slim head

Article No.	Article Description	QTY
4415V 006	VS HUS RATCH.SET W.UNIV.JOINT	1

Contains 1 each of:

- Art.-No. 4401 14 7: 1/4" HUS super-slim ratchet, length 140 mm
- Art.-No. 4401 38 7: 3/8" HUS super-slim ratchet, length 195 mm
- Art.-No. 4401 12 7: 1/2" HUS super-slim ratchet, length 245 mm
- Art.-No. 4407 14 50: 1/4" universal joint FÖRCH 5*, length 35 mm
- Art.-No. 4407 38 50: 3/8" universal joint FÖRCH 5*, length 50 mm
- Art.-No. 4407 12 50: 1/2" universal joint FÖRCH 5*, length 69 mm



Socket Wrench Set 1/4", 33-Piece FÖRCH*****

- In plastic case Art. No. 4415 14 47 1
- With VAROsoft tool deposit Art. No. 9026 632



Article No.	Article Description	QTY
4415 14 33	1/4" SOCK.WRENCH SET 5* 33-PCS	1

Contents:

- 1x Art. No. 4401 14 20 50 1/4 " lever switch ratchet 20 teeth 5*
- 1x Art. No. 4418 75 50 1/4" extension square 5*, 75 mm
- 1x Art. No. 4418 150 50 1/4" extension square 5*, 150 mm
- 1x Art. No. 4407 14 50 1/4" articulation piece 5*, 35 mm
- 1x AGR 4471...50 1/4" LS socket wrench insert 5* 3.5/5.5
- 1x AGR 4470...50 1/4" PH socket wrench insert 5* 1/2
- 1x AGR 4455...50 1/4" TX socket wrench inserts 5* 8/9/10/15/20/25/27/30/40
- 1x AGR 4450...50 1/4" Hex socket wrench inserts 5* 3/4/5/6/8
- 1x AGR 4425...50 1/4" Hex socket wrench inserts 5*, 23 mm, SW 4/5/5.5/6/7/8/9/10/11/12/13



Socket set, hexagonal 1/4", 47-piece

- 47-piece set all-rounder set for daily use
- Drives: Hexagonal, Allen, PH, LS, TX and XZN (multi-toothed)
- In a plastic case Art.-No. 4415 14 47 1
- With VAROsoft system insert, Art.-No. 9026 63



Article No.	Article Description	QTY
4415 14 47	VS-SOCK.WR,SET 1/4"HEX 47 PART	1

Contains 1 each of:

- Art.-No. 4401 14 4: 1/4" Lever switch-over ratchet
- Art.-No. 4403 14 1: 1/4" Rotary handle, 150 mm
- Art.-No. 4402 14: 1/4" Cross-slide handle, 115 mm
- Art.-No. 4407 14: 1/4" Joint linkage, 39 mm
- Art.-No. 4418 50: 1/4" Square extension, 50 mm
- Art.-No. 4418 125: 1/4" Square extension, 125 mm
- Art.-No. 4417 14 150: 1/4" Square extension, flexible, 150 mm
- Art.-No. 4361 14 64: Socket adapter 1/4" hex. to 1/4" square
- AGR 4425: 1/4" Socket wrench inserts, short, 25 mm
Wrench sizes 4/5/5.5/6/7/8/9/10/11/12/13
- AGR 4425: 1/4" Socket wrench inserts, long, 50 mm
Wrench sizes 6/7/8/10/11/12/13
- AGR 4450: 1/4" Inner hex. socket wrench inserts
Wrench sizes 3/4/5/6/7/8
- AGR 4470: 1/4" Socket wrench insert bits, Phillips-head PH 1/2/3
- AGR 4471: 1/4" Socket wrench insert bits, slotted head screw 4/5
- AGR 4455: 1/4" Socket wrench insert bits
TX 10/15/20/25/27/30/40
- AGR 4462: 1/4" Socket wrench insert bits, multi-toothed XZN
M5/M6/M8

Your Advantage / Benefit

- Fine-toothed reversible ratchet wrench, with 72 teeth and tool lock
- With short and long hexagonal socket wrench inserts
- Incl. plug-in adapter 1/4" hexagonal to 1/4" square (cordless screwdriver)

Application



Related Products

- Duo-Grip fine-knit gloves
Art.-No. 5405 117 7 - 9



- Mini Ratchet Screwdriver 1/4"
Art.-No. 5350 3060



- Rust Remover Magic Ice S412
Art.-No. 6700 0080



Socket Set, Hex. 1/4", 46 Pcs. **ECO**

- Matt chrome-plated finish



Article No.	Article Description	QTY
4415N 14 46 2	1/4" SOCKET SET, HEX ECO 46PCE	1

Contains 1 each of:

- Art.-No. 4401N 14: 1/4" Lever switch-over ratchet, 72 teeth, 150 mm ECO
- Art.-No. 4403N 14: 1/4" Rotary handle, 115 mm ECO
- Art.-No. 4402N 14: 1/4" Cross-slide handle, 110 mm ECO
- Art.-No. 4407N 14: 1/4" articulated joint, 38 mm ECO
- AGR 4418N: 1/4" Square extension, 50 mm, 100 mm ECO
- Art.-No. 4417N 14 150: 1/4" Square extension, flexible, 150 mm ECO
- Art.-No. 4361N 14 64: 1/4" Hex. socket adapter x 1/4" square ECO
- AGR 4425N: 1/4" Socket wrench inserts, 25 mm ECO
SW 4 / 4,5 / 5 / 5,5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 mm
- AGR 4450N: 1/4" Internal hex. socket wrench insert bits, 37 mm ECO
SW 3 / 4 / 5 / 6 / 7 / 8
- AGR 4471N: 1/4" Socket wrench insert bits, slotted head, 37 mm ECO
LS 4 / 5,5 / 7
- AGR 4470N: 1/4" Socket wrench insert bits, Phillips head, 37 mm ECO
PH 1 / 2 / 3
- AGR 4472N: 1/4" Socket wrench insert bits, Phillips head, 37 mm ECO
PZ 1 / 2 / 3
- AGR 4455N: 1/4" Socket wrench insert bits TX, 37 mm ECO
TX 10 / 15 / 20 / 25 / 30 / 40
- Internal hex. Allen wrench set, 4-pcs.
SW 1.27 / 1.5 / 2 / 2.5



Socket Wrench Set 1/4" Hexagon 16-Piece

- In plastic case Art. No. 4415 14 16 1 with VAROsoft tool deposit Art. No. 9026 81



Article No.	Article Description	QTY
4415 14 16	VS SOCK.WR,SET 1/4"HEX 16-PART	1

Contents:

- 1x Art. No. 4401 14 36 1/4" lever switch ratchet 36 teeth
- 1x Art. No. 4402 14 1/4" T-handle, 115 mm
- 1x Art. No. 4407 14 1/4" articulation piece, 39 mm
- 1x Art. No. 4418 50 1/4" extension square, 50 mm
- 1x Art. No. 4418 150 1/4" extension square, 150 mm
- 1x AGR 4425 1/4" socket wrench inserts, 25 mm SW 4/5/5.5/6/7/8/9/10/11/12/13



Socket Wrench Set 3/8“, 19-Piece **FÖRCH*******

- In plastic case Art. No. 4415 14 47 1
- In VAROsoft tool deposit Art. No. 9026 633

Article No.	Article Description	QTY
4415 38 19	3/8"SOCK.WRENCH SET 5* 19-PCS.	1

Contents:

- 1x Art. No. 4401 38 30 50 3/8" lever switch ratchet 30 teeth 5*
- 1x Art. No. 4407 38 50 3/8" articulation piece 5*, 50 mm
- 1x Art. No. 4419 125 50 3/8" extension square 5*, 125 mm
- 1x Art. No. 4419 250 50 3/8" extension square 5*, 250mm
- 1x AGR 4426... 50 3/8" socket wrench inserts 5*, 29 mm SW 8/9/10/11/12/13/14/15/16/17/18/19/21/22/24



Switch Socket Wrench Set 3/8“, 29 pce. **FÖRCH*******

- In stale plastic case



Article No.	Article Description	QTY
4415 5 38 29	3/8"SW SOCKET WR SET 5* 29PCE	1

Contents - 1 of each:

- Art.-No. 4401 5 38 72 3/8" lever wrench 72 Z. 5*, 222 mm
- Art.-No. 4419 250 50 3/8" extension 4-sided 5*, 200mm
- Art.-No. 4419 38 32 3/8" tilt extension 4-sided, 32mm
- Art.-No. 4361 38 14 50 3/8" bit-adapter 5* for 1/4" bit
- Art.-No. 4426 ... 50 3/8" socket wrench inserts 5*, 29mm SW 8/10/12/13/15/16/17/18/19
- Art.-No. 4301 1/2/3 1/4" PH bit
- Art.-No. 4302 1/2 1/4" PZ bit
- Art.-No. 4303 10/15/20/25/27/30 1/4" TX bit
- Art.-No. 4305 3/4/5/6/8 1/4" Hex Plus bit



Push Socket Wrench Set 3/8“, 29pce. **FÖRCH*******

- In stable plastic case



Article No.	Article Description	QTY
4415 5 38 29 1	3/8" PUSH SOCKET WR S.5* 29PCE	1

Contents - 1 of each:

- Art.-No. 4401 5 38 76 1 3/8" push-through ratchet 72 Z. 5*, 222 mm
- Art.-No. 4419 250 50 3/8" extension 4-sided 5*, 200mm
- Art.-No. 4419 38 32 3/8" tilt extension 4-sided, 32mm
- Art.-No. 4361 38 14 50 3/8" bit-adapter 5* for 1/4" bit
- Art.-No. 4426 ... 50 3/8" hexagonal socket wrench inserts 5*, 29mm SW 8/10/12/13/15/16/17/18/19
- Art.-No. 4301 1/2/3 1/4" PH bit
- Art.-No. 4302 1/2 1/4" PZ bit
- Art.-No. 4303 10/15/20/25/27/30 1/4" TX bit
- Art.-No. 4305 3/4/5/6/8 1/4" Hex Plus bit



Socket Wrench Set: hexagonal 3/8", 29-pce **FÖRCH*******

- 180° pivotable head is lockable at 0°, 15° and 90°
- in stable, compact textile box
- Wera brand



Article No.	Article Description	QTY
4415 5 38 29 2	3/8"SOCKET WR SET 5* 29-PIECE	1

Contents each 1x:

- Art.-no. 4401 38 50 3/8" reversible ratchet 5*, 199 mm
- Art.-no. 4419 250 50 3/8" square extension 5*, 200 mm
- Art.-no. 4405 75 38 3/8" angle extension, 75 mm
- Art.-no. 4361 38 14 50 3/8" bit adapter 5* for 1/4" bit
- AGR 4426 ... 50 3/8" hexagonal socket wrench set5*, 29 mm
SW 8/10/12/13/15/16/17/18/19
- Art.-no. 4330 1/2/3 1/4" E6,3-PH-Torsions-Bits, 50 mm
- Art.-no. 4332 1/2/3 1/4" E6,3-PZ-Torsions-Bits, 50 mm
- Art.-no. 4327 55 1/4" Bit-Schlitz 50mm, 1,0 x 5,5
- Art.-no. 4334 1 20/25/27/30/40 E6,3-TX-Bits, 50 mm
- Art.-no. 4305 4/5/6/8 1/4" Hex Plus Bit



Hex Socket Wrench Set 3/8", 44-Piece



- In plastic case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 78

Article No.	Article Description	QTY
4415 38 44	VS-3/8"HEX SOCK.WR.SET 44-PCS	1

Contents:

- 1x Art. No. 4401 38 30 3/8" lever switch ratchet 30 teeth
- 1x Art. No. 4405 12 38 sliding head for 3/8" extension
- 1x Art. No. 4405 250 1 3/8" tipping extension, 250 mm
- 1x Art. No. 4405 75 3/8" tipping extension, 75 mm
- 1x Art. No. 4407 38 3/8" articulation piece, 50 mm
- 1x AGR 4426 3/8" hex socket inserts, SW
8/9/10/11/12/13/14/15/16/17/18/19/21/22/24
- 1x AGR 4441 3/8" socket wrench inserts TX external
E5/E6/E7/E8/E10/E11/E12/E14
- 1x AGR 4456 3/8" screwdriver inserts TX internal
T10/T15/T20/T25/T27/T30/T40/T45/T50/T55
- 1x AGR 4451 3/8" socket wrench inserts allen key, SW 3/4/5/6/7/8/10



Hex Socket Wrench Set 3/8", 17-Piece

- In plastic case Art. No. 4415 14 47 1 with VAROsoft tool deposit Art. No. 9026 65



Article No.	Article Description	QTY
4415 38 17	VS-3/8"HEX SOCK.WR.SET 17-PCS	1

Contents:

- 1x Art. No. 4401 38 30 3/8" lever switch ratchet 30 teeth
- 1x Art. No. 4402 38 3/8" T-handle, 200 mm
- 1x Art. No. 4407 38 3/8" articulation piece, 50 mm
- 1x AGR 4419 3/8" extension square, 125, 250 mm
- 1x AGR 4426 3/8" hex socket wrench inserts SW
8/9/10/11/12/13/14/15/16/17/18/19



Hex Socket Wrench Set 1/2", 21-Piece **FÖRCH*******

- In plastic case Art. No. 4415 12 25 1
- With VAROsoft tool deposit Art. No. 9026 729

Article No.	Article Description	QTY
4415 12 21 1	1/2" SOCK.WRENCH SET 21-PCS 5*	1

Contents:

- 1x Art. No. 4401 12 32 50 1/2" lever switch ratchet 32 teeth 5*
- 1x Art. No. 4407 12 50 1/2" articulation piece 5*, 69 mm
- 1x Art. No. 4420 125 50 1/2" extension square 5*, 125 mm
- 1x Art. No. 4420 250 50 1/2" extension square 5*, 250 mm
- 1x AGR 4427... 50 1/2" hex socket wrench inserts 5*, 37 mm
SW 10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32



Hand tools

- In plastic case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 71

Article No.	Article Description	QTY
4415 12 25	VS-1/2"HEX SOCK.WR.SET 25-PCS	1

Contents:

- 1x Art. No. 4401 12 36 1/2" lever switch ratchet 36 teeth
- 1x Art. No. 4420 125 1/2" extension square, 125 mm
- 1x Art. No. 4420 250 1/2" extension square, 250 mm
- 1x Art. No. 4407 12 1/2" articulation piece, 67 mm
- 1x Art. No. 4402 12 1/2" T-handle, 300 mm
- 1x AGR 4427 1/2" square socket wrench inserts SW
8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32/34



Hex Socket Wrench Set 1/2", 21-Piece

- In plastic case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 71

Article No.	Article Description	QTY
4415 12 21	VS-1/2"HEX SOCK.WR.SET 21-PCS	1

Contents:

- 1x Art. No. 4401 12 36 1/2" lever switch ratchet 36 teeth
- 1x Art. No. 4420 125 1/2" extension square, 125 mm
- 1x Art. No. 4420 250 1/2" extension square, 250 mm
- 1x Art. No. 4407 12 1/2" articulation piece, 67 mm
- 1x Art. No. 4402 12 1/2" T-handle, 600 mm
- 1x AGR 4427 1/2" hex socket wrench inserts SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24



Socket set, hex. 1/2", 20 pcs. **ECO**

- Matt chrome-plated finish

Article No.	Article Description	QTY
4415N 12 20 2	1/2"SOCKET SET,HEX ECO 20PCE	1

Contains 1 each of:

- Art.-No. 4401N 12: 1/2" Lever switch-over ratchet, 72 teeth, 250 mm ECO
- Art.-No. 4407N 12: 1/2" Articulated joint, 74 mm ECO
- Art.-No. 4420N 250: 1/2" Extension, 250 mm ECO
- Art.-No. 4420N 250 0: 1/2" Slide head for extension
- Art.-No. 4420N 125: 1/2" Square extension, 125 mm
- AGR 4427N: 1/2" Socket wrench inserts, length: 39 – 44 mm SW 10/11/12/13/14/15/16/17/18/19/22/24/27/30/32



Socket Wrench Set, 2-way Insulation 1/2"

- Dipped insulation as per DIN EN 60900
- In a solid plastic case



Article No	Article Description	QTY
4998 1003	SOCKET WRENCH SET 16PCS 1/2"	1

Contents each 1x:

- 1x Art. No. 4446 12 1: 1/2" reversible ratchet with ball stop, 1,000 V
- 1x Art. No. 4446 12 125: 1/2" extension 125 mm, 1,000 V
- 1x Art. No. 4446 12 250: 1/2" extension 250 mm, 1,000 V
- 1x Art. No. 4446 12 11: 1/2" socket wrench with T-handle and screw stop, 1,000 V
- 1x Art. No. 4446 1 12 10: 1/2" hex socket wrench insert SW 10, 1,000 V
- 1x Art. No. 4446 1 12 11: 1/2" hex socket wrench insert SW 11, 1,000 V
- 1x Art. No. 4446 1 12 13: 1/2" hex socket wrench insert SW 13, 1,000 V
- 1x Art. No. 4446 1 12 14: 1/2" hex socket wrench insert SW 14, 1,000 V
- 1x Art. No. 4446 1 12 17: 1/2" hex socket wrench insert SW 17, 1,000 V
- 1x Art. No. 4446 1 12 19: 1/2" hex socket wrench insert SW 19, 1,000 V
- 1x Art. No. 4446 1 12 22: 1/2" hex socket wrench insert SW 22, 1,000 V
- 1x Art. No. 4446 1 12 24: 1/2" hex socket wrench insert SW 24, 1,000 V
- 1x Art. No. 4446 6 12 5: 1/2" hex socket wrench insert SW 5, 1,000 V
- 1x Art. No. 4446 6 12 6: 1/2" hex socket wrench insert SW 6, 1,000 V
- 1x Art. No. 4446 6 12 8: 1/2" hex socket wrench insert SW 8, 1,000 V
- 1x Art. No. 4260 35: Screwdriver MK 3.5, 1,000 V



3/4" Hexagon Socket Set, 21 pcs.

Article No.	Article Description	QTY
4415 34 21 3	3/4"HEXAGON SOCKET SET 21PCS	1

Contains 1x each of:

- Art. No. 4401 34 3: 3/4" lever switch-over ratchet, 500 mm with quick-release
- Art. No. 4402 34: Cross-slide handle, 450 mm
- Art. No. 4423 100: Square extension, 100 mm
- Art. No. 4423 200: Square extension, 200 mm
- Art. No. 4423 400: Square extension, 400 mm
- AGR 4428: 3/4" hexagon socket wrench inserts, sizes 19 / 21 / 22 / 23 / 24 / 26 / 27 / 29 / 30 / 32 / 35 / 36 / 38 / 41 / 46 / 50 mm



Hex Socket Wrench Set 1", 22-Part **TRUCKline**

Article No.	Article Description	QTY
4415 1 22	1"TL WRENCH SOCKET SET 22PART	1

Contents each 1x:

- Reversible ratchet 1"
- Sliding head 1"
- Extension 550 mm (to be used as ratchet grip and together with the sliding head as T-handle)
- Square extension 200 mm
- Square extension 400 mm
- 1" Hex socket wrench inserts SW 36 / 38 / 41 / 46 / 50 / 54 / 55 / 58 / 60 / 63 / 65 / 67 / 70 / 71 / 75 / 77 / 80 mm



Tool Kit - Hexagon 1/4" + 1/2", 167-Part

Article No	Article Description	QTY
4415 167	TOOL KIT 167-PART	1



Set includes:

- 1x Art. No. 4401 14 36 Reversible ratchet 1/4"
- 1x Art. No. 4403 14 1 Twist handle
- 1x Art. No. 4402 14 T-handle
- 1x Art. No. 4407 14 Articulation piece
- 1x Art. No. 4418 50 Square extension 50 mm
- 1x Art. No. 4418 125 Square extension 125 mm
- 1x Art. No. 4417 14 150 Square extension, flexible 150 mm
- 1x Art. No. 4361 14 64 Plug adapter 1/4" hex x 1/4" square
- AGR 4425 Socket wrench inserts, short 25 mm SW 4/5/5,5/6/7/8/9/10/11/12/13
- AGR 4425 Socket wrench inserts, long 50 mm SW 6/7/8/9/10/11/12/13
- AGR 4450 Bit hex socket wrench SW 3/4/5/6/7/8
- AGR 4470 Bit socket wrench insert PH SW 1/2/3
- AGR 4471 Bit slotted socket wrench inser SW 4/5
- AGR 4455 Bit socket wrench insert with head drilling TX 10/15/20/25/27/30/40
- AGR 4462 Bit socket wrench insert multitooth M5/M6/M8
- 1x Art. No. 4401 12 36 Reversible ratchet 1/2"
- 1x Art. No. 4420 125 Square extension 125 mm
- 1x Art. No. 4420 250 Square extension 250 mm
- 1x Art. No. 4407 12 Articulation piece
- 1x Art. No. 4402 12 T-handle
- AGR 4427 Socket wrench inserts SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32/34
- AGR 4427 Socket wrench insert, long 1/2" hex SW 10/11/12/13/14/15/16/17/18/19
- AGR 4440 Insert 1/4"-drive TX E4/E5/E6/E7/E8
- AGR 4442 Insert 1/2"-drive TX E10/E11/E12/E14/E16/E18/E20
- AGR 4320 Special bit TX-long TX 20/25/27/30/40/45/50/55/60
- AGR 4320 Special bit TX-short with head drilling TX 20/25/27/30/40/45/50/55/60
- AGR 4322 Multitooth-bit, short XZN 5/6/8/10/12
- AGR 4322 Multitooth-bit, long XZN 6/8/10/12
- AGR 4323 Hex bit, short SW 4/5/6/7/8/10/12
- AGR 4323 Hex bit, long SW 5/6/7/8/10
- AGR 4324 Slotted bit, short LS 8 / 10
- AGR 4325 Philips bit, short PH 2 / 3
- 1x Art. No. 4361 12 10 Bit adapter 1/2"
- AGR 4628 Combination wrench SW 8/9/10/11/12/13/14/15/16/17/18/19
- AGR 4586 Mini combination wrench SW 10/11/12/13/14/17/19
- AGR 4158 Ball head hex socket wrench SW 1.5/2/2.5/3/4/5/6/7/8/10



Socket set, hex. 1/2"+1/4", 94 pcs. **ECO**

- Matt chrome-plated finish



Article No.	Article Description	QTY
4415N 94 2	1/2+1/4"SOCKET SET ECO 94PCE	1

Contains 1 each of:

- Art.-No. 4401N 14: Lever switch-over ratchet 1/4", 72 teeth, 140 mm ECO
- Art.-No. 4403N 14: Rotary handle 1/4" 115 mm ECO
- Art.-No. 4402N 14: Cross-slide handle 1/4" 109 mm ECO
- Art.-No. 4407N 14: Articulated joint 1/4", 39 mm ECO
- AGR 4418N: Square extension 1/4", 50 mm, 100 mm ECO
- Art.-No. 4417N 14 150: Square flexible extension 1/4", 150 mm ECO
- Art.-No. 4361N 14 64: Socket adapter 1/4" hex., 1/4" square ECO
- AGR 4425N: Socket wrench inserts 1/4", short, 25 mm SW 4/4.5/5/5.5/6/7/8/9/10/11/12/13/14
- AGR 4425N: Socket wrench inserts 1/4" MC, long, 50 mm SW 6/7/8/9/10/11/12/13
- AGR 4450: Socket wrench insert bits hex. 1/4", 37 mm ECO SW 3/4/5/6
- AGR 4471N: Socket wrench insert bits 1/4", slotted head, 37 mm ECO LS 5/5.5/7
- AGR 4470N: Socket wrench insert bits 1/4", Phillips head, 37 mm ECO PH 1/2
- AGR 4472N: Socket wrench insert bits 1/4", Phillips head, 37 mm ECO PZ 1/2
- AGR 4455N: TX socket wrench insert bits with head hole 1/4", 37 mm ECO TX 8/10/15/20/25/30
- Internal hex. Allen wrench set, 3 pcs. SW 1.5/2/2.5 mm
- Art.-No. 4401N 12: Lever switch-over ratchet 1/2", 72 teeth, 250 mm ECO
- Art.-No. 4407N 12: Articulated joint 1/2", 74 mm ECO
- Art.-No. 4420N 250: Square extension, 250 mm ECO
- Art.-No. 4420 250 0: Slide head for extension Eco
- Art.-No. 4420N124: Square extension 1/2" 125 mm ECO
- AGRN 4427: Socket wrench inserts 1/2", short, 39 – 44 mm ECO SW 10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/27/30/32
- AGR 4427N: Socket wrench inserts 1/2" 77 mm ECO SW 14/15/17/19
- AGR 4485N: Spark plug sockets 1/2" 65 mm ECO SW 16/21
- Art.-No. 4361N 12 516: Bit adapter 1/2" x 5/16" ECO
- AGR 4354N: Internal hex. bits 5/16" 30 mm ECO SW 8/10/12/14
- AGR 4351N: PH bits 5/16", 30 mm, size 3/4 ECO
- AGR 4352N: PZ bits 5/16", 30 mm, size 3/4 ECO
- AGR 4350N: LS bits 5/16" 30 mm ECO 1.3x8 mm / 1.7x10 mm / 1.9x12 mm
- AGR 4309N: TX bits 5/16" with head hole, 30 mm ECO TX 40/45/50/55



Socket Wrench Set, 127 pcs. **ECO**

- matt chrome finish



Article No.	Article Description	QTY
4415N 127 2	TOOL SET MC ECO 127PCS	1

Scope of delivery:

- Art. No. 4401N 14: Reversible ratchet 1/4" fine toothed with 72 teeth, ECO
- Art. No. 4403N 14: Turning handle 1/4" 150 mm ECO
- Art. No. 4361N 14 14: 1/4" x 1/4" bit adapter ECO
- Art. No. 4407N 14: Joint 1/4" 39 mm ECO
- AGR 4418N: Extensions 1/4" length 50, 100 mm ECO
- AGR 4425N: Socket wrench inserts 1/4" hexagon short ECO SW 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- AGR 4425N: Socket wrench inserts 1/4" hexagon long ECO SW 6; 7; 8; 9; 10; 11; 12; 13
- AGR 4450N: Screwdriver inserts 1/4" hexagon 3; 4; 5; 6 mm ECO
- AGR 4471N: Screwdriver inserts 1/4" slot 4; 5,5; 7 ECO
- AGR 4470N: Screwdriver inserts 1/4" PH 0; PH 1 ECO
- AGR 4472N: Screwdriver inserts 1/4" PZ 0; PZ 1 ECO
- AGR 4455N: Screwdriver inserts 1/4" TX ECO, T 8; T 10; T 15; T 20; T 25; T 30
- Art. No. 4401N 12: Reversible ratchet 1/2" fine toothed with 72 teeth, ECO
- Art. No. 4407N 12: Joint 1/2" ECO
- AGR 4420N: Extension 1/2" 125 mm, 250 mm ECO
- Art. No. 4361N 12 516: Adapter 1/2" square – 5/16" hexagon ECO
- AGR 4427N: Socket wrench inserts 1/2" hexagon short ECO, SW 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 27; 30; 32 mm
- AGR 4427N: Socket wrench inserts 1/2" hexagon long ECO, SW 14; 15; 17; 19 mm
- AGR 4156: Allen key 1,27; 1,5; 2; 2,5; 3; 4; 5 mm
- AGR 4354N: Bits hexagon 5/16" ECO 8; 10; 12; 14 mm
- AGR 4350N: Bits slot 5/16" ECO 8,0 x 1,3; 10,0 x 1,7; 12,0 x 1,9 mm
- AGR 4351N: Bits PH 5/16" ECO 3; PH 4
- AGR 4352N: Bits PZ 5/16" ECO 3; PZ 4
- AGR 4353N: Bits TX 5/16" ECO T 40; T 45; T 50; T 55
- AGR 4300: Bits LS 1/4" 3; 4; 4,5; 5,5
- AGR 4301: Bits PH 1/4" 1; 2; 3
- AGR 4302: Bits PZ 1/4" 1; 2; 3
- AGR 4303: Bits TX 1/4" 8; 10; 15; 20; 25; 27; 30; 40
- AGR 4305: Bits hexagon 1/4" 3; 4; 5; 6
- AGR 4584N: Ring - open-end wrench ECO, SW 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19



Socket set 1/4"+3/8"+1/2", 172 pcs. **ECO**

- mat chromium plated
- Everything within reach in one robust plastic case
- Fine-toothed switch-over ratchet with 72 teeth
- 1/4", 3/8", 1/2" lever switch-over ratchets



Article No.	Article Description	QTY
4415N 172 2	SOCKET WRENCH SET ECO 172 PCS	1

Delivery includes:

- Art.-No. 4401N 14: 1/4" fine-toothed switch-over ratchet with 72 teeth ECO
- Art.-No. 4361N 14 14: 1/4" x 1/4" bit adapter ECO
- Art.-No. 4402N 14: 1/4" cross handle 110 mm ECO
- Art.-No. 4407N 14: Articulated joint 1/4", 39 mm ECO
- AGR 4418N: Extensions 1/4" length 50, 100 mm ECO
- Art.-No. 4403N 14: Rotary handle 1/4" 150 mm ECO
- AGR 4425N: Socket wrench inserts 1/4" hex. short ECO SW 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- AGR 4425N: Socket wrench inserts 1/4" hex. long ECO SW 4; 5; 6; 7; 8; 9; 10
- AGR 4440N: Socket wrench inserts 1/4" TX E4; E5; E6; E7; E8 ECO
- AGR 4450N: Screwdriver inserts 1/4" hex., 3; 4; 5; 6 mm ECO
- AGR 4471N: Screwdriver inserts 1/4" slotted head, 4; 5.5; 6.5; 7 ECO
- AGR 4470N: Screwdriver inserts 1/4" PH 0; PH 1; PH 2 ECO
- AGR 4472N: Screwdriver inserts 1/4" PZ 0; PZ 1; PZ 2 ECO
- AGR 4455N: Screwdriver inserts 1/4" TX ECO, T 8; T 9; T 10; T 15; T 20; T 25; T 27; T 30
- AGR 4455N: Screwdriver inserts 1/4" TX with bore ECO, T 8 H; T 9 H; T 10 H; T 15 H; T 20 H; T 25 H; T 27 H; T 30 H
- AGR 4326N: 1/4" multi-toothed bit ECO M 5; M 6; M 8
- AGR 4303N: 1/4" bit TX ECO, T 5; T 6; T 7
- AGR 4329N: 1/4" spline socket bit TX ECO, T 5; T 7; T 9
- AGR 4308N: 1/4" bit TX with bore ECO, 7H; TX 10 H; TX 15 H; TX 20 H; TX 25 H; TX 27 H; TX 30 H; TX 40 H; TX 45 H
- Art.-No. 4401N 38: 3/8" fine-toothed switch-over ratchet with 72 teeth ECO
- Art.-No. 4407N 38: Articulated joint 3/8", 39 mm ECO
- Art.-No. 4419N 125: Extension 125 mm ECO
- Art.-No. 4361N 38 516: Adapter 3/8" square – 5/16" hex. ECO
- AGR 4426N: Socket wrench inserts 3/8" hex. short ECO SW 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
- AGR 4426N: Socket wrench inserts 3/8" hex. long ECO SW 10; 11; 12; 13; 14; 15 mm
- AGR 4441N: Socket wrench inserts 3/8" TX ECO E10; E11; E12; E14; E16; E18
- Art.-No. 4485N 38 18: Spark plug insert 3/8" SW 18 mm ECO
- Art.-No. 4401N 12: 1/2" fine-toothed switch-over ratchet with 72 teeth ECO
- Art.-No. 4407N 12: Articulated joint 1/2" ECO
- AGR 4420N: Extension 1/2", 125 mm, 250 mm ECO
- Art.-No. 4420N 250 0: Slide head for 1/2" extension ECO
- Art.-No. 4361N 12 516: Adapter 1/2" square – 5/16" hex. ECO
- AGR 4425N: Socket wrench inserts 1/2" hex. short ECO, SW 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm
- AGR 4425N: Socket wrench inserts 1/2" hex. long ECO SW 16; 17; 18; 19; 22 mm
- AGR 4442N: Socket wrench inserts 1/2" TX E20; E24 ECO
- AGR 4485N: Spark plug inserts 1/2" ECO 16, 21 mm
- Allen wrench 1.27; 1.5; 2; 2.5; 3; 4; 5 mm
- AGR 4354N: 5/16" bits hex. ECO 7; 8; 10; 12; 14 mm
- AGR 4350N: 5/16" bits slotted head ECO 8.0 x 1.3; 10.0 x 1.7; 12.0 x 1.9 mm
- AGR 4351N: Bits PH 5/16" ECO 3; PH 4
- AGR 4352N: Bits PZ 5/16" ECO 3; PZ 4
- AGR 4353N: Bits TX 5/16" ECO T 40; T 45; T 50; T 55; T 60; T 70
- AGR 4309N: Bits with bore TX 5/16" ECO T 40 H; T 45 H; T 50 H; T 55 H; T 60 H; T 70 H



Reversible Ratchet **FÖRCH*******

Art. No. 4401 14 20 50:

- 1/4" drive
- With ergonomic two-component handle
- 20 teeth

Art. No. 4401 38 30 50:

- 3/8" drive
- With ergonomic two-component handle
- 30 teeth

Art. No. 4401 12 32 50:

- 1/2" drive
- With ergonomic two-component handle
- 32 teeth

Article No.	Article Description	QTY
4401 14 20 50	1/4" REVERSIBLE RATCHET 20T 5°	1
4401 38 30 50	3/8" REVERSIBLE RATCHET 30T 5°	1
4401 12 32 50	1/2" REVERSIBLE RATCHET 32T 5°	1



Reversible Ratchet, Fine Toothing **FÖRCH*******

- More safety due to tool locking mechanism
- Knurling wheel makes the adjustment of left to right turning in every position possible
- Fine toothing (72 teeth) for low pivot angle of only 5°. Quick and precise working for any position.
- Perfect for narrow and tight spaces. Great hand freedom.
- 180° pivotable head can be locked at 0°, 15° and 90°
- Usable in 0°-position such as standard screwdrivers. The flywheel construction and sleeve make quick reversible action possible.
- The finger trough of the ratchet head is perfectly formed for quick and safe workings



Article No.	Article Description	QTY
4401 14 50	1/4" REVERSIBLE RATCHET 5°	1
4401 38 50	3/8" REVERSIBLE RATCHET 5°	1
4401 12 50	1/2" REVERSIBLE RATCHET 5°	1



Zyklop Switch Lever Wrenches **FÖRCH*******

- Forged full-metal ratchet with switch lever
- Particularly robust
- Hot dip galvanised with 72 teeth
- 5° returning angle
- The tool stop ensures a secure position



Article No	Article Description	QTY
4401 5 14 72	1/4"SW LEVER WRENCH 72Z 5*	1
4401 5 38 72	3/8"SW LEVER WRENCH 72Z 5*	e 3
4401 5 12 72	1/2"SW LEVER WRENCH 72Z 5*	1

Zyklop Push Lever Wrenches **FÖRCH*******

- Forged full-metal ratchet with push-through square
- Particularly robust
- Change direction easily with undetachable push-through square
- Finely toothed with 72 teeth
- 5° returning angle
- The tool stop ensures a secure position



Article No.	Article Description	QTY
4401 5 14 76 1	1/4"PUSH LEVER WR 72Z 5*	1
4401 5 38 76 1	3/8"PUSH LEVER WR 72Z 5*	1 r
4401 5 12 76 1	1/2"PUSH LEVER WR 72Z 5*	1 r

Lever Switch Ratchet, Coarse Toothed

- With tool locking mechanism and lever switch function
- Due to coarse toothing very robust and with long service life
- With ergonomic two-component grip

Art.-No. 4401 14 36:

- 36 teeth

Art.-No. 4401 38 30:

- 30 teeth



Article No.	Article Description	QTY
4401 14 36	1/4"REVERSIBLE RATCHET 36TEETH	1
4401 12 36	1/2"REVERSIBLE RATCHET 36TEETH	1

Reversible Ratchet, Fine Toothing

- With tool locking mechanism and lever switch function
- 72 teeth

Article No.	Article Description	QTY
4401 14 4	1/4"REVERSIBLE RATCHET 110MM	1
4401 38 4	3/8"REVERSIBLE RATCHET 200MM	1
4401 12 4	1/2"REVERSIBLE RATCHET 250MM	1



Reversible Ratchet, Fine Toothed, Narrow Head

- With tool locking mechanism and lever switch function
- 72 teeth
- Extremely narrow head

Article No.	Article Description	QTY
4401 14 7	1/4"REV.RATCH.VERY NARROW140MM	1
4401 38 7	3/8"REV.RATCH.VERY NARROW195MM	1
4401 12 7	1/2"REV.RATCH.VERY NARROW245MM	1



Reversible ratchet, fine toothed **ECO**

- with tool stop and switch lever
- 72 teeth
- Plastic-coated

Article No.	Article Description	QTY
4401N 14	1/4"REVERS.RATCHET 150MM ECO	1
4401N 38	3/8"REVERS.RATCHET 200MM ECO	1
4401N 12	1/2"REVERS.RATCHET 250MM ECO	1



Reversible Ratchet **ECO**

- With tool locking mechanism and lever switch function
- 45 teeth
- Matt chrome-plated

Article No.	Article Description	QTY
4401 14 5	1/4"REVERSIBLE RATCHET 140MM	1
4401 12 6	1/2"REVERSIBLE RATCHET 250MM	1



Reversible Ratchets **TRUCKline**

- 24 teeth with tool arrester and lever control

Article No.	Article Description	QTY
4401 34 1	3/4" REVERSIBLE RATCHET 500MM	1
4401 34 2	3/4" REVERSIBLE RATCHET 1000MM	1
4401 1 1	1" REVERSIBLE RATCHET 650MM	1



Lever switch-over ratchet 3/4" telesc. 60–100 cm

- In plastic case
- Made of chrome-vanadium steel, mirror polished
- With switch lever to the left/right and socket lock
- Grooved handle
- Easy fixing thanks to high-grip locking ring in six different lengths (all 80 mm)
- Powerful leverage makes work easy
- Solid internal handle bar made of 23-mm-thick chromium-vanadium steel
- External handle bar made of 3.5-mm-thick chromium-vanadium steel
- Maximum torque: 1,000 Nm
- Application areas: HGVs, agricultural machines, forestry machinery, construction machinery
- Compatible with: Repair kit (Art.-No. 4401 34 100 9)



Technical Data

Art.-No.	Drive	Number of teeth	Application	Length	Weight
4401 34 100	3/4" (20 mm square)	24	Up to 1,000 Nm	60–100 cm	3.85 kg

Article No.	Article Description	QTY
4401 34 100	3/4" TELESC. LEV. RATCH. 60-100	1
4401 34 100 9	REP. KIT 3/4" REF. RATCHET TELESC	1



Flex Handle

- To loosen of extremely seized screw connections
- Extra long version with 180° joint

Article No.	Article Description	QTY
4402 12 2	1/2" FLEX HANDLE 600MM	1
4402 34 2	3/4" FLEX HANDLE 1000MM	1
4402 12 2 1	DRIVE HEAD FOR FLEX HANDLE	1



Reversible ratchet, 2-way insulation

- Square drive as per DIN 3120/1174 with ball stop
- Modelled on DIN 7449
- Dipped insulation as per DIN EN 60900
- With exchangeable 32-tooth ratchet head
- With force-locking onto the square
- Chrome vanadium

Art.-No. 4446 38 1, 4446 12 1:

- Secure locking mechanics onto the square

Article No.	Article Description	QTY
4446 14	1/4" REVERSIBLE RATCHET 1000V	1
4446 38	3/8" REVERSIBLE RATCHET 1000V	1
4446 38 1	3/8" REVERS. RATCH. W.B.A 1000V	1
4446 12	1/2" REVERSIBLE RATCHET 1000V	1
4446 12 1	1/2" REVERS. RATCH.W.B.A 1000V	1



4446 14, 4446 38, 4446 12



4446 38 1, 4446 12 1

Bit ratchet, fine toothed

Art.-No. 4401 10:

- Bit intake with ball stop, 72 teeth

Art.-No. 4401 14 14:

- Bit intake with magnetic holder, 72 teeth

Art.-Nr. 4401 14 85:

- Bit intake with spring lock, 60 teeth

Article No.	Article Description	QTY
4401 10	10MM BIT RATCHET L-112MM	1
4401 14 14	1/4" BIT RATCHET L-110MM	1
4401 14 85	1/4" BIT- RATCHET 5* L-85MM	1



4401 10



4401 14 14



4401 14 85

Reversible ratchet repair set **FÖRCH*******

Application

Art.-No.	For Art.-No.	Art. description
5008 63 7 1	4401 14 20 50	1/4" lever wrench 20 Z 5*
5088 16 7	4401 38 30 50	3/8" lever wrench 30 Z 5*
5009 16 71	4401 12 32 50	1/2" lever wrench 32 Z 5*

Article No.	Article Description	QTY
5008 63 7 1	863P/7N REP.SET 1/4"KN.5* 20Z	1
5088 16 7	8816P/7N REP.SET 3/8"K.5* 30Z	1
5009 16 71	916SP/7-1 REP.SET 1/2"K.5* 32Z	1



Reversible ratchet, fine toothed repair set

Application

Art.-No.	For Art.-No.	Art. Description
4401 14 4 9	4401 14 4	1/4" Reversible ratchet 110 mm
4401 38 4 9	4401 38 4	3/8" Reversible ratchet 200 mm
4401 12 4 9	4401 12 4	1/2" Reversible ratchet 250 mm

Article No.	Article Description	QTY
4401 14 4 9	REP.SET 1/4"REVERS.RATCH.110MM	1
4401 38 4 9	REP.SET 3/8"REVERS.RATCH.200MM	1
4401 12 4 9	REP.SET 1/2"REVERS.RATCH.250MM	1



Reversible ratchet, very narrow repair set

Application

Art.-No.	For Art.-No.	Art. Description
4401 14 7 9	4401 14 7	1/4" Revers. ratchet narrow 140 mm
4401 38 7 9	4401 38 7	3/8" Revers. ratchet narrow 195 mm
4401 12 7 9	4401 12 7	1/2" Revers. ratchet narrow 245 mm

Article No.	Article Description	QTY
4401 14 7 9	R.SET 1/4"RE.RATCH.VERY NARROW	1
4401 38 7 9	R.SET 3/8"RE.RATCH.VERY NARROW	1
4401 12 7 9	R.SET 1/2"RE.RATCH.VERY NARROW	1



Reversible ratchet repair set

Application

Art.-No.	For Art.-No.	Art. Description
4401 14 36 9	4401 14 36	1/4" Reversible ratchet 36 t.
4401 38 30 9	4401 38 30	3/8" Reversible ratchet 30 t.
4401 12 36 9	4401 12 36	1/2" Reversible ratchet 36 t.
4401 34 9 1	4401 34 1	3/4" Reversible ratchet 500 mm
	4401 34 2	3/4" Reversible ratchet 1,000 mm
4401 34 100 9	4401 34 100	3/4" Reversible ratchet telesk. 60 – 100 cm

Article No.	Article Description	QTY
4401 14 36 9	REP.SET 1/4" REV.RATCHET 36T.	1
4401 38 30 9	REP.SET 3/8" REV.RATCHET 30T.	1
4401 12 36 9	REP.SET 1/2" REV.RATCHET 36T.	1
4401 34 9 1	REP.SET 3/4"REVERSIBLE RATCHET	1
4401 34 100 9	REP.KIT 3/4"REF.RATCHET TELESC	1

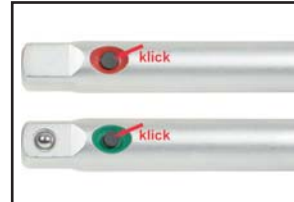


Extension, Square **FÖRCH*******

- Freewheel function make quick and problem-free tightening and loosening of nuts and screws possible
- „Flexible Lock System“ for optional tight connection or quick change of slip-on tools
- Red: nut locked
- Green: nut can be slipped-on or can be removed



Article No.	Article Description	QTY
4418 75 50	1/4" EXTENSION SQUARE 5* 75MM	1 z
4418 150 50	1/4" EXTENSION SQUARE 5* 150MM	1 z
4419 125 50	3/8" EXTENSION SQUARE 5* 125MM	1 z
4419 250 50	3/8" EXTENSION SQUARE 5* 250MM	1 z
4420 125 50	1/2" EXTENSION SQUARE 5* 125MM	1 z
4420 250 50	1/2" EXTENSION SQUARE 5* 250MM	1 z



- Flexible Lock System



- Freewheel function for quick rotation

Extension set 4-edge 6-pce



- Extra long extensions for deep set screw joints
- Chrome-plated surface
- With locking mechanism against inadvertent release
- Knurling for optimum grip
- 32 mm extension with tipping function up to 15°, without locking mechanism
- Length of the individual extensions
 - 1/4": 32 mm, 75 mm, 125 mm, 250 mm, 300 mm, 400 mm
 - 3/8": 32 mm, 75 mm, 125 mm, 250 mm, 400 mm, 600 mm
 - 1/2": 32 mm, 75 mm, 125 mm, 250 mm, 400 mm, 600 mm

Article No.	Article Description	QTY
4418 14	1/4"EXTENSION SET SQUARE 6PART	1
4419 38	3/8"EXTENSION SET SQUARE 6PART	1
4420 12	1/2"EXTENSION SET SQUARE 6PART	1

Contents Art.-No. 4418 14 each 1x:

- Art.-No. 440450 50: 1/4" tip extension 4-edge, 32 mm
- Art.-No. 4418 14 75: 1/4" extension 4-edge MV, 75 mm
- Art.-No. 4418 14 125: 1/4" extension 4-edge MV, 125 mm
- Art.-No. 4418 14 250: 1/4" extension 4-edge MV, 250 mm
- Art.-No. 4418 14 300: 1/4" extension 4-edge MV, 300 mm
- Art.-No. 4418 14 400: 1/4" extension 4-edge MV, 400 mm

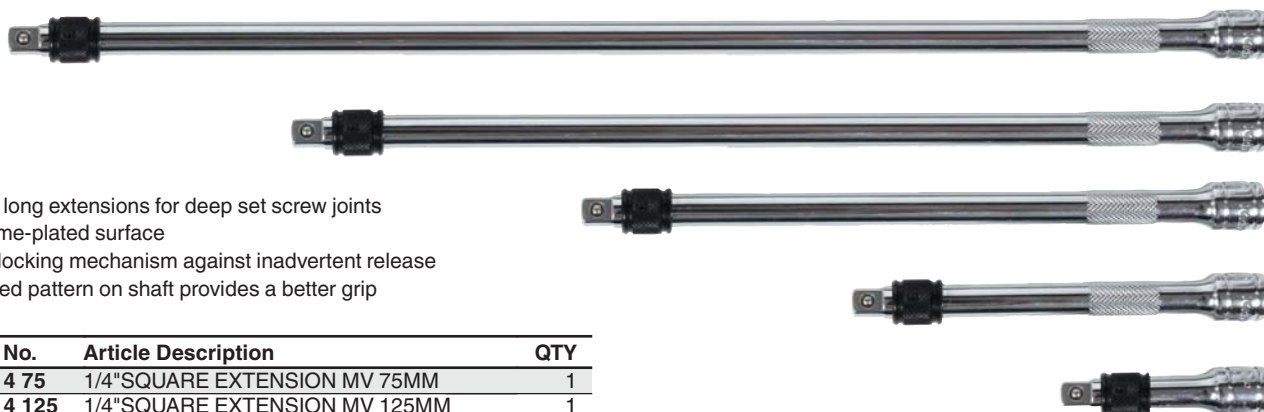
Contents Art.-No. 4419 38 each 1x:

- Art.-No. 4419 38 32: 3/8" Tip extension 4-edge, 32 mm
- Art.-No. 4419 38 75: 3/8" Extension 4-edge MV, 75 mm
- Art.-No. 4419 38 125: 3/8" Extension 4-edge MV, 125 mm
- Art.-No. 4419 38 250: 3/8" Extension 4-edge MV 250 mm
- Art.-No. 4419 38 400: 3/8" Extension 4-edge MV 400 mm
- Art.-No. 4419 38 600: 3/8" Extension 4-edge MV 600 mm

Contents Art.-No. 4420 12 each 1x:

- Art.-No. 4406 50 50: 1/2" Tip extension 4-edge, 32 mm
- Art.-No. 4420 12 75: 1/2" Extension 4-edge MV, 75 mm
- Art.-No. 4420 12 125: 1/2" Extension 4-edge MV, 125 mm
- Art.-No. 4420 12 250: 1/2" Extension 4-edge MV, 250 mm
- Art.-No. 4420 12 400: 1/2" Extension 4-edge MV, 400 mm
- Art.-No. 4420 12 600: 1/2" Extension 4-edge MV, 600 mm

Square extension with locking mechanism



- Extra long extensions for deep set screw joints
- Chrome-plated surface
- With locking mechanism against inadvertent release
- Knurled pattern on shaft provides a better grip

Article No.	Article Description	QTY
4418 14 75	1/4"SQUARE EXTENSION MV 75MM	1
4418 14 125	1/4"SQUARE EXTENSION MV 125MM	1
4419 38 75	3/8"SQUARE EXTENSION MV 75MM	1
4419 38 125	3/8"SQUARE EXTENSION MV 125MM	1
4419 38 250	3/8"SQUARE EXTENSION MV 250MM	1
4419 38 400	3/8"SQUARE EXTENSION MV 400MM	1
4420 12 75	1/2"SQUARE EXTENSION MV 75MM	1
4420 12 250	1/2"SQUARE EXTENSION MV 250MM	1

Extension, Square

Article No.	Article Description	QTY
4418 50	1/4"EXTENSION SQUARE 50MM	1
4418 100	1/4"EXTENSION SQUARE 100MM	1
4418 125	1/4"EXTENSION SQUARE 125MM	1
4418 150	1/4"EXTENSION SQUARE 150MM	1
4419 75	3/8"EXTENSION SQUARE 75MM	1
4419 125	3/8"EXTENSION SQUARE 125MM	1
4419 250	3/8"EXTENSION SQUARE 250MM	1
4420 75	1/2"EXTENSION SQUARE 75MM	1
4420 125	1/2"EXTENSION SQUARE 125MM	1
4420 250	1/2"EXTENSION SQUARE 250MM	1
4423 75	3/4"EXTENSION SQUARE 75MM	1
4423 100	3/4"EXTENSION SQUARE 100MM	1
4423 200	3/4"EXTENSION SQUARE 200MM	1
4423 400	3/4"EXTENSION SQUARE 400MM	1



Extension, Square **ECO**

- matt chrome-plated

Article No.	Article Description	QTY
4418N 50	1/4"EXTENSION SQUARE 50MM ECO	1
4418N 100	1/4"EXTENSION SQUARE 100MM ECO	1
4419N 125	3/8"EXTENSION SQUARE 125MM ECO	1
4420N 125	1/2"EXTENSION SQUARE 125MM ECO	1
4420N 250	1/2"EXTENSION SQUARE 250MM ECO	1
4420N 250 0	1/2"RUNN.HEAD F.EXTENSION ECO	1



Extension, 2-way insulation

- In accordance with DIN 7434
- Dipped insulation as per DIN EN 60900
- Square socket drive as per DIN 3120/ISO 1174 with ball stop
- With force-locking on the square
- Chrome vanadium

Art.-No. 4446 38 125 1, 4446 38 250 1:

- With screw stop at the square

Art.-No. 4446 12 125 1, 4446 12 250 1:

- 250 mm with screw stop on the outer square
- 125 mm, also with the screw locking of closed Allen, TX and XZN sockets from below through the inner square of the extension

Art.-No. 4446 12 125 2, 4446 12 250 2:

- Socket stops automatically on the outer square when inserting a tool into the inner square of the extension



Article No.	Article Description	QTY
4446 14 50	1/4" EXTENSION 50MM	1
4446 14 75	1/4" EXTENSION 75MM	1
4446 14 105	1/4" EXTENSION 105MM	1
4446 14 150	1/4" EXTENSION 150MM	1
4446 38 125	3/8" EXTENSION 125MM	1
4446 38 125 1	3/8" EXTENSION 125MM W.B.A	1
4446 38 250	3/8" EXTENSION 250MM	1
4446 38 250 1	3/8" EXTENSION 250MM W.B.A	1
4446 12 125	1/2" EXTENSION 125MM	1
4446 12 250	1/2" EXTENSION 250MM	1
4446 12 125 1	1/2" EXTENS. W.S.A. 125MM	1
4446 12 250 1	1/2" EXTENS. W.S.A. 250MM	1
4446 12 125 2	1/2" EXTENS. W.S.A. 125MM	1
4446 12 250 2	1/2" EXTENS. O.SQ.A 250MM	1

Technical Data

Art.-No.	Drive mm	L mm
4446 14 50	1/4"	50.0
4446 14 75	1/4"	75.0
4446 14 105	1/4"	100.0
4446 14 150	1/4"	150.0
4446 38 125	3/8"	125.0
4446 38 125 1	3/8"	125.0
4446 38 250	3/8"	250.0
4446 38 250 1	3/8"	250.0
4446 12 125	1/2"	125.0
4446 12 250	1/2"	250.0
4446 12 125 1	1/2"	125.0
4446 12 250 1	1/2"	250.0
4446 12 125 2	1/2"	125.0
4446 12 250 2	1/2"	250.0



Angle Extension **FÖRCH**★★★★★

- With locking mechanism
- Can be angled to 15° or used as a simple extension

Article No.	Article Description	QTY
4404 28 50	1/4" ANGLE EXTENSION 28MM 5*	1
4404 50 50	1/4" ANGLE EXTENSION 50MM 5*	1
4404 100 50	1/4" ANGLE EXTENSION 100MM 5*	1
4404 150 50	1/4" ANGLE EXTENSION 150MM 5*	1
4405 75 50	3/8" ANGLE EXTENSION 75MM 5*	1
4405 125 50	3/8" ANGLE EXTENSION 125MM 5*	1
4405 250 50	3/8" ANGLE EXTENSION 250MM 5*	1
4406 50 50	1/2" ANGLE EXTENSION 50MM 5*	1
4406 125 50	1/2" ANGLE EXTENSION 125MM 5*	1
4406 250 50	1/2" ANGLE EXTENSION 250MM 5*	1



Extension Angle **FÖRCH**★★★★★

- With adjustment mechanism
- Sockets can be angled at 15° and directly locked into position via a 4-sided attachment
- The Wera brand

Article No.	Article Description	QTY
4405 75 38	3/8" EXTENSION ANGLE 75MM 5*	1



3/8" Angle extension

- With locking mechanism
- Sockets can be angled at 15° or locked straight via a square attachment

Article No.	Article Description	QTY
4405 42	3/8" ANGLE EXTENSION 42MM	1
4405 75	3/8" TIPPING EXTENSION 75MM	1



4405 42



4405 75

Extension, Reduction

- 1/2" **square drive** for the use of tool high load transmission
- 3/8" **square drive** for the use of space-saving socket wrench inserts, screwdriver bits etc.

Article No.	Article Description	QTY
4421 125	1/2-3/8" RED-EXTENSION 125MM	1
4421 250	1/2-3/8" RED-EXTENSION 250MM	1
4421 600	1/2-3/8" RED-EXTENSION 600MM	1



Extension, Bendable

Article No.	Article Description	QTY
4417 14 150	1/4"BENDABLE EXTENSION 150MM	1
4417 14	1/4"BENDABLE EXTENSION 300M	1
4417 38	3/8"BENDABLE EXTENSION 300MM	1



Extension, flexible **ECO**

- matt chrome-plated

Article No.	Article Description	QTY
4417N 14 150	1/4"EXTENS.FLEXIBLE 150MM ECO	1



Slider handle TX 1/4" **FÖRCH** ★★★★★

Article No.	Article Description	QTY
4402 14 50	1/4" T-HANDLE 115MM 5*	1



T-Handle

Article No.	Article Description	QTY
4402 14	1/4" T-HANDLE 115MM	1
4402 38	3/8" T-HANDLE 200MM	1
4402 12	1/2" T-HANDLE 300MM	1
4402 34	3/4" T-HANDLE 450MM	1
4402 1	1" T-HANDLE 550MM	1



Articulation Piece **FÖRCH** ★★★★★

Article No.	Article Description	QTY
4407 14 50	1/4" ARTICULATION PIECE 5*	1 z
4407 38 50	3/8" ARTICULATION PIECE 5*	1 z
4407 12 50	1/2" ARTICULATION PIECE 5*	1 z



Articulation Piece

Article No.	Article Description	QTY
4407 14	1/4" ARTICULATION PIECE 39MM	1
4407 38	3/8" ARTICULATION PIECE 50MM	1
4407 12	1/2" ARTICULATION PIECE 67MM	1
4407 34	3/4" ARTICULATION PIECE 105MM	1



Articulation piece **ECO**

- matt chrome-plated

Article No.	Article Description	QTY
4407N 14	1/4" ARTICUL. PIECE 39MM ECO	1
4407N 38	3/8" ARTICUL. PIECE 50MM ECO	1
4407N 12	1/2" ARTICUL. PIECE 74MM ECO	1



Articulated Socket Wrench Insert

Article No.	Article Description	QTY
4435 8	1/4" ARTIC. SOCK. WRENCH INSERT 8	1 z
4435 10	1/4" ARTIC. SOCK. WRENCH INSERT 10	1 z
4435 13	1/4" ARTIC. SOCK. WRENCH INSERT 13	1 z
4436 10	3/8" ARTIC. SOCK. WRENCH INSERT 10	1 z
4436 11	3/8" ARTIC. SOCK. WRENCH INSERT 11	1 z
4436 12	3/8" ARTIC. SOCK. WRENCH INSERT 12	1 z
4436 13	3/8" ARTIC. SOCK. WRENCH INSERT 13	1 z
4436 14	3/8" ARTIC. SOCK. WRENCH INSERT 14	1 z
4436 15	3/8" ARTIC. SOCK. WRENCH INSERT 15	1 z
4436 16	3/8" ARTIC. SOCK. WRENCH INSERT 16	1 z
4436 17	3/8" ARTIC. SOCK. WRENCH INSERT 17	1 z
4436 18	3/8" ARTIC. SOCK. WRENCH INSERT 18	1 z
4436 19	3/8" ARTIC. SOCK. WRENCH INSERT 19	1 z



Adapter for Bit Intake **FÖRCH*******

Article No.	Article Description	QTY
4361 14 14 50	1/4"BIT ADAPTER 5* FOR 1/4"BIT	1
4361 38 14 50	3/8"BIT ADAPTER 5* FOR 1/4"BIT	1
4361 12 516 50	1/2"BIT ADAPT.5* FOR 5/16"BIT	1



Adapter for Bit Intake Profi

Article No.	Article Description	QTY
4361 14 14	1/4"BIT ADAPT.F.1/4"BIT PROFI	1 ü
4361 38 14	3/8" BIT ADAPT.F.1/4"BIT PROFI	1 ü
4361 38 516	3/8"BIT ADAPT.F.5/16"BIT PROFI	1 ü
4361 12 14	1/2" BIT ADAPT.F.1/4"BIT PROFI	1 ü
4361 12 516	1/2"BIT ADAPT.F.5/16"BIT PROFI	1 ü



Adapter for Bit Intake Standard

Article No.	Article Description	QTY
4361 14 14 1	1/4X1/4" BIT ADAPTER STANDARD	1
4361 38 10	3/8"X10MM BIT ADAPTER STANDARD	1
4361 12 10	1/2"X10MM BIT ADAPTER STANDARD	1
4361 12 516 1	1/2"X5/16"BIT ADAPTER STANDARD	1



Adapter for bit intake **ECO**

- matt chrome-plated

Article No.	Article Description	QTY
4361N 14 14	1/4"X1/4" BIT-ADAPTER ECO	1
4361N 38 516	3/8"X5/16" BIT-ADAPTER ECO	1
4361N 12 516	1/2"X5/16" BIT-ADAPTER ECO	1



Adapter 1/4“ **FÖRCH*******

• Wera brand

Article No.	Article Description	VPE
4361 14 64 50	ADAPTER 1/4"HEX-1/4"SQU25MM 5*	1



Adapter 1/4“

Article No.	Article Description	QTY
4361 14 64	ADAPTER 1/4"HEXAGON 1/4"SQUARE	1



Adapter 1/4“ **ECO**

Article No.	Article Description	QTY
4361N 14 64	ADAPTER 1/4"6KT-1/4"4KT ECO	1



Bit holder 1/4", 2-way insulation

- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- With magnet
- For bits as per DIN 3126/C 6,3
- Chrome Vanadium

Technische Daten

Drive 1	Drive 2	D1	D2	L	
mm	mm	mm	mm	mm	
1/4"	1/4"	16.0	16.5	40.0	



Article No.	Article Description	QTY
4446 14 14	1/4" BIT-ADAPTER 1/4"	1

Bit holder 3/8"-1/4", 2-way insulation

- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- With magnet
- For bits as per DIN 3126 / C 6,3
- Chrome Vanadium

Technische Daten

Art.-No.	Dive	D1	D2	
	mm	mm	mm	
4446 38 14 125	3/8"	1/4"	25.0	13.0
4446 38 14 250	3/8"	1/4"	25.0	13.0



Article No.	Article Description	QTY
4446 38 14 125	3/8" BIT-ADAPTER 1/4" 125MM	1
4446 38 14 250	3/8" BIT-ADAPTER 1/4" 250MM	1

Reducing/increasing adapter, 2-way insul.

- In compliance with DIN 3123/ISO 3316
- Dipped insulation as per DIN EN 60900
- Square drive as per DIN 3120/ISO 1174 with ball stop
- Matt chromed
- Chrome vanadium

Technische Daten

Drive 1	Drive 2	D	L	
mm	mm	mm	mm	
1/2"	3/8"	20.0	75.0	
3/8"	1/2"	23.0	52.0	



Article No.	Article Description	QTY
4446 12 38	1/2"-3/8" ADAPTER REDUC.	1
4446 38 12	3/8"-1/2" ADAPTER ENLARGE.	1

Adapter for Socket Wrench Insert **FÖRCH*******

- R = Reduction
- V = Enlarge

Article No.	Article Description	QTY
4424 14 38 50	1/4-3/8" ADAPT.SOCKET WR INS 5*	1
4424 38 14 50	3/8-1/4" ADAPT.SOCKET WR INS 5*	1
4424 38 12 50	3/8-1/2" ADAPT.SOCKET WR INS 5*	1
4424 12 38 50	1/2-3/8" ADAPT-STECKS.EINS.R 5*	1
4424 12 34 50	1/2-3/4" ADAPT-STECKS.EINS.V 5*	1
4424 34 12 50	3/4-1/2" ADAPT-STECKS.EINS.R 5*	1



Adapter Set for Socket Wrenches **FÖRCH*******

- in VAROsoft system insert, Art.-No. 9026 95
- 6-parts

Article No.	Article Description	QTY
4424V 006	VS ADAPTER SET ENL./REDUC. 5*	1

Contents:

- **Enlarging:**
1/4" to 3/8", 3/8" to 1/2", 1/2" 3/4"
- **Reducing:**
3/8" to 1/4", 1/2" to 3/8", 3/4" to 1/2"



Adapter for Socket Wrench Insert

- R = Reduction
- E = Extension

Article No.	Article Description	QTY
4424 14 38	1/4-3/8" ADAPT.SOCK.WR.INS. E	1
4424 38 14	3/8-1/4" ADAPT.SOCK.WR.INS. R	1
4424 38 12	3/8-1/2" ADAPT.SOCK.WR.INS. E	1
4424 12 38	1/2-3/8" ADAPT.SOCK.WR.INS. R	1
4424 12 34	1/2-3/4" ADAPT.SOCK.WR.INS. E	1
4424 34 12	3/4-1/2" ADAPT.SOCK.WR.INS. R	1
4424 34 1	3/4-1" ADAPT.SOCK.WR.INS. E	1
4424 1 34	1-3/4" ADAPT.SOCK.WR.INS. R	1



(Square drive / square drive)

Adapter Set for Wrench Socket

- in VAROsoft system insert Art.-No. 9026 95
- 6-parts

Article No.	Article Description	QTY
4424V 6	VS ADAPTER SET EXTENS./REDUC.	1

Contents:

- **Extensions:**
1/4" to 3/8", 3/8" to 1/2", 1/2" to 3/4"
- **Reducing:**
3/8" to 1/4", 1/2" to 3/8", 3/4" to 1/2"

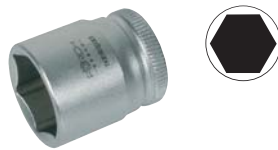


Hex Socket Wrench Insert

1/4" FORCH *****

Version:

- matt
- short



Article No.	Article Description	QTY
4425 4 50	1/4"HEX SOCK.INS.5* SW 4 23MM	1 z
4425 5 50	1/4"HEX SOCK.INS.5* SW 5 23MM	1 z
4425 55 50	1/4"HEX SOCK.INS.5* SW5.5 23MM	1 z
4425 6 50	1/4"HEX SOCK.INS.5* SW 6 23MM	1 z
4425 7 50	1/4"HEX SOCK.INS.5* SW 7 23MM	1 z
4425 8 50	1/4"HEX SOCK.INS.5* SW 8 23MM	1 z
4425 9 50	1/4"HEX SOCK.INS.5* SW 9 23MM	1 z
4425 10 50	1/4"HEX SOCK.INS.5* SW10 23MM	1 z
4425 11 50	1/4"HEX SOCK.INS.5* SW11 23MM	1 z
4425 12 50	1/4"HEX SOCK.INS.5* SW12 23MM	1 z
4425 13 50	1/4"HEX SOCK.INS.5* SW13 23MM	1 z

Hex Socket Wrench Insert

1/4" FORCH *****

Version:

- long



Article No.	Article Description	QTY
4425 4 50 50	1/4"HEX SOCK.INS.5* SW 4 50MM	1 z
4425 5 50 50	1/4"HEX SOCK.INS.5* SW 5 50MM	1 z
4425 6 50 50	1/4"HEX SOCK.INS.5* SW 6 50MM	1 z
4425 7 50 50	1/4"HEX SOCK.INS.5* SW 7 50MM	1 z
4425 8 50 50	1/4"HEX SOCK.INS.5* SW 8 50MM	1 z
4425 9 50 50	1/4"HEX SOCK.INS.5* SW 9 50MM	1 z
4425 10 50 50	1/4"HEX SOCK.INS.5* SW10 50MM	1 z
4425 11 50 50	1/4"HEX SOCK.INS.5* SW11 50MM	1 z
4425 12 50 50	1/4"HEX SOCK.INS.5* SW12 50MM	1 z
4425 13 50 50	1/4"HEX SOCK.INS.5* SW13 50MM	1 z

Hex Socket Wrench Insert

1/4"

Version:

- Long
- Short



Article No.	Article Description	QTY
4425 4	1/4"HEX.WRE.SOCK.INS. 4 25MM	1
4425 5	1/4"HEX.WRE.SOCK.INS. 5 25MM	1
4425 55	1/4"HEX.WRE.SOCK.INS.5,5 25MM	1
4425 6	1/4"HEX.WRE.SOCK.INS.6 25MM	1
4425 6 1	1/4"HEX.WRE.SOCK.INS.6 50MM	1
4425 7	1/4"HEX.WRE.SOCK.INS.7 25MM	1
4425 7 1	1/4"HEX.WRE.SOCK.INS.7 50MM	1
4425 8	1/4"HEX.WRE.SOCK.INS.8 25MM	1
4425 8 1	1/4"HEX.WRE.SOCK.INS.8 50MM	1
4425 9	1/4"HEX.WRE.SOCK.INS.9 25MM	1
4425 9 1	1/4"HEX.WRE.SOCK.INS.9 50MM	1
4425 10	1/4"HEX.WRE.SOCK.INS.10 25MM	1
4425 10 1	1/4"HEX.WRE.SOCK.INS.10 50MM	1
4425 11	1/4"HEX.WRE.SOCK.INS.11 25MM	1
4425 11 1	1/4"HEX.WRE.SOCK.INS.11 50MM	1
4425 12	1/4"HEX.WRE.SOCK.INS.12 25MM	1
4425 12 1	1/4"HEX.WRE.SOCK.INS.12 50MM	1
4425 13	1/4"HEX.WRE.SOCK.INS.13 25MM	1
4425 13 1	1/4"HEX.WRE.SOCK.INS.13 50MM	1
4425 14	1/4"HEX.WRE.SOCK.INS.14 25MM	1

Hex socket wrench insert

1/4" ECO

- matt chrome-plated

Version:

- long
- short



Article No.	Article Description	QTY
4425N 4	1/4"HEX SO.INS.SW 4 25MM ECO	1
4425N 4 1	1/4"HEX SO.INS.SW 4 50MM ECO	1
4425N 45	1/4"HEX SO.INS.SW4.5 25MM ECO	1
4425N 5	1/4"HEX SO.INS.SW 5 25MM ECO	1
4425N 5 1	1/4"HEX SO.INS.SW 5 50MM ECO	1
4425N 55	1/4"HEX SO.INS.SW5.5 25MM ECO	1
4425N 6	1/4"HEX SO.INS.SW 6 25MM ECO	1
4425N 6 1	1/4"HEX SO.INS.SW 6 50MM ECO	1
4425N 7	1/4"HEX SO.INS.SW 7 25MM ECO	1
4425N 7 1	1/4"HEX SO.INS.SW 7 50MM ECO	1
4425N 8	1/4"HEX SO.INS.SW 8 25MM ECO	1
4425N 8 1	1/4"HEX SO.INS.SW 8 50MM ECO	1
4425N 9	1/4"HEX SO.INS.SW 9 25MM ECO	1
4425N 9 1	1/4"HEX SO.INS.SW 9 50MM ECO	1
4425N 10	1/4"HEX SO.INS.SW10 25MM ECO	1
4425N 10 1	1/4"HEX SO.INS.SW10 50MM ECO	1
4425N 11	1/4"HEX SO.INS.SW11 25MM ECO	1
4425N 11 1	1/4"HEX SO.INS.SW11 50MM ECO	1
4425N 12	1/4"HEX SO.INS.SW12 25MM ECO	1
4425N 12 1	1/4"HEX SO.INS.SW12 50MM ECO	1
4425N 13	1/4"HEX SO.INS.SW13 25MM ECO	1
4425N 13 1	1/4"HEX SO.INS.SW13 50MM ECO	1
4425N 14	1/4"HEX SO.INS.SW14 25MM ECO	1

Hex Socket Wrench Insert

1/4" **ECO**



Article No.	Article Description	QTY
4425 4 2	1/4"HEX SOCK.INS.MC SW 4 25MM	1
4425 7 3	1/4"HEX SOCK.INS.MC SW 7 50MM	1
4425 8 3	1/4"HEX SOCK.INS.MC SW 8 50MM	1

Hex Socket Wrench Insert

3/8" **FÖRCH*******



Article No.	Article Description	QTY
4426 8 50	3/8"HEX SOCK.INS.SW 8 29MM 5*	1 z
4426 9 50	3/8"HEX SOCK.INS. SW 9 29MM 5*	1 z
4426 10 50	3/8"HEX SOCK.INS. SW10 29MM 5*	1 z
4426 11 50	3/8"HEX SOCK.INS. SW11 29MM 5*	1 z
4426 12 50	3/8"HEX SOCK.INS.SW12 29MM 5*	1 z
4426 13 50	3/8"HEX SOCK.INS. SW13 29MM 5*	1 z
4426 14 50	3/8"HEX SOCK.INS. SW14 29MM 5*	1 z
4426 15 50	3/8"HEX SOCK.INS. SW15 29MM 5*	1 z
4426 16 50	3/8"HEX SOCK.INS. SW16 30MM 5*	1 z
4426 17 50	3/8"HEX SOCK.INS. SW17 30MM 5*	1 z
4426 18 50	3/8"HEX SOCK.INS. SW18 30MM 5*	1 z
4426 19 50	3/8"HEX SOCK.INS. SW19 30MM 5*	1 z
4426 21 50	3/8"HEX SOCK.INS. SW21 30MM 5*	1 z
4426 22 50	3/8"HEX SOCK.INS. SW22 30MM 5*	1 z
4426 24 50	3/8"HEX SOCK.INS. SW24 32MM 5*	1 z

Hex Socket Wrench Insert

3/8"

Version:

- Long
- Short



Article No.	Article Description	QTY
4426 8	3/8"HEX.SOCK.WR.INS.SW 8 27MM	1
4426 9	3/8"HEX.SOCK.WR.INS.SW 9 27MM	1
4426 10	3/8"HEX.SOCK.WR.INS.SW10 27MM	1
4426 11	3/8"HEX.SOCK.WR.INS.SW11 27MM	1
4426 12	3/8"HEX.SOCK.WR.INS.SW12 30MM	1
4426 13	3/8"HEX.SOCK.WR.INS.SW13 30MM	1
4426 14	3/8"HEX.SOCK.WR.INS.SW14 30MM	1
4426 15	3/8"HEX.SOCK.WR.INS.SW15 30MM	1
4426 16	3/8"HEX.SOCK.WR.INS.SW16 30MM	1
4426 17	3/8"HEX.SOCK.WR.INS.SW17 30MM	1
4426 18	3/8"HEX.SOCK.WR.INS.SW18 30MM	1
4426 19	3/8"HEX.SOCK.WR.INS.SW19 30MM	1
4426 21	3/8"HEX.SOCK.WR.INS.SW21 30MM	1
4426 22	3/8"HEX.SOCK.WR.INS.SW22 30MM	1
4426 24	3/8"HEX.SOCK.WR.INS.SW24 30MM	1
4426 8 1	3/8"HEX.SOCK.WR.INS.SW 8 62MM	1
4426 9 1	3/8"HEX.SOCK.WR.INS.SW 9 62MM	1
4426 10 1	3/8"HEX.SOCK.WR.INS.SW10 62MM	1
4426 11 1	3/8"HEX.SOCK.WR.INS.SW11 62MM	1
4426 12 1	3/8"HEX.SOCK.WR.INS.SW12 62MM	1
4426 13 1	3/8"HEX.SOCK.WR.INS.SW13 62MM	1
4426 14 1	3/8"HEX.SOCK.WR.INS.SW14 62MM	1
4426 15 1	3/8"HEX.SOCK.WR.INS.SW15 62MM	1
4426 16 1	3/8"HEX.SOCK.WR.INS.SW16 62MM	1
4426 17 1	3/8"HEX.SOCK.WR.INS.SW17 62MM	1
4426 18 1	3/8"HEX.SOCK.WR.INS.SW18 62MM	1
4426 19 1	3/8"HEX.SOCK.WR.INS.SW19 62MM	1

Hex socket insert

3/8" 120mm **FÖRCH*******

Design:

- Through hole
- 120 mm long



Article No.	Article Description	QTY
4426 8 120 50	3/8"6KT-ST-S-EINS.SW8 120MM 5*	1
4426 10 120 50	3/8"6KT-ST-S-EIN.SW10 120MM 5*	1
4426 12 120 50	3/8"6KT-ST-S-EIN.SW12 120MM 5*	1
4426 13 120 50	3/8"6KT-ST-S-EIN.SW13 120MM 5*	1
4426 14 120 50	3/8"6KT-ST-S-EIN.SW14 120MM 5*	1

Hex Socket Wrench Insert

3/8" **FÖRCH*******

- VAROsoft tool deposit Art.-No. 9026 821
- Through hole
- Length: 120 mm



Article No.	Article Description	QTY
4426V 005	HEX SOCK.WRENCH 3/8"120 5*	1

Content 1-each:

- Socket Wrench Insert 3/8" SW 8/10/12/13/14

Hex socket wrench insert

3/8" **ECO**

- matt chrome-plated

Version:

- long
- short



Article No.	Article Description	QTY
4426N 10	3/8"HEX SO.WR.IN10 27MM ECO	1
4426N 10 1	3/8"HEX SO.WR.IN10 62MM ECO	1
4426N 11	3/8"HEX SO.WR.IN11 27MM ECO	1
4426N 11 1	3/8"HEX SO.WR.IN11 62MM ECO	1
4426N 12	3/8"HEX SO.WR.IN12 27MM ECO	1
4426N 12 1	3/8"HEX SO.WR.IN12 62MM ECO	1
4426N 13	3/8"HEX SO.WR.IN13 27MM ECO	1
4426N 13 1	3/8"HEX SO.WR.IN13 62MM ECO	1
4426N 14	3/8"HEX SO.WR.IN14 27MM ECO	1
4426N 14 1	3/8"HEX SO.WR.IN14 62MM ECO	1
4426N 15	3/8"HEX SO.WR.IN15 27MM ECO	1
4426N 15 1	3/8"HEX SO.WR.IN15 62MM ECO	1
4426N 16	3/8"HEX SO.WR.IN16 27MM ECO	1
4426N 17	3/8"HEX SO.WR.IN17 27MM ECO	1
4426N 18	3/8"HEX SO.WR.IN18 27MM ECO	1
4426N 19	3/8"HEX SO.WR.IN19 27MM ECO	1

Hex Socket Wrench Insert

1/2"

Version:

- Matt



Article No.	Article Description	QTY
4427 10 50	1/2"HEX SO.WR.INS.5* SW10 37MM	1 z
4427 11 50	1/2"HEX SO.WR.INS.5* SW11 37MM	1 z
4427 12 50	1/2"HEX SO.WR.INS.5* SW12 37MM	1 z
4427 13 50	1/2"HEX SO.WR.INS.5* SW13 37MM	1 z
4427 14 50	1/2"HEX SO.WR.INS.5* SW14 37MM	1 z
4427 15 50	1/2"HEX SO.WR.INS.5* SW15 37MM	1 z
4427 16 50	1/2"HEX SO.WR.INS.5* SW16 37MM	1 z
4427 17 50	1/2"HEX SO.WR.INS.5* SW17 37MM	1 z
4427 18 50	1/2"HEX SO.WR.INS.5* SW18 37MM	1 z
4427 19 50	1/2"HEX SO.WR.INS.5* SW19 37MM	1 z
4427 20 50	1/2"HEX SO.WR.INS.5* SW20 37MM	1 z
4427 21 50	1/2"HEX SO.WR.INS.5* SW21 37MM	1 z
4427 22 50	1/2"HEX SO.WR.INS.5* SW22 37MM	1 z
4427 24 50	1/2"HEX SO.WR.INS.5* SW24 37MM	1 z
4427 27 50	1/2"HEX SO.WR.INS.5* SW27 40MM	1 z
4427 30 50	1/2"HEX SO.WR.INS.5* SW30 42MM	1 z
4427 32 50	1/2"HEX SO.WR.INS.5* SW32 42MM	1 z

Hex Socket Wrench Insert

1/2"

Version:

- Long
- Short



Article No.	Article Description	QTY
4427 8	1/2"HEX SOCK.WRE.INS.SW 8 36MM	1
4427 9	1/2"HEX SOCK.WRE.INS.SW 9 37MM	1
4427 10	1/2"HEX SOCK.WRE.INS.SW10 37MM	1
4427 10 1	1/2"HEX SOCK.WRE.INS.SW10 76MM	1
4427 11	1/2"HEX SOCK.WRE.INS.SW11 37MM	1
4427 11 1	1/2"HEX SOCK.WRE.INS.SW11 76MM	1
4427 12	1/2"HEX SOCK.WRE.INS.SW12 37MM	1
4427 12 1	1/2"HEX SOCK.WRE.INS.SW12 76MM	1
4427 13	1/2"HEX SOCK.WRE.INS.SW13 37MM	1
4427 13 1	1/2"HEX SOCK.WRE.INS.SW13 76MM	1
4427 14	1/2"HEX SOCK.WRE.INS.SW14 37MM	1
4427 14 1	1/2"HEX SOCK.WRE.INS.SW14 76MM	1
4427 15	1/2"HEX SOCK.WRE.INS.SW15 37MM	1
4427 15 1	1/2"HEX SOCK.WRE.INS.SW15 76MM	1
4427 16	1/2"HEX SOCK.WRE.INS.SW16 37MM	1
4427 16 1	1/2"HEX SOCK.WRE.INS.SW16 76MM	1
4427 17	1/2"HEX SOCK.WRE.INS.SW17 37MM	1
4427 17 1	1/2"HEX SOCK.WRE.INS.SW17 76MM	1
4427 18	1/2"HEX SOCK.WRE.INS.SW18 37MM	1
4427 18 1	1/2"HEX SOCK.WRE.INS.SW18 76MM	1
4427 19	1/2"HEX SOCK.WRE.INS.SW19 38MM	1
4427 19 1	1/2"HEX SOCK.WRE.INS.SW19 76MM	1
4427 20	1/2"HEX SOCK.WRE.INS.SW20 38MM	1
4427 20 1	1/2"HEX SOCK.WRE.INS.SW20 76MM	1
4427 21	1/2"HEX SOCK.WRE.INS.SW21 38MM	1
4427 21 1	1/2"HEX SOCK.WRE.INS.SW21 76MM	1
4427 22	1/2"HEX.WRE.SOCK.INS.SW22 40MM	1
4427 22 1	1/2"HEX.WRE.SOCK.INS.SW22 76MM	1
4427 23	1/2"HEX.WRE.SOCK.INS.SW23 40MM	1
4427 24	1/2"HEX.WRE.SOCK.INS.SW24 42MM	1
4427 24 1	1/2"HEX.WRE.SOCK.INS.SW24 76MM	1
4427 26 1	1/2"HEX.WRE.SOCK.INS.SW26 76MM	1
4427 27	1/2"HEX.WRE.SOCK.INS.SW27 43MM	1
4427 27 1	1/2"HEX.WRE.SOCK.INS.SW27 76MM	1
4427 28	1/2"HEX.WRE.SOCK.INS.SW28 43MM	1
4427 30	1/2"HEX.WRE.SOCK.INS.SW30 46MM	1
4427 30 1	1/2"HEX.WRE.SOCK.INS.SW30 76MM	1
4427 32	1/2"HEX.WRE.SOCK.INS.SW32 46MM	1
4427 32 1	1/2"HEX.WRE.SOCK.INS.SW32 76MM	1
4427 34	1/2"HEX.WRE.SOCK.INS.SW34 43MM	1
4427 36	1/2"HEX.WRE.SOCK.INS.SW36 47MM	1

Hex socket wrench insert

1/2" **ECO**

- matt chrome-plated

Version:

- long
- short



Article No.	Article Description	QTY
4427N 10	1/2"HEX WR.INS.SW10 38MM ECO	1
4427N 11	1/2"HEX WR.INS.SW11 38MM ECO	1
4427N 12	1/2"HEX WR.INS.SW12 38MM ECO	1
4427N 13	1/2"HEX WR.INS.SW13 38MM ECO	1
4427N 14	1/2"HEX WR.INS.SW14 38MM ECO	1
4427N 14 1	1/2"HEX WR.INS.SW14 77MM ECO	1
4427N 15	1/2"HEX WR.INS.SW15 38MM ECO	1
4427N 15 1	1/2"HEX WR.INS.SW15 77MM ECO	1
4427N 16	1/2"HEX WR.INS.SW16 38MM ECO	1
4427N 16 1	1/2"HEX WR.INS.SW16 77MM ECO	1
4427N 17	1/2"HEX WR.INS.SW17 38MM ECO	1
4427N 17 1	1/2"HEX WR.INS.SW17 77MM ECO	1
4427N 18	1/2"HEX WR.INS.SW18 38MM ECO	1
4427N 18 1	1/2"HEX WR.INS.SW18 77MM ECO	1
4427N 19	1/2"HEX WR.INS.SW19 38MM ECO	1
4427N 19 1	1/2"HEX WR.INS.SW19 77MM ECO	1
4427N 20	1/2"HEX WR.INS.SW20 38MM ECO	1
4427N 21	1/2"HEX WR.INS.SW21 38MM ECO	1
4427N 22	1/2"HEX WR.INS.SW22 38MM ECO	1
4427N 22 1	1/2"HEX WR.INS.SW22 77MM ECO	1
4427N 23	1/2"HEX WR.INS.SW23 38MM ECO	1
4427N 24	1/2"HEX WR.INS.SW24 38MM ECO	1
4427N 27	1/2"HEX WR.INS.SW27 42MM ECO	1
4427N 30	1/2"HEX WR.INS.SW30 44MM ECO	1
4427N 32	1/2"HEX WR.INS.SW32 44MM ECO	1

Hex Socket Wrench Insert 1/2"

- In VAROsoft tool deposit Art. No. 9026 102



Article No.	Article Description	QTY
4427V 010	VS-HEX SOCK.WRENCH INSERT 1/2"	1

Included in set: • 1x Socket wrench insert 1/2" SW 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

Hex Socket Wrench Insert 3/4"



Article No.	Article Description	QTY
4428 19	3/4"HEX.SOCK.WR.INS.SW19 50MM	1
4428 21	3/4"HEX.SOCK.WR.INS.SW21 50MM	1
4428 22	3/4"HEX.SOCK.WR.INS.SW22 50MM	1
4428 23	3/4"HEX.SOCK.WR.INS.SW23 50MM	1
4428 24	3/4"HEX.SOCK.WR.INS.SW24 50MM	1
4428 26	3/4"HEX.SOCK.WR.INS.SW26 50MM	1
4428 27	3/4"HEX.SOCK.WR.INS.SW27 53MM	1
4428 29	3/4"HEX.SOCK.WR.INS.SW29 50MM	1
4428 30	3/4"HEX.SOCK.WR.INS.SW30 55MM	1
4428 32	3/4"HEX.SOCK.WR.INS.SW32 57MM	1
4428 34	3/4"HEX.SOCK.WR.INS.SW34 57MM	1
4428 35	3/4"HEX.SOCK.WR.INS.SW35 58MM	1
4428 36	3/4"HEX.SOCK.WR.INS.SW36 59MM	1
4428 38	3/4"HEX.SOCK.WR.INS.SW38 59MM	1
4428 41	3/4"HEX.SOCK.WR.INS.SW41 62MM	1
4428 46	3/4"HEX.SOCK.WR.INS.SW46 68MM	1
4428 50	3/4"HEX.SOCK.WR.INS.SW50 68MM	1
4428 55	3/4"HEX.SOCK.WR.INS.SW55 72MM	1
4428 60	3/4"HEX.SOCK.WR.INS.SW60 78MM	1

Hex Socket Wrench Insert 1/2" Long

Art.-No. 4427V 007:

- In VAROsoft tool deposit Art.-No. 9026 621

Art.-No. 4427V 015:

- In VAROsoft tool deposit Art.-No. 9026 68



4427V 007



4427V 015

Article No.	Article Description	QTY
4427V 007	VS SOCK.WR.SET HEX 1/2" 7PARTS	1
4427V 015	VS SOCK.WRENCH SET HEX 1/2" LG	1

Content Art.-No. 4427V 007:

- 1x AGR 4427 Socket wrench insert 1/2" SW 20/21/22/24/27/30/32

Content Art.-No. 4427V 015:

- 1x AGR 4427 Socket wrench insert 1/2" SW 10/11/12/13/14/15/16/17/18/19

Hex Socket Wrench Insert 1"



Article No.	Article Description	QTY
4434 1 36	1"HEX SOCK.WRE.INS.SW36 64MM	1
4434 1 38	1"HEX SOCK.WRE.INS.SW38 65MM	1
4434 1 41	1"HEX SOCK.WRE.INS.SW41 71MM	1
4434 1 46	1"HEX SOCK.WRE.INS.SW46 76MM	1
4434 1 50	1"HEX SOCK.WRE.INS.SW50 76MM	1
4434 1 54	1"HEX SOCK.WRE.INS.SW54 79MM	1
4434 1 55	1"HEX SOCK.WRE.INS.SW55 80MM	1
4434 1 58	1"HEX SOCK.WRE.INS.SW58 81MM	1
4434 1 60	1"HEX SOCK.WRE.INS.SW60 85MM	1
4434 1 63	1"HEX SOCK.WRE.INS.SW63 88MM	1
4434 1 65	1"HEX SOCK.WRE.INS.SW65 90MM	1
4434 1 67	1"HEX SOCK.WRE.INS.SW67 91MM	1
4434 1 70	1"HEX SOCK.WRE.INS.SW70 94MM	1
4434 1 71	1"HEX SOCK.WRE.INS.SW71 94MM	1
4434 1 75	1"HEX SOCK.WRE.INS.SW75 95MM	1
4434 1 77	1"HEX SOCK.WRE.INS.SW77 102MM	1
4434 1 80	1"HEX SOCK.WRE.INS.SW80 104MM	1

Socket Wrench Bihexagonal 3/8" FORCH *****

- long



Article No.	Article Description	QTY
4432 8 1 50	3/8SOCKET-WR 12BIHEXA 8 55MM5*	1
4432 9 1 50	3/8SOCKET-WR 12BIHEXA 9 55MM5*	1
4432 10 1 50	3/8SOCKET-WR 12BIHEXA10 55MM5*	1
4432 11 1 50	3/8SOCKET-WR 12BIHEXA11 55MM5*	1
4432 12 1 50	3/8SOCKET-WR 12BIHEXA12 55MM5*	1
4432 13 1 50	3/8SOCKET-WR 12BIHEXA13 55MM5*	1
4432 14 1 50	3/8SOCKET-WR 12BIHEXA14 55MM5*	1
4432 15 1 50	3/8SOCKET-WR 12BIHEXA15 55MM5*	1
4432 16 1 50	3/8SOCKET-WR 12BIHEXA16 55MM5*	1
4432 17 1 50	3/8SOCKET-WR 12BIHEXA17 55MM5*	1
4432 18 1 50	3/8SOCKET-WR 12BIHEXA18 55MM5*	1
4432 19 1 50	3/8SOCKET-WR 12BIHEXA19 55MM5*	1
4432 20 1 50	3/8SOCKET-WR 12BIHEXA20 55MM5*	1
4432 21 1 50	3/8SOCKET-WR 12BIHEXA21 55MM5*	1
4432 22 1 50	3/8SOCKET-WR 12BIHEXA22 55MM5*	1

Bi-hexagonal Socket Wrench Insert 3/8"

Type:

- Long
- Short



Article No.	Article Description	QTY
4432 8	3/8"BIHEX.SOCK.WR.INSE.8 26MM	1
4432 8 1	3/8"BIHEX.SOCK.WR.INSE.8 63MM	1
4432 9	3/8"BIHEX.SOCK.WR.INSE.9 26MM	1
4432 9 1	3/8"BIHEX.SOCK.WR.INSE.9 63MM	1
4432 10	3/8"BIHEX.SOCK.WR.INSE.10 26MM	1
4432 10 1	3/8"BIHEX.SOCK.WR.INSE.10 63MM	1
4432 11	3/8"BIHEX.SOCK.WR.INSE.11 26MM	1
4432 11 1	3/8"BIHEX.SOCK.WR.INSE.11 63MM	1
4432 12	3/8"BIHEX.SOCK.WR.INSE.12 26MM	1
4432 12 1	3/8"BIHEX.SOCK.WR.INSE.12 63MM	1
4432 13	3/8"BIHEX.SOCK.WR.INSE.13 26MM	1
4432 13 1	3/8"BIHEX.SOCK.WR.INSE.13 63MM	1
4432 14	3/8"BIHEX.SOCK.WR.INSE.12 27MM	1
4432 14 1	3/8"BIHEX.SOCK.WR.INSE.14 63MM	1
4432 15	3/8"BIHEX.SOCK.WR.INSE.15 28MM	1
4432 15 1	3/8"BIHEX.SOCK.WR.INSE.15 63MM	1
4432 16	3/8"BIHEX.SOCK.WR.INSE.16 28MM	1
4432 16 1	3/8"BIHEX.SOCK.WR.INSE.16 63MM	1
4432 17	3/8"BIHEX.SOCK.WR.INSE.17 29MM	1
4432 17 1	3/8"BIHEX.SOCK.WR.INSE.17 63MM	1
4432 18	3/8"BIHEX.SOCK.WR.INSE.18 30MM	1
4432 18 1	3/8"BIHEX.SOCK.WR.INSE.18 63MM	1
4432 19	3/8"BIHEX.SOCK.WR.INSE.19 30MM	1
4432 19 1	3/8"BIHEX.SOCK.WR.INSE.19 63MM	1

Bi-hexagonal Socket Wrench Insert 1/2"

Types:

- Long
- Short



Article No.	Article Description	QTY
4429 8	1/2"SOCK.WR.INS.BIHEXA.8 39MM	1
4429 9	1/2"SOCK.WR.INS.BIHEX.9 39MM	1
4429 10	1/2"SOCK.WR.INS.BIHEX.10 39MM	1
4429 10 1	1/2"SOCK.WR.INS.BIHEX.10 77MM	1
4429 11	1/2"SOCK.WR.INS.BIHEX.11 39MM	1
4429 11 1	1/2"SOCK.WR.INS.BIHEX.11 77MM	1
4429 12	1/2"SOCK.WR.INS.BIHEX.12 39MM	1
4429 12 1	1/2"SOCK.WR.INS.BIHEX.12 77MM	1
4429 13	1/2"SOCK.WR.INS.BIHEX.13 39MM	1
4429 13 1	1/2"SOCK.WR.INS.BIHEX.13 77MM	1
4429 14	1/2"SOCK.WR.INS.BIHEX.14 39MM	1
4429 14 1	1/2"SOCK.WR.INS.BIHEX.14 77MM	1
4429 15	1/2"SOCK.WR.INS.BIHEX.15 39MM	1
4429 15 1	1/2"SOCK.WR.INS.BIHEX.15 77MM	1
4429 16	1/2"SOCK.WR.INS.BIHEX.16 39MM	1
4429 16 1	1/2"SOCK.WR.INS.BIHEX.16 77MM	1
4429 17	1/2"SOCK.WR.INS.BIHEX.17 39MM	1
4429 17 1	1/2"SOCK.WR.INS.BIHEX.17 77MM	1
4429 18	1/2"SOCK.WR.INS.BIHEX.18 39MM	1
4429 18 1	1/2"SOCK.WR.INS.BIHEX.18 77MM	1
4429 19	1/2"SOCK.WR.INS.BIHEX.19 39MM	1
4429 19 1	1/2"SOCK.WR.INS.BIHEX.19 77MM	1
4429 20	1/2"SOCK.WR.INS.BIHEX.20 39MM	1
4429 20 1	1/2"SOCK.WR.INS.BIHEX.20 77MM	1
4429 21	1/2"SOCK.WR.INS.BIHEX.21 39MM	1
4429 21 1	1/2"SOCK.WR.INS.BIHEX.21 77MM	1
4429 22	1/2"SOCK.WR.INS.BIHEX.22 39MM	1
4429 22 1	1/2"SOCK.WR.INS.BIHEX.22 77MM	1
4429 24	1/2"SOCK.WR.INS.BIHEX.24 43MM	1
4429 24 1	1/2"SOCK.WR.INS.BIHEX.24 77MM	1
4429 26 1	1/2"SOCK.WR.INS.BIHEX.26 77MM	1
4429 27	1/2"SOCK.WR.INS.BIHEX.27 43MM	1
4429 27 1	1/2"SOCK.WR.INS.BIHEX.27 77MM	1
4429 30	1/2"SOCK.WR.INS.BIHEX.30 43MM	1
4429 30 1	1/2"SOCK.WR.INS.BIHEX.30 77MM	1
4429 32	1/2"SOCK.WR.INS.BIHEX.32 43MM	1
4429 32 1	1/2"SOCK.WR.INS.BIHEX.32 77MM	1
4429 34 1	1/2"SOCK.WR.INS.BIHEX.34 77MM	1
4429 36	1/2"SOCK.WR.INS.BIHEX.36 47MM	1
4429 36 1	1/2"SOCK.WR.INS.BIHEX.36 77MM	1
4429 38	1/2"SOCK.WR.INS.BIHEX38 47MM	e 5

Bihexagonal Socket Wrench Insert 1/2“

- In VAROsoft tool deposit Art. No. 9026 102

Article No.	Article Description	QTY
4429V 010	VS-SOCK.WR.SET BIHEXAGONAL1/2"	1

Included in set:

- 1x Socket wrench insert 1/2" SW 10, 11, 12, 13, 14, 15, 16, 17, 18, 19



Wrench Socket Insert Set of 12-point,1/2”long

Art.-No. 4429V 007:

- in VAROsoft system insert art.-no. 9026 621

Art.-No. 4429V 015:

- in VAROsoft system insert art.-no. 9026 68

Article No.	Article Description	QTY
4429V 007	WR.SO.INS.SET 12PT1/2" 7PARTS	1
4429V 015	WR.SO.INS.SET 12PT1/2" 10PARTS	1

Contents Art.-No. 4429V 007:

- 1x each AGR 4429 socket insert wrench size 1/2" SW 20/21/22/24/27/30/32

Contents Art.-No. 4429V 015:

- 1x each AGR 4429 socket insert wrench size 1/2" SW 10/11/12/13/14/15/16/17/18/19



4429V 007



4429V 015

Socket Wrench Insert TX External 1/4"



Article No.	Article Description	QTY
4440 4	1/4" TX SOCK.WR.INS.E 4 22MM	1
4440 5	1/4" TX SOCK.WR.INS.E 5 22MM	1
4440 6	1/4" TX SOCK.WR.INS.E 6 22MM	1
4440 7	1/4" TX SOCK.WR.INS.E 7 22MM	1
4440 8	1/4" TX SOCK.WR.INS.E 8 22MM	1
4440 10	1/4" TX SOCK.WR.INS.E10 22MM	1

Socket Wrench TX Outer 3/8" **FÖRCH*******



Article No.	Article Description	QTY
4441 4 50	3/8"TX SOCK.WR.INS.E4 26MM 5*	1
4441 5 50	3/8"TX-SOCK.WR INS.E5 26MM 5*	1
4441 6 50	3/8"TX SOCK.WR.INS.E6 26MM 5*	1
4441 7 50	3/8"TX-SOCK.WR INS.E7 26MM 5*	1
4441 8 50	3/8"TX-SOCK.WR INS.E8 26MM 5*	1
4441 10 50	3/8"TX-SOCK.WR INS.E10 26MM 5*	1
4441 11 50	3/8"TX-SOCK.WR INS.E11 26MM 5*	1
4441 12 50	3/8"TX-SOCK.WR INS.E12 26MM 5*	1
4441 14 50	3/8"TX-SOCK.WR INS.E14 26MM 5*	1
4441 16 50	3/8"TX-SOCK.WR INS.E16 26MM 5*	1

Socket wrench insert TX external 1/4" **ECO**

- matt chrome-plated



Article No.	Article Description	QTY
4440N 4	1/4"TX SOCK.WR.INS.E4 25MM ECO	1
4440N 5	1/4"TX SOCK.WR.INS.E5 25MM ECO	1
4440N 6	1/4"TX SOCK.WR.INS.E6 25MM ECO	1
4440N 7	1/4"TX SOCK.WR.INS.E7 25MM ECO	1
4440N 8	1/4"TX SOCK.WR.INS.E8 25MM ECO	1

Socket Wrench Insert TX External 3/8"



Article No.	Article Description	QTY
4441 5	3/8" TX SOCK.WR.INS.E 5 26MM	1
4441 6	3/8" TX SOCK.WR.INS.E 6 26MM	1
4441 7	3/8" TX SOCK.WR.INS.E 7 26MM	1
4441 8	3/8" TX SOCK.WR.INS.E 8 26MM	1
4441 10	3/8" TX SOCK.WR.INS.E10 26MM	1
4441 11	3/8" TX SOCK.WR.INS.E11 26MM	1
4441 12	3/8" TX SOCK.WR.INS.E12 26MM	1
4441 14	3/8" TX SOCK.WR.INS.E14 26MM	1
4441 16	3/8" TX SOCK.WR.INS.E16 26MM	1

Socket wrench insert TX external 3/8" **ECO**

- matt chrome-plated



Article No.	Article Description	QTY
4441N 10	3/8"TX SOCK.WR.INS.E10 28MMECO	1
4441N 11	3/8"TX SOCK.WR.INS.E11 28MMECO	1
4441N 12	3/8"TX SOCK.WR.INS.E12 28MMECO	1
4441N 14	3/8"TX SOCK.WR.INS.E14 28MMECO	1
4441N 16	3/8"TX SOCK.WR.INS.E16 28MMECO	1
4441N 18	3/8"TX SOCK.WR.INS.E18 28MMECO	1

Socket Wrench Insert TX 1/2” External



Article No.	Article Description	QTY
4442 10	1/2"TX-SOCK.WR.BIT E 10 36MM	1
4442 11	1/2"TX-SOCK.WR.BIT E 11 37MM	1
4442 12	1/2"TX-SOCK.WR.BIT E 12 37MM	1
4442 14	1/2"TX-SOCK.WR.BIT E 14 37MM	1
4442 16	1/2"TX-SOCK.WR.BIT E 16 37MM	1
4442 18	1/2"TX-SOCK.WR.BIT E 18 37MM	1
4442 20	1/2"TX-SOCK.WR.BIT E 20 37MM	1
4442 24	1/2"TX-SOCK.WR.BIT E 24 40MM	1

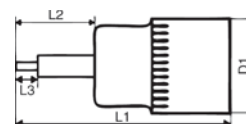
Socket wrench insert TX external 1/2“ **ECO**

- matt chrome-plated



Article No.	Article Description	QTY
4442N 20	1/2"TX SOCK.WR.IN.E20 38MM ECO	1
4442N 24	1/2"TX SOCK.WR.IN.E24 38MM ECO	1

Screwdriver Bit TX Internal 1/4" **FÖRCH*******

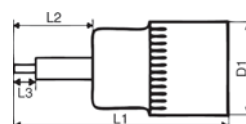


Article No.	Article Description	QTY
4455 8 50	1/4"TX-SCREWDRIV.BIT 8 28MM 5*	1
4455 9 50	1/4"TX-SCREWDRIV.BIT 9 28MM 5*	1
4455 10 50	1/4"TX-SCREWDRIV.BIT10 28MM 5*	1
4455 15 50	1/4"TX-SCREWDRIV.BIT15 28MM 5*	1
4455 20 50	1/4"TX-SCREWDRIV.BIT20 28MM 5*	1
4455 25 50	1/4"TX-SCREWDRIV.BIT25 28MM 5*	1
4455 27 50	1/4"TX-SCREWDRIV.BIT27 28MM 5*	1
4455 30 50	1/4"TX-SCREWDRIV.BIT30 28MM 5*	1
4455 40 50	1/4"TX-SCREWDRIV.BIT40 28MM 5*	1

Technical Data

Art.-No.	TX (mm)	L1 mm	L2 mm	L3 mm	D1 mm
4455 8 50	8 (2.31)	28	10	3,5	12
4455 9 50	9 (2.50)	28	10	3,5	12
4455 10 50	10 (2.74)	28	10	3,8	12
4455 15 50	15 (3.27)	28	10	4	12
4455 20 50	20 (3.85)	28	10	4	12
4455 25 50	25 (4.43)	28	10	4,5	12
4455 27 50	27 (4.99)	28	10	4,5	12
4455 30 50	30 (5.52)	28	10	5	12
4455 40 50	40 (6.65)	28	10	5	12

Screwdriver bit TX inside 1/4" **FÖRCH*******



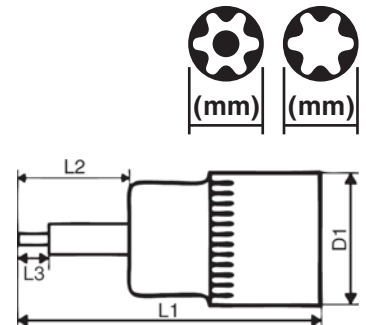
Article No.	Article Description	QTY
4455 10 28 50	1/4"TX-SCREWDRIV.BIT10 28MM 5*	1 z
4455 15 28 50	1/4"TX-SCREWDRIV.BIT15 28MM 5*	1 z
4455 20 28 50	1/4"TX-SCREWDRIV.BIT20 28MM 5*	1 z
4455 25 28 50	1/4"TX-SCREWDRIV.BIT25 28MM 5*	1 z
4455 27 28 50	1/4"TX-SCREWDRIV.BIT27 28MM 5*	1 z
4455 30 28 50	1/4"TX-SCREWDRIV.BIT30 28MM 5*	1 z
4455 40 28 50	1/4"TX-SCREWDRIV.BIT40 28MM 5*	1 z

Technical Data

Art.-No.	TX (mm)	L1 mm	L2 mm	L3 mm	D1 mm
4455 10 28 50	10 (2.74)	28	10	3,5	12
4455 15 28 50	15 (3.27)	28	10	4	12
4455 20 28 50	20 (3.86)	28	10	4	12
4455 25 28 50	25 (4.43)	28	10	4,5	12
4455 27 28 50	27 (4.99)	28	10	4,5	12
4455 30 28 50	30 (5.52)	28	10	5	12
4455 40 28 50	40 (6.65)	28	10	5	12

Screwdriver Bit TX Internal 1/4"

- KB = Drilled head



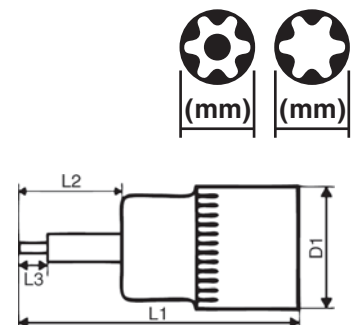
Article No.	Article Description	QTY
4455 10 32	1/4"TX-SCREWDRIV.BIT KB10 32MM	1
4455 10 32 1	1/4"TX-SCREWDRIVER BIT 10 32MM	1
4455 15 32	1/4"TX-SCREWDRIV.BIT KB15 32MM	1
4455 15 32 1	1/4"TX-SCREWDRIVER BIT 15 32MM	1
4455 20 32	1/4"TX-SCREWDRIV.BIT KB20 32MM	1
4455 20 32 1	1/4"TX-SCREWDRIVER BIT 20 32MM	1
4455 25 32	1/4"TX-SCREWDRIV.BIT KB25 32MM	1
4455 25 32 1	1/4"TX-SCREWDRIVER BIT 25 32MM	1
4455 27 32	1/4"TX-SCREWDRIV.BIT KB27 32MM	1
4455 27 32 1	1/4"TX-SCREWDRIVER BIT 27 32MM	1
4455 30 32	1/4"TX-SCREWDRIV.BIT KB30 32MM	1
4455 30 32 1	1/4"TX-SCREWDRIVER BIT 30 32MM	1
4455 35 32 1	1/4"TX-SCREWDRIV.BIT35 28MM	1
4455 40 32	1/4"TX-SCREWDRIV.BIT KB40 32MM	1
4455 40 32 1	1/4"TX-SCREWDRIVER BIT 40 32MM	1

Technical Data

TX mm	L1 mm	L2 mm	L3 mm	D1 mm
10 (2.74)	32	12.5	3.5	12
10 (2.74)	32	12.5	3.5	12
15 (3.27)	32	12.5	4	12
15 (3.27)	32	12.5	4	12
20 (3.86)	32	12.5	4	12
20 (3.86)	32	12.5	4	12
25 (4.43)	32	12.5	5	12
25 (4.43)	32	12.5	5	12
27 (4.99)	32	12.5	5	12
27 (4.99)	32	12.5	5	12
30 (5.52)	32	12.5	5	12
30 (5.52)	32	12.5	5	12
35 (5.99)	38	18.0	6	12
40 (6.65)	32	12.5	5	12
40 (6.65)	32	12.5	5	12

Screwdriver insert TX inner 1/4" **ECO**

- KB = head drilling
- matt chrome-plated



Article No.	Article Description	QTY
4455N 8 37	1/4"TXSCREWD.INS.KB 8 37MM ECO	1
4455N 8 37 1	1/4"TXSCREWD.INSN. 8 37MM ECO	1
4455N 9 37	1/4"TXSCREWD.INS.KB 9 37MM ECO	1
4455N 9 37 1	1/4"TXSCREWD.INSN. 9 37MM ECO	1
4455N 10 37	1/4"TXSCREWD.INS.KB10 37MM ECO	1
4455N 10 37 1	1/4"TXSCREWD.INSN. 10 37MM ECO	1
4455N 15 37	1/4"TXSCREWD.INS.KB15 37MM ECO	1
4455N 15 37 1	1/4"TXSCREWD.INSN. 15 37MM ECO	1
4455N 20 37	1/4"TXSCREWD.INS.KB20 37MM ECO	1
4455N 20 37 1	1/4"TXSCREWD.INSN. 20 37MM ECO	1
4455N 25 37	1/4"TXSCREWD.INS.KB25 37MM ECO	1
4455N 25 37 1	1/4"TXSCREWD.INSN. 25 37MM ECO	1
4455N 27 37	1/4"TXSCREWD.INS.KB27 37MM ECO	1
4455N 27 37 1	1/4"TXSCREWD.INSN. 27 37MM ECO	1
4455N 30 37	1/4"TXSCREWD.INS.KB30 37MM ECO	1
4455N 30 37 1	1/4"TXSCREWD.INSN. 30 37MM ECO	1
4455N 40 37 1	1/4"TXSCREWD.INSN. 40 37MM ECO	1

Technical Data

TX mm	L1 mm	L2 mm	L3 mm	D1 mm
8 (2,31)	37	18	3,5	11,9
8 (2,31)	37	18	3,5	11,9
9 (2,50)	37	18	3,5	11,9
9 (2,50)	37	18	3,5	11,9
10 (2,74)	37	18	3,5	11,9
10 (2,74)	37	18	3,5	11,9
15 (3,27)	37	18	4,0	11,9
15 (3,27)	37	18	4,0	11,9
20 (3,86)	37	18	4,0	11,9
20 (3,86)	37	18	4,0	11,9
25 (4,43)	37	18	5,0	11,9
25 (4,43)	37	18	5,0	11,9
27 (4,99)	37	18	5,0	11,9
27 (4,99)	37	18	5,0	11,9
30 (5,52)	37	18	5,0	11,9
30 (5,52)	37	18	5,0	11,9
40 (6,65)	37	18	5,0	11,9

Socket set inner TX 1/2", 14 pcs



Article No.	Article Description	QTY
4457V 014 50	1/2"SOCKET SET INNER,14PCS 5*	1

Scope of delivery:

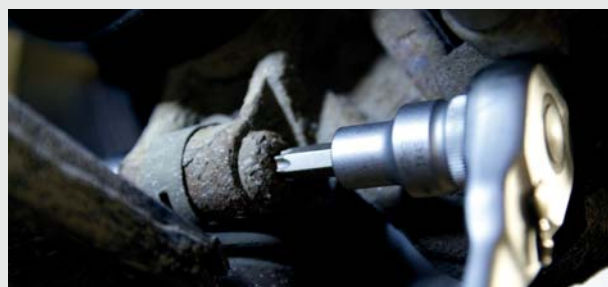
- Art.-No. 4457 20 50
- Art.-No. 4457 25 50
- Art.-No. 4457 27 50
- Art.-No. 4457 30 50
- Art.-No. 4457 40 50
- Art.-No. 4457 40 140 50
- Art.-No. 4457 45 50

Your Advantage / Benefit

- very long service life due to 10 % higher
- fracture resistance due to optimised hardening
- quality standard for the industry

Application

- work on all vehicle areas such as engine and chassis parts
- use in maintenance workshops, crafts, trades and industry



- Art.-No. 4457 45 140 50
- Art.-No. 4457 50 50
- Art.-No. 4457 50 140 50
- Art.-No. 4457 55 50
- Art.-No. 4457 55 140 50
- Art.-No. 4457 60 50
- Art.-No. 4457 60 140 50

Related Products

- Fine Knitted Gloves
Art.-No. 5405 118 8 - 11



- Articulation Piece **FÖRCH**
Art.-No. 4407 12 50



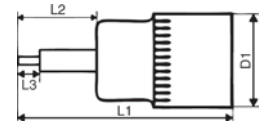
- Reversible Ratchet **FÖRCH**
Art.-No. 4401 12 32 50



- Square Extension **FÖRCH**
Art.-No. 4420 250 50



Screw Driver Insert TX Inner 3/8" **FÖRCH*******

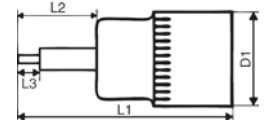


Article No.	Article Description	QTY
4456 10 50	3/8"TX-SCR.DR.INS.10 50MM 5*	1
4456 15 50	3/8"TX-SCR.DR.INS.15 50MM 5*	1
4456 20 50	3/8"TX-SCR.DR.INS.20 50MM 5*	1
4456 25 50	3/8"TX-SCR.DR.INS.25 50MM 5*	1
4456 27 50	3/8"TX-SCR.DR.INS.27 50MM 5*	1
4456 30 50	3/8"TX-SCR.DR.INS.30 50MM 5*	1
4456 40 50	3/8"TX-SCR.DR.INS.40 50MM 5*	1
4456 45 50	3/8"TX-SCR.DR.INS.45 50MM 5*	1
4456 50 50	3/8"TX-SCR.DR.INS.50 50MM 5*	1
4456 55 50	3/8"TX-SCR.DR.INS.55 50MM 5*	1

Technical Data

Art.-No.	TX (mm)	L1 mm	L2 mm	L3 mm	D1 mm
4456 10 50	10 (2.74)	50	24	14	18
4456 15 50	15 (3.27)	50	24	14	18
4456 20 50	20 (3.86)	50	24	14	18
4456 25 50	25 (4.43)	50	24	14	18
4456 27 50	27 (4.99)	50	24	14	18
4456 30 50	30 (5.52)	50	24	14	18
4456 40 50	40 (6.65)	50	24	-	18
4456 45 50	45 (7.82)	50	24	-	18
4456 50 50	50 (8.83)	50	24	-	18
4456 55 50	55 (11.22)	50	24	-	18

Screwdriver Bit TX Internal 3/8"

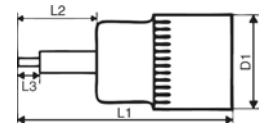


Article No.	Article Description	QTY
4456 10	3/8"TX SCREWDRIVER BIT 10 50MM	1
4456 15	3/8"TX SCREWDRIVER BIT 15 50MM	1
4456 20	3/8"TX SCREWDRIVER BIT 20 50MM	1
4456 25	3/8"TX SCREWDRIVER BIT 25 50MM	1
4456 27	3/8"TX SCREWDRIVER BIT 27 50MM	1
4456 30	3/8"TX SCREWDRIVER BIT 30 50MM	1
4456 40	3/8"TX SCREWDRIVER BIT 40 50MM	1
4456 45	3/8"TX SCREWDRIVER BIT 45 50MM	1
4456 50	3/8"TX SCREWDRIVER BIT 50 50MM	1
4456 55	3/8"TX SCREWDRIVER BIT 55 55MM	1

Technical Data

Art.-No.	TX (mm)	L1 mm	L2 mm	L3 mm	D1 mm
4456 10	10 (2.74)	48	22	8	18
4456 15	15 (3.27)	48	22	9	18
4456 20	20 (3.86)	48	22	9	18
4456 25	25 (4.43)	48	22	9	18
4456 27	27 (4.99)	48	22	9	18
4456 30	30 (5.52)	48	22	9	18
4456 40	40 (6.65)	48	22	-	18
4456 45	45 (7.82)	48	22	-	18
4456 50	50 (8.83)	48	22	-	18
4456 55	55 (11.22)	48	22	-	18

Screwdriver bit TX inside 1/2" **FÖRCH*******

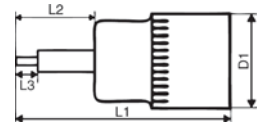


Article No.	Article Description	QTY
4457 20 50	1/2"TX SCREWDR. BIT 20 60MM 5*	1
4457 25 50	1/2"TX SCREWDR. BIT 25 60MM 5*	1
4457 27 50	1/2"TX SCREWDR. BIT 27 60MM 5*	1
4457 30 50	1/2"TX SCREWDR. BIT 30 60MM 5*	1
4457 40 50	1/2"TX SCREWDR. BIT 40 60MM 5*	1
4457 40 140 50	1/2"TX SCREWDR. BIT40 140MM 5*	1
4457 45 50	1/2"TX SCREWDR. BIT 45 60MM 5*	1
4457 45 140 50	1/2"TX SCREWDR. BIT45 140MM 5*	1
4457 50 50	1/2"TX SCREWDR. BIT 50 60MM 5*	1
4457 50 140 50	1/2"TX SCREWDR. BIT 50 140MM 5*	1
4457 55 50	1/2"TX-SCHR-DR.EIN.55 60MM 5*	1
4457 55 140 50	1/2"TX SCREWDR. BIT55 140MM 5*	1
4457 60 50	1/2" TX-SCR.DR.IN 60MM 5*	1

Technical Data

Art.-No.	TX (mm)	L1 mm	L2 mm	L3 mm	D1 mm
4457 20 50	20 (3.86)	60	24	14	22
4457 25 50	25 (4.43)	60	24	14	22
4457 27 50	27 (4.99)	60	24	14	22
4457 30 50	30 (5.52)	60	24	14	22
4457 40 50	40 (6.65)	60	24	-	22
4457 40 140 50	40 (6.65)	140	103	22	22
4457 45 50	45 (7.82)	60	24	14	22
4457 45 140 50	45 (7.82)	140	103	22	22
4457 50 50	50 (8.83)	60	24	-	22
4457 50 140 50	50 (8.83)	140	103	22	22
4457 55 50	55	60	24	-	22
4457 55 140 50	55 (11.22)	140	103	22	22

Screwdriver Bit TX Internal 1/2"



Article No.	Article Description	QTY
4457 20	1/2"TX SCREWDRIVER BIT 20 60MM	1
4457 25	1/2"TX SCREWDRIVER BIT 25 60MM	1
4457 27	1/2"TX SCREWDRIVER BIT 27 60MM	1
4457 30	1/2"TX SCREWDRIVER BIT 30 60MM	1
4457 40	1/2"TX SCREWDRIVER BIT 40 60MM	1
4457 40 140	1/2"TX SCREWDRIVER BIT40 140MM	1
4457 45	1/2"TX SCREWDRIVER BIT 45 60MM	1
4457 45 140	1/2"TX SCREWDRIVER BIT45 140MM	1
4457 50	1/2"TX SCREWDRIVER BIT 50 60MM	1
4457 50 140	1/2"TX SCREWDRIVER BIT50 140MM	1
4457 55	1/2"TX SCREWDRIVER BIT 55 60MM	1
4457 55 140	1/2"TX SCREWDRIVER BIT55 140MM	1
4457 60	1/2"TX SCREWDRIVER BIT 60 60MM	1

Technical Data

Art.-No.	TX (mm)	L1 mm	L2 mm	L3 mm	D1 mm
4457 20	20 (3.86)	60	22	12	22
4457 25	25 (4.43)	60	22	10	22
4457 27	27 (4.99)	60	22	10	22
4457 30	30 (5.52)	60	22	10	22
4457 40	40 (6.65)	60	22	12	22
4457 40 140	40 (6.65)	140	102	12	22
4457 45	45 (7.82)	60	22	12	22
4457 45 140	45 (7.82)	140	102	12	22
4457 50	50 (8.83)	60	22	12	22
4457 50 140	50 (8.83)	140	102	12	22
4457 55	55 (11.22)	60	22	-	22
4457 55 140	55 (11.22)	140	102	-	22
4457 60	60 (13.25)	60	22	-	22

Socket Wrench Set TX, 26-Piece

- In plastic case Art. No. 4415 14 16 1 with VAROsoft tool deposit Art. No. 9026 83
- For external and internal Torx screws with locking pin in screw head
- Art. No. 4430V 001:**
- Equipment same as Art. No. 4430 001, without case

Article No.	Article Description	QTY
4430 001	VS-TX SOCKET WRENCH SET 26PART	1
4430V 001	VAROsoft TORX SET 26-PART	1

Contents:

- 1x AGR 4440 TX 1/4" E4/E5/E6/E8/E10
- 1x AGR 4442 TX 1/2" E12/E14/E18/E20/E24
- 1x AGR 4308 TX Bit 1/4" with drilled head TX 10/15/20/25/27/30
- 1x AGR 4309 TX Bit 5/16" with drilled head TX 40/45/50/55
- AGR 4353 TX-Bit 5/16" extra long (100mm) TX 25/40/45/55
- 1x Art. No. 4361 14 14 1 Bit adapter 1/4" by 1/4" bit
- 1x Art. No. 4361 12 516 1 Bit adapter 1/2" by 5/16" bit



Socket Wrench Set TX, 13-Piece

- In VAROsoft tool deposit Art. No. 9026 623

Article No.	Article Description	QTY
4457V 013	VS.1/2"TX-SCR.DRIV.INS.13-PCS.	1

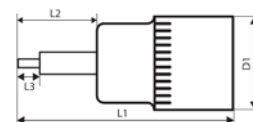
Contents:

- 1x AGR 4457 TX 1/2" short: TX 20/25/27/30/40/45/50/55/60
- 1x AGR 4457 TX 1/2" long: TX 40/45/50/60



TX socket sets

- 1/2" Drive
- Manufacturer Klann

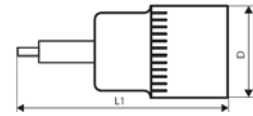


Article No.	Article Description	QTY
4911 4041 3020	KL4041-3020 S.WR.INS.T20 60MM	1
4911 4041 3055	KL4041-3055 S.WR.INS.T55 60MM	1
4911 4041 3070	KL4041-3070 S.WR.INS.T70 60MM	1
4911 4041 3120	KL4041-3120 S.WR.INS.T20 100MM	1
4911 4041 3155	KL4041-3155 S.WR.INS.T55 100MM	1
4911 4041 3160	KL4041-3160 S.WR.INS.T60 100MM	1
4911 4041 3170	KL4041-3170 S.WR.INS.T70 100MM	1
4911 4041 3350	KL4041-3350 S.WR.INS.T50 140MM	1
4911 4041 3355	KL4041-3355 S.WR.INS.T55 140MM	1
4911 4041 3360	KL4041-3360 S.WR.INS.T60 140MM	1
4911 4041 3370	KL4041-3370 S.WR.INS.T70 140MM	1
4911 4041 3440	KL4041-3440 S.WR.INS.T40 200MM	1
4911 4041 3450	KL4041-3450 S.WR.INS.T50 200MM	1
4911 4041 3455	KL4041-3455 S.WR.INS.T55 200MM	1
4911 4041 3460	KL4041-3460 S.WR.INS.T60 200MM	1

Technical Data

Art.-No.	TX (mm)	L1 mm	L2 mm	L3 mm	D1 mm
4911 4041 3020	20 (3,86)	55	17	12	24
4911 4041 3055	55 (11,22)	55	17	-	24
4911 4041 3070	70 (15,51)	55	17	-	24
4911 4041 3120	20 (3,86)	100	62	12	24
4911 4041 3155	55 (11,22)	100	62	-	24
4911 4041 3160	60 (13,25)	100	62	-	24
4911 4041 3170	70 (15,51)	100	62	-	24
4911 4041 3350	50 (8,83)	140	101	-	24
4911 4041 3355	55 (11,22)	140	101	-	24
4911 4041 3360	60 (13,25)	140	101	-	24
4911 4041 3370	70 (15,51)	140	101	-	24
4911 4041 3440	40 (6,65)	200	161	12	24
4911 4041 3450	50 (8,83)	200	161	-	24
4911 4041 3455	55 (11,22)	200	161	-	24
4911 4041 3460	60 (13,25)	200	161	-	24

Screwdriver Bit Allen Key 1/4" **FÖRCH*******

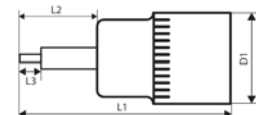


Article No.	Article Description	QTY
4450 3 50	1/4"HEX SCREW.DR.BIT 3 28MM 5*	1
4450 4 50	1/4"HEX SCREW.DR.BIT 4 28MM 5*	1
4450 5 50	1/4"HEX SCREW.DR.BIT 5 28MM 5*	1
4450 6 50	1/4"HEX SCREW.DR.BIT 6 28MM 5*	1
4450 8 50	1/4"HEX SCREW.DR.BIT 8 28MM 5*	1

Technical Data

Art.-No.	SW mm	L1 mm	L2 mm	D1 mm
4450 3 50	3	28	12	12
4450 4 50	4	28	12	12
4450 5 50	5	28	12	12
4450 6 50	6	28	12	12
4450 8 50	8	28	12	12

Allen screwdriver bit TX 1/4" **FÖRCH*******

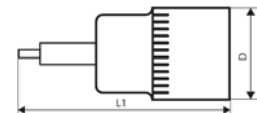


Article No.	Article Description	QTY
4450 3 25 50	1/4"HEX.SCREW.DR.BIT 3 25MM 5*	1 z
4450 4 25 50	1/4"HEX.SCREW.DR.BIT 4 25MM 5*	1 z
4450 5 25 50	1/4"HEX.SCREW.DR.BIT 5 25MM 5*	1 z
4450 6 25 50	1/4"HEX.SCREW.DR.BIT 6 25MM 5*	1 z
4450 7 25 50	1/4"HEX.SCREW.DR.BIT 7 25MM 5*	1 z
4450 8 25 50	1/4"HEX.SCREW.DR.BIT 8 25MM 5*	1 z
4450 10 25 50	1/4"HEX.SCREW.DR.BIT 10 25MM 5*	1 z

Technical Data

Art.-No.	SW mm	L1 mm	L2 mm	L3 mm	D1 mm
4450 3 25 50	3	25	9	-	12
4450 4 25 50	4	25	9	-	12
4450 5 25 50	5	25	9	-	12
4450 6 25 50	6	25	9	-	12
4450 7 25 50	7	25	9	-	12
4450 8 25 50	8	25	9	-	12
4450 10 25 50	10	25	9	-	12

Screwdriver Bit Allen Key 1/4"



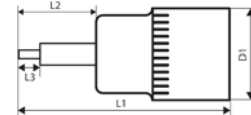
Article No.	Article Description	QTY
4450 3 32	1/4"HEX.SCREW.DR.BIT 3 32MM	1
4450 4 32	1/4"HEX.SCREW.DR.BIT 4 32MM	1
4450 5 32	1/4"HEX.SCREW.DR.BIT 5 32MM	1
4450 6 32	1/4"HEX.SCREW.DR.BIT 6 32MM	1
4450 7 32	1/4"HEX.SCREW.DR.BIT 7 32MM	1
4450 8 32	1/4"HEX.SCREW.DR.BIT 8 32MM	1

Technical Data

Art.-No.	SW mm	L1 mm	L2 mm	D1 mm
4450 3 32	3	32	13	12
4450 4 32	4	32	13	12
4450 5 32	5	32	13	12
4450 6 32	6	32	13	12
4450 7 32	7	32	13	12
4450 8 32	8	28	13	12

Screwdriver insert Inbus 1/4" **ECO**

- matt chrome-plated

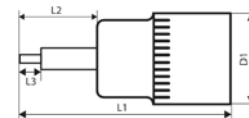


Article No.	Article Description	QTY
4450N 3 37	1/4"HEX SCREW.DR.IN 3 37MM ECO	1
4450N 4 37	1/4"HEX SCREW.DR.IN 4 37MM ECO	1
4450N 5 37	1/4"HEX SCREW.DR.IN 5 37MM ECO	1
4450N 6 37	1/4"HEX SCREW.DR.IN 6 37MM ECO	1
4450N 7 37	1/4"HEX SCREW.DR.IN 7 37MM ECO	1
4450N 8 37	1/4"HEX SCREW.DR.IN 8 37MM ECO	1

Technical Data

Art.-No.	SW mm	L1 mm	L2 mm	D1 mm
4450N 3 32	3	37	18	11,9
4450N 4 32	4	37	18	11,9
4450N 5 32	5	37	18	11,9
4450N 6 32	6	37	18	11,9
4450N 7 32	7	37	18	11,9
4450N 8 32	8	37	18	11,9

Screwdriver Bit Allen Key 3/8" **FÖRCH*******

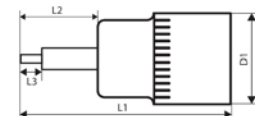


Article No.	Article Description	QTY
4451 3 50	3/8"HEX SCR.DR.AL.KEY 3 38MM5*	1
4451 4 50	3/8"HEX SCR.DR.AL.KEY 4 38MM5*	1
4451 5 50	3/8"HEX SCR.DR.AL.KEY 5 38MM5*	1
4451 6 50	3/8"HEX SCR.DR.AL.KEY 6 38MM5*	1
4451 7 50	3/8"HEX SCR.DR.AL.KEY 7 38MM5*	1
4451 8 50	3/8"HEX SCR.DR.AL.KEY 8 38MM5*	1
4451 9 50	3/8"HEX SCR.DR.AL.KEY 9 38MM5*	1
4451 10 50	3/8"HEX SCR.DR.AL.KEY 10 38MM5*	1

Technical Data

Art.-No.	SW mm	L1 mm	L2 mm	L3 mm	D1 mm
4451 3 50	3	38	12	5	18
4451 4 50	4	38	12	5	18
4451 5 50	5	38	12	5	18
4451 6 50	6	38	12	8	18
4451 7 50	7	38	12	10	18
4451 8 50	8	38	12	-	18
4451 9 50	9	38	12	7	20
4451 10 50	10	38	12	-	20

Screwdriver Bit Allen Key 3/8"

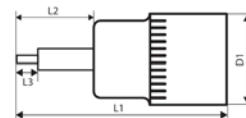


Article No.	Article Description	QTY
4451 3	3/8"HEX SCREWDRIVER BIT 3 48MM	1
4451 4	3/8"HEX SCREWDRIVER BIT 4 48MM	1
4451 5	3/8"HEX SCREWDRIVER BIT 5 48MM	1
4451 5 160	3/8"HEX SCREWDRIVER BIT5 160MM	1
4451 6	3/8"HEX SCREWDRIVER BIT 6 48MM	1
4451 6 160	3/8"HEX SCREWDRIVER BIT6 160MM	1
4451 7	3/8"HEX SCREWDRIVER BIT 7 48MM	1
4451 8	3/8"HEX SCREWDRIVER BIT 8 48MM	1
4451 8 100	3/8"HEX SCREWDRIVER BIT8 100MM	1
4451 10	3/8"HEX SCREWDRIVER BIT10 48MM	1
4451 10 160	3/8"HEX SCREWDRIV.BIT 10 160MM	1

Technical Data

Art.-No.	SW mm	L1 mm	L2 mm	L3 mm	D1 mm
4451 3	3	48	22	10	18
4451 4	4	48	22	10	18
4451 5	5	48	22	10	18
4451 5 160	5	160	134	34	18
4451 6	6	48	22	8	18
4451 6 160	6	160	134	34	18
4451 7	7	48	22	10	18
4451 8	8	48	22	-	18
4451 8 100	8	100	74	-	18
4451 10	10	48	22	-	18
4451 10 160	10	160	134	-	20

Allen screwdriver bit TX 1/2" **FÖRCH*******

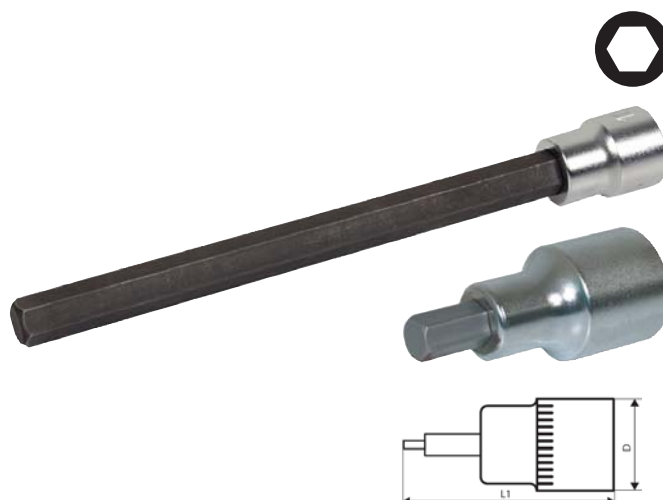


Article No.	Article Description	QTY
4452 5 50	1/2"HEX SCREWDR. BIT 5 50MM 5*	1 z
4452 5 100 50	1/2"HEX SCREWDR. BIT 5 100MM 5*	1 z
4452 6 50	1/2"HEX SCREWDR. BIT 6 50MM 5*	1 z
4452 6 100 50	1/2"HEX SCREWDR. BIT 6 100MM 5*	1 z
4452 7 50	1/2"HEX SCREWDR. BIT 7 50MM 5*	1 z
4452 7 100 50	1/2"HEX SCREWDR. BIT 7 100MM 5*	1 z
4452 8 50	1/2"HEX SCREWDR. BIT 8 50MM 5*	1 z
4452 8 100 50	1/2"HEX SCREWDR. BIT 8 100MM 5*	1 z
4452 9 50	1/2"HEX SCREWDR. BIT 9 50MM 5*	e 10
4452 9 110 50	1/2"HEX SCREWDR. BIT 9 110MM 5*	e 10
4452 10 50	1/2"HEX SCREWDR. BIT 10 50MM 5*	1 z
4452 10 100 50	1/2"HEX SCREWDR. BIT 10 100MM 5*	1 z
4452 11 50	1/2"HEX SCREWDR. BIT 11 50MM 5*	1 z
4452 11 75 50	1/2"HEX SCREWDR. BIT 11 75MM 5*	e 10
4452 12 50	1/2"HEX SCREWDR. BIT 12 50MM 5*	1 z
4452 14 50	1/2"HEX SCREWDR. BIT 14 50MM 5*	1 z
4452 17 50	1/2"HEX SCREWDR. BIT 17 50MM 5*	1 z
4452 19 50	1/2"HEX SCREWDR. BIT 19 50MM 5*	1 z

Technical Data

Art.-No.	SW mm	L1 mm	L2 mm	L3 mm	D1 mm
4452 5 50	5	50	13	5	22
4452 5 100 50	5	100	64	15	22
4452 6 50	6	50	13	5	22
4452 6 100 50	6	100	64	15	22
4452 7 50	7	50	13	7	22
4452 7 100 50	7	100	64	15	22
4452 8 50	8	50	13	-	22
4452 8 100 50	8	100	64	-	22
4452 9 50	9	50	13	8	22
4452 9 110 50	9	110	74	15	22
4452 10 50	10	50	14	-	22
4452 10 100 50	10	100	64	-	22
4452 11 50	11	50	12	8	22
4452 11 75 50	11	75	39	8	22
4452 12 50	12	50	14	-	23
4452 14 50	14	50	14	-	24
4452 17 50	17	50	14	-	27
4452 19 50	19	50	14	-	29

Screwdriver Bit Allen Key 1/2"



Article No.	Article Description	QTY
4452 4	1/2"HEX SCREWDRIVER BIT 4 52MM	1
4452 5	1/2"HEX SCREWDRIVER BIT 5 52MM	1
4452 5 100	1/2"HEX SCREWDRIV.BIT 5 100MM	1
4452 5 180	1/2"HEX SCREWDRIV.BIT 5 180MM	1
4452 6	1/2"HEX SCREWDRIVER BIT 6 52MM	1
4452 6 70	1/2"HEX SCREWDRIVER BIT 6 70MM	1
4452 6 100	1/2"HEX SCREWDRIVER BIT6 100MM	1
4452 6 137	1/2"HEX SCREWDRIVER BIT6 137MM	1
4452 6 160	1/2"HEX SCREWDRIVER BIT6 160MM	1
4452 7	1/2"HEX SCREWDRIVER BIT 7 52MM	1
4452 7 100	1/2"HEX SCREWDRIVER BIT7 100MM	1
4452 8	1/2"HEX SCREWDRIVER BIT 8 52MM	1
4452 8 100	1/2"HEX SCREWDRIVER BIT8 100MM	1
4452 8 120	1/2"HEX SCREWDRIVER BIT8 120MM	1
4452 9	1/2"HEX SCREWDRIVER BIT 9 60MM	1
4452 10	1/2"HEX SCREWDRIVER BIT10 52MM	1
4452 10 140	1/2"HEX SCREWDRIV.BIT 10 140MM	1
4452 12	1/2"HEX SCREWDRIVER BIT12 52MM	1
4452 14	1/2"HEX SCREWDRIVER BIT14 52MM	1
4452 17	1/2"HEX SCREWDRIVER BIT17 60MM	1
4452 19	1/2"HEX SCREWDRIVER BIT19 60MM	1

Technical Data

Art.-No.	SW mm	L1 mm	L2 mm	L3 mm	D1 mm
4452 4	4	52	12	5	22,5
4452 5	5	52	12	7	22,5
4452 5 100	5	100	60	6	22,5
4452 5 180	5	180	138	8	22,5
4452 6	6	52	12	-	22,5
4452 6 70	6	70	29	-	22,5
4452 6 100	6	100	60	-	22,5
4452 6 137	6	135	95	-	22,5
4452 6 160	6	160	118	-	22,5
4452 7	7	52	12	-	22,5
4452 7 100	7	100	60	11	22,5
4452 8	8	52	12	-	22,5
4452 8 100	8	100	60	-	22,5
4452 8 120	8	120	80	-	22,5
4452 9	9	60	22	-	23
4452 10	10	52	12	-	22,5
4452 10 140	10	140	100	-	22,5
4452 12	12	52	12	-	22,5
4452 14	14	52	12	-	22,5
4452 17	17	60	20	-	28
4452 19	19	60	20	-	30

Socket Wrench Set Allen Key, 14-Piece

- In VAROsoft tool deposit Art. No. 9026 622

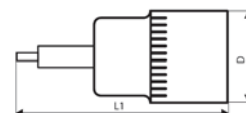
Article No.	Article Description	QTY
4452V 014	VS-1/2"-HEX SCREWDR.INSTRT 14P	1

Contents:

- 1x AGR 4452 hex 1/2" short: 5/6/7/8/10/12/14/17/19
- 1x AGR 4452 hex 1/2" long: 5/6/7/8/10



Screwdriver Bit 5-Toothed 1/4"



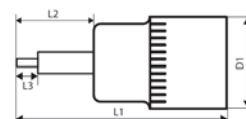
Article No.	Article Description	QTY
4454 10	1/4" 5-TOOTH.SCREWDR.BIT TS10	1
4454 15	1/4" 5-TOOTH.SCREWDR.BIT TS15	1
4454 20	1/4" 5-TOOTH.SCREWDR.BIT TS20	1
4454 25	1/4" 5-TOOTH.SCREWDR.BIT TS25	1
4454 27	1/4" 5-TOOTH.SCREWDR.BIT TS27	1
4454 30	1/4" 5-TOOTH.SCREWDR.BIT TS30	1
4454 40	1/4" 5-TOOTH.SCREWDR.BIT TS40	1

Technical Data

Art.-No.	D mm	d mm	L1 mm
4454 10	12	2.60	25
4454 15	12	3.05	25
4454 20	12	3.55	25
4454 25	12	4.15	25
4454 27	12	4.65	25
4454 30	12	5.10	25
4454 40	12	6.10	25

Screwdriver bit XZN 1/4" FORCH *****

- for multi-point screws



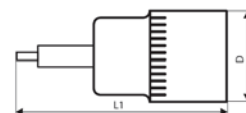
Article No.	Article Description	QTY
4462 5 50	1/4" XZN-SCREWDR.BIT 5 28MM 5*	1
4462 6 50	1/4" XZN-SCREWDR.BIT 6 28MM 5*	1
4462 8 50	1/4" XZN-SCREWDR.BIT 8 28MM 5*	1

Technical Data

art. no.	XZN	L1 mm	L2 mm	L3 mm	D1 mm
4462 5	M5	28	12	6	12
4462 6	M6	28	12	6	12
4462 8	M8	28	12	6	12

Screwdriver Insert XZN 1/4"

- For internal multiple toothing screws



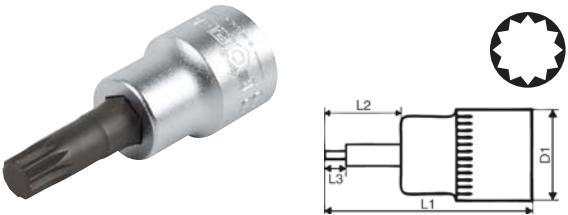
Article No.	Article Description	QTY
4462 5 32	1/4" XZN-SCREWDR.BIT 5 32MM	1
4462 6 32	1/4" XZN-SCREWDR.BIT 6 32MM	1
4462 8 32	1/4" XZN-SCREWDR.BIT 8 32MM	1

Technical Data

Art.-No.	XZN	L1 mm	L2 mm	L3 mm	D1 mm
4462 5 32	M5	32	13	9	12
4462 6 32	M6	32	13	9	12
4462 8 32	M8	32	13	9	12

Screwdriver bit XZN 3/8" **FÖRCH*******

- For multi-point screws



Article No.	Article Description	QTY
4461 5 50	3/8"XZN-SCR.DR.BIT 550MM 5*	1
4461 6 50	3/8"XZN-SCR.DR.BIT 650MM 5*	1
4461 8 50	3/8"XZN-SCR.DR.BIT 850MM 5*	1
4461 10 50	3/8"XZN-SCR.DR.BIT 1050MM 5*	1
4461 12 50	3/8"XZN-SCR.DR.BIT 1250MM 5*	1

Technical Data						
Art.-No.	X2N	L1	L2	L3	D1	
4461 5 50	M 5	50	24	6	18	
4461 6 50	M 6	50	24	6	18	
4461 8 50	M 8	50	24	6	18	
4461 10 50	M 10	50	24	6	18	
4461 12 50	M 12	50	24	6	18	

Screwdriver bit XZN 1/2" FÖRCH *****

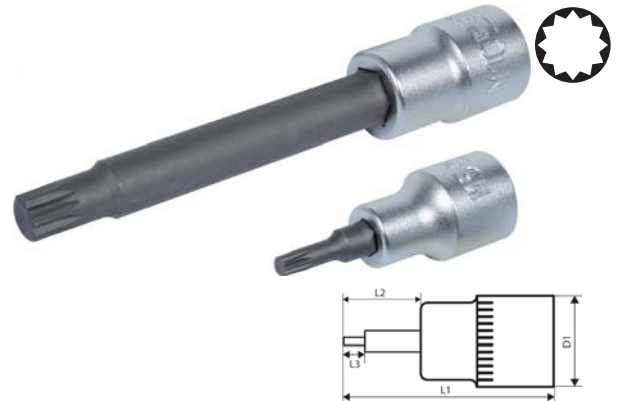
- for multi-point screws

Art.-No. 4460 8 100 50:

- especially for VW swivel hub

Art.-No. 4460 16 50:

- with hole for oil drain plugs at the gear unit in VW/Audi



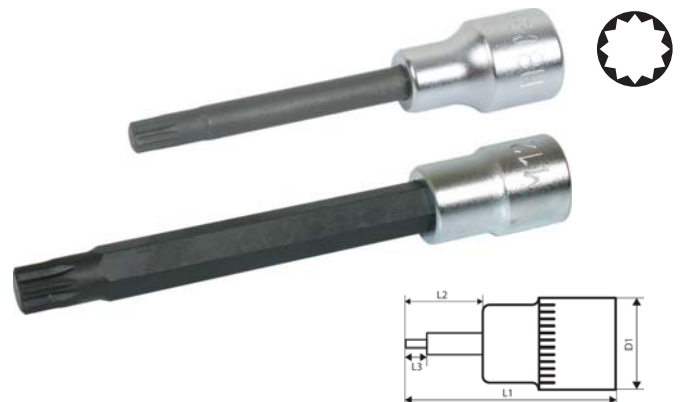
Article No.	Article Description	QTY
4460 5 50	1/2"XZN SCREWDR. BIT 5 60MM 5*	1
4460 6 50	1/2"XZN SCREWDR. BIT 6 60MM 5*	1
4460 6 100 50	1/2"XZN SCREWDR.BIT 6 100MM 5*	1
4460 8 50	1/2"XZN SCREWDR. BIT 8 60MM 5*	1
4460 8 100 50	1/2"XZN SCREWDR. BIT8 100MM 5*	1
4460 10 50	1/2"XZN SCREWDR. BIT10 60MM 5*	1
4460 10 120 50	1/2"XZN SCREWDR.BIT 10 120MM5*	1
4460 12 50	1/2"XZN SCREWDR. BIT12 60MM 5*	1
4460 12 140 50	1/2"XZN SCREWDR.BIT12 140MM 5*	1
4460 14 50	1/2"XZN SCREWDR.BIT 14 60MM 5*	1
4460 16 50	1/2"XZN SCR.DR.BIT16 60MM 5*	1

Technical Data

Art.-No.	XZN	L1 mm	L2 mm	L3 mm	D1 mm
4460 5 50	M5	60	24	14	22
4460 6 50	M6	60	24	14	22
4460 6 100 50	M6	100	64	14	22
4460 8 50	M8	60	24	14	22
4460 8 100 50	M8	100	64	16	22
4460 10 50	M10	60	24	18	23
4460 10 120 50	M10	120	83	16	23
4460 12 50	M12	60	24	18	23
4460 12 140 50	M12	140	104	18	23
4460 14 50	M14	60	24	18	24
4460 16 50	M16	60	21	16	27

Screwdriver Bit XZN 1/2"

- For internal multiple toothing screws



Article No.	Article Description	QTY
4460 5	1/2"XZN SCREWDRIVER BIT 5 60MM	1
4460 6	1/2"XZN SCREWDRIVER BIT 6 60MM	1
4460 8	1/2"XZN SCREWDRIVER BIT 8 60MM	1
4460 8 100	1/2"XZN SCREWDRIVER BIT8 100MM	1
4460 10	1/2"XZN SCREWDRIVER BIT10 60MM	1
4460 10 100	1/2"XZN SCREWDRIV.BIT 10 100MM	1
4460 10 120	1/2"XZN SCREWDRIV.BIT 10 120MM	1
4460 12	1/2"XZN SCREWDRIVER BIT12 60MM	1
4460 12 100	1/2"XZN SCREWDRIV.BIT 12 100MM	1
4460 12 140	1/2"XZN SCREWDRIV.BIT 12 140MM	1
4460 14	1/2"XZN SCREWDRIV.BIT 14 55MM	1

Technical Data

Art.-No.	XZN	L1 mm	L2 mm	L3 mm	D1 mm
4460 5	M5	60	22	14	22
4460 6	M6	60	22	14	22
4460 8	M8	60	22	14	22
4460 8 100	M8	100	62	14	22
4460 10	M10	60	22	14	22
4460 10 100	M10	100	62	14	22
4460 10 120	M10	120	82	14	22
4460 12	M12	60	22	14	24
4460 12 100	M12	100	62	16	24
4460 12 140	M12	140	82	16	24
4460 14	M14	60	22	14	24

Socket wrench set XZN, 26-parts

- 1/2" drive
- Manufacturer Klann



Article No.	Article Description	QTY
4911 4031 300	KL4031-300K SCR.DR.INS.SET	1

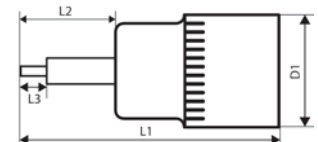
Contents each 1x:

- Socket wrench insert 55 mm
M5/M6/M8/M9/M10/M12/M14/M16
- Socket wrench insert 100 mm
M5/M6/M8/M9/M10/M12/M14
- Socket wrench insert 140 mm
M5/M6/M8/M9/M10/M12/M14
- Socket wrench insert 200 mm
M8/M10/M12/M14



XZN socket sets

- 1/2" Drive
- Manufacturer Klann



Article No.	Article Description	QTY
4911 4031 3005	KL4031-3005 SOCK.WR.INS.XZN M5	1
4911 4031 3006	KL4031-3006 SOCK.WR.INS.XZN M6	1
4911 4031 3008	KL4031-3008 SOCK.WR.INS.XZN M8	1
4911 4031 3009	KL4031-3009 SOCK.WR.INS.XZN M9	1
4911 4031 3010	KL4031-3010 SOCK.WR.INS.XZN M10	1
4911 4031 3012	KL4031-3012 SOCK.WR.INS.XZN M12	1
4911 4031 3014	KL4031-3014 SOCK.WR.INS.XZN M14	1
4911 4031 3016	KL4031-3016 SOCK.WR.INS.XZN M16	1
4911 4031 3105	KL4031-3105 SOCK.WR.INS.XZN M5	1
4911 4031 3106	KL4031-3106 SOCK.WR.INS.XZN M6	1
4911 4031 3108	KL4031-3108 SOCK.WR.INS.XZN M8	1
4911 4031 3109	KL4031-3109 SOCK.WR.INS.XZN M9	1
4911 4031 3110	KL4031-3110 SOCK.WR.INS.XZN M10	1
4911 4031 3112	KL4031-3112 SOCK.WR.INS.XZN M12	1
4911 4031 3114	KL4031-3114 SOCK.WR.INS.XZN M14	1
4911 4031 3305	KL4031-3305 SOCK.WR.INS.XZN M5	1
4911 4031 3306	KL4031-3306 SOCK.WR.INS.XZN M6	1
4911 4031 3308	KL4031-3308 SOCK.WR.INS.XZN M8	1
4911 4031 3309	KL4031-3309 SOCK.WR.INS.XZN M9	1
4911 4031 3310	KL4031-3310 SOCK.WR.INS.XZN M10	1
4911 4031 3312	KL4031-3312 SOCK.WR.INS.XZN M12	1
4911 4031 3314	KL4031-3314 SOCK.WR.INS.XZN M14	1
4911 4031 3408	KL4031-3408 SOCK.WR.INS.XZN M8	1
4911 4031 3410	KL4031-3410 SOCK.WR.INS.XZN M10	1
4911 4031 3412	KL4031-3412 SOCK.WR.INS.XZN M12	1
4911 4031 3414	KL4031-3414 SOCK.WR.INS.XZN M14	1

Technical Data

Art.-No.	XZN	L1 mm	L2 mm	L3 mm	D1 mm
4911 4031 3005	M 5	55	17	12	24
4911 4031 3006	M 6	55	17	12	24
4911 4031 3008	M 8	55	17	12	24
4911 4031 3009	M 9	55	17	13	24
4911 4031 3010	M 10	55	17	13	24
4911 4031 3012	M 12	55	17	14	24
4911 4031 3014	M 14	55	17	14	24
4911 4031 3016	M 16	55	17	-	24
4911 4031 3105	M 5	100	62	12	24
4911 4031 3106	M 6	100	62	12	24
4911 4031 3108	M 8	100	62	12	24
4911 4031 3109	M 9	100	62	15	24
4911 4031 3110	M 10	100	62	15	24
4911 4031 3112	M 12	100	62	17	24
4911 4031 3114	M 14	100	62	18	24
4911 4031 3305	M 5	140	101	12	24
4911 4031 3306	M 6	140	101	12	24
4911 4031 3308	M 8	140	101	12	24
4911 4031 3309	M 9	140	101	15	24
4911 4031 3310	M 10	140	101	17	24
4911 4031 3312	M 12	140	101	17	24
4911 4031 3314	M 14	140	101	18	24
4911 4031 3408	M 8	200	161	12	24
4911 4031 3410	M 10	200	161	15	24
4911 4031 3412	M 12	200	161	17	24
4911 4031 3414	M 14	200	161	18	24

Screwdriver Bit PH 1/4" **FÖRCH*******

- Cross recessed PH

Article No.	Article Description	QTY
4470 1 50	1/4"PH-SCREWDR.BIT 1 28MM 5*	1
4470 2 50	1/4"PH-SCREWDR.BIT 2 28MM 5*	1



Screwdriver bit set PH 1/4" **FÖRCH*******

- Cross recessed PH

Article No.	Article Description	QTY
4470 1 28 50	1/4"PH SCREWDR.BIT 1 28MM 5*	1
4470 2 28 50	1/4"PH-SCREWDR.BIT 2 28MM 5*	1



Screwdriver Bit PH 1/4"

- Cross recessed PH

Article No.	Article Description	QTY
4470 1 32	1/4"PH SCREWDR.BIT 1 32MM	1
4470 2 32	1/4"PH SCREWDR.BIT 2 32MM	1
4470 3	1/4"PH SCREWDR.BIT 3 28MM	1
4470 3 32	1/4"PH SCREWDR.BIT 3 32MM	1
4470 4	1/4"PH SCREWDR.BIT 4 28MM	1



Screwdriver insert PH 1/4" **ECO**

- cross slot PH
- matt chrome-plated

Article No.	Article Description	QTY
4470N 0 37	1/4"PH SCREW.DR.INS.0 37MM ECO	1
4470N 1 37	1/4"PH SCREW.DR.INS.1 37MM ECO	1
4470N 2 37	1/4"PH SCREW.DR.INS.2 37MM ECO	1



Screwdriver insert PZ 1/4" **ECO**

- Cross slot PZ
- matt chrome-plated

Article No.	Article Description	QTY
4472N 0 37	1/4"PZ SCREW.DR.INS.0 37MM ECO	1
4472N 1 37	1/4"PZ SCREW.DR.INS.1 37MM ECO	1
4472N 2 37	1/4"PZ SCREW.DR.INS.2 37MM ECO	1
4472N 3 37	1/4"PZ SCREW.DR.INS.3 37MM ECO	1



Screwdriver Bit LS 1/4" **FÖRCH*******

- Slotted LS

Article No.	Article Description	QTY
4471 35 50	1/4"LS SCREWDR.BIT 3.5 28MM 5*	1
4471 55 50	1/4"LS SCREWDR.BIT 5.5 28MM 5*	1



Screwdriver Bit LS 1/4"

- Slotted LS

Article No.	Article Description	QTY
4471 4	1/4"LS SCREWDR.BIT 4 25MM	1
4471 4 32	1/4"LS SCREWDR.BIT 4 32MM	1
4471 5	1/4"LS SCREWDR.BIT 5 25MM	1
4471 5 32	1/4"LS SCREWDR.BIT 5 32MM	1
4471 6	1/4"LS SCREWDR.BIT 6 25MM	1



25 mm

Screwdriver insert LS 1/4" **ECO**

- Slot LS
- matt chrome-plated

Article No.	Article Description	QTY
4471N 4	1/4"LS SCREWDR.INS.4 37MM ECO	1
4471N 55	1/4"LS SCR.DR.INS.5.5 37MM ECO	1
4471N 6	1/4"LS SCR.DR.INS.6 37MM ECO	1
4471N 7	1/4"LS SCR.DR.INS.7 37MM ECO	1



Lambda-Nut Long 1/2"

- For all long lambda probes
- Slot length 85 mm turned layer
- Switched on layer for Ford, Nissan, DB engine 111

Article No.	Article Description	QTY
4439 110	LAMBDA NUT 1/2" SW22 110MM	1



Lambda Nut Short 1/2"

- For all short lambda probes
- Slot length 45 mm
- For all short probes as long as the nut can be attached (Opel, Ford, DB, Nissan, VW...)

Article No.	Article Description	QTY
4439 70	LAMBDA NUT 1/2" SW22 70MM	1



Lambda-Key Long

- For lambda probes on which no nuts can be attached due to lack of space
- The joint head has got a hexagon mounting on the one side and a double hexagon mounting on the other side.

Article No.	Article Description	QTY
4439 230	LAMBDA-KEY SW22 230MM	1



Spark Plug Insert

- Hexagon with fitting spring
- Art.-No. 4485 38 14 12: double hexagon with fitting spring

Article No.	Article Description	QTY
4485 38 14	3/8"SPARK PLUG INS. SW14 70MM	1 z
4485 38 14 12	3/8"SPA.PL.INS.BIHEX SW14 63MM	1
4485 38 16	3/8"SPARK PLUG INS. SW16 70MM	1 z
4485 38 18	3/8"SPARK PL.INS. SW18 70MM	1
4485 38 208	3/8"SPARK PL.INS. SW20,8 70MM	1 z
4485 12 16	1/2"SPARK PL.INS. SW16 70MM	1 z
4485 12 18	1/2"SPARK PL.INS. SW18 70MM	1 z
4485 12 208	1/2"SPARK PL.INS. SW20,8 70MM	1 z



Spark plug insert **ECO**

- with rubber holder
- Matt chromium plated

Article No.	Article Description	QTY
4485N 38 18	3/8"SPARK PL.INS.SW18 65MM ECO	1
4485N 12 16	1/2"SPARK PL.INS.SW16 65MM ECO	1
4485N 12 21	1/2"SPARK PL.INS.SW21 65MM ECO	1



Spark Plug Insert

- Hexagon with fitting spring
- Art.-No. 4485 38 14 12: double hexagon with fitting spring

Article No.	Article Description	QTY
4485 38 14	3/8"SPARK PLUG INS. SW14 70MM	1 z
4485 38 14 12	3/8"SPA.PL.INS.BIHEX SW14 63MM	1
4485 38 16	3/8"SPARK PLUG INS. SW16 70MM	1 z
4485 38 18	3/8"SPARK PL.INS. SW18 70MM	1
4485 38 208	3/8"SPARK PL.INS. SW20,8 70MM	1 z
4485 12 16	1/2"SPARK PL.INS. SW16 70MM	1 z
4485 12 18	1/2"SPARK PL.INS. SW18 70MM	1 z
4485 12 208	1/2"SPARK PL.INS. SW20,8 70MM	1 z



Spark Plug Insert Long

- Hexagon with fitting spring

Article No.	Article Description	QTY
4486 38 14	3/8"SPARK PL.INS. SW14 250MM	1 ü
4486 38 16	3/8"SPARK PL.INS. SW16 180MM	1 ü
4486 38 208	3/8"SPARK PL.INS. SW20,8 180MM	1



Spark Plug - Articulation Insert

- Hexagonal with fitting spring

Article No.	Article Description	QTY
4487 38 16	3/8"SPARK PL.ARTICU.SW16 107MM	1 z
4487 12 16	1/2"SPARK PL.ARTICU.SW16 88MM	1
4487 12 208	1/2"SPARK PL.ARTI.SW20,8 101MM	1 ü



Spark Plug Key

- T-form with fitting spring and hinge
- Especially suitable for Mercedes-Benz
- Length 500 mm

Article No.	Article Description	QTY
4922 16	SPARK PLUG KEY SW16	1
4922 208	SPARK PLUG KEY SW20,8	1



Spark Plug Ratchet 3/8"

- With preset torque 25 Nm
- For the checked tightening of spark plugs
- Avoids damage due to over tightening

Article No.	Article Description	QTY
4401 38 25	3/8"SPARK PL.TORQ.RATCHET178MM	1



Kraft - Hex Socket Wrench Insert 1/2" Short

- SW 10 - 24, length: 38 mm
- SW 27, length: 40 mm



Article No.	Article Description	QTY
4570 12 10	1/2" KRAFT SOCK.WR.INS.SH.SW10	1
4570 12 12	1/2" KRAFT SOCK.WR.INS.SH.SW12	1
4570 12 13	1/2" KRAFT SOCK.WR.INS.SH.SW13	1
4570 12 14	1/2" KRAFT SOCK.WR.INS.SH.SW14	1
4570 12 15	1/2" KRAFT SOCK.WR.INS.SH.SW15	1
4570 12 16	1/2" KRAFT SOCK.WR.INS.SH.SW16	1
4570 12 17	1/2" KRAFT SOCK.WR.INS.SH.SW17	1
4570 12 18	1/2" KRAFT SOCK.WR.INS.SH.SW18	1
4570 12 19	1/2" KRAFT SOCK.WR.INS.SH.SW19	1
4570 12 21	1/2" KRAFT SOCK.WR.INS.SH.SW21	1
4570 12 22	1/2" KRAFT SOCK.WR.INS.SH.SW22	1
4570 12 24	1/2" KRAFT SOCK.WR.INS.SH.SW24	1
4570 12 27	1/2" KRAFT SOCK.WR.INS.SH.SW27	1
4570 12 30	1/2" KRAFT SOCK.WR.INS.SH.SW30	1
4570 12 32	1/2" KRAFT SOCK.WR.INS.SH.SW32	1
4570 12 33	1/2" KRAFT SOCK.WR.INS.SH.SW33	1

Kraft - Hex Socket Wrench Insert 1/2" Long

- SW 13 - 21, length: 80 mm
- SW 22 - 27, length: 85 mm



Article No.	Article Description	QTY
4571 12 10	1/2" KRAFT SOCK.WR.IN.LONG SW10	1
4571 12 12	1/2" KRAFT SOCK.WR.IN.LONG SW12	1
4571 12 13	1/2" KRAFT SOCK.WR.IN.LONG SW13	1
4571 12 14	1/2" KRAFT SOCK.WR.IN.LONG SW14	1
4571 12 15	1/2" KRAFT SOCK.WR.IN.LONG SW15	1
4571 12 16	1/2" KRAFT SOCK.WR.IN.LONG SW16	1
4571 12 17	1/2" KRAFT SOCK.WR.IN.LONG SW17	1
4571 12 18	1/2" KRAFT SOCK.WR.IN.LONG SW18	1
4571 12 19	1/2" KRAFT SOCK.WR.IN.LONG SW19	1
4571 12 21	1/2" KRAFT SOCK.WR.IN.LONG SW21	1
4571 12 22	1/2" KRAFT SOCK.WR.IN.LONG SW22	1
4571 12 24	1/2" KRAFT SOCK.WR.IN.LONG SW24	1
4571 12 27	1/2" KRAFT SOCK.WR.IN.LONG SW27	1
4571 12 30	1/2" KRAFT SOCK.WR.IN.LONG SW30	1
4571 12 32	1/2" KRAFT SOCK.WR.IN.LONG SW32	1
4571 12 33	1/2" KRAFT SOCK.WR.IN.LONG SW33	1

Kraft - Hex Socket Wrench Insert 1/2" Extra Short

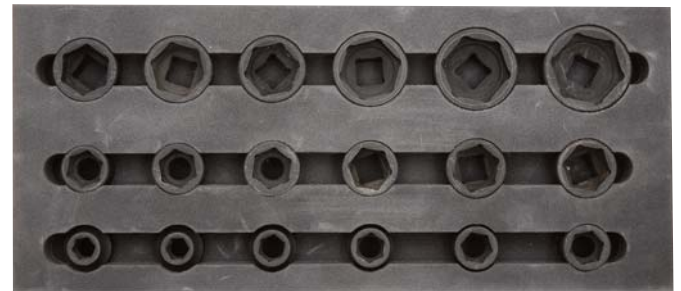
- extra short version, only 28 mm long



Article No.	Article Description	QTY
4570 12 10 1	1/2" KRAFT SOCK.W.SH.SW10 28MM	1
4570 12 11 1	1/2" KRAFT SOCK.W.SH.SW11 28MM	1
4570 12 12 1	1/2" KRAFT SOCK.W.SH.SW12 28MM	1
4570 12 13 1	1/2" KRAFT SOCK.W.SH.SW13 28MM	1
4570 12 14 1	1/2" KRAFT SOCK.W.SH.SW14 28MM	1
4570 12 15 1	1/2" KRAFT SOCK.W.SH.SW15 28MM	1
4570 12 16 1	1/2" KRAFT SOCK.W.SH.SW16 28MM	1
4570 12 17 1	1/2" KRAFT SOCK.W.SH.SW17 28MM	1
4570 12 18 1	1/2" KRAFT SOCK.W.SH.SW18 28MM	1
4570 12 19 1	1/2" KRAFT SOCK.W.SH.SW19 28MM	1
4570 12 20 1	1/2" KRAFT SOCK.W.SH.SW20 28MM	1
4570 12 21 1	1/2" KRAFT SOCK.W.SH.SW21 28MM	1
4570 12 22 1	1/2" KRAFT SOCK.W.SH.SW22 28MM	1
4570 12 23 1	1/2" KRAFT SOCK.W.SH.SW23 28MM	1
4570 12 24 1	1/2" KRAFT SOCK.W.SH.SW24 28MM	1
4570 12 27 1	1/2" KRAFT SOCK.W.SH.SW27 28MM	1
4570 12 30 1	1/2" KRAFT SOCK.W.SH.SW30 28MM	1
4570 12 32 1	1/2" KRAFT SOCK.W.SH.SW32 28MM	1

Kraft - Hex Socket Wrench Set 1/2" Extra Short

- in VAROsoft system tray Art.No. 9026 647
- extra short version, only 28 mm long



Contents:

Article No.	Article Description	Quantity
4570 12 10 1	1/2" KRAFT SOCK.W.SH.SW10 28MM	1
4570 12 11 1	1/2" KRAFT SOCK.W.SH.SW11 28MM	1
4570 12 12 1	1/2" KRAFT SOCK.W.SH.SW12 28MM	1
4570 12 13 1	1/2" KRAFT SOCK.W.SH.SW13 28MM	1
4570 12 14 1	1/2" KRAFT SOCK.W.SH.SW14 28MM	1
4570 12 15 1	1/2" KRAFT SOCK.W.SH.SW15 28MM	1
4570 12 16 1	1/2" KRAFT SOCK.W.SH.SW16 28MM	1
4570 12 17 1	1/2" KRAFT SOCK.W.SH.SW17 28MM	1
4570 12 18 1	1/2" KRAFT SOCK.W.SH.SW18 28MM	1
4570 12 19 1	1/2" KRAFT SOCK.W.SH.SW19 28MM	1
4570 12 20 1	1/2" KRAFT SOCK.W.SH.SW20 28MM	1
4570 12 21 1	1/2" KRAFT SOCK.W.SH.SW21 28MM	1
4570 12 22 1	1/2" KRAFT SOCK.W.SH.SW22 28MM	1
4570 12 23 1	1/2" KRAFT SOCK.W.SH.SW23 28MM	1
4570 12 24 1	1/2" KRAFT SOCK.W.SH.SW24 28MM	1
4570 12 27 1	1/2" KRAFT SOCK.W.SH.SW27 28MM	1
4570 12 30 1	1/2" KRAFT SOCK.W.SH.SW30 28MM	1
4570 12 32 1	1/2" KRAFT SOCK.W.SH.SW32 28MM	1

Article No.	Article Description	QTY
4570V 90	VS-KR-HEX SOCK.WR.EX.SH.18-PCE	1

Kraft - Hex Socket Wrench Insert 3/4" Short

- SW 17 - 27, length: 50 mm
- SW 30 - 33, length: 53 mm
- SW 36, length: 55 mm
- SW 38, length: 57 mm



Article No.	Article Description	QTY
4570 34 17	3/4"KRAFT SOCK.W.IN.SHORT SW17	1
4570 34 19	3/4"KRAFT SOCK.W.IN.SHORT SW19	1
4570 34 22	3/4"KRAFT SOCK.W.IN.SHORT SW22	1
4570 34 24	3/4"KRAFT SOCK.W.IN.SHORT SW24	1
4570 34 27	3/4"KRAFT SOCK.W.IN.SHORT SW27	1
4570 34 29	3/4"KRAFT SOCK.W.IN.SHORT SW29	1
4570 34 30	3/4"KRAFT SOCK.W.IN.SHORT SW30	1
4570 34 32	3/4"KRAFT SOCK.W.IN.SHORT SW32	1
4570 34 33	3/4"KRAFT SOCK.W.IN.SHORT SW33	1
4570 34 36	3/4"KRAFT SOCK.W.IN.SHORT SW36	1
4570 34 38	3/4"KRAFT SOCK.W.IN.SHORT SW38	1

Kraft - Hex Socket Wrench Insert 3/4" Long

- Length: 100 mm



Article No.	Article Description	QTY
4571 34 17	3/4"KRAFT SOCK.W.INS.LONG SW17	1
4571 34 19	3/4"KRAFT SOCK.W.INS.LONG SW19	1
4571 34 22	3/4"KRAFT SOCK.W.INS.LONG SW22	1
4571 34 24	3/4"KRAFT SOCK.W.INS.LONG SW24	1
4571 34 27	3/4"KRAFT SOCK.W.INS.LONG SW27	1
4571 34 29	3/4"KRAFT SOCK.W.INS.LONG SW29	1
4571 34 30	3/4"KRAFT SOCK.W.INS.LONG SW30	1
4571 34 32	3/4"KRAFT SOCK.W.INS.LONG SW32	1
4571 34 33	3/4"KRAFT SOCK.W.INS.LONG SW33	1
4571 34 36	3/4"KRAFT SOCK.W.INS.LONG SW36	1

Kraft - Hex Socket Wrench Insert 1" Short

- SW 24 - 27 length: 57 mm
- SW 30 - 36 length: 62 mm
- SW 38 - 41 length: 66 mm
- SW 46 - 50 length: 70 mm
- SW 55 - 70 length: 75 mm
- SW 75 length: 80 mm
- SW 80 length: 85 mm
- SW 85 length: 90 mm
- SW 90 length: 95 mm
- SW 95 length: 100 mm



Article No.	Article Description	QTY
4570 1 24	1"KRAFT SOCK.WRENCH SHORT SW24	1
4570 1 27	1"KRAFT SOCK.WRENCH SHORT SW27	1
4570 1 29	1"KRAFT SOCK.WRENCH SHORT SW29	1
4570 1 30	1"KRAFT SOCK.WRENCH SHORT SW30	1
4570 1 32	1"KRAFT SOCK.WRENCH SHORT SW32	1
4570 1 33	1"KRAFT SOCK.WRENCH SHORT SW33	1
4570 1 36	1"KRAFT SOCK.WRENCH SHORT SW36	1
4570 1 38	1"KRAFT SOCK.WRENCH SHORT SW38	1
4570 1 41	1"KRAFT SOCK.WRENCH SHORT SW41	1
4570 1 46	1"KRAFT SOCK.WRENCH SHORT SW46	1
4570 1 50	1"KRAFT SOCK.WRENCH SHORT SW50	1
4570 1 55	1"KRAFT SOCK.WRENCH SHORT SW55	1
4570 1 60	1"KRAFT SOCK.WRENCH SHORT SW60	1
4570 1 65	1"KRAFT SOCK.WRENCH SHORT SW65	1
4570 1 70	1"KRAFT SOCK.WRENCH SHORT SW70	1
4570 1 75	1"KRAFT SOCK.WRENCH SHORT SW75	1
4570 1 80	1"KRAFT SOCK.WRENCH SHORT SW80	1
4570 1 85	1"KRAFT SOCK.WRENCH SHORT SW85	1
4570 1 90	1"KRAFT SOCK.WRENCH SHORT SW90	1
4570 1 95	1"KRAFT SOCK.WRENCH SHORT SW95	1

Kraft - Hex Socket Wrench Insert 1" Long

- Length: 108 mm
- Medium-long (MLG) especially for torque replicator Art. No. 4642 3 1 and Art. No. 4642 3
- Length: 76 mm



Article No.	Article Description	QTY
4571 1 24	1"KRAFT SOCK.WRENCH LONG SW 24	1
4571 1 27	1"KRAFT SOCK.WRENCH LONG SW 27	1
4571 1 29	1"KRAFT SOCK.WRENCH LONG SW 29	1
4571 1 30	1"KRAFT SOCK.WRENCH LONG SW 30	1
4571 1 32	1"KRAFT SOCK.WRENCH LONG SW 32	1
4571 1 33	1"KRAFT SOCK.WRENCH LONG SW 33	1
4571 1 36	1"KRAFT SOCK.WRENCH LONG SW 36	1
4571 1 38	1"KRAFT SOCK.WRENCH LONG SW 38	1
4571 1 41	1"KRAFT SOCK.WRENCH LONG SW 41	1
4571 1 46	1"KRAFT SOCK.WRENCH LONG SW 46	1
4571 1 50	1"KRAFT SOCK.WRENCH LONG SW 50	1
4571 1 55	1"KRAFT SOCK.WRENCH LONG SW 55	1
4571 1 60	1"KRAFT SOCK.WRENCH LONG SW 60	1
4571 1 65	1"KRAFT SOCK.WRENCH LONG SW 65	1
4571 1 70	1"KRAFT SOCK.WRENCH LONG SW 70	1
4571 1 75	1"KRAFT SOCK.WRENCH LONG SW 75	1
4571 1 80	1"KRAFT SOCK.WRENCH LONG SW 80	1
4571 1 85	1"KRAFT SOCK.WRENCH LONG SW 85	1
4571 1 90	1"KRAFT SOCK.WRENCH LONG SW 90	1
4571 1 1 24	1"KRAFT SOCK.WRENCH MLG SW 24	1
4571 1 1 27	1"KRAFT SOCK.WRENCH MLG SW 27	1
4571 1 1 30	1"KRAFT SOCK.WRENCH MLG SW 30	1
4571 1 1 32	1"KRAFT SOCK.WRENCH MLG SW 32	1
4571 1 1 33	1"KRAFT SOCK.WRENCH MLG SW 33	1
4571 1 1 36	1"KRAFT SOCK.WRENCH MLG SW 36	1
4571 1 1 38	1"KRAFT SOCK.WRENCH MLG SW 38	1
4571 1 1 41	1"KRAFT SOCK.WRENCH MLG SW 41	1

Hexagonal Wheel Brace, 1/2"

- On edge connector 241 mm

Article No.	Article Description	QTY
4578 12	1/2" KRAFT-NUT SET 6-PART	1

Contents:

- 1x 17/19/21 mm short
- 1x 17/19/21 mm long



Extension for Kraft - Socket Wrench Insert

Article No.	Article Description	QTY
4575 12 75	1/2" KRAFT EXTENSION 75MM	1
4575 12 125	1/2" KRAFT EXTENSION 125MM	1 ü
4575 12 250	1/2" KRAFT EXTENSION 250MM	1 ü
4575 34 175	3/4" KRAFT EXTENSION 175MM	1
4575 34 250	3/4" KRAFT EXTENSION 250MM	1
4575 1 175	1" KRAFT EXTENSION 175MM	1
4575 1 330	1" KRAFT EXTENSION 330MM	1



Adapter for Kraft - Socket Wrench Insert

Article No.	Article Description	QTY
4576 12 34	1/2" - 3/4" KRAFT-ADAPTER	1
4576 34 1	3/4" - 1" KRAFT-ADAPTER	1
4576 34 12	3/4" - 1/2" KRAFT-ADAPTER	1
4576 1 34	1" - 3/4" KRAFT-ADAPTER	1

(Square drive - square output)



Kraft - Socket Wrench Insert Articulation Piece

Art. No. 4577 12 and Art. No. 4577 34:

- With ball locking

Art. No. 4577 1:

- With bore
- For safety clip



Article No.	Article Description	QTY
4577 12	1/2" KRAFT-ARTICULATION PIECE	1
4577 34	3/4" KRAFT-ARTICULATION PIECE	1
4577 1	1" KRAFT-ARTICULATION PIECE	1

Safety Clamps for Kraft - Socket Wrench Insert

Article No.	Article Description	QTY
4579 12 14	1/2" SAFETY CLAMP UP TO SW 14	1
4579 12 15	1/2" SAFETY CLAMP FROM SW 15	1
4579 34	3/4" SAFETY CLAMP	1
4579 1	1" SAFETY CLAMP	1



Impact sockets 6-edged 1/2" short in product range

• 13 pieces

Contents:

Article No.	Article Description	Quantity
4570 12 10	1/2" KRAFT SOCK.WR.INS.SH.SW10	1
4570 12 12	1/2" KRAFT SOCK.WR.INS.SH.SW12	1
4570 12 13	1/2" KRAFT SOCK.WR.INS.SH.SW13	1
4570 12 14	1/2" KRAFT SOCK.WR.INS.SH.SW14	1
4570 12 15	1/2" KRAFT SOCK.WR.INS.SH.SW15	1
4570 12 16	1/2" KRAFT SOCK.WR.INS.SH.SW16	1
4570 12 17	1/2" KRAFT SOCK.WR.INS.SH.SW17	1
4570 12 18	1/2" KRAFT SOCK.WR.INS.SH.SW18	1
4570 12 19	1/2" KRAFT SOCK.WR.INS.SH.SW19	1
4570 12 21	1/2" KRAFT SOCK.WR.INS.SH.SW21	1
4570 12 22	1/2" KRAFT SOCK.WR.INS.SH.SW22	1
4570 12 24	1/2" KRAFT SOCK.WR.INS.SH.SW24	1
4570 12 27	1/2" KRAFT SOCK.WR.INS.SH.SW27	1

Article No.	Article Description	QTY
9000 4570 12	1/2"KRAFT SOCK.WR.INS.SHORT	1
9000R 4570 12	1/2"INLETT KRAFT S.WR.IN.SHORT	1



Impact sockets 6-edged 3/4" short in product range

• 11 pieces

Contents:

Article No.	Article Description	Quantity
4570 34 17	3/4"KRAFT SOCK.W.IN.SHORT SW17	1
4570 34 19	3/4"KRAFT SOCK.W.IN.SHORT SW19	1
4570 34 22	3/4"KRAFT SOCK.W.IN.SHORT SW22	1
4570 34 24	3/4"KRAFT SOCK.W.IN.SHORT SW24	1
4570 34 27	3/4"KRAFT SOCK.W.IN.SHORT SW27	1
4570 34 29	3/4"KRAFT SOCK.W.IN.SHORT SW29	1
4570 34 30	3/4"KRAFT SOCK.W.IN.SHORT SW30	1
4570 34 32	3/4"KRAFT SOCK.W.IN.SHORT SW32	1
4570 34 33	3/4"KRAFT SOCK.W.IN.SHORT SW33	1
4570 34 36	3/4"KRAFT SOCK.W.IN.SHORT SW36	1
4570 34 38	3/4"KRAFT SOCK.W.IN.SHORT SW38	1

Article No.	Article Description	QTY
9000 4570 34	3/4"KRAFT SOCK.WR.INS. SHORT	1
9000R 4570 34	3/4"INLETT KRAFT S.WR.IN.SHORT	1



Impact sockets 6-edged 1/2" long in product range

• 7 pieces

Contents:

Article No.	Article Description	Quantity
4571 12 13	1/2"KRAFT SOCK.WR.IN.LONG.SW13	1
4571 12 17	1/2"KRAFT SOCK.WR.IN.LONG.SW17	1
4571 12 19	1/2"KRAFT SOCK.WR.IN.LONG.SW19	1
4571 12 21	1/2"KRAFT SOCK.WR.IN.LONG.SW21	1
4571 12 22	1/2"KRAFT SOCK.WR.IN.LONG.SW22	1
4571 12 24	1/2"KRAFT SOCK.WR.IN.LONG.SW24	1
4571 12 27	1/2"KRAFT SOCK.WR.IN.LONG.SW27	1

Article No.	Article Description	QTY
9000 4571 12	1/2"KRAFT SOCK.WR.INS LONG	1
9000R 4571 12	1/2"INLETT KRAFT S.WR.IN. LONG	1



Impact sockets 6-edged 3/4" long in product range

• 8 pieces

Contents:

Article No.	Article Description	Quantity
4571 34 22	3/4"KRAFT SOCK.W.INS.LONG.SW22	1
4571 34 24	3/4"KRAFT SOCK.W.INS.LONG.SW24	1
4571 34 27	3/4"KRAFT SOCK.W.INS.LONG.SW27	1
4571 34 29	3/4"KRAFT SOCK.W.INS.LONG.SW29	1
4571 34 30	3/4"KRAFT SOCK.W.INS.LONG.SW30	1
4571 34 32	3/4"KRAFT SOCK.W.INS.LONG.SW32	1
4571 34 33	3/4"KRAFT SOCK.W.INS.LONG.SW33	1
4571 34 36	3/4"KRAFT SOCK.W.INS.LONG.SW36	1

Article No.	Article Description	QTY
9000 4571 34	3/4"KRAFT SOCK.WR.INS LONG	1
9000R 4571 34	3/4"INLETT KRAFT S.WR.IN. LONG	1



Socket 1/4", 2-way insulation

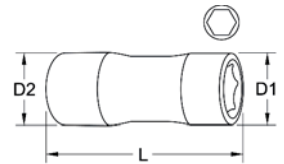
- 6-sided
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop
- Chrome vanadium



Article No.	Article Description	QTY
4446 1 14 5	1/4" HEX SOCK.WR.INS. SW 5	1
4446 1 14 6	1/4" HEX SOCK.WR.INS. SW 6	1
4446 1 14 7	1/4" HEX SOCK.WR.INS. SW 7	1
4446 1 14 8	1/4" HEX SOCK.WR.INS. SW 8	1
4446 1 14 9	1/4" HEX SOCK.WR.INS. SW 9	1
4446 1 14 10	1/4" HEX SOCK.WR.INS. SW 10	1
4446 1 14 11	1/4" HEX SOCK.WR.INS. SW 11	1
4446 1 14 12	1/4" HEX SOCK.WR.INS. SW 12	1
4446 1 14 13	1/4" HEX SOCK.WR.INS. SW 13	1
4446 1 14 14	1/4" HEX SOCK.WR.INS. SW 14	1

Technical Data

Ø mm	D1 mm	D2 mm	L mm
5	16.5	11.5	37.0
6	16.5	12.0	37.0
7	16.5	13.5	37.0
8	16.5	15.5	37.0
9	16.5	16.5	37.0
10	16.5	17.5	37.0
11	16.5	20.0	37.0
12	16.5	21.0	37.0
13	16.5	22.0	37.0
14	16.5	24.0	37.0



Socket 3/8“, long, 2-way insulation

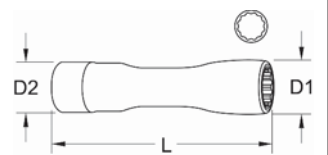
- 12-sided
- Flank traction profile
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Dipped insulation as per DIN EN 60900
- Chrome vanadium



Article No.	Article Description	QTY
4446 2 38 10	3/8" BIHEX PLUG NUT SW10	1
4446 2 38 11	3/8" BIHEX PLUG NUT SW11	1
4446 2 38 12	3/8" BIHEX PLUG NUT SW12	1
4446 2 38 13	3/8" BIHEX PLUG NUT SW13	1
4446 2 38 14	3/8" BIHEX PLUG NUT SW14	1
4446 2 38 17	3/8" BIHEX PLUG NUT SW17	1
4446 2 38 19	3/8" BIHEX PLUG NUT SW19	1
4446 2 38 22	3/8" BIHEX PLUG NUT SW22	1

Technical Data

SW mm	D1 mm	D2 mm	L mm
10	23.0	19.0	135.0
11	23.0	20.0	135.0
12	23.0	22.0	135.0
13	23.0	22.0	135.0
14	23.0	26.0	135.0
17	23.0	29.0	135.0
19	23.0	31.0	135.0
22	23.0	35.0	135.0



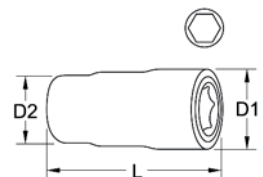
Socket wrench insert 1/2“, 55 mm, 2-way insul

- 6-sided
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Chrome vanadium



Technical Data

D1 mm	D2 mm	L mm
26.0	17.0	55.0
26.0	19.0	55.0
26.0	20.0	55.0
26.0	21.0	55.0
26.0	22.0	55.0
26.0	23.5	55.0
26.0	25.0	55.0
26.0	26.0	55.0
26.0	26.5	55.0
26.0	28.5	55.0
26.0	31.0	55.0
26.0	31.5	55.0
26.0	33.0	55.0
26.0	34.5	55.0
26.0	35.0	55.0
26.0	36.0	55.0
26.0	37.0	55.0
26.0	39.0	61.0
26.0	41.0	61.0
26.0	44.0	61.0
26.0	46.0	61.0
26.0	49.5	61.0



Socket wrench insert 1/2", 94 mm, 2-way insul

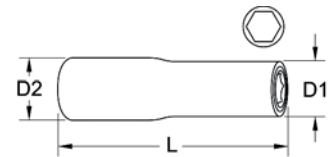
- 6-sided
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120 / ISO 1174 with ball stop groove
- Chrome vanadium



Article No.	Article Description	QTY
4446 2 12 8	1/2" HEX SOCK.WR.INS.SW 8	1
4446 2 12 10	1/2" HEX SOCK.WR.INS.SW 10	1
4446 2 12 11	1/2" HEX SOCK.WR.INS.SW 11	1
4446 2 12 12	1/2" HEX SOCK.WR.INS.SW 12	1
4446 2 12 13	1/2" HEX SOCK.WR.INS.SW 13	1
4446 2 12 14	1/2" HEX SOCK.WR.INS.SW 14	1
4446 2 12 15	1/2" HEX SOCK.WR.INS.SW 15	1
4446 2 12 16	1/2" HEX SOCK.WR.INS.SW 16	1
4446 2 12 17	1/2" HEX SOCK.WR.INS.SW 17	1
4446 2 12 18	1/2" HEX SOCK.WR.INS.SW 18	1
4446 2 12 19	1/2" HEX SOCK.WR.INS.SW 19	1
4446 2 12 21	1/2" HEX SOCK.WR.INS.SW 21	1
4446 2 12 22	1/2" HEX SOCK.WR.INS.SW 22	1
4446 2 12 23	1/2" HEX SOCK.WR.INS.SW 23	1
4446 2 12 24	1/2" HEX SOCK.WR.INS.SW 24	1
4446 2 12 27	1/2" HEX SOCK.WR.INS.SW 27	1
4446 2 12 30	1/2" HEX SOCK.WR.INS.SW 30	1
4446 2 12 32	1/2" HEX SOCK.WR.INS.SW 32	1

Technical Data

D1 mm	D2 mm	L mm
26.0	19.0	94.0
26.0	21.0	94.0
26.0	21.0	94.0
26.0	22.0	94.0
26.0	23.5	94.0
26.0	25.5	94.0
26.0	27.0	94.0
26.0	28.0	94.0
26.0	29.0	94.0
26.0	30.0	94.0
26.0	30.5	94.0
26.0	35.0	94.0
26.0	35.5	94.0
26.0	36.0	94.0
26.0	39.0	94.0
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26.0	46.5	94.0
26.0	48.5	94.0



Socket 3/8“, 2-way insulation

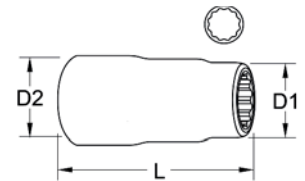
- Flank traction profile
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Inner socket drive as per DIN 3120/ISO 1174 with ball stop
- Chrome vanadium



Article No.	Article Description	QTY
4446 1 38 6	3/8" HEX SOCK.WR.INS. SW 6	1
4446 1 38 7	3/8" HEX SOCK.WR.INS. SW 7	1
4446 1 38 8	3/8" HEX SOCK.WR.INS. SW 8	1
4446 1 38 9	3/8" HEX SOCK.WR.INS. SW 9	1
4446 1 38 10	3/8" BIHEX SO.WR.INS. SW 10	1
4446 1 38 11	3/8" BIHEX SO.WR.INS. SW 11	1
4446 1 38 12	3/8" BIHEX SO.WR.INS. SW 12	1
4446 1 38 13	3/8" BIHEX SO.WR.INS. SW 13	1
4446 1 38 14	3/8" BIHEX SO.WR.INS. SW 14	1
4446 1 38 15	3/8" BIHEX SO.WR.INS. SW 15	1
4446 1 38 16	3/8" BIHEX SO.WR.INS. SW 16	1
4446 1 38 17	3/8" BIHEX SO.WR.INS. SW 17	1
4446 1 38 18	3/8" BIHEX SO.WR.INS. SW 18	1
4446 1 38 19	3/8" BIHEX SO.WR.INS. SW 19	1
4446 1 38 20	3/8" BIHEX SO.WR.INS. SW 20	1
4446 1 38 21	3/8" BIHEX SO.WR.INS. SW 21	1
4446 1 38 22	3/8" BIHEX SO.WR.INS. SW 22	1
4446 1 38 24	3/8" BIHEX SO.WR.INS. SW 24	1

Technical Data

SW mm	D1 mm	D2 mm	L mm
6	23.0	14.0	45.0
7	23.0	15.0	45.0
8	23.0	16.0	45.0
9	23.0	17.0	45.0
10	23.0	19.5	45.0
11	23.0	19.5	45.0
12	23.0	20.5	45.0
13	23.0	23.0	45.0
14	23.0	23.5	45.0
15	23.0	26.0	45.0
16	23.0	26.5	45.0
17	23.0	28.0	45.0
18	23.0	30.0	45.0
19	23.0	30.0	45.0
20	23.0	32.0	45.0
21	23.0	33.5	45.0
22	23.0	37.5	45.0
24	23.0	38.5	45.0



Socket wrench insert 1/2", 255 mm, 2-way insu

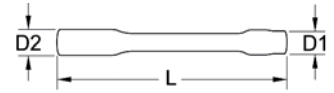
- 6-sided
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Chrome vanadium



Article No.	Article Description	QTY
4446 4 12 13	1/2" HEX PLUG NUT SW13	1
4446 4 12 14	1/2" HEX PLUG NUT SW14	1
4446 4 12 17	1/2" HEX PLUG NUT SW17	1
4446 4 12 19	1/2" HEX PLUG NUT SW19	1
4446 4 12 22	1/2" HEX PLUG NUT SW22	1
4446 4 12 24	1/2" HEX PLUG NUT SW24	1
4446 4 12 27	1/2" HEX PLUG NUT SW27	1
4446 4 12 30	1/2" HEX PLUG NUT SW30	1
4446 4 12 32	1/2" HEX PLUG NUT SW32	1

Technical Data

SW mm	D1 mm	D2 mm	L mm
13	26.0	23.5	255.0
14	26.0	25.5	255.0
17	26.0	29.0	255.0
19	26.0	30.5	255.0
22	26.0	35.5	255.0
24	26.0	39.0	255.0
27	26.0	42.0	255.0
30	26.0	46.5	255.0
32	26.0	48.5	255.0



Socket inch 1/2", 2-way insulation

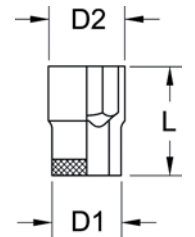
- 12-sided
- Flank traction profile
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Chrome vanadium



Article No.	Article Description	QTY
4446 5 12 516	1/2" BIHEX PLUG NUT 5/16"	1
4446 5 12 38	1/2" BIHEX PLUG NUT 3/8"	1
4446 5 12 716	1/2" BIHEX PLUG NUT 7/16"	1
4446 5 12 1532	1/2" BIHEX PLUG NUT 15/32"	1
4446 5 12 12	1/2" BIHEX PLUG NUT 1/2"	1
4446 5 12 58	1/2" BIHEX PLUG NUT 5/8"	1
4446 5 12 1116	1/2" BIHEX PLUG NUT 11/16"	1
4446 5 12 2532	1/2" BIHEX PLUG NUT 25/32"	1
4446 5 12 34	1/2" BIHEX PLUG NUT 3/4"	1
4446 5 12 1316	1/2" BIHEX PLUG NUT 13/16"	1
4446 5 12 78	1/2" BIHEX PLUG NUT 7/8"	1
4446 5 12 1516	1/2" BIHEX PLUG NUT 15/16"	1
4446 5 12 1	1/2" BIHEX PLUG NUT 1"	1
4446 5 12 118	1/2" BIHEX PLUG NUT 1.1/8"	1
4446 5 12 114	1/2" BIHEX PLUG NUT 1.1/4"	1

Technical Data

SW mm	D1 mm	D2 mm	L mm
5/16"	26,0	18,0	55,0
3/8"	26,0	19,5	55,0
7/16"	26,0	21,0	55,0
15/32"	26,0	21,5	55,0
1/2"	26,0	24,5	55,0
5/8"	26,0	26,0	55,0
11/16"	26,0	29,0	55,0
25/32"	26,0	29,5	55,0
3/4"	26,0	30,0	55,0
13/16"	26,0	34,5	55,0
7/8"	26,0	35,5	59,0
15/16"	26,0	38,0	59,0
1"	26,0	39,5	59,0
1.1/8"	26,0	45,0	59,0
1.1/4"	26,0	49,0	59,0



Bit-socket 1/4", 2-way insulation

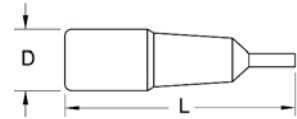
- Hexagon socket
- Dipped insulation as per Din 3120 / ISO 1174 with ball stop groove
- Female square drive as per DIN 3120 / ISO 11745 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 2 14 3	1/4" HEX PLUG NUT SW 3	1
4446 2 14 4	1/4" HEX PLUG NUT SW 4	1
4446 2 14 5	1/4" HEX PLUG NUT SW 5	1
4446 2 14 6	1/4" HEX PLUG NUT SW 6	1
4446 2 14 8	1/4" HEX PLUG NUT SW 8	1

Technical Data

Ø mm	D mm	L mm
3	16.5	44.0
4	16.5	44.0
5	16.5	44.0
6	16.5	44.0
8	16.5	44.0



Screwdriver bit 3/8", Allen, 2-way insul.

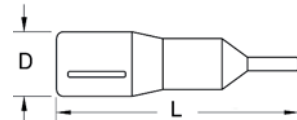
- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 11745 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 3 38 4	3/8" HEX SCR.DRIV.INS.SW 4	1
4446 3 38 5	3/8" HEX SCR.DRIV.INS.SW 5	1
4446 3 38 6	3/8" HEX SCR.DRIV.INS.SW 6	1
4446 3 38 8	3/8" HEX SCR.DRIV.INS.SW 8	1
4446 3 38 10	3/8" HEX SCR.DRIV.INS.SW10	1
4446 3 38 12	3/8" HEX SCR.DRIV.INS.SW12	1
4446 4 38 4	3/8" HEX SCR.DRIV.INS.SW 4	1
4446 4 38 5	3/8" HEX SCR.DRIV.INS.SW 5	1
4446 4 38 6	3/8" HEX SCR.DRIV.INS.SW 6	1
4446 4 38 8	3/8" HEX SCR.DRIV.INS.SW 8	1
4446 4 38 10	3/8" HEX SCR.DRIV.INS.SW10	1
4446 4 38 12	3/8" HEX SCR.DRIV.INS.SW12	1
4446 5 38 5	3/8" HEX SCR.DRIV.INS.SW 5	1
4446 5 38 6	3/8" HEX SCR.DRIV.INS.SW 6	1
4446 5 38 8	3/8" HEX SCR.DRIV.INS.SW 8	1
4446 5 38 10	3/8" HEX SCR.DRIV.INS.SW10	1

Technical Data

SW mm	D mm	L mm
4	23.0	82.0
5	23.0	82.0
6	23.0	82.0
8	23.0	82.0
10	23.0	82.0
12	23.0	82.0
4	23.0	116.0
5	23.0	116.0
6	23.0	116.0
8	23.0	116.0
10	23.0	116.0
12	23.0	116.0
5	23.0	270.0
6	23.0	270.0
8	23.0	270.0
10	23.0	270.0



Screwdriver bit 3/8", XZN, 2-way insul.

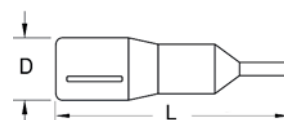
- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 11745 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 6 38 8	3/8" XZN SCR.DRIV.INS. M 8	1
4446 6 38 10	3/8" XZN SCR.DRIV.INS. M10	1
4446 6 38 12	3/8" XZN SCR.DRIV.INS. M12	1

Technical Data

Drive mm	SW mm	D mm	L mm
3/8"	M8	23.0	95.0
3/8"	M10	23.0	95.0
3/8"	M12	23.0	95.0



Screwdriver bit 1/2", 95 mm, 2-way insul.

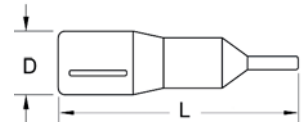
- Allen
- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 6 12 4	1/2" HEX SCR.DRIV.INS.SW 4	1
4446 6 12 5	1/2" HEX SCR.DRIV.INS.SW 5	1
4446 6 12 6	1/2" HEX SCR.DRIV.INS.SW 6	1
4446 6 12 8	1/2" HEX SCR.DRIV.INS.SW 8	1
4446 6 12 10	1/2" HEX SCR.DRIV.INS.SW10	1
4446 6 12 12	1/2" HEX SCR.DRIV.INS.SW12	1
4446 6 12 14	1/2" HEX SCR.DRIV.INS.SW14	1
4446 6 12 17	1/2" HEX SCR.DRIV.INS.SW17	1
4446 6 12 19	1/2" HEX SCR.DRIV.INS.SW19	1

Technical Data

SW mm	D mm	L mm
4	26.0	95.0
5	26.0	95.0
6	26.0	95.0
8	26.0	95.0
10	26.0	95.0
12	26.0	95.0
14	26.0	95.0
17	26.0	95.0
19	26.0	95.0



Screwdriver bit 1/2", 118 mm, 2-way insulation

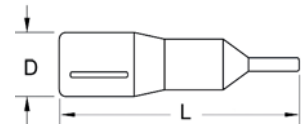
- Allen
- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 7 12 4	1/2" HEX SCR.DRIV.INS.SW 4	1
4446 7 12 5	1/2" HEX SCR.DRIV.INS.SW 5	1
4446 7 12 8	1/2" HEX SCR.DRIV.INS.SW 8	1
4446 7 12 10	1/2" HEX SCR.DRIV.INS.SW10	1
4446 7 12 12	1/2" HEX SCR.DRIV.INS.SW12	1

Technical Data

SW mm	D mm	L mm
4	26.0	118.0
5	26.0	118.0
8	26.0	118.0
10	26.0	118.0
12	26.0	118.0



Screwdriver bit 1/2", 207 mm, 2-way insulation

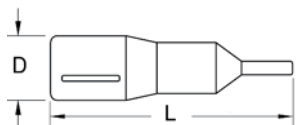
- Allen
- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 8 12 5	1/2" HEX SCR.DRIV.INS.SW 5	1
4446 8 12 6	1/2" HEX SCR.DRIV.INS.SW 6	1
4446 8 12 8	1/2" HEX SCR.DRIV.INS.SW 8	1
4446 8 12 10	1/2" HEX SCR.DRIV.INS.SW10	1

Technical Data

SW mm	D mm	L mm
5	26.0	267.0
6	26.0	267.0
8	26.0	267.0
10	26.0	267.0



Impact socket set 1/2", 86 mm

- 3-piece for alloy rims
- length: 86 mm



Your Advantage / Benefit

- coloured differentiation of individual socket width
- up to 150 % longer life compared to conventional impact nuts for alloy rims
- can still be used due the brass ring, if the nut breaks

Application

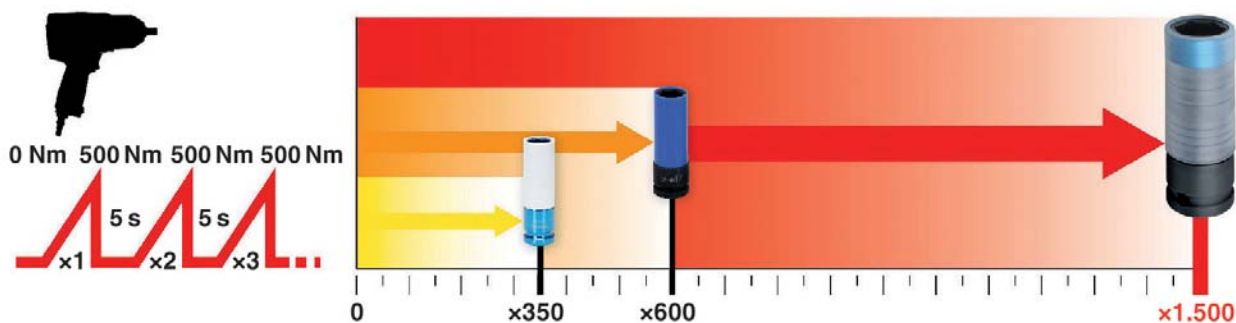
- plastic coated impact socket inserts 1/2" for the safe assembly and disassembly of alloy rims without damaging them



Article No.	Article Description	QTY
4571 12 92	1/2" KR.-SOCK.WR.SET 3-P PLAST.	1

Each contains 1x:

- 1/2" impact socket 86 mm SW 17 blue
- 1/2" impact socket 86 mm SW 19 yellow
- 1/2" impact socket 86 mm SW 21 red



Related Products

- Torque Wrench with Ratchet
Art.-No. 4645 12 60 320 2



- Max Impact-Screwdriver
1/2" 1.700 Nm FÖRCH
Art.-No. 5350 9012 5



- Knittle Glove Latex, Partially Coated
Art.-No. 5405 133 7-11



Power socket set

- for alloy rims

Article No.	Article Description	QTY
4571 12 15 2	1/2"KRAFT-SO.WR.86MM SW15 GREE	1
4571 12 17 2	1/2"KRAFT-SO.WR.86MM SW17 BLUE	1
4571 12 19 2	1/2"KRAFT-SOCK.WR.86MM SW19 YEL	1
4571 12 21 2	1/2"KRAFT-SOCK.WR.86MM SW21RED	1
4571 12 22 2	1/2"KRAFT-SOCK.WR.86MM SW22	1



Impact socket set 1/2", 110 mm **FÖRCH*******

- plastic coated impact socket inserts 1/2" for the safe assembly and disassembly of alloy rims without damaging them
- length: 110 mm
- coloured differentiation of the individual socket widths

Article No.	Article Description	QTY
4571 12 17 50	1/2"KRAF-SO.WR.SW17 BLU110MM5*	1
4571 12 19 50	1/2"KRAF-SO.WR.SW19 RED110MM5*	1



4571 12 17 50 4571 12 19 50

Kraft Socket Wrench Insert Plastic Sleeves SW17

- suitable for Kraft socket wrench insert 110 mm

Article No.	Article Description	QTY
4571 12 17 50 1	PLASTIC SLEEVE FOR SW 17 SZ	1
4571 12 19 50 1	PLASTIC SLEEVE FOR SW 19 SZ	1



Kraft Socket Wrench Insert MS 17

- Plastic coated impact socket inserts 1/2" for the safe assembly and disassembly of alloy rims without damaging them
- Length: 88 mm

Art.-No. 4571 12 17 6:

- for Mercedes-wheel bolts with special profile 17 mm

Art.-No. 4571 12 21 6:

- For Kia, Hyundai (i30, ix5, Tucson) with special profile 19 mm

Article No.	Article Description	QTY
4571 12 17 6	1/2"KRAFT-SO.WR.SZ88MM MS17	1
4571 12 21 6	1/2"KRAFT-SO.WR.SZ86MM MS21	1



Power socket set plastic sleeves

- suitable for 86 mm power socket sets

Article No.	Article Description	QTY
4571 12 15 2 1	REPLA.PLASTIC CASING FOR SW15	1
4571 12 17 2 1	REPLA.PLASTIC CASING FOR SW17	1
4571 12 19 2 1	REPLA.PLASTIC CASING FOR SW19	1
4571 12 21 2 1	REPLA.PLASTIC CASING FOR SW21	1
4571 12 22 2 1	REPLA.PLASTIC CASING FOR SW22	1



Kraft - Socket Wrench Insert 1/2", 86 mm **ECO**

- 3-piece for alloy rims
- Plastic covered Kraft socket wrench inserts 1/2" for safe assembly and disassembly of alloy rims without risk of damage
- Length: 86 mm
- Wrench sizes with different colours

Article No.	Article Description	QTY
4571 12 90	1/2"KR.-SO.WR.SET 3-P PLAS.ECO	1

Contents:

- 1/2" Kraft socket wrench insert 86 mm SW 17 blue
- 1/2" Kraft socket wrench insert 86 mm SW 19 yellow
- 1/2" Kraft socket wrench insert 86 mm SW 21 red



Kraft - Socket Wrench Insert 1/2", 86 mm **ECO**

- 3-part for alloy rims
- Plastic mantled Kraft socket wrench inserts 1/2" for safe assembly and disassembly of alloy rims without damaging
- Length: 86 mm
- Distinction of the wrench width based on colour

Article No.	Article Description	QTY
4571 12 15 1	1/2"KRAFT-SOCK.WR.86MM SW15ECO	1
4571 12 17 1	1/2"KRAFT-SOCK.WR.86MM SW17ECO	1
4571 12 19 1	1/2"KRAFT-SOCK.WR.86MM SW19ECO	1
4571 12 21 1	1/2"KRAFT-SOCK.WR.86MM SW21ECO	1
4571 12 22 1	1/2"KRAFT-SOCK.WR.86MM SW22ECO	1



Power socket set, 1/2" **ECO**

- Including Mercedes special socket, size 17

Article No.	Article Description	QTY
4495 4571	POWER SOCKET SET 1/2" ECO	1

Contents:

- 1x MS 17, 1x size 15, 2x size 17, 2x size 19, 1x size 21, 1x size 22



Kraft-Socket Wrench Set 1/2", 150 mm

- 3-piece for alloy rims
- Plastic covered 1/2" socket wrench inserts for safe assembly and disassembly of alloy rims
- Length: 150 mm
- Head size with different colours
- No torque falsification due to the use of extensions

Article No.	Article Description	QTY
4571 12 150	1/2" XL KRAFT-NUT SET 3-PIECE	1

Set includes:

- 1/2" Kraft-wrench 150 mm SW 17 blue
- 1/2" Kraft-wrench 150 mm SW 19 yellow
- 1/2" Kraft-wrench 150 mm SW 21 red
- Replacement plastic casing for SW 17/19/21



Kraft - Socket Wrench Insert 1/2", 150 mm

- For alloy rims

Article No.	Article Description	QTY
4571 12 150 17	1/2"KRAFT SO.WR.INS.150MM SW17	1
4571 12 150 19	1/2"KRAFT SO.WR.INS.150MM SW19	1
4571 12 150 21	1/2"KRAFT SO.WR.INS.150MM SW21	1



Kraft-Plastic Casings for Wrench Socket Insert

- Suitable for Kraft wrench socket inserts 86 mm and 150 mm

Article No.	Article Description	QTY
4571 12 15 55	PLASTIC CASING FOR SW15 ID21MM	1
4571 12 17 55	PLASTIC CASING FOR SW17 ID24MM	1
4571 12 19 55	PLASTIC CASING FOR SW19 ID26MM	1
4571 12 21 55	PLASTIC CASING FOR SW21 ID29MM	1



Rotation Angle-Analyser

- Maximum-capacity approx. 390 Nm
- Scale gradations 0 - 360°
- Square drive 1/2", square output 1/2"

Article No.	Article Description	QTY
4641 12 9	ROTATION ANGLE-ANALYSER 1/2"	1



Digital rotating protractor

- $\pm 2\%$ accuracy
- Fine resolution (0.1°)
- Rotation measurements clockwise and anti-ClockWise
- 99 memory locations
- Battery charge display
- LED alarm display (blinking) when the set rotation angle is reached
- Acoustic warning signal
- Automatic switch-off
- Dimensions (LxWxD): 75 mm x 45 mm x 30 mm

Examples of application:

- Expansion bolts, cylinder heads, crankshafts, differentials, positioning of tools in the construction of facilities, etc.

Application:

- Push the pipe-holding device or magnetic plate onto the rotating protractor and attach it to the tool
- Set rotation angle and activate with the + button A yellow LED signals that an angle from 80 % to 90 % has been set
- A green LED signals that an angle from 90 % to 98 % has been set
- A red LED signals an angle over 100 %
- In addition, a signal tone will sound when the rotation angle set has been reached

Article No.	Article Description	QTY
4641 4	DREHWINKEL-MESSGERÄT DIGI.4TLG	1

Contents:

- 2x AAA batteries
- 1x magnetic plate
- 1x pipe-holding device, small
- 1 pipe-holding device, large



Torque Wrench with Reverse Ratchet **FÖRCH*******



- big display in the viewing window guarantees safety for the user
- $\pm 4\%$ activation-exactness of the set values (in direction of actuation) according to DIN EN ISO 6789:2003
- torque release can be sensed - by short distance activation, and heard by „click noise“
- DBGM, EP approved
- user-friendly reverse ratchet
- robust and durable hard-chromium plated steel construction, slim
- integrated reverse lever with freewheel function and ergonomically formed handle with thickening at the end prevent slipping and risk of injury
- safe handle locking - no clamping risk
- quick and easy setting of required torque value by turning the handle
- safe and precise setting of required activation value
- optimum and easy reading of torque value
- three-digit, big figures for readable torque value setting
- big and convex window (replaceable) optimizes the reading
- with serial number and certificate



simple and exact setting and readability of the torque value due to a big display in the viewing window

Article No.	Article Description	QTY
4645 12 20 1201	1/2"TORQUE WRENCH 5* 20-120NM	1
4645 12 40 2001	1/2"TORQUE WRENCH 5* 40-200NM	1
4645 12 60 3201	1/2"TORQUE WRENCH 5* 60-320NM	1

Technical Data

Measuring range Nm	Weight g	Length mm	Note
20-120	1800	438	Reverse ratchet
40-200	2100	545	Reverse ratchet
60-320	2400	600	Reverse ratchet

Torque wrench repair set

Application

Art.-No.	For Art.-No.	Art. Description
4645 12 1	4645 12 40 200	1/2" torque wrench 40 -200 NM
4645 12 60 3201	4645 12 60 320	1/2" torque wrench 60 -320 NM

Article No.	Article Description	QTY
4645 12 1	REP.SET F.1/2"TORQUE WRENCH	1



Torque Wrench „BLACK“ with Ratchet

- For professional use on vehicles, in industry and in construction

Your Advantage / Benefit

- Simple adjustment of the torque value by turning the handle
- Very good handling properties as a result of the two-component handle
- Version with ratchet switch-over head for controlled clockwise tightening and with anti-clockwise blocking without torque wrench function
- Large viewing window with magnifying glass for precise setting and reading of the torque
- Micrometer scale for fine and precise setting
- Good repeatability and precise up to 5,000 load changes, the scale is shown in Nm and Lbf-ft
- $\pm 3\%$ triggering precision from the scale value
- Certified in accordance with DIN EN ISO 6789:2003

Application

- For tightening and releasing of screwed fittings, such as wheel nuts



Technical Data

Art.-No.	Measuring range Nm	Measuring range ft. Lb.	Weight kg	Length mm	Note
4645 14 1 25 2	1 – 25	0.8 – 18	0.46	289	Switch-over
4645 38 5 50 2	5 – 50	4 – 37	0.61	350	Switch-over
4645 38 10 110 2	10 – 110	8 – 70	0.91	412	Switch-over
4645 12 10 100 2	10 – 100	8 – 75	0.91	412	Switch-over
4645 12 20 200 2	20 – 200	15 – 150	1.3	500	Switch-over
4645 12 60 320 2	60 – 320	45 – 236	1.45	585	Switch-over

Article No.	Article Description	QTY
4645 14 1 25 2	1/4"TORQUE WR.BLACK 1-25NM	1
4645 38 5 50 2	3/8"TORQUE WRENCH BLACK 5-50NM	1
4645 38 10 110 2	3/8"TORQUE WR.BLACK 10-110NM	1
4645 12 10 100 2	1/2"TORQUE WRENCH BL. 10-100NM	1
4645 12 20 200 2	1/2"TORQUE SPANNER BL.20-200NM	1
4645 12 60 320 2	1/2"TORQUE WRENCH BL.60-320NM	1

„BLACK“ Torq. Wr. w.Ratch.Switch-over square Conn.

- For professional use on vehicles, in industry and in construction



Your Advantage / Benefit

- Simple adjustment of the torque value by turning the handle
- Very good handling as a result of two-component handle
- Simple switch-over of square connector gives switching from controlled clockwise and anti-clockwise tightening
- Large viewing window with magnifying glass for precise setting and reading of the torque
- Micrometer scale for fine and precise setting
- Repeatability and precision at up to 5,000 load changes
- The scale is shown in Nm and Lbf-ft
- $\pm 3\%$ triggering precision from the scale value
- Certificated in accordance with DIN EN ISO 6789:2003

Application

- For tightening and releasing of screwed fittings, such as wheel nuts



Technical Data

Art.-No.	Measuring range Nm	Measuring range ft. Lb.	Weight kg	Length mm	Note
4645 14 1 25 4	1 – 25	0,8 – 18	0,46	289	Switch-over square
4645 38 5 50 4	5 – 50	4 – 37	0,61	350	Switch-over square
4645 12 10 100 4	10 – 100	8 – 75	0,91	412	Switch-over square
4645 12 20 200 4	20 – 200	15 – 150	1,3	500	Switch-over square
4645 12 60 320 4	60 – 320	45 – 236	1,45	585	Switch-over square
4645 34 100 550 4	100 – 550	75 – 405	3,8	960	Switch-over square
4645 1 300 1000 4	200 – 1.000	150 – 730	5,8	1.500	Switch-over square

Article No.	Article Description	QTY
4645 14 1 25 4	SQUARE TORQ. WR. SW. OV. 1-25 NM	1
4645 38 5 50 4	3/4" TORQ. WR. SW. BLACK 5-50 NM	1
4645 12 10 100 4	1/2" TORQ. WR. SW. BLACK 10-100NM	1
4645 12 20 200 4	1/2" TORQ. WR. SW. BLACK 20-200NM	1
4645 12 60 320 4	1/2" TORQ. WR. SW. BLACK 60-320NM	1
4645 34 100 550 4	3/4" TORQ. WR. SW. BLACK 100-550NM	1
4645 1300 1000 4	1" TORQ. WR. SW. BLACK 200-1000NM	1

Torque wrench „Black“ repair kit

Application

Art.-No.	suitable for Art.-No.	Art.-Description
4645 14 25 2	4645 14 1 25 2	1/4" torque wrench 1 – 25 Nm
4645 38 110 2	4645 38 10 110 2	3/8" torque wrench 10 – 110 Nm
	4645 38 550 2	3/8" torque wrench 5 – 50 Nm
4645 12 320 2	4645 12 10 100 2	1/2" torque wrench 10 – 100 Nm
	4645 12 20 200 2	1/2" torque wrench 20 – 200 Nm
	4645 12 60 320 2	1/2" torque wrench 60 – 320 Nm

Article No.	Article Description	QTY
4645 14 25 2	REP.KIT1/4"TORQ.WR.25MM BL	1
4645 38 110 2	REP.KIT3/8"TORQ.WR.50-110 BL	1
4645 12 320 2	REP.KIT1/2"TORQ.WR.100-320 BL	1



Torque Wrench Repair Kit Replug

Application

Art.-No.	suitable for Art.-No.	Art.-Description
4645 14 25 4	4645 14 1 25 4	1/4" torque wrench. 1 – 25 Nm
4645 12 320 4	4645 38 5 50 4	3/8" torque wrench replug 5 – 50 Nm
	4645 12 10 100 4	1/2" torque wrench replug 10 – 100 Nm
	4645 12 20 200 4	1/2" torque wrench replug 20 – 200 Nm
	4645 12 60 320 4	1/2" torque wrench. replug 60 – 320 Nm
4645 34 550 4	4645 34 100 550 4	3/4" torque wrench replug 100 – 550 Nm
4645 1 1000 4	4645 1 300 1000 4	1" torque wrench replug 300 – 1.000 Nm

Article No.	Article Description	QTY
4645 14 25 4	REP.KIT1/4"TORQUE REPLUG 25NM	1
4645 12 320 4	REP.KIT1/2"TORQUE REPLUG 320NM	1
4645 34 550 4	REP.KIT3/4"TORQUE REPLUG 550NM	1
4645 1 1000 4	REP.KIT 1" TORQUE REPLUG1000NM	1



Through square mushroom head

Application

Art.-No.	Suitable for Art.-No.	Art.-Description
4645 38 14 0	4645 14 1 25 4	1/4" Torque wrench 1 – 25 Nm
4645 12 38 0	4645 38 5 50 4	3/8" Torque wrench repl 5 – 50 Nm
4645 12 0	4645 12 10 100 4	1/2" Torque wrench repl. 10 – 100 Nm
	4645 12 20 200 4	1/2" Torque wrench repl. 20 – 200 Nm
	4645 12 60 320 4	1/2" Torque wrench repl. 60 – 320 Nm

Article No.	Article Description	QTY
4645 38 14 0	MUSHROOM HEAD 3/8" TO 1/4"	1
4645 12 38 0	MUSHROOM HEAD 1/2" TO 3/8"	1
4645 12 0	MUSHROOM HEAD 1/2"	1



4645 38 14 0

4645 12 38 0

4645 12 0

Torque Wrench with Reverse Ratchet



- High accuracy of $\pm 4\%$ of the set values
- Easy and precise setting due by turning the grip
- All wrenches with through square drive are suitable for all left and right hand torques
- Audible and traceable signals
- Certificated according to DIN

Technical Data:

Art. No.	Measuring range Nm	Measuring range ft. Lb.	Weight g	Length mm	Note
4645 14 1 25	1 - 25	1,5 - 18	350	285	Reverse ratchet
4645 38 10 1102	10 - 110	8 - 80	1050	410	Reverse ratchet
4645 12 40 200	40 - 200	-	1166	520	Reverse ratchet
4645 12 60 3202	60 - 320	-	-	580	Reverse ratchet
4645 34	110 - 550	82 - 410	4000	845	Through square drive
4645 34 1000	300 - 1000	225 - 740	5800	1750	Through square drive, incl. extension
4645 1	500 - 1500	370 - 1150	6700	2070	Through square drive, incl. extension

Article No.	Article Description	QTY
4645 12 40 200	1/2" TORQUE WRENCH 40-200NM	1
4645 34	3/4" TORQUE WRENCH 110-550NM	1
4645 34 1000	3/4" TORQUE WRENCH 300-1000NM	1
4645 1	1" TORQUE WRENCH 500-1500NM	1

Torque wrench repair set

Application

Art.-No.	For Art.-No.	Art. Description
4645 12 1	4645 12 40 200	1/2" torque wrench 40 -200 NM
4645 12 60 3200	4645 12 60 320	1/2" torque wrench 60 -320 NM

Article No.	Article Description	QTY
4645 12 1	REP.SET F.1/2"TORQUE WRENCH	1



Torque Wrench



4645 730 2



4645 730 5, 4645 730 10, 4645 730 20, 4645 730 40,

- Robust, mat chromed steel tube housing
- Robust plastic handle
- Insert tools snap in securely
- Visual, acoustical and tangible perception of the torque release and double stop signal
- Load of the measurement elements only during the tightening procedure; barely any mechanical wear
- No need to restore the setting to „0“
- High precision and long-term display accuracy of $\pm 4\%$ including certificate of manufacturer
- Quick adjustment without force using the scale slider

Technical Data

Art.-No.	Measur. range Nm	Measur. range ft. Lb	Scale division	Length mm
4645 730 2	4 - 20	-	0.5 Nm	174
4645 730 5	6 - 50	5 - 36	2 Nm/1 ft. Lb	315
4645 730 10	20 - 100	15 - 72.5	2.5 Nm/2.5 ft. Lb	370
4645 730 20	40 - 200	30 - 145	5 Nm/5 ft. Lb	455
4645 730 40	80 - 400	60 - 300	10 Nm/10 ft. Lb	590

Article No.	Article Description	QTY
4645 730 2	BASIC DEVICE 4-20NM 9X12MM	1
4645 730 5	BASIC DEVICE 6-50NM 9X12MM	1
4645 730 10	BASIC DEVICE 20-100NM 9X12MM	1
4645 730 20	BASIC DEVICE 40-200NM 14X18MM	1
4645 730 40	BASIC DEVICE 80-400NM 14X18MM	1

Reverse Ratchet Lever

Article No.	Article Description	QTY
4645 725 4	1/4"INSERT.TOOL REV.RAT.9X12MM	1



Reverse Ratchet Disc

Article No.	Article Description	QTY
4645 735 5	3/8"INS.RATCHET SIZE 5 9X12MM	1
4645 735 10	1/2"INS.RATCHET SIZE10 9X12MM	1
4645 735 20	1/2"INS.RATCHET SIZE20 14X18MM	1
4645 735 40	3/4"INS.RATCHET SIZE40 14X18MM	1



Repair kit for Ins.Ratchet Disk

- Repair kit for Art.-No. 4645 735 20

Article No.	Article Description	QTY
4645 735 20 1	REP.KIT1/2"INS.RATCHET 735 20	1



Torque Wrench



4641 14



4641 38, 4641 12, 4641 12 300



4641 1, 4641 34

- High precision and an accuracy of $\pm 3\%$ to the adjusted value in each case
- Easy and exact adjustability due to turning of the handle
- Double scale in Nm and ft. lb.
- Audible and sensible sense of torque release
- Manufacturer testing certification according to DIN

Art. No. 4641 14

- Glass fibre reinforced plastic housing, oil and fuel resistant, for right-handed threads

Art. No. 4641 12, 4641 12 300, 4641 38

- Light-metal housing with square for right-handed threads

Art. No. 4641 1, 4641 34

- Light-metal housing with double-square for left and right-handed threads

Technical Data

Art. No.	Measur. range Nm	Measur. range ft. Lb.	Weight kg	Length mm	Annotation
4641 14	2 - 12	10 - 100	250	185	
4641 38	8 - 40	70 - 350	900	340	
4641 12	40 - 200	30 - 150	1400	553	
4641 12 300	50 - 300	35 - 220	1600	618	
4641 34	140 - 760	100 - 550	2900	812	
4641 1	750 - 2000	-	11100	1998	with extension bar

Article No.	Article Description	QTY
4641 14	TORQUE SPANNER 1/4" 2-12NM	1
4641 38	TORQUE SPANNER 3/4" 8-40NM	1
4641 12	TORQUE SPANNER 1/2" 40-200NM	1
4641 12 300	TORQUE SPANNER 1/2" 50-300NM	1
4641 34	TORQUE SPANNER 3/4" 140-760NM	1
4641 1	TORQUE SPANNER 1" 750-2000NM	1

Slip-on Ratchet

- Clockwise for the rational use of torque wrench

Article No.	Article Description	QTY
4641 12 1	SLIP-ON RATCHET 1/2"	1
4641 34 1	SLIP-ON RATCHET 3/4"	1
4641 1 1	SLIP-ON RATCHET 1"	1



Through Square

Article No.	Article Description	QTY
4645 77 3094	3/8"THROUGH SQUARE L.29MM	1
4645 77 1994	1/2"THROUGH SQUARE L.38MM	1
4645 77 1933	1/2"THROUGH SQUARE L.43MM	1
4645 77 3294	3/4"THROUGH SQUARE L.51MM	1



Torque wrench system 6000 CT

- accuracy of the scale value (in actuating direction) according to DIN EN ISO 6789:2003 (D)
- ideally suitable for industrial climbers
- in the pocket - carry in your hand or on your back (art. no. 4645 34 400 and art. no. 4645 34 800 in safe box)
- can be dismounted using an unlocking tool (except art. no. 4645 34 400 and art. no. 4645 34 800)
- with serial number and certificate



Technical Data

Art.-No.	drive	test range Nm	length mm	tolerance ± %	division Nm	release force	weight kg	note
4645 34 400	3/4"	100-400	803	2	2.5	580N at 400 Nm	5	one-part
4645 34 800	3/4"	300-800	1280	2	2.5	685 N at 800 Nm	8.3	one-part
4645 34 1000 1	3/4"	400-1000	1788	3	5	590 N at 1000 Nm	10	two-part
4645 1 1600	1"	600-1600	2455	3	5	685 N at 1600 Nm	14	two-part
4645 1 2000	1"	800-2000	3034	4	6	685 N at 2000 Nm	18	two-part

Article No.	Article Description	QTY
4645 34 400	3/4" TORQUE WRENCH 100-400NM	1
4645 34 800	3/4" TORQUE WRENCH 300-800NM	1
4645 34 1000 1	3/4" TORQUE WRENCH 400-1000NM	1
4645 1 1600	1" TORQUE WRENCH 500-1600NM	1
4645 1 2000	1" TORQUE WRENCH 500-2000NM	1

Torque wrench with ratchet 1/4", 2-way insul.

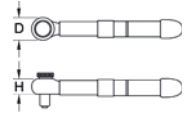
- Dipped insulation as per DIN EN 60900
- For working with voltage of AC 1000 V and DC 1500 V
- Tripping accuracy: $\pm 3\%$ tolerance of scale values set
- A high degree of repeated accuracy and precision in a minimum of 5,000 load changes
- For controlled right-tightening
- Left turn lock - unrestricted release point without torque function
- Clearly audible and palpable torque release through short-cut release
- With robust 30-tooth ratchet mechanism
- Ergonomic handle design for safe torque transmission
- Square drive as per DIN 31 20/ISO 1174 with ball stop
- Individual serial number for clear product identification
- Includes certificate as per DIN EN ISO 6789 - traceable back to national norms



Article No.	Article Description	QTY
4646 14 2 12	1/4" TORQUE WRENCH 2-12 NM	1
4646 14 5 25	1/4" TORQUE WRENCH 5-25 NM	1

Technical Data

Drive mm	Nm	D mm	H mm
1/4"	2 - 12	40.0	41.0
1/4"	5 - 25	40.0	41.0



Torque wrench with ratchet 3/8", 2-way insul.

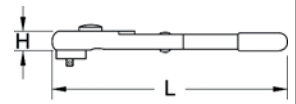
- Dipped insulation as per DIN EN 60900
- For working with voltage of AC 1000 V and DC 1500 V
- For tripping accuracy: $\pm 3\%$ tolerance from scale values set
- A high degree of repeated accuracy and precision in a minimum of 5,000 load changes
- For controlled right-tightening
- Left turn lock - unrestricted release point without torque function
- Scale in Nm division for precise setting
- Large display window optimises readability
- Clearly audible and palpable torque release through short-cut release
- With sturdy 30-teeth ratchet mechanism
- Square drive as per DIN 31 3120 / ISO 1174 with ball stop
- Individual serial number for clear product identification
- Includes certificate as per DIN EN ISO 6789 - traceable back to national norms



Article No.	Article Description	QTY
4646 38 2 27	3/8" TORQUE WRENCH 2-27 NM	1
4646 38 5 50	3/8" TORQUE WRENCH 5-50 NM	1

Technical Data

Drive mm	Nm	H mm	L mm
3/8"	2 - 27	51.0	280.0
3/8"	5 - 50	51.0	370.0



Torque wrench with ratchet 1/2", 2-way insul.

- Dipped insulation as per DIN EN 60900
- For working with voltage of AC 1000 V and DC 1500 V
- Tripping accuracy: $\pm 3\%$ tolerance of the set scale value
- A high degree of repeated accuracy and precision in a minimum of 5,000 load changes
- For controlled right-tightening
- Left turn lock - unrestricted release point without torque function
- Scale in Nm division for precise setting
- Large display window optimises readability
- Clearly audible and palpable torque release through short-cut release
- With robust 30-tooth ratchet mechanism
- Quick and secure torque setting by turning the handle
- Square drive as per DIN 31 20/ISO 1174 with ball stop
- Individual serial number for clear product identification
- Includes certificate as per DIN EN ISO 6789 - traceable back to national norms



Technical Data

Drive mm	Nm	H mm	L mm
1/2"	2 - 27	61.0	280.0
1/2"	5 - 50	61.0	370.0
1/2"	20 - 100	61.0	460.0
1/2"	40 - 220	61.0	530.0



Article No.	Article Description	QTY
4646 12 2 27	1/2" TORQUE WRENCH 2-27 NM	1
4646 12 5 50	1/2" TORQUE WRENCH 5-50 NM	1
4646 12 20 100	1/2" TORQUE WRENCH 20-100NM	1
4646 12 40 200	1/2" TORQUE WRENCH 40-200NM	1

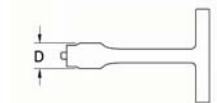
T-handled torque limiter 3/8", 2-way insul.

- Dipped insulation as per DIN EN 60900
- For working with currents of AC 1000 V and DC 1500 V
- High degree of accuracy
- For controlled right-tightening
- Clearly palpable torque release on over-ratcheting
- It is impossible to exceed the set value
- Without a scale - values may be firmly set
- Left turn lock - unrestricted release point without torque function
- Square drive as per DIN 31 3120/ISO 1174 with ball stop



Technical Data

Drive1 mm	Drive2 mm	Nm	D mm
3/8"	3/8"	12	36.5
3/8"	3/8"	18	36.5
3/8"	3/8"	25	36.5



Article No.	Article Description	QTY
4646 38 12	3/8" T-HAND.TORQ.LIMI. 12NM	1
4646 38 18	3/8" T-HAND.TORQ.LIMI. 18NM	1
4646 38 25	3/8" T-HAND.TORQ.LIMI. 25NM	1

Torque limiting aiming jig 3/8", 2-way insul.

- Dipped insulation as per DIN EN 60090
- For working under currents of AC 1000 V and DC 1500 V
- High degree of exactness
- For controlled right-tightening
- Clearly palpable torque release via over-ratcheting
- Impossible to exceed the set value
- Without a scale - values may be firmly set
- Left turn lock - unrestricted release point without torque function
- Square drive as per DIN 31 3120/ISO 1174 with ball stop



Technical Data

Drive 1 mm	Drive 2 mm	Nm	D1 mm
3/8"	3/8"	12	23.0
3/8"	3/8"	18	23.0
3/8"	3/8"	25	23.0



Article No.	Article Description	QTY
4646 38 12 1	3/8" TORQUE LIMITER 12NM	1
4646 38 18 1	3/8" TORQUE LIMITER 18NM	1
4646 38 25 1	3/8" TORQUE LIMITER 25NM	1

Double-Socket Wrench

- Very large version with hexagon shaft for operation with spin-type handle or fork spanner
- Continuously drilled
- Chrome-vanadium, chrome-plated



Article No.	Article Description	QTY
4635 6 7	HEXAGON DOUBLE-SOCK.WRENCH 6X7	1
4635 8 9	HEXAGON DOUBLE-SOCK.WRENCH 8X9	1
4635 10 11	HEX.DOUBLE-SOCK.WRENCH 10X11	1
4635 12 13	HEX.DOUBLE-SOCK.WRENCH 12X13	1
4635 14 15	HEX.DOUBLE-SOCK.WRENCH 14X15	1
4635 16 17	HEX.DOUBLE-SOCK.WRENCH 16X17	1
4635 18 19	HEX.DOUBLE-SOCK.WRENCH 18X19	1
4635 20 22	HEX.DOUBLE-SOCK.WRENCH 20X22	1
4635 21 23	HEX.DOUBLE-SOCK.WRENCH 21X23	1
4635 24 27	HEX.DOUBLE-SOCK.WRENCH 24X27	1

(SW mm)

Technical Data

Art. No.	Length mm
4635 6 7	105
4635 8 9	110
4635 10 11	120
4635 12 13	140
4635 14 15	145
4635 16 17	155
4635 18 19	165
4635 20 22	175
4635 21 23	185
4635 24 27	195

Double-Socket Wrench Set

- 8-piece

Article No.	Article Description	QTY
4637 8	HEX.DOUBLE-SOCK.WREN.SET 8-PCS	1

Set includes:

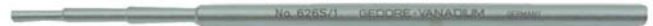
- 1x SW: 6x7 / 8x9 / 10x11 / 12x13 / 14x15 / 16x17 / 18x19 / 20x22



Stepped Cross Bar

- From 6x7 to 30x32
- Length: 280 mm

Article No.	Article Description	QTY
4636 1	STEPPED CROSS BAR 280MM	1 z



Hex Pipe Wrench

- Hexagonal at both sides
- Short side open for e.g. cross bar or long threads
- Chrome-vanadium

Article No.	Article Description		QTY
4639 4 6	HEX PIPE WRENCH	6MM	1
4639 4 7	HEX PIPE WRENCH	7MM	1
4639 4 8	HEX PIPE WRENCH	8MM	1
4639 4 9	HEX PIPE WRENCH	9MM	1
4639 4 10	HEX PIPE WRENCH	10MM	1
4639 4 11	HEX PIPE WRENCH	11MM	1
4639 4 12	HEX PIPE WRENCH	12MM	1
4639 4 13	HEX PIPE WRENCH	13MM	1
4639 4 14	HEX PIPE WRENCH	14MM	1
4639 4 15	HEX PIPE WRENCH	15MM	1
4639 4 16	HEX PIPE WRENCH	16MM	1
4639 4 17	HEX PIPE WRENCH	17MM	1
4639 4 18	HEX PIPE WRENCH	18MM	1
4639 4 19	HEX PIPE WRENCH	19MM	1
4639 4 20	HEX PIPE WRENCH	20MM	1
4639 4 21	HEX PIPE WRENCH	21MM	1
4639 4 22	HEX PIPE WRENCH	22MM	1
4639 4 23	HEX PIPE WRENCH	23MM	1
4639 4 24	HEX PIPE WRENCH	24MM	1
4639 4 25	HEX PIPE WRENCH	25MM	1
4639 4 26	HEX PIPE WRENCH	26MM	1
4639 4 27	HEX PIPE WRENCH	27MM	1
4639 4 28	HEX PIPE WRENCH	28MM	1
4639 4 29	HEX PIPE WRENCH	29MM	1
4639 4 30	HEX PIPE WRENCH	30MM	1
4639 4 32	HEX PIPE WRENCH	32MM	1



Hex Pipe Wrench Set

Article No.	Article Description	QTY
4639 93	HEX PIPE WRENCH SET 8-PIECE	1
4639 94	HEX PIPE WRENCH SET 14-PIECE	1
4639 95	HEX PIPE WRENCH SET 26-PIECE	1



4639 93



4639 94

Four-Way Socket Spanner

- DIN 3119 / ISO 6788
- Chrome-vanadium-steel

Technical Data

Art. No.	Measurement	Design
4951 1	420 x 420 mm	
4951 2	420 x 420 mm	With 1/2" square-socket wrench intake
4951 3	550 x 550 mm	With very large turned waist
4951 4	550 x 550 mm	With very large turned waist and 1/2" square-socket wrench intake
4951 5	600 x 600 mm	
4951 6	750 x 750 mm	With 3/4" square socket wrench intake
4951 7	750 x 750 mm	With very large waist and 3/4" square-socket wrench intake
4951 9	355 x 355 mm	

Article No.	Article Description	QTY
4951 1	FOUR-W.SOC.SPAN.17X19X21X11/16	1
4951 2 1	FOUR-W.SOC.SPAN.17X19X21X11/16	1
4951 3	FOU-W.SOC.SPANNER 17X19X21X24	1
4951 4	FOU-W.SOC.SPAN.17X19X21X1/2-4K	1
4951 5	WHEEL SPIDER 19X22X24X27	1
4951 6	WHEEL SPIDER 27X32X24X3/4-4K	1
4951 7	FOUR-W.SOC.SP.27X30X32X3/4-4K	1

(SW mm)



Kraft - Torsion-Socket Wrench 1/2"

- Length: 220 mm
- **With torque limitation**
- For controlled tightening of wheel nuts with impact nutsetters
- Prevention of dangerous overexpansion of the bolt
- As the torsional values depend on the type and performance of the used impact nutsetter (should show at least the fourfold torque of the torsion-socket wrench), it is recommended to do the checking with a torque spanner
- Only for clockwise rotation and thus a damage of the torsion zone due to high torques is prevented while loosening the screws .

Article No.	Article Description	QTY
4568 17 75	1/2"TORQUE BAR SW17 75NM GREEN	1 ü
4568 17 110	1/2"TORQUE BAR SW17 110NM RED	1 ü
4568 19 90	1/2"TORQUE BAR SW19 90NM YELL.	1
4568 19 110	1/2"TORQUE BAR SW19 110NM BLUE	1 ü
4568 21 110	1/2"TORQUE BAR SW21 110NM BRO.	1 ü



Tyre - Mounting Lever

- Profiled form
- Solid forged
- Chrome-vanadium-steel, chrome-plated
- Art. No. 4952 500 1 with plastic rail

Article No.	Article Description	QTY
4952 200	TYRE - MOUNTING LEVER 200MM	1
4952 305	TYRE - MOUNTING LEVER 305MM	1
4952 400	TYRE - MOUNTING LEVER 400MM	1 z
4952 500	TYRE - MOUNTING LEVER 500MM	1 z
4952 500 1	TYRE-MOUN.LEV.W.PLST.RAIL500MM	1
4952 500 1 1	PLASTIC RAIL FOR 4952 500 1	1
4952 610	TYRE - MOUNTING LEVER 600MM	1
4952 610 1	TYRE - MOUNT.LEVER EDGED 610MM	1



Rim assembly protection set

- Help-tool for passengers cars and motorcycle rims
- For protecting the wheel rim when installing the tyre
- Base for tyre lever
- Length: 145 mm

Article No.	Article Description	QTY
4952 2	WHEEL RIM MOUNT.PROTECT.SET	1



Half-Moon Tyre Lever

- For damage-free tyre fitting to steel and aluminium wheels
- Solid forged
- Chromium-Vanadium steel, chromium-plated



Article No.	Article Description	QTY
4952 5000	TYRE - MOUNTING LEVER 500MM	1
4952 5000 1	PLAST.PROTECT.F.HALF-MOON TYRE	1

Your Advantage / Benefit

- Curved shape (half-moon) provides additional tensional force
- Moving plastic protector (replaceable)
- OEM product by Butler (Ravaglioli)

Application

- Ideal for removal aluminium and steel wheels



Related Products

- Tyre fitting compound white S431
Art.-No. 6580 4950



- Fine-knit gloves Duo-Grip
Art.-No. 5405 117 7 - 10



Bead hold-down chain 22" a traction point holder

- As an aid for tyre fitting
- Retains the tyre bead in the recess
- Chain length: 22" (Imperial)
- Use tyre fitting compound or tyre fitting fluid



Article No.	Article Description	QTY
4952 1000	BEAD HLD-DOWN CH.22"+TRAC.P.H.	1

Contents:

- 1x Bead hold-down chain 22"
- 1x Traction point holder

Your Advantage / Benefit

- Ideal for fitting low-profile and RunFlat tyres
- Tyre-protecting fitting - no scratching by the tyre lever
- Suitable for Ravaglioli, Butler and conventional fitting machines (Caution: push-off roller should be present)

Application

- Place the traction point holder between the spoke on the wheel and clamp the fitting head between the tyre and the rim flange
- Depending on the shape of the rim flange, clamp the relevant wedge on the bead hold-down chain between the rim flange and the tyre
- Start the tyre fitting machine slowly to prevent jamming



Related Products

- Tyre fitting compound white S431
Art.-No. 6580 5950



- Tyre fitting fluid S434
Art.-No. 6580 5956



- Fine-knit gloves Duo-Grip
Art.-No. 5405 117 7 - 10



Mounting Lever with Handle

- Forged
- Burnished

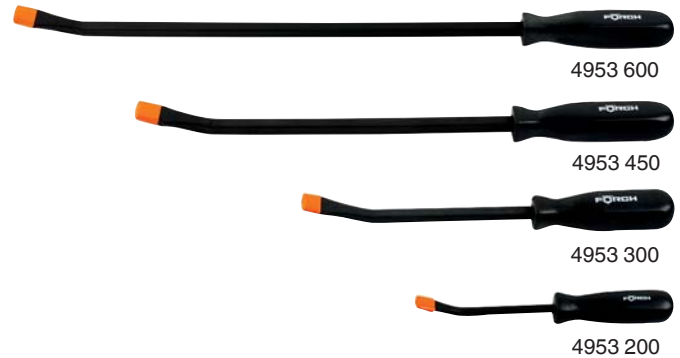
Technical Data

Art.-No.	Length mm	Blade width mm	Shaft type
4953 200	200	10	square
4953 300	300	16	square
4953 450	450	20	square
4953 650	600	20	square

Article No.	Article Description	QTY
4953 1	MOUNTING LEVER SET 4-PART	1
4953 200	MOUNTING LEVER 200MM	1
4953 300	MOUNTING LEVER 300MM	1
4953 450	MOUNTING LEVER 450MM	1
4953 650	MOUNTING LEVER 600MM	1

Art. No. 4953 1:

- 1x Art. No. 4953 200 Mounting lever 200 mm
- 1x Art. No. 4953 300 Mounting lever 300 mm
- 1x Art. No. 4953 450 Mounting lever 450 mm
- 1x Art. No. 4953 600 Mounting lever 600 mm



Swivel Head-Pry Bar Set, 3-Piece

- Swivel head can be adjusted to 180°
- Ideal for narrow spaces
- Universally applicable in almost all sectors
- Max. 590 Nm

Article No.	Article Description	QTY
4953 3	SWIVEL HEAD-PRY BAR SET 3-PCS	1
4953 3 250	SWIVEL HEAD-PRY BAR 250MM	1
4953 3 300	SWIVEL HEAD-PRY BAR 300MM	1
4953 3 375	SWIVEL HEAD-PRY BAR 375MM	1

Art. No. 4953 3:

- 1x Swivel head-pry bar, length 250 mm
- 1x Swivel head-pry bar, length 300 mm
- 1x Swivel head-pry bar, length 375 mm



Telescope Swivel Head-Pry Bar Adjustable

- For flexible use e.g. on bearings, pulleys, seals, wheel hubs etc.
- The flexible heads of the pry bar are adjustable in a range of 180° and are locked via a pressure mechanism at the top end
- The pointed top end allows an ideal use even in narrow working spaces
- Lever extension adjustable via press stud and snap levels

Technische Daten

Art.-No.	Length in mm
4953 3 470	340 - 470
4953 3 940	630 - 940
4953 3 1350	865 - 1350

Article No.	Article Description	QTY
4953 3 470	TEL.SW.HEAD-PRY BAR 340-470MM	1
4953 3 940	TEL.SW.HEAD-PRY BAR 630-940MM	1
4953 3 1350	TEL.SW.HEAD-PRY BAR 865-1350MM	1



Lever for Truck

- Developed according to the special requirements of truck workshops
- Impact-resistant, ergonomic plastic handle, suitable for the work with both hands
- Complete square special steel blade (16x16 mm) with robust head for heavy loads
- Hardened and tempered, can be re-ground

Application:

- Test free motion of fifth wheel plates
- Removal of rotary shaft seal from wheel hub
- Mount the wheels to the vehicle
- Check the ball-and-socket joint of track and steering rod
- Test free motion of silent-bearing
- Spring bolt eyes, wheel bearing play at front axle
- Rubber bearing trailer-tractor
- Test cardan shaft play
- Check the cab etc...

Article No.	Article Description	QTY
4953 4	TRUCK - LEVER SET 4-PART	1
4953 4 1	TRUCK - LEVER 900MM STRAIGHT	1
4953 4 2	TRUCK - LEVER 900MM 45°	1
4953 4 3	TRUCK - LEVER 600MM 75°	1
4953 4 4	TRUCK - LEVER 600 90°	1

Art. No. 4953 4:

- 1x 4953 4 1 Lever Truck 900 mm straight
- 1x 4953 4 2 Lever Truck 900 mm 45°
- 1x 4953 4 3 Lever Truck 900 mm 75°
- 1x 4953 4 4 Lever Truck 900 mm 90°



Double-Fork Spanner

- DIN 3110 / ISO 1085
- Chrome-vanadium steel



Article No.	Article Description	QTY
4580 4 5	DOUBLE FORK SPANNER 4X5	1
4580 5 55	DOUBLE FORK SPANNER 5X5,5	1
4580 6 7	DOUBLE FORK SPANNER 6X7	1
4580 8 9	DOUBLE FORK SPANNER 8X9	1
4580 10 11	DOUBLE FORK SPANNER 10X11	1
4580 10 13	DOUBLE FORK SPANNER 10X13	1
4580 12 13	DOUBLE FORK SPANNER 12X13	1
4580 13 17	DOUBLE FORK SPANNER 13X17	1
4580 14 15	DOUBLE FORK SPANNER 14X15	1
4580 16 17	DOUBLE FORK SPANNER 16X17	1
4580 17 19	DOUBLE FORK SPANNER 17X19	1
4580 18 19	DOUBLE FORK SPANNER 18X19	1
4580 20 22	DOUBLE FORK SPANNER 20X22	1
4580 21 23	DOUBLE FORK SPANNER 21X23	1
4580 24 27	DOUBLE FORK SPANNER 24X27	1
4580 25 28	DOUBLE FORK SPANNER 25X28	1
4580 30 32	DOUBLE FORK SPANNER 30X32	1
4580 30 34	DOUBLE FORK SPANNER 30X34	1
4580 36 41	DOUBLE FORK SPANNER 36X41	1
4580 41 46	DOUBLE FORK SPANNER 41X46	1
4580 46 50	DOUBLE FORK SPANNER 46X50	1

(SW mm)

Technical Data

Art. No.	Length mm	Strength mm
4580 4 5	100	3.3
4580 5 55	100	3.3
4580 6 7	122	3.6
4580 8 9	140	3.9
4580 10 11	156	4.8
4580 10 13	172	5.3
4580 12 13	172	5.3
4580 13 17	204	5.9
4580 14 15	190	5.7
4580 16 17	204	5.9
4580 17 19	223	6.5
4580 18 19	223	6.5
4580 20 22	236	6.8
4580 21 23	250	7.3
4580 24 27	265	7.8
4580 25 28	280	8.1
4580 30 32	302	8.6
4580 30 34	302	8.7
4580 36 41	360	9.3
4580 41 46	400	9.8
4580 46 50	450	10.8

Double-Fork Spanner-Set

Art. No. 4580V 010:

- In VAROsoft tool deposit Art. No. 9026 111

Article No.	Article Description	QTY
4580 008	DOUBLE FORK SPANNER SET 8 PART	1
4580 010	DOUBLE FORK SPANNER SET 10PART	1
4580 012	DOUBLE FORK SPANNER SET 12PART	1

Art. No 4580 008:

- 1x AGR 4580 Double-Fork Spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22

Art. No 4580 010 and 4580V 010:

- 1x AGR 4580 Double-Fork Spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22/24 x 27/30 x 32

Art. No. 4580 012:

- 1x AGR 4580 Double-Fork Spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22/21 x 23/24 x 27/25 x 28/30 x 32



4580V 010

Offset Double Ring Spanner

- DIN 838 / ISO 1085
- Chrome-vanadium-steel, chrome-plated
- Offset
- Long design



Article No.	Article Description	QTY
4582 6 7	DOUBLE RING SPANNER OFFSET 6X7	1
4582 8 9	DOUBLE RING SPANNER OFFSET 8X9	1
4582 10 11	DOUBLE RING SPANN.OFFSET 10X11	1
4582 12 13	DOUBLE RING SPANN.OFFSET 12X13	1
4582 13 17	DOUBLE RING SPANN.OFFSET 13X17	1
4582 14 15	DOUBLE RING SPANN.OFFSET 14X15	1
4582 16 17	DOUBLE RING SPANN.OFFSET 16X17	1
4582 17 19	DOUBLE RING SPANN.OFFSET 17X19	1
4582 18 19	DOUBLE RING SPANN.OFFSET 18X19	1
4582 20 22	DOUBLE RING SPANN.OFFSET 20X22	1
4582 21 23	DOUBLE RING SPANN.OFFSET 21X23	1
4582 24 27	DOUBLE RING SPANN.OFFSET 24X27	1
4582 30 32	DOUBLE RING SPANN.OFFSET 30X32	1
4582 30 34	DOUBLE RING SPANN.OFFSET 30X34	1
4582 36 41	DOUBLE RING SPANN.OFFSET 36X41	1
4582 41 46	DOUBLE RING SPANN.OFFSET 41X46	1
4582 46 50	DOUBLE RING SPANN.OFFSET 46X50	1

(SW mm)

Technical Data

Art. No.	Length mm	Length mm
4582 6 7	165	165
4582 8 9	180	180
4582 10 11	195	195
4582 12 13	216	216
4582 13 17	262	262
4582 14 15	238	238
4582 16 17	262	262
4582 17 19	290	290
4582 18 19	290	290
4582 20 22	320	320
4582 21 23	325	325
4582 24 27	337	337
4582 30 32	360	360
4582 30 34	362	362
4582 36 41	443	443
4582 41 46	477	477
4582 46 50	505	505

Offset Double Ring Spanner Set

Art. No. 4582V 003:

- In VAROsoft tool deposit Art. No. 9026 717

Art. No. 4582V 007:

- In VAROsoft tool deposit Art. No. 9026 69

Article No.	Article Description	QTY
4582 008	OFFSET DOUBLE RING SPAN.SET 8P	1
4582 010	OFFSET DOUBLE RING SPAN.SET 10P	1
4582 012	DOUBLE RING SP.SET EDGED 12-PA	1
4582V 003	VS-DOUBLE RING SPAN.SET 3-PCS.	1
4582V 007	VS-DOUBLE RING SPAN.SET 7-PCS.	1

Art. No. 4582 008:

- 1x AGR 4582 Offset double ring spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22

Art. No. 4582 010:

- 1x AGR 4582 Offset double ring spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22/24 x 27/30 x 32

Art. No. 4582 012:

- 1x AGR 4582 Offset double ring spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22/21 x 23/24 x 27/30 x 32/30 x 34

Art. No. 4582V 003:

- 1x AGR 4582 Offset double ring spanner SW 20 x 22/24 x 27/30 x 32

Art. No. 4582V 007:

- 1x AGR 4582 Offset double ring spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19



Double Ring Spanner, Straight

- ISO DIN 1085, polished, thin-walled



Article No.	Article Description	QTY
4588 6 7	DOUBLE-RING SPAN.STRAIGHT 6X 7	1
4588 8 9	DOUBLE-RING SPAN.STRAIGHT 8X 9	1
4588 10 11	DOUBLE-RING SPAN.STRAIGHT 10X11	1
4588 12 13	DOUBLE-RING SPAN.STRAIGHT 12X13	1
4588 14 15	DOUBLE-RING SPAN.STRAIGHT 14X15	1
4588 16 17	DOUBLE-RING SPAN.STRAIGHT 16X17	1
4588 18 19	DOUBLE-RING SPAN.STRAIGHT 18X19	1
4588 20 22	DOUBLE-RING SPAN.STRAIGHT 20X22	1
4588 21 23	DOUBLE-RING SPAN.STRAIGHT 21X23	1
4588 24 27	DOUBLE-RING SPAN.STRAIGHT 24X27	1
4588 30 32	DOUBLE-RING SPAN.STRAIGHT 30X32	1
4588 36 41	DOUBLE-RING SPAN.STRAIGHT 36X41	1

(SW mm)

Technical Data

Art. No.	Length mm
4588 6 7	95
4588 8 9	110
4588 10 11	120
4588 12 13	138
4588 14 15	155
4588 16 17	170
4588 18 19	190
4588 20 22	210
4588 21 23	232
4588 24 27	255
4588 30 32	305
4588 36 41	365

Double Ring Spanner Set, Straight

- 9-piece



Article No.	Article Description	QTY
4588 009	DOUBLE-RING SPA.SET STRAI.9-PA	1

Art. No. 4588 009:

- 1 x SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22/24 x 27

TX cranked double-end box wrench

- for external TX screws
- cranked
- chrome vanadium steel
- chromium-plated



Article No.	Article Description	QTY
4604 6 8	TX DOUB.RING WRE.CURVED E6XE8	1
4604 7 11	TX DOUB.RING WRE.CURVED E7XE11	1
4604 16 22	TX DOUB.RING WRE.CURV. E16XE22	1
4604 20 24	TX DOUB.RING WRE.CURV. E20XE24	1

Technical Data

Art.-No.	Length mm	Height mm
4604 6 8	172	25
4604 7 11	192	26
4604 16 22	260	32
4604 20 24	270	33

TX cranked double-end box wrench set

Art.-No. 4604 90:

- in VAROsoft system Art.-No. 9026 637

Article No.	Article Description	QTY
4604 90 1	TX CRA.DOUB.END BOX WRE.SET 6P	1
4604V 90	VS-TX CRA.DO.END BOX WR.SET 6P	1



4604 90 1



4604V 90

Double-end box wrench, long

- extra long
- higher power transmission due to extra length



Article No.	Article Description	QTY
4606 10 11	DOUBLE RING SPANNER LONG 10X11	1
4606 12 14	DOUBLE RING SPANNER LONG 12X14	1
4606 13 15	DOUBLE RING SPANNER LONG 13X15	1
4606 16 18	DOUBLE RING SPANNER LONG 16X18	1
4606 17 19	DOUBLE RING SPANNER LONG 17X19	1
4606 22 24	DOUBLE RING SPANNER LONG 22X24	1

(AF mm)

Technical Data

art. no.	length mm
4606 10 11	289
4606 12 14	333
4606 13 15	364
4606 16 18	404
4606 17 19	404
4606 22 24	436

Double-end box wrench, long

- 6 pieces

Article No.	Article Description	QTY
4606 006	DOUBLE RING SPANNER LONG 6PCS	1

Contents:

- 1x SW 10 x 11/12 x 14/13 x 15/16 x 18/17 x 19/22 x 24



TX - Double Ring Spanner

- Straight
- Chrome-vanadium-steel, chrome-plated
- Polished rings



Article No.	Article Description	QTY
4607 6 8	TX-DOU.RING SP.STRAI.E 6XE 8	1
4607 10 12	TX-DOU.RING SPA.STRAI.E10XE12	1
4607 14 18	TX-DOU.RING SPA.STRAI.E14XE18	1
4607 20 24	TX-DOU.RING SPA.STRAI.E20XE24	1

Technical Data

TX size	mm	Length mm
E 6 E 8	5.74 x 7.52	110
E 10 E 12	9.42 x 11.17	140
E 14 E 18	12.90 x 16.70	180
E 20 E 24	18.45 x 22.16	225

Combination Spanner

- DIN 3113 / ISO 3318
- Chrome-vanadium-steel, chrome-plated
- Ring 15° angled



Article No.	Article Description	QTY
4584 6	COMBINATION SPANNER ANGLED 6	1
4584 7	COMBINATION SPANNER ANGLED 7	1
4584 8	COMBINATION SPANNER ANGLED 8	1
4584 9	COMBINATION SPANNER ANGLED 9	1
4584 10	COMBINATION SPANNER ANGLED 10	1
4584 11	COMBINATION SPANNER ANGLED 11	1
4584 12	COMBINATION SPANNER ANGLED 12	1
4584 13	COMBINATION SPANNER ANGLED 13	1
4584 14	COMBINATION SPANNER ANGLED 14	1
4584 15	COMBINATION SPANNER ANGLED 15	1
4584 16	COMBINATION SPANNER ANGLED 16	1
4584 17	COMBINATION SPANNER ANGLED 17	1
4584 18	COMBINATION SPANNER ANGLED 18	1
4584 19	COMBINATION SPANNER ANGLED 19	1
4584 20	COMBINATION SPANNER ANGLED 20	1
4584 21	COMBINATION SPANNER ANGLED 21	1
4584 22	COMBINATION SPANNER ANGLED 22	1
4584 23	COMBINATION SPANNER ANGLED 23	1 z
4584 24	COMBINATION SPANNER ANGLED 24	1
4584 25	COMBINATION SPANNER ANGLED 25	1 ü
4584 26	COMBINATION SPANNER ANGLED 26	1 ü
4584 27	COMBINATION SPANNER ANGLED 27	1
4584 28	COMBINATION SPANNER ANGLED 28	1 ü
4584 29	COMBINATION SPANNER ANGLED 29	1 ü
4584 30	COMBINATION SPANNER ANGLED 30	1
4584 32	COMBINATION SPANNER ANGLED 32	1
4584 34	COMBINATION SPANNER ANGLED 34	1
4584 36	COMBINATION SPANNER ANGLED 36	1

(SW mm)

Technical Data

Art. No.	Length mm	Strength mm
4584 6	100	3.9
4584 7	110	4.2
4584 8	120	4.4
4584 9	130	4.7
4584 10	140	5.0
4584 11	150	5.2
4584 12	160	5.5
4584 13	170	5.8
4584 14	180	6.1
4584 15	190	6.3
4584 16	200	6.6
4584 17	210	6.9
4584 18	220	7.1
4584 19	230	7.3
4584 20	240	7.5
4584 21	250	7.7
4584 22	260	7.9
4584 23	270	8.4
4584 24	280	8.3
4584 25	290	8.4
4584 26	300	8.9
4584 27	310	8.9
4584 28	320	9.0
4584 29	330	9.1
4584 30	340	9.5
4584 32	360	9.9
4584 34	380	10.3
4584 36	400	11.2

Combination Spanner Set

Art. No. 4584V 012:

- In VAROsoft tool deposit Art. No. 9026 631

Art. No. 4584 V 5:

- In VAROsoft tool deposit Art. No. 9026 720

Article No.	Article Description	QTY
4584 008	COMBINAT.SPANNER SET ANGL.8PCS	1
4584 012	COMBINAT.SPANNER SET ANG.12PCS	1
4584 015	COMBINAT.SPANNER SET ANG.15PCS	1
4584 023	COMBINAT.SPANNER SET ANG.23PCS	1
4584V 5	VS-COMBINATION SPANN.SET 5PCS	1
4584V 013	VS-COMBINATION SPANN.SET 13PCS	1

Art. No. 4584 008:

- 1x SW 8/9/10/11/13/14/17/19

Art. No. 4584 012:

- 1x SW 10/11/12/13/14/17/19/22/24/27/30/32

Art. No. 4584 015:

- 1x SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22

Art. No. 4584 023:

- 1x SW 6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32/34/36

Art. No. 4584V 5:

- 1x SW 22/24/27/30/32

Art. No. 4584V 013:

- 1x SW 8/9/10/11/12/13/14/15/16/17/18/19/21



Combination Spanner Set **ECO**

Article No.	Article Description	QTY
4584N 015	COMB.SPANN.SET ANGLED 15PC.ECO	1

Contents:

- 1x SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22

Mini Offset Combination Spanner

- Ring end offset by 15°
- Chrome-vanadium-steel, high gloss chrome-plated



Article No.	Article Description	QTY
4586 10	MINI OFFSET COMBINAT.SPANNER10	1
4586 11	MINI OFFSET COMBINAT.SPANNER11	1
4586 12	MINI OFFSET COMBINAT.SPANNER12	1
4586 13	MINI OFFSET COMBINAT.SPANNER13	1
4586 14	MINI OFFSET COMBINAT.SPANNER14	1
4586 17	MINI OFFSET COMBINAT.SPANNER17	1
4586 19	MINI OFFSET COMBINAT.SPANNER19	1

(SW mm)

Technical Data

Art. No.	Length mm
4586 10	95
4586 11	100
4586 12	104
4586 13	109
4586 14	114
4586 17	130
4586 19	140

Mini Combination Spanner Set

Art. No. 4586V 7

- In VAROsoft system Art. No. 9026 87

Article No.	Article Description	QTY
4586 7	MINI COMB.SPANNER SET 7-PIECE	1
4586V 7	VS-MINI COMB.SPANNER SET 7-PCS	1

Art. No. 4586 7:

- 1x SW 10//11/12/13/14/17/19

Art. No. 4586V 7:

- 1x SW 10//11/12/13/14/17/19



4586 7



4586V 7

Gigant-Ring Open-End Spanner

- Ring end offset by 15°
- Chrome-vanadium-steel, high gloss chrome-plated
- Extra long and extra strong torque values
- 90° rotation in shaft for hand protection



Article No.	Article Description	QTY
4589 8	GIGANT-RING OPEN-END SPANNER 8	1
4589 13	GIGANT-RING OPEN-END SPANNER13	1
4589 14	GIGANT-RING OPEN-END SPANNER14	1
4589 16	GIGANT-RING OPEN-END SPANNER16	1
4589 17	GIGANT-RING OPEN-END SPANNER17	1
4589 19	GIGANT-RING OPEN-END SPANNER19	1
4589 22	GIGANT-RING OPEN-END SPANNER22	1
4589 23	GIGANT-RING OPEN-END SPANNER23	1

Ring Fork Spanner 7-XL

- Extra long
- Ring 15° angled



Article No.	Article Description	QTY
4617 8	RING FORK SPANNER LONG 8	1
4617 10	RING FORK SPANNER LONG 10	1
4617 11	RING FORK SPANNER LONG 11	1
4617 12	RING FORK SPANNER LONG 12	1
4617 13	RING FORK SPANNER LONG 13	1
4617 14	RING FORK SPANNER LONG 14	1
4617 15	RING FORK SPANNER LONG 15	1
4617 16	RING FORK SPANNER LONG 16	1
4617 17	RING FORK SPANNER LONG 17	1
4617 18	RING FORK SPANNER LONG 18	1
4617 19	RING FORK SPANNER LONG 19	1
4617 21	RING FORK SPANNER LONG 21	1
4617 22	RING FORK SPANNER LONG 22	1
4617 24	RING FORK SPANNER LONG 24	1
4617 27	RING FORK SPANNER LONG 27	1
4617 30	RING FORK SPANNER LONG 30	1
4617 32	RING FORK SPANNER LONG 32	1
4617 36	RING FORK SPANNER LONG 36	1
4617 41	RING FORK SPANNER LONG 41	1
4617 46	RING FORK SPANNER LONG 46	1

(SW mm)

Technical Data

Art. No.	Length mm
4617 8	170
4617 10	190
4617 11	200
4617 12	210
4617 13	225
4617 14	235
4617 15	250
4617 16	265
4617 17	280
4617 18	295
4617 19	310
4617 21	340
4617 22	350
4617 24	400
4617 27	450
4617 30	480
4617 32	500
4617 36	550
4617 41	600
4617 46	640

Ring Fork Spanner Set 7-XL

- 12-piece

Article No.	Article Description	QTY
4618 12	RING F.SPAN.SET LG12-PART10-32	1

Contents:

- 1x SW 10/11/12/13/14/17/19/22/24/27/30/32



Ring Fork Spanner 1B

- Short form
- Flat edged ring



Article No.	Article Description	QTY
4613 6	RING FORK SPANNER FL. EDGED 6	1
4613 7	RING FORK SPANNER FL. EDGED 7	1
4613 8	RING FORK SPANNER FL. EDGED 8	1
4613 9	RING FORK SPANNER FL. EDGED 9	1
4613 10	RING FORK SPANNER FL. EDGED 10	1
4613 11	RING FORK SPANNER FL. EDGED 11	1
4613 12	RING FORK SPANNER FL. EDGED 12	1
4613 13	RING FORK SPANNER FL. EDGED 13	1
4613 14	RING FORK SPANNER FL. EDGED 14	1
4613 15	RING FORK SPANNER FL. EDGED 15	1
4613 16	RING FORK SPANNER FL. EDGED 16	1
4613 17	RING FORK SPANNER FL. EDGED 17	1
4613 18	RING FORK SPANNER FL. EDGED 18	1
4613 19	RING FORK SPANNER FL. EDGED 19	1
4613 20	RING FORK SPANNER FL. EDGED 20	1
4613 21	RING FORK SPANNER FL. EDGED 21	1
4613 22	RING FORK SPANNER FL. EDGED 22	1
4613 23	RING FORK SPANNER FL. EDGED 23	1
4613 24	RING FORK SPANNER FL. EDGED 24	1
4613 25	RING FORK SPANNER FL. EDGED 25	1
4613 26	RING FORK SPANNER FL. EDGED 26	1
4613 27	RING FORK SPANNER FL. EDGED 27	1
4613 28	RING FORK SPANNER FL. EDGED 28	1
4613 29	RING FORK SPANNER FL. EDGED 29	1
4613 30	RING FORK SPANNER FL. EDGED 30	1
4613 32	RING FORK SPANNER FL. EDGED 32	1
4613 36	RING FORK SPANNER FL. EDGED 36	1
4613 41	RING FORK SPANNER FL. EDGED 41	1
4613 46	RING FORK SPANNER FL. EDGED 46	1
4613 50	RING FORK SPANNER FL. EDGED 50	1
4613 55	RING FORK SPANNER FL. EDGED 55	1
4613 60	RING FORK SPANNER FL. EDGED 60	1

(SW mm)

Technical Data

Art. No.	Length mm
4613 6	100
4613 7	112
4613 8	125
4613 9	138
4613 10	148
4613 11	158
4613 12	168
4613 13	185
4613 14	198
4613 15	210
4613 16	220
4613 17	232
4613 18	245
4613 19	258
4613 20	270
4613 21	280
4613 22	292
4613 23	305
4613 24	318
4613 25	328
4613 26	340
4613 27	352
4613 28	370
4613 29	370
4613 30	390
4613 32	412
4613 36	460
4613 41	520
4613 46	550
4613 50	580
4613 55	620
4613 60	660

Ring Fork Spanner Set 1B



Article No.	Article Description	QTY
4614 11	RING FORK SPAN.SET 1B 011 8-22	1
4614 17	RING FORK SPAN.SET 1B 017 6-22	1

Art. No. 4614 11

- 1x SW 8/9/10/11/12/13/14/15/17/19/22

Art. No. 4614 17

- 1x SW 6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22

Maxline-Ring Fork Spanner

- High-quality 50 CR V4 steel
- Torque according to DIN 899 doubled
- Light, thin but sturdy



Article No.	Article Description	QTY
4585 10	MAXLINE-RING FORK SPANNER 10	1
4585 11	MAXLINE-RING FORK SPANNER 11	1
4585 12	MAXLINE-RING FORK SPANNER 12	1
4585 13	MAXLINE-RING FORK SPANNER 13	1
4585 14	MAXLINE-RING FORK SPANNER 14	1
4585 15	MAXLINE-RING FORK SPANNER 15	1
4585 16	MAXLINE-RING FORK SPANNER 16	1
4585 17	MAXLINE-RING FORK SPANNER 17	1
4585 18	MAXLINE-RING FORK SPANNER 18	1
4585 19	MAXLINE-RING FORK SPANNER 19	1
4585 20	MAXLINE-RING FORK SPANNER 20	1
4585 21	MAXLINE-RING FORK SPANNER 21	1
4585 22	MAXLINE-RING FORK SPANNER 22	1
4585 24	MAXLINE-RING FORK SPANNER 24	1
4585 27	MAXLINE-RING FORK SPANNER 27	1
4585 30	MAXLINE-RING FORK SPANNER 30	1
4585 32	MAXLINE-RING FORK SPANNER 32	1
4585 34	MAXLINE-RING FORK SPANNER 34	1
4585 36	MAXLINE-RING FORK SPANNER 36	1
4585 41	MAXLINE-RING FORK SPANNER 41	1

(SWmm)

Technical Data

Art. No.	Total length mm	Thickness Fork mm	Weight g
4585 10	148	4.9	50
4585 11	160	5.2	65
4585 12	172	5.5	80
4585 13	184	5.9	95
4585 14	196	6.1	110
4585 15	208	6.4	130
4585 16	220	6.7	150
4585 17	232	7.0	175
4585 18	244	7.3	200
4585 19	256	7.6	230
4585 20	268	7.8	260
4585 21	280	8.2	295
4585 22	292	8.5	330
4585 24	315	9.1	415
4585 27	350	9.9	575
4585 30	386	10.9	770
4585 32	410	11.4	925
4585 34	434	12.0	1.100
4585 36	458	12.6	1.300
4585 41	518	14.1	1.930

Maxline-Ring Fork Spanner Set



Article No.	Article Description	QTY
4585 009	MAXLINE-RING FORK SPAN.SET 9P.	1
4585 011	MAXLINE-RING FORK SPAN.SET 11P.	1

• Art. No. 4585 009t:

1x SW 10, 13, 16, 17, 18, 19, 21, 22, 24

• Art. No. 4585 011:

1x SW 10, 13, 16, 17, 18, 19, 21, 22, 24, 27, 30

Obstruction Wrench

- Chrome-vanadium-steel, chrome-plated
- Polished ring



Article No.	Article Description	QTY
4620 11 13	OBSTRUCTION WRENCH 11X13	1
4620 13 15	OBSTRUCTION WRENCH 13X15	1
4620 13 17	OBSTRUCTION WRENCH 13X17	1
4620 14 17	OBSTRUCTION WRENCH 14X17	1
4620 15 17	OBSTRUCTION WRENCH 15X17	1
4620 16 18	OBSTRUCTION WRENCH 16X18	1
4620 19 22	OBSTRUCTION WRENCH 19X22	1

(SW mm)

Technical Data

Art. No.	Length mm
4620 11 13	150
4620 13 15	185
4620 13 17	185
4620 14 17	185
4620 15 17	185
4620 16 18	185
4620 19 22	230

Driving belt spanner set, 5-pce

- to release the automatic clamping device
- change the belt without hassle
- saves the service position of the cooler unit in vehicles that belong to the VW group
- slim model also for hard to reach or narrow places
- lower energy input due to long version
- with plastic coated non-slip grip
- chrome vanadium

Application range:

- For most vehicles with automatic clamping device of the multiple V-ribbed or timing belts. e.g.: Audi A4, VW Passat from 97 with TDI or pump jet engine, Opel DOHC 4- / 6-cylinder (z. B. Astra F with air conditioning), Saab V6 engines, Mitsubishi, etc.



Article No.	Article Description	QTY
4620 5	DRIVING BELT SPANNER SET 5-PCE	1

Contents:

- transport case
- art. no. 4620 5 13 multiple V-ribbed or timing belt spanner, L = 460 mm, 13 mm
- art. no. 4620 5 15 multiple V-ribbed or timing belt spanner, L = 460 mm, 15 mm
- art. no. 4620 5 16 multiple V-ribbed or timing belt spanner, L = 460 mm, 16 mm
- art. no. 4620 5 17 multiple V-ribbed or timing belt spanner, L = 460 mm, 17 mm
- art. no. 4620 5 19 multiple V-ribbed or timing belt spanner, L = 460 mm, 19 mm

Double-Ended Ring Spanner

- Heads 15° angled
- DIN 3118
- Chrome-vanadium, chrome-plated
- Polished rings



Technical Data

Article No.	Article Description	QTY
4625 8 10	DOUBLE-END RING SPANNER 8X10	1
4625 9 11	DOUBLE-END RING SPANNER 9X11	1
4625 10 11	DOUBLE-END RING SPANNER 10X11	1
4625 11 13	DOUBLE-END RING SPANNER 11X13	1
4625 12 14	DOUBLE-END RING SPANNER 12X14	1
4625 13 15	DOUBLE-END RING SPANNER 13X15	1
4625 14 17	DOUBLE-END RING SPANNER 14X17	1
4625 17 19	DOUBLE-END RING SPANNER 17X19	1
4625 19 22	DOUBLE-END RING SPANNER 19X22	1
4625 22 24	DOUBLE-END RING SPANNER 22X24	1
4625 24 27	DOUBLE-END RING SPANNER 24X27	1
4625 30 32	DOUBLE-END RING SPANNER 30X32	1

(SW mm)

SW mm	Length mm	Version	End
8 x 10	140	hexagonal	30° angled
9 x 11	145	hexagonal	30° angled
10 x 11	150	hexagonal	30° angled
11 x 13	160	hexagonal	30° angled
12 x 14	170	hexagonal	30° angled
13 x 15	180	bihexagonal	30° angled
14 x 17	195	bihexagonal	15° angled
17 x 19	210	bihexagonal	15° angled
19 x 22	220	bihexagonal	15° angled
22 x 24	250	bihexagonal	15° angled
24 x 27	270	bihexagonal	15° angled
30 x 32	300	bihexagonal	15° angled

Flexible Head Spanner - Set

- 5-part
- For difficultly accessible screwings
- Ergonomic, high-polished
- Hexagonal version

Application fields:

- Brake, AC system, fuel, pressure and power steering lines



Article No.	Article Description	QTY
4629 90	VS-FLEX.HEAD SPANNER SET 8-12	1

Set includes:

- 1x Art. No. 4629 8 1 Flexible head spanner SW 8
- 1x Art. No. 4629 9 1 Flexible head spanner SW 9
- 1x Art. No. 4629 10 1 Flexible head spanner SW 10
- 1x Art. No. 4629 11 1 Flexible head spanner SW 11
- 1x Art. No. 4629 12 1 Flexible head spanner SW 12

Ring joint ratchet wrench set

- 4-piece
- 6-edge design
- self-tightening wrench with ratchet function
- patented ratchet function of ring sides
- spring-mounted ring side surrounds the screw joint completely
- the special geometry provides a safe grip even at the rounded nuts
- the bigger the lifting power, the stronger the ring encompasses the screw joint and guarantees safe working environment without skidding

applications:

- in brake, hydraulic, power steering, fuel and air conditioning cables and compressed air screw joints etc.



Article No.	Article Description	QTY
4629 2	ART.RING RATCH.SPANNER SET 4PC	1

Each contains 1x:

- art. no. 4629 8 9 ring joint ratchet wrench SW 8/9
- art. no. 4629 10 11 ring joint ratchet wrench SW 10/11
- art. no. 4629 12 13 ring joint ratchet wrench SW 12/13
- art. no. 4629 14 15 ring joint ratchet wrench I SW 14/15

Brake Line Spanner - Set

- For improved power transmission and for precise torque according to regulation (e.g. air conditioners, brake lines)
- Delivered in sheet steel case
- Driving tools:
 - 3/8" socket wrench insert SW22
 - Open ring spanner SW22



Article No.	Article Description	QTY
4439 1	BRAKE LINE SPANNER SET 12-PART	1

Cable wrench set individual parts

Article No.	Article Description	QTY
4439 22	OPEN RING WRENCH SW22	1
4439 22 38	3/8" SOCK.WRENCH INSERT SW22	1
4439 10	SOCK.WRENCH INS. SW10 11MM	1
4439 10 1	SOCK.WRENCH INS. SW10 25MM	1
4439 11	SOCK.WRENCH INS. SW11 11MM	1
4439 11 1	SOCK.WRENCH INS. SW11 25MM	1
4439 12	SOCK.WRENCH INS. SW12 11MM	1
4439 12 1	SOCK.WRENCH INS. SW12 25MM	1
4439 13	SOCK.WRENCH INS. SW11 11MM	1
4439 13 1	SOCK.WRENCH INS. SW13 25MM	1
4439 14	SOCK.WRENCH INS. SW14 11MM	1
4439 14 1	SOCK.WRENCH INS. SW14 25MM	1



Extension lever 340 mm

- forged design
- the extension lever for open-end, combination and ring wrenches fit due to the special shape of the input claws, as well as for allen, torx and alligator wrenches
- overall length: 340 mm
- weight: 670 g



Article No.	Article Description	QTY
4591 1	EXTENSION LEVER 340 MM	1

Double Ring - Ratchet Spanner / Bit-Set 4 in 1

- 32-pieces in plastic case Art. No. 4415 14 47 1
- With 4 wrench sizes per spanner
- With 3 spanners all wrench sizes from 8 to 19 mm can be driven
- Ideally suitable for difficultly accessible areas due to fine toothing with 72 teeth
- Revolver ratchet screwdriver 1/4" with turnable ring, finely toothed with 72 teeth
- Can be adjusted from a revolver handle to a straight handle
- Magnetic bit intake
- Two-component handle with tray for 6 bis
- Bit adapter 1/4" to insert to 10 mm ratchet spanner
- Adapter 1/4" hexagonal to 1/4" square for driving of 1/4" nuts



Article No.	Article Description	QTY
4624 33	RI-RATCH.SPAN.4IN1/BIT SET32PA	1

Set includes:

- 1x Art. No. 4624 8 11 Double ring ratchet spanner 4 in 1 SW 8/9/10/11
- 1x Art. No. 4624 12 15 Double ring ratchet spanner 4 in 1 SW 12/13/14/15
- 1x Art. No. 4624 16 19 Double ring ratchet spanner 4 in 1 SW 16/17/18/19
- 1x Art. No. 4345 4 Revolver ratchet screwdriver 1/4"
- 1x Art. No. 4361 14 6 10 Bit adapter 1/4"-10 mm hexagonal for ring spanner
- 1x Art. No. 4361 14 64 Adapter 1/4" hexagonal to 1/4" square
- AGR 4300 Bit standard slot LS 1/4" LS 4.5/5.5/7
- AGR 4301 Bit standard cross recession PH 1/4" PH 1/2/3
- AGR 4302 Bit standard cross recession PZ 1/4" PZ 1/2/3
- AGR 4303 Bit standard 1/4" TX 10/15/20/25/27/30/40
- AGR 4305 Bit standard Hex Plus, 1/4" size. 4/5/6
- AGR 4308 Bit standard 1/4" with head drilling TX 10/15/20/25/27/30/40

Ring joint ratchet wrench micro bit set

- 32-piece micro bit set in the case
- very low tool construction due to compact shape
- ideal use in hard to reach places
- cranked reversible ratchet wrench, size 8-10
- metal clip on the plug bits for optimum positioning in the ratchet wrench

art. no. 4630V 92:

- supplied without case

Article No.	Article Description	QTY
4630 92	VS-RING RATCH.SPAN.BIT-SET+BOX	1
4630V 92	VS-RING RATCH.SPAN.32P.BIT-SET	1

Each contains 1x:

- art. no. 4630 928 10 ring joint ratchet wrench AF 8/10
- art. no. 4630 921 0 micro-bit PH0
- art. no. 4630 921 1 micro-bit PH1
- art. no. 4630 921 2 micro bit PH2
- art. no. 4630 922 4 micro bit inner-6-edge size. 4
- art. no. 4630 922 5 micro bit inner-6-edge size. 5
- art. no. 4630 922 6 micro bit inner-6-edge size. 6
- art. no. 4630 922 7 micro bit inner-6-edge size. 7
- art. no. 4630 922 8 micro bit inner-6-edge size. 8
- art. no. 4630 923 5 micro bit XZN 5
- art. no. 4630 923 6 micro bit XZN 6
- art. no. 4630 923 8 micro bit XZN 8
- art. no. 4630 923 10 micro bit XZN 10
- art. no. 4630 924 8 micro bit TX 8
- art. no. 4630 924 10 micro bit TX 10
- art. no. 4630 924 15 micro bit TX 15

- art. no. 4630 924 20 micro bit TX 20
- art. no. 4630 924 25 micro bit TX 25
- art. no. 4630 924 27 micro bit TX 27
- art. no. 4630 924 30 micro bit TX 30
- art. no. 4630 924 40 micro bit TX 40
- art. no. 4630 924 45 micro bit TX 45
- art. no. 4630 925 8 micro bit TX plug with head hole TX 8
- art. no. 4630 925 10 micro bit TX plug with head hole TX 10
- art. no. 4630 925 15 micro bit TX plug with head hole TX 15
- art. no. 4630 925 20 micro bit TX plug with head hole TX 20
- art. no. 4630 925 25 micro bit TX plug with head hole TX 25
- art. no. 4630 925 27 micro bit TX plug with head hole TX 27
- art. no. 4630 925 30 micro bit TX plug with head hole TX 30
- art. no. 4630 925 40 micro bit TX plug with head hole TX 40
- art. no. 4630 925 45 micro bit TX plug with head hole TX 45
- art. no. 4630 926 4 micro bit slot 4 mm



Scaffolding Construction Ratchet

- Robust version made of chrome-vanadium-steel
- Tapered handle for screwing-in scaffolding eyelet bolts
- Firm double-nut with wrench sizes 19 and 22 mm
- With oil-hole at ratchet toothed-wheel
- Length: 31 cm



Article No.	Article Description	QTY
4401 19 22	SCAFFOLD.CONSTR.RATCHET 19X22	1

Double Ring Ratchet Spanner

- Finely toothed with 72 teeth
- Double-sided bihexagonal ring

Article No.	Article Description	QTY
4587 8 9	DOUBLE RING-RATCH.SPANNER 8X9	1
4587 10 11	DOUBLE RING-RATCH.SPANNER 10X11	1
4587 12 13	DOUBLE RING-RATCH.SPANNER 12X13	1
4587 14 15	DOUBLE RING-RATCH.SPANNER 14X15	1
4587 16 18	DOUBLE RING-RATCH.SPANNER 16X18	1
4587 17 19	DOUBLE RING-RATCH.SPANNER 17X19	1
4587 90	DOUBLE RING-RATCHET SET 6 PART	1



Art. No. 4587 90:

- 1x AGR 4587 8 9 Double ring ratchet spanner SW 8 x 9/10 x 11/12 x 13/14 x 15/16 x 18/17 x 19

Double Ring Ratchet Spanner 4 in 1

- With switch lever
- Finely toothed with 72 teeth
- 4 wrench sizes per spanner:
 - Art.-No. 4624 8 11: SW 8/9/10/11
 - Art.-No. 4624 10 19: SW 10/13/17/19
 - Art.-No. 4624 12 15: SW 12/13/14/15
- Art.-No. 4624 16 19: SW 16/17/18/19

Article No.	Article Description	QTY
4624 8 11	RING RATCH.SPANN.SW 8,9,10,11	1
4624 10 19	RING RATCH.SPANN.SW 10,13,17,19	1
4624 12 15	RING RATCH.SPANN.SW 12,13,14,15	1
4624 16 19	RING RATCH.SPANN.SW 16,17,18,19	1



Double Ring Ratchet Spanner - TX

- Finely toothed with 72 teeth
- TX double-sided

Article No.	Article Description	QTY
4609 6 8	TX-DOUBLE RING RATCHET E 6XE 8	1
4609 10 12	TX-DOUBLE RING RATCHET E 10XE 12	1
4609 14 18	TX-DOUBLE RING RATCHET E 14XE 18	1
4609 20 24	TX-DOPPELRINGRATSCH E 20XE 24	1
4609 90	TX-DOUBLE RING RATCHET SET 4P.	1

Art. No. 4609 90 :

- Double ring ratchet spanner - TX
E 6 x E 8/E 10 x E 12/E 14 x E 18/E 20 x E 24



Forked Ring-Ratchet Spanner Professional

- Finely toothed with 72 teeth
- Bihexagonal
- Straight



Article No.	Article Description	QTY
4628 6	FORKED RING-RATCHET SPANNER 6	1
4628 7	FORKED RING-RATCHET SPANNER 7	1
4628 8	FORKED RING-RATCHET SPANNER 8	1
4628 9	FORKED RING-RATCHET SPANNER 9	1
4628 10	FORKED RING-RATCHET SPANNER 10	1
4628 11	FORKED RING-RATCHET SPANNER 11	1
4628 12	FORKED RING-RATCHET SPANNER 12	1
4628 13	FORKED RING-RATCHET SPANNER 13	1
4628 14	FORKED RING-RATCHET SPANNER 14	1
4628 15	FORKED RING-RATCHET SPANNER 15	1
4628 16	FORKED RING-RATCHET SPANNER 16	1
4628 17	FORKED RING-RATCHET SPANNER 17	1
4628 18	FORKED RING-RATCHET SPANNER 18	1
4628 19	FORKED RING-RATCHET SPANNER 19	1
4628 21	FORKED RING-RATCHET SPANNER 21	1
4628 22	FORKED RING-RATCHET SPANNER 22	1
4628 24	FORKED RING-RATCHET SPANNER 24	1
4628 27	FORKED RING-RATCHET SPANNER 27	1
4628 30	FORKED RING-RATCHET SPANNER 30	1
4628 32	FORKED RING-RATCHET SPANNER 32	1
4628 34	FORKED RING-RATCHET SPANNER 34	1

(SW mm)

Technical Data

Art. No.	Length mm
4628 6	130
4628 7	140
4628 8	140
4628 9	149
4628 10	159
4628 11	165
4628 12	171
4628 13	178
4628 14	190
4628 15	199
4628 16	208
4628 17	225
4628 18	236
4628 19	248
4628 22	291
4628 24	323
4628 27	331
4628 30	389
4628 32	415
4628 34	457

Forked Ring-Ratchet Spanner Set Professional

Art. No. 4628V 90 and Art. No. 4628V 91:

- In VAROsoft tool deposit 9026 61

Art. No. 4628V 94:

- In VAROsoft tool desposit 9026 716



4628 90



4628V 90



4628V 91



4628V 94

Article No.	Article Description	QTY
4628 90	FORKED RING-RATCH.SPAN.SET 6P.	1
4628V 90	VS-FO-RI-RATCH.SPANNER SET 6P.	1
4628V 91	VS-FO-RI-RATCH.SPANNER SET12P.	1
4628V 94	VS-FO-RI-RATCH.SPANNER SET 3P.	1

Art. No. 4628 90 and Art. No. 4628V 90:

- 1x AGR 4628 Forked ring ratchet spanner Professional SW 8/10/12/13/17/19

Art. No. 4628V 91:

- 1x AGR 4628 Forked ring ratchet spanner Professional SW 8/9/10/11/12/13/14/15/16/17/18/19

Art. No. 4628V 94:

- 1x AGR 4628 Forked ring ratchet spanner Professional SW 22/24/27

Combination wrench Joker **FÖRCH*******

- Design with double 6-edge geometry
- very small returning angle 30° instead of 60°, and a straight head makes turning the wrench unnecessary
- positive connection of the jaw with screw or nut
- metal plate as end stop for preventing the risk of the screw head sliding down
- the risk of slipping is reduced, even at high torques, due to the toughened points of the metal plate in the wrench's jaw
- the practical hold function in the wrench's jaw provides a direct and safe threading, whereby the screw or nut is prevented from falling
- fine tooth ratchet mechanism with 80 teeth on the ring side provide high flexibility in narrow places
- forged from chrome molybdenum steel with nickel-chrome coating for high wear resistance and high corrosion protection



Article No.	Article Description	QTY
4628 5 8	COMBI.RATCH.SPAN.JOKER SW8 5*	1
4628 5 10	COMBI.RATCH.SPAN.JOKER SW10 5*	1
4628 5 11	COMBI.RATCH.SPAN.JOKER SW11 5*	1
4628 5 12	COMBI.RATCH.SPAN.JOKER SW12 5*	1
4628 5 13	COMBI.RATCH.SPAN.JOKER SW13 5*	1
4628 5 14	COMBI.RATCH.SPAN.JOKER SW14 5*	1 b
4628 5 15	COMBI.RATCH.SPAN.JOKER SW15 5*	1 b
4628 5 16	COMBI.RATCH.SPAN.JOKER SW16 5*	1
4628 5 17	COMBI.RATCH.SPAN.JOKER SW17 5*	1
4628 5 18	COMBI.RATCH.SPAN.JOKER SW18 5*	1
4628 5 19	COMBI.RATCH.SPAN.JOKER SW19 5*	1
4628 5 516	COMBI.RATCH.SPAN.JOK. 5/16" 5*	1
4628 5 38	COMBI.RATCH.SPAN.JOKER 3/8" 5*	1
4628 5 716	COMBI.RATCH.SPAN.JOK. 7/16" 5*	1 r
4628 5 12 1	COMBI.RATCH.SPAN.JOKER 1/2" 5*	1 r
4628 5 916	COMBI.RATCH.SPAN.JOK. 9/16" 5*	1
4628 5 58	COMBI.RATCH.SPAN.JOKER 5/8" 5*	1
4628 5 1116	COMBI.RATCH.SPAN.JOK. 11/16" 5*	1
4628 5 34	COMBI.RATCH.SPAN.JOKER 3/4" 5*	1 r

Technical Data

Art.-No.	length mm	measurement
4628 5 8	145	metric
4628 5 10	159	
4628 5 11	165	
4628 5 12	172	
4628 5 13	177	
4628 5 14	188	
4628 5 15	200	
4628 5 16	212	
4628 5 17	224	
4628 5 18	235	
4628 5 19	246	inch (American)
4628 5 516	170	
4628 5 38	175	
4628 5 716	185	
4628 5 12 1	188	
4628 5 916	198	
4628 5 58	226	
4628 5 1116	250	
4628 5 34	262	

Combination wrench set Joker **FÖRCH*******

art. no. 4628 5 100:

- 4-pieces

art. no. 4628V 11:

- 11-pce
- in VAROsoft system art. no. 9026 61



4628 5 100

Article No.	Article Description	QTY
4628 5 100	COMBI.RATCH.SPAN.JOKER 4PCS 5*	1
4628V 11	VS-FO-RI-RATCH.SPAN.SET 11P 5*	1

contents art.no. 4628 5 100:



4628V 11

Combination Wrench HR

- Ring 15° angled, with retaining ring
- Downward slipping of combination wrench HR is prevented due to nut retaining ring
- The retaining ring pushes itself outwards into the nut due to low pressure - thus the wrench can be moved in any combination, downwards and upwards to the next nut along the threaded rod or bolt
- High torque according to DIN 899
- Fine toothed, 72 teeth
- Switching of direction via lever click benefits screwing of threaded rods and long bolts (when wrench should not to be taken from the nut)
- 15° offset combination wrench makes freedom of action possible
- Low installation height of HR-head is still possible in spite of switch lever



Article No.	Article Description	QTY
4627 6	COMBINATION WRENCH 15' 6	1
4627 7	COMBINATION WRENCH 15' 7	1
4627 8	COMBINATION WRENCH 15'HR8	1
4627 9	COMBINATION WRENCH 15'HR9	1
4627 10	COMBINATION WRENCH 15'HR10	1
4627 11	COMBINATION WRENCH 15'HR11	1
4627 12	COMBINATION WRENCH 15'HR12	1
4627 13	COMBINATION WRENCH 15'HR13	1
4627 14	COMBINATION WRENCH 15'HR14	1
4627 15	COMBINATION WRENCH 15'HR15	1
4627 16	COMBINATION WRENCH 15'HR16	1
4627 17	COMBINATION WRENCH 15'HR17	1
4627 18	COMBINATION WRENCH 15'HR18	1
4627 19	COMBINATION WRENCH 15'HR19	1
4627 22	COMBINATION WRENCH 15'HR22	1
4627 24	COMBINATION WRENCH 15'HR24	1
4627 27	COMBINATION WRENCH 15'HR27	1
4627 30	COMBINATION WRENCH 15'HR30	1
4627 32	COMBINATION WRENCH 15'HR32	1

Technical Data

Art. No.	Length mm
4627 6*	130
4627 7*	140
4627 8	140
4627 9	149
4627 10	159
4627 11	165
4627 12	171
4627 13	178
4627 14	190
4627 15	199
4627 16	208
4627 17	225
4627 18	236
4627 19	248
4627 22*	291
4627 24*	323
4627 27*	360
4627 30*	402
4627 32*	425

* without holding ring

Combination Wrench Sets HR

Art. No. 4627V 50 and 4627V 012:

- In VAROsoft tool deposit 9026 61



4627V 50



4627V 012

Article No.	Article Description	QTY
4627 50	COMBINATION WRENCH SET HR 5-PA	1
4627V 50	VS-COMBIN.WRENCH SET HR 5-PART	1
4627V 012	VS-F.RING-RATCH.SPA.SET HR12P	1

Art.-No. 4627 50 and 4627V 50:

- 1-each SW 8/10/13/17/19

Art.-No. 4627V 012:

- 1-each SW 8/9/10/11/12/13/14/15/16/17/18/19

Forked Ring-Ratchet Spanner with Hinge

- With 180° pivoted head
- Fine toothed with 72 teeth
- Bi-hexagonal ring
- Especially suitable for areas difficult to access



Article No.	Article Description	QTY
4629 8	HI.-FORK-RING-RATCHET SPAN. 8	1
4629 9	HI.-FORK-RING-RATCHET SPAN. 9	1
4629 10	HI.-FORK-RING-RATCHET SPAN. 10	1
4629 11	HI.-FORK-RING-RATCHET SPAN. 11	1
4629 12	HI.-FORK-RING-RATCHET SPAN. 12	1
4629 13	HI.-FORK-RING-RATCHET SPAN. 13	1
4629 14	HI.-FORK-RING-RATCHET SPAN. 14	1
4629 15	HI.-FORK-RING-RATCHET SPAN. 15	1
4629 16	HI.-FORK-RING-RATCHET SPAN. 16	1
4629 17	HI.-FORK-RING-RATCHET SPAN. 17	1
4629 18	HI.-FORK-RING-RATCHET SPAN. 18	1
4629 19	HI.-FORK-RING-RATCHET SPAN. 19	1

(SW mm)

Technical Data		
Art. No.	Length mm	max. capacity in Nm
4629 8	126	36
4629 9	132	48
4629 10	135	85
4629 11	141	96
4629 12	148	109
4629 13	152	138
4629 14	160	189
4629 15	169	240
4629 16	178	296
4629 17	190	320
4629 18	202	364
4629 19	214	387

Forked Ring-Ratchet Spanner Set with Hinge

Art. No. 4629V 1 and Art. No. 4629V 012:

- In VAROsoft tool deposit Art. No. 9026 61



4629V 1



4629V 012

Article No.	Article Description	QTY
4629 1	HINGE-FO-RING SPANNER SET 5PA.	1
4629V 1	VS-HINGE-FO-RI-RATCHET SET 5P.	1
4629V 012	VS-HINGE-FO-RI-RATCHET SET12P.	1

Contents Art.-No. 4629 1 and 4629V 1:

- 1x SW 8/10/13/17/19

Contents Art.-No. 4629V 012:

- 1x SW 8/9/10/11/12/13/14/15/16/17/18/19

Reversible ratchet wrench set with hinge XL, 5-pce

- Chrome vanadium steel, chrome-plated and polished
- Extra long double ring joint ratchet
- Heads can swivel by 180°
- Fine tooth ratchet mechanism 72 teeth, rotation angle of 5°
- Protruding 12-edge rings for better access
- Change of direction using the slide mechanism, without turning the wrench
- They are particularly suitable for tight rooms and hard to reach spaces e.g. engine compartment or gearbox work due to the additional length



Article No.	Article Description	QTY
4624 12 14	RING RAT.SPAN.W.HINGE XL 12X14	1

Technical Data

Length mm	Ring height mm	Max capacity in Nm SW / SW
330	19	89,1 / 107

Forked-Ratchet Spanner

- With two same spanner sizes - a forked ratchet and a conventional robust fork
- This open ratchet spanner is ideal for all narrow areas
- It can be used with a radius of only 30°
- The spanner always stays open and is also a problem solver for special screws e.g. brake lines, Diesel injection lines etc.
- Thinly formed but with a very sturdy design



Article No.	Article Description	QTY
4628 10 3	FORKED RATCHET SPANNER SW10	1
4628 11 3	FORKED RATCHET SPANNER SW11	1
4628 12 3	FORKED RATCHET SPANNER SW11	1
4628 13 3	FORKED RATCHET SPANNER SW13	1
4628 14 3	FORKED RATCHET SPANNER SW14	1
4628 15 3	FORKED RATCHET SPANNER SW15	1
4628 16 3	FORKED RATCHET SPANNER SW16	1
4628 17 3	FORKED RATCHET SPANNER SW17	1
4628 18 3	FORKED RATCHET SPANNER SW18	1
4628 19 3	FORKED RATCHET SPANNER SW19	1

Technical Data

Art. No.	Length mm
4628 10 3	116
4628 11 3	127
4628 12 3	138
4628 13 3	144
4628 14 3	153
4628 15 3	164
4628 16 3	170
4628 17 3	180
4628 18 3	198
4628 19 3	202

Forked Ratchet Spanner Set

Contents:

Art. No.	Article Description	Quantity
4628 10 3	FORKED RATCHET SPANNER SW10	1
4628 11 3	FORKED RATCHET SPANNER SW11	1
4628 12 3	FORKED RATCHET SPANNER SW11	1
4628 13 3	FORKED RATCHET SPANNER SW13	1
4628 17 3	FORKED RATCHET SPANNER SW17	1
4628 19 3	FORKED RATCHET SPANNER SW19	1

Article No.	Article Description	QTY
4628 94	FORKED RATCH.SPANNER SET 6 PA.	1



Adjustable Spanner

- Progressively adjustable

Article No.	Article Description	QTY
4608 8	ADJ.SPANNER SW0-25 205MM CP	1
4608 12	ADJ.SPANNER SW0-35 310MM CP	1
4608 15	ADJ.SPANNER SW0-44 385MM CP	1



Joint Hook Wrench with Nib

- For slotted nuts according to DIN 1084/981



Article No.	Article Description	QTY
4633 19 50	JOINT HOOK WRENCH 19- 50MM	1
4633 32 76	JOINT HOOK WRENCH 32- 76MM	1
4633 50 120	JOINT HOOK WRENCH 50-120MM	1
4633 114 158	JOINT HOOK WRENCH 114-158MM	1

Technical Data			
Art-No.	Spread Ø mm	Length mm	Nib Ø mm
4633 19 50	19 - 50	160	9.0
4633 32 76	32 - 76	205	10.2
4633 50 120	50 - 120	285	12.5
4633 114 158	114 - 158	305	12.6

Joint Pin Wrench

- For cross hole nuts according to DIN 1816



Article No.	Article Description	QTY
4634 19 50	JOINT PIN WRENCH 19-50MM	1
4634 32 76	JOINT PIN WRENCH 32-76MM	1
4634 50 120	JOINT PIN WRENCH 50-120MM	1
4634 114 158	JOINT PIN WRENCH 114-158MM	1

Technical Data			
Art-No.	Spread Ø mm	Length mm	Pin -Ø mm
4634 19 50	19 - 50	160	4
4634 32 76	32 - 76	205	5
4634 50 120	50 - 120	285	6
4634 114 158	114 - 158	305	8

Open-ended spanner, 2-way insulation

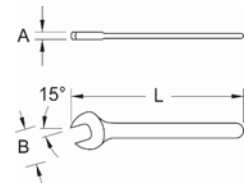
- In compliance with DIN 7446
- Dipped insulation as per DIN EN 60900
- Jaw position angled 15°
- Chrome vanadium



Article No.	Article Description	QTY
4592 6	OPEN END WRENCH SW 6	1
4592 7	OPEN END WRENCH SW 7	1
4592 8	OPEN END WRENCH SW 8	1
4592 9	OPEN END WRENCH SW 9	1
4592 10	OPEN END WRENCH SW 10	1
4592 11	OPEN END WRENCH SW 11	1
4592 12	OPEN END WRENCH SW 12	1
4592 13	OPEN END WRENCH SW 13	1
4592 14	OPEN END WRENCH SW 14	1
4592 15	OPEN END WRENCH SW 15	1
4592 16	OPEN END WRENCH SW 16	1
4592 17	OPEN END WRENCH SW 17	1
4592 18	OPEN END WRENCH SW 18	1
4592 19	OPEN END WRENCH SW 19	1
4592 22	OPEN END WRENCH SW 22	1
4592 24	OPEN END WRENCH SW 24	1
4592 27	OPEN END WRENCH SW 27	1
4592 30	OPEN END WRENCH SW 30	1
4592 32	OPEN END WRENCH SW 32	1

Technical Data

SW mm	A mm	B mm	L mm
6	12.0	23.5	70.1
7	12.0	25.0	77.0
8	12.5	27.2	84.0
9	12.5	29.2	90.0
10	13.0	31.2	97.0
11	13.4	33.3	104.0
12	13.5	35.2	110.0
13	13.9	37.4	117.0
14	14.2	39.5	124.0
15	14.4	41.2	130.0
16	14.7	42.7	137.0
17	14.9	44.5	144.0
18	15.2	46.7	150.0
19	15.4	48.7	157.0
22	16.2	54.9	174.0
24	16.7	58.4	190.0
27	17.4	63.7	210.0
30	18.1	69.8	230.0
32	18.4	65.8	244.0



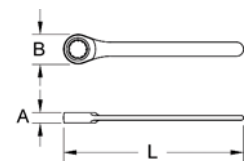
Ratchet ring key, 2-way insulation

- Flank traction profile
- In compliance with DIN 7446
- Dipped insulation as per DIN EN 60900
- Straight shape
- Precisely interlocked with 72 teeth
- Chrome Vanadium



Technical Data

SW mm	A mm	B mm	L mm
6	6.7	14.4	126
7	6.9	17.2	137
8	6.9	17.2	140
9	7.3	19.2	150
10	7.7	21.2	159
11	8.1	22.2	165
12	8.6	23.2	172
13	9.0	25.2	178
14	9.4	28.2	191
15	9.8	29.2	200
16	10.3	31.2	208
17	10.7	32.2	226
18	11.1	33.2	237
19	11.6	34.2	248
21	13.4	40.4	274
22	13.4	40.4	290
24	14.9	46.4	323
27	15.9	52.4	331
30	17.4	59.2	389
32	17.9	62.4	415
34	17.9	62.4	460



Ring spanner, cranked, 2-way insulation

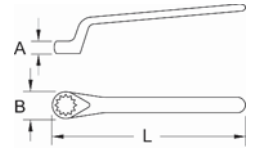
- Flank traction profile
- In compliance with DIN 7447
- Dipped insulation as per DIN EN 60900
- Ring cranked 75°
- Chrome vanadium



Article No.	Article Description	QTY
4594 6	CURVED RING WRENCH SW 6	1
4594 7	CURVED RING WRENCH SW 7	1
4594 8	CURVED RING WRENCH SW 8	1
4594 9	CURVED RING WRENCH SW 9	1
4594 10	CURVED RING WRENCH SW 10	1
4594 11	CURVED RING WRENCH SW 11	1
4594 12	CURVED RING WRENCH SW 12	1
4594 13	CURVED RING WRENCH SW 13	1
4594 14	CURVED RING WRENCH SW 14	1
4594 15	CURVED RING WRENCH SW 15	1
4594 16	CURVED RING WRENCH SW 16	1
4594 17	CURVED RING WRENCH SW 17	1
4594 18	CURVED RING WRENCH SW 18	1
4594 19	CURVED RING WRENCH SW 19	1
4594 22	CURVED RING WRENCH SW 22	1
4594 24	CURVED RING WRENCH SW 24	1
4594 27	CURVED RING WRENCH SW 27	1
4594 30	CURVED RING WRENCH SW 30	1
4594 32	CURVED RING WRENCH SW 32	1

Technical Data

SW mm	A mm	B mm	L mm
6	6.1	13.6	160
7	6.7	12.6	160
8	7.1	14.0	170
9	7.4	15.5	170
10	7.8	17.0	170
11	8.1	18.4	180
12	10.2	19.9	190
13	10.9	21.3	190
14	11.3	22.8	210
15	11.9	24.1	215
16	12.2	25.7	220
17	12.6	27.1	225
18	13.2	28.6	230
19	13.6	30.1	240
22	13.9	34.4	260
24	15.4	36.2	280
27	16.4	40.4	295
30	17.4	44.4	310
32	18.4	47.4	330



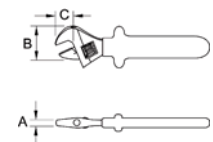
Monkey wrench, 2-way insulation

- In compliance with DIN 3117
- Dipped insulation as per DIN EN 609000
- Jaw position angled 15°
- Swedish design
- With mm scale
- Satin matt finish
- Chrome vanadium



Technical Data

SW mm	A mm	B mm	C mm
24.0	12.0	55.0	30.0
30.0	14.0	77.0	40.0
34.0	17.5	78.0	48.0



Kraftform Screwdriver Set **FÖRCH**★★★★★

- With all-through blade and impact cap
- 1/4" square intake
- Impact-resistant Black-Point-Tip
- Hexagon blade
- Hexagon key assistance at the handle
- 3K: Multi-component Kraftform-handle with roll protection for highest torques and optimum grip
- T-handle ratchet for powerful, quick and low fatigue workings
- In VAROsoft-tool deposit Art.-No. 9026 629



Contents:

Art. No.	Article Description	Quantity
4200 35	MC.SCREWDRIV.PASS.BL. 3.5 5*	1
4200 45 50	MC.SCREWDRIV.PASS.BLADE 4.5 5*	1
4200 55 50	MC.SCREWDRIV.PASS.BLADE 5.5 5*	1
4200 7 50	MC.SCREWDRIV.PASS.BLADE 7 5*	1
4201 1 50	MC.SCREWDRIV.PASS.BLADE PH1 5*	1
4201 2 50	MC.SCREWDRIV.PASS.BLADE PH2 5*	1
4202 14 4	1/4"SQUARE T-HANDLE RATCHET	1

Article No.	Article Description	QTY
4209V 3	VS-MC SREWDRIVER SET 5* 7-PCS	1

Art. No. 4200 35: without impact cap, hexagon key assistance and square intake



Kraftform-Screwdriver, Slotted LS **FÖRCH**★★★★★

- With all-through blade and impact cap
- 1/4" square intake
- Impact-resistant Black-Point-Tip
- Hexagon blade
- Hexagon key assistance at the handle
- 3-K: Multi-component Kraftform-handle with roll protection for highest torques and optimum grip



Technical Data

Blade width mm	Blade thickness mm	Blade length mm
4.5	0.8	100
5.5	1.0	103
7.0	1.2	138

Kraftform-Screwdriver, Cross Recess PH **FÖRCH**★★★★★

- With all-through blade and impact cap
- 1/4" square intake
- Impact-resistant Black-Point-Tip
- Hexagon blade
- Hexagon key assistance at the handle
- 3K: Multi-component Kraftform-handle with roll protection for highest torques and optimum grip



Technical Data

Version	Blade length mm
PH 1	90
PH 2	113

Kraft-Screwdriver Set

- 1/4" square drive at handle for the T-handle ratchet intake
- T-handle ratchet for especially powerful, fast and fatigue-proof screwing without putting down
- The adjustment of the rotation at the ratchet takes place at the knurled single-handed change-over ring
- More rotary performance due to lever effect with ratchet
- Through-going blade with reinforced handle and impact cap
- Hexagon blade
- Hexagon intake at the handle
- Very tough and impact-resistant top
- Specific handy multi component handle for highest torque values

Article No. 4202 90:

- In VAROsoft tool deposit 9026 613

Article No.	Article Description	QTY
4202 90	FÖRCH-KRAFT SCREWDRIV.SET 7-PA	1
4202V 90	VS-FÖ-KRAFT SCREWDRIV.SET 7-PA	1
4202 91	FÖRCH-KRAFT SCREWDRIV.SET 6-PA	1

Article No. 4202 91:

- 1x LS 3.5/4.5/5.5/7.0
- PH 1/2

Article No. 4202 90 and 4202V 90:

- 1x LS 3.5/4.5/5.5/7.0
- PH 1/2
- T-handle ratchet 1/4" square



Kraft-Screwdriver Slot LS

Technical Data

Art. No.	Blade-width mm	Blade-strength mm	Blade-length mm
4202 35	3.5	0.6	80
4202 45	4.5	0.8	90
4202 55	5.5	1.0	100
4202 7	7.0	1.2	125
4202 10	10.0	1.8	180

Article No.	Article Description	QTY
4202 35	KRAFT-SCREW.PASS.BLADE LS 3.5	1
4202 45	KRAFT-SCREW.PASS.BLADE LS 4.5	1
4202 55	KRAFT-SCREW.PASS.BLADE LS 5.5	1
4202 7	KRAFT-SCREW.PASSING BLADE LS 7	1
4202 10	KRAFT-SCREW.PASSING BLADE LS10	1



Kraft-Phillips Screwdriver

Technical Data

Art.-No.	Models	Blade length mm
4202 0	PH 0	60
4202 1	PH 1	80
4202 2	PH 2	100
4202 3	PH 3	155
4202 4	PH 4	205

Article No.	Article Description	QTY
4202 0	KRAFT-SCREW.PASSING BLADE PH 0	1
4202 1	KRAFT-SCREW.PASSING BLADE PH 1	1
4202 2	KRAFT-SCREW.PASSING BLADE PH 2	1
4202 3	KRAFT-SCREW.PASSING BLADE PH 3	1
4202 4	KRAFT-SCREW.PASSING BLADE PH 4	1



Kraft-Cross Slot Screwdriver PZ

Technical Data

Art.-No.	Models	Blade length mm
4202 0 1	PZ 0	60
4202 1 1	PZ 1	80
4202 2 1	PZ 2	100
4202 3 1	PZ 3	155

Article No.	Article Description	QTY
4202 0 1	KRAFT-SCREW.PASSING BLADE PZ 0	1
4202 1 1	KRAFT-SCREW.PASSING BLADE PZ 1	1
4202 2 1	KRAFT-SCREW.PASSING BLADE PZ 2	1
4202 3 1	KRAFT-SCREW.PASSING BLADE PZ 3	1



Square T-Handle Ratchet 1/4"

- For especially powerful, fast and fatigue-proof screwing without putting down
- The adjustment of the rotation at the ratchet takes place at the knurled single-handed change-over ring

Article No.	Article Description	QTY
4202 14 4	1/4" SQUARE T-HANDLE RATCHET	1



Kraft-Screwdriver Set TX

- 1/4" Driver square on the handle to intake the T-handle ratchet
- T-handle ratchet for powerful, fast and efficient screwing without stopping
- Change screw direction on the ratchet with one hand switch
- More operating torque due to lever effect of the ratchet
- Continuous blade, enforced within the handle with lug strap
- Hexagonal blade
- Hexagonal intake at the handle
- Solid, shock proof point
- Very handy multi component handle for best possible torque values

Art.-Nr. 4203V 1 und 4203V 1 1:

- With VAROsoft tool tray Art.-Nr. 9026 618



Article No.	Article Description	QTY
4203 1	KRAFT-SCREWDRIVER SET TX 6PRT	1
4203 1 1	KRAFT-SCREWDRIV.SET TX KB 6PRT	1
4203V 1	VS-KRAFT-SCREWDRIV.SET TX 7PRT	1
4203V 1 1	VS-KRAFT-SCREWDRIVER SET TX KB	1

Contents Art.-Nr. 4203 1:

Art. No.	Article Description	Quantity
4203 10	KRAFT-SCREWDRIVER DG.KL TX10	1
4203 15	KRAFT-SCREWDRIVERDG.KL TX15	1
4203 20	KRAFT-SCREWDRIVER DG.KL. TX20	1
4203 25	KRAFT-SCREWDRIVER DG.KL TX25	1
4203 30	KRAFT-SCREWDRIVER DG.KL TX30	1
4203 40	KRAFT-SCREWDRIVER DG.KL TX40	1

Contents Art.-Nr. 4203 1 1:

Art.-No.	Article Description	Quantity
4203 10 1	KRAFT-SCREWDRIV.DG.KL TX10M.KB	1
4203 15 1	KRAFT-SCREWDRIV.DG.KL TX15M.KB	1
4203 20 1	KRAFT-SCREWDRIV.DG.KL TX20M.KB	1
4203 25 1	KRAFT-SCREWDRIV.DG.KL TX25M.KB	1
4203 30 1	KRAFT-SCREWDRIV.DG.KL TX30M.KB	1
4203 40 1	KRAFT-SCREWDRIV.DG.KL TX40M.KB	1

Contents Art.-Nr. 4203V 1:

Art.-No.	Article Description	Quantity
4202 14 4	1/4"SQUARE T-HANDLE RATCHET	1
4203 10	KRAFT-SCREWDRIVER DG.KL TX10	1
4203 15	KRAFT-SCREWDRIVERDG.KL TX15	1
4203 20	KRAFT-SCREWDRIVER DG.KL. TX20	1
4203 25	KRAFT-SCREWDRIVER DG.KL TX25	1
4203 30	KRAFT-SCREWDRIVER DG.KL TX30	1
4203 40	KRAFT-SCREWDRIVER DG.KL TX40	1

Contents Art.-Nr. 4203V 1 1:

Art.-No.	Article Description	Quantity
4202 14 4	1/4"SQUARE T-HANDLE RATCHET	1
4203 10 1	KRAFT-SCREWDRIV.DG.KL TX10M.KB	1
4203 15 1	KRAFT-SCREWDRIV.DG.KL TX15M.KB	1
4203 20 1	KRAFT-SCREWDRIV.DG.KL TX20M.KB	1
4203 25 1	KRAFT-SCREWDRIV.DG.KL TX25M.KB	1
4203 30 1	KRAFT-SCREWDRIV.DG.KL TX30M.KB	1
4203 40 1	KRAFT-SCREWDRIV.DG.KL TX40M.KB	1

Kraft Screwdriver TX

Technical Data

Art.-No.	Model	Blade length mm
4203 10	TX 10	100
4203 15	TX 15	100
4203 20	TX 20	100
4203 25	TX 25	100
4203 27	TX 27	100
4203 30	TX 30	100
4203 40	TX 40	100

Article No.	Article Description	QTY
4203 10	KRAFT-SCREWDRIVER DG.KL TX10	1
4203 15	KRAFT-SCREWDRIVERDG.KL TX15	1
4203 20	KRAFT-SCREWDRIVER DG.KL. TX20	1
4203 25	KRAFT-SCREWDRIVER DG.KL TX25	1
4203 27	KRAFT-SCREWDRIVER DG.KL TX27	1
4203 30	KRAFT-SCREWDRIVER DG.KL TX30	1
4203 40	KRAFT-SCREWDRIVER DG.KL TX40	1



TX Screwdriver with Head Drill Hole

Technical Data

Art. No.	Model	Blade length mm
4203 10 1	TX 10	100
4203 15 1	TX 15	100
4203 20 1	TX 20	100
4203 25 1	TX 25	100
4203 27 1	TX 27	100
4203 30 1	TX 30	100
4203 40 1	TX 40	100

Article No.	Article Description	QTY
4203 10 1	KRAFT-SCREWDRIV.DG.KL TX10M.KB	1
4203 15 1	KRAFT-SCREWDRIV.DG.KL TX15M.KB	1
4203 20 1	KRAFT-SCREWDRIV.DG.KL TX20M.KB	1
4203 25 1	KRAFT-SCREWDRIV.DG.KL TX25M.KB	1
4203 27 1	KRAFT-SCREWDRIV.DG.KL TX27M.KB	1
4203 30 1	KRAFT-SCREWDRIV.DG.KL TX30M.KB	1
4203 40 1	KRAFT-SCREWDRIV.DG.KL TX40M.KB	1



Hexagonal Screwdriver

Technical Data		
Art.-No.	Driver width mm	Blade length mm
4204 7	7	115
4204 8	8	130
4204 10	10	130
4204 13	13	130

Article No.	Article Description	QTY
4204 7	KRAFT-A-HEX SCREWDRIVER SW 7	1
4204 8	KRAFT-A-HEX SCREWDRIVER SW 8	1
4204 10	KRAFT-A-HEX SCREWDRIVER SW 10	1
4204 13	KRAFT-A-HEX SCREWDRIVER SW 13	1



Kraft-Form Screwdriver Set Multicomponent **FÖRCH** ★★★★★

- With passing blade and impact cap
- Extra tough and impact-resistant Black-point-top
- Hexagon blade
- Hexagon spanner lug at the handle
- Multicomponent Kraft handle for highest torque values and optimum feel
- Passing blade and impact cap at the handle

Art. No. 4209V 1:

- In VAROsoft tool deposit Art. No. 9026 62

Contents Art.-Nr. 4209 10:

Art. No.	Article Description	Quantity
4200 35	MC-SCREWDRIV.PASSING BLADE 3.5	1
4200 45	MC-SCREWDRIV.PASSING BLADE 4.5	1
4200 55	MC-SCREWDRIV.PASSING BLADE 5.5	1
4200 7	MC-SCREWDRIV.PASSING BLADE 7	1
4205 1	MC-PZ SCREWDR.PASS.BLADE PZ 1	1
4205 2	MC-PZ SCREWDR.PASS.BLADE PZ 2	1



Article No.	Article Description	QTY
4209 1	MC-PH-SCREWDR.SET PASS.BL.6-PA	1
4209V 1	VS-SCREWDRIVER SET MC 6-PART	1
4209 10	MC-PZ-SCREWDR.SET.PASS.BL.6-PA	1

Art. No. 4209 1 and 4209V 1:

- 1x LS 3,5/4,5/5,5/7
- 1x PH 1/2

Kraft-Form Screwdriver Slot LS **FÖRCH*******



Article No.	Article Description	QTY
4200 35	MC-SCREWDRIV.PASS.BL. 3.5 5*	1 z
4200 45	MC-SCREWDRIV.PASS.BL.4.5 5*	1 z
4200 55	MC-SCREWDRIV.PASS.BL.5.5 5*	1 z
4200 7	MC-SCREWDRIV.PASS.BL.7 5*	1 z
4200 9	MC-SCREWDRIV.PASS.BL. 9 5*	1 z
4200 10	MC-SCREWDRIV.PASS.BL.10 5*	1 ü
4200 12	MC-SCREWDRIV.PASS.BL.12 5*	1 ü
4200 14	MC-SCREWDRIV.PASS.BL.14 5*	1 ü

Technical Data

Art. No.	Blade- width mm	Blade - strength mm	Blade- length mm
4200 35*	3.5	0.6	80
4200 45	4.5	0.8	90
4200 55	5.5	1.0	100
4200 7	7.0	1.2	125
4200 9	9.0	1.6	150
4200 10	10.0	1.6	175
4200 12*	12.0	2.0	200
4200 14*	14.0	2.5	250

* without multicomponent handle and impact cap

Kraft-Form Screwdriver Cross Slot PH, PZ **FÖRCH*******

- With passing blade and impact cap
- Extra tough and impact-resistant Black-point-top
- Hexagon blade
- Hexagon spanner lug at the handle
- Multicomponent Kraft handle for highest torque values and optimum feel
- Passing blade and impact cap at the handle
- With roll protection

Art. No. 4201 0 and 4205 0:

- Without passing blade and hexagon lug



Article No.	Article Description	QTY
4201 0	MC SCREWDRIVER PH 0 5*	1 ü
4201 1	MC SCREWDR.PH 1 PASS BLADE 5*	1 z
4201 2	MC SCREWDR.PH 2 PASS BLADE 5*	1 z
4201 3	MC SCREWDR.PH 3 PASS.BLADE 5*	1 ü
4201 4	MC SCREWDR.PH4 PASS.BLADE 5*	1 ü
4205 0	MC SCREWDRIVER PZ 0 5*	1 z
4205 1	MC SCREWDR.PZ 1 PASS.BLADE 5*	1 z
4205 2	MC SCREWDR.PZ2 PASS.BLADE 5*	1 z
4205 3	MC SCREWDR.PZ 3 PASS.BLADE 5*	1 ü

Technical Data

Art. No.	Design	Blade- length mm
4201 0	PH 0	60
4201 1	PH 1	80
4201 2	PH 2	100
4201 3	PH 3	150
4201 4	PH 4	200
4205 0	PZ 0	60
4205 1	PZ 1	80
4205 2	PZ 2	100
4205 3	PZ 3	150

Kraft-Form Screwdriver Set Lasertip

- With Lasertip - top - Prevents slipping of the blade - For more torque and life of the blade
- Multicomponent Kraft handle
- Hexagon blade and hexagon lug at the handle

Art. No. 4239V10:

- In VARO tool deposit Art. No. 9026 62



Article No.	Article Description	QTY
4239 10	PH-SCREWDR.SET LASERT.6-PART10	1
4239V 10	VS-PH SCREWD.SET LASERTIP 6-PA	1
4239 11	PZ-SCREWD.SET LASERTIP 6-PA.11	1

Art. No. 4239 10 and 4239V 10:

- 1x LS 3.5/4/5.5/7
- 1x PH 1/2

Art. No. 4239 11:

- 1x LS 3.5/4/5.5/7
- 1x PZ 1/2

Due to narrowly focused laser-light a sharp-edged surface structure is burnt-in. This material mixture is extremely abrasion resistant. The Lasertip claws itself to the screw head and reliably prevents a slipping out of the screw head at the same time.

Kraft-Form Screwdriver Lasertip Slot LS **FÖRCH*******



Article No.	Article Description	QTY
4235 35	SCREWDRIVER LASERTIP 3.5 5*	1 z
4235 4	SCREWDRIVER LASERTIP 4.0 5*	1 z
4235 55	SCREWDRIVER LASERTIP 5.5 5*	1 z
4235 7	SCREWDRIVER LASERTIP 7 5*	1 z
4235 9	SCREWDRIVER LASERTIP 9 5*	1 z

Technical Data				
Art. No.	Blade-width mm	Blade-strength mm	Blade-length mm	Wrench support
4235 35	3,5	0,6	75	-
4235 4	4,0	0,8	90	-
4235 55	5,5	1,0	100	yes
4235 7	7,0	1,2	125	yes
4235 9	9,0	1,6	150	yes

Kraft-Form Screwdriver Lasertip PH, PZ **FÖRCH*******



Article No.	Article Description	QTY
4237 0	PH-SCREWDRIVER LASERTIP 0 5*	1 ü
4237 1	PH-SCREWDRIVER LASERTIP 1 5*	1 z
4237 2	PH-SCREWDRIVER LASERTIP 2 5*	1 z
4238 1	PZ-SCREWDRIVER LASERTIP 1 5*	1 z
4238 2	PZ-SCREWDRIVER LASERTIP 2 5*	1 z

Technical Data			
Art.-No.	Design	Blade length mm	Wrench support
4237 0	PH 0	60	-
4237 1	PH 1	80	yes
4237 2	PH 2	100	yes
4238 1	PZ 1	80	yes
4238 2	PZ 2	100	yes

VDE-Screwdriver Set

- With two-component Kraft handle
- 6-part

Art.-Nr. 4269V 1:

- In VAROsoft tool deposit Art. No. 9026 62

Article No.	Article Description	QTY
4269 1	VDE-SCREWDRIV.SET MC 1 6-PART	1
4269V 1	VS-VDE-SCREWDRIVER SET 6 PART	1
4269 2	VDE-SCREWDRIVER SET MK2 7-PART	1

Content Art.-No. 4269 1 and 4269V 1:

- each 1x LS 2.5 / 3.5 / 4 / 5.5
- each 1x PH 1 / 2

Content Art.-No. 4269 2:

- each 1x LS 2.5 / 3.5 / 4 / 5.5
- each 1x PZ 1 / 2
- 1x voltage tester



Due to tightly focussed laser light a sharp-edged surface structure is burned-in. This mix of material is extremely abrasion-resistant. Lasertip claws deep into the head of a bolt and prevents slipping out effectively.

VDE-Insulated Slotted Screwdriver LS

- Norm: DIN 7437, VDE 0680 part 2/A2, IEC 78, 900



Article No.	Article Description	QTY
4260 25	VDE-SCREWDRIVER MC 2.5	1 z
4260 3	VDE-SCREWDRIVER MC 3	1 z
4260 35	VDE-SCREWDRIVER MC 3.5	1 z
4260 4	VDE-SCREWDRIVER MC 4	1 z
4260 55	VDE-SCREWDRIVER MC 5.5	1 z
4260 65	VDE-SCREWDRIVER MC 6.5	1 z

Technical Data

Art. No.	Blade-width mm	Blade-strength mm	Blade-length mm
4260 25	2.5	0.4	75
4260 3	3.0	0.5	100
4260 35	3.5	0.6	100
4260 4	4.0	0.8	100
4260 55	5.5	1.0	125
4260 65	6.5	1.2	150

VDE-Insulated Screwdriver, PH

- With two-component-power handle
- Norm: DIN 7438, VDE 0680 part 2/A, IEC 78, 900



Technical Data

Art. No.	Design	Blade-length mm
4261 0	PH 0	60
4261 1	PH 1	80
4261 2	PH 2	100
4261 3	PH 3	150

VDE insulated Pozidriv head screwdrivers PZ

- with 2-component power grip
- Standard: DIN 7438, VDE 0680 part 2/A, IEC 78, 900



Technical Data		
Art.-No.	Version	Blade length mm
4268 1	PZ 1	80
4268 2	PZ 2	100



Article No.	Article Description	QTY
4268 1	VDE INS.POZ.HEAD SCREWDR.MK 1	e 5
4268 2	VDE INS.POZ.HEAD SCREWDR.MK 2	e 5

Precision Mechanic-Screwdriver Set LS/PH



• 6-piece in VAROsoft tool deposit Art.-No. 9026 628

Your Advantage / Benefit

- Precision zone for accurate positioning and screwing
- Power zone facilitates increased release / tightening torque
- Rapid turning zone for lightening-quick screwing
- Multi-component grip for ergonomic working
- Roll-away protection
- Hardened Black Point tip guarantees long life and increases corrosion-protection



Precision zone



Power Zone



Rapid screwing zone



Hardened Black Point tip

Application



Article No.	Article Description	QTY
4270V 96	VS-PREC.SCREWD.SET LS/PH 6-PCS	1

Contents:

Art.-No.	Article Description	Quantity
4270 2 15	PRECISION SCREWDRIVER LS 1.5MM	1
4270 2 20	PRECISION SCREWDRIVER LS 2.0MM	1
4270 2 25	PRECISION SCREWDRIVER LS 2.5MM	1
4270 2 30	PRECISION SCREWDRIVER LS 3.0MM	1
4272 2 00	PRECISION SCREWDRIVER PH 00	1
4272 2 0	PRECISION SCREWDRIVER PH 0	1

Related Products

- Fine-knit gloves PU/nitrile foam
Art.-No. 5405 118 8 - 11



- Electrical contact cleaner
Art.-No. 6710 0880



- Screwdriver set 5-piece
Art.-No. 4270V 95



Precision Mechanic-Screwdriver LS

- With 2-component Kraft-grip including with rotary cap

Technische Daten

Art. No.	Blade width mm	Blade length mm	Total length mm
4270 2 12	1,0	40	140
4270 2 15	1,5	60	157
4270 2 18	1,8	60	157
4270 2 20	2,0	60	157
4270 2 25	2,5	80	177
4270 2 30	3,0	80	177
4270 2 35	3,5	80	177

Article No.	Article Description	QTY
4270 2 12	PRECISION SCREWDRIVER LS 1.2MM	1
4270 2 15	PRECISION SCREWDRIVER LS 1.5MM	1 z
4270 2 18	PRECISION SCREWDRIVER LS 1.8MM	1
4270 2 20	PRECISION SCREWDRIVER LS 2.0MM	1 z
4270 2 25	PRECISION SCREWDRIVER LS 2.5MM	1 z
4270 2 30	PRECISION SCREWDRIVER LS 3.0MM	1 z
4270 2 35	PRECISION SCREWDRIVER LS 3.5MM	1



Precision Mechanic-Screwdriver PH

- With 2-component Kraft-grip including rotary cap

Technische Daten

Art. Nor.	Version	Blade length mm	Total length mm
4272 2 00	PH 00	60	157
4272 2 0	PH 0	60	157
7272 2 1	PH 1	80	177

Article No.	Article Description	QTY
4272 2 00	PRECISION SCREWDRIVER PH 00	1 z
4272 2 0	PRECISION SCREWDRIVER PH 0	1 z
4272 2 1	PRECISION SCREWDRIVER PH 1	1



Precision Mechanic Screwdriver Set TX 6-PCE

- 6-pieces in VAROsoft system insert Art.-No. 9026 628



Contents

Art. No.	Article Description	Quantity
4270 3 1	PRECISION MECH-SCREWDRIVER TX1	1
4270 3 2	PRECISION MECH-SCREWDRIVER TX2	1
4270 3 3	PRECISION MECH-SCREWDRIVER TX3	1
4270 3 4	PRECISION MECH-SCREWDRIVER TX4	1
4270 3 5	PRECISION MECH-SCREWDRIVER TX5	1
4270 3 6	PRECISION MECH-SCREWDRIVER TX6	1



Article No.	Article Description	QTY
4270V 94	VS-PREC.SCREWDR.SET TX 6-PIECE	1

Precision Mechanic-Screwdriver TX

- With 2-component Kraft-grip with rotary cap



Technical Data

Art.-No.	Version	Blade length mm	Total length mm
4270 3 1	TX 1	40	137
4270 3 2	TX 2	40	137
4270 3 3	TX 3	40	137
4270 3 4	TX 4	40	137
4270 3 5	TX 5	40	137
4270 3 6	TX 6	40	137



Article No	Article Description	QTY
4270 3 1	PRECISION MECH-SCREWDRIVER TX1	1 z
4270 3 2	PRECISION MECH-SCREWDRIVER TX2	1 z
4270 3 3	PRECISION MECH-SCREWDRIVER TX3	1 z
4270 3 4	PRECISION MECH-SCREWDRIVER TX4	1 z
4270 3 5	PRECISION MECH-SCREWDRIVER TX5	1 z
4270 3 6	PRECISION MECH-SCREWDRIVER TX6	1 z

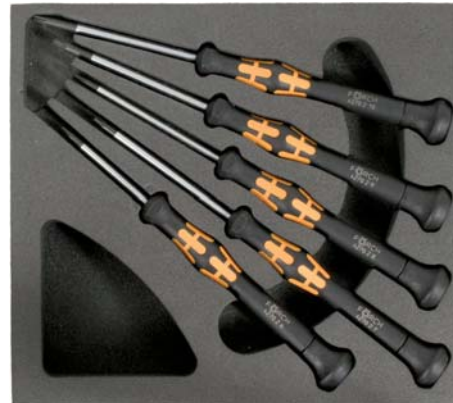
Precision Mechanic-Screwdriver Set TX

- 5-piece in VAROsoft tool deposit Art.-No. 9026 84
- with bored tip
- Art.-No. 4720 2 6:**
- without bored tip

Contents

Art. No.	Article Description	Quantity
4270 2 6	PRECISION-SCREWDRIVER TX 6	1
4270 2 7	PRECISION-SCREWDRIVER TX 7	1
4270 2 8	PRECISION-SCREWDRIVER TX 8	1
4270 2 9	PRECISION-SCREWDRIVER TX 9	1
4270 2 10	PRECISION-SCREWDRIVER TX10	1

Article No.	Article Description	QTY
4270V 95	VS-PREC.SCREWDR.SET TX 5-PIECE	1



Precision Mechanic-Screwdriver TX Bored Tip

- With 2-component Kraft-grip including rotary cap
- With bored tip



Technische Daten

Art.-No.	Version	Blade length mm	Total length mm
4270 2 6*	TX 6	40	137
4270 2 7	TX 7	60	157
4270 2 8	TX 8	60	157
4270 2 9	TX 9	60	157
4270 2 10	TX 10	60	157

*without bored tip

Article No.	Article Description	QTY
4270 2 6	PRECISION-SCREWDRIVER TX 6	1 z
4270 2 7	PRECISION-SCREWDRIVER TX 7	1 z
4270 2 8	PRECISION-SCREWDRIVER TX 8	1 z
4270 2 9	PRECISION-SCREWDRIVER TX 9	1 z
4270 2 10	PRECISION-SCREWDRIVER TX10	1 z



Voltage Tester, Single Pole

- For slotted head screws
- Version DIN 57860 Part 6 and VDE 0680/6 for 150-250 V
- Blade width 3 mm
- Blade thickness 0.5 mm
- Blade length 60 mm

Article No.	Article Description	QTY
4264 3	VOLTAGE TESTER DIN 57860 3MM	1 ü



GS Voltage Tester

- Voltage tester in compliance with VDE 0680/6
- 150-250 V (glow tube not exchangeable)
- Blade width 3 mm

Article No.	Article Description	QTY
4264 31	VOLT.TESTER GS 3MM	1



Insulating Screw Joint-Screwdriver

Article No.	Article Description	VPE
4264 4	INS.SCREW JOINT.SCR.DR.M-CLIP	1 f



Insulating Screw Joint-Screwdriver

- With plastic-clip standard multi-coloured sorted

Article No.	Article Description	QTY
4264 5	SCREWDRIVER SET K-CLIP	1

- PK (60) insulating screw joint-screwdrivers sorted: 20 x blade length 40 mm red 20 x blade length 60 mm orange 20 x blade length 80 mm blue



Electrician-Screwdriver Slot

- With power form handle

Technical Data

Art.-No.	Blade-width mm	Blade-strength mm	Blade-length mm
4241 25 60	2.5	0.4	60
4241 25	2.5	0.4	75
4241 3	3.0	0.5	80
4241 4	4.0	0.8	100
4241 55	5.5	1.0	125



Article No.	Article Description	QTY
4241 25 60	EL.SCREWDR.MK-HANDLE 60MM 2.5	1 z
4241 25	ELECTR.SCREWDRIV.MK-HANDLE 2.5	1 z
4241 3	ELECTR.SCREWDRIV.MK-HANDLE 3	1 z
4241 4	ELECTR.SCREWDRIV.MK-HANDLE 4	1 z
4241 55	ELECTR.SCREWDRIV.MK-HANDLE 5.5	1 z

Electrician-Screwdriver slot LS long

- with power form handle
- Blade length: 300 mm



Article No.	Article Description	QTY
4242 4	SCREWDRIVER MK-HANDLE 300MM 4	1 i
4242 55	SCREWDRIVER MK-HANDLE 300MM 5.5	1 i

(Blade length / Size)

Electrician-Slotted Screwdriver PH, long

- With power form handle
- Blade length: 300 mm



Article No.	Article Description	QTY
4244 1	PH-SCREWDRIV.MK-HANDLE 300MM 1	1 i
4244 2	PH-SCREWDRIV.MK-HANDLE 300MM 2	1 i

(Blade length/ size)

Kraft-Screwdriver Set ECO

- 6-part
- Passing blade with reinforced blade and impact cap
- Hexagon blade
- With hexagon intake at the handle
- Extra tough with impact-resistant point
- Special non-skidding and multicomponent grip for highest torque values

Article No.	Article Description	QTY
4202N 91	KRAFT SCREWDRIVER SET 6-PART	1

Contents:

- Art. No. 4202N 35, 1x Kraft Screwdriver LS 0.7 x 3.5 mm
- Art. No. 4202N 45, 1x Kraft Screwdriver LS 0.8 x 4.5 mm
- Art. No. 4202N 55, 1x Kraft Screwdriver LS 1.0 x 5.5 mm
- Art. No. 4202N 7, 1x Kraft Screwdriver LS 1.2 x 7.0 mm
- Art. No. 4202N 1, 1x Kraft Screwdriver PH 1
- Art. No. 4202N 2, 1x Kraft Screwdriver PH 2



Kraft-Slotted Screwdriver LS ECO

Technical Data

Art. No.	Blade width mm	Blade strength mm	Blade length mm
4202N 35	3.5	0.7	80
4202N 45	4.5	0.8	90
4202N 55	5.5	1.0	100
4202N 7	7	1.2	125
4202N 8	8	1.2	175
4202N 10	10	1.6	175

Article No.	Article Description	QTY
4202N 35	KRAFT-SCREWDR.PASS.BLADE LS3.5	1
4202N 45	KRAFT-SCREWDR.PASS.BLADE LS4.5	1
4202N 55	KRAFT-SCREWDR.PASS.BLADE LS5.5	1
4202N 7	KRAFT-SCREWDR.PASS.BLADE LS 7	1
4202N 8	KRAFT-SCREWDR.PASS.BLADE LS 8	1
4202N 10	KRAFT-SCREWDR.PASS.BLADE LS10	1



Kraft-Phillips Screwdriver ECO

Technical Data

Art. No.	Models	Blade length mm
4202N 0	PH 0	60
4202N 1	PH 1	80
4202N 2	PH 2	100
4202N 3	PH 3	150

Article No.	Article Description	QTY
4202N 0	KRAFT-SCREWDR.PASS.BLADE PH 0	1
4202N 1	KRAFT-SCREWDR.PASS.BLADE PH 1	1
4202N 2	KRAFT-SCREWDR.PASS.BLADE PH 2	1
4202N 3	KRAFT-SCREWDR.PASS.BLADE PH 3	1



Kraft-Phillips Screwdriver ECO

Technical Data

Art. No.	Models	Blade length mm
4202N 11	PZ 1	80
4202N 21	PZ 2	100
4202N 31	PZ 3	150

Article No.	Article Description	QTY
4202N 1 1	KRAFT-SCREWDR.PASS.BLADE PZ 1	1
4202N 2 1	KRAFT-SCREWDR.PASS.BLADE PZ 2	1
4202N 3 1	KRAFT-SCREWDR.PASS.BLADE PZ 3	1



Standard Screwdriver Set

- 6-piece

Article No.	Article Description	QTY
4229 10	PH-SCREWDRIVER SET STAND.6-PCS	1
4229 11	PZ-SCREWDRIVER SET STAND.6PART	1

Art. No. 4229 10:

- 1x LS 3/4/5.5/6.5
- 1x PH 1/2

Art. No. 4229 11:

- 1x LS 3/4/5.5/6.5
- 1x PZ 1/2



Standard Screwdriver with Slot LS

Technical Data

Art. No.	Blade-width mm	Blade-strength mm	Blade-length mm
4223 25	2.5	0.4	75
4223 3	3.0	0.5	80
4223 4	4.0	0.8	100
4223 5	5.5	1.0	125
4223 6	6.5	1.2	150
4223 8	8.0	1.2	175
4223 10	10.0	1.6	200

Article No.	Article Description	QTY
4223 25	SCREWDRIVER STANDARD LS 2.5	1 z
4223 3	SCREWDRIVER STANDARD LS 3.0	1 z
4223 4	SCREWDRIVER STANDARD LS 4.0	1 z
4223 5	SCREWDRIVER STANDARD LS 5.5	1 z
4223 6	SCREWDRIVER STANDARD LS 6.5	1 z
4223 8	SCREWDRIVER STANDARD LS 8.0	1 ü
4223 10	SCREWDRIVER STANDARD LS 10.0	1 ü



Standard Screwdriver, PH

Technical Data

Art. No.	Design	Blade-length mm
4225 0	PH 0	60
4225 1	PH 1	80
4225 2	PH 2	100
4225 3	PH 3	150

Article No.	Article Description	QTY
4225 0	SCREWDRIVER STANDARD PH 0	1
4225 1	SCREWDRIVER STANDARD PH 1	1 z
4225 2	SCREWDRIVER STANDARD PH 2	1 z
4225 3	SCREWDRIVER STANDARD PH 3	1 ü



Standard Screwdriver, PZ

Technical Data

Art. No.	Design	Blade-length mm
4227 0	PZ 0	60
4227 1	PZ 1	80
4227 2	PZ 2	100
4227 3	PZ 3	150

Article No.	Article Description	QTY
4227 0	SCREWDRIVER STANDARD PZ 0	1 ü
4227 1	SCREWDRIVER STANDARD PZ 1	1 z
4227 2	SCREWDRIVER STANDARD PZ 2	1 z
4227 3	SCREWDRIVER STANDARD PZ 3	1 ü



Standard Screwdriver Slot LS, Short

Technical Data

Art. No.	Blade-width mm	Blade-strength mm	Blade-length mm
4224 55	5.5	1.0	25
4224 65	6.5	1.2	25

Article No.	Artikel-Bez	Article Description	ezeichnung	QTY
4224 55		SCREWDRIVER SHORT 5.5		1 ü
4224 65		SCREWDRIVER SHORT 6.5		1 ü



Standard Screwdriver PH / PZ, Short

Technical Data

Art. No.	Design	Blade-length mm
4226 1	PH 1	25
4226 2	PH 2	25
4228 1	PZ 1	25
4228 2	PZ 2	25

Article No.	Article Description	QTY
4226 1	PH-SCREWDRIVER SHORT 1	1 ü
4226 2	PH-SCREWDRIVER SHORT 2	1 ü
4228 1	PZ-SCREWDRIVER SHORT 1	1 ü
4228 2	PZ-SCREWDRIVER SHORT 2	1 ü



Screwdriver Wooden Handle, PH

- Hexagon intake
- Passing blade and leather cap



Technical Data

Art. No.	Design	Blade-length mm
4266 1	PH 1	80
4266 2	PH 2	100
4266 3	PH 3	175



Article No.	Article Description	QTY
4266 1	PH-SCREWDRIVER WOODEN HANDLE 1	1 z

Hexagon Screwdriver Set

- 6-part
- With Kraft handle

Article No.	Article Description	QTY
4259 3	A-HEX. SCREWDRIVER SET MC 6PA.	1

Contents each 1x:

- SW 5.5 / 6 / 7 / 8 / 10 / 13



Hexagon Screwdriver

Article No.	Article Description	QTY
4256 55	A-HEX. SCREWDRIVER MC SW 5.5	1 ü
4256 6	A-HEX. SCREWDRIVER MC SW 6	1 ü
4256 7	A-HEX. SCREWDRIVER MC SW 7	1 ü
4256 8	A-HEX. SCREWDRIVER MC SW 8	1 ü
4256 10	A-HEX. SCREWDRIVER MC SW 10	1 ü
4256 13	A-HEX. SCREWDRIVER MC SW 13	1 ü



Screwdriver

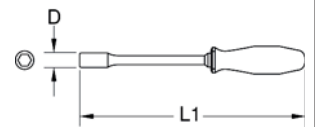
- 6-sided
- In compliance with DIN 7445
- Insulation as per DIN EN 60900
- Chrome vanadium



Article No.	Article Description	QTY
4257 1 3	A-HEX SCREW DRIV SW 3 1000V	1
4257 1 35	A-HEX SCREW DRIV SW 3,5 1000V	1
4257 1 4	A-HEX SCREW DRIV SW 4 1000V	1
4257 1 5	A-HEX SCREW DRIV SW 5 1000V	1
4257 1 55	A-HEX SCREW DRIV SW 5,5 1000V	1
4257 1 6	A-HEX SCREW DRIV SW 6 1000V	1
4257 1 7	A-HEX SCREW DRIV SW 7 1000V	1
4257 1 8	A-HEX SCREW DRIV SW 8 1000V	1
4257 1 9	A-HEX SCREW DRIV SW 9 1000V	1
4257 1 10	A-HEX SCREW DRIV SW 10 1000V	1
4257 1 11	A-HEX SCREW DRIV SW 11 1000V	1
4257 1 12	A-HEX SCREW DRIV SW 12 1000V	1
4257 1 13	A-HEX SCREW DRIV SW 13 1000V	1
4257 1 14	A-HEX SCREW DRIV SW 14 1000V	1
4257 1 17	A-HEX SCREW DRIV SW 17 1000V	1

Technical Data

Art.-No.	SW mm	D mm	L1 mm
4257 1 3	3,0	10,0	215,0
4257 1 35	3,5	10,0	215,0
4257 1 4	4,0	10,0	215,0
4257 1 5	5,0	11,5	215,0
4257 1 55	5,5	15,5	215,0
4257 1 6	6,0	12,5	215,0
4257 1 7	7,0	14,5	225,0
4257 1 8	8,0	15,5	225,0
4257 1 9	9,0	16,5	225,0
4257 1 10	10,0	17,0	225,0
4257 1 11	11,0	19,5	235,0
4257 1 12	12,0	20,5	235,0
4257 1 13	13,0	21,5	235,0
4257 1 14	14,0	23,5	235,0
4257 1 17	17,0	26,5	235,0



Hexagon Screwdriver Set with T-Handle

- 6-piece

Article No.	Article Description	QTY
4282 90	A-HEX.SCREWDRIVER SET T-HANDLE	1

Contents:

- 1x SW 6/8/10/11/12/13



Hexagon Screwdriver T-Handle

Article No.	Article Description	QTY
4282 6	A-HEX.SCREWDRI.T-HANDLE 6X200	1
4282 8	A-HEX.SCREWDR.T-HANDLE 8X230	1
4282 10	A-HEX.SCREWDR.T-HANDLE 10X230	1
4282 11	A-HEX.SCREWDR.T-HANDLE 11X230	1
4282 12	A-HEX.SCREWDR.T-HANDLE 12X230	1
4282 13	A-HEX.SCREWDR.T-HANDLE 13X230	1

(SW mm x blade length mm)



Hexagon Screwdriver T-Handle XL

- Blade length 350 mm

Article No.	Article Description	QTY
4282 8 350	A-HEX.SCREWDR.T-HANDLE 8X350	1
4282 10 350	A-HEX.SCREWDR.T-HANDLE 10X350	1
4282 13 350	A-HEX.SCREWDR.T-HANDLE 13X350	1

(SW mm x blade length mm)

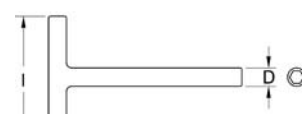


T-handle screwdriver, 2-way insulation

- 6-sided
- In compliance with DIN 7440
- Dipped insulation as per DIN EN 60900
- For mounting particularly long threaded bolts
- Made from precision steel tubing
- Chrome vanadium



Article No.	Article Description	QTY
4257 2 10	A-HEX. SCR.DRIV.T-HA. SW10	1
4257 2 11	A-HEX. SCR.DRIV.T-HA. SW11	1
4257 2 12	A-HEX. SCR.DRIV.T-HA. SW12	1
4257 2 13	A-HEX. SCR.DRIV.T-HA. SW13	1
4257 2 14	A-HEX. SCR.DRIV.T-HA. SW14	1
4257 2 16	A-HEX. SCR.DRIV.T-HA. SW16	1
4257 2 17	A-HEX. SCR.DRIV.T-HA. SW17	1
4257 2 18	A-HEX. SCR.DRIV.T-HA. SW18	1
4257 2 19	A-HEX. SCR.DRIV.T-HA. SW19	1
4257 2 20	A-HEX. SCR.DRIV.T-HA. SW20	1
4257 2 22	A-HEX. SCR.DRIV.T-HA. SW22	1
4257 2 24	A-HEX. SCR.DRIV.T-HA. SW24	1

Technical Data				
Art.-No.	SW mm	D mm	I mm	
4257 2 10	10	17,0	165,0	
4257 2 11	11	19,0	165,0	
4257 2 12	12	19,0	165,0	
4257 2 13	13	20,0	165,0	
4257 2 14	14	24,0	165,0	
4257 2 16	16	26,0	165,0	
4257 2 17	17	26,0	165,0	
4257 2 18	18	29,0	165,0	
4257 2 19	19	30,0	165,0	
4257 2 20	20	32,0	165,0	
4257 2 22	22	33,0	165,0	
4257 2 24	24	35,0	165,0	

Cross rim wrench, 2-way insulation

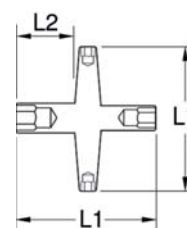
- 6-sided
- Dipped insulation as per DIN EN 60900
- No connection between the hexagonal steel inserts
- Made from shock-resistant plastic
- Chrome vanadium



Article No.	Article Description	QTY
4257 3 1	CROSS RIM 10X11X12X13	1
4257 3 2	CROSS RIM 10X11X14X17	1
4257 3 3	CROSS RIM 10X12X14X17	1
4257 3 4	CROSS RIM 10X13X14X17	1
4257 3 6	CROSS RIM 11X12X13X17	1
4257 3 7	CROSS RIM 11X13X14X17	1
4257 3 8	CROSS RIM 13X17X19X22	1
4257 3 9	CROSS RIM 14X17X19X22	1

Technical Data

Art.-No.	SW mm	L1 mm	L2 mm
4257 3 1	10x11x12x13	140,0	55,0
4257 3 2	10x11x13x17	140,0	55,0
4257 3 3	10x12x14x17	140,0	55,0
4257 3 4	10x13x14x17	140,0	55,0
4257 3 6	11x12x13x17	140,0	55,0
4257 3 7	11x13x14x17	140,0	55,0
4257 3 8	13x17x19x22	140,0	55,0
4257 3 9	14x17x19x22	140,0	55,0



Screwdriver hexagon, flexible **FÖRCH*******

- with flexible shaft
- blade length: 165 mm

Article No.	Article Description	QTY
3295 6 50	SCR.DRIVER HEX FLEX.W.AF6 5*	1 z
3295 7 50	SCR.DRI.6-EDGE FLEX.W.AF7 5*	1 z
3295 8 50	SCR.DRIVER HEX FLEX.W.AF8 5*	1 z



Hex Speed Wrench Flexible

- With flexible shaft
- Blade length 160 mm

Article No.	Article Description	QTY
3295 6	A HEX SPEED WRENCH FLEX SW 6	1
3295 7	A HEX SPEED WRENCH FLEX W. 7	1
3295 8	A HEX SPEED WRENCH FLEX SW 8	1



Screwdriver Set Flexible

- 16-part
- With flexible shaft
- Blade length 500 mm

Application:

- For screw workings that are difficult to access in engine compartment of cars, trucks, buses etc.

Article No.	Article Description	QTY
3295 16	SCREWDRIVER SET FLEXIBLE16PART	1

Contents:

- 1x Art. No. 3295 16 1 Screwdriver, flexible with bit intake for various bit inserts
- 1x Art. No. 3295 16 2 Screwdriver, flexible SW 7 mm for almost all hose clamps
- 1x Art. No. 3295 16 3 Screwdriver, flexible square intake 1/4" for hose clamps with other wrench sizes
- 1x AGR 4408 1/4" deep sockets on metal plug bar SW 5/6/8
- 1x Bit set 10-part consists of: AGR 4303: TX 10/15/20/25/27/30 AGR 4301: size 1/ 2 AGR 4300: size 5.5/6.5



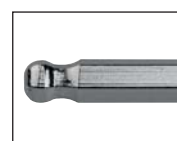
Flexible internal hex. screwdriver

- Ball-shaped head
- 4 mm, diameter, offset
- Blade length: 85 mm
- Total length: 340 mm

Application:

- Used for window installation

Article No.	Article Description	QTY
4255 4	HEX.SCREW.DR.FLEX.INTERNAL	1



Detail view

Screwdriver Square, 1/4"

- With square socket at handle

Article No.	Article Description	QTY
4403 14 1	1/4" TWIST HANDLE 150M	1



Screwdriver, square, 1/4" **ECO**

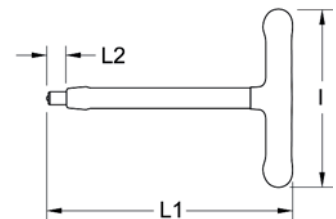
- with square socket at handle
- Matt chromium plated

Article No.	Article Description	QTY
4403N 14	1/4" SCREWDR. SQUARE 150MM ECO	1



Cross rim wrench, T-handle, 2-way insulation

- Square drive as per DIN 3120/ISO 1174 with ball stop
- With additional screw for clamping the ball, thus preventing the accidental release of the socket
- In compliance with DIN 7436
- Dipped insulation as per DIN EN 60900
- With screw stop
- Chrome vanadium



Article No.	Article Description	QTY
4446 38 1 1	3/8" T-HANDLE SO.SP.W.S.A	1
4446 12 1 1	1/2" T-HANDLE SO.SP.W.S.A	1

Technical Data

Drive	I	L1	L2
mm	mm	mm	mm
3/8"	165,0	200,0	15,0
1/2"	165,0	200,0	15,0

Hexagon Socket Screwdriver Set

- 5-part

Article No.	Article Description	QTY
4259 2	BALLPOINT SCREWDR.SET MC 5-PA.	1

Contents:

- 1 x SW 3/ 4/ 5/ 6/ 8



Hexagon Socket Screwdriver

- With Kraft handle and ballpoint

Technical Data		
Art.-No.	Spanner-size mm	Blade-length mm
4250 3	3	100
4250 4	4	100
4250 5	5	100
4250 6	6	125
4250 8	8	150

Article No.	Article Description	QTY
4250 3	BALLPOINT SCREWDRIVER MC 3	1 z
4250 4	BALLPOINT SCREWDRIVER MC 4	1 z
4250 5	BALLPOINT SCREWDRIVER MC 5	1 z
4250 6	BALLPOINT SCREWDRIVER MC 6	1 ü
4250 8	BALLPOINT SCREWDRIVER MC 8	1 ü



VDE Insulated Allen Key Screwdrivers

- Insulation according to DIN EN 60900 (VDE 0682-201):2013-04, EN 609000:2012
- Multi-component grip with roll-off protection



Technical Data

Art.-No.	Size mm	Blade- length mm
4267 25	2.5	80
4267 3	3.0	80
4267 4	4.0	80
4267 5	5.0	80
4267 6	6.0	100
4267 8	8.0	100



Article No.	Article Description	QTY
4267 25	VDE-ALLEN-SCREWDR.MULTI-C.2.5	1 ü
4267 3	VDE-ALLEN-SCREWDR.MULTI-COMP 3	1 ü
4267 4	VDE-ALLEN-SCREWDR.MULTI-COMP 4	1 ü
4267 5	VDE-ALLEN-SCREWDR.MULIT-COMP 5	1 ü
4267 6	VDE-ALLEN-SCREWDR.MULTI-COMP 6	1 ü
4267 8	VDE-ALLEN-SCREWDR.MULTI-COMP 8	1 ü

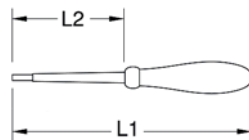
Hexagonal socket head screwdriver

- Hexagon socket
- In compliance with DIN 7439
- Insulation as per DIN EN 60900
- Bronzed
- Chrome vanadium



Technical Data

Art.-No.	mm	L1 mm	L2 mm
4262 1 15	1,5	135,0	57,0
4262 1 20	2,0	135,0	57,0
4262 1 25	2,5	165,0	78,0
4262 1 30	3,0	165,0	74,0
4262 1 40	4,0	165,0	76,0
4262 1 50	5,0	170,0	71,0
4262 1 60	6,0	205,0	108,0
4262 1 80	8,0	205,0	97,0



Article No.	Article Description	QTY
4262 1 1 5	I-HEX. SCREW DRIV. SW 1.5	1
4262 1 2	I-HEX. SCREW DRIV. SW 2	1
4262 1 2 5	I-HEX. SCREW DRIV. SW 2.5	1
4262 1 3	I-HEX. SCREW DRIV. SW 3	1
4262 1 4	I-HEX. SCREW DRIV. SW 4	1
4262 1 5	I-HEX. SCREW DRIV. SW 5	1
4262 1 6	I-HEX. SCREW DRIV. SW 6	1
4262 1 8	I-HEX. SCREW DRIV. SW 8	1

Hexagon Wrench Key Set T-Handle

- 9-piece
- In practical plastic case with transparent window, dimension LxWxH: 37.5 x 26.5 x 5.8 cm

Article No.	Article Description	QTY
4280 91	HEXAG.WR.KEY SET T-HANDLE (9P)	1



Hexagon Wrench Key T-Handle



Article No.	Article Description	QTY
4280 1 2	HEX.WRENCH KEY T-HANDLE SW 2	1
4280 1 25	HEX.WRENCH KEY T-HANDLE SW 2,5	1
4280 1 3	HEX.WRENCH KEY T-HANDLE SW 3	1
4280 1 4	HEX.WRENCH KEY T-HANDLE SW 4	1
4280 1 5	HEX.WRENCH KEY T-HANDLE SW 5	1
4280 1 6	HEX.WRENCH KEY T-HANDLE SW 6	1
4280 1 8	HEX.WRENCH KEY T-HANDLE SW 8	1
4280 1 10	HEX.WRENCH KEY T-HANDLE SW 10	1
4280 1 12	HEX.WRENCH KEY T-HANDLE SW 12	1

Technical Data

Art. No.	Key size mm	L1 mm	L2 mm
4280 1 2	2	15	100
4280 1 25	2.5	15	100
4280 1 3	3	15	100
4280 1 4	4	15	150
4280 1 5	5	15	150
4280 1 6	6	16	150
4280 1 8	8	16	200
4280 1 10	10	16	200
4280 1 12	12	16	200



Pin spanner, T-handle, 2-way insulation

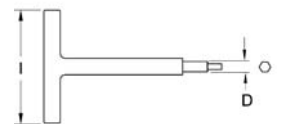
- 6-sided
- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Compact design
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4262 3 3 120	I-HEX.T-HA.SCR.DR. 3X120	1
4262 3 4 120	I-HEX.T-HA.SCR.DR. 4X120	1
4262 3 4 160	I-HEX.T-HA.SCR.DR. 4X160	1
4262 3 4 200	I-HEX.T-HA.SCR.DR. 4X200	1
4262 3 4 250	I-HEX.T-HA.SCR.DR. 4X250	1
4262 3 5 120	I-HEX.T-HA.SCR.DR. 5X120	1
4262 3 5 160	I-HEX.T-HA.SCR.DR. 5X160	1
4262 3 5 200	I-HEX.T-HA.SCR.DR. 5X200	1
4262 3 5 250	I-HEX.T-HA.SCR.DR. 5X250	1
4262 3 6 120	I-HEX.T-HA.SCR.DR. 6X120	1
4262 3 6 160	I-HEX.T-HA.SCR.DR. 6X160	1
4262 3 6 200	I-HEX.T-HA.SCR.DR. 6X200	1
4262 3 8 160	I-HEX.T-HA.SCR.DR. 8X160	1
4262 3 8 200	I-HEX.T-HA.SCR.DR. 8X200	1
4262 3 8 250	I-HEX.T-HA.SCR.DR. 8X250	1
4262 3 10 200	I-HEX.T-HA.SCR.DR. 10X200	1
4262 3 10 250	I-HEX.T-HA.SCR.DR. 10X250	1
4262 3 10 300	I-HEX.T-HA.SCR.DR. 10X300	1
4262 3 11 200	I-HEX.T-HA.SCR.DR. 10X200	1
4262 3 12 200	I-HEX.T-HA.SCR.DR. 12X200	1
4262 3 13 200	I-HEX.T-HA.SCR.DR. 13X200	1
4262 3 14 200	I-HEX.T-HA.SCR.DR. 14X200	1
4262 3 17 200	I-HEX.T-HA.SCR.DR. 17X200	1

Technical Data

Art.-No.	SW mm	I mm	D mm
4262 3 3120	3	65,0	5,0
4262 3 4120	4	65,0	10,0
4262 3 4160	4	104,0	15,0
4262 3 4200	4	64,0	10,0
4262 3 4250	4	94,0	13,0
4262 3 5120	5	65,0	11,0
4262 3 5160	5	105,0	15,0
4262 3 5200	5	65,0	10,0
4262 3 5250	5	105,0	15,0
4262 3 6120	6	90,0	11,0
4262 3 6160	6	105,0	15,0
4262 3 6200	6	65,0	11,0
4262 3 8160	8	105,0	15,0
4262 3 8200	8	160,0	13,0
4262 3 8250	8	100,0	17,0
4262 3 10200	10	160,0	15,0
4262 3 10250	10	160,0	15,0
4262 3 10300	10	160,0	15,0
4262 3 11200	11	160,0	15,0
4262 3 12200	12	160,0	16,0
4262 3 13200	13	160,0	16,0
4262 3 14200	14	160,0	17,0
4262 3 17200	17	160,0	20,0



TX-Screwdriver Sets

- 6-part

Art.-No. 4259V 1 and Art.-No. 4259V 10

- VAROsoft tool deposit Art.-No. 9026 62



Contentst Art.-No. 4259 1 and 4259V 1:

Art.-No.	Article Description	Quantity
4251 10	TX SCREWDRIVER MC-HANDLE TX 10	1
4251 15	TX SCREWDRIVER MC-HANDLE TX 15	1
4251 20	TX SCREWDRIVER MC-HANDLE TX 20	1
4251 25	TX SCREWDRIVER MC-HANDLE TX 25	1
4251 30	TX SCREWDRIVER MC-HANDLE TX 30	1
4251 40	TX SCREWDRIVER MC-HANDLE TX 40	1



Article No.	Article Description	QTY
4259 1	TX-SCREWDRIVER SET MC 6PART	1
4259V 1	VS-TX-SCREWDRIVER SET MC 6PART	1
4259 10	TX-DRILL. TH. SCREWDR. SET MC 6PA	1
4259V 10	VS-TX-HD.DR. SCREWDR. SET MC 6PA	1
4259 11	TX-BALLPOINT SCREWDR. SET 6PART	1

Contents Art.-No 4259 10 and Art.-No. 4259V 10:

- each 1x TX 10 / 15 / 20 / 25 / 30 / 40

TX-Screwdriver

Technical Data

Art. No.	Design	Blade length mm
4251 8	TX 8	63
4251 10	TX 10	80
4251 15	TX 15	80
4251 20	TX 20	100
4251 25	TX 25	100
4251 27	TX 27	115
4251 30	TX 30	115
4251 40	TX 40	130



Article No.	Article Description	QTY
4251 8	TX SCREWDRIVER MC-HANDLE TX 8	1 z
4251 10	TX SCREWDRIVER MC-HANDLE TX 10	1 z
4251 15	TX SCREWDRIVER MC-HANDLE TX 15	1 z
4251 20	TX SCREWDRIVER MC-HANDLE TX 20	1 z
4251 25	TX SCREWDRIVER MC-HANDLE TX 25	1 z
4251 27	TX SCREWDRIVER MK-HANDLE TX 27	1 z
4251 30	TX SCREWDRIVER MC-HANDLE TX 30	1 z
4251 40	TX SCREWDRIVER MC-HANDLE TX 40	1 z

TX-Screwdriver with bored tip

Technical Data

Art.-No.	Design	Blade length mm
4252 10	TX 10	80
4252 15	TX 15	80
4252 20	TX 20	100
4252 25	TX 25	100
4252 27	TX 27	115
4252 30	TX 30	115
4252 40	TX 40	130



Article No.	Article Description	QTY
4252 10	SCREWDRIVER W.HOLE DRILL.TX10	1 ü
4252 15	SCREWDRIVER W.HOLE DRILL.TX15	1 ü
4252 20	SCREWDRIVER W.HOLE DRILL.TX20	1 ü
4252 25	SCREWDRIVER W.HOLE DRILL.TX25	1 ü
4252 27	SCREWDRIVER W.HOLE DRILL.TX27	1 ü
4252 30	SCREWDRIVER W.HOLE DRILL. TX30	1 ü
4252 40	SCREWDRIVER W.HOLE DRILL. TX40	1 ü

TX-Screwdriver, Ballpoint

Technical Data

Art.-No.	Design	Blade length mm
4253 15	TX 15	80
4253 20	TX 20	100
4253 25	TX 25	100
4253 27	TX 27	115
4253 30	TX 30	115
4253 40	TX 40	130



Article No.	Article Description	QTY
4253 15	SCREWDRIVER BALLPOINT TX 15	1 ü
4253 20	SCREWDRIVER BALLPOINT TX20	1 ü
4253 25	SCREWDRIVER BALLPOINT TX 25	1 ü
4253 27	SCREWDRIVER BALLPOINT TX27	1 ü
4253 30	SCREWDRIVER BALLPOINT TX30	1 ü
4253 40	SCREWDRIVER BALLPOINT TX40	1 ü

Screwdriver set TX, 300 mm **FÖRCH*******

TX screwdriver with special strong hold (without magnet) as 4-pce set in sizes 20, 25, 27 and 30

- extra long blade (300 mm), in order to reach difficult or very low lying screw joints
- due to the special holding function, the risk of dropping the screw is minimised when putting it in or removing it
- therefore work can be carried out without problems e.g. when the screw cannot be held in place due to a lack of space
- the useful design length is very appropriate in e.g. removing radiator hoods, motor cowlings / hood better and more ergonomically in order to reach the screws
- ideal in preventing damage and scratches to paint, plastic etc., that often happens with shorter designs
- most popular TX sizes in the car industry in one set

applications:

- TX 20: Back lights Volvo V60 and V70, Mercedes-Benz type 168, 169 (A class, type 245 (B class) and type 203 (C class))
- TX 20/25/30: All engine compartment screw joints Audi A4 and A6, VW Passat. the long torx can also be used for removing the door lock in the front for all three types
- TX 27: engine compartment screw joints Peugeot and Citroen
- TX 30: mudguard screw joints BMW E46, especially for headlights Audi A4 and A6 from 2006
- trucks: for Actros headlights



Article No.	Article Description	QTY
4259 5	TX-SCREWDR.SET 300 MM 4-PCS 5*	1

Contents each 1x:• TX 20 / 25 / 27 / 30, 300 mm

Screwdriver TX, 300 mm **FÖRCH*******

Technical Data

Art.-No.	Size	Length
4251 5 20	TX 20	300 mm
4251 5 25	TX 25	300 mm
4251 5 27	TX 27	300 mm
4251 5 30	TX 30	300 mm



Article No.	Article Description	QTY
4251 5 20	SCREWDRIVER TX20 300MM 5*	1
4251 5 25	SCREWDRIVER TX25 300MM 5*	1
4251 5 27	SCREWDRIVER TX27 300MM 5*	1
4251 5 30	SCREWDRIVER TX30 300MM 5*	1

VDE Insulated Screwdrivers TX

- According to DIN EN 60900 (VDE 0682-201):2013 – 04; EN 609000:2012
- Allen key
- Multi-component grip with roll-off protection
- Zinc phosphated



Article No.	Article Description	QTY
4263 5	VDE-TX-SCREWDR.MULTI-COMP.5	1 ü
4263 6	VDE-TX-SCREWDR.MULTI-COMP.6	1 ü
4263 7	VDE-TX-SCREWDR.MULTI-COMP.7	1 ü
4263 8	VDE-TX-SCREWDR.MULTI-COMP.8	1 ü
4263 9	VDE-TX-SCREWDR.MULTI-COMP.9	1 ü
4263 10	VDE-TX-SCREWDR.MULTI-COMP.10	1 ü
4263 15	VDE-TX-SCREWDR.MULTI-COMP.15	1 ü
4263 20	VDE-TX-SCREWDR.MULTI-COMP.20	1 ü
4263 25	VDE-TX-SCREWDR.MULTI-COMP.25	1 ü
4263 30	VDE-TX-SCREWDR.MULTI-COMP.30	1 ü

Technical Data

Art.-No.	Version	Blade length mm
4263 5	TX 5	80
4263 6	TX 6	80
4263 7	TX 7	80
4263 8	TX 8	80
4263 9	TX 9	80
4263 10	TX 10	80
4263 15	TX 15	80
4263 20	TX 20	80
4263 25	TX 25	100
4263 30	TX 30	100

TX screwdriver

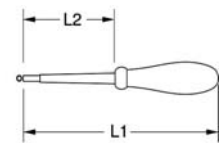
- TX
- Insulation as per DIN EN 60900
- Bronzed
- Special steel



Article No.	Article Description	QTY
4262 4 10	TX-SCREW DRIVER TX 10	1
4262 4 15	TX-SCREW DRIVER TX 15	1
4262 4 20	TX-SCREW DRIVER TX 20	1
4262 4 25	TX-SCREW DRIVER TX 25	1
4262 4 27	TX-SCREW DRIVER TX 27	1
4262 4 30	TX-SCREW DRIVER TX 30	1

Technical Data

	L1 mm	L2 mm
T10	170,0	80,0
T15	170,0	80,0
T20	190,0	100,0
T25	190,0	100,0
T27	205,0	115,0
T30	205,0	115,0



TX screwdriver set with holding function **FÖRCH**★★★★★

- Optimal hold thanks to special holding function
- Makes it more difficult for the screw to fall off
- Direct, hands-free attachment of the screw
- Multi-component handle for optimal grip

Art.-No. 4259V 5 1:

- In VAROsoft system: Art.-No. 9026 62

Article No.	Article Description	QTY
4259 5 1	TX-SCR.DR. SET.H.F.6-PCE 5*	1
4259V 5 1	VA.TX-SCR.DR. SET.H.F.6-PCE.5*	1

Contents each 1x:

- TX 10/15/20/25/27/30



TX Screwdriver with holding function **FÖRCH**★★★★★

Technical Data

Art.-No.	Size	Blade length
4251 5 1 8	TX 8	63 mm
4251 5 1 10	TX 10	80 mm
4251 5 1 15	TX 15	80 mm
4251 5 1 20	TX 20	100 mm
4251 5 1 25	TX 25	100 mm
4251 5 1 27	TX 27	115 mm
4251 5 1 30	TX 30	115 mm
4251 5 1 40	TX 40	130 mm

Article No.	Article Description	QTY
4251 5 1 8	SCREWDRIVER W.H.F. TX 8 5*	1
4251 5 1 10	SCREWDRIVER W.H.F. TX 10 5*	1
4251 5 1 15	SCREWDRIVER W.H.F. TX 15 5*	1
4251 5 1 20	SCREWDRIVER W.H.F. TX 20 5*	1
4251 5 1 25	SCREWDRIVER W.H.F. TX 25 5*	1
4251 5 1 27	SCREWDRIVER W.H.F. TX 27 5*	1
4251 5 1 30	SCREWDRIVER W.H.F. TX 30 5*	1
4251 5 1 40	SCREWDRIVER W.H.F. TX 40 5*	1



T-handle screwdriver TX, 350 mm **FÖRCH*******

Technical Data

Art.-No.	size	length
4281 5 20	TX 20	350 mm
4281 5 25	TX 25	350 mm
4281 5 27	TX 27	350 mm
4281 5 30	TX 30	350 mm
4281 5 40	TX 40	350 mm



Article No.	Article Description	QTY
4281 5 20	T-HA. SCR.DRIV. 350MM TX20 5*	1
4281 5 25	T-HA. SCR.DRIV. 350MM TX25 5*	1
4281 5 27	T-HA. SCR.DRIV. 350MM TX27 5*	1
4281 5 30	T-HA. SCR.DRIV. 350MM TX30 5*	1
4281 5 40	T-HA. SCR.DRIV. 350MM TX40 5*	1

TX Wrench Key Set T-Handle

- 9-part
- In practical plastic case with transparent window, dimension LxWxH: 37.5 x 26.5 x 5.8 cm

Article No.	Article Description	QTY
4281 91	TX T-HANDLE WRENCH KEY SET(9P)	1

Contents:

- 1x TX 10/15/20/25/27/30/40/45/50



TX Wrench Key T-Handle

Article No.	Article Description	QTY
4281 1 10	TX 10 T-HANDLE WRENCH KEY	1
4281 1 15	TX 15 T-HANDLE WRENCH KEY	1
4281 1 20	TX 20 T-HANDLE WRENCH KEY	1
4281 1 25	TX 25 T-HANDLE WRENCH KEY	1
4281 1 27	TX 27 T-HANDLE WRENCH KEY	1
4281 1 30	TX 30 T-HANDLE WRENCH KEY	1
4281 1 40	TX 40 T-HANDLE WRENCH KEY	1
4281 1 45	TX 45 T-HANDLE WRENCH KEY	1
4281 1 50	TX 50 T-HANDLE WRENCH KEY	1

Technical Data

Art. No.	Size	L1	L2
4281 1 10	TX 10	13	102
4281 1 15	TX 15	13	102
4281 1 20	TX 20	13	102
4281 1 25	TX 25	15	152
4281 1 27	TX 27	18	149
4281 1 30	TX 30	16	149
4281 1 40	TX 40	18	200
4281 1 45	TX 45	16	200
4281 1 50	TX 50	22	200



Allen key set Hex-Plus **FÖRCH**★★★★



- 10-pieces
- Colour: multicoloured
- two-component clip
- black zinc-phosphate finish (higher corrosion protection and longer life), plastic sheathing
- with plastic coating
- with ball head on the long arm
- Hex-Plus Allen key WAF 7 **without** plastic coating

Life of bolts multiplied many times over:

- allows bolts to be screwed in and out time and again (e.g.: when changing moulds, cutter blades, segments, mechanical fixtures)
- approx. 20 % more torque on the screw without slipping

Your Advantage / Benefit

- colour coding and size labelling allow you to quickly find the right key
- with plastic sheathing; secure grip and comfortable working even at low temperatures
- key fits securely in the clip
- easy to remove
- higher corrosion protection due to special zinc phosphate finish resulting in longer life

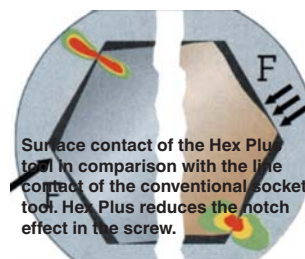
Application



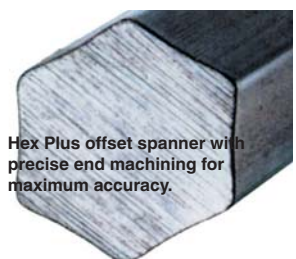
Article No.	Article Description	QTY
4159 10	ALLEN KEY SET HEX-PL.10PCS 5*	1

Contents:

HEX Plus 1,5/2/2,5/3/4/5/6/7/8/10



Surface contact of the Hex Plus tool in comparison with the line contact of the conventional socket tool. Hex Plus reduces the notch effect in the screw.



Hex Plus offset spanner with precise end machining for maximum accuracy.

Related Products

- Duo-Grip fine-knit gloves
Art. No. 5405 117 7 - 11



- Rust Solvent Black Magic S411
Art. No. 6700 0048



- Turbo force screw fix S415
Art. No. 6700 0075

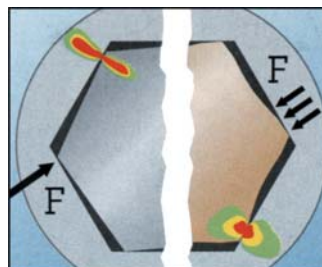


Hex-Plus Allen Key Set

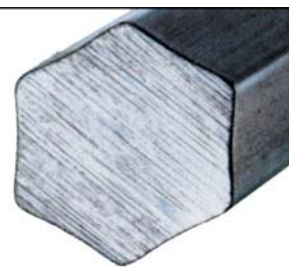
- Clip 9-part

Extends the service life of the screws:

- Enables many screwing in and offs of screws (e.g. form change, knife heads, mechanical devices)
- No 'round turning' of hexagonal drive on screw head and tool
- No time-consuming repairs due to non-removable screws
- Approx. 20 % higher torque on screw and with anti-roll protection



Surface contact of the Hex Plus tool in comparison with the line contact of the conventional socket tool. Hex Plus reduces the notch effect in the screw



Hex Plus offset spanner with precise end machining for maximum accuracy.

Article No.	Article Description	QTY
4159 25	HEX-PLUS ALLEN KEY SET 9-PART	1

Contents:

- 1x SW 1.5/2/2.5/3/4/5/6/8/10

Hex-Plus Allen Key XL

- Clips 9-part



Article No.	Article Description	QTY
4159 30	HEX-PLUS ALLEN KEY SET LG 9-PA	1
4159 20	HEX-PLUS BP ALLEN KEY SET 9-PA	1 z

Art. No. 4159 30:

- 1x SW 1,5/2/2,5/3/4/5/6/8/10

Art. No. 4159 20 je 1x:

- With ballpoint (BP) SW 1,5/2/2,5/3/4/5/6/8/10

Hex-Plus Allen Wrench

- Chrome vanadium, polished and rust-protected
- Hex key according to DIN 911
- Chrome vanadium, nickel-plated

Art. No. 4156 15:

- Common hex profile



Article No.	Article Description	QTY
4156 1 27	ALLEN WRENCH 1.27	1
4156 15	ALLEN WRENCH 1,5	1 z
4156 2	HEX-PLUS ALLEN WRENCH 2	1 z
4156 25	HEX-PLUS ALLEN WRENCH 2,5	1 z
4156 3	HEX-PLUS ALLEN WRENCH 3	1 z
4156 4	HEX-PLUS ALLEN WRENCH 4	1 z
4156 5	HEX-PLUS ALLEN WRENCH 5	1 z
4156 6	HEX-PLUS ALLEN WRENCH 6	1 z
4156 7	HEX-PLUS ALLEN WRENCH 7	1 z
4156 8	HEX-PLUS ALLEN WRENCH 8	1 z
4156 10	HEX-PLUS ALLEN WRENCH 10	1 z
4156 12	HEX-PLUS ALLEN WRENCH 12	1

Technical Data

Art. -No.	SW mm	DIN 911 blade mm
4156 1 27	1,27	40 x 12
4156 15	1,5	45 x 14
4156 2	2,0	50 x 16
4156 25	2,5	56 x 18
4156 3	3,0	63 x 20
4156 4	4,0	70 x 25
4156 5	5,0	80 x 28
4156 6	6,0	90 x 32
4156 7	7,0	95 x 34
4156 8	8,0	100 x 36
4156 10	10,0	112 x 40
4156 12	12,0	125 x 45

Hex-Plus Allen Wrench DIN 911 - XL

- Chrome vanadium, polished and rust-protected
- Hex wrench key, long DIN 911/XL
- Chrome vanadium, nickel-plated

Art. No. 4157 15, 4157 14, 4157 17 and 4157 19:

- Common hex profile



Article No.	Article Description	QTY
4157 14	HEX-PLUS ALLEN WRENCH LONG 14	1
4157 17	HEX-PLUS ALLEN WRENCH LONG 17	1
4157 19	HEX-PLUS ALLEN WRENCH LONG 19	1

Technical Data

Art. No.	SW mm	DIN 911/XL blade mm
4157 14	14	280 x 55
4157 17	17	320 x 60
4157 19	19	360 x 70

Hex-Plus Ballp.Hex.Socket Spanner XL **FÖRCH*******

- Chrome-vanadium, polished and protected against rust
- Ballpoint allen wrench XL for hexagon socket screws which are difficult of access at an angle of approx. 30°
- Art. No. 4158 15: common hexagon profile, chrome-vanadium nickel-plated



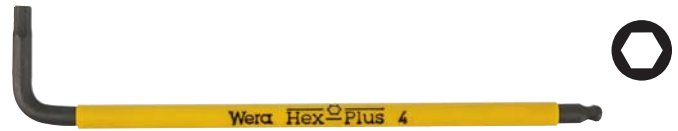
Article No.	Article Description	QTY
4158 15	BALLPOINT ALLEN WRENCH 1,5 5*	1 z
4158 2	HEX-PLUS BALL H.ALLEN WR. 2 5*	1 z
4158 25	HEX-PLUS BALL H.ALL. WR 2,5 5*	1 z
4158 3	HEX-PLUS BALL H.ALLEN WR. 3 5*	1 z
4158 4	HEX-PLUS BALL H.ALLEN WR. 4 5*	1 z
4158 5	HEX-PLUS BALL H.ALLEN WR. 5 5*	1 z
4158 6	HEX-PLUS BALL H.ALLEN WR. 6 5*	1 z
4158 7	HEX-PLUS BALL H.ALLEN WR. 7 5*	1 z
4158 8	HEX-PLUS BALL H.ALLEN WR. 8 5*	1 z
4158 10	HEX-PLUS BALL H.ALLEN WR 10 5*	1 z
4158 12	HEX-PLUS BALL H.ALLEN WR. 12 5*	1 ü

Technical Data

Art. No.	SW mm	Ballpoint XL blade mm
4158 15	1.5	90 x 14
4158 2	2,0	100 x 16
4158 25	2.5	112 x 18
4158 3	3,0	126 x 20
4158 4	4,0	140 x 25
4158 5	5,0	160 x 28
4158 6	6,0	180 x 32
4158 7	7,0	190 x 34
4158 8	8,0	200 x 36
4158 10	10,0	224 x 40
4158 12	12,0	250 x 45

Hex Plus Allen Key **FÖRCH** *****

- Black with zinc phosphate coating (better corrosion protection and longer service life)
- With plastic sheath
- With a ball-shaped head and a long handle
- Hex-Plus SW 7 Allen key without plastic sheath



Article No.	Article Description	QTY
4154 15	HEX PLUS ALLEN KEY 1.5 5*	1 z
4154 20	HEX PLUS ALLEN KEY 2.0 5*	1 z
4154 25	HEX PLUS ALLEN KEY 2.5 5*	1 z
4154 30	HEX PLUS ALLEN KEY 3.0 5*	1 z
4154 40	HEX PLUS ALLEN KEY 4.0 5*	1 z
4154 50	HEX PLUS ALLEN KEY 5.0 5*	1 z
4154 60	HEX PLUS ALLEN KEY 6.0 5*	1 z
4154 70	HEX PLUS ALLEN KEY 7.0 5*	1 z
4154 80	HEX PLUS ALLEN KEY 8.0 5*	1 z
4154 100	HEX PLUS ALLEN KEY 10.0 5*	1 z

Technical Data

Art.-No.	SW mm	DIN 911 handle mm	Color of plastic sheath
4154 15	1,5	90 x 14	white
4154 20	2,0	101 x 16	green
4154 25	2,5	112 x 19	yellow green
4154 30	3,0	123 x 21	zinc yellow
4154 40	4,0	137 x 24	yellow
4154 50	5,0	154 x 27	orange
4154 60	6,0	172 x 31	red
4154 70	7,0	190 x 34	-
4154 80	8,0	195 x 37	purple
4154 100	10,0	224 x 42	blue

Angle pin spanner, 2-way insulation

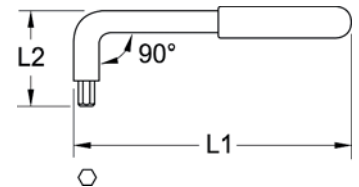
- Hexagon socket
- In compliance with DIN 7439
- Dipped insulation as per DIN EN 60900
- Specially for cable branch clamping rings
- Matt chrome finish
- Chrome vanadium



Article No.	Article Description	QTY
4262 2 3	ANGLED SCREW DRIV. SW 3	1
4262 2 4	ANGLED SCREW DRIV. SW 4	1
4262 2 5	ANGLED SCREW DRIV. SW 5	1
4262 2 6	ANGLED SCREW DRIV. SW 6	1
4262 2 8	ANGLED SCREW DRIV. SW 8	1
4262 2 10	ANGLED SCREW DRIV. SW 10	1
4262 2 12	ANGLED SCREW DRIV. SW 12	1

Technical Data

Ø mm	L1 mm	L2 mm
3	130,0	24,0
4	120,0	40,0
5	140,0	47,0
6	140,0	50,0
8	150,0	50,0
10	235,0	51,0
12	265,0	60,0



TX L-key set with ball head FÖRCH*****

- 9-pieces
- Colour: multicoloured
- two-component clip with magnetizer / demagnetizer
- black zinc-phosphate finish (higher corrosion protection and longer life)
- TX L-Keys with head hole on the short arm (TX 8/9 without head hole)
- with plastic sheathing
- TX 8/9/10 without ball head



Your Advantage / Benefit

- colour coding and size labelling allow you to quickly find the right key
- with plastic sheathing; secure grip and comfortable working even at low temperatures
- key fits securely in the clip
- easy to remove
- higher corrosion protection due to special zinc phosphate finish resulting in longer life

Application



Article No.	Article Description	QTY
4149 9	KK-TX-WINK.SCH.DR.M.KP.9TLG.5*	1

Contents:

- Art.-No. 4144 8: TX-Offset Screwdriver 8 FÖRCH 5*
- Art.-No. 4144 9: TX-Offset Screwdriver 9 FÖRCH 5*
- Art.-No. 4144 10: TX-Offset Screwdriver with ball-shaped head 10 FÖRCH 5*
- Art.-No. 4144 15: TX-Offset Screwdriver with ball-shaped head 15 FÖRCH 5*
- Art.-No. 4144 20: TX-Offset Screwdriver with ball-shaped head 20 FÖRCH 5*
- Art.-No. 4144 25: TX-Offset Screwdriver with ball-shaped head 25 FÖRCH 5*
- Art.-No. 4144 27: TX-Offset Screwdriver with ball-shaped head 27 FÖRCH 5*
- Art.-No. 4144 30: TX-Offset Screwdriver with ball-shaped head 30 FÖRCH 5*
- Art.-No. 4144 40: TX-Offset Screwdriver with ball-shaped head 40 FÖRCH 5*

Related Products

- **Fine Knitted Gloves Duo Grip**
Art.-No. 5405 117 7 - 11



- **Rust Solvent Black Magic**
Art.-No. 6700 0048



- **Rapid Cleaner R501**
Art.-No. 6110 0950



TX-Allen Wrench

- Chrome-vanadium, black burnished



Article No.	Article Description		QTY
4145 6	TX ALLEN WRENCH	TX 6	1 z
4145 7	TX ALLEN WRENCH	TX 7	1 z
4145 8	TX ALLEN WRENCH	TX 8	1 z
4145 9	TX ALLEN WRENCH	TX 9	1 z
4145 10	TX ALLEN WRENCH	TX 10	1 z
4145 15	TX ALLEN WRENCH	TX 15	1 z
4145 20	TX ALLEN WRENCH	TX 20	1 z
4145 25	TX ALLEN WRENCH	TX 25	1 z
4145 27	TX ALLEN WRENCH	TX 27	1 z
4145 30	TX ALLEN WRENCH	TX 30	1 z
4145 40	TX ALLEN WRENCH	TX 40	1
4145 45	TX ALLEN WRENCH	TX 45	1 z
4145 50	TX ALLEN WRENCH	TX 50	1 z
4145 55	TX ALLEN WRENCH	TX 55	1 z

Technical Data

Art. No.	Design	Blade mm
4145 6	TX 6	42 x 16
4145 7	TX 7	48 x 16
4145 8	TX 8	48 x 16
4145 9	TX 9	51 x 17
4145 10	TX 10	51 x 18
4145 15	TX 15	54 x 18
4145 20	TX 20	57 x 19
4145 25	TX 25	60 x 20
4145 27	TX 27	64 x 21
4145 30	TX 30	70 x 24
4145 40	TX 40	76 x 26
4145 45	TX 45	83 x 29
4145 50	TX 50	95 x 32
4145 55	TX 55	108 x 35

TX-Allen Wrench, Ballpoint

- Chrome-vanadium, black burnished
- TX 8,9,10 without ballpoint



Article No.	Article Description		QTY
4146 8	BALLPOINT TX-ALLEN WREN.	TX 8	1 ü
4146 9	BALLPOINT TX-ALLEN WREN.	TX 9	1 ü
4146 10	BALLPOINT TX-ALLEN WREN.	TX 10	1 ü
4146 15	BALLPOINT TX-ALLEN WREN.	TX 15	1 ü
4146 20	BALLPOINT TX-ALLEN WREN.	TX 20	1 ü
4146 25	BALLPOINT TX-ALLEN WREN.	TX25	1 ü
4146 27	BALLPOINT TX-ALLEN WREN.	TX 27	1 ü
4146 30	BALLPOINT TX-ALLEN WREN.	TX 30	1 ü
4146 40	BALLPOINT TX-ALLEN WREN.	TX 40	1 ü
4146 45	BALLPOINT TX-ALLEN WREN.	TX 45	1 ü

Technical Data

Art. No.	Design	Blade mm
4146 8	TX 8	76 x 16
4146 9	TX 9	79 x 16
4146 10	TX 10	85 x 17
4146 15	TX 15	90 x 18
4146 20	TX 20	95 x 19
4146 25	TX 25	100 x 20
4146 27	TX 27	105 x 21
4146 30	TX 30	114 x 24
4146 40	TX 40	124 x 26
4146 45	TX 45	133 x 29

TX Offset Screwdriver w. ball-shaped head **FÖRCH*******

- Black with zinc phosphate coating (better corrosion protection and longer service life)
- TX offset key with head hole on a short handle (TX 8 / 9 without a head hole)
- TX 8 / 9 / 10 without ball head
- With plastic sheath



Article No.	Article Description		QTY
4144 8	TX OFFS.SCR.DR.W.B.SH.H. 8	5*	1 z
4144 9	TX OFFS.SCR.DR.W.B.SH.H. 9	5*	1 z
4144 10	TX OFFS.SCR.DR.W.B.SH.H. 10	5*	1 z
4144 15	TX OFFS.SCR.DR.W.B.SH.H. 15	5*	1 z
4144 20	TX OFFS.SCR.DR.W.B.SH.H. 20	5*	1 z
4144 25	TX OFFS.SCR.DR.W.B.SH.H. 25	5*	1 z
4144 27	TX OFFS.SCR.DR.W.B.SH.H. 27	5*	1 z
4144 30	TX OFFS.SCR.DR.W.B.SH.H. 30	5*	1 z
4144 40	TX OFFS.SCR.DR.W.B.SH.H. 40	5*	1 z

Technical Data

Art.-No.	Version	Handle mm	Colour of plastic sheath
4144 8	TX 8	76 x 16	white
4144 9	TX 9	79 x 16	green
4144 10	TX 10	85 x 17	yellow green
4144 15	TX 15	90 x 18	zinc yellow
4144 20	TX 20	96 x 19	purple
4144 25	TX 25	104 x 21	yellow
4144 27	TX 27	112 x 22	blue
4144 30	TX 30	122 x 24	orange
4144 40	TX 40	132 x 27	red

TX-Allen Wrench Set

Article No.	Article Description	QTY
4149 1	TX-ALLEN WRENCH SET BOX 8-PART	1
4149 3	TX-ALLEN WRENCH FOLD.HOLD.8PA.	1

- Art. No. 4149 1:
- 1x TX 9/10/15/20/25/27/30/40
- Art. No. 4149 3:
- 1x TX 9/10/15/20/25/27/30/40



Ballpoint Set - TX

Article No.	Article Description	QTY
4149 5	BALLPOINT-TX-ALLEN WR.CLIP 9P.	1 z

- Contents:
- 1x TX 9/10/15/20/25/27/30/40

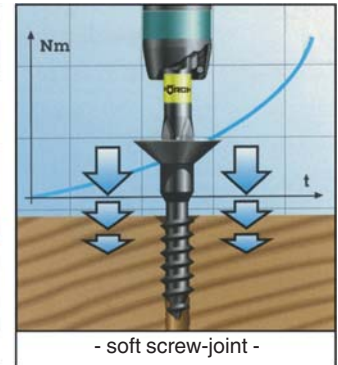
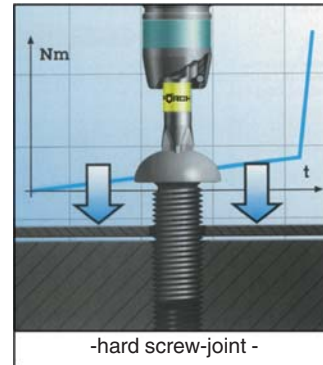


Das FÖRCH Bit-colour coding system



Bit FÖRCH *****

- Bit with „shock-absorber“
- The torsion zone (extended bar) absorbs the power tops while tightening resp. loosening and thus prevents early wastage.
- The considerably higher lifetime as well as the lessened risk of breakage make the Torsion-Bit the top product for the professional user.
- The robust bit is ideally suitable for hard screw cases of metal. Abrupt rise of the torque is reduced by the torsion Zone.
- The extra hard bit is ideally suitable for the screw connection of wood and chipboard. In these „soft screw cases“ the torque continuously rises. An early wastage is prevented due to the high hardness of the bit.
- Robust version for „hard material“



Phillips bit PH 1/4" FÖRCH *****

- Tough design for hard screw-joints

Article No.	Article Description	QTY
4311 5 1	1/4"PH-BIT 25MM SZ.1 YELLOW 5*	e 10
4311 5 2	1/4"PH-BIT 25MM SZ.2 WHITE 5*	e 10
4311 5 3	1/4"PH-BIT 25MM SZ.3 RED 5*	e 10

(Record / length mm/ size mm)



Phillips bit PZ 1/4" FÖRCH *****

- Tough design for hard screw-joints

Article No.	Article Description	QTY
4312 5 1	1/4"PZ-BIT 25MM SZ.1 BLUE 5*	e 10
4312 5 2	1/4"PZ-BIT 25MM SZ.2 BLACK 5*	e 10
4312 5 3	1/4"PZ-BIT 25MM SZ.3 GREEN 5*	e 10

(Record / length mm/ size mm)



TX bit 1/4" FÖRCH *****

- Tough design for hard screw-joints

Article No.	Article Description	QTY
4314 5 10	1/4"BIT 25MM TX10 BLUE 5*	e 10
4314 5 15	1/4"BIT 25MM TX15 YELLOW 5*	e 10
4314 5 20	1/4"BIT 25MM TX20 WHITE 5*	e 10
4314 5 25	1/4"BIT 25MM TX25 BLACK 5*	e 10
4314 5 27	1/4"BIT 25MM TX27 ICEBLUE 5*	e 10
4314 5 30	1/4"BIT 25MM TX30 RED 5*	e 10
4314 5 40	1/4"BIT 25MM TX40 GREY 5*	e 10

(Record / length mm/ size mm)



Bit TX 1/4" Magnet 50 mm long

- Maintains strong grip both horizontally and vertically
- Magnetic attachment at the front portion of the bit

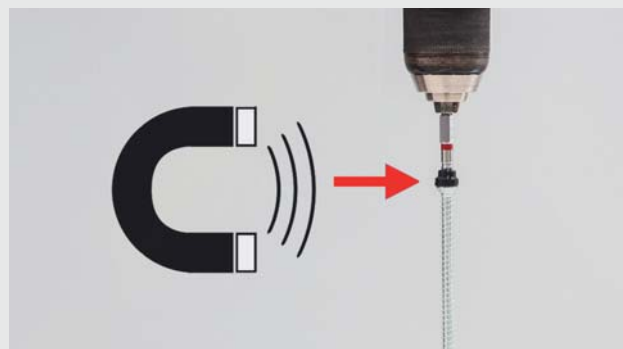


Article No.	Article Description	QTY
4337 10 50	1/4"MAGN.BIT TX10 BLUE 50MM	5
4337 15 50	1/4"MAGN.BIT TX15 YELLOW 50MM	5
4337 20 50	1/4"MAGN.BIT TX20 WHITE 50MM	5
4337 25 50	1/4"MAGN.BIT TX25 BLACK 50MM	5
4337 30 50	1/4"MAGN.BIT TX30 RED 50MM	5
4337 40 50	1/4"MAGN.BIT TX40 GREY 50MM	5

Your Advantage / Benefit

- Long screws remain securely held even in a horizontal position
- Screws will not fall out or down even in hard-to-reach places
- Extremely strong hold

Application



Bit TX 1/4" Magnet 50 mm long

- Maintains strong grip both horizontally and vertically
- Magnetic attachment at the front portion of the bit

Article No.	Article Description	QTY
4337 6	1/4"MAGNET BIT 6-PCE SET	1

Contents Art.-No. 4337 6:

- each 1x TX10 / 15 / 20 / 25 / 30 / 40



Bit-Safe with Holder and Ratchet 1/4" **FÖRCH*******

- 31-piece bit set with filigree, very small and robust Bit-Ratchet
- Solves problems when standard tools can not be applied due to space reasons
- Enables easy workings in tight spaces
- Small returning angle of 6° for precise working
- Low working height
- Due to adaption a use of 1/4" nuts is possible
- Die-forged solid steel design
- High load of more than 65 Nm

Article No.	Article Description	QTY
4319 9	1/4"BI-SAFE+HOLD.RAT.31PCS.5*	1
4319 11	1/4"BIT-SAFE+HOL+RATCH.38P. 5*	1

Contents Art.-No. 4319 9:

- 1x Art.-No. 4355 22: Universal quick-change holder with magnet 1/4" – E 6.3
- 1x Art.-No. 4401 14 8585: Bit ratchet 1/4"
- 1x Bit adapter 1/4"
- 2x PH 1 / 3x PH 2 / 1x PH 3
- 1x PZ 1 / 3x PZ 2 / 1x PZ 3
- each 1x TX10/15/20/25/30/40
- each 1x TX10/15/20/25/30 with hole drilling
- each 1x Allen key 3/4/5/6/8
- 1x LS 1,0x5,5

Contents Art.-No. 4319 11:

- 1x Art.-No. 4355 2: Universal quick-change holder 1/4" – E 6.3
- 1x Art.-No. 4401 14 85: Bit ratchet 1/4"
- 1x Bit adapter 1/4"
- 2x PH 1 / 3x PH 2 / 1x PH 3
- 1x PZ 1 / 3x PZ 2 / 1x PZ 3
- each 1x TX10/15/20/25/27/40
- each 1x TX10/15/20/25/30 with hole drilling
- each 1x Allen key 3/4/5/6/8
- 1x LS 1,0x5,5
- each 1x 1/4" wrench socket FÖRCH 5*, 23 mm SW 5.5/6/7/8/10/12/13



4319 9



4319 11

Bit assortment PH/PZ/TX **FÖRCH******* **VAROiBOXX**

- Assortment in high quality VAROiBOXX
- Professional quality bits with colour-coding system
- Toughened bits for hard screw-joints
- **Contents: 300 bits**

Contents:

Art.-No.	Article Description	Quantity
4311 5 1	1/4"PH-BIT 25MM SZ.1 YELLOW 5*	10
4311 5 2	1/4"PH-BIT 25MM SZ.2 WHITE 5*	10
4311 5 3	1/4"PH-BIT 25MM SZ.3 RED 5*	10
4312 5 1	1/4"PZ-BIT 25MM SZ.1 BLUE 5*	20
4312 5 2	1/4"PZ-BIT 25MM SZ.2 BLACK 5*	30
4312 5 3	1/4"PZ-BIT 25MM SZ.3 GREEN 5*	10
4314 5 10	1/4"BIT 25MM TX10 BLUE 5*	20
4314 5 15	1/4"BIT 25MM TX15 YELLOW 5*	20
4314 5 20	1/4"BIT 25MM TX20 WHITE 5*	40
4314 5 25	1/4"BIT 25MM TX25 BLACK 5*	50
4314 5 30	1/4"BIT 25MM TX30 RED 5*	50
4314 5 40	1/4"BIT 25MM TX40 GREY 5*	30
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	1
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	2
9008 1	VAROIBOXX LEER	1
9008 75 260	INSETB.GRAU 7,5X26CM VAROIBOXX	3
9008 75 260 1	TRENNWAND INSETB.GR. VAROIBOXX	6

Article No.	Article Description	QTY
9007 4314	VAROIBOXX 1/4"BITS TX/PZ/PH 5*	1



52 pce Bit Organiser **FÖRCH*******

- 52-bit assortment in convenient bit organiser

TX and PH/PZ bits

- Toughened models for hard screw-joints
- Significantly longer lifespan as well as reduced danger of breakage

Hexagon socket bits

- Especially designed (Hex Plus) to enable greater power transmission
- Due to the surface contact, the concentration of stress in the screw head is significantly reduced

Article No.	Article Description	QTY
4319 52	1/4"BIT-MAGAZIN-SET 52 BITS 5*	1

Contents:

- Article no. 4305 3: 3x 1/4", Hex hexagon socket bit, 25 mm 3
- Article no. 4305 4: 3x 1/4", Hex hexagon socket bit, 25 mm 4
- Article no. 4305 5: 3x 1/4", Hex hexagon socket bit, 25 mm 5
- Article no. 4305 6: 3x 1/4", Hex hexagon socket bit, 25 mm 6
- Article no. 4311 5 1: 5x 1/4", PH bits 25 mm size 1, yellow FÖRCH 5*
- Article no. 4311 5 2: 5x 1/4", PH bits 25 mm size 2, white FÖRCH 5*
- Article no. 4312 5 1: 5x 1/4", PZ bits 25 mm size 1, blue FÖRCH 5*
- Article no. 4312 5 2: 5x 1/4", PZ bits 25 mm size 2, black FÖRCH 5*
- Article no. 4314 5 15: 5x 1/4", bits 25 mm TX15, yellow FÖRCH 5*
- Article no. 4314 5 20: 5x 1/4", bits 25 mm TX20, white FÖRCH 5*
- Article no. 4314 5 25: 5x 1/4", bits 25 mm TX25, black FÖRCH 5*
- Article no. 4314 5 30: 5x 1/4", bits 25 mm TX30, red FÖRCH 5*



Bit magazine TX **FÖRCH*******

- range in high quality bit magazine
- bits in professional quality with colour code system
- bits in tough design for tough screw -joints

Article No.	Article Description	QTY
4319 60	1/4"BIT-MAGAZ.TX 60BITS 5*	1

Contents:

- article no. 4314 5 10: 5x 1/4", bits 25 mm TX10 blue FÖRCH 5*
- article no. 4314 5 15: 10x 1/4" bits 25 mm TX15 yellow FÖRCH 5*
- article no. 4314 5 20: 10x 1/4" bits 25 mm TX20 white FÖRCH 5*
- article no. 4314 5 25: 15x 1/4" bits 25 mm TX25 black FÖRCH 5*
- article no. 4314 5 30: 15x 1/4" bits 25 mm TX30 red FÖRCH 5*
- article no. 4314 5 40: 5x 1/4" Bits 25 mm TX40 grey FÖRCH 5*



Bit-Set with Carabiner

Bit-Kit for rapid access to bits and bit holders

- 30 mm long bits
- 1/4" mount
- with bit holder

Article No.	Article Description	QTY
4319 200 1	BIT-KIT 1/4"W.CARAB.17-PCE UNI	1
4319 200 2	BIT-KIT 1/4"W.CARAB.17-PCE WOOD	1
4319 200 3	BIT-KIT 1/4"W.CARAB.17-PCE S.ST	1
4319 200 4	BIT-SET 1/4"W.CARAB.19-PCE TX	1
4319 200 5	BIT-SET 1/4"W.CARAB.12-PCE SF	1

Contents:

Art.-No. 4319 200 1:

- each 1x: PH 1/2/3
- each 1x: PZ 1/2/3
- each 1x: TX 10/15/20/25/30/40
- each 1x: Inbus 3/4/5
- 1x: LS 0.8x5.5
- 1x: Bit-holder with magnet 50 mm

Art.-No. 4319 200 2:

- each 1x: PH Inkra 2/3
- each 1x: PZ Inkra 2/3
- each 4x: TX Optigrip 20/25
- each 2x: TX Optigrip 30/40
- 1x: Bit-holder with magnet 50 mm

Art.-No. 4319 200 3:

- each 5x: TX stainless steel 20/25
- 2x: TX stainless steel 15
- each 1x: TX stainless steel 30/40
- 1x: Bit holder 1/4" stainless steel with quick-change chuck

Art.-No. 4319 200 4:

- each 4x: TX 25/30
- each 3x: TX 20/40
- each 2x: TX 10/15
- 1x: Bit holder with magnet 50 mm

Art.-No. 4319 200 5:

- each 1x PH 2/3
- each 1x PZ 2/3
- each 1x TX 10/15/20/25/30/40
- 1x: Bit holder with magnet 58 mm impact resistant



Torsion-Bit Set



Article No.	Article Description	QTY
4319 1	BIT-SET MINI M.HOLDER 7-PART	1 z

Art. No. 4319 10 Bit-Set Universal equipped with:

- 1/4" - E 6.3 Universal-open back holder with magnet
- 1 TORSION-Bit LS 0.8x5.5 / 1.0x5.5 / 1.2x6.5 PH 1 / 2 / 3 PZ 1 / 2 / 3

Art. No. 4319 1 Bit-Set Universal „mini“ equipped with:

- 1/4" - E 6.3 Universal-bit holder with magnet
- As well as 1 TORSION-Bit LS 0.6x4.5 / 0.8x5.5 PH 1 / 2 PZ 1 / 2



Torsion-Bit PH-Cross Slot 1/4" E 6.3 FORCH*****

- Robust version for 'hard material'

Article No.	Article Description	QTY
4330 1	E6.3-PH-TORSION-BITS 50MM 1	1 z
4330 2	E6.3-PH-TORSION-BITS 50MM 2	1 z
4330 3	E6.3-PH-TORSION-BITS 50MM 3	1 z

(Intake/ length in mm / size PH)



Torsion-Bit PZ-Cross Slot 1/4" - E 6.3 FORCH*****

- Extra hard version for "soft material"

Article No.	Article Description	QTY
4332 1	E6.3-PZ-TORSION-BITS 50MM 1	1 z
4332 2	E6.3-PZ-TORSION-BITS 50MM 2	1 z
4332 3	E6.3-PZ-TORSION-BITS 50MM 3	1 z

(Intake/ length in mm / size PH)



Torsion-Bit LS 1/4" FORCH*****

- Robust version for "hard material"

Article No.	Article Description	QTY
4310 06 45	1/4" TORSION-BIT 25MM 0.6X4.5	1 z
4310 08 55	1/4" TORSION-BIT 25MM 0.8X5.5	1 z
4310 1 55	1/4" TORSION-BIT 25MM 1.0X5.5	1 z
4310 12 65	1/4" TORSION-BIT 25MM 1.2X6.5	1 z
4310 16 8	1/4" TORSION-BIT 25MM 1.6X8	1 z

(Intake/ length in mm / size PH)



52 pce Bit Organiser **FÖRCH*******

- 52-bit assortment in convenient bit organiser

TX and PH/PZ bits

- Toughened models for hard screw-joints
- Significantly longer lifespan as well as reduced danger of breakage

Hexagon socket bits

- Especially designed (Hex Plus) to enable greater power transmission
- Due to the surface contact, the concentration of stress in the screw head is significantly reduced

Article No.	Article Description	QTY
4319 52	1/4"BIT-MAGAZIN-SET 52 BITS 5*	1

Contents:

- Article no. 4305 3: 3x 1/4" Hex hexagon socket bit, 25 mm 3
- Article no. 4305 4: 3x 1/4" Hex hexagon socket bit, 25 mm 4
- Article no. 4305 5: 3x 1/4" Hex hexagon socket bit, 25 mm 5
- Article no. 4305 6: 3x 1/4" Hex hexagon socket bit, 25 mm 6
- Article no. 4311 5 1: 5x 1/4" PH bits 25 mm size 1, yellow FÖRCH 5*
- Article no. 4311 5 2: 5x 1/4" PH bits 25 mm size 2, white FÖRCH 5*
- Article no. 4312 5 1: 5x 1/4" PZ bits 25 mm size 1, blue FÖRCH 5*
- Article no. 4312 5 2: 5x 1/4" PZ bits 25 mm size 2, black FÖRCH 5*
- Article no. 4314 5 15: 5x 1/4" bits 25 mm TX15, yellow FÖRCH 5*
- Article no. 4314 5 20: 5x 1/4" bits 25 mm TX20, white FÖRCH 5*
- Article no. 4314 5 25: 5x 1/4" bits 25 mm TX25, black FÖRCH 5*
- Article no. 4314 5 30: 5x 1/4" bits 25 mm TX30, red FÖRCH 5*

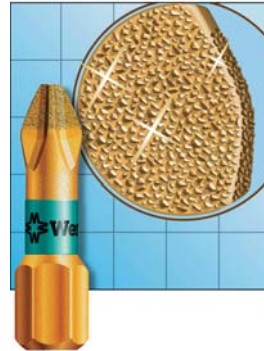


Torsion-Bit PH-Cross Slot Diamond 1/4"

- Bit with hardest 'Bite'
- The combination of Torsion-Bits with diamond coating is the ideal tool against expensive slippings
- Thousands of diamond particles the screw head
- The results are:- Reduced wastage- Less contact pressure is necessary- No slipping of the screw anymore
- Robust version for 'hard material'

Article No.	Article Description	QTY
4316 1	1/4"PH-DIAMOND-BIT 25MM SIZE 1	1 z
4316 2	1/4"PH-DIAMOND-BIT 25MM SIZE 2	1 z
4316 3	1/4"PH-DIAMOND-BIT 25MM SIZE 3	1 z

(Intake/ length in mm / size)



Torsion-Bit PH-Cross Slot Diamond 1/4" - E 6.3

- Robust version for 'hard material'

Article No.	Article Description	QTY
4331 1	E6.3-PH-DIAMOND-BITS 50MM 1	1 z
4331 2	E6.3-PH-DIAMOND-BITS 50MM 2	1 z
4331 3	E6.3-PH-DIAMOND-BITS 50MM 3	1 z

(Intake/ length in mm / size)



Torsion-Bit PZ-Cross Slot Diamond 1/4"

- Extra hard version for 'soft material'

Article No.	Article Description	QTY
4317 1	1/4"PZ-DIAMOND-BITS 25MM SIZE1	1 z
4317 2	1/4"PZ-DIAMOND-BITS 25MM SIZE2	1 z
4317 3	1/4"PZ-DIAMOND-BITS 25MM SIZE3	1 z

(Intake/ length in mm / size)



Torsion-Bit PZ-Cross Slot Diamond 1/4" - E 6.3

- Extra hard version 'soft material'

Article No.	Article Description	QTY
4333 1	E6.3-PZ-DIAMOND-BITS 50MM 1	1 z
4333 2	E6.3-PZ-DIAMOND-BITS 50MM 2	1 z
4333 3	E6.3-PZ-DIAMOND-BITS 50MM 3	1 z

(Intake/ length in mm / size)



Torsion-Bit LS Diamond 1/4"

- Robust version for 'hard material'

Article No.	Article Description	QTY
4315 08 55	1/4"DIAMOND-BITS 25MM 0.8X5.5	1 z
4315 1 55	1/4"DIAMOND-BITS 25MM 1.0X5.5	1 z
4315 12 65	1/4"DIAMOND-BITS 25MM 1.2X6.5	1 z

(Intake/ length in mm / size)



Torsion-Bit TX Diamond 1/4"

- Robust version for 'hard material'

Article No.	Article Description	QTY
4318 10	1/4"DIAMOND-BITS 25MM TX 10	1 z
4318 15	1/4"DIAMOND-BITS 25MM TX 15	1 z
4318 20	1/4"DIAMOND-BITS 25MM TX 20	1 z
4318 25	1/4"DIAMOND-BITS 25MM TX 25	1 z
4318 30	1/4"DIAMOND-BITS 25MM TX 30	1 z
4318 40	1/4"DIAMOND-BITS 25MM TX 40	1 z

(Intake/ length in mm / size)



Bit-Holder 1/4" with Quick-Change Chuck



Art.-No. 4355 1:

- Without magnet, for self-tapping metal screws

Art.-No. 4355 2, 4355 5:

- With magnet

Art.-No. 4355 6:

- BiTorsion for long service life
- kinetic energy from peak loads is dissipated via the drive tip
- suitable for screwing machines with intake according to DIN 3126-F 6,3, ISO 1173
- with retainer ring and magnet

Art.-No. 4355 7:

- dual-torsion spring to buffer extreme impulse peaks
- suitable for impact wrenches
- with retainer ring and magnet to hold long and heavy screws



4355 1, 4355 2



4355 5



4355 6



4355 7

Article No.	Article Description	QTY
4355 1	E6.3-1/4-BIT HOLDER 51MM	1 ü
4355 2	E6.3-1/4-BIT HOLDER MAGN.52MM	1 ü
4355 5	E6.3-1/4 BIT-HOLD.SNOW-WHIT 50	1
4355 6	E6,3-1/4-BIT HOLD.RAPID 75MM	1
4355 7	E6,3-1/4-BIT HOLD.IMPACT.75MM	1

(Intake/ length mm)

Standard-Bit-Holder 1/4"

- with magnet

Article No.	Article Description	QTY
4355 3	E6.3-1/4 BIT MAGNET HOLDER50MM	1 z
4355 4	E6.3-1/4 BIT MAGNET HOLDER74MM	

(Intake/ length mm)



Tool-Intake Shaft for Socket Wrench Insert

- with locking pin for machine operated socket wrench inserts
- with locking ball for manually operated socket wrench inserts

Art.-No. 4358 7:

Article No.	Article Description	QTY
4358 1	E6.3-1/4-SQUARE DRIVE 50MM	1 ü
4358 2	E6.3-1/4-SQUARE DRIVE 100MM	1 ü
4358 5	E6.3-3/8-SQUARE DRIVE 50MM	1 ü
4358 7	E6.3-1/4-SQUARE H-DRIVE 50MM	1 z

(Intake/ length in mm)



4358 1, 4358 2, 4358 5



4358 7

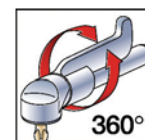
Offset screws set 1/4

- For battery-powered driver or manual driver Art.-No. 4379 11

Technical Data

input / output:	1/4"
length:	140 mm
angle:	105°
max torque:	11 Nm
max speed:	400 1/min

Article No.	Article Description	QTY
5300 1	OFFSET SCREWS SET 1/4"	1



Bit Stainless Steel Cross Slot PZ 1/4"

- Stainless steel against external rust of stainless steel screws
- Torsion shape against early wear

Article No.	Article Description	QTY
4362 14 1 1	1/4"PZ-BIT 25MM SIZE1 ST.STEEL	e 10
4362 14 2 1	1/4"PZ-BIT 25MM SIZE2 ST.STEEL	e 10
4362 14 3 1	1/4"PZ-BIT 25MM SIZE3 ST.STEEL	e 10



Bit Stainless Steel Cross Slot PH 1/4"

- Stainless steel against external rust of stainless steel screws
- Torsion shape against early wear

Article No.	Article Description	QTY
4362 14 1	1/4"PH-BIT 25MM SIZE1 ST.STEEL	e 10
4362 14 2	1/4"PH-BIT 25MM SIZE2 ST.STEEL	e 10
4362 14 3	1/4"PH-BIT 25MM SIZE3 ST.STEEL	e 10



Bit Stainless Steel TX 1/4"

- Stainless steel against external rust of stainless steel screws
- Torsion shape against early wear

Article No.	Article Description	QTY
4362 14 10	1/4"BIT 25MM TX10 STAINL.STEEL	e 10
4362 14 15	1/4"BIT 25MM TX15 STAINL.STEEL	e 10
4362 14 20	1/4"BIT 25MM TX20 STAINL.STEEL	e 10
4362 14 25	1/4"BIT 25MM TX25 STAINL.STEEL	e 10
4362 14 27	1/4"BIT 25MM TX27 STAINL.STEEL	e 10
4362 14 30	1/4"BIT 25MM TX20 STAINL.STEEL	e 10
4362 14 40	1/4"BIT 25MM TX40 STAINL.STEEL	e 10



Bit stainless steel hexagon socket 1/4"

- stainless steel against external rust of stainless steel screws
- Torsion shape against early wear

Article No.	Article Description	QTY
4362 14 25 15	1/4"BIT HEX SOCK.25MM 1.5 ES.	e 10
4362 14 25 20	1/4"BIT HEX SOCK.25MM 2.0 ES.	e 10
4362 14 25 25	1/4"BIT HEX SOCK.25MM 2.5 ES.	e 10
4362 14 25 30	1/4"BIT HEX SOCK.25MM 3.0 ES.	e 10
4362 14 25 40	1/4"BIT HEX SOCK.25MM 4.0 ES.	e 10
4362 14 25 50	1/4"BIT HEX SOCK.25MM 5.0 ES.	e 10
4362 14 25 55	1/4"BIT HEX SOCK.25MM 5.5 ES.	e 10
4362 14 25 60	1/4"BIT HEX SOCK.25MM 6.0 ES.	e 10



Bit-Set Stainless Steel 1/4", 10-pcs.



- Stainless steel against external rust of stainless steel screws
- Torsion shape against early wear
- Storing in robust and folding Bit-Check-Holder

Contents:

- 1 x Stainless steel holder Rapidaptor
- 4 x Bits: 1 x PH 2, 1 x PZ 1, 2 x PZ 2
- 5 x Torx: TX10, TX15, TX20, TX25, TX30



Article No.	Article Description	QTY
4362 25 10	BIT SET 25MM 10PCS.ST.STEEL	1

Bit-Set Stainless Steel 1/4", 30-pcs.



- Stainless steel against external rust of stainless steel screws
- Torsion shape against early wear
- Storing in robust and folding Bit-Check-Holder

Contents:

- 1 x Stainless steel holder Rapidaptor 1/4" x 50
- 5 x Hex bit: 1 x 2.5; 1 x 3.0; 1 x 4.0; 1 x 5.0; 1 x 5.5
- 5 x PH-cross slot bit: 1 x PH 1; 3 x PH 2; 1 x PH 3
- 6 x PZ-cross slot bit: 2 x PZ 1; 3 x PZ 2; 1 x PZ 3
- 13 x Torx bit: 2 x TX 10; 2 x TX 15; 3 x TX 20; 3 x TX 25; 2 x TX 30; 1 x TX 40



Article No.	Article Description	QTY
4362 25 30	BIT SET 25MM 30PCS.ST.STEEL	1

Bit-Holder 1/4" Stainl. St with Quick-Change Chuck

- Suitable for bits with 1/4" outside hexagon drive
- **Drive:** 1/4" hexagon



Article No.	Article Description	QTY
4362 14 50	1/4"BIT HOLDER 50MM ST.STEEL	e 5

Socket Wrench Inserts Stainless Steel 1/4"

- Stainless steel against external rust of stainless steel screws
- Non-magnetic, with retaining spring

Field of application:

- Outside hexagon screws



Article No.	Article Description	QTY
4362 14 3 8	1/4"SOCK.WREN.INS.3/8"ST.STEEL	e 5
4362 14 8	1/4"SOCK.WREN.INS.8MM ST.STEEL	e 5

Impact-resistant bit holder

- Impact-resistant
- With magnet
- The sleeve is cold-forged on to the drive
- Length: 58 mm



Article No.	Article Description	QTY
4338 1 58	1/4" BIT MAG.HOLDER 58MM IMPAC	1

(Receptacle/length in mm)

Your Advantage / Benefit

- For all impact screwdrivers with a 1/4" hexagonal receptacle
- Total length of 30 mm can also be inserted directly into impact screwdriver
- Up to 12x longer working life thanks to special heat treatment

Application



Impact-resistant bits PH 1/4"

- For all impact screwdrivers with a 1/4" hexagonal drive

Article No.	Article Description	QTY
4338 2	1/4" PH-BIT 30MM SZ2 IMPACT-R.	e 10
4338 3	1/4" PH-BIT 30MM SZ3 IMPACT-R.	e 10



Impact-resistant bits PZ 1/4"

- For all impact screwdrivers with a 1/4" hexagonal drive

Article No.	Article Description	QTY
4338 2 1	1/4" PZ-BIT 30MM SZ2 IMPACT-R.	e 10
4338 3 1	1/4" PZ-BIT 30MM SZ3 IMPACT-R.	e 10



Impact-resistant bits TX 1/4"

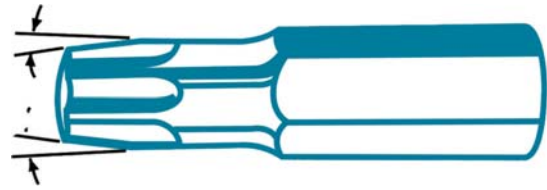
- For all impact screwdrivers with a 1/4" hexagonal drive

Article No.	Article Description	QTY
4338 10	1/4" TX10 BIT 30MM IMPACT-RES.	e 10
4338 15	1/4" TX15 BIT 30MM IMPACT-RES.	e 10
4338 20	1/4" TX20 BIT 30MM IMPACT-RES.	e 10
4338 25	1/4" TX25 BIT 30MM IMPACT-RES.	e 10
4338 30	1/4" TX30 BIT 30MM IMPACT-RES.	e 10
4338 40	1/4" TX40 BIT 30MM IMPACT-RES.	e 10



TX-Bit OptiGrip

- Bit form for all screws with TX drive as well as congeneric systems
- Conical process of the bit flanks
- Allows clamping which prevents a lateral tilting of the screw; important for single-handed mountings
- Extreme penetration depth in the screw
- Consistent strain of all flanks and thus essentially higher torque values than standard bits
- Breakage or early wastage is consequently prevented



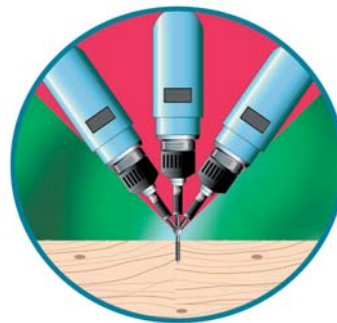
Article No.	Article Description	QTY
4313 10	1/4"TX-BIT OPTIGRIP 25MM TX 10	e 10
4313 15	1/4"TX-BIT OPTIGRIP 25MM TX 15	e 10
4313 20	1/4"TX-BIT OPTIGRIP 25MM TX 20	e 10
4313 25	1/4"TX-BIT OPTIGRIP 25MM TX 25	e 10
4313 30	1/4"TX-BIT OPTIGRIP 25MM TX 30	e 10
4313 40	1/4"TX-BIT OPTIGRIP 25MM TX 40	e 10
4313 20 50	1/4"TX-BIT OPTIGRIP 50MM TX 20	e 10
4313 25 50	1/4"TX-BIT OPTIGRIP 50MM TX 25	e 10
4313 30 50	1/4"TX-BIT OPTIGRIP 50MM TX 30	e 10
4313 40 50	1/4"TX-BIT OPTIGRIP 50MM TX 40	e 10

Cross Slot-Bit Inkra

- Ideal profile top which makes an inclined position of the bit axle possible
- No rattling of the bit on the screw
- No damaging of the screw drive; thus the screw is protected against rust and can be loosened without any problem
- Long lifetime



Article No.	Article Description	QTY
4307 1	1/4"PZ-BIT INKRA 25MM SIZE 1	e 10
4307 2	1/4"PZ-BIT INKRA 25MM SIZE 2	e 10
4307 3	1/4"PZ-BIT INKRA 25MM SIZE 3	e 10
4307 1 1	1/4"PH-BIT INKRA 25MM SIZE 1	e 10
4307 2 1	1/4"PH-BIT INKRA 25MM SIZE 2	e 10
4307 3 1	1/4"PH-BIT INKRA 25MM SIZE 3	e 10



approx. 10° inclination possible

Bit Assortment - OptiGrip

Article No.	Article Description	QTY
4313 100	BIT-ASSORTMENT TX OPTIGRIP	1

- Contents:**
- 1 x TX 10/40
 - 2 x TX 15/20/25/30
 - 1x standard bit holder EG3 with magnet



Bit Assortment - Inkra

Article No.	Article Description	QTY
4307 102	BIT ASSORTMENT PH/PZ INKRA	1

- Contents:**
- 1x PH 1, PH 3, PZ 1, PZ 3
 - 3x PH 2, PZ 2
 - 1x standard-bit holder E6.3 with magnet



Standard-Bit PH-Cross Slot 1/4“

Versions:

- long
- short

Article No.	Article Description	QTY
4301 1	1/4"PH-BITS 25MM SIZE 1	1 z
4301 1 50	1/4"PH-BITS 50MM SIZE 1	1 z
4301 2	1/4"PH-BITS 25MM SIZE 2	1 z
4301 2 50	1/4"PH-BITS 50MM SIZE 2	1 z
4301 3	1/4"PH-BITS 25MM SIZE 3	1 z
4301 3 50	1/4"PH-BITS 50MM SIZE 3	1 z
4301 4	1/4"PH-BITS 32MM SIZE 4	1 z

(Intake/ length in mm / size)



Standard-Bits cross slot PH 5/16”

Article No.	Article Description	QTY
4351 1	5/16"PH-BITS 32MM GR.1	1 z
4351 2	5/16"PH-BITS 32MM GR.2	1 z
4351 3	5/16"PH-BITS 32MM GR.3	1 z
4351 4	5/16"PH-BITS 32MM GR.4	1 z

(Intake/ length in mm / size)



Bit cross slot PH 5/16“ **ECO**

Article No.	Article Description	QTY
4351N 3	5/16"PH-BIT GR 3 30MM ECO	1
4351N 4	5/16"PH-BIT GR 4 30MM ECO	1



Standard-Bit PH-Cross Slot 1/4“ - E6.3

Article No.	Article Description	QTY
4330 1 70	E6,3-PH BITS 70MM 1	1 z
4330 2 70	E6,3-PH BITS 70MM 2	1 z
4330 3 70	E6,3-PH BITS 70MM 3	1 z

(Intake/ length in mm / size)



Standard-Bit PZ-Cross Slot 1/4"

Versions:

- long
- short

Article No.	Article Description	QTY
4302 1	1/4"PZ-BITS 25MM SIZE 1	1 z
4302 1 50	1/4"PZ-BITS 50MM SIZE 1	1 z
4302 2	1/4"PZ-BITS 25MM SIZE 2	1 z
4302 2 50	1/4"PZ-BITS 50MM SIZE 2	1 z
4302 3	1/4"PZ-BITS 25MM SIZE 3	1 z
4302 3 50	1/4"PZ-BITS 50MM SIZE 3	1 z
4302 4	1/4"PZ-BITS 32MM SIZE 4	1 z

(Intake/ length in mm / size)



Bit Standard Cross Slot PZ, 5/16"

Article No.	Article Description	QTY
4352 1	5/16"PZ-BITS 32MM SIZE 1	1 z
4352 2	5/16"PZ-BITS 32MM SIZE 2	1 z
4352 3	5/16"PZ-BITS 32MM SIZE 3	1 z

(Intake / length in mm / size)



Bit cross slot PZ 5/16" **ECO**

Article No.	Article Description	QTY
4352N 3	5/16"PZ-BIT SIZE 3 ECO	1
4352N 4	5/16"PZ-BIT SIZE 4 ECO	1



Standard-Bit PZ-Cross Slot 1/4" - E6.3

Article No.	Article Description	QTY
4332 1 70	E6.3-PZ BITS 70MM 1	1 z
4332 2 70	E6.3-PZ BITS 70MM 2	1 z
4332 3 70	E6.3-PZ BITS 70MM 3	1 z

(Intake/ length in mm / size)



LS Bit Insert 1/4" – F 6,3 **FÖRCH*******

- Particularly suitable for difficult screwing-in jobs, e.g. into sheeting or metal
- The Wera brand



Article No.	Article Description	QTY
4327 55	1/4"BITINSERT 50MM 1,0X5,5 5*	1 z

(Attachment/ length in mm / size)

Standard-Bit LS 1/4"

Article No.	Article Description	QTY
4300 3	1/4"SLOTTED-BITS 25MM 0,5X3	1 z
4300 4	1/4"SLOTTED-BITS 25MM 0,5X4	1 z
4300 45	1/4"SLOTTED-BITS 25MM 0,6X4,5	1 z
4300 55	1/4"SLOTTED-BITS 25MM 0,8X5,5	1 z
4300 7	1/4"SLOTTED-BITS 25MM 1,0X7	1 z
4300 8	1/4"SLOTTED-BITS 25MM 1,6X8	1 z

(Intake/ length in mm / size)



Standard-Bit LS 5/16"

Article No.	Article Description	QTY
4350 55	5/16"BITS LS 41MM 1,0X5,5	1 z
4350 65	5/16"BITS LS 41MM 1,2X6,5	1 z
4350 8	5/16"BITS LS 41MM 1,6X8	1 z

(Intake/ length in mm / size)



Bit slot LS 5/16" **ECO**

Article No.	Article Description	QTY
4350N 8	5/16"BIT LS 1.3X 8 30MM ECO	1
4350N 10	5/16"BIT LS 1.7X10 30MM ECO	1
4350N 12	5/16"BIT LS 1.9X12 30MM ECO	1

(Intake / length in mm / size)



Standard-Bit TX 1/4" - E 6.3 **FÖRCH*******

- Particularly suitable for difficult screwing-in jobs, e.g. into sheeting or metal
- The Wera brand



Article No.	Article Description	QTY
4334 1 10	E6.3-TX BITS 50MM TX 10 5*	1 z
4334 10	E6.3-TX BITS 70MM TX 10 5*	1 z
4334 1 15	E6.3-TX-BITS 50MM TX 15 5*	1 z
4334 15	E6.3-TX-BITS 70MM TX 15 5*	1 z
4334 1 20	E6.3-TX-BITS 50MM TX 20 5*	1 z
4334 20	E6.3-TX-BITS 70MM TX 20 5*	1 z
4334 1 25	E6.3-TX-BITS 50MM TX 25 5*	1 z
4334 25	E6.3-TX-BITS 70MM TX 25 5*	1 z
4334 1 27	E6.3-TX-BITS 50MM TX 27 5*	1 z
4334 27	E6.3-TX-BITS 70MM TX 27 5*	1 z
4334 1 30	E6.3-TX-BITS 50MM TX 30 5*	1 z
4334 30	E6.3-TX-BITS 70MM TX 30 5*	1 z
4334 1 40	E6.3-TX-BITS 50MM TX 40 5*	1 z
4334 40	E6.3-TX-BITS 70MM TX 40 5*	1 z

(Intake/ length in mm / size)

Standard-Bit TX 1/4"

Versions:

- long
- short

Article No.	Article Description	QTY
4303 7	1/4"TX-BITS 25MM TX 7	1 z
4303 8	1/4"TX-BITS 25MM TX 8	1 z
4303 10	1/4"TX-BITS 25MM TX 10	1 z
4303 15	1/4"TX-BITS 25MM TX 15	1 z
4303 20	1/4"TX-BITS 25MM TX 20	1 z
4303 25	1/4"TX-BITS 25MM TX 25	1 z
4303 25 50	1/4"TX-BITS 50MM TX 25	1 z
4303 27	1/4"TX-BITS 25MM TX 27	1 z
4303 30	1/4"TX-BITS 25MM TX 30	1 z
4303 30 50	1/4"TX-BITS 50MM TX 30	1 z
4303 40	1/4"TX-BITS 25MM TX 40	1 z
4303 45	1/4"TX BITS 25MM TX 45	1
4303 50 35	1/4"TX-BITS 35MM TX 50	1 z

(Intake/ length in mm / size)

Bit TX 1/4" **ECO**

Article No.	Article Description	QTY
4303N 5	1/4"TX-BIT 25MM TX 5 ECO	1
4303N 6	1/4"TX-BIT 25MM TX 6 ECO	1
4303N 7	1/4"TX-BIT 25MM TX 7 ECO	1

(Intake / length in mm / size)



Standard 1/4" Bit for TX with Head Drill Hole

Article No.	Article Description	QTY
4308 10	1/4"TX HOLE BITS 25MM TX10	1 z
4308 15	1/4"TX HOLE BITS 25MM TX15	1 z
4308 20	1/4"TX HOLE BITS 25MM TX20	1 z
4308 25	1/4"TX HOLE BITS 25MM TX25	1 z
4308 27	1/4"TX HOLE BITS 25MM TX27	1 z
4308 30	1/4"TX HOLE BITS 25MM TX30	1 z
4308 40	1/4"TX HOLE BITS 25MM TX40	1 z
4308 45	1/4"TX HOLE BITS 25MM TX45	1

(Intake/ length in mm / size)



Bit TX 1/4" with drill hole head **ECO**

Article No.	Article Description	QTY
4308N 7	1/4"DR.HOLE BIT 25MM TX 7 ECO	1
4308N 8	1/4"DR.HOLE BIT 25MM TX 8 ECO	1
4308N 10	1/4"DR.HOLE BIT 25MM TX10 ECO	1
4308N 15	1/4"DR.HOLE BIT 25MM TX15 ECO	1
4308N 20	1/4"DR.HOLE BIT 25MM TX20 ECO	1
4308N 27	1/4"DR.HOLE BIT 25MM TX27 ECO	1
4308N 30	1/4"DR.HOLE BIT 25MM TX30 ECO	1
4308N 45	1/4"DR.HOLE BIT 25MM TX45 ECO	1
4308N 40	1/4"DR.HOLE BIT 25MM TX40 ECO	1



Bit 5-Star 1/4" with Head Drill Hole **FÖRCH*******

- especially suitable for hard screw-joint, e.g. in sheet metal or metal
- Brand Wera

Article No.	Article Description	QTY
4328 20	1/4"5-STAR-BIT 20 25MM 5*	e 10
4328 25	1/4"5-STAR-BIT 25 25MM 5*	e 10
4328 27	1/4"5-STAR-BIT 27 25MM 5*	e 10
4328 30	1/4"5-STAR-BIT 30 25MM 5*	e 10

(Intake/ Drive / Size)

Technical Data

Art.No.	d mm	Length mm
4328 20	3,55	25
4328 25	4,15	25
4328 27	4,65	25
4328 30	5,10	25



Standard-Bit TX 5/16“

Article No.	Article Description	QTY
4353 20	5/16"TX-BITS 35MM TX20	1 z
4353 25	5/16"TX-BIT 35MM TX25	1 z
4353 25 110	5/16"TX-BIT 110MM TX25	1
4353 27	5/16"TX-BITS 35MM TX27	1 z
4353 30	5/16"TX-BIT 35MM TX30	1 z
4353 40	5/16"TX-BIT 35MM TX40	1 z
4353 40 110	5/16"TX-BIT 110MM TX40	1
4353 45	5/16"TX-BIT 35MM TX45	1 z
4353 45 110	5/16"TX-BIT 110MM TX45	1
4353 50	5/16"TX-BIT 35MM TX50	1 z
4353 55	5/16"TX-BIT 35MM TX55	1 z
4353 55 110	5/16"TX-BIT 110MM TX55	1

(Intake/ length in mm / size)



Bit Standard TX 5/16“ with Head Drill Hole

Article No.	Article Description	QTY
4309 40	5/16"BIT DRILL. 35MM TX 40	1 z
4309 45	5/16"BIT DRILL. 35MM TX 45	1
4309 50	5/16"BIT DRILL. 35MM TX 50	1
4309 55	5/16"BIT DRILL. 35MM TX 55	1 z

(Intake/ length in mm / size)



Bit TX 5/16“ with drill hole head **ECO**

Article No.	Article Description	QTY
4309N 40	5/16"DR.HOLE BIT TX40 30MM ECO	1
4309N 45	5/16"DR.HOLE BIT TX45 30MM ECO	1
4309N 50	5/16"DR.HOLE BIT TX50 30MM ECO	1
4309N 55	5/16"DR.HOLE BIT TX55 30MM ECO	1
4309N 60	5/16"DR.HOLE BIT TX60 30MM ECO	1
4309N 70	5/16"DR.HOLE BIT TX70 30MM ECO	1

(Intake / length in mm / size)



Bit XZN 1/4“ - E 6.3 **FÖRCH*******

- especially suitable for hard screw-joint, e.g. in sheet metal or metal
- Brand Wera

Article No.	Article Description	QTY
4326 4 50	XZN-BIT 25MM 1/4" XZN4 5*	1
4326 5 50	XZN-BIT 25MM 1/4" XZN5 5*	1
4326 6 50	XZN-BIT 25MM 1/4" XZN6 5*	1
4326 8 50	XZN-BIT 25MM 1/4" XZN8 5*	1

(Output/ length in mm / Size)



Bit XZN 1/4“ **ECO**

Article No.	Article Description	QTY
4326N 5	1/4"XZN BIT 5 25MM ECO	1
4326N 6	1/4"XZN BIT 6 25MM ECO	1
4326N 8	1/4"XZN BIT 8 25MM ECO	1

(Output / length in mm / size)



Standard-Bit Hexagon Socket Hex Plus 1/4"

Article No.	Article Description	QTY
4305 2	1/4"HEX-HEX.SOCKET BIT 25MM 2	1 z
4305 25	1/4"HEX-HEX.SOCKET BIT 25MM 2,5	1 z
4305 3	1/4"HEX-HEX.SOCKET BIT 25MM 3	1 z
4305 4	1/4"HEX-HEX.SOCKET BIT 25MM 4	1 z
4305 5	1/4"HEX-HEX.SOCKET BIT 25MM 5	1 z
4305 6	1/4"HEX-HEX.SOCKET BIT 25MM 6	1 z
4305 7	1/4"HEX-HEX.SOCKET BIT 25MM 7	1 z
4305 8	1/4"HEX-HEX.SOCKET BIT 25MM 8	1 z
4305 10	1/4"HEX-HEX.SOCKET BIT 25MM 10	1 z

(Intake/ length in mm / size)



Standard-Bit Hexagon Socket Hex Plus 1/4" - E 6.3

Article No.	Article Description	QTY
4336 3	E6.3-HEX.SOCKET BITS 50MM SW 3	1 z
4336 4	E6.3-HEX.SOCKET BITS 50MM SW 4	1 z
4336 5	E6.3-HEX.SOCKET BITS 50MM SW 5	1 z
4336 6	E6.3-HEX.SOCKET BITS 50MM SW 6	1 z
4336 8	E6.3-HEX.SOCKET BITS 50MM SW 8	1 z

(Intake/ length in mm / size)



Standard-Bits Hexagon Hex Plus 5/16"

Article No.	Article Description	QTY
4354 4	5/16"HEX.SOCKET BITS 30MM SW 4	1 z
4354 5	5/16"HEX.SOCKET BITS 30MM SW 5	1 z
4354 6	5/16"HEX.SOCKET BITS 30MM SW 6	1 z
4354 8	5/16"HEX.SOCKET BITS 30MM SW 8	1 z
4354 10	5/16"HEX.SOCKET BITS 30MM SW10	1 z

(Intake/ length in mm / size)



Bit hexagon socket 5/16" **ECO**

Article No.	Article Description	QTY
4354N 7	5/16"HEX.SOCK.BIT SZ7 30MM ECO	1
4354N 8	5/16"HEX.SOCK.BIT SZ8 30MM ECO	1
4354N 10	5/16"HEX.SO.BIT SZ10 30MM ECO	1
4354N 12	5/16"HEX.SO.BIT SZ12 30MM ECO	1
4354N 14	5/16"HEX.SO.BIT SZ14 30MM ECO	1

(Intake / length in mm / size)



Bit-Assortment 'Maxi' 1/4", 100-Part

Article No.	Article Description	QTY
4319 100	BIT-ASSORTM.MAXI 100-PART 1/4"	1

Contents:

- 7x PH 1/2/3
- 7x PZ 1/2/3
- 7x LS 4 / LS 6.5
- 7x Hexagon socket SW 4/5/6
- 2x TX 10/15/20/25/27/30/40
- 1x TX with drilling 10/15/20/25/27/30/40
- 1x Bit holder with magnet
- 1x Bit holder with quick-change chuck and magnet



Bit Cross Slot PH 1/4" **ECO**

Article No.	Article Description	QTY
4301N 3	PCK(10)1/4"PH BITS 25MM SIZE3	e 10



Bit TX 1/4" **ECO**

Article No.	Article Description	QTY
4303N 25	PCK(10)1/4"TX-BITS 25MM TX25	e 10



Bit-Safe with Holder 1/4" 30-Piece FÖRCH*****

- Universal equipment for all fields of application
- Magnet bit holder guarantees quick bit change
- Storing with foldable Bit-Check-holder with practical belt-clip

Article No.	Article Description	QTY
4319 8	1/4"BIT-SAFE W.HOLDER 5*30-PCS	1

Contents:

- 1x Magnet bit holder 1/4"
- 1x TX bit TX10 Art.-No. 4303 10
- 1x TX bit TX15 Art.-No. 4303 15
- 1x TX bit TX20 Art.-No. 4303 20
- 1x TX bit TX25 Art.-No. 4303 25
- 1x TX bit TX30 Art.-No. 4303 30
- 1x TX bit TX40 Art.-No. 4303 40
- 2x Cross recess bit PZ1 Art.-No. 4302 1
- 4x Cross recess bit PZ2 Art.-No. 4302 2
- 2x Cross recess bit PZ3 Art.-No. 4302 3
- 1x Cross recess bit PH1 Art.-No. 4301 1
- 1x Cross recess bit PH2 Art.-No. 4301 2
- 1x Cross recess bit PH3 Art.-No. 4301 3
- 1x Slotted bit LS4.0 Art.-No. 4300 4
- 1x Slotted bit LS5.5 Art.-No. 4300 55
- 1x Slotted bit LS6.5 Art.-No. 4300 7



1/4" Bit-Safe Tool Check Automotive, 38-pce FÖRCH*****

- Socket wrench for hand- or battery-operated screwing in with inserts (not for use with impact wrenches)
- Bit-holder rapid adapter for quick change of inserts
- 1/4" solid steel ratchet
- Small returning angle of 6° for precise work
- Bit-holder in release head, resulting in reduced tool assembly
- Optimal for use in small spaces
- Ratchet load of over 65 Nm
- Rapid turning due to knurling on release head

Article No.	Article Description	QTY
4319 12	1/4"BIT-SAFE TC AUTOM.38TLG.5*	1

Contents 4319 12:

- 1x Art.-No. 4401 14 85: Bit ratchet 1/4"
- 1x Art.-No. 4355 5: Universal quick-change holder with magnet 1/4"
- 1x Art.-No. 4361 14 64 50: adapter 1/4" hex - 1/4" square 25mm
- 1x PH 2/1 x PH 3
- each 1x TX 10 / 15 / 20 / 25 / 30 / 40
- each 1x TX 10 / 15 / 20 / 25 / 30 with head hole drilling
- 1x LS 1.0 x 5.5
- each 1x Allen key 3 / 4 / 5 / 6 / 8
- each 1x XZN 4 / 5 / 8
- each 2x XZN 6
- each 1x TX 20 / 25 / 27 / 30
- each 1x socket wrench insert FÖRCH 5*, 23 mm SW 5.5 / 6 / 7 / 8 / 10 / 12 / 13



Screwdriver Bit-Set 8-pcs. FORCH****



Article No.	Article Description	QTY
4319 102	BIT-ASSORTMENT MINI UNIV. 1/4"	1

Contents:

- 1x PZ 1/2
- 1x PH 1/2/3
- LS 4.0/5.5/6.5
- Bit holder with quick-charge chuck and magnet

Bit-Socket Wrench Insert 1/4" - E 6.3



- For hex head screws
- Length: 65 mm

Art. No. 4335 38:

- Suitable for front construction screws type A and BZ



Article No.	Article Description	QTY
4335 55	E6.3 HEX.SO.WR.INS.MAGN.SW 5.5	1 ü
4335 6	E6.3 HEX.SO.WR.INS.MAGN.SW 6	1 ü
4335 7	E6.3 HEX.SO.WR.INS.MAGN.SW 7	1 ü
4335 8	E6.3 HEX.SO.WR.INS.MAGN.SW 8	1 ü
4335 9	E6.3 HEX.SO.WR.INS.MAGN.SW 9	1 ü
4335 10	E6.3 HEX.SO.WR.INS.MAGN.SW 10	1 ü
4335 13	E6.3 HEX.SO.WR.INS.MAGN.SW 13	1 ü
4335 38	E6.3 HEX.SO.WR.INS.MAGN.SW 3/8	1 ü

(Intake/ SW mm)

Bit LS/PZ 1/4" E 6.5

- For PlusMinus screws (slot/Pozidriv combination profile) in the electrical sector
- Slot/Pozidriv combination profile, tough hard, particularly suitable for hard screwing situations e.g. in sheet metal or solid metal
- 1/4" hex, suitable for holder in accordance with DIN 3126-F6.3, ISO 1173

Article No.	Article Description	QTY
4321 70 1	1/4"BITS 70MM PZ1/SLOT	e 10
4321 70 2	1/4"BITS 70MM PZ2/SLOT	e 10



Ratchet Screwdriver 12 in 1

- Magazine screwdriver with ratchet
- Single-handed screwing
- Simple change of direction with one hand
- Pull-out, rotating bit magazine for max. 12 bits
- Secure locking of the bit magazine with snap closure
- 1/4" bits with colour coding system
- Two-component handle for secure grip



Article No.	Article Description	QTY
4210 4	RATCHET SCREWDRIVER 12 IN 1	1
4210P 4	PCK(3)RATCHET SCREWDRIVER 12 IN 1	1

Content each 1x:

- Art. No. 4310 06 45: 1/4" bit 25 mm 0,6 x 4,5
- Art. No. 4311 5 1: 1/4" bit 25 mm PH size 1 yellow FÖRCH 5*
- Art. No. 4311 5 2: 1/4" bit 25 mm PH size 2 white FÖRCH 5*
- Art. No. 4311 5 3: 1/4" bit 25 mm PH size 3 red FÖRCH 5*
- Art. No. 4312 5 1: 1/4" bit 25 mm PZ size 1 yellow FÖRCH 5*
- Art. No. 4312 5 2: 1/4" bit 25 mm PZ size 2 white FÖRCH 5*
- Art. No. 4312 5 3: 1/4" bit 25 mm PZ size 3 red FÖRCH 5*
- Art. No. 4314 5 10: 1/4" bit 25 mm TX 10 blue FÖRCH 5*
- Art. No. 4314 5 15: 1/4" bit 25 mm TX 15 yellow FÖRCH 5*
- Art. No. 4314 5 20: 1/4" bit 25 mm TX 20 white FÖRCH 5*
- Art. No. 4314 5 25: 1/4" bit 25 mm TX 25 black FÖRCH 5*
- Art. No. 4314 5 30: 1/4" bit 25 mm TX 30 red FÖRCH 5*



Mega-Pro Screwdriver 14 in 1

- Multiple screwdriver with 7 double bits
- Bit length: 50 mm



Article No.	Article Description	VPE
4210 3	MEGA-PRO SCREWDRIVER 14 IN 1	1

Contents:

- 1x Double blade PH1 x PH2
- 1x Double blade PZ1 x PZ2
- 1x Double blade PH3 x PZ3
- 1x Double blade TX10 x TX15
- 1x Double blade TX20 x TX25
- 1x Double blade TX27 x TX30
- 1x Double blade LS 4.5 x 5.5



Replacement Blades for Mega-Pro Screwdriver

Article No.	Article Description	QTY
4210 3 1 2	DOUBLE BLADE PZ1XPZ2	1
4210 3 3 3	DOUBLE BLADE PH3XPZ3	1
4210 3 01 02	DOUBLE BLADE PH1XPH2	1
4210 3 10 15	DOUBLE BLADE TX10XTX15	1
4210 3 20 25	DOUBLE BLADE TX20XTX25	1
4210 3 27 30	DOUBLE BLADE TX27XTX30	1
4210 3 45 55	DOUBLE BLADE 4.5X5.5	1

Bitmatic Screwdriver

Mechanism changes bits in seconds1. Pull back the handle2. Select the bit by turning the handle3. Push the handle forward4. The selected bit is immediately ready for use!

- High-quality construction
- Resistant against chemicals and impacts
- Comfortable anti-slipping handle
- Rotating front sleeve for fine uses of the screw
- Automatic-magazine Magnetic bit-tops
- Can be assembled individually by the user with 1/4" standard-bits, length 25 mm

Article No.	Article Description	QTY
4210 6	BITMATIC SCREWDRIVER	1

Contents:

- 1x PH 1/2/3
- 1x LS 0.65 x 3.1/0.80 x 4.8/1.0 x 6.3



Bit-Set Universal 1/4"



Article No.	Article Description	QTY
4319 22	UNIVERSAL BIT-SAFE BI-TORSION	1

Contents:

- 2x PH 1/3
- 6x PH 2
- 1x TX 10/40
- 2x TX 15/20/25/30
- 2x PZ 1/3
- 6x PZ 2
- 1x Bit holder with quick-change chuck



Bit-Box Universal 1/4"



Article No.	Article Description	QTY
4319 30	BIT-BOX WITH HOLDER 7-PART	1

Contents:

- 1x PH 1/2
- 1x PZ 1/2
- 1x LS 4.5/6.5
- Standard bit holder with magnet



Bit-Screwdriver with Magnet 1/4"

- Bit-Depot in handle



Article No.	Article Description	QTY
4345 1	1/4"-BIT-MAGAZ. SCREWDR. MAGNET	1

Contents:

- 1x PH 1/2
- 1x PZ 1/2
- 1x LS 5.5/6.5



Bit-Holder of SDS-Intake 1/4"

- With magnet

Article No.	Article Description	QTY
4385 14	SDS 1/4" BIT MAGNET HOLDER 79MM	1 ü



Intake Shaft of SDS-Intake, Square

- For socket wrench inserts 1/4"

Article No.	Article Description	QTY
4386 14	SDS 1/4"SQUARE DRIVE 70MM	1 ü



Bit-Set with Handle, 13-Part

- 13-part
- **Flexible:** bit set is suitable for hand operation as well as automatic screwing
- **Adjustable:** the user is well prepared for any requirement due to the wide variety of bits
- **Mobile:** Light and compact tool box for storage, safe transport and quick access
- By removing the bayonet blades from the handle, the blade can also be used as a machine adapter



Article No.	Article Description	QTY
4379 10	HANDLE-BIT SET (13P)	1
4379 11	HANDLE WITH BAYONET FIT.COMPL.	e 2

Contents:

- 1x PZ 1/2
- 1x PH 1/2
- 1x LS 0.6 x 4.5 / 1.0 x 5.5
- 1x TX 10/15/20/25/30/40
- Art. No. 4379 1 Handle with bayonet fitting - complete



Screwdriver Bit-Set 8-pcs. **FÖRCH*******

- The integrated bit magazine for 6 bits opens via pushbutton
- Fast access to various bits
- Magnetic bit holder for secure grip of bits
- 100 mm bayonet blade, can also be removed for the use in cordless drills etc.
- 2-component handle



Article No.	Article Description	QTY
4379 9	SCREWDRIVER BIT SET 8PCS. 5*	1

Contents:

- 1x PH 1/2
- 1x PZ 1/2
- 1x LS 5.5/6.5
- Belt bag



Replug Blades Screwdriver Set

- 11-part
- Blade length 175 mm
- In stable plastic case 4415 14 47 1
- Tool deposit VAROsoft 9026 611



Contents:

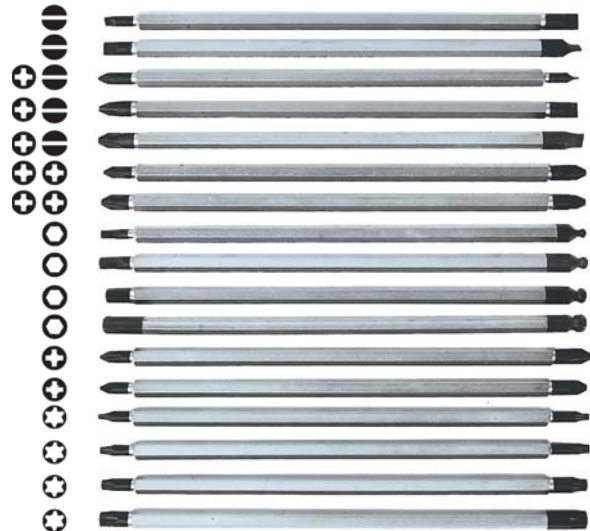
Art.-No.	Article Description	Quantity
4370 1	HANDLE MK FOR COMBI-BLADES	1
4372 11	COMBI BLADES SLOT 4/6MM	1
4372 12	COMBI BLADES SLOT 5/7MM	1
4372 42	COMBI BLADE HEX.SOCKET 4,0/4,0	1
4372 43	COMBI BLADE HEX.SOCKET 5,0/5,0	1
4372 44	COMBI BLADE HEX.SOCKET 6,0/6,0	1
4372 51	COMBI BLADE CROSS SLOT PH1/PH2	1
4372 61	COMBI BLADE CROSS SLOT PZ1/PZ2	1
4372 72	COMBI BLADE TORX TX10 / TX15	1
4372 73	COMBI BLADE TORX TX20 / TX25	1
4372 74	COMBI BLADE TORX TX30 / TX40	1
4415 14 47 1	EMPTY CASE SIZE A	1



Article No.	Article Description	QTY
4379 1	VS-COMBI BLADES SET (11P)	1

Replug Blades

Article No.	Article Description	QTY
4372 11	COMBI BLADES SLOT 4/6MM	1
4372 12	COMBI BLADES SLOT 5/7MM	1
4372 21	COMBI BLADES PH 1/SLOT 4MM	1
4372 22	COMBI BLADES PH 2/SLOT 6MM	1
4372 23	COMBI BLADES PH 3/SLOT 7MM	1
4372 31	COMBI BLADE CROSS SLOT PH1/PZ1	1
4372 32	COMBI BLADE CROSS SLOT PH2/PZ2	1
4372 41	COMBI BLADE HEX.SOCKET 3,0/3,0	1
4372 42	COMBI BLADE HEX.SOCKET 4,0/4,0	1
4372 43	COMBI BLADE HEX.SOCKET 5,0/5,0	1
4372 44	COMBI BLADE HEX.SOCKET 6,0/6,0	1
4372 51	COMBI BLADE CROSS SLOT PH1/PH2	1
4372 61	COMBI BLADE CROSS SLOT PZ1/PZ2	1
4372 71	COMBI BLADE TORX TX 7 / TX 9	1
4372 72	COMBI BLADE TORX TX10 / TX15	1
4372 73	COMBI BLADE TORX TX20 / TX25	1
4372 74	COMBI BLADE TORX TX30 / TX40	1



Adapter Blade 1/4" Bit

- with magnet

Article No.	Article Description	QTY
4371 1	1/4"BIT-ADAPTER BLADE 165MM	1 i



Adapter Blade 1/4" Socket Wrench Inserts

Article No.	Article Description	QTY
4371 2	1/4"SQUARE ADAPTER BLADE 175MM	1 i



Handle for Replug Blade / Adapter Blade

Article No.	Article Description	QTY
4370 1	HANDLE MK FOR COMBI-BLADES	1 z



Bit screwdriver with organiser

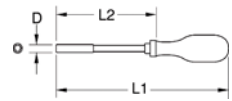
- Insulated as per DIN EN 60900
- With magnet
- For bits which comply with DIN 3126- C 6,3
- Chrome vanadium

Article No.	Article Description	QTY
4257 4	BIT SCR.DRIV.W.MAGAZ.1/4"	1



Technical Data

D	L1	L2
mm	mm	mm
12,5	230,0	120,0



VDE screwdriver set with interchangeable blade

- 16-piece
- Hand grip with VDE interchangeable blades, 154 mm
- Fulfills all requirements of appropriate national and international standards (IEC 60900:2004 or DIN EN 60900)
- Approved for working with voltages of up to AC 1000 V

Article No.	Article Description	QTY
4269 16	VDE-SCR.DR.SET CHANG.BIT 16-P.	1

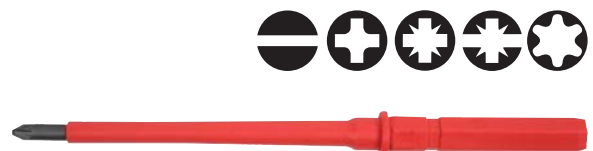
Each contains 1x:

- Hand grip Current tester 0.5 x 3.0 mm
- Slot bit 0.4 x 2.5/0.6 x 3.5/0.8 x 4.0/1.0 x 5.5 mm
- Cross slot bit PH 1/2
- Cross slot bit PZ 1/2
- Combo cross slot bit size 1/2
- TX bit TX 10/15/20/25



VDE interchangeable blades, 154 mm

Article No.	Article Description	QTY
4269 16 11	CHANGEAB.BIT SLIT 0.4X2.5	1 ü
4269 16 12	CHANGEAB.BIT SLIT 0.6X3.5	1 ü
4269 16 13	CHANGEAB.BIT SLIT 0.8X4.0	1 ü
4269 16 14	CHANGEAB.BIT SLIT 1.0X5.5	1 ü
4269 16 21	CHANGEAB.BIT CROSSTIP PH1	1 ü
4269 16 22	CHANGEAB.BIT CROSSTIP PH2	1 ü
4269 16 31	CHANGEAB.BIT CROSSTIP PZ1	1 ü
4269 16 32	CHANGEAB.BIT CROSSTIP PZ2	1 ü
4269 16 41	CHANG.BIT CROSSTIP COMBI SZ.1	1 ü
4269 16 42	CHANG.BIT CROSSTIP COMBI SZ.2	1 ü
4269 16 51	CHANGEAB.BIT TORX TX10	1 ü
4269 16 52	CHANGEAB.BIT TORX TX15	1 ü
4269 16 53	CHANGEAB.BIT TORX TX20	1 ü
4269 16 54	CHANGEAB.BIT TORX TX25	1 ü



VDE handle for interchangeable blades

Article No.	Article Description	QTY
4269 16 6	HANDGRIP VDE F. CHANGEABLE BIT	1



Safety bit set with handle

- 33 pieces
- folding bag with 89 mm long bits
- holder with quick-change chuck
- for hand and machine drive

Article No.	Article Description	QTY
4379 33	33-PART HANDLE F.BIT SET LONG	1

Each contains 1x:

- Hand holder 1/4" x 119 mm
- slot bit 1.2 x 6.5 mm
- hexagon socket with head hole 2.0/2.5/3.0/4.0/5.0/6.0
- crosshead bit-Bit PZ 1/2/3
- crosshead bit PH 1/2/3
- two-hole bit 4/6/8/10
- TX with head hole 8/10/15/20/25/27/30/40
- torq set bit 6/8/10
- Tri-Wing-Bit 1/2/3/4



Safety bits, 89 mm

Article No.	Article Description	QTY
4379 33 11	E6.3-BIT 89MM SLIT 1.2X6.5	1 z
4379 33 21	E6.3-BIT 89MM CROSS HEAD PH1	1 z
4379 33 22	E6.3-BIT 89MM CROSS HEAD PH2	1 z
4379 33 23	E6.3-BIT 89MM CROSS HEAD PH3	1 z
4379 33 31	E6.3-BIT 89MM CROSS HEAD PZ1	1 z
4379 33 32	E6.3-BIT 89MM CROSS HEAD PZ2	1 z
4379 33 33	E6.3-BIT 89MM CROSS HEAD PZ3	1 z
4379 33 41	E6.3-BIT 89MM TX8	1 z
4379 33 42	E6.3-BIT 89MM TX10	1 ü
4379 33 43	E6.3-BIT 89MM TX15	1 ü
4379 33 44	E6.3-BIT 89MM TX20	1 ü
4379 33 45	E6.3-BIT 89MM TX25	1 z
4379 33 46	E6.3-BIT 89MM TX27	1 ü
4379 33 47	E6.3-BIT 89MM TX30	1 ü
4379 33 48	E6.3-BIT 89MM TX40	1 ü
4379 33 51	E6.3-BIT 89MM I-HEX 2.0	1 ü
4379 33 52	E6.3-BIT 89MM I-HEX 2.5	1 ü
4379 33 53	E6.3-BIT 89MM I-HEX 3.0	1 ü
4379 33 54	E6.3-BIT 89MM I-HEX 4.0	1 ü
4379 33 55	E6.3-BIT 89MM I-HEX 5.0	1 ü
4379 33 56	E6.3-BIT 89MM I-HEX 6.0	1 ü
4379 33 61	E6.3-BIT 89MM TORQ- SET SZ. 6	1 z
4379 33 62	E6.3-BIT 89MM TORQ- SET SZ. 8	1 z
4379 33 63	E6.3-BIT 89MM TORQ- SET SZ.10	1 ü
4379 33 71	E6.3-BIT 89MM TRI-WING SZ. 1	1 ü
4379 33 72	E6.3-BIT 89MM TRI-WING SZ. 2	1 ü
4379 33 73	E6.3-BIT 89MM TRI-WING SZ. 3	1 ü
4379 33 74	E6.3-BIT 89MM TRI-WING SZ. 4	1 ü
4379 33 81	E6.3-BIT 89MM TWO-HOLE GR. 4	1 ü
4379 33 82	E6.3-BIT 89MM TWO-HOLE GR. 6	1 ü
4379 33 83	E6.3-BIT 89MM TWO-HOLE GR. 8	1 ü
4379 33 84	E6.3-BIT 89MM TWO-HOLE GR.10	1 ü



Handle 1/4" x 119 mm

Article No.	Article Description	QTY
4379 33 9	HANDLE W.QUICK CHANGE CHUCK	1 ü



Bit-Socket Wrench Set 10 Profi, 10 mm-Shaft

- 57-piece in plastic case Art. No. 4415 14 47 1 with VAROsoft tool deposit Art. No. 9026 76

Article No.	Article Description	QTY
4430 58	VS-BIT/SOCK.WR.SET 10MM 57PART	1

Contents:

- Insert 1/4" drive TX E4, E5, E6, E7, E8
- Insert 1/2" drive TX E10/E11/E12/E14/E16/E18/E20
- Torx bit, long TX 20/25/27/30/40/45/50/55/60
- Torx bit, short TX 20/25/27/30/40/45/50/55/60
- Internal multiple teeth-bit, short XZN 5/6/8/10/12
- Internal multiple teeth-bit, long XZN 6/8/10/12
- Hexagon socket-bit, short SW 4/5/6/7/8/10/12
- Hexagon socket-bit, long SW 5/6/7/8/10
- Slotted-bit, short LS 8/10
- Philips-bit, short PH 2/3
- 1/2" Bit adapter 10 mm
- 10 mm bit-ratchet, length 112 mm



Adapter for Bit-Intake

Article No.	Article Description	QTY
4361 12 10	1/2"X10MM BIT ADAPTER STANDARD	1
4361 38 10	3/8"X10MM BIT ADAPTER STANDARD	1



Bit Cross Slot, 10 mm-Shaft

Article No.	Article Description	QTY
4325 2	10MM-PH-BIT 30MM PH2	1
4325 3	10MM-PH-BIT 30MM PH3	1

(Shaft/ length in mm)



Bit LS, 10 mm-Shaft

Article No.	Article Description	QTY
4324 8	10MM-SLOTTED-BIT 30MM LS 8	1
4324 10	10MM-SLOTTED-BIT 30MM LS 10	1

(Shaft/ length in mm)



Bit Hexagon Socket, 10 mm-Shaft

Article No.	Article Description	QTY
4323 4	10MM-HEX.SOCKET-BIT 30MM 4	1
4323 5	10MM-HEX.SOCKET-BIT 30MM 5	1
4323 5 75	10MM-HEX.SOCKET-BIT 75MM 5	1
4323 6	10MM-HEX.SOCKET-BIT 30MM 6	1
4323 6 75	10MM-HEX.SOCKET-BIT 75MM 6	1
4323 7	10MM-HEX.SOCKET-BIT 30MM 7	1
4323 7 75	10MM-HEX.SOCKET-BIT 75MM 7	1
4323 8	10MM-HEX.SOCKET-BIT 30MM 8	1
4323 8 75	10MM-HEX.SOCKET-BIT 75MM 8	1
4323 10	10MM-HEX.SOCKET-BIT 30MM 10	1
4323 10 75	10MM-HEX.SOCKET-BIT 75MM 10	1
4323 12	10MM-HEX.SOCKET-BIT 30MM 12	1

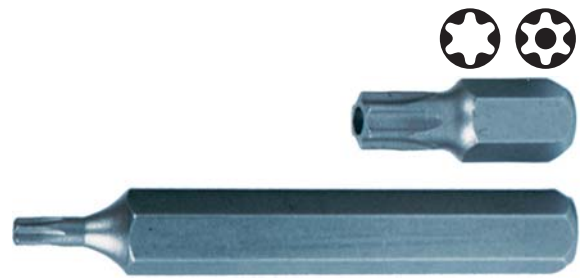
(Shaft mm / length mm / size)



Bit TX, 10 mm-Shaft

Article No.	Article Description	QTY
4320 10 30	10MM-TX-BIT 30MM TX10	1
4320 15 30	10MM-TX-BIT 30MM TX15	1
4320 20	10MM-TX-BIT W.THR.BIT30MM TX20	1
4320 20 30	10MM-TX-BIT 30MM TX20	1
4320 20 75	10MM-TX-BIT 75MM TX20	1
4320 25	10MM-TX-BIT W.THR.BIT 30MM TX25	1
4320 25 30	10MM-TX-BIT 30MM TX25	1
4320 25 75	10MM-TX-BIT 75MM TX25	1
4320 27	10MM-TX-BIT W.THR.B. 30MM TX27	1
4320 27 30	10MM-TX-BIT 30MM TX27	1
4320 27 75	10MM-TX-BIT 75MM TX27	1
4320 30	10MM-TX-BIT W.THR. 30MM TX30	1
4320 30 30	10MM-TX-BIT 30MM TX30	1
4320 30 75	10MM-TX-BIT 75MM TX30	1
4320 40	10MM-TX-BIT THR. 30MM TX40	1
4320 40 30	10MM-TX-BIT 30MM TX40	1
4320 40 75	10MM-TX-BIT 75MM TX40	1
4320 45	10MM-TX-BIT W. THR. 30MM TX45	1
4320 45 30	10MM-TX-BIT 30MM TX45	1
4320 45 75	10MM-TX-BIT 75MM TX45	1
4320 50	10MM-TX-BIT W.THRE. 30MM TX50	1
4320 50 30	10MM-TX-BIT 30MM TX50	1
4320 50 75	10MM-TX-BIT 75MM TX50	1
4320 55	10MM-TX-BIT W.THR. 30MM TX55	1
4320 55 30	10MM-TX-BIT 30MM TX55	1
4320 55 75	10MM-TX-BIT 75MM TX55	1
4320 60	10MM-TX-BIT W.THRE. 30MM TX60	1
4320 60 75	10MM-TX-BIT 75MM TX60	1

(Shaft mm / drill.thread = with head drilling hole / length mm / size TX)



Bit XZN, 10 mm-Shaft

Article No.	Article Description	QTY
4322 5	10MM-XZN-BIT 30MM XZN 5	1
4322 6	10MM-XZN-BIT 30MM XZN 6	1
4322 8	10MM-XZN-BIT 30MM XZN 8	1
4322 10	10MM-XZN-BIT 30MM XZN 10	1
4322 12	10MM-XZN-BIT 30MM XZN 12	1
4322 6 75	10MM-XZN-BIT 75MM XZN 6	1
4322 8 75	10MM-XZN-BIT 75MM XZN 8	1
4322 10 75	10MM-XZN-BIT 75MM XZN 10	1
4322 12 75	10MM-XZN-BIT 75MM XZN 12	1

(Shaft mm / length mm / XZN size)



Kraft Adapter for Bit-Intake, 11 mm

Article No.	Article Description	QTY
4361 12 11	1/2"BIT-ADAPT.F.11MM KRAFT-BIT	1



Kraft-Bit TX, 11 mm-Shaft

Article No.	Article Description	QTY
4395 30	11MM-TX-BIT 35MM TX30	1
4395 40	11MM-TX-BIT 35MM TX40	1
4395 45	11MM-TX-BIT 35MM TX45	1
4395 50	11MM-TX-BIT 35MM TX50	1
4395 55	11MM-TX-BIT 35MM TX55	1
4395 60	11MM-TX-BIT 35MM TX60	1

(Shaft mm / length mm / size)



Kraft Torsions Bit Set, 150 mm, 11mm shaft



- Suitable for impact screwdriver insert
- Bit holder with 1/2" drive and Quick-Lock-System
- Working length with bit holder: 183 mm
- Torsion effect of the bits enables protective loosening and tightening of seized screw connections
- 14-piece in plastic case Art. No. 4415 12 251 with VAROsoft tool deposit Art. No. 9026 728

Article No.	Article Description	QTY
4395 1	KRAFT-TORIONS BIT SET 150MM	1

Set consists of:

- 1x Art. No. 4395 1 1 1/2" Kraft-Bit-Holder 55 mm
- 1x Art. No. 4395 1 3 Kraft-Torsions-Bit PH 3 150 mm
- 1x Art. No. 4395 1 4 Kraft-Torsions-Bit PH 4 150 mm
- 1x Art. No. 4395 1 6 Kraft-Torsions-Bit hexagonal 6 150 mm
- 1x Art. No. 4395 1 7 Kraft-Torsions-Bit hexagonal 7 150 mm
- 1x Art. No. 4395 1 8 Kraft-Torsions-Bit hexagonal 8 150 mm
- 1x Art. No. 4395 1 10 Kraft-Torsions-Bit hexagonal 10 150 mm
- 1x Art. No. 4395 1 12 Kraft-Torsions-Bit hexagonal 12 150 mm
- 1x Art. No. 4395 1 30 Kraft-Torsions-Bit TX 30 150 mm
- 1x Art. No. 4395 1 40 Kraft-Torsions-Bit TX 40 150 mm
- 1x Art. No. 4395 1 45 Kraft-Torsions-Bit TX 45 150 mm
- 1x Art. No. 4395 1 50 Kraft-Torsions-Bit TX 50 150 mm
- 1x Art. No. 4395 1 55 Kraft-Torsions-Bit TX 55 150 mm
- 1x Art. No. 4395 1 60 Kraft-Torsions-Bit TX 60 150 mm



Kraft-Bit-Holder 1/2", 150/100 mm

- for 11 mm bits

Article No.	Article Description	QTY
4395 1 1	1/2" KRAFT-BIT-HOLDER 55MM	1



Kraft-Torsions-Bit, 150 mm, 11mm shaft



Article No.	Article Description	QTY
4395 1 3	KRAFT-TORSIONS BIT PH3 150MM	1
4395 1 4	KRAFT-TORSIONS BIT PH4 150MM	1
4395 1 6	KRAFT-TORSIONS BIT HEX 6 150MM	1
4395 1 7	KRAFT-TORSIONS BIT HEX 7 150MM	1
4395 1 8	KRAFT-TORSIONS BIT HEX 8 150MM	1
4395 1 10	KRAFT-TORSIONS BIT HEX10 150MM	1
4395 1 12	KRAFT-TORSIONS BIT HEX12 150MM	1
4395 1 30	KRAFT-TORSIONS BIT TX30 150MM	1
4395 1 40	KRAFT-TORSIONS BIT TX40 150MM	1
4395 1 45	KRAFT-TORSIONS BIT TX45 150MM	1
4395 1 50	KRAFT-TORSIONS BIT TX50 150MM	1
4395 1 55	KRAFT-TORSIONS BIT TX55 150MM	1
4395 1 60	KRAFT-TORSIONS BIT TX60 150MM	1
4395 12 6	KRAFT-TORSIONS BIT XZN 6 150MM	1
4395 12 8	KRAFT-TORSIONS BIT XZN 8 150MM	1
4395 12 10	KRAFT-TORSIONS BIT XZN10 150MM	1
4395 12 12	KRAFT-TORSIONS BIT XZN12 150MM	1



Kraft-Torsions-Bit-Set, 100 mm, 11 mm shaft

- Suitable for impact wrench insert
- Bit holder with 1/2" drive, with Quick-Lock System
- Working length with bit holder: 133 mm
- Torsion bit enables protective loosening and tightening of seized screw connections
- 18-piece in plastic case Art. No. 4415 12 251 with VAROsoft too deposit Art. No. 9026 730



Article No.	Article Description	QTY
4395 2	KRAFT-TORSION-BIT-SET 100MM	1

Contents:

- 1x Art. No. 4395 1 1 1/2" Kraft-Bit-Holder 55 mm
- 1x Art. No. 4395 2 3 Kraft-Torsions-Bit PH3 100 mm
- 1x Art. No. 4395 2 4 Kraft-Torsions-Bit PH4 100 mm
- 1x Art. No. 4395 2 6 Kraft-Torsions-Bit-Hex 6 100 mm
- 1x Art. No. 4395 2 7 Kraft-Torsions-Bit-Hex 7 100 mm
- 1x Art. No. 4395 2 8 Kraft-Torsions-Bit-Hex 8 100 mm
- 1x Art. No. 4395 2 10 Kraft-Torsions-Bit-Hex 10 100 mm
- 1x Art. No. 4395 2 12 Kraft-Torsions-Bit-I-Hex 12 100 mm
- 1x Art. No. 4395 2 30 Kraft-Torsions-Bit TX30 100 mm
- 1x Art. No. 4395 2 40 Kraft-Torsions-Bit TX40 100 mm
- 1x Art. No. 4395 2 45 Kraft-Torsions-Bit TX45 100 mm
- 1x Art. No. 4395 2 50 Kraft-Torsions-Bit TX50 100 mm
- 1x Art. No. 4395 2 55 Kraft-Torsions-Bit TX55 100 mm
- 1x Art. No. 4395 2 60 Kraft-Torsions-Bit TX60 100 mm
- 1x Art. No. 4395 22 6 Kraft-Torsions-Bit XZN6 100 mm
- 1x Art. No. 4395 22 8 Kraft-Torsions-Bit XZN8 100 mm
- 1x Art. No. 4395 22 10 Kraft-Torsions-Bit XZN10 100 mm
- 1x Art. No. 4395 22 12 Kraft-Torsions-Bit XZN12 100 mm



Impact torsion bit, 100 mm, 11 mm shaft



Article No.	Article Description	QTY
4395 2 3	KRAFT-TORSION-BIT PH3 100MM	1
4395 2 4	KRAFT-TORSION-BIT PH4 100MM	1
4395 2 6	KRAFT-TORSION-BIT HEX 6 100MM	1
4395 2 7	KRAFT-TORSION-BIT HEX 7 100MM	1
4395 2 8	KRAFT-TORSION-BIT HEX 8 100MM	1
4395 2 10	KRAFT-TORSION-BIT HEX 10 100MM	1
4395 2 12	KRAFT-TORSION-BIT HEX 12 100MM	1
4395 2 30	KRAFT-TORSION-BIT TX30 100MM	1
4395 2 40	KRAFT-TORSION-BIT TX40 100MM	1
4395 2 45	KRAFT-TORSION-BIT TX45 100MM	1
4395 2 50	KRAFT-TORSION-BIT TX50 100MM	1
4395 2 55	KRAFT-TORSION-BIT TX55 100MM	1
4395 2 60	KRAFT-TORSION-BIT TX60 100MM	1
4395 22 6	KRAFT-TORSION-BIT XZN6 100MM	1
4395 22 8	KRAFT-TORSION-BIT XZN8 100MM	1
4395 22 10	KRAFT-TORSION-BIT XZN10 100MM	1
4395 22 12	KRAFT-TORSION-BIT XZN12 100MM	1



Bit set for splined socket head screws



Article No.	Article Description	QTY
4353 91	5/16"SPLINED S.H.SCR.SET15PCE	1

Contents:

- Each 1x bit with 5/16" attachment: - short 38 mm: 5/6/7/8/10 - long 110 mm: 7/8/9/10
- Each 1x bit with 14 mm attachment: - short 38 mm: 12 - long 110 mm: 12/13/14
- 1x adapter 1/2" x 5/16" Art.no. 4361 12 516 1
- 1x adapter 1/2" x 14 mm Art.no. 4353 91 12 14



Splined socket head screw bit, short, 38 mm



Article No.	Article Description	QTY
4353 91 5	5/16"RIBE-BIT 5 38MM	1
4353 91 6	5/16"RIBE-BIT 6 38MM	1
4353 91 7	5/16"RIBE-BIT 7 38MM	1
4353 91 8	5/16"RIBE-BIT 8 38MM	1
4353 91 10	5/16"RIBE-BIT 10 38MM	1
4353 91 12	14MM RIBE-BIT 12 38MM	1



Splined socket head screw bit, long, 110 mm



Article No.	Article Description	QTY
4353 91 7 1	5/16"RIBE-BIT 7 110MM	1
4353 91 8 1	5/16"RIBE-BIT 8 110MM	1
4353 91 9 1	5/16"RIBE-BIT 9 110MM	1
4353 91 10 1	5/16"RIBE-BIT 10 110MM	1
4353 91 12 1	14MM RIBE-BIT 12 110MM	1
4353 91 13 1	14MM RIBE-BIT 13 110MM	1
4353 91 14 1	14MM RIBE-BIT 14 110MM	1



Kraft-Bit LS 5/16"

Article No.	Article Description	QTY
4390 1	5/16"HAND IMPACT WRENCH SET	1



Kraft-Bit PH 5/16" Cross Slot

Article No.	Article Description	QTY
4391 2	5/16"KRAFT-BIT PH2 32MM	1 z
4391 3	5/16"KRAFT-BIT PH3 32MM	1 z
4391 4	5/16"KRAFT-BIT PH4 32MM	1 z



Kraft-Bit LS 5/16"

Article No.	Article Description	QTY
4392 8	5/16"SLOTTED KRAFT-BIT 8X32MM	1
4392 9	5/16"SLOTTED KRAFT-BIT 9X32MM	1
4392 11	5/16"SLOTTED KRAFT-BIT 11X32MM	1
4392 12	5/16"SLOTTED KRAFT-BIT 12X32MM	1
4392 14	5/16"SLOTTED KRAFT-BIT 14X32MM	1



Kraft-Bit 5/16" Hexagon Socket

Article No.	Article Description	QTY
4393 5	5/16"HEX.SOCKET-BIT SW 5 32MM	1
4393 6	5/16"HEX.SOCKET-BIT SW 6 32MM	1 z
4393 8	5/16"HEX.SOCKET-BIT SW 8 32MM	1 z
4393 10	5/16"HEX.SOCKET-BIT SW10 32MM	1 z



Kraft-Bit 5/16" TX

Article No.	Article Description	QTY
4394 20	5/16"TX-KRAFT-BIT TX20 32MM	1
4394 25	5/16"TX-KRAFT-BIT TX25 32MM	1
4394 27	5/16"TX-KRAFT-BIT TX27 32MM	1
4394 30	5/16"TX-KRAFT-BIT TX30 32MM	1
4394 40	5/16"TX-KRAFT-BIT TX40 32MM	1



Mega-Pro Screwdriver 14 in 1

- Multiple screwdriver with 7 double bits
- Bit length: 50 mm



Article No.	Article Description	QTY
4210 3	MEGA-PRO SCREWDRIVER 14 IN 1	1

Contents:

- 1x Double blade PH1 x PH2
- 1x Double blade PZ1 x PZ2
- 1x Double blade PH3 x PZ3
- 1x Double blade TX10 x TX15
- 1x Double blade TX20 x TX25
- 1x Double blade TX27 x TX30
- 1x Double blade LS 4.5 x 5.5



Replacement Blades for Mega-Pro Screwdriver

Article No.	Article Description	QTY
4210 3 1 2	DOUBLE BLADE PZ1XPZ2	1
4210 3 3 3	DOUBLE BLADE PH3XPZ3	1
4210 3 01 02	DOUBLE BLADE PH1XPH2	1
4210 3 10 15	DOUBLE BLADE TX10XTX15	1
4210 3 20 25	DOUBLE BLADE TX20XTX25	1
4210 3 27 30	DOUBLE BLADE TX27XTX30	1
4210 3 45 55	DOUBLE BLADE 4.5X5.5	1

Bitmatic Screwdriver

Mechanism changes bits in seconds1. Pull back the handle2. Select the bit by turning the handle3. Push the handle forward4. The selected bit is immediately ready for use!

- High-quality construction
- Resistant against chemicals and impacts
- Comfortable anti-slipping handle
- Rotating front sleeve for fine uses of the screw
- Automatic-magazine Magnetic bit-tops
- Can be assembled individually by the user with 1/4" standard-bits, length 25 mm



Article No.	Article Description	QTY
4210 6	BITMATIC SCREWDRIVER	1

Contents:

- 1x PH 1/2/3
- 1x LS 0.65 x 3.1/0.80 x 4.8/1.0 x 6.3

Revolver Ratchet Screwdriver 1/4"

- Finely toothed with 72 teeth
- Switching ring left - firm - right
- Can be adjusted from turret grip to straight grip
- 2-component grip with case for 6 bits
- Magnetic bit intake 1/4"

Article No.	Article Description	QTY
4345 4	1/4"REVOLV.RATCHET SCREWDRIVER	1



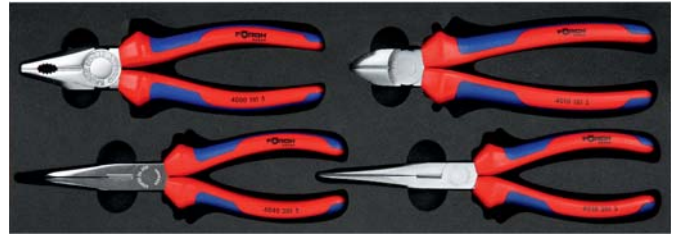
4-Piece VS-plier set **FÖRCH*******

- Ergonomic 2K soft-grip handle
- Manufacturer Knipex
- In VAROsoft system tray, Art.-No. 9026 724 1

Contents Art.-No. 4099V 04 1 5:

Art.-No.	Article Description	Quantity
4000 181 5	COMB.PLIERS KNIPEX 180MM 5*	1
4010 181 5	SIDE CUTTER KNIPEX 180MM 5*	1
4030 201 5	NOSE PLIERS STR.KNIPEX200MM5*	1
4040 201 5	NO.PLIER.CURV.KNIPEX200MM5*	1

Article No.	Article Description	QTY
4099V 04 1 5	VS-PLIER SET 4-PIECE 5*	1



Pliers Set **FÖRCH*******

- Ergonomic 2C-Softgripp-Handle (2C = two component)
- Art.-No. 4099V 04 5:**
- In VAROsoft system tray Art. No. 9026 724 1

Contents Art.-No. 4099V 04 5:

Art.-No.	Article Description	Quantity
4000 180 5	COMBI-PLIERS 180MM 5*	1
4010 180 5	SIDE CUTTER 180MM 5*	1
4030 205 5	FLAT-NOS.PLIERS STRAI.205MM 5*	1
4040 205 5	FLAT-NOS.PLIERS ANGL.205MM 5*	1

Article No.	Article Description	QTY
4099V 04 5	VS-PLIERS SET 4 5* 4-PIECE	1



Pliers Set

- Ergonomic 2C-Softgripp-Handle (2C = two component)

Art.-No. 4099V 03:

- In VAROsoft tool deposit Art. No. 9026 66

Art.-No. 4099 V 03 1:

- In VAROsoft tool deposit Art. No. 9026 619

Art.-No. 4099V 04:

- In VAROsoft tool deposit Art. No. 9026 724 1

Contents Art.-Nr. 4099V 03:

Art.-No.	Article Description	Quantity
4000 160	COMBINATION PLIERS 160MM	1
4010 160	SIDE CUTTER 160MM 5*	1
4030 200	FLAT-NOSED PL.STRAIGHT 200MM	1

Contents Art.-Nr. 4099V 04:

Art.-No.	Article Description	Quantity
4000 180	COMBINATION PLIERS 180MM	1
4010 180	SIDE CUTTER 180MM	1
4030 200	FLAT-NOSED PL.STRAIGHT 200MM	1
4040 200	FLAT NOSE.PLIERS ANGLED 200MM	1

Contents Art.-Nr. 4099 1:

Art.-No.	Article Description	Quantity
4000 180	COMBINATION PLIERS 180MM	1
4010 180	SIDE CUTTER 180MM	1
4030 200	FLAT-NOSED PL.STRAIGHT 200MM	1
4040 200	FLAT NOSE.PLIERS ANGLED 200MM	1

Article No.	Article Description	QTY
4099V 03	VS-PLIERS SET 1 3-PIECE	1
4099V 04	VS-PLIERS SET 4 4-PIECE	1
4099 1	PLIERS SET 4-PIECE	1



4099V 03



4099V 04

Combination Pliers Ergo **FÖRCH*******

- Integrated ring spanner for screws M8 to M10
- The ergonomic design enables a fatigue-free working
- With opening spring and locking lever
- Inductively hardened blade



Article No.	Article Description	QTY
4000 200 1 5	COMBI-PLIERS ERGO 200MM 5*	1 s

Knipex combination pliers **FÖRCH** ★★★★★

- With gripping zones for flat and round materials for versatile use
- With cutting edges for soft and hard wire
- Long cutting edges for thicker cables
- Cutting edges additionally induction-hardened, cutting edge hardness approximately 60 HRC
- Special tool steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface



Technical Data

Article No.	Article Description	QTY
4000 161 5	COMB.PLIERS KNIPEX 160MM 5*	1 s
4000 181 5	COMB.PLIERS KNIPEX 180MM 5*	1 s
4000 201 5	COMB.PLIERS KNIPEX 200MM 5*	1 s

Length	Weight	Cutting capacity:		
		Medium hard wire	Hard wire	Stranded copper cable
160 mm	222 g	Ø 3.1 mm	Ø 2.0 mm	Ø 10.0 mm (16 mm ²)
180 mm	254 g	Ø 3.4 mm	Ø 2.2 mm	Ø 12.0 mm (16 mm ²)
200 mm	324 g	Ø 3.8 mm	Ø 2.5 mm	Ø 13.0 mm (16 mm ²)

Combination Pliers **FÖRCH** ★★★★★

- Integrated ring spanner for screws M8 to M10
- Inductively hardened blade

Article No.	Article Description	QTY
4000 160 5	COMBI-PLIERS 160MM 5*	1 s
4000 180 5	COMBI-PLIERS 180MM 5*	1 s
4000 200 5	COMBI-PLIERS 200MM 5*	1 s



Combination Pliers

- High-precision cutting
- Wear resistant clamping jaws

Article No.	Article Description	QTY
4000 160	COMBINATION PLIERS 160MM	1 s
4000 180	COMBINATION PLIERS 180MM	1 s
4000 200	COMBINATION PLIERS 200MM	1 s



Power Side Cutter **FÖRCH**★★★★★

- induction-hardened precision cutting edges 62HRC
- ergonomic 2-component handle
- length: 200 mm



Article No.	Article Description	QTY
4020 200 1 5	POWER SIDE CUTTER 200MM 5*	1 s

Your Advantage / Benefit

- new leverage transmission means over 40 % less effort
- 2-component, soft-grip handles for slip-proof work
- special tool steel for increased durability

Application

- for cutting hard wires and piano wire



new leverage transmission

Related Products

- "Theta" safety goggles
Art.-No. 5400 908 1



- Fine Knitted Gloves Duo Grip
Art.-No. 5405 117 7 – 10



Electronic Super Knips Knipex FÖRCH *****

- Precision pliers for fine cutting operations, such as in electronics and precision engineering
- Ground, very sharp cutting edges without bevel for flush cutting
- Precisely shaped tips cut even flat-lying wires from Ø 0.2 mm
- Joint with stainless steel rivet
- Cutting edges additionally induction-hardened
- Extremely easy cutting for fatigue-free work
- With opening spring and opening limiter
- INOX – stainless steel
- Cutting edge hardness approx. 54 HRC

Art.-No. 4010 125 5:

- Cutting edge additionally induction-hardened, cutting edge hardness approx. 64 HRC
- Also suitable for cutting glass fibre cables (fibre optic)

Article No.	Article Description	QTY
4010 125 5	ELECTR.SUPER KNIPS 125MM 5*	1 s
4010 125 1 5	ELECTR.SUPER KNIPS1 125MM 5*	1 s



4010 125 5



4010 125 1 5

Knipex TwinForce high lev.diag.cutters FÖRCH *****

- The superior high-leverage diagonal cutters with patented double-joint
- Ideal transmission of force due to double-jointed design
- Cuts 50% more easily than the proven Knipex high-leverage diagonal cutters
- Reliably cuts all types of wire, including steel tape
- For rough and very fine cutting
- Low cutting impact: Easy on the hand, relieves tension on muscles and tendons
- High degree of stability and backlash-free due to forged and precisely milled joint axes
- Chrome vanadium heavy-duty steel, forged, oil-hardened
- Polished cutting head

Article No.	Article Description	QTY
4020 180 1 5	DIAG.CUTTER KNIPEX TF180MM 5*	1



Technical Data

Length:	180 mm
Weight:	280 g
Cutting capacity:	
- soft wire:	Ø 5.5 mm
- medium hard wire:	Ø 4.6 mm
- piano wire:	Ø 3.0 mm

Knipex high-leverage diagonal cutters **FÖRCH*******

- For very tough, continuous use
- High cutting performance with minimum effort due to optimum coordination of cutting edge angle and transmission ratio
- Precision cutting edges additionally induction-hardened, (cutting edge hardness approx. 64 HRC) for all types of wire including piano wire
- Chrome vanadium heavy-duty steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface



Technical Data

Article No.	Article Description	QTY
4020 181 5	DIAGONAL CUTTER KNIPEX180MM 5*	1 s
4020 201 5	DIAGONAL CUTTER KNIPEX200MM 5*	1 s

Length	Weight	Cutting capacity:		
		Medium hard wire	Hard wire	Piano wire
180 mm	270 g	Ø 3.8 mm	Ø 2.7 mm	Ø 2.2 mm
200 mm	303 g	Ø 4.2 mm	Ø 3.0 mm	Ø 2.5 mm

Kraft-Side Cutter **FÖRCH*******

- Anti-slip function - prevents slipping out of cables during cutting due to undulated profile
- Optimum lever transmission for easy and less tiring cutting

Article No.	Article Description	QTY
4020 180 5	KRAFT SIDE CUTTER 180MM 5*	1 s
4020 200 5	KRAFT SIDE CUTTER 200MM 5*	1 s



Kraft - Side Cutter

- Extended design makes powerful cutting possible
- High-quality steel with extremely solid cutting edge

Article No.	Article Description	QTY
4020 165	KRAFT SIDE CUTTER 165MM	1 s
4020 200	KRAFT SIDE CUTTER 200MM	1 s



Kraft - End Cutting Pliers

- Transverse located cutting edges

Article No.	Article Description	QTY
4092 160	END CUTTING PLIERS 160MM	1 s
4092 200	END CUTTING PLIERS 200MM	1 s



Knipex Side Cutter with Opening Spring

- High cutting performance with less strain
- Inductively hardened blades
- Opening spring can be activated, if necessary

Article No.	Article Description	QTY
4020 180	KNIPEX SIDE CUT.W.OP.SPR.180MM	1 s



Knipex diagonal cutters FORCH *****

- High quality material and precise workmanship for long service life
- Precision cutting edges for soft and hard wire
- Cuts thin copper wires cleanly, even at the cutting edge tips
- Cutting edges additionally induction-hardened, cutting edge hardness approx. 62 HRC
- Narrow head style for use in confined working areas
- Vanadium electric steel; forged, oil-hardened
- Corrosion protection through hard chrome-plated surface



Article No.	Article Description	QTY
4010 140 5	DIAGONAL CUTTER KNIPEX 140MM5*	1 s
4010 161 5	DIAGONAL CUTTER KNIPEX 160MM5*	1 s
4010 181 5	SIDE CUTTER KNIPEX 180MM 5*	1 s

Technical Data

Length	Weight	Cutting capacity:		
		Soft wire	Medium hard wire	Hard wire
140 mm	154 g	Ø 4.0 mm	Ø 2.5 mm	Ø 1.8 mm
160 mm	207 g	Ø 4.0 mm	Ø 2.8 mm	Ø 2.0 mm
180 mm	246 g	Ø 4.0 mm	Ø 3.0 mm	Ø 2.5 mm

Side Cutter FORCH *****

- Anti-slip function - prevents slipping out of cables during cutting due to undulated profile
- Optimum lever transmission for easy and fatigue free cutting

Article No.	Article Description	QTY
4010 145 5	SIDE CUTTER 145MM 5*	1 s
4010 160 5	SIDE CUTTER 160MM 5*	1 s
4010 180 5	SIDE CUTTER 180MM 5*	1 s



Side Cutter

- High-quality steel with extremely solid cutting edge

Article No.	Article Description	QTY
4010 145	SIDE CUTTER 140MM 5*	1 s
4010 160	SIDE CUTTER 160MM 5*	1 s
4010 180	SIDE CUTTER 180MM	1 s



Flat-Nosed Pliers Ergo FORCH *****

- Integrated ring spanner for screws M8 to M10
- The ergonomic design enables less tiring working
- With opening spring and locking lever
- Inductively hardened cutting

Article No.	Article Description	QTY
4040 200 1 5	FLAT-NOS. PLIERS ERGO 200MM 5*	1 s



Knipex half-round pliers **FÖRCH*******

- Suitable for finer gripping and cutting work
- Pointed, half-round jaws
- Knurled gripping surfaces
- With cutting edges for soft, medium-hard and hard wire
- Cutting edges additionally induction-hardened, cutting edge hardness approx. 61 HRC
- Vanadium electric steel; forged, oil-hardened
- Corrosion protection through hard chrome-plated surface

Art.-No. 4040 201 5:

- 400 mm; angle



4030 161 5



4040 201 5

Article No.	Article Description	QTY
4030 161 5	HALF ROUND PLIER KNIPEX160MM5*	1 s
4030 201 5	NOSE PLIERS STR.KNIPEX200MM5*	1 s
4040 201 5	NO.PLIER.CURV.KNIPEX200MM5*	1 s

Technical Data

Pliers form	Length	Weight	Cutting capacity:	
			Medium hard wire	Hard wire
straight	160 mm	1,600 g	Ø 2.5 mm	Ø 1.6 mm
straight	200 mm	198 g	Ø 3.2 mm	Ø 2.2 mm
curved 40°	200 mm	199 g	Ø 3.2 mm	Ø 2.2 mm

Flat-Nosed Pliers **FÖRCH*******

- Inductively hardened cutting

Art. No. 4040 205 5:

- 45° angle

Article No.	Article Description	QTY
4030 170 5	FLAT-NOS.PLIERS STRA.170MM 5*	1 s
4030 205 5	FLAT-NOS.PLIERS STRAI.205MM 5*	1 s
4040 205 5	FLAT-NOS.PLIERS ANGL.205MM 5*	1 s



Flat-Nosed Pliers

Art. No. 4040 200:

- 45° angle

Article No.	Article Description	QTY
4030 160	FLAT-NOSED PL.STRAIGHT 160MM	1 s
4030 200	FLAT-NOSED PL.STRAIGHT 200MM	1 s
4040 200	FLAT NOSE.PLIERS ANGLED 200MM	1 s



Knipex stripping pliers **FÖRCH*******

- For single, multiple and fine stranded conductors with plastic or rubber insulation max. 2.5 mm or 10 mm; conductor cross-section
- Simple adjustment to the required solid or stranded wire diameter with knurled screw and lock nut
- Special tool steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface
- Length: 160 mm

Article No.	Article Description	QTY
4070 161 5	STRIPPING PLIER KNIPEX 160MM5*	1 s



Insulation Pliers **FÖRCH*******

- With set screw for adjusting the required wire or stranded diameter, max. Ø 5 mm or 10 mm² conductor cross section

Article No.	Article Description	QTY
4070 160 5	INSULATION PLIERS 160MM 5*	1 s



Insulation Pliers

- With set screw for adjusting the required wire or stranded diameter, max. Ø 5 mm or 10 mm² conductor cross section

Article No.	Article Description	QTY
4070 160	INSULATION PLIERS 160MM	1 s



Electrician's Needle Nosed Pliers

- 4 functions: gripping, cutting, stripping, crimping
- Strips conductors from 1.5 mm² to 2.5 mm²

Article No.	Article Description	QTY
3790 160	ELEC.NEEDLE-NOS./INS.PL. 160MM	1 s



Electro-Multifunctional Pliers **FÖRCH*******

- Ergonomic anti-slip soft handle
- 3 functions: cutting, stripping, pressing
- Inductively hardened precision cutting for finest wires
- Stripping of 1.5 mm² to 2.5 mm² for single and stranded wires

Article No.	Article Description	QTY
4010 190 5	ELEC.SIDE/INS.PLIERS 190MM 5*	1 s



Spark Plug Cap Pliers

- With rippled round jaws for easy removal of spark plugs

Article No.	Article Description	QTY
4093 200	SPARK PLUG PLIERS 200MM	1 s



Professional Flat Nosed Pliers - XXL

- Extra long
- 290 mm length makes deep clampings possible
- Straight, 45° and 90°
- With profile grinding on the top for a safe grip
- 110 mm extended shaft to the handle
- Special steel, chrome-plated

Article No.	Article Description	QTY
4050 290 3	FL.NOSED PLIERS SET XXL 3-PART	1
4050 290 00	FLAT NOSED PLIERS XXL STRAIGHT	1 s
4050 290 45	FLAT NOSED PLIERS XXL 45°ANGLE	1 s
4050 290 90	FLAT NOSED PLIERS XXL 90°ANGLE	1 s

Art. No. 4050 290 3:

- 1x Art. No. 4050 290 00 Flat nosed pliers XXL straight
- 1x Art. No. 4050 290 45 Flat nosed pliers XXL 45° angle
- 1x Art. No. 4050 290 90 Flat nosed pliers XXL 90° angle



Double joint assembly pliers

- extra long design
- with double joint
- extremely narrow design
- for hard to reach places such as instrument panels, engine compartment, etc.
- serrated design
- max opening of the points 65 mm
- roughened, rubberised handle
- length straight design: 335 mm
- length curved design 45°: 320 mm

Article No.	Article Description	QTY
4050 300	DOUB.JOINT ASSEMBLY PLIERS 45°	1 s
4050 345	DOUB.JOINT ASSEM.PLIERS STRAIG	1 s

Contents Art.-No. 4050 350 each 1x:

- Art.-No. 4050 300: double joint assembly pliers 45°
- Art.-No. 4050 345: double joint assembly pliers, straight



Magnet - Lifter

- Chrome-plated
- Flexible

Article No.	Article Description	QTY
4755 500	MAGNET LIFTER 6/460MM 500G	1
4755 1000	MAGNET LIFTER 9/460MM 1000G	1
4755 1800	MAGNET LIFTER 12/520MM 1800G	1
4755 3000	MAGNET LIFTER 16/520MM 3000G	1

(Ø / length / lifting power)



Telescopic - Magnet Lifter

- Ball pen format, lifting power 500 g
- With cleaning needle for spray nozzles
- Length min/max: 130/650 mm

Article No.	Article Description	QTY
4755 500 1	TELESCOPE-MAGNET LIFTER 500G	1



Magnets

- Magnets with threaded bush (magnetic grip)
- Universally applicable for moulded parts, tools and as a gripping element
- Acid-resistant

Technical Data

Art.-No.	Diameter	Thread	Holding force in N
4755 16 1	16 mm	-	20
4755 20 2	20 mm	M3	30
4755 36 2	36 mm	M4	80

Article No.	Article Description	QTY
4755 16 1	MAGNETS WITHOUT THREAD 16MM	10
4755 20 2	MAGNETS WITH THREAD BUSH 20MM	10
4755 36 2	MAGNETS WITH THREAD BUSH 36MM	10



4755 16 1

4755 20 2

4755 36 2

Telescopic Mirror with Joint

- With double ball-and-socket joint, can be swivelled to any direction
- Length min/max: 200/700 mm, mirror-Ø 40 mm
- With breast pocket clip

Article No.	Article Description	QTY
4755 1	TELESC.MIRROR W.JOINT Ø40MM	1



Claw Grip **FÖRCH*******

- For clawing small and also non-magnetic parts e.g. plastic rivets, electronic elements etc.
- Ideal for areas which are difficult to access such as engine compartment, doors etc.
- 3 hardened claws with max diameter of 20 mm
- Flexible, remains in the required twisted position (swan-neck)
- Chrome-plated surface
- Length: 500 mm, shafts-Ø 8 mm

Article No.	Article Description	QTY
4755 500 2	CLAW GRIP 500MM 5*	1



VDE Combination Pliers Ergo **FÖRCH*******

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Integrated ring spanner for screws M8 to M10
- The ergonomic design enables a fatigue free working
- With opening spring and locking lever
- Inductively hardened blade

Article No.	Article Description	QTY
4002 200 5	VDE COMBI.PLIERS ERGO 200MM 5*	1 s



Knipex VDE combination pliers **FÖRCH*******

- With gripping zones for flat and round materials for versatile use
- With cutting edges for soft and hard wire
- Long cutting edges for thicker cables
- Cutting edges additionally induction-hardened, cutting edge hardness approximately 60 HRC
- Special tool steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface

Article No.	Article Description	QTY
4002 166 5	VDE COMB.PLIERS KNIPEX 160MM5*	1
4002 181 5	VDE COMB.PLIERS KNIPEX 180MM5*	1



VDE Combination Pliers **FÖRCH*******

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Integrated ring spanner for screws M8 to M10
- Inductively hardened blade

Article No.	Article Description	QTY
4002 165 5	VDE-COMBINAT. PLIERS 165MM 5*	1 s
4002 185 5	VDE-COMBINAT. PLIERS 185MM 5*	1 s



VDE-Combination Pliers

- Allowed for workings at a voltage up to AC 1000 V (alternating current) and resp. DC 1500V (direct current)
- Tested according to IEC 900 VDE 0680 part 201
- DIN 5244 / ISO 5746
- Precision cutting for all wires, induction hardened, approx. 56 - 60 HRC

Article No.	Article Description	QTY
4002 165	VDE-COMBINATION PLIERS 165MM	1 s
4002 185	VDE-COMBINATION PLIERS 185MM	1 s



Combination pliers, 2-way insulation

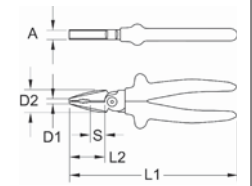
- In compliance with DIN ISO 5746
- Dipped insulation as per DIN EN 60900
- Also suitable for hard wires
- Extra heavy design
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4002 1 160	COM.PLIERS PART.ISOL.160MM	1
4002 1 185	COM.PLIERS PART.ISOL.185MM	1
4002 1 205	COM.PLIERS PART.ISOL.205MM	1
4002 1 250	COM.PLIERS PART.ISOL.250MM	1

Technical Data

A	D1	D2	L1	L2	S
mm	mm	mm	mm	mm	mm
8,5	6,0	25,0	160,0	36,5	13,0
11,0	7,5	28,0	185,0	40,0	16,5
11,5	8,0	28,0	205,0	43,0	18,0
13,0	8,0	35,0	250,0	53,0	21,0



Combination pliers, full 2-way insulation

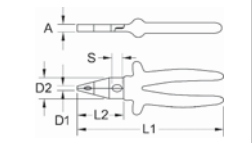
- In compliance with DIN ISO 5244
- Dipped insulation as per DIN EN 60900
- With coated working head
- Also suitable for hard wires
- Extra heavy design
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4002 2 185	COM.PLIERS FULL.ISOL.185MM	1
4002 2 205	COM.PLIERS FULL.ISOL.205MM	1

Technical Data

A	D1	D2	L1	mm	S
mm	mm	mm	mm	mm	mm
16,0	8,0	30,0	185,0	38,0	16,0
16,0	8,5	32,5	205,0	44,0	18,5

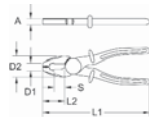


Plastic combination pliers

- Insulated as per DIN EN 60900
- With inserted cutter
- Made from extremely hard plastic

Technical Data

A	D1	D2	L1	L2	S
mm	mm	mm	mm	mm	mm
15,0	15,0	37,0	200,0	39,0	14,0



Article No.	Article Description	QTY
4997 4 200	PLAST.COMBIN.PLIERS 200MM	1



Flat pliers, 2-way insulation

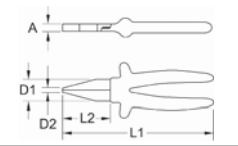
- In compliance with DIN/ISO 5745
- Dipped insulation as per DIN EN 60900
- Short and powerful jaws
- Toothed design
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4032 1 160	FL.PLIE.PART.ISOL.50/160MM	1
4032 1 160 1	FL.PLIE.PART.ISOL.34/160MM	1

Technical Data

A1	A2	D1	D2	L1
mm	mm	mm	mm	mm
9,0	-	17,0	4,5	160,0
8,5	5,5	15,0	3,5	160,0



Flat pliers, full 2-way insulation

- In compliance with DIN/ISO 5745
- insulation as per DIN EN 60900
- With coated working head
- Short and powerful jaws
- Toothed design
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4032 1 160 2	FL.PLIE.FULL.ISOL.36/160MM	1

Technical Data

A1	A2	D1	D2	L1	L2
mm	mm	mm	mm	mm	mm
11,0	11,0	19,0	5,0	160,0	36,0



Flat pliers, plastic

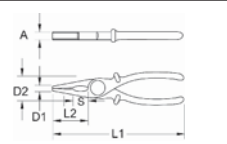
- Insulated as per DIN EN 60900
 - Made from extremely hard plastic
- Art. no. 4997 4 1 190:**
- With integrated cutter



Article No.	Article Description	QTY
4997 4 190	FLAT PLIERS 190MM	1
4997 4 190 1	FL.PLIERS W. CUTTER 190MM	1

Technical Data

A	D1	D2	L1	L2	S
mm	mm	mm	mm	mm	mm
9,0	6,0	32,0	200,0	55,0	-
9,0	6,0	32,0	190,0	55,0	14,0



Flat pliers, plastic, insulated

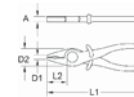
- Insulated as per DIN EN 60900
- Suitable for mounting and locking meters
- Made from extremely hard plastic



Article No.	Article Description	QTY
4997 4 180	HARD PLAST.PLIER 180MM	1

Technical Data

A	D1	D2	L1	L2
mm	mm	mm	mm	mm
11,0	10,0	38,0	180,0	37,0



Flat gripping pliers, fully/partially 2-way in

- In compliance with DIN/ISO 5745
- Dipped insulation as per DIN EN 60900
- With flat, smooth gripping jaws
- Rounded edges
- Matt chrome finish
- Special tool steel

Art. no. 4032 1 200 1:

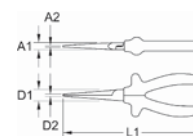
- With coated working head



Article No.	Article Description	QTY
4032 1 200	GRIP PLIER.PART.ISOL.200MM	1
4032 1 200 1	GRIP PLIER.FULL.ISOL.200MM	1

Technical Data

A1	A2	D1	D2	L1
mm	mm	mm	mm	mm
7,5	6,5	19,0	4,5	200
7,5	6,5	17,0	4,5	200



Knipex VDE half-round pliers **FÖRCH*******

- Heavy-duty, elastic precision points
- Half-round, long jaws
- Knurled gripping surfaces
- With cutting edges for medium-hard wire Ø 3.2 mm and hard wire 2.2 mm
- Cutting edges additionally induction-hardened, cutting edge hardness approx. 61 HRC
- Vanadium electric steel; forged, oil-hardened
- Corrosion protection through hard chrome-plated surface
- Weight: 206 g
- Length: 200 mm

Art.-No. 4032 201 5:

- straight

Art.-No. 4042 201 5:

- curved 40°



4032 201 5



4042 201 5

Article No.	Article Description	QTY
4032 201 5	VDE HALF-R.PLI.KNIPEX 200MM 5*	1
4042 201 5	VDE CURV.PLIERS KNIPEX 200MM5*	1

VDE-Long Nose Pliers **FÖRCH*******

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Integrated ring spanner for screws M8 to M10
- Inductively hardened blade

Art. No. 4032 205 5:

- Straight

Art. No. 4042 205 5:

- 45° angled



4032 205 5



4042 205 5

Article No.	Article Description	QTY
4032 205 5	VDE-LONG NOSE PL.STRAI.205MM5*	1 s
4042 205 5	VDE-LONG NOSE PL.ANGL.205MM 5*	1 s

VDE-Long Nose Pliers with Edge

- Allows for workings at a voltage up to AC 1,000 V (alternating current) or DC 1,500V (direct current)
- Tested according to IEC 900 VDE 0680 part 201
- DIN 5236 - Form A bzw. B - ISO 5745
- Flat round jaws with burner port for holding nuts, pins etc.
- Ridged jaws
- Precision cutting, inductive, hardened, approx . 60 HRC

Art.-No. 4032 200:

- Straight

Art.-No. 4042 200:

- 45° angled



4032 200



4042 200

Article No.	Article Description	QTY
4032 200	VDE-LONGNOSEPLIE.STRAIGHT200MM	1 s
4042 200	VDE-LONGNOSEPLIERS ANGL.200MM	1 s

Bowed flat round pliers, 2-way insulation

- In compliance with DIN/ISO 5745
- Dipped insulation as per DIN EN 60900
- Bowed jaws
- Suitable for soft and medium-hard wire
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel

Art.-No. 4032 4 200 1:

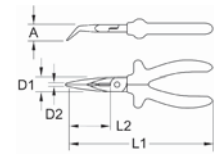
- With coated working head



Technical Data

Article No.	Article Description	QTY
4032 4 160	BENT HA-RO.PL.PAR.ISOL.160	1
4032 4 200	BENT HA-RO.PL.PAR.ISOL.200	1
4032 4 200 1	BENT HA-RO.PL.FUL.ISOL.200	1

A	D1	D2	L1	L2
mm	mm	mm	mm	mm
12,0	5,0	19,0	200	79,0
9,5	17,0	4,0	200	78,0
9,5	15,5	4,0	160	51,0



Flat round pliers, 2-way insulation

- In compliance with DIN/ISO 5745
- Dipped insulation as per DIN EN 60900
- Long jaws
- Suitable for soft and medium-hard wire
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel

Art.-No. 4032 3 160 1 and 4032 3 200 1:

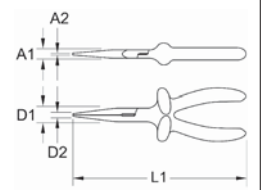
- With coated working head



Technical Data

Article No.	Article Description	QTY
4032 3 160	HALF-ROUND.PL.PAR.ISOL.160	1
4032 3 160 1	HALF-ROUND.PL.FUL.ISOL.160	1
4032 3 200	HALF-ROUND.PL.PAR.ISOL.200	1
4032 3 200 1	HALF-ROUND.PL.FUL.ISOL.200	1

A1	A2	D1	D2	L1
mm	mm	mm	mm	mm
10,0	3,5	17,5	4,0	160,0
10,5	3,5	18,0	5,0	200,0
9,5	2,5	16,0	4,0	200,0
9,0	2,0	15,5	3,0	160,0



VDE-Round Nose Pliers

- Allows for workings at a voltage up to AC 1000V (alternating current) or DC 1500V (direct current)
- Tested according to IEC 900 VDE 0680 part 201
- DIN 5257 - Form B / ISO 5745
- Short, rounded jaws, finely ridged
- For bending wires and rings

Article No.	Article Description	QTY
4046 160	VDE-ROUNDNOSEPLIERS 160MM	1 s



Round pliers, 2-way insulation

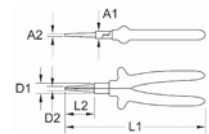
- In compliance with DIN/ISO 5745
- Dipped insulation as per DIN EN 60900
- With round, short and powerful jaws
- With smooth tips
- Toothed design
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4046 1 160	RO.NOSE-PLI.PAR.ISOL.160MM	1
4046 2 160	LARG.NO.PLI.PAR.ISOL.160MM	1

Technical Data

A1	A2	D1	D2	L1	L2
mm	mm	mm	mm	mm	mm
10,0	3,5	14,0	6,0	160,0	33,0
9,0	2,5	14,0	5,5	160,0	47,5



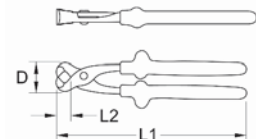
Monier pliers, 2-way insulation, 1,000 V

- Dipped insulation as per DIN / EN 60900
- For soft wire
- For drilling and cutting connecting wire
- With inductively hardened precision cutting
- Phosphated
- Special tool steel



Technical Data

L1	L2	S
mm	mm	mm
250.0	16.0	25.0



Article No.	Article Description	QTY
4012 3 250	MOUNT.PLIER PAR.ISOL.250MM	1

Knipex VDE water pump pliers **FÖRCH*******

- Better performance and comfort compared to conventional water pump pliers of the same length: 9-notch adjustment positioning for 30 % more gripping capacity
- Good access to the workpiece due to slim size of head and joint area
- Self-locking on pipes and nuts: no slipping on the workpiece as well as low handforce requirement
- Gripping surfaces with special hardened teeth, tooth hardness approx. 61 HRC: low wear ensures long-term secure gripping
- Box-joint design: high stability due to double guide
- Guard prevents pinch injuries
- Chrome vanadium electric steel, forged, oil-hardened



Article No.	Article Description	QTY
4650 252 5	VDE WATER PUMP KNIPEX 200MM 5*	1

Technical Data

Maximum pipe	Maximum pipe	Maximum width across flats	Length	Weight
2 inches	50 mm	46 mm	250 mm	374 g

VDE-Waterpump Pliers **FÖRCH*******

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Gripping claws double toothed and inductively hardened



Article No.	Article Description	QTY
4650 240 5	VDE-WATERPUMP PLIERS 240MM 5*	1 s

Water pump pliers, 2-way insulation

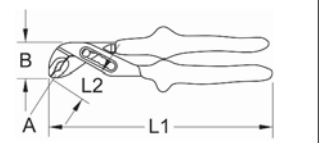
- In compliance with DIN/ISO 8976
- Dipped insulation as per DIN EN 60900
- Toothed gripping surfaces
- Box joint with thread roll
- Optimal transmission of force
- With serrated gripping face
- With clamping protection
- With inductively hardened gripping surfaces
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4651 1 240	WAT.PU.PLIE.PART.ISO.240MM	1
4651 1 300	WAT.PU.PLIE.PART.ISO.300MM	1

Technical Data

A	B	L1	L2
mm	mm	mm	mm
39,0	35,0	240,0	51,0
65,0	47,0	300,0	65,0



Water pump pliers, thread roll, 2-way ins.

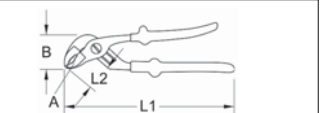
- In compliance with DIN/ISO 8976
- Dipped insulation as per DIN EN 60900
- Toothed gripping surfaces
- Box joint with thread roll
- Optimal transmission of force
- With serrated gripping face
- With clamping protection
- With inductively hardened gripping surfaces
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4650 1 260	WAT.PU.PLIE.PART.ISO.260MM	1

Technical Data

A	B	L1	L2
mm	mm	mm	mm
54,0	56,0	260,0	35,0



Knipex VDE insulation strippers **FÖRCH*******

- Certified to IEC 60900 DIN EN 60900
- Approved for work under voltages up to 1000 V AC (alternating current) or DC 1500 V (direct current)
- Insulated with multi-component grips, VDE tested
- For single, multiple and fine stranded conductors with plastic or rubber insulation max. 5 mm or 10 mm; conductor cross-section
- Simple adjustment to the required solid or stranded wire diameter with knurled screw and lock nut
- Special tool steel, forged, oil-hardened
- Weight: 166 g
- Length: 160 mm



Article No.	Article Description	QTY
4072 161 5	VDE INS.STRIPP.KNIPEX 160MM 5*	1

VDE-Insulation Pliers **FÖRCH*******

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- With set screw for adjusting the required wire or strand diameter, max. 5 mm Ø or 10 mm² conductor cross section



Article No.	Article Description	QTY
4072 160 5	VDE DE-ISOLAT.PLIERS 160MM 5*	1 s

VDE-Cable Stripper

- Allows for workings at a voltage up to AC 1000 V (alternating current) or DC 1500V (direct current)
- Tested according to IEC 900 VDE 0680 part 201
- With screw to adjust to the necessary wire or cable diameter, max. 5 mm Ø or 10 mm² cable diameter



Article No.	Article Description	QTY
4072 160	VDE-CABLE STRIPPER 160MM	1 s

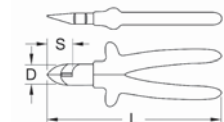
Lead sealing pliers, 2-way insulation

- Dipped insulation as per DIN/EN 60900
- With removable inserts
- Combines with side cutter
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4012 5 160	PLOMBEZA PART.ISOL.160MM	1

Technical Data		
D	L	S
mm	mm	mm
20,0	160,0	15,0



Cable-stripping pliers, 2-way insulation

- In compliance with DIN/ISO 5232
- Dipped insulation as per DIN EN 60900
- With opening restriction
- With adjusting screw and spring
- For wires from 0.8 - 6.0 mm²;
- Matt chrome finish
- Special tool steel

Art.-No. 4072 2 160:

- Self-regulating
- With removable blades
- For wires from 0.5 - 5.0 mm²;
- With cutting hole for severing cables and stranded wires
- Matt chrome finish

Art.-No. 4072 3 160:

- With coated working head



4072 1 160



4072 2 160

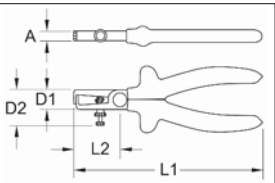


4072 3 160

Article No.	Article Description	QTY
4072 1 160	DE-ISOL..PLIE.PART.ISOL.160	1
4072 2 160	DE-ISOL..PLIE.PART.ISOL.160	1
4072 3 160	DE-ISOL..PLIE.FULL.ISOL.160	1

Technical Data

A	D1	D2	L1	L2
mm	mm	mm	mm	mm
9,5	18,5	31,5	160,0	44,0
10,5	28,5	47,5	160,0	20,0
11,0	18,5	20,0	160,0	34,0



VDE electro-multi function pliers FORCH *****

- approved for working with voltage up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- tested according to IEC 60900
- ergonomic non-slip soft grip
- 3 functions: cutting, removing insulation, grouting
- inductively toughened precision cut for finest wires
- removing insulation of 1.5 mm² to 2.5 mm² for single and multiple strand conductors



Article No.	Article Description	QTY
4012 190 5	VDE ELEC.MULT.FUNCT.PLI190MM5*	1 s

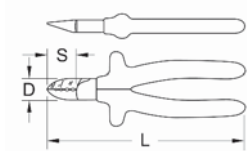
Electrical multi-function pliers, 2-way insula

- Dipped insulation as per DIN/EN 60900
- For cutting, stripping and pressing
- Stripping hole for wires from 1.5 mm²; + 2.5 mm²;
- For pressing insulated cable lugs of Ø 1.5 mm + 2.5 mm
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4012 4 175	EL.SIDE/DE-ISOL.PLIER170MM	1

Technical Data		
D	L	S
mm	mm	mm
22,0	175,0	27,0



VDE 6-in-1 Multipurpose Pliers **FÖRCH*******

- Multipurpose pliers for electrical installation
- Stripping holes for cables 0.75 - 1.5 mm² and 2.5 mm²
- Crimp teeth for ferrules 0.5 - 2.5 mm²
- Cable cutter with precision blades (induction hardened) for Cu and Al cables up to 5 x 2.5 mm² / Ø 15 mm
- Screwed hinge: precise pliers movement without play
- Dip-insulated, 2-component handle
- VDE approved as per: IEC 60900 and DIN EN 60900

Your Advantage / Benefit

- 6 functions in one pliers
- Smooth jaws at the tip for non-damaging grip on single cores; profiled gripping surfaces and burner hole for gripping flat and round material
- Sharp outer edge to the jaws for cleaning up the wall junction boxes and deburring through-holes
- Slim design for easy use

Application

- For gripping flat and round material, bending, deburring, cable cutting, stripping and crimping ferrules



Article No.	Article Description	QTY
4002 6 200	VDE 6-IN-1 MULTIPURP.PLIERS 5*	1

Related Products

- **Cavity Wall Switch and Junction Box**
Art.-No. 8436 47 68



- **Connect. Term.Release**
Art.-No. 8450 4 3



- **Set of Multicore Cable End, insulated**
Art.-No. 3719 3713



VDE Stripping Pliers 3 in 1

- Test standard: IEC 60900: 2012
- For working in the area of electrically live parts up to 1,000 V AC
- Three processing stations: Cutting, sleeve removal, insulation removal
- Special head shape for fatigue-free working in the longitudinal direction
- Also for working in hard to reach locations, e.g. in junction and distributor boxes
- Insulation removal for 1.5 and 2.5 mm² cables
- High-quality C70 tool steel
- Induction-hardened cutting blades approx. 64 HRC

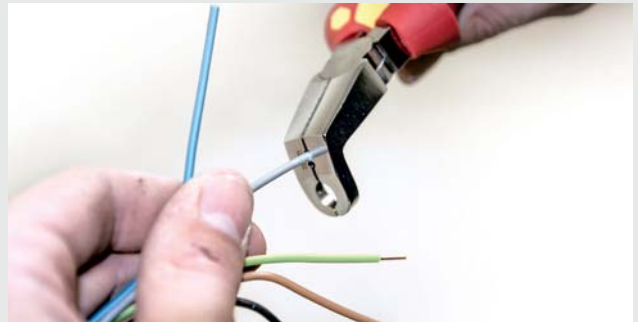


Your Advantage / Benefit

- Ergonomic and power-saving sleeve and insulation removal in the longitudinal direction
- Cutting of soft and hard wires, as well as NYM lines 3 x 1.52 - 5 x 2.52
- Flush insulation removal from round and wet-room cables
- Stipulated insulation removal for 1.5 and 2.5 mm² cables

Application

- for electrical installation
- for wiring switchgear cabinets
- general maintenance and repair work



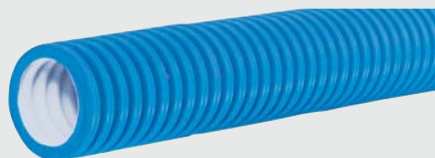
Article No.	Article Description	QTY
4012 170	VDE-STRIPPPLIERS 3IN2 170MM	1 ü

Related Products

- Electrician's protective gloves Class 0 AGR 5405



- Empty tube YSF-GS-HO AGR 8440



- Gel connection AGR 8448



Bit-Set with carabiner

Bit-Kit for rapid access to bits and bit holders

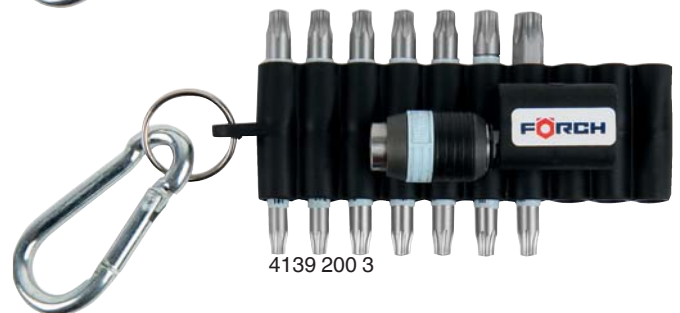
- 25 mm long bits
- 1/4" mount
- with bit holder



4139 200 1



4139 200 2



4139 200 3

Article No.	Article Description	QTY
4319 200 1	BIT-KIT1/4"W.CARAB.17-PCE UNI	1
4319 200 2	BIT-KIT1/4"W.CARAB.17-PCE WOOD	1
4319 200 3	BIT-KIT1/4"W.CARAB.17-PCE S.ST	1

Contents:

Art.-No. 4319 200 1:

- each 1x: PH 1/2/3
- each 1x: PZ 1/2/3
- each 1x: TX 10/15/20/25/30/40
- each 1x: Inbus 3/4/5
- 1x: LS 0.8x5.5
- 1x: Bit-holder with magnet 50 mm

Art.-No. 4319 200 2:

- each 1x: PH Inkra 2/3
- each 1x: PZ Inkra 2/3
- each 4x: TX Optigrip 20/25
- each 2x: TX Optigrip 30/40
- 1x: Bit-holder with magnet 50 mm

Art.-No. 4319 200 3:

- each 5x: TX stainless steel 20/25
- 2x: TX stainless steel 15
- each 1x: TX stainless steel 30/40
- 1x: Bit holder 1/4" stainless steel with quick-change chuck

Knipex VDE cable cutters **FÖRCH**★★★★★

- Approved for work under voltages up to 1000 V AC (alternating current) or DC 1500 V (direct current)
- Certified to IEC 60900 DIN EN 60900
- For cutting copper and aluminium single conductors as well as multi-stranded cables
- Not suitable for steel wire and hard-drawn copper conductors
- Precision-ground, hardened blades
- Easy cutting with single-handed operation
- Guard prevents pinch injuries
- Adjustable screw joint, self-locking
- High-grade special tool steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface

Art.-No. 4072 201 5:

- With initial and final cut (1st and 2nd cutting edge), cables up to Ø 20 mm can be separated



Technical Data

Length	Weight	Cutting capacity: Copper cable
165 mm	262 g	50 mm ² (Ø 15 mm)
200 mm	340 g	70 mm ² (Ø 20 mm)

Article No.	Article Description	QTY
4072 165 1 5	VDE-KABELSCHN.KNIPEX 165MM 5*	1
4072 201 5	VDE-KABELSCHN.KNIPEX 200MM 5*	1

VDE-Cable Cutter **FÖRCH**★★★★★

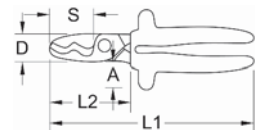
- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- For stripping and cutting of covered copper and aluminium cables



Article No.	Article Description	QTY
4072 160 1 5	VDE-CABLE CUTTER 160 5*	1 s
4072 210 5	VDE-CABLE CUTTER 210 5*	1 s

Dual cutt.edge cable shears, 2-way insulating

- Dipped insulation as per DIN EN 60900
- For single- and multi-wired copper and aluminium cables
- Precision sharpened for easy, clean cutting
- With pre-cutting and trimming action
- With adjustable screw joint
- Not suitable for steel wire or hard-drawn copper conductors
- Matt chrome finish
- Special tool steel



Technical Data

Ø	Cutting values	A	D	L1	L2	S
mm	mm ²	mm	mm	mm	mm	mm
20,0	50,0	13,5	33,0	200,0	83,0	48,0

Article No.	Article Description	QTY
4072 1 200	CAB.CUTT.PART.ISOL.200MM	1

Single-handed cable shears, 2-way insulation

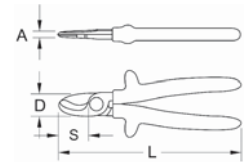
- Dipped insulation as per DIN EN 60900
- For single- and multi-wire copper and aluminium cables
- Compact design
- Single-wires of up to 25 mm²
- Multi-wires of up to 50 mm²
- Fine-wires of up to 70 mm²
- Not suitable for steel wire or hard-drawn copper conductors
- Phosphated
- Special tool steel



Technical Data

Article No.	Article Description	QTY
4072 3 215	CAB.CUTT.PART.ISOL.215MM	1

Ø mm	A mm	D mm	L mm	S mm
22,0	18,0	31,0	215,0	32,0



Cable shears, 2-way insulation

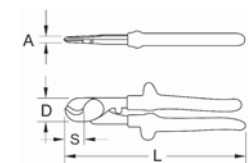
- Dipped insulation as per DIN EN 60900
- For single- and multi-wired copper and aluminium cables
- For cabled conductors of up to 50 mm²
- Low energy expenditure
- Not suitable for steel wire or hard-drawn copper cables
- Matt chrome finish
- Special tool steel



Technical Data

Article No.	Article Description	QTY
4072 6 240	CAB.CUTT.PART.ISOL.240MM	1

Ø mm	Cutting values mm ²	A mm	D mm	L mm	S mm
15,0	50,0	13,5	38,0	240,0	25,0



Single-handed cable shears, 2-way insulation

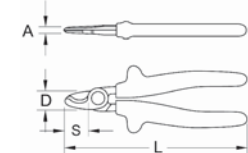
- Dipped insulation as per DIN EN 60900
- For single- and multi-wired copper and aluminium cables
- Compact design
- No crimping and very little distortion of the cable
- With precision screw joint
- Single wires of up to 16 mm²
- Multi-wires of up to 25 mm²
- Fine-wires of up to 50 mm²
- Not suitable for steel wire or hard-drawn copper conductors
- Special tool steel



Technical Data

Article No.	Article Description	QTY
4072 7 160	CAB.CUTT.PART.ISOL.160MM	1

Ø mm	A mm	D mm	L mm	S mm
15,0	12,0	25,0	160,0	20,0



Single-handed cable cutters, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For single wired and multi wired copper and aluminium cables
- With adjustable screw joint
- With clamp protection
- Not suited for steel wire and hard-drawn copper cables
- Phosphated
- Special tool steel



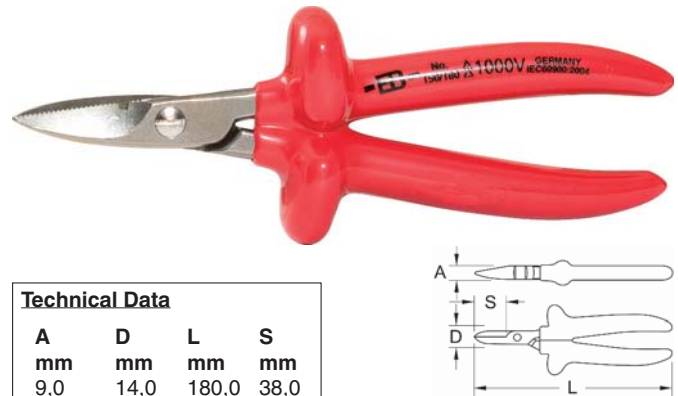
Article No.	Article Description	QTY
4072 2 165	CAB.CUTT.PART.ISOL.165MM	1

Technical Data

Ø mm	Cutting values mm ²	A mm	D mm	L mm	S mm
17,0	35,0	15,0	27,0	165,0	25,0

Electrician's shears, 2-way insulation

- Dipped insulation as per DIN EN 60900
- Only suitable for copper and aluminium wire
- For cutting thin wires and sheeting
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4072 4 180	CAB.CUTT.PART.ISOL.180MM	1

Technical Data

A mm	D mm	L mm	S mm
9,0	14,0	180,0	38,0

Power side-cutters, 2-way insulation

- In compliance with DIN ISO 5749
- Dipped insulation as per DIN EN 60900
- For all types of wire
- Specially for overhead line construction
- Low energy expenditure with inductively hardened precision cutting
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4012 2 180	SIDE CUTT.PART.ISOL.180MM	1
4012 2 205	SIDE CUTT.PART.ISOL.205MM	1
4012 2 260	SIDE CUTT.PART.ISOL.260MM	1

Technical Data

A mm	D mm	L mm	S mm
12,0	26,0	180,0	21,0
12,5	29,0	205,0	24,0
13,5	33,0	260,0	30,0

Knipex VDE high-ILev.diag.cutters **FÖRCH** ★★★★★

- **20% energy saving** compared to conventional diagonal cutters of the same length
- With forged joint axis for very tough, continuous use
- Ideal for all types of wire including piano wire
- High cutting performance with minimum effort due to optimum coordination of cutting edge angle and transmission ratio
- Precision cutting edge additionally induction-hardened, cutting edge hardness approx. 64 HRC
- Chrome vanadium heavy-duty steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface
- Insulation standard: IEC 60900 DIN EN 60900



Technical Data

Article No.	Article Description	QTY
4012 201 5	VDE LEV.DI.CUTT.KNIPEX200MM 5*	1
4012 250 5	VDE LEV.DI.CUTT.KNIPEX250MM 5*	1

Length	Weight	Cutting capacity:		
		Medium hard wire	Hard wire	Piano wire
200 mm	308 g	4.2 mm	3.0 mm	2.5 mm
250 mm	453 g	4.6 mm	3.5 mm	3.0 mm

VDE-Kraft-Side Cutter **FÖRCH** ★★★★★

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Anti-slip-function - prevents slipping out of the cable during cutting due to undulated profile
- Optimum lever transmission for easy and fatigue free cutting



Article No.	Article Description	QTY
4012 200 5	VDE-KRAFT SIDE CUTTER 200MM 5*	1 s

VDE Side Cutter FÖRCH*****

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Anti-slip function - prevents slipping out of the cable during cutting due to undulated profile
- Optimum lever transmission for easy and fatigue free cutting

Article No.	Article Description			QTY
4012 160 5	VDE SIDE CUTTER 160MM	5*		1 s
4012 180 5	VDE SIDE CUTTER 180MM	5*		1 s



VDE-Side Cutter

- Allows for workings at a voltage up to AC 1000 V (alternating current) and resp. DC 1500 V (direct current)
- Tested according to IEC 900 VDE 0680 part 201
- DIN 5238H - form B / ISO 5749
- Steel tool with max. performance
- Induction hardened, approx. 56 - 60 HRC

Article No.	Article Description			QTY
4012 160	VDE-SIDE CUTTER 160MM			1 s
4012 180	VDE-SIDE CUTTER 180MM			1 s



Electronic side cutter sharpened with facet

- Made of high-quality tool steel with opening spring, black burnished blades with soft-PVC-coating
- Powerful, slim model for finest workings at electrical element
- Precision cutting with easy cutting phase for soft and hard wires
- Tool steel with max. performance, induction hardened, approx. 63 HRC

Article No.	Article Description	QTY
4013 110	ELECTR.SIDECUTTER.SHARP 110	1 s



Electronic Flat Pliers

- Made from high quality tool steel with opening spring, browned jaws with soft PVC coating
- For exact align, folding and assembly work
- Precision jaws, tapering to 1mm, jaws are ground smooth
- C45 Material, oil hardened

Article No.	Article Description	QTY
4003 115	ELECTRONIC FLAT PLIERS 115	1 s



Electrical-Flat Nose Pliers

- Made of high-quality tool steel with opening spring, black burnished blades with soft-PVC-coating
- Long, flat-nosed jaws, for gripping, clamping and folding of smallest wires and elements
- Material C 45, oil hardened

Art. No. 4033 140:

- Straight jaws

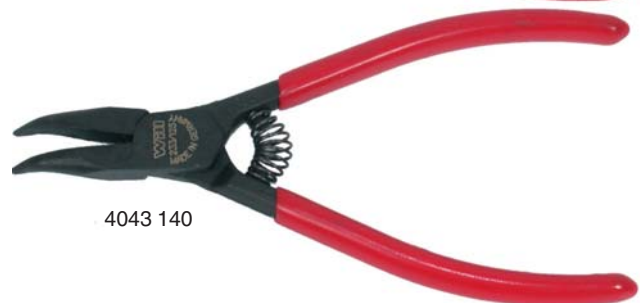
Art. No. 4043 140:

- 45° angled jaws

Article No.	Article Description	QTY
4033 140	ELECTR.FL.NOSED PLIERS STR.140	1 s
4043 140	ELECTR.FL.NOSED PLIERS ANG.140	1 s



4033 140



4043 140

Side cutter

- High quality tool steel, burnished
- Insulated, PVC coated handle
- DIN 5238 H - Form B / ISO 5749
- Precision cutting
- Highest quality tool steel
- Cutter inductively hardened, approx. 62 - 65 HRC

Article No.	Article Description	QTY
4011 145	SIDECUTTER PVC HANDLE 140MM	1 s
4011 160	SIDECUTTER PVC HANDLE 160MM	1 s
4011 180	SIDECUTTER PVC HANDLE 180MM	1 s



Kraft-Side Cutter

- High quality tool steel, burnished
- Insulated, PVC coated handle
- DIN 5238 H - Form A / ISO 5749
- Precision cutting
- Highest quality tool steel
- Cutter inductively hardened, approx. 62 - 65 HRC

Article No.	Article Description	QTY
4021 165	KRAFTSIDECUT.PVC HANDLE. 165MM	1 s
4021 200	KRAFTSIDECUT.PVC HANDLE. 200MM	1 s



Combination Pliers

- High quality tool steel, burnished
- Insulated, PVC coated handle
- DIN 5244 / ISO 5746
- Precision cutting for all wires, inductively hardened, approx. 56 - 60 HRC

Article No.	Article Description	QTY
4001 160	COMBIPLIERS PVC HANDLE 160MM	1 s
4001 180	COMBIPLIERS PVC HANDLE 180MM	1 s
4001 200	COMBIPLIERS PVC HANDLE 200MM	1 s



Flat Nosed Pliers with Cutting Edge

- High-quality tool steel, burnished
- Plunged insulated, PVC-coated handles
- DIN 5236 form A / ISO 5745
- Flat-nosed jaws with burner port for clamping screw nuts, studs
- Gripping surfaces toothed
- Precision cutting, induction hardened, approx. 56 - 60 HRC

Art. No. 4031 160 and 4031 200:

- Straight

Art. No. 4041 200:

- 45° angled

Article No.	Article Description	QTY
4031 160	FLAT NOSED PL.STR.PVC-HA.160MM	1 s
4031 200	FLAT NOSED PL.STR.PVC-HA.200MM	1 s
4041 200	FLAT NOSED PL.ANG.PVC-HA.200MM	1 s



Water Pump Pliers Knipex Cobra FÖRCH*****

- Adjustment by button directly on the work piece
- Fine adjustment for optimal adaptation to different work piece sizes and ergonomic handle position
- Self-locking on pipes and nuts: no slipping on the work-piece, low hand force requirement
- Gripping surfaces with special hardened teeth, tooth hardness approx. 61 HRC: low wear ensures long-term secure gripping
- Box-joint design: high stability due to double guide
- Pivot bolt latches safely: no unintentional misalignment
- Guard prevents pinch injuries
- Chrome-vanadium electric steel, forged, oil-hardened

Article No.	Article Description	QTY
4650 125	KNIP.COPRA WAPO PLIERS125MM 5*	1 s
4650 150	KNIP.COPRA WAPO PLIERS150MM 5*	1 s
4650 180	KNIP.COBRA WAPO.PLIERS180MM 5*	1 s
4650 250	KNIP.COBRA WAPO.PLIERS250MM 5*	1 s
4650 300	KNIP.COBRA WAPO.PLIERS300MM 5*	1 s
4650 400	KNIP.COBRA WAPO.PLIERS400MM 5*	1
4650 560	KNIP.COBRA WAPO.PLIERS560MM 5*	1



Waterpump Pliers Set Knipex Cobra FÖRCH*****

Art. No. 4652V 02:

- In VAROsoft tool deposit Art. No. 9026 620

Art. No. 4652V 03:

- In VAROsoft tool deposit Art. No. 9026 67 1

Contents Art.-No. 4652V 02:

Art.-No.	Article Description	Quantity
4650 180	KNIP.COBRA WAPU.PLIERS180MM 5*	1
4650 300	KNIP.COBRA WAPU.PLIERS300MM 5*	1
		1

Contents Art.-No. 4652V 03:

Art.-No.	Article Description	Quantity
4650 250	KNIP.COBRA WAPO.PLIERS250MM 5*	1
4720 5 400	ENGINEER HAMMER DIN 400G 5*	1
9894 32	'FÖRCH'FOLDING METRE STICK 2M	1

Article No.	Article Description	QTY
4652V 02	VS-COBRA PLIERS SET 2-PART 5*	1
4652V 03	VS-COBRA/HAMMER-SET 3-PART 5*	1



Waterpump Pliers Quattro-Grip FÖRCH*****

- Easy adaption due to innovative grid adjustment without touch of a button for rapide setting directly at the working piece
- Double toothed gripping jaws and inductively hardened

Article No.	Article Description	QTY
4650 250 5	WAPU-PLIE.QUATTRO GRIP 250MM5*	1 s
4650 320 5	WAPU-PLIE.QUATTRO GRIP 320MM5*	1 s
4650 400 5	WAPU-PLIE.QUATTRO GRIP 400MM5*	1 s



Waterpump Pliers Set Quattro-Grip FÖRCH*****

- In VAROsoft system tray Art. No. 9026 67 1

Contents Art.-No. 4652V 035:

Art.-No.	Article Description	Quantity
4650 250 5	WAPU-PLIE.QUATTRO GRIP 250MM5*	1
9894 32	'FÖRCH'FOLDING METRE STICK 2M	1
4720 5 400	ENGINEER HAMMER DIN 400G 5*	1

Article No.	Article Description	QTY
4652V 03 5	VS-PLIERS/HAMMER SET 3-PCS.5*	1



Knipex Cobra QS water pump pliers **FÖRCH**★★★★★

- QS = Quick Set
- Open fully, push, grip!
- Additional quick adjustment on the workpiece by pushing
- Combines the proven, secure locking of the joint pin with an additional shift function, which facilitates working in very narrow and inaccessible work areas
- Adjustment can be carried out directly on the workpiece simply by pushing
- Safe locking of the joint pin when pressure is first applied; the grip width of the pliers is then fixed and can only be adjusted by pressing the button
- To activate the shift function again, the joint pin is pushed out by pressing a button and the pliers are opened once to their full extent
- Chrome vanadium electric steel, forged, oil-hardened



Technical Data

Maximum pipe	Maximum pipe	Maximum width across flats	Length	Weight
2 inches	50 mm	46 mm	250 mm	335 g
2 3/4 inches	70 mm	60 mm	300 mm	530 g

Article No.	Article Description	QTY
4650 251 5	WAT.PU.KNIPEX COBRA QS250MM 5*	1 s
4650 301 5	WAT.PU.KNIPEX COBRA QS300MM 5*	1 s

Knipex Alligator water pump pliers **FÖRCH**★★★★★

- Better performance and comfort compared to conventional water pump pliers of the same length: 9-notch adjustment positioning for 30 % more gripping capacity
- Good access to the workpiece due to slim size of head and joint area
- Self-locking on pipes and nuts: no slipping on the workpiece as well as low handforce requirement
- Gripping surfaces with special hardened teeth, tooth hardness approx. 61 HRC: low wear ensures long-term secure gripping
- Box-joint design: high stability due to double guide
- Robust construction, insensitive to dirt; particularly suitable for outdoor work
- Guard prevents pinch injuries
- Chrome vanadium electric steel, forged, oil-hardened



Technical Data

Maximum pipe Ø	Maximum pipe Ø	Maximum width across flats	Length	Weight
1 1/2 inches	42 mm	36 mm	180 mm	180 g
2 inches	50 mm	46 mm	250 mm	319 g
2 3/4 inches	70 mm	60 mm	300 mm	511 g

Article No.	Article Description	QTY
4651 175 5	WATER PUMP PL.KNIPEX 180MM 5*	1 s
4651 240 5	WATER PUMP PL.KNIPEX 250MM 5*	1 s
4651 300 5	WATER PUMP PL.KNIPEX 300MM 5*	1 s

Knip.Cobra Waterpump Pliers 'Extra Slim' **FÖRCH**★★★★★

- Easy access to the workpiece due to its long and pointed jaws and slim construction
- Self-clamping design
- 19-fold adjustable via push of a button, up to max. SW 42



Article No.	Article Description	QTY
4650 250 2	KNIPEX-COBRA WAPU "ES"250MM 5*	1 s

Knipex Waterpump Pliers ‘Smart Grip’ **FÖRCH*******

- Automatic adjustment at the workpiece due to self-clamping jaws
- Locking lever for safe and space-saving transport
- Max. pipe-Ø: 1 1/4" or SW 36 mm

Article No.	Article Description	QTY
4650 250 1	KNIPEX-SMART GRIP-WAPU250MM 5*	1 s



Waterpump Pliers ‘Standard’

- Multi-adjustable
- Ground jaws

Article No.	Article Description	QTY
4651 175	WATERPUMP PLIERS 175MM	1
4651 240	WATERPUMP PLIERS 250MM	1
4651 300	WATERPUMP PLIERS 300MM	1



Waterpump Pliers Set ‘Standard’

Art. No. 4659 2:

- 2-part
- Length: 175 and 250 mm

Art. No. 4659 3:

- 3-part
- Length: 175, 250 and 300 mm

Article No.	Article Description	QTY
4659 2	WATERPUMP PLIER SET-2PARTS	1
4659 3	WATERPUMP PLIER SET-3PARTS	1



Knipex Locking Pliers **FÖRCH*******

- Self-clamping pliers for nuts and screws from 10 to 32 mm
- Skid-resistant, less expenditure of force, quick working
- Also suitable for metric or inch hexagon screws, no rounding of screw heads
- Even rusty and overpainted screws can be easily grasped
- Ideal for countering
- 15-fold adjustable via push of a button



Article No.	Article Description	QTY
4652 250 1	KNIPEX LOCKING PLIERS 250MM 5*	1 s

Knipex Pliers **FÖRCH*******

- Parallel and flat jaws
- 18-fold adjustable via push of a button
- For screws and nuts up to 35/46/60
- Universally usable, ideal for screw protecting mounting of fittings



Article No.	Article Description	QTY
4652 150	KNIPEX PLIERS 150MM WS27 5*	1
4652 180	KNIPEX PLIERS 180MM WS35 5*	1
4652 250	KNIPEX PLIERS 250MM WS46 5*	1
4652 300	KNIPEX PLIERS 300MM WS60 5*	1
4652 400	KNIPEX PLIERS 400MM WS85 5*	1

Pliers - Channellock

- Half-round shaped jaws, toothed and laser-hardened
- US-Alloy-Steel, forged, plain
- Plastic-coated grips

Technical Data

Art. No.	Clamp. range inch	Clamp. range mm	L mm
4653 414	2.00	50.80	350



Article No.	Article Description	QTY
4653 414	PLIERS CHANNELLOCK 414	1

Pipe Wrench, One-Hand Aluminium

- Made of light-alloy
- High pulling strength
- Hardened jaws HRC 53

Technical Data

Art. No.	Clamp. range inch	Length mm
4662 2	2"	350
4662 25	2 1/2"	450
4662 3	3"	600



Article No.	Article Description	QTY
4662 2	ONEHAND PIPEWRENCH ALU 2"	1
4662 2 5	ONEHAND PIPEWRENCH ALU 2 1/2"	1
4662 3	ONEHAND PIPEWRENCH ALU 3"	1

Pipe tongs with quick adjustment

- integrated clamping protection
- adjusted by pressing a button
- toughened, polished jaw
- self-clamping

Technical Data

Art. no.	gripping range inch	gripping range mm	L mm
4667 1 12	1 1/2"	60	420



Article No.	Article Description	QTY
4667 1 12	PIPE WREN. QUICK-ADJUST.1 1/2"	1

Corner Pipe Wrench 45°

- Chrome-vanadium - red painted
- All-steel forged

Technical Data

Art. No.	Clamp. range inch	Clamp. range mm	Length mm
46611	1"	50	320
466112	1 1/2"	65	405
46612	2"	80	550



Article No.	Article Description	QTY
4661 1	CORNER PIPE WRENCH 45° 1"	1
4661 1 12	CORNER PIPE WRENCH 45° 1 1/2"	1
4661 2	CORNER PIPE WRENCH 45° 2"	1

Corner Pipe Wrench 45° SUPER S

- Chrome-vanadium, red painted
- All-steel forged, powerful double-T-profile handle
- S-formed opening makes safe grasping at any range possible and enables more retention force at the same time



Technical Data

Art. No.	Clamp. range inch	Clamp. range mm	Length mm
466012	1/2"	33	240
46601	1"	48	320
4660112	1 1/2"	56	420
46602	2"	71	550
46603	3"	94	600

Article No.	Article Description	QTY
4660 12	CORNER PIPE WRENCH 45° S 1/2"	1
4660 1	CORNER PIPE WRENCH 45° S 1"	1
4660 1 12	CORNER PIPE WRENCH 45° S 1 1/2"	1
4660 2	CORNER PIPE WRENCH 45° S 2"	1
4660 3	CORNER PIPE WRENCH 45° S 3"	1

Corner Pipe Wrench 90°

- Chrome-vanadium, red painted
- All-steel forged, powerful double T-profile handle



Technical Data

Art. No.	Clamp. range inch	Clamp. range mm	Length mm
4663 1	1"	42	305
4663 1 12	1 1/2"	60	405
4663 2	2"	70	560
4663 3	3"	105	650

Article No.	Article Description	QTY
4663 1	CORNER PIPE WRENCH 90° 1"	1
4663 1 12	CORNER PIPE WRENCH 90° 1 1/2"	1
4663 2	CORNER PIPE WRENCH 90° 2"	1
4663 3	CORNER PIPE WRENCH 90° 3"	1

Knipex CoBolt bolt cutter **FÖRCH** ★★★★★

- Precision cutting for soft and hard wires as well as piano wire
- Cuts construction elements such as bolts, nails, rivets, etc. of up to Ø 5.2 mm
- Very efficient with low energy expenditure due to hinge design
- Additional inductively hardened cutting; cutting hardness of 64 HRC
- Particularly high cutting performance
- High-performance chrome vanadium steel, forged and oil-hardened
- 60 % energy saving in comparison with conventional power side cutters

Art.-No. 4665 200, Art.-No. 4665 201:

- Dip-coated handles

Art.-No. 4665 202, Art.-No. 4665 203:

- Multi-component handles

Art.-No. 4665 200:

- Straight, without opening springs

Art.-No. 4665 201:

- 20° angled without opening springs

Art.-No. 4665 202:

- Straight with opening springs or locking mechanism

Art.-No. 4665 203:

- 20° angled with opening springs and locking mechanism

Technical Data

Art.-No.:	Length mm:	Max. cutting performance in mm:			
		Soft wire:	Medium- hard wire:	Hard wire:	Piano wire:
4665 200	200	6,0	5,2	4,0	3,6
4665 201	200	6,0	5,2	4,0	3,6
4665 202	200	6,0	5,2	4,0	3,6
4665 203	200	6,0	5,2	4,0	3,6

Article No.	Article Description	QTY
4665 200	BOLT CUT.KNIP.CB STR.200MM 5*	1
4665 201	BOLT CUT.KNIP.CB 20° 200MM 5*	1
4665 202	BOLT CUT.KNIP.CB SPR.200MM 5*	1
4665 203	BOLT CUT.KNIP.CB 20° SPR200MM5*	1



 4665 200



 20°  4665 201



  4665 202



Safe locking mechanism due to user-friendly spring-clips



 20°   4665 203

 Cutter with bevel

 Second tap

 Opening spring

Bolt Cutter

- For energy save cutting of construction steels up to 1300 N/mm² (HRC 40), concrete steel, I, II, III, IV, pre-stressed concrete steel

Technical Data

Art. No.	L mm	For bolt-Ø 490 N/mm ²	For bolt-Ø 1300 N/mm ²
4665 450	450	8	6
4665 600	600	10	8
4665 750	750	13	9
4665 1050	950	14	11



Article No.	Article Description	QTY
4665 450	BOLT CUTTER 450MM	1
4665 600	BOLT CUTTER 600MM	1
4665 750	BOLT CUTTER 750MM	1
4665 1050	BOLT CUTTER 950MM	1

Bolt Cutter - Replacement Cutter Head

- Complete with screws and nuts

Article No.	Article Description	QTY
4665 450 1	CUTTER HEAD FOR BOLT CUT.450MM	1
4665 600 1	CUTTER HEAD FOR BOLT.CUT.600MM	1
4665 750 1	CUTTER HEAD FOR BOLT.CUT.750MM	1
4665 1050 1	CUTTER HEAD FOR BOLT.CUT.950MM	1

(For bolt cutter L mm)



Steel wire mesh cutter

- suitable for cutting construction steel mats
 - for material to hardness 44 HRC
 - PVC handle
 - interchangeable and re-orderable 90° milling head
 - milling head deburred and blasted
 - knife forged from chrome vanadium, black powder painted
- art. no. 4665 900 1:**
- replacement milling head incl. 2 replacement screws

Technical Data

length mm	max cutting performance in mm	
	19 HRC	40 HRC
900	11	9

Article No.	Article Description	QTY
4665 900	STEEL WIRE MESH CUTTER 900MM	1
4665 900 1	REPL.BLADES F.ST.WIRE MESH CUT	1



Special Pliers for Stainless Steel Strips

- Particularly suitable for cutting clamps to length for axle and steering boots
- Max. cutting width: 6 mm
- Total length: 200 mm

Article No.	Article Description	QTY
4920 34	SPEC.PLIER F.STAIN.STEEL STR.	1



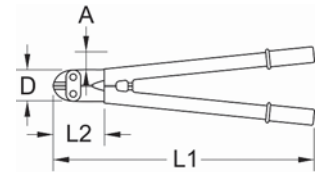
Bolt cutters, 2-way insulation

- Dipped insulation as per DIN EN 60900
- With steel pipe shanks and eccentric adjustment
- With removable cutter head
- Cutter head made from special highly-tempered steel
- With inductively hardened precision cutting
- Phosphated
- Special tool steel

Technical Data

A	D	L1	L2
mm	mm	mm	mm
8,0	79,0	610,0	115,0

Article No.	Article Description	QTY
4072 14 610	BOLT CUTTER 610MM	1



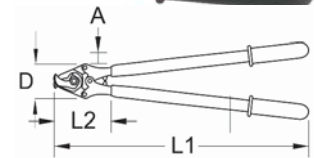
Cable shears, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For cutting copper and aluminium cables without crimping
- With removable cutter head
- Cutter head made of special alloyed steel
- Low energy expenditure
- Not suitable for steel wire or hard-drawn copper cables
- Matt chrome finish
- Special tool steel

Technical Data

Art.-No.	Ø	Cutting values	A	D	L1	L2
	mm ²	mm	mm	mm	mm	mm
4072 8 600	26,0	150,0	16,0	80,0	600,0	80,0
4072 8 700	33,0	180,0	17,0	86,0	700,0	105,0

Article No.	Article Description	QTY
4072 8 600	CABLE CUTTER 600MM	1
4072 8 700	CABLE CUTTER 700MM	1



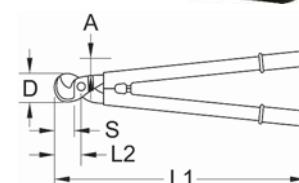
Cable shears, 500 mm, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For cutting copper and aluminium cables without crimping
- Cuts cleanly due to new cutting geometry
- With adjustable screw joint
- Low energy expenditure
- Not suitable for steel wire or hard-drawn copper cables
- Matt chrome finish
- Special tool steel

Technical Data

Ø	Cutting values	A	D	L1	L2	S
mm	mm ²	mm	mm	mm	mm	mm
27,0	150,0	15,0	59,0	500,0	58,0	37,0

Article No.	Article Description	QTY
4072 9 500	CABLE CUTTER 500MM	1



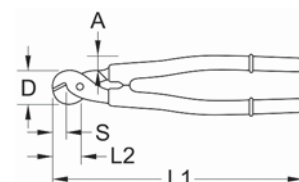
Cable shears for wire cables, 2-way insulation

- Dipped insulation DIN EN 60900
- Above-average cutting performance
- For the cutting of steel aluminium wires and copper and aluminium cables without crimping
- Angular cutting edges for severing individual wires
- With removable cutter head
- Cutter head made from special highly-tempered steel
- Low energy expenditure
- Matt chrome finish
- Special tool steel

Technical Data

Ø	Cutting value	A	D	L1	L2	S
mm	mm ²	mm	mm	mm	mm	mm
20,0	120,0	19,0	90,0	600,0	84,0	17,0

Article No.	Article Description	QTY
4072 10 600	WI. ROPE CUTT. PA. ISOL. 500MM	1



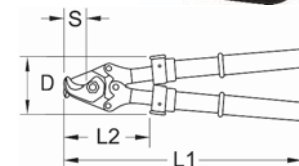
Cable shears, telescopic handle, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For single- and multi-wired copper and aluminium cables
- With telescopic handle
- With removable cutter head
- Low energy expenditure
- Not suitable for steel wire or hard-drawn copper cables
- Matt chrome finish
- Special tool steel

Technical Data

Ø	Cutting values	D	L1	L2	S
mm	mm ²	mm	mm	mm	mm
31,0	185,0	82,0	360-520	63,0	35,0

Article No.	Article Description	QTY
4072 11 360 520	TELE-CABLE CUTT. 360-520MM	1

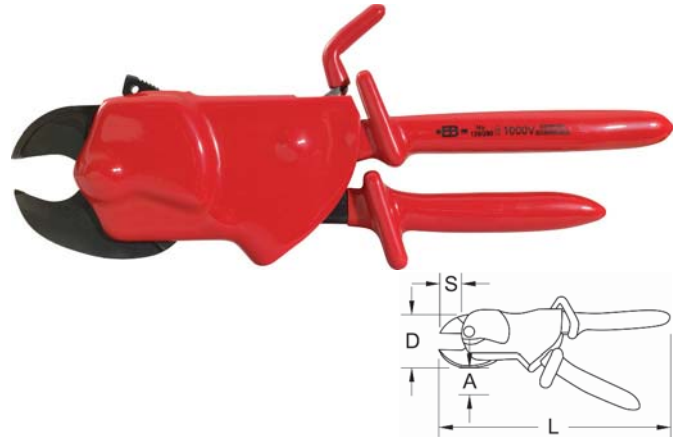


Single-handed ratchet cable shears, 2-way insu

- Dipped insulation DIN EN 60900
- For single- and multi-wired copper and aluminium
- Coated working head
- Automatic resetting with retracting spring
- Cutting may be interrupted at any point
- Matt chrome finish
- Special tool steel

Technical Data

Art.-No.	A	D	L	S
	mm	mm	mm	mm
4072 12 290	40,0	80,0	290,0	35,0
4072 12 310	40,0	85,0	310,0	40,0



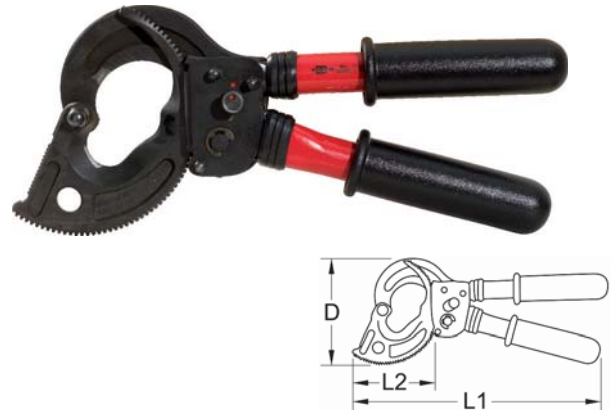
Article No.	Article Description	QTY
4072 12 290	1HA.RATCHET CAB.CUTT.290MM	1
4072 12 310	1HA.RATCHET CAB.CUTT.310MM	1

Ratchet cable shears, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For single- and multi-wired copper and aluminium cables
- With double layered eccentric drive
- Almost completely unbreakable teeth
- Cuts through thin steel plate sheathing
- With ratchet function
- Not suitable for hardened steel wire
- Phosphated
- Special tool steel

Technical Data

Art.-No.	Ø	Cutting values	D	L1	L2
	mm	mm ²	mm	mm	mm
4072 13 400	62,0	840,0	150,0	400,0	90,0
4072 13 530	80,0	1000,0	190,0	530,0	110,0



Article No.	Article Description	QTY
4072 13 400	RATCHET CABLE CUTTER 310MM	1
4072 13 530	RATCHET CABLE CUTTER 530MM	1

Knipex straight external circlip pliers **FÖRCH*******

- For shaft locking clips
- With inserted tips for reliable work
- High durability in continuous operation: up to 10 times longer service life compared to turned tips
- Large contact faces on the tips: no distortion of circlips, easy fitting
- Bolted joint: precise, backlash-free operation of pliers
- Internal opening spring, protected and captive
- Non-slip plastic coating on the handles
- Plier body: Chrome vanadium electric steel, forged, oil-hardened
- Inserted tips: Spring steel wire, drawn with overexpansion protection (adjustable via stop screw)
- Adjustment with hexagon socket screw
- Ideal for serial production, as an overexpansion of the circlips is effectively avoided



Article No.	Article Description	QTY
4076 1 5	STR.EXT.CIRCLIP PL.A1KNIPEX 5*	1 s
4076 2 5	STR.EXT.CIRCLIP PL.A2KNIPEX 5*	1 s

Knipex straight internal circlip pliers **FÖRCH*******

- With inserted tips for reliable work
- High durability in continuous operation: up to 10 times longer service life compared to turned tips
- Bolted joint: precise, backlash-free operation of pliers
- Non-slip plastic coating on the handles
- Plier body: chrome vanadium electric steel, forged, oil-hardened
- Inserted tips: Spring steel wire, drawn & #160;
- with overexpansion protection (adjustable via stop screw)



Article No.	Article Description	QTY
4078 1 5	STR.EXT.CIRCLIP PL.I1KNIPEX 5*	1 s
4078 2 5	STR.EXT.CIRCLIP PL.I2KNIPEX 5*	1 s

Circlip plier set internal / external **FÖRCH*******

- in VAROsoft- system insert, Art.-No. 9026 626

Contents:

Art.-No.	Article Description	Quantity
4076 1 5	STR.EXT.CIRCLIP PL.A1KNIPEX 5*	1
4076 2 5	STR.EXT.CIRCLIP PL.A2KNIPEX 5*	1
4078 1 5	STR.EXT.CIRCLIP PL.I1KNIPEX 5*	1
4078 2 5	STR.EXT.CIRCLIP PL.I2KNIPEX 5*	1

Article No.	Article Description	QTY
4099V 5 5	CIRCLIP PLIER SET 5*	1



Seeger Circlip Pliers, Straight

- According to DIN 471 and 983
- For shaft retainer

Technical Data

Art.No.	For ring-Ø mm
4076 0	3 - 10
4076 1	10 - 25
4076 2	19 - 60
4076 3	40 - 100
4076 4	85 - 165



Article No.	Article Description	QTY
4076 0	SEEGER CIRC.PLIERS STRAIGHT A0	1 z
4076 1	SEEGER CIRC.PLIERS STRAIGHT A1	1 z
4076 2	SEEGER CIRC.PLIERS STRAIGHT A2	1 z
4076 3	SEEGER CIRC.PLIERS STRAIGHT A3	1 z
4076 4	SEEGER CIRCL.RING PL.STRA. A 4	1 z

Circlip Pliers, Straight

- In VAROsoft tool deposit 9026 64

Contents:

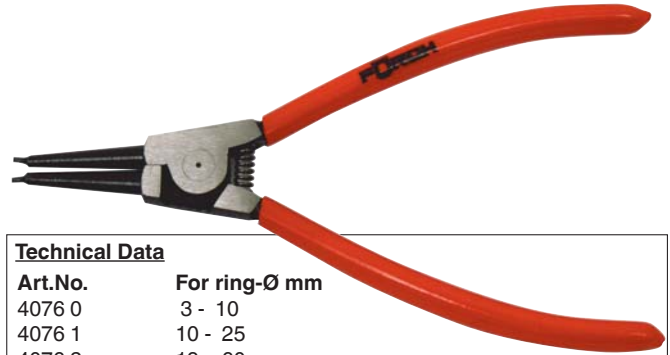
Art.-No.	Article Description	Quantity
4076 0	SEEGER CIRC.PLIERS STRAIGHT A0	1
4076 1	SEEGER CIRC.PLIERS STRAIGHT A1	1
4076 2	SEEGER CIRC.PLIERS STRAIGHT A2	1
4076 3	SEEGER CIRC.PLIERS STRAIGHT A3	1

Article No.	Article Description	QTY
4076V 9	VS-CIRCL.PLIERS SET A STRAIGHT	1



Seeger Circlip Pliers, Straight

- According to DIN 471 and 983
- For shaft retainer



Technical Data

Art.No.	For ring-Ø mm
4076 0	3 - 10
4076 1	10 - 25
4076 2	19 - 60
4076 3	40 - 100
4076 4	85 - 165

Article No.	Article Description	QTY
4076 0	SEEGER CIRC.PLIERS STRAIGHT A0	1 z
4076 1	SEEGER CIRC.PLIERS STRAIGHT A1	1 z
4076 2	SEEGER CIRC.PLIERS STRAIGHT A2	1 z
4076 3	SEEGER CIRC.PLIERS STRAIGHT A3	1 z
4076 4	SEEGER CIRCL.RING PL.STRA. A 4	1 z

Circlip Pliers, Straight

- In VAROsoft tool deposit 9026 64

Contents:

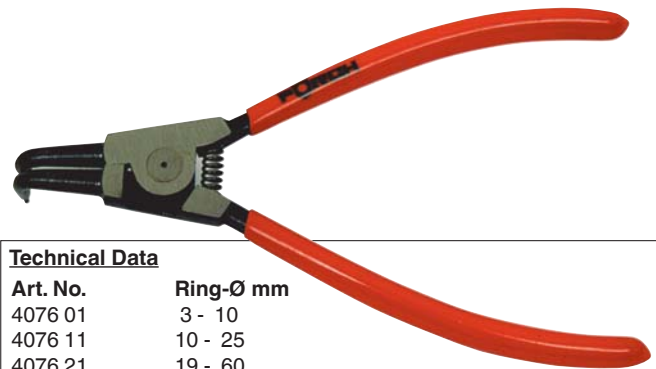
Art.-No.	Article Description	Quantity
4076 0	SEEGER CIRC.PLIERS STRAIGHT A0	1
4076 1	SEEGER CIRC.PLIERS STRAIGHT A1	1
4076 2	SEEGER CIRC.PLIERS STRAIGHT A2	1
4076 3	SEEGER CIRC.PLIERS STRAIGHT A3	1



Article No.	Article Description	QTY
4076V 9	VS-CIRCL.PLIERS SET A STRAIGHT	1

Circlip Pliers, Curved

- According to DIN 471 and 983
- For shaft retainer



Technical Data

Art. No.	Ring-Ø mm
4076 01	3 - 10
4076 11	10 - 25
4076 21	19 - 60
4076 31	40 - 100
4076 41	85 - 165

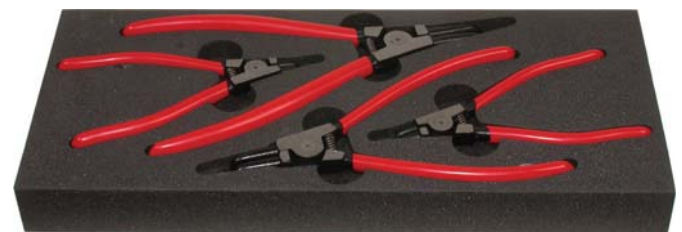
Article No.	Article Description	QTY
4076 01	SEEGER CIRC.PLIERS CURVED A 01	1 z
4076 11	SEEGER CIRC.PLIERS CURVED A 11	1 z
4076 21	SEEGER CIRC.PLIERS CURVED A 21	1 z
4076 31	SEEGER CIRC.PLIERS CURVED A 31	1 z
4076 41	SEEGER CIRC.PLIERS CURVED A 41	1 z

Circlip Pliers Set, Curved

- In VAROsoft tool deposit Art. No. 9026 64

Contents:

Art.-No.	Article Description	Quantity
4076 01	SEEGER CIRC.PLIERS CURVED A 01	1
4076 11	SEEGER CIRC.PLIERS CURVED A 11	1
4076 21	SEEGER CIRC.PLIERS CURVED A 21	1
4076 31	SEEGER CIRC.PLIERS CURVED A 31	1



Article No.	Article Description	QTY
4076V 9 1	VS-CIRCL.PLIERS SET A CURVED	1

Circlip Pliers, Curved

- According to DIN 471 and 983
- For shaft retainer

Technical Data

Art. No.	Ring-Ø mm
4076 01	3 - 10
4076 11	10 - 25
4076 21	19 - 60
4076 31	40 - 100
4076 41	85 - 165



Article No.	Article Description	QTY
4076 01	SEEGER CIRC.PLIERS CURVED A 01	1 z
4076 11	SEEGER CIRC.PLIERS CURVED A 11	1 z
4076 21	SEEGER CIRC.PLIERS CURVED A 21	1 z
4076 31	SEEGER CIRC.PLIERS CURVED A 31	1 z
4076 41	SEEGER CIRC.PLIERS CURVED A 41	1 z

Circlip Pliers Set, Curved

- In VAROsoft tool deposit Art. No. 9026 64

Contents::

Art.-No.	Article Description	Quantity
4076 01	SEEGER CIRC.PLIERS CURVED A 01	1
4076 11	SEEGER CIRC.PLIERS CURVED A 11	1
4076 21	SEEGER CIRC.PLIERS CURVED A 21	1
4076 31	SEEGER CIRC.PLIERS CURVED A 31	1

Article No.	Article Description	QTY
4076V 9 1	VS-CIRCL.PLIERS SET A CURVED	1



Circlip Pliers, Straight

- According to DIN 472 and 984
- For drilling circlips

Technical Data

Art. No.	Ring-Ø mm
4078 0	8 - 15
4078 1	12 - 25
4078 2	19 - 60
4078 3	40 - 100
4078 4	85 - 200



Article No.	Article Description	QTY
4078 0	SEEGER CIRCL.PL.STRAIGHT I 0	1 z
4078 1	SEEGER CIRCL.PL.STRAIGHT I 1	1 z
4078 2	SEEGER CIRCL.PL.STRAIGHT I 2	1 z
4078 3	SEEGER CIRCL.PL.STRAIGHT I 3	1 z
4078 4	SEEGER CIRCL.PL.STRAIGHT I 4	1 z

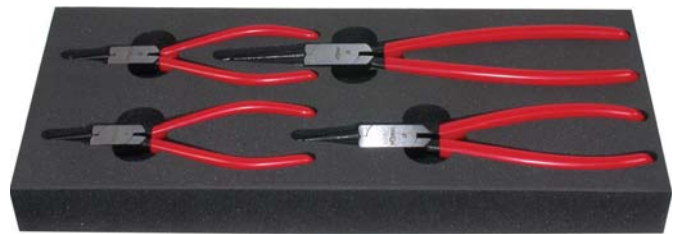
Circlip Pliers, Straight

- In VAROsoft Art. No. 9026 64

Contents:

Art.-No.	Article Description	Quantity
4078 0	SEEGER CIRCL.PL.STRAIGHT I 0	1
4078 1	SEEGER CIRCL.PL.STRAIGHT I 1	1
4078 2	SEEGER CIRCL.PL.STRAIGHT I 2	1
4078 3	SEEGER CIRCL.PL.STRAIGHT I 3	1

Article No.	Article Description	QTY
4078V 9	VS-CIRCL.PLIERS SET I STRAIGHT	1



Internal Circlip Pliers, Curved Version

- According to DIN 472 and 984
- For drilling circlips



Article No.	Article Description	QTY
4078 01	SEEGER CIRCLIP PL.CURVED I 01	1 z
4078 11	SEEGER CIRCLIP PL.CURVED I 11	1 z
4078 21	SEEGER CIRCLIP PL.CURVED I 21	1 z
4078 31	SEEGER CIRCLIP PL.CURVED I 31	1 z
4078 41	SEEGER CIRCLIP PL.CURVED I 41	1

Technical Data

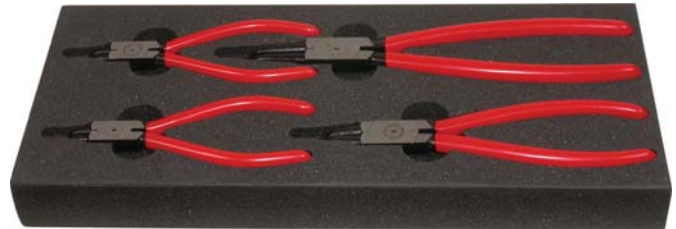
Art. No.	Ring-Ø mm
4078 01	8 – 15
4078 11	12 – 25
4078 21	19 – 60
4078 31	40 – 100
4078 41	85 – 200

Circlip Pliers Set, Curved

- In VAROsoft tool deposit VAROsoft Art. No. 9026 64

Contents:

Art.-No.	Article Description	Quantity
4078 01	SEEGER CIRCLIP PL.CURVED I 01	1
4078 11	SEEGER CIRCLIP PL.CURVED I 11	1
4078 21	SEEGER CIRCLIP PL.CURVED I 21	1
4078 31	SEEGER CIRCLIP PL.CURVED I 31	1



Article No.	Article Description	QTY
4078V 9 1	VS-CIRCLIP PLIERS-SET I CURVED	1

Fuse Tongs Set, Bent / Straight

- In VAROsoft system Art. No. 9026 742
- According to DIN 471 and 983
- For shaft locking clips

Contents:

Art.-No.	Article Description	Quantity
4076 2	SEEGER CIRC.PLIERS STRAIGHT A2	1
4076 21	SEEGER CIRC.PLIERS CURVED A 21	1
4078 2	SEEGER CIRCL. PL.STRAIGHT I 2	1
4078 21	SEEGER CIRCLIP PL.CURVED I 21	1



Article No.	Article Description	QTY
4099V 5	VS FUSE RI.PLIERS SET BENT/STR	1

Seeger Circlip Pliers Set with Ring Fixing

- With these pliers you can create 6 different circlip pliers by changing the points
- Working range:
 - Internal: 79 – 159 mm
 - External: 89 – 159 mm

Article No.	Article Description	QTY
4076 90	SNAP RING PLIERS SET RINGFIX	1
4076 90 1	PAIR REPL.POINTS STRAIGHT	1
4076 90 2	PAIR REPL.POINTS 45° CURVED	1
4076 90 3	PAIR REPL.POINTS 90° CURVED	1

Contents:

- 1x basis tool for internal shafts, jaw length 400 mm
- 1x basis tool for external shafts, jaw length 400 mm
- 6 pairs of points:
 - 3x Ø 3.00 mm: straight, 45°, angled 90°



Securing Collar – Tool

- Makes it easier to remove the securing collars that are frequently stuck on the inside of the wheel bearings
- Gap for adjusting screw of 6.3 mm = 1/4" ratchet for maximum power and quick removal
- Suitable for cars, transport vehicles and trucks
- Unique construction always ensures the correct angle of the pin, irrespective of the size of the securing collar
- Very easy to change the pin
- 7-pieces
- 5 – 95 mm working diameter

Article No.	Article Description	QTY
4914 2867	SECURING COLLAR TOOL V2867	1
4914 2867 25	E-TIPS F.V2867 Ø2.5MM 4PCS	1
4914 2867 30	E-TIPS F.V2867 Ø3.0MM 4PCS	1
4914 2867 35	E-TIPS F.V2867 Ø3.5MM 4PCS	1

2× 2,5 mm
2× 3,0 mm
2× 3,5 mm



Snap Ring Pliers Set Maxi

- With the set of pliers 4 different fuse tongs can be put together by simply changing the tips
- Work area:
 - internal: 165 – 300 mm
 - external: 165 – 300 mm

Article No.	Article Description	QTY
4076 500	SNAP RING PLIERS SET MAXI	1
4076 500 1	PAIR E-TIPS 65MM STRAIGHT	1
4076 500 2	PAIR E-TIPS 100MM CURV.90°	1

Contents:

- 1× basic device for inner rings, shank length 500 mm
- 1× basic device for outer rings 500 mm
- 4 pairs of tips:
 - 2× Ø 3.6 mm straight
 - 2× Ø 3.6 mm 90°



Circlip Pliers, Top 90°

- For circlips at external shafts
e. g. at gear
- Top 90° offset

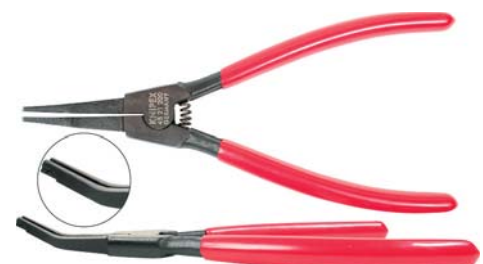
Article No.	Article Description	QTY
4920 100	CIRCLIP PLIERS TOP 90°	1 s



Circlip Pliers, Straight Top

- For circlip pliers at external shafts
at VW-Audi, e.g. external constant-velocity joint
- Straight top

Article No.	Article Description	QTY
4920 101	CIRCLIP PLIERS STRAIGHT TOP	1 s



Self Locking Pliers Lock Jaw

- Patented double cam action - enables the pliers to adjust automatically to any size
- Chrome-molybdenum-steel construction - sturdiness and rust prevention
- Set and Forget™ clamp operation - only once set the desired clamp strength from soft to extremely hard - subsequently the constant clamp force is guaranteed irrespectively of how thick the material is
- Anti-skid surface - safe grip for difficult situations
- Simple and safe unlocking - the pliers remain closed until unlocked. This ease of use enables one handed operation.

Article No.	Article Description	QTY
4670 101	LOCKJAW-GRIP PLIERS 6CJ 150MM	1
4670 102	LOCKJAW-GRIP PLIERS 10CJ 250MM	1



Grip-Pliers WR

- With curved jaws and wire cutter

Article No.	Article Description	QTY
4670 10	GRIP PL.CUR.W.WIR.CU.5WR 130MM	1
4670 11	GRIP PL.CUR.W.WIR.CU.7WR 180MM	1
4670 12	GRIP PL.CUR.W.WI.CU.10WR 220MM	1
4670 13	GRIP PL.CUR.W.WI.CU.4WR 100MM	1



Grip-Pliers CR

- With curved jaws without wire cutter

Article No.	Article Description	QTY
4670 20	GR.PL.CUR.WITHO.WI.CU.7CR180MM	1
4670 21	GR.PL.BEND.WITHO.W.WIRE10CR220	1



Grip-Pliers R

- With straight jaws

Article No.	Article Description	QTY
4670 30	GRIP PL.STRAI.JAWS 7CR 180MM	1
4670 31	GRIP PL.STRAI.JAWS 10CR 220MM	1



Langbeck-Grip Pliers LN

- With straight jaws and wire cutter

Article No.	Article Description	QTY
4670 1	LANGBECK-GRIP PLIERS 4LN 100MM	1
4670 2	LANGBECK-GRIP PLIERS 6LN 150MM	1
4670 3	LANGBECK-GRIP PLIERS 9LN 230MM	1



Grip Pliers Board, 11-Part

Article No.	Article Description	QTY
4670 2 11	GRIP PLIERS BOARD 11PART	1

Contents:

- 2 grip pliers with straight jaws 10R/7R
- 4 grip pliers with curved jaws and wire cutter 10WR/7WR/5WR/4WR
- 2 grip pliers with curved jaws without wire cutter 10CR/7CR
- 3 Langbeck-grip pliers 9LN/6LN/4LN



Open Ended-Grip Pliers

- Due to specific open ended form (three-point clamping) these pliers are ideally suitable for loosening „round“ nuts (brake line nipples, tie rods, etc.)

Article No.	Article Description	QTY
4670 8	OPEN-END.PL.WITH WIRE CU.100MM	1 ü



Grip-Pliers C

- Gripper C-form with high range and reaching depth



Article No.	Article Description	QTY
4670 43	GRIPPER C 6 R 150MM	1
4670 40	GRIPPER C11 R 280MM	1
4670 41	GRIPPER C18 R 460MM	1
4670 42	GRIPPER C24 R 600MM	1

Technical Data

Art. No.	Range mm	Reaching depth mm
4670 43	50	40
4670 40	95	80
4670 41	200	250
4670 42	370	400

Self-Grip Welding Clamp

- U-form with high depth of clamping jaw

Article No.	Article Description	QTY
4670 50	SELF-GRIP WELD.CLAMP 9 R 230MM	1



Sheet-Grip Pliers

- With wide flat gripping jaw

Article No.	Article Description	QTY
4670 70	SHEET-GRIP PLIERS 8 R 200MM	1



SAM Grip Pliers

- Narrow clamping jaws
- Reinforced pivot
- Four snap settings on jaw
- Precise adjustment with knurled screw
- Simple and safe one-handed release
- Clamping jaws made from chrome-vanadium steel



Article No.	Article Description	QTY
4670 250	SAM ADJ.GRIP PLIERS	1

Technical Data

Article-no.	Length mm	Jaw width mm	Span mm
4670 250	250	16	0 - 85 mm

Mobile gripping pliers set

- two gripping pliers with clamping mechanism in a practical carry bag
- highly flexible clamping tool for mobile use in various work places
- universal jaw geometry to securely hold the different shapes of work pieces
- EPOXY - powder coated surface for optimum corrosion protection
- free hands to be able to work effectively and safely
- positive locking hold in the clamping mechanism
- quick and easy to fix the gripping pliers
- optimum storage and transport option

applications:

- plumbing, heating engineering, metal work, car body construction, roofing, scaffolding, gardening and landscaping, window building, boating needs and accessories, carpentry, mobile work shops etc.



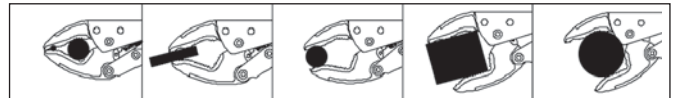
Technical Data

	total length	span range
gripping pliers:	250 mm	0 - 60 mm
clamping device:	190 mm	0 - 60 mm

Article No.	Article Description	QTY
4670 200	MOBILE GRIPPING PLIERS SET	1
4670 200 1	GRIP PLIERS CURVED UNI. 250MM	1
4670 200 2	CLAMPING DEVICE GRIP UNI. 190MM	1

Contents Art. No. 4670 200:

- 2 x grip pliers curved universal 250 mm
- 2x clamping device grip universal 190 mm
- 1x carrying case



Welding-Grip Pliers 15

- For spot welding between the recesses



Article No.	Article Description	QTY
4670 15	WELDING-GRIP PLIERS 15	1

Technical Data			
Art. No.	Length mm	Jaw width mm	Range mm
4670 15	205	70	max. 20

Welding-Grip Pliers 17

- For spot welding with inert gas between the jaws



Article No.	Article Description	QTY
4670 17	WELDING-GRIP PLIERS 17	1

Technical Data			
Art.No .	Length mm	Jaw width mm	Range mm
4670 17	215	45	max. 12

Welding-Grip Pliers 19

- Due to slender form used for workings at curves



Article No.	Article Description	QTY
4670 19	WELDING-GRIP PLIERS 19	1

Technical Data			
Art. No.	Length mm	Jaw width mm	Range mm
4670 19	210	25	max. 16

Combi-Chuck For Spring Steel/Space Saving Clamps

- Loosens every spring steel and space saving clamp due to adjustable Bowden cables
- Continuously variable adjustment makes fixation of the clamps in any position possible
- Powerful working at highest clamping pressure
- Access also to narrowest spots possible
- Patented system

Technical Data

Length pliers:	225 mm
Length Bowden cable red:	820 mm
Length Bowden cable black:	820 mm



Article No.	Article Description	QTY
4920 90	COMBI-CHUCK INCL.2 BOWD.CABLES	1

Art. No. 4920 90 Combi-Chuck Includes:• 1 x combi-pliers

- 1 x Bowden cable black for standard-spring steel-clamps
- 1 x Bowden cable red for space saving-clamps

Collet chuck combi accessories

- **article no. 4920 3:** to operate the spring clamps, whose three ends lie directly on the hose, e.g. on the petrol hoses and tank ventilation in VW, AUDI, SKODA, SEAT



Spring steel clamps

Space-saving clamps

Article No.	Article Description	QTY
4920 90 1	BOWDEN CABLE BLACK	1
4920 90 2	BOWDEN CABLE RED	1
4920 90 3	BOWDENZUG BLAU 820MM	1



Springe-hinged bracket clamps

Hose Clamp Pliers - long reach

- for the installation and removal of self-tensioning steel tape clamps and space-saving clamps at passenger car hoses installed in places that are hard to reach in the engine compartment
- pliers with locking function / arrestor (which makes it possible to open the steel tape clamp only slightly to e.g. turn the radiator hose without having this slip off the hose connection)
- clamping range 0-545 mm
- remote control by Bowden cable



Article No.	Article Description	QTY
4920 89	HOSE CLAMP PLIERS - LONG REACH	1
4920 89 1	BOWDEN CABLE FOR 4920 89	1

Knipex springe-hinged bracket pliers **FÖRCH*******

- May be used for standard, space-saving and wire brackets, as well as spring hinge rings of up to a nominal size of 70 mm
- Maximum jaw opening up to 80 mm with more than 40 mm take up length
- Rotating, universal grip inserts for securely gripping brackets in any position
- Saves energy due to extremely good transmission ratio
- Rapid adjustment by pressing button
- Fine adjustment for optimal adaptation to different work pieces
- High stability due to double-guide and box-joint design
- Clamp protection prevents injuries incurred by crushing
- Handle coated in slip-resistant plastic
- Chrome-vanadium, electro-steel; forged and oil-hardened

Article No.	Article Description	QTY
4920 7	KNIP.BRA.PLIERS KNIP 250MM	1
4920 8	KNIP.BRA.PLIERS KNIP 250MM 5*	1
4920 7 1	PAIR(2)REPL.BRACK.FOR 4920 7+8	1



4920 7



4920 8



4920 7 1

Knipex springe-hinged bracket pliers

- May be used for standard, space-saving and wire brackets, as well as spring hinge rings of up to a nominal size of 70 mm
- Maximum jaw opening up to 80 mm with more than 40 mm take up length
- Rotating, universal grip inserts for securely gripping brackets in any position
- Saves energy due to extremely good transmission ratio
- Rapid adjustment by pressing button
- Fine adjustment for optimal adaptation to different work pieces
- High stability due to double-guide and box-joint design
- Clamp protection prevents injuries incurred by crushing
- Handle coated in slip-resistant plastic
- Chrome-vanadium, electro-steel; forged and oil-hardened



Article No.	Article Description	QTY
4920 7	KNIP.SPR.-HIN.BRACK.PLIE.250MM	1
4920 7 1	PAIR(2)REPL.BRACKET F.4920 7	1

Hose Clip Pliers - Simple Version

- Art. No. 4920 10: for spring steel-clamps
- Art. No. 4920 11: for spring steel-clamps



4920 10



4920 11



4920 11 1

Article No.	Article Description	QTY
4920 10	SPRING WIRE-CLAMP PLIERS	1
4920 11	SPRING STEEL-CLAMP PLIERS	1
4920 11 1	FEDERST.SCHELLEN-KLEMMZANGE	1

Hose clamp tightener 1/4"

- clamping range: 8-70 mm
- makes working in the tightest of rooms possible
- spanner can remain on the clamps
- wide variety of clamps can be tightened
- drive with knurled screw with which the spanner can be quickly adjusted to the desired width
- using the 1/4" drive can create enough power to the clamp



Article No.	Article Description	QTY
4920 8 70	SCHLAUCHKLEMMENSP. 1/4" 8-70MM	1

Collet for Axle Boots

- For clamping stainless steel straps with prescribed torque values in combination with a torque wrench eg. VW, Audi, Seat, Opel, Ford, Skoda etc.
- Also suitable for Hytrel-Axle Boots
- 3/8" drive



Article No.	Article Description	QTY
4920 33	COLLET FOR AXLE BOOTS	1
4920 33 1	BAG(2)REPL.TIP F.COLLET	1
4920 33 2	CLAMP SCREW FOR 4920 33	1

Type W Hose Clip Pliers

- For self tensioning spring clips with flat clip ends (Type W)
- For use in e.g. Audi, VW, Seat, Skoda and fule lines



Article No.	Article Description	QTY
4920 14	SPRINGCLIPHOSECLIP.ZA.TYP "W"	1

Exhaust Manifold Clamp - Pliers

- For easy widening of exhaust clamp without overtwisting
- Used for e.g. Citroën, Renault, Peugeot, etc.
- With locking lever for adjusting in tensioned position
- Length: 300 mm



Article No.	Article Description	QTY
4920 17	AUSPUFFSCHELLEN-ZANGE	1

Hose Clip Pliers-Set

- For disconnection of cooling water-hoses, heater hoses and fuel hoses
- Material: plastic
- Can be fixed by retaining ring

Article No.	Article Description	QTY
3228 5	HOSE CLIP PLIERS SET 3 PART	1
3228 1	HOSE CLIP PLI.PLAST.UP TO 15MM	1
3228 3	HOSE CLIP PLI.PLAST.UP TO 30MM	1
3228 4	HOSE CLIP PLI.PLAST.UP TO 60MM	1

Art. No. 3228 5 :

- 1x Art. No. 3228 1 Hose clip up to 15 mm
- 1x Art. No. 3228 3 Hose clip up to 30 mm
- 1x Art. No. 3228 4 Hose clip up to 60 mm



Hose Clips SK

- For protective disconnection of rubber and plastic hoses before demounting
- Prevents the leakage of hoses and thus dirt and environmental pollution, damages and injuries due to aggressive substances, danger due to inflammable substances, etc.

Article No.	Article Description	QTY
3228 10	HOSE CLIP SK UP TO 10MM	1
3228 15	HOSE CLIP SK UP TO 15MM	1
3228 20	HOSE CLIP SK UP TO 20MM	1
3228 30	HOSE CLIP SK UP TO 30MM	1



Set of Clamp and Sealing Pliers

- for sealing of metal pipes
- prevents fluid loss
- quick to use due to clip effect
- suitable for diesel and gasoline fuels, brake fluids, cooling fluids and vehicles' hydraulic oil
- for sealing pipes of the climatisation system during repair (no moisture gets into the system)
- application for beaded pipes with union nut (brake pipes), banjo pipes (brake pipes, fuel pipes), metal pipes with flange (e.g. power steering)

Article No.	Article Description	QTY
3228 6	SET OF CLAMP AND SEALING PLIER	1
3228 6 8	PCK(2)PLIERS FOR PIPES Ø 8MM	1
3228 6 11	PCK(2)PLIERS FOR PIPES Ø 11MM	1
3228 6 13	PCK(2)PLIERS FOR PIPES Ø 13MM	1
3228 6 18	PCK(2)PLIERS FOR PIPES Ø 18MM	1

Content Art.-No. 3228 6 - each 2x:

- Art.-No. 3228 6 8 Pliers 5/16" ~ (8 mm)
- Art.-No. 3228 6 11 Pliers 3/8" ~ (11 mm)
- Art.-No. 3228 6 13 Pliers 1/2" ~ (13 mm)
- Art.-No. 3228 6 18 Pliers for banjo pipe Ø 18 mm



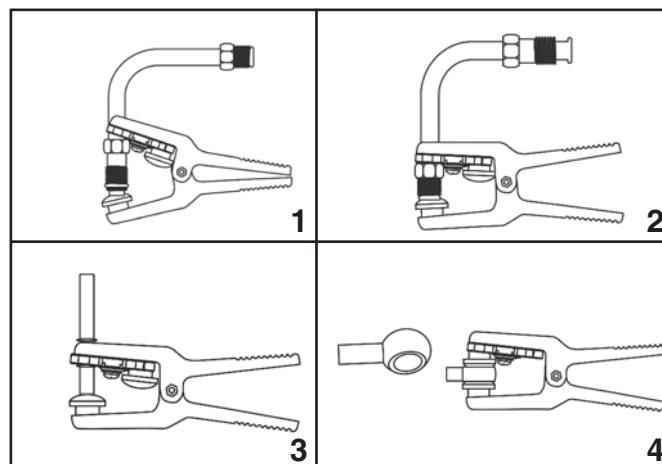
Liquid stopper pliers

- prevents liquids from leaking and the penetration of foreign bodies during repair
- use in connection with almost all car liquids
- positioning with the cable or connection in seconds
- quick choice of the correct cable or connection size by turning the turret
- for use with cables with Ø 4 to 12.7 mm
- for use with hollow screws max height 28 mm x max hole 17.5 mm

applications: suitable e.g. for fuel cables, flanged, steel-lined brake hoses, flanged fuel and aircondition cables as well as banjo screws on brake cables, power steering and gear coolant cables

fixing turret:

1. Fork 8.2 mm (5/16")
 2. Fork 10.3 mm (3/8")
 3. Fork 12.8 mm (1/2")
 4. pin Ø 17.5 mm for banjo screws
- opening: max 28 mm (pin / pin), or 38 mm (pin / gable)



Article No.	Article Description	QTY
3228 8	P(2)LIQUID STOPPER PLIERS	1
3228 8 1	LIQUID STOPPER PLIERS	1

High-leverage Knipex Rabitz pliers **FÖRCH*******

- **25 % less effort required** compared to conventional Monier pliers of the same size
- Extra-slim form for tying low-positioned steel rods
- For fixing concrete-reinforcing steel with binding wire from a roll
- Wire is twisted and cut in a single operation
- High-leverage joint, which minimises strain even when thick binding wires are used
- The strong damping of the cutting stroke after cutting through the binding wire reduces strain on tendons and muscles
- Cutting edges additionally hardened; cutting edge hardness approx. 61 HRC
- High-grade special tool steel, forged, oil-hardened



Technical Data

Article No.	Article Description	QTY
4681 300	HIGH-LEV.KNIP.DIN9242 300MM 5*	1 s

Cutting capacity:				
Length	Weight	Head width	Medium hard wire	Hard wire
300 mm	499 g	25 mm	Ø 3.8 mm	Ø 2.0 mm

Pincers

- DIN ISO 9242
- For hardest demands
- Special-tool steel, oil hardened

Article No.	Article Description	QTY
4680 180	PINCERS 180MM	1 s
4680 200	PINCERS 200MM	1 s
4680 250	PINCERS 250MM	1 s



Rabitz Pliers

- According to DIN ISO 9242
- Mechanic's nippers
- For binding of reinforcing bar
- Twisting and cutting of binding wires in one action
- Special tool steel, oil hardened

Article No.	Article Description	QTY
4681 200	RABITZ PLIERS DIN 9242 200MM	1 s
4681 220	RABITZ PLIERS DIN 9242 220MM	1 s
4681 250	RABITZ PLIERS DIN 9242 250MM	1 s
4681 280	RABITZ PLIERS DIN 9242 280MM	1 s



Hoof Pliers

- Hamburg form
- With small head and hoof nail deflection
- For peeling of bonded or spot welded sheet at bodyworks
- Special steel, oil hardened

Article No.	Article Description	QTY
4680 300 1	HOOF PLIERS 300MM	1 s



Roofer's pliers

- For roofers and plumbers
- Sharpened cutting surface
- Ideal for pinching off residue (nails, rivets, etc.)
- Special tool steel; oil-hardened

Article No.	Article Description	QTY
4681 10 220	ROOFERS PLIERS 220MM	1 s



Flat pliers for plumbers

- small seaming pliers
- with bare jaw

Article No.	Article Description	QTY
4901 450	KLEMPNER-FLACHZANGE 450G	1



Round pliers for plumbers

- to create a corner seam
- with bare jaw

Article No.	Article Description	QTY
4901 400	KLEMPNER-RUNDZANGE 400G	1



Straight seaming pliers

- for unfolding and bending sheets

Article No.	Article Description	QTY
4901 180 230	FALZZANGE 22MM,230G,180MM	1
4901 240 530	FALZZANGE 40MM,530G,240MM	1
4901 260 840	FALZZANGE 60MM,840G,260MM	1
4901 300 1000	FALZZANGE 80MM,1000G,300MM	1



Fold pliers 45° cranked

- for unfolding and bending sheets

Article No.	Article Description	QTY
4901 180 230 45	FALZZANGE 45° 22MM,230G,180MM	1
4901 240 550 45	FALZZANGE 45° 40MM,550G,240MM	1
4901 260 850 45	FALZZANGE 45° 60MM,850G,260MM	1
4901 300 100045	FALZZANGE 45° 80MM,1000G,300MM	1



Fold pliers 90° cranked

- for unfolding and bending sheets

Article No.	Article Description	QTY
4901 240 550 90	FALZZANGE 90° 40MM,550G,240MM	1
4901 260 850 90	FALZZANGE 90° 60MM,850G,260MM	1
4901 300 100090	FALZZANGE 90° 80MM,1000G,300MM	1



Seaming pliers for high seams

- to correctly produce high seams

Article No.	Article Description		QTY
4901 80	QUETSCHFALZZANGE	80MM	1



Corning seaming and clinching pliers

- to create a corner seam

Article No.	Article Description		QTY
4901 60	ECKFALZZANGE	60MM	1



Seam opening pliers

- for the fast opening of standing seams and double seams

Article No.	Article Description		QTY
4901 470	FALZAUFBIEGEZANGE	470G	1



Gutter-outlet forming pliers

- with assembly screw and sliding roll
- slot breadth 10 mm for gutter outlets of up to 40 x 6 cm

Article No.	Article Description		QTY
4901 620	RINNEISENABBIEGEZANGE	620MM	1
4901 800	RINNEISENABBIEGEZANGE	800MM	1



Ideal-Lever Sheet Scissors

- With induction hardened cutting edge
- With attached spring
- For straight and curved cuttings

Article No.	Article Description	QTY
4901 260	IDEAL-SCISSORS RIGHT 260	1
4901 260 1	IDEAL-SCISSORS LINKS 260	1



Lever Sheet Scissors Figures

- With induction hardened cutting edge
- With integrated spring
- For short straight and figure cuts

Article No.	Article Description	QTY
4901 260 10	FIGURE LEVER SCISSORS RIGHT260	1
4901 260 11	FIGURE LEVER SCISSORS LEFT 260	1



Sheet Shears Pelican

- With induction hardened cutting edge
- Especially for long and straight cuttings
- With integrated spring

Article No.	Article Description	QTY
4901 300	PELICAN-SHEET SHEARS 300	1



Sheet Shears Ideal

- With induction hardened cutting edge
- For straight and curved cuttings
- With integrated spring

Article No.	Article Description	QTY
4901 280	IDEAL-SHEET SHEARS RIGHT 280	1
4901 280 1	IDEAL-SHEET SHEARS LEFT 280	1



Ideal-Sheet Scissors

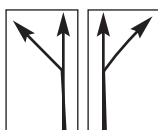
- With induction hardened cutting edge
- For short, straight and curved cuttings (wide radii)

Article No.	Article Description	QTY
4901 250	HOLE-SHEET SHEARS RIGHT 250	1
4901 250 1	HOLE-SHEET SHEARS LEFT 250	1 s



Tin Snips Set - Ideal

- small and maneuverable
- extremely compact cutting head gives the tin snips high maneuverability and allows the cutting of smallest radii
- ideal also for applications where access is difficult
- for cutting right and left radii
- optimized blade geometry and perfected relationship of the levers ensure 100 % performance at reduced effort
- practical bolt-stop combination allows convenient one-hand use
- increased cutting performance due to double leverage
- ergonomic handle for fatigue-free working
- with inductive hardened blade
- built-in return spring
- for continuous straight and character style cuts
- weight 200g



Article No.	Article Description	QTY
4901 180 2	IDEAL TIN SNIPES SET R/L 180MM	1

Content :

- 1x Ideal Snips Left 180 mm
- 1x Ideal Snips Right 180 mm



Size ratio compared to the conventional tin snip

ASK-Scraper / Blade-Set

- 52-piece in plastic case Art. No. 4415 14 16 1 with VAROsoft system tray Art. No. 9026 86
- Various blades make multifunctional usage possible
- Scraper is suitable for the removal of windscreen adhesive residues
- High-quality blades for cutting different materials e.g. wood, carton, plasterboards, carpets, plastic, polystyrene etc.

Contents:

Art.-No.	Article Description	Quantity
4415 14 16 1	EMPTY CASE SIZE B	1
4751 11	ASK-GASKET SCRAPER	1
4751 12	PK(10)BLADE 12MM ASK-SCRAPER	1
4751 13	UNIVERSAL-KNIFE MULTI	1
4751 13 1	PK(10)TRAPEZIUM KNIFE F.MULTI	1
4751 16	PK(10)BLADE 16MM ASK-SCRAPER	1
4751 16 1	PK(10)BLADE ANGL.ASK-SCRAPER	1
4751 20	PK(10)BLADE 20MM ASK-SCRAPER	1

Article No.	Article Description	QTY
4751 90	ASK-SCRAPER / BLADE-SET	1



ASK-Scraper Single-Parts

Article No.	Article Description	QTY
4751 11	ASK-GASKET SCRAPER	1 z
4751 12	PK(10)BLADE 12MM ASK-SCRAPER	1
4751 16	PK(10)BLADE 16MM ASK-SCRAPER	1
4751 16 1	PK(10)BLADE ANGL.ASK-SCRAPER	1
4751 20	PK(10)BLADE 20MM ASK-SCRAPER	1



4751 11



4751 12



4751 16



4751 16 1



4751 20

Knife Set - Single-Parts

Article No.	Article Description	QTY
4751 13	UNIVERSAL-KNIFE MULTI	1
4751 13 1	PK(10)TRAPEZIUM KNIFE F.MULTI	1



4751 13



4751 13 1

- With wooden handle and flanged clamps
- Painted blade made of special steel
- Ground working surfaces
- Produced according to DIN 8350

Article No.	Article Description	QTY
4751 2	FLAT SCRAPER 280X150X20MM	1 z
4751 3	3-POINT HOLLOW SCRAP.280X150MM	1 z
4751 3 1	3-POINT SPOON SCRAP.280X150MM	1 z



4751 2



4751 3



4751 3 1

Scraper/drawing knife set stainless steel, 5-pce

- In plastic case Art.-No. 4415 14 47 1 with VAROsoft system tray Art.-No. 9026 612
- Combined scraper/drawing knife set, scraper with two different blade lengths and strengths
- Drawing knife for the removal of adhesive crawlers at angles. As opposed to other common knives this knife has to be pulled. This makes a penetrating into the car body easier and protects the paint.
- Universally usable e.g. for the removal of underbody protection, PU-coatings, sealings, rust, TÜV-stickers etc.
- For removal of welding spots
- 2-component-security plastic handle
- Blades made out of rust-free stainless steel
- Drawing knife and scraper are both fully ground

Article No.	Article Description	QTY
4751 95	VS-SCR-DR.KN.SET STA.STEEL(5P)	1

Consisting of :

- 4751 21 Scraper stainless steel 60 x 20 x 1.2 x 190 mm
- 4751 22 Scraper stainless steel 60 x 20 x 2.5 x 190 mm
- 4751 23 Scraper stainless steel 100 x 32 x 1.2 x 230 mm
- 4751 24 Scraper stainless steel 100 x 32 x 2.5 x 230 mm
- 4751 25 ASK-Drawing knife stainless steel 210 mm



4751 21



4751 22



4751 23



4751 24



4751 25

Gasket scraper

- With plastic handle
- Special steel

Article No.	Article Description	QTY
4751 1 0	GASKETSCRAPER.MINI 140X80X23MM	1
4751 1	GASKETSCRAPER 260X150X23MM	1



4751 1 0



4751 1

Plaque scraper with handle

- with plastic handle
- blade easily changed by sliding out from the side

Article No.	Article Description	QTY
4751 8	PLAKETTENSCHABER 39X165MM	1
4751 4 2	PK(10)KLINGEN F.PLA.SCH.4751 8	1



Sticker Scraper with Handle **ECO**

- With plastic handle
- Blade easy to change by pushing out to the side

Article No.	Article Description	QTY
4751 6	STICKER SCRAPER 39X165MM	1



Mini-scraper

- plastic housing with immersible blade
- ergonomic shape
- two-component handle
- compartment for replacement blades
- blade easily changed by sliding out from the side after releasing the catch

Article No.	Article Description	QTY
4751 9	MINI-SCHABER	1
4751 9 0 1	PK(5) KLINGEN F. MINI-SCHABER	1

Delivery of scope 4751 9:

- 1 x mini-scraper
- 3 x blades



Sticker scraper

- Metal housing with retractable blade
- Blade easy to change by pushing out to the side

Article No.	Article Description	QTY
4751 7	STICKER SCRAPER 39X110MM	1



Garden clippers

- cutting performance Ø 25 mm
- interchangeable blades
- forged metal body
- chrome hook
- weight: 255 g
- Length: 215 mm



Article No.	Article Description	QTY
4759 2	GARTENSCHERE 215MM	1
4759 2 1	ERSATZKLINGE F. GARTENSCHERE	1
4759 2 2	ERSATZFEDER F. GARTENSCHERE	1

Secateurs

- for the precise cutting of moulded wood
- beech wood handle
- user-friendly handle
- blade length 180 mm
- weight: 530 g
- Length: 450 mm



Article No.	Article Description	QTY
4759 4	BUCHSBAUMSCHERE 450MM	1

Hedge clippers

- 2 sap grooves
- chrome cutting with serrated edge
- joint-friendly buffer
- cutting edge length 240 mm
- weight: 1020 g
- Length: 540 mm



Article No.	Article Description	QTY
4759 5	HECKENSCHERE 540MM	1

Pruning shears

- cutting performance Ø 35 mm
- forged cutting head
- high strength aluminium pipe
- handle with hand protection
- joint-friendly buffer
- weight: 1105 g
- Length: 750 mm



Article No.	Article Description	QTY
4759 8	ASTSCHERE 750MM	1

Cable scissors

- Made of stainless steel
- Hardness: 56 HRC
- for cutting of fine wires to 16 mm²

Article No.	Article Description	QTY
4760 145 2	ELECTR.SCISSORS STRAIGHT 145MM	1



Universal scissors

- Blades made of stainless steel
- Hardness: 56 HRC
- Finely serrated blades

Article No.	Article Description	QTY
4760 145 3	UNIVERSAL SCISSORS PROF.145MM	1



Working Scissors

- Polished blades
- Black handle, varnished

Article No.	Article Description	QTY
4760 2	WORKING SCISSOR 200MM	1 s
4760 2 1	WORKING SCISSOR 250MM	1



Hand Shears Combi

- Combi-shears for craft, workshop and household
- Ideal for fuel and water hoses
- Cuts rubber, plastic, paper/cardboard, leather, cord, cable, thin sheet and plants etc.
- With integrated spring for easy use and locking mechanism
- Total length 190 mm, cutting length 42 mm

Article No.	Article Description	QTY
4760 9	COMBI-HOSE SHEARS 190MM	1



Universal-Scissors Billy

- For thin sheet, leather, wood veneer, floor coverings, PVC, carpeted floors, foils, plastics etc.

Article No.	Article Description	QTY
4760 3 1	ALL-PURPOSE SCISSORS 215MM	1



Hand Shears Profi - Bully

- For profiles made of wood, plastic, rubber, for cutting cables, fuel and hose lines
- Max. cutting diameter: 17 mm

Article No.	Article Description	QTY
4760 3	PROFILE SHEARS BULLY 180MM	1



Mitre Shears

- For cutting profiles made of plastic, rubber and wood
- Ideally suitable for cutting slats
- Marked with 45°, 30°, 15° and 0°
- Trapezium shape universal blade
- Cutting depth at 90°: 60 mm
- With PVC – handles

Article No.	Article Description	QTY
4760 45 0	MITRE SHEARS	1



Cutting knife, 9 mm **FÖRCH*******

- High-quality design made from die-cast zinc
- Stainless steel blade guides
- Blade feed for two blades
- Blade locking mechanism using lock slide
- Tool-free blade change
- Ergonomic shape
- With protective cap
- Integrated snap-off aid



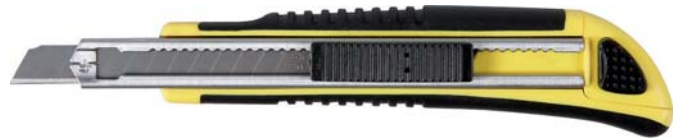
Article No.	Article Description	QTY
4762 9 5	CUTTING KNIFE 9MM 5*	1

Scope of delivery:

- 3 x snap-off blades, 9 mm

Magazine cutter knife 9 mm plastic 2K

- With a two-component casing for a secure grip
- Simple blade ejection by pushing the slider forwards
- Automatic blade replacement
- Automatic fixation for safe work
- Blade magazine for up to 6 blades



Article No.	Article Description	QTY
4762 9 3	MAGAZINE CUTTERKNIFE 9MM 2-K	e 12

Scope of delivery:

- 3x snap-off blades 9 mm

Cutter knife 9 mm plastic 2K

- With a two-component casing for a secure grip
- Tool-less blade change
- Stable blade guiding rail in stainless steel
- Blade magazine for two blades
- Integrated snap-off aid



Article No.	Article Description	QTY
4762 9 2	CUTTERKNIFE 9MM 2-K	1

Scope of delivery:

- 3x snap-off blades 9 mm

cutting knife with clamping wheel,9 mm

- breakable cutting blade
- blade fixed in cutting settings using clamp system - feeding mechanism cannot be accidentally changed
- easy to change the blade without a screwdriver
- die-cast metal body for increased stability and lower weight



Article No.	Article Description	QTY
4762 9 1	CUTTING KNIFE 9MM W.CL.WHEEL	1 f

Cutting Knife Blade 9 mm **ECO**

- Universal knife with 9 mm blade, metal design with belt clip



Article No.	Article Description	QTY
4762 9	CUTTING KNIFE 9MM	1

18 mm cutting knife FÖRCH*****

- High quality design made from cast zinc
- Robust stainless steel blade guide
- Easy blade removal by pressing the locking slide
- Automatic blade reloading
- Blade magazine for up to 6 blades
- Ergonomic shape

Article No.	Article Description	QTY
4762 18 5	CUTTING KNIFE 18MM 5*	1

Scope of delivery:

- 3x snap-off blades, 18 mm



Knife Type 6

- Safety hold for the knife during the working process
- For precise work
- Handy plastic housing, blade 18 mm
- 3 blades in the handle
- **Replacement blades:** 4762 10 8, 4762 10 40

Article No.	Article Description	QTY
4762 6	FÖRCH KNIFE 18MM RETR.BLADE	1 D



Cutter knife 18 mm

- Stable plastic casing
- Sturdy metal blade guiding rail
- Blade magazine for two blades
- Ergonomic form
- Automatic fixation for safe work

Article No.	Article Description	QTY
4762 18 3	CUTTERKNIFE 18MM	1

Scope of delivery:

- 1x snap-off blade 18 mm



Cutter knife 18 mm 2K

- Plastic casing with rubber cladding for a secure grip
- Sturdy metal blade guiding rail
- Ergonomic form
- Automatic fixation for safe work

Article No.	Article Description	QTY
4762 18 2	CUTTERKNIFE 18MM 2-K	e 24

Scope of delivery:

- 1x snap-off blade 18 mm



Knife Type 4 1

- Knife with patented clamping latch - safety hold for the knife during the working process
- For precise work
- Length 165 mm
- Handy aluminium handle, cutter 18 mm
- **Replacement blades:** 4762 10 8, 4762 10 40

Article No.	Article Description	QTY
4762 41	KNIFE TYPE 4 1 / 110018	1 d



Cutter blade 18mm with locking wheel **ECO**

- Plastic housing
- Robust metal blade guid
- Blade locking in the form of locking wheel
- Blade magazine for up to 3 blades
- Ergonomic shape
- Integrated snap-off aid

Article No.	Article Description	QTY
4761 2	CUTTER BL. 18MM W.LOCK.WH.ECO	1



Universal Knife **ECO**

- Made of plastic
- With cutters
- **Replacement blade:** 4761 10

Article No.	Article Description	QTY
4761 1	UNIVERSAL KNIFE WITH CUTTER 1	1



Cutter Blade 9 mm **ECO**

- Plastic housing
- Integrated snap-off aid
- Lockable blade

Article No.	Article Description	QTY
4762 9 60	PACK(60)CUTTER BLADE 9MM ECO	1



Magazine cutter knife 25 mm, plastic 2K

- Plastic casing with rubber cladding for a secure grip
- Sturdy metal blade guiding rail
- Simple blade ejection by pushing the slider forwards
- Automatic blade replacement
- Blade magazine for up to 3 blades
- Ergonomic form



Article No.	Article Description	QTY
4762 25 1	MAGAZINE CUTTERKNIFE 25MM 2-K	1

Scope of delivery:

- 3x snap-off blades 25 mm

Cutter blade 25 mm with locking wheel

- Plastic casing with rubber coating for secure hold
- Robust metal blade guide
- Blade locking in the form of locking wheel
- Ergonomic shape



Article No.	Article Description	QTY
4762 25	CUTTING KNIFE 25MM LOCK.WHEEL	1

Safety knife **FÖRCH*******

- High-quality design made from cast zinc
- Automatic blade retraction
- Tool-free blade removal
- Internal blade magazine
- Ergonomic shape

Article No.	Article Description	QTY
4762 12 5	SAFETY KNIFE 5*	1

Scope of delivery:

- 3x trapeze blades



Safety knife, plastic 2 K

- Plastic ABS casing with rubber grip inserts
- Ergonomic, non-slip design with a sliding lever on the side
- With retraction spring
- As soon as the sliding lever is released, the blade is immediately retracted into the casing
- With sturdy metal guide rail

Article No.	Article Description	QTY
4762 12 1	SAFETY KNIFE PLASTIC 2-K	1

Scope of delivery:

- 1x trapezoidal blade



Carpet knife **FÖRCH*******

- High-quality design made from cast zinc
- Manual blade return
- Tool-free blade replacement
- Internal blade magazine
- Ergonomic shape

Article No.	Article Description	QTY
4762 8 5	CARPET KNIFE TRAP/HOOK 5*	1

Scope of delivery:

- 3x trapeze blades



Carpet knife ZD

- Zinc die cast model
- Manual blade retraction
- Blade replacement by means of a screwdriver
- Ergonomic form

Article No.	Article Description	QTY
4762 8 1	CARPET KNIFE ZD	1

Scope of delivery:

- 1x trapezoidal blade



Universal knife **FÖRCH*******

- High-quality design made from cast zinc
- Tool-free blade removal
- Internal blade magazine
- Ergonomic shape

Article No.	Article Description	QTY
4762 11 5	UNIVERSAL KNIFE TRAP/HOOK 5*	1

Scope of delivery:

- 3x trapeze blades



Universal knife ZD

- Zinc die cast model
- Blade replacement by means of a screwdriver
- Internally located blade magazine
- Ergonomic form

Article No.	Article Description	QTY
4762 11 1	UNIVERSAL KNIFE ZD	1

Scope of delivery:

- 1x trapezoidal blade



Replacement blades, titanium FORCH

- Excellent cut, also with woven material or jute backing
- Long service life and fewer blade replacements compared to standard blades
- Low friction between blade and material to be cut

Article No.	Article Description	QTY
4762 9 10 5	PCK(10)SNAPOFF BL.9MM TITAN 5*	1
4762 18 10 5	PCK(10)SNAPOFF BL18MM TITAN 5*	1
4762 25 10 5	PCK(10)SNAPOFF BL25MM TITAN 5*	1
4762 20 10 5	PCK(10)TRAPEZOIDBL. TITAN 5*	1
4762 30 10 5	PCK(10)HOOK BLADES TITAN 5*	1



4762 9 10 5



4762 18 10 5



4762 25 10 5



4762 20 10 5



4762 30 10 5

Replacement blades

- clean cutting of cardboard, paper, foils, etc.
- simple and rapid handling thanks to intelligent packaging

Article No.	Article Description	QTY
4762 50 10	PK(10)RETR.BLADE PROF 9MM	1
4762 50 100	PK(100)RETR.BLADE PROF 9MM	1
4762 40 10	PK(10)RET.BLADE TYPE1 PROF.18MM	1
4762 40 100	PK(100)RET.BLA TYPE1 PROF.18MM	1
4762 25 10	PK(10)RETR.BLADE 25MM 1-11-325	1
4762 20 10	(PK10)TRAP.BLADES TYPE 2-5	1
4762 20 100	(PK100)TRAP.BLADES TYPE 2-5	1
4762 30 10	(PK10)HOOK BLADES TYPE 2-5	1
4762 30 100	(PK100)HOOK BLADES TYPE 2-5	1



4762 50 10



4762 50 100



4762 40 10 / 4762 40 100



4762 25 10



4762 20 10



4762 20 100



4762 30 10



4762 30 100

Snap-off blades **ECO**

- Blade art.no. 4762 22 10, 4767 22 100, 4762 32 10 and 4762 32 100 suitable for cutter knife art.no. 4762 3, 4762 4 and 4762 5

Article No.	Article Description	QTY
4761 10	BLI(10)SNAP-OFF BL. 18MM ECO	e 50
4762 10 40	PK(100)SNAPOFFBLADE 18MM ECO	1
4762 22 10	PCK(10)TRAPEZOIDBLADE TP 2-5	1
4762 22 100	PCK(100)TRAPEZOIDBLADE TP 2-5	1
4762 32 10	PCK(10) HAKENKLINGEN TYP 2-5	1
4762 32 100	PCK(100)HOOKEBLADES TYPE 2-5	1



Foil Cutter

- Foil cutter 4-fold with rotatable blade
- integrated plastic spring
- the blades can be changed without tools

Article No.	Article Description	QTY
5419 99	FOIL CUTTER	1 z
4751 9 0 2	PK(10)BLADES F.FOIL CUTTER	1



Combination-Knife 2 in 1

- Sport and trapezium blade
- Blade slider made of zinc for strength and durability
- Toothed sports blade with 75 mm (3") length and trapezium blade
- Quick blade change without other tools
- Ergonomic handle - sports blade is easy to open with one hand
- Blade slider of the standard blade is easy to operate with thumb
- Safety interlock of sports blade - no unintentional open
- Interlock mechanism prevents simultaneous opening of both blades

Article No.	Article Description	QTY
4762 75	COMBINATION KNIFE 2 IN 1	1



Stainless steel pocket knife

Art.-no. 4765 1 7:

- With blade, scissors, tin opener, bottle opener with slotted screwdriver, corkscrew, Phillips screwdriver, file
- Dimension: 9 x 1,5 x 2,5 cm

Art.-no. 4765 1 11:

- With blade, scissors, Wood saw, fish scaler with hook remover, tin opener, bottle opener with slotted screwdriver, corkscrew, Phillips screwdriver, file, spike, sailmaker's needle
- Dimension: 9 x 2,5 x 2,5 cm

Article No.	Article Description	QTY
4765 1 7	PCKT KNIFE STAINL.STEEL 7PARTS	1
4765 1 11	PCKT KNIFE STAINL.STEEL 11PARTS	1



Knife/Sport Profi

- Strong blade with smooth and serrated edge on the knife
- For cutting strong cords, hoses, plastic foils, cartons etc.
- Stainless steel according to DIN with matted surfaces
- Ergonomically formed handle
- High-quality connections guarantee long service life

Article No.	Article Description	QTY
4765 1	KNIFE/SPORT PROFI	1



Cable Knife Profi

- For cutting cables, insulation tapes, cords etc.
- Ground notch for cable insulation
- Stainless steel according to DIN with matted surface
- Ergonomically formed handle
- High-quality mechanical connections guarantee long service life



Article No.	Article Description	QTY
4765 2	CABLE KNIFE PROFI	1

Leather Bag

- Suitable for all FÖRCH-Profi knives



Article No.	Article Description	QTY
4765 10	BELT BAG FOR PROFI KNIFE	1

Knife sheath

- Made from sturdy plastic
- With clip buckle for belts
- Suitable for: Art. no.: 4762 6 Art. no.: 4762 8 5 Art. no.: 4762 11 5 Art. no.: 4762 12 5 Art. no.: 4762 18 5



Article No.	Article Description	QTY
4762 100	KNIFE SHEATH	1

Handwerkermesser

- Schneide in mehreren Schritten geschliffen und auf Leder abgezogen
- Klinge aus 2,5 mm starkem Carbonstahl der Härte 58-Co HRC
- Schaft und Etui aus besonders schlagfestem PP-Kunststoff
- Befestigung an Knopf oder Gürtel möglich



Article No.	Article Description	QTY
4762 21	HW-MESSER 21CM	1

Leatherman Wave® FÖRCH*****

- 17 tools: pointed pliers, normal pliers, wire cutter, hard wire cutter, knife, serrated knife, saws, scissors, wood and metal files, diamond-coated files, big bit holder, small bit holder, medium-sized screwdriver, ruler (19 cm / 8 inch), bottle opener, can opener, stripping blade, lanyard ring
- incl. 2 bits
- leather case
- length: 10 cm
- weight: 241 g
- 25 year guarantee

Article No.	Article Description	QTY
4764 10	LEATHERMAN WAVE 5*	1



Leatherman Wingman® FÖRCH*****

- 14 tools: pointed pliers with spring action, normal pliers with spring action, wire cutter, combi-blade, cutting hook for plastic, wood / metal file, scissors, small screwdriver, big screwdriver, Phillips screwdriver, ruler (2.54 cm), bottle opener, can opener, stripping blade
- removable fixing clip
- length: 9.7 cm
- weight: 198 g
- 25 year guarantee

Article No.	Article Description	QTY
4764 12	LEATHERMAN WINGMAN 5*	1



Leatherman Rebar® FÖRCH*****

- 17 tools: pointed pliers, normal pliers, wire cutter, hard wire cutter, crimping pliers, knife, serrated knife, wood / metal file, saw, small screwdriver, big screwdriver, Phillips screwdriver, awl with thread loop, ruler (20 cm), bottle opener, can opener, stripping blade
- lanyard ring
- leather case
- length: 10.16 cm
- weight: 190 g
- 25 year guarantee

Article No.	Article Description	QTY
4764 13	LEATHERMAN REBAR 5*	1



Leatherman Super Tool® 300 **FÖRCH**★★★★

- 19 tools: pointed pliers, normal pliers, wire cutter, crimping pliers, knife, serrated knife, cross-cut file, saw, screwdriver (8 mm), screwdriver (5.5 mm), screwdriver (3.2mm), Phillips screwdriver, awl with eye, ruler (11.5 cm), bottle opener, can opener, stripping blade
- lanyard ring
- leather case
- length: 11.5 mm
- weight: 272 g
- 25 year guarantee



Article No.	Article Description	QTY
4764 14	LEATHERMAN SUPER TOOL 300 5*	1

Leatherman Surge® **FÖRCH**★★★★★

- 19 tools: pointed pliers, normal pliers, wire cutter, hard wire cutter, stranded wire cutter, crimping pliers, knife, serrated knife, blade exchanger, scissors, saw, wood / metal file, diamond-coated file, big bit holder, small bit holder, 5/16" screwdriver (8 mm), awl eye, ruler (22 mm), bottle opener, can opener, stripping blade, lanyard ring
- incl. 2 bits (watchmaker's screwdriver with Phillips flat tip, Phillips screwdriver 1 and 2, flat slot screwdriver (4.5 mm))
- lanyard ring
- leather case
- length: 11.5 cm
- weight: 335 g
- 25 year guarantee



Article No.	Article Description	QTY
4764 16	LEATHERMAN SURGE 5*	1

Leatherman OHT® **FÖRCH**★★★★★

- 16 tools: pointed pliers with spring action, normal pliers with spring action, wire cutter, hard wire cutter, knife, serrated knife, saw, bottle opener, can opener, oxygen tank wrench, V-belt cutter, Phillips screwdriver, screwdriver (8 mm), screwdriver (5.5 mm), screwdriver (3.2 mm), cleaning rod / brush adapter
- can be used single-handed
- integrated lanyard ring
- nylon case
- length: 11.5 cm
- weight: 280 g
- 25 year guarantee



Article No.	Article Description	QTY
4764 16	LEATHERMAN SURGE 5*	1

Knife

- Insulation as per DIN EN 60900
- Safety handle made from tough, elastic and durable plastic
- With protective cap

Art. no. 4766 1 210:

- With a sturdy, straight blade
- Straight cutting edge

Art. no. 4766 2 200:

- With a sturdy, partly insulated and straight blade
- Straight cutting edge

Art. no. 4766 3 200:

- With a sturdy blade
- Hook-shaped cutting edge
- For slitting and stripping

Art. no. 4766 4 182:

- With a sturdy, straight blade
- Hook-shaped cutting edge

Art. no. 4766 5 205:

- With a sturdy blade
- Hook-shaped cutting edge
- Suitable for sector cables

Art. no. 4766 6-200:

- With a sturdy blade
- Bowed cutting edge

Art. no. 4766 7 165:

- With a sturdy blade
- Hook-shaped and partly insulated cutting edge

Art. no. 4766 8 195:

- With a sturdy blade
- Short and angled cutting edge for fine cable work

Art. no. 4766 9 200:

- With sturdy blade
- Narrow and straight cutting edge



4766 1 210



4766 2 200



4766 3 200



4766 4 182



4766 5 205



4766 6 200



4766 7 165



4766 8 195



4766 9 200

Article No.	Article Description	QTY
4766 1 210	K-KNIFE 210MM	1
4766 2 200	K-KNIFE KL.PAR.IS.200 MM	1
4766 3 200	K-KNIFE W.HOOK CL.200 MM	1
4766 4 182	DISMANTLE KNIFE 182MM	1
4766 5 205	PAPER SECT.KNIFE 205MM	1
4766 6 200	KNIFE 200MM	1
4766 7 165	KNIFE 165MM	1
4766 8 195	K-KNIFE 195MM	1
4766 9 200	KNIFE 200MM	1

Technical Data

B mm	S mm	L mm
18,5	50,0	210,0
18,5	50,0	210,0
28,0	40,0	200,0
19,0	35,0	182,0
19,0	50,0	205,0
12,0	50,0	200,0
21,0	35,0	165,0
13,0	45,0	195,0
11,0	50,0	200,0



Multi-purpose File **FÖRCH*******



- According to DIN 7261
- With plastic handle
- Flat-hand
- 2 different sides:
 - 1) Scraping, high material removal
 - 2) Smoothing, for fine surface treatment
- Appropriate for steel (and stainless steel), non-ferrous and soft metals, plastics, wood

Article No.	Article Description	QTY
4745 200	MULTI-PURPOSE FILE 200MM	1 ü
4745 250	MULTI-PURPOSE FILE 250MM	1 ü

Technical Data

Article No.	Cut length	Cross section
4745 200	200 mm	20 x 5 mm
4745 250	250 mm	25 x 6.3 mm

Flat-Hand File **FÖRCH*******



- According to DIN 7261
- With plastic handle
- Cut 1 = rough, cut 2 = middle, cut 3 = fine

Article No.	Article Description	QTY
4740 200 1	FILE FLAT-HAND 200MM CUT 1	1 ü
4740 200 2	FILE FLAT-HAND 200MM CUT 2	1 ü
4740 200 3	FILE FLAT-HAND 200MM CUT 3	1 ü
4740 250 1	FILE FLAT-HAND 250MM CUT 1	1 ü
4740 250 2	FILE FLAT-HAND 250MM CUT 2	1 ü
4740 250 3	FILE FLAT-HAND 250MM CUT 3	1
4740 300 1	FILE FLAT-HAND 300MM CUT 1	1 ü
4740 300 2	FILE FLAT-HAND 300MM CUT 2	1
4740 300 3	FILE FLAT-HAND 300MM CUT 3	1 ü

Technical Data

Article No.	Cut length	Cross section
4740 200 1	200 mm	20 x 5 mm
4740 200 2	200 mm	20 x 5 mm
4740 200 3	200 mm	20 x 5 mm
4740 250 1	250 mm	25 x 6.3 mm
4740 250 2	250 mm	25 x 6.3 mm
4740 250 3	250 mm	25 x 6.3 mm
4740 300 1	300 mm	30 x 7 mm
4740 300 2	300 mm	30 x 7 mm
4740 300 3	300 mm	30 x 7 mm

Half-Round File **FÖRCH*******



- According to DIN 7261
- With plastic handle
- Cut 1 = rough, cut 2 = middle, cut 3 = fine

Article No.	Article Description	QTY
4743 200 1	FILE HALF-ROUND 200MM CUT 1	1 ü
4743 200 2	FILE HALF-ROUND 200MM CUT 2	1 ü
4743 200 3	FILE HALF-ROUND 200MM CUT 3	1 ü
4743 250 1	FILE HALF-ROUND 250MM CUT 1	1 ü
4743 250 2	FILE HALF-ROUND 250MM CUT 2	1 ü
4743 300 1	FILE HALF-ROUND 300MM CUT 1	1 ü

Technical Data

Article No.	Cut length	Cross section
4743 200 1	200 mm	21 x 6 mm
4743 200 2	200 mm	21 x 6 mm
4743 200 3	200 mm	21 x 6 mm
4743 250 1	250 mm	25 x 7 mm
4743 250 2	250 mm	25 x 7 mm
4743 300 1	300 mm	30 x 9 mm

Round File **FÖRCH*******



- According to DIN 7261
- With plastic handle
- Cut 1 = rough, cut 2 = middle, cut 3 = fine

Article No.	Article Description	QTY
4744 200 1	FILE ROUND 200MM CUT 1	1 ü
4744 200 2	FILE ROUND 200MM CUT 2	1 ü
4744 200 3	FILE ROUND 200MM CUT 3	1 ü
4744 250 1	FILE ROUND 250MM CUT 1	1 ü
4744 250 2	FILE ROUND 250MM CUT 2	1 ü
4744 250 3	FILE ROUND 250MM CUT 3	1 ü
4744 300 1	FILE ROUND 300MM CUT 1	1

Technical Data

Article No.	Cut length	Ø
4744 200 1	200 mm	8 mm
4744 200 2	200 mm	8 mm
4744 200 3	200 mm	8 mm
4744 250 1	250 mm	10 mm
4744 250 2	250 mm	10 mm
4744 250 3	250 mm	10 mm
4744 300 1	300 mm	12.5 mm



Triangular File **FÖRCH*******



- According to DIN 7261
- With plastic handle

Article No.	Article Description	QTY
4741 200 1	FILE TRIANGULAR 200MM CUT 1	1 ü
4741 200 2	FILE TRIANGULAR 200MM CUT 2	1 ü
4741 250 1	FILE TRIANGULAR 250MM CUT 1	1 ü
4741 250 2	FILE TRIANGULAR 250MM CUT 2	1 ü

Technical Data

Article No.	Cut length	Width
4741 200 1	200 mm	14 mm
4741 200 2	200 mm	14 mm
4741 250 1	250 mm	17 mm
4741 250 2	250 mm	17 mm



Square File **FÖRCH*******



- According to DIN 7261
- With plastic handle

Article No.	Article Description	QTY
4742 200 1	FILE SQUARE 200MM CUT 1	1 ü
4742 200 2	FILE SQUARE 200MM CUT 2	1 ü
4742 250 1	FILE SQUARE 250MM CUT 1	1
4742 250 2	FILE SQUARE 250MM CUT 2	1

Technical Data

Article No.	Cut length	Width
4742 200 1	200 mm	8 mm
4742 200 2	200 mm	8 mm
4742 250 1	250 mm	10 mm
4742 250 2	250 mm	10 mm



File-Set **FÖRCH*******

- According to DIN 7261
- With plastic handle

Art. No. 4749 200:

- 5-piece
- 1x flat, round, half-round, triangular and square file

Art. No. 4749 250:

- 3-piece
- 1x flat, round and half round file

Art. No. 4749V 1:

- In VAROsoft tool deposit Art. No. 9026 721
- 5-piece
- 1x flat, round, half-round, triangular and square file

Article No.	Article Description	QTY
4749 200	FILE SET 5-PIECE 200MM H.2	1
4749 250	FILE SET 3-PIECE 250MM H.1	1
4749V 1	VS-FILE SET 5-PIECE 200MM H.2	1

(Length mm - cut)



4749 200



4749 250



4749V 1

File Brush

- Brush length: 110 mm
- Width: 40 mm

Article No.	Article Description	QTY
4746 1	FILE BRUSH	1



File Handle **FÖRCH*******

- Made of impact and skid-resistant plastic
- Handy
- Reduces fatigue and blistering
- Enables firm and secure clasp of the file

Article No.	Article Description	QTY
4746 200 350	FEILENGRIFFE F. 200-350 MM 5*	1

(for files mm)



Rasp Flat-Hand **FÖRCH*******



- DIN 7263
- With plastic handle

Article No.	Article Description	QTY
4770 200 2	RASP FLAT-HAND 200MM CUT 2	1 ü
4770 250 2	RASP FLAT-HAND 250MM CUT 2	1 ü

Technical Data

Article No.	Cut length	Cross section
4770 200 2	200 mm	20 x 5 mm 
4770 250 2	250 mm	25 x 6.3 mm

Rasp Half-Round **FÖRCH*******



- DIN 7263
- With plastic handle

Article No.	Article Description	QTY
4771 200 1	RASP HALF-ROUND 200MM CUT 1	1 ü
4771 250 2	RASP HALF-ROUND 250MM CUT 2	1 ü

Technical Data

Article No.	Cut length	Cross section
4771 200 1	200 mm	20 x 5.5 mm 
4771 250 2	250 mm	25 x 7 mm

Rasp Round **FÖRCH*******



- DIN 7263
- With plastic handle

Article No.	Article Description	QTY
4772 200 2	RASP ROUND 200MM CUT 2	1 ü
4772 250 2	RASP ROUND 250MM CUT 2	1 ü

Technical Data

Article No.	Cut length	Ø
4772 200 2	200 mm	8 mm 
4772 250 2	250 mm	10 mm

Warding Files-Set

- 6-piece
- Length 100 mm
- Cut 2

Article No.	Article Description	QTY
4749 1	WARDING FILES SET 6PART	1

- 1x Flat-pointed, round, half-round, square, triangular, flat-hand



Contact Files-Set

- 6-piece
- Length: 150 mm

Article No.	Article Description	QTY
4749 2	CONTACT FILES SET 6PART	1

Content:

- 6 pieces flat-hand



Bodywork File

- File holder - concave and convex adjustable
- File blades - double-sided and radial shaped, flexible

4748 350 1:

- Cutting version rough

4748 350 2:

- Cutting version medium

Article No.	Article Description	QTY
4748 350	FILE HOLDER 350MM	1
4748 350 1	SQUARE FILE 350MM CUT 1	1
4748 350 2	SQUARE FILE 350MM CUT 2	1

(L mm)



Thread Files

- For the repair of damaged internal and external threads

Article No.	Article Description	QTY
4965 1	THREAD FILE METRC 0,80-3,0	1
4965 10	THREAD FILE IMPERIAL 24-11	1



Technical Data

Art. No.	For thread lead	For screws	Length mm
4965 1	metric ISO 0.80 - 3.0 mm	M5 - M30	230
4965 10	Americ. inch 24 - 11 runs"	UNF: 5/16" - 1 1/4" UNC: 1/4" - 5/8"	230

Hollow Punch Round

- DIN 7200
- With bare whistle
- Conically undercut in the inside

Article No.	Article Description	QTY
4739 4	HOLLOW PUNCH FOR ROUND EYE.4MM	1
4739 5	HOLLOW PUNCH FOR ROUND EYE.5MM	1
4739 6	HOLLOW PUNCH FOR ROUND EYE.6MM	1
4739 8	HOLLOW PUNCH FOR ROUND EYE.8MM	1
4739 10	HOLLOW PUNCH F.ROUND EYE.10MM	1
4739 11	HOLLOW PUNCH F.ROUND EYE.11MM	1
4739 12	HOLLOW PUNCH F.ROUND EYE.12MM	1
4739 14	HOLLOW PUNCH F.ROUND EYE.14MM	1
4739 16	HOLLOW PUNCH F.ROUND EYEL.16MM	1
4739 18	HOLLOW PUNCH F.ROUND EYE.18MM	1
4739 20	HOLLOW PUNCH F.ROUND EYEL.20MM	1
4739 25	HOLLOW PUNCH F.ROUND EYEL.25MM	1
4739 30	HOLLOW PUNCH F.ROUND EYE.30MM	1
4739 36	HOLLOW PUNCH F.ROUND EYEL.36MM	1
4739 40	HOLLOW PUNCH F.ROUND EYEL.40MM	1

(Ø mm)



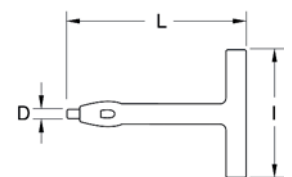
Hollow punch, 2-way insulation

- Dipped insulation as per DIN EN 60900
- With T-handle
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4997 7 4 100	HOLL.PUNCH Ø4 X 100MM	1

Technical Data		
I	D	L
mm	mm	mm
90,0	4,0	100,0



Hollow Punch Oval

- DIN 7200
- With bare whistle
- Conically undercut in the inside

Article No.	Article Description	QTY
4739 2 17	HOLLOW PUNCH OVAL EYEL.17X11MM	1
4739 2 225	HOLL.PUNCH OVAL EYEL.22.5X13MM	1
4739 2 42	HOLLOW PUNCH OVAL EYEL.42X22MM	1



Hollow Punch Angular

- DIN 7200
- With bare whistle
- Conically undercut in the inside

Article No.	Article Description	QTY
4739 3 27	HOLL.PUNCH F.SLOTT.EYEL.27X8MM	1
4739 3 38	HOLL.PUNCH F.SLOTT.EYEL.38X8MM	11



Revolver Punch Pliers

- Made of high-strength sheet steel pressed
- With 6 perforated whistles 2,0/ 2,5/ 3,0/ 3,5/ 4,0/ 4,5 mm
- For stamping boards, leather textiles etc.
- Length 220 mm

Article No.	Article Description	QTY
4760 4	REVOLVER-HOLLOW PUNCH	1 s



Cushion Clamp Pliers

Article No.	Article Description	QTY
4760 5	CUSHION CLAMP PLIERS 170MM	1



Cushion Clamp

Article No.	Article Description	QTY
4760 5 1	CUSHION CLAMP COPPERED 21MM	HR 500



Cushion Clamp-Assortment

- Size: 195 x 190 x 45 mm
- Weight: 560 g

Contents:

Art.-No.	Article Description	Quantity
4415 14 16 1	EMPTY CASE SIZE B	1
4760 5	CUSHION CLAMP PLIERS 170MM	1
4760 5 1	CUSHION CLAMP COPPERED 21MM	100

Article No.	Article Description	QTY
4760 5 2	CUSHION CLAMP ASSORTMENT	1



Letter Punch

- Latin numerals
- Writing according to DIN 1451
- Edged engraved

Article No.	Article Description	QTY
4735 2	PUNCH LETTER SET 2MM	1
4735 3	PUNCH LETTER SET 3MM	1
4735 4	BLOW LETTER SET 4MM	1
4735 5	PUNCH LETTER SET 5MM	1
4735 6	PUNCH LETTER SET 6MM	1
4735 8	PUNCH LETTER SET 8MM	1
4735 10	PUNCH LETTER SET 10MM	1
4735 12	PUNCH LETTER SET 12MM	1

(Height mm)



Number Punch

- Arabical numerals
- Writing according to DIN 1451
- Edged engraved

Article No.	Article Description	QTY
4736 2	BLOW COUNT SET 2MM	1
4736 3	BLOW COUNT SET 3MM	1
4736 4	BLOW COUNT SET 4MM	1
4736 5	BLOW COUNT SET 5MM	1
4736 6	BLOW COUNT SET 6MM	1
4736 8	BLOW COUNT SET 8MM	1
4736 10	BLOW COUNT SET 10MM	1
4736 12	BLOW COUNT SET 12MM	1

(Height of figures mm)



Engineer's hammer in accordance with DIN **FÖRCH**★★★★

- The extremely shock-resistant hickory handle dissipates almost all the vibrations arising during the impact
- In accordance with DIN 1041
- The bonded full-length handle sleeve and the round saddle key guarantee an extremely high quality standard and safety



Article No.	Article Description	VPE
4720 5 100	ENGINEER HAMMER DIN 100G 5*	1 d
4720 5 200	ENGINEER HAMMER DIN 200G 5*	1 d
4720 5 300	ENGINEER HAMMER DIN 300G 5*	1 d
4720 5 400	ENGINEER HAMMER DIN 400G 5*	1 d
4720 5 500	ENGINEER HAMMER DIN 500G 5*	1 d
4720 5 600	ENGINEER HAMMER DIN 600G 5*	1 d
4720 5 800	ENGINEER HAMMER DIN 800G 5*	1 s
4720 5 1000	ENGINEER HAMMER DIN 1000G 5*	1 s
4720 5 1500	ENGINEER HAMMER DIN 1500G 5*	1 s
4720 5 2000	ENGINEER HAMMER DIN 2000G 5*	1 s

Technical Data

Length	Weight
260 mm	100 g
280 mm	200 g
300 mm	300 g
310 mm	400 g
320 mm	500 g
330 mm	600 g
350 mm	800 g
360 mm	1,000 g
380 mm	1,500 g
400 mm	2,000 g

Replacement Handle - Oval Intake **FÖRCH*******

- For engineer's hammer according to DIN 1041
- With integrated handle protection sleeve



Article No.	Article Description	QTY
4720 100 2	REPL.HANLDE W.SLEEVE PROT.100G	1
4720 200 2	REPL.HANLDE W.SLEEVE PROT.200G	1 z
4720 300 2	REPL.HANLDE W.SLEEVE PROT.300G	1 z
4720 400 2	REPL.HANLDE W.SLEEVE PROT.400G	1 z
4720 500 2	REPL.HANLDE W.SLEEVE PROT.500G	1 z
4720 600 2	REPL.HANLDE W.SLEEVE PROT.600G	1 z
4720 800 2	REPL.HANLDE W.SLEEVE PROT.800G	1 z
4720 1000 2	REP.HANLDE W.SLEEVE PROT.1000G	1 z
4720 1500 2	REP.HANLDE W.SLEEVE PROT.1500G	1 z
4720 2000 2	REP.HANLDE W.SLEEVE PROT.2000G	1 z

Replacement Handle

- For engineer's hammer
- Oval intake

Article No.	Article Description	QTY
4720 400 1	REP.HANDLE ENGINEER'S HAM.400G	1
4720 800 1	REP.HANDLE ENGINEER'S HAM.800G	1



Machinist's hammer

- machinist's hammer with plastic sleeve
- tested according to VPA / GS



Article No.	Article Description	QTY
4720 2 100	MACHINIST'S HAMMER 100G	e 6
4720 2 200	MACHINIST'S HAMMER 200G	e 6
4720 2 300	MACHINIST'S HAMMER 300G	e 6
4720 2 400	MACHINIST'S HAMMER 400G	e 6
4720 2 500	MACHINIST'S HAMMER 500G	1
4720 2 600	MACHINIST'S HAMMER 600G	e 6
4720 2 800	MACHINIST'S HAMMER 800G	e 6
4720 2 1000	MACHINIST'S HAMMER 1000G	e 6
4720 2 1500	MACHINIST'S HAMMER 1500G	1 s
4720 2 2000	MACHINIST'S HAMMER 2000G	1 s

Technical Data

length	weight
260 mm	100 g
280 mm	200 g
300 mm	300 g
310 mm	400 g
320 mm	500 g
330 mm	600 g
350 mm	800 g
360 mm	1000 g
380 mm	1500 g
400 mm	2000 g

Riveting hammer - handle with safety handle, oval

- for machinist's hammers
- mounting: oval, with plastic hull protection

Article No.	Article Description	QTY
4720 2 100 1	REPL.HANDLE W.PROT.HANDLE 100G	1
4720 2 200 1	REPL.HANDLE W.PROT.HANDLE 200G	1
4720 2 300 1	REPL.HANDLE W.PROT.HANDLE 300G	1
4720 2 400 1	REPL.HANDLE W.PROT.HANDLE 400G	1
4720 2 500 1	REPL.HANDLE W.PROT.HANDLE 500G	1
4720 2 600 1	REPL.HANDLE W.PROT.HANDLE 600G	1
4720 2 800 1	REPL.HANDLE W.PROT.HANDLE 800G	1
4720 2 1000 1	REPL.HANDLE W.PROT.HANDLE 1000G	1
4720 2 1500 1	REPL.HANDLE W.PROT.HANDLE 1500G	1
4720 2 2000 1	REPL.HANDLE W.PROT.HANDLE 2000G	1



Cabinetmaker's Hammer

- French form
- With double rammed ash wood handle
- DIN 5109
- Replacement handles: 340 g - Art. No. 4720 300 1460 g - Art. No. 4720 300 1625 g - Art. No. 4720 500 1755 g - Art. No. 4720 600 1

Article No.	Article Description	QTY
4721 22	CABINETMAKER'S HA.FRENCH 22MM	1
4721 25	CABINETMAKER'S HA.FRENCH 25MM	1 d
4721 28	CABINETMAKER'S HA.FRENCH 28MM	1 d
4721 30	CABINETMAKER'S HA.FRENCH 30MM	1



Technical Data

Length	Weight
300 mm	340 g
300 mm	460 g
320 mm	625 g
320 mm	755 g

Joiner's hammer - handle

Article No.	Article Description	QTY
4721 22 1	REPL.HANDLE JOINER'S HAMMER 340	1
4721 25 1	REPL.HANDLE JOINER'S HAMMER 460	1
4721 28 1	REPL.HANDLE JOINER'S HAMMER 625	1
4721 30 1	REPL.HANDLE JOINER'S HAMMER 755	1



Copper hammer

- high quality wooden handle made of ash

Technical Data		
Art. No.	Length	Weight
4732 1000	350 mm	1.115 g

Article No.	Article Description	QTY
4732 1000	COPPER HAMMER	1000G
		1



Club hammer **FÖRCH*******

- The extremely shock-resistant hickory handle dissipates almost all the vibrations arising during the impact
- The bonded full-length handle sleeve and the round saddle key guarantee an extremely high quality standard and safety

Technical Data

Art.-No.	Length	Weight
4722 5 1000	260 mm	1,000 g
4722 5 1250	260 mm	1,250 g
4722 5 1500	280 mm	1,500 g
4722 5 2000	300 mm	2,000 g



Article No.	Article Description	QTY
4722 5 1000	CLUB HAMMER 1000G 5*	1 s
4722 5 1250	CLUB HAMMER 1250G 5*	1 s
4722 5 1500	CLUB HAMMER 1500G 5*	1 s
4722 5 2000	CLUB HAMMER 2000G 5*	1 s

Club hammer handle **FÖRCH*******

- Hickory handle with ring wedge

Article No.	Article Description	QTY
4722 5 1000 1	REPL.HANDLE CL.HAMMER 1000G 5*	1
4722 5 1250 1	REPL.HANDLE CL.HAMMER 1250G 5*	1
4722 5 1500 1	REPL.HANDLE CL.HAMMER 1500G 5*	1
4722 5 2000 1	REPL.HANDLE CL.HAMMER 2000G 5*	1



Club hammer with sleeve

- with ash-handle and plastic sleeve

Technical Data

Art.-No.	Length	Weight
4722 2 1000	260 mm	1,000 g
4722 2 1250	260 mm	1,250 g
4722 2 1500	280 mm	1,500 g
4722 2 2000	300 mm	2,000 g



Article No.	Article Description	QTY
4722 2 1000	CLUB HAMMER WITH SLEEVE 1000G	1 s
4722 2 1250	CLUB HAMMER WITH SLEEVE 1250G	1 s
4722 2 1500	CLUB HAMMER WITH SLEEVE 1500G	1 s
4722 2 2000	CLUB HAMMER WITH SLEEVE 2000G	1 s

Club hammer handle with sleeve

- with plastic sleeve and tapered collar

Article No.	Article Description	QTY
4722 2 1250 1	REPL.HANDLE W.SLEEVE 1000/1250G	1
4722 2 1500 1	REPL.HANDLE W.SLEEVE 1500G	1
4722 2 2000 1	REPL.HANDLE W.SLEEVE 2000G	1



Sledge Hammer

- With ash wood handle
- DIN 1042

Technical Data

Art. No.	Length
4723 3000	600 mm
4723 4000	700 mm
4723 5000	800 mm
4723 6000	800 mm
4723 8000	900 mm



Article No.	Article Description	QTY
4723 3000	SLEDGE HAMMER ASH 3000G	1
4723 4000	SLEDGE HAMMER ASH 4000G	1
4723 5000	SLEDGE HAMMER ASH 5000G	1
4723 6000	SLEDGE HAMMER ASH 6000G	1
4723 8000	SLEDGE HAMMER ASH 8000G	1

Replacement Handle for Sledge Hammer

Article No.	Article Description	QTY
4723 3000 1	REPL.HANDLE SLEDGE HAM. 3000G	1
4723 4000 1	REPL.HANDLE SLEDGE HAM. 4000G	1
4723 6000 1	REPL.HANDLE SLEDGE HAM.5-6000G	1
4723 8000 1	REPL.HANDLE SLEDGE HAM. 8000G	1



Included in delivery:

- Replacement handle made of ash wood with a hollow wedge and a ring wedge

Hammer-Ring Wedge

- The security-handle wedge is a hammer handle-cross section adjusted oval sleeve wedge with absolutely solid fit due to internal and external compression
- No damaging of the longitudinal fibre of the handle

Article No.	Article Description	QTY
4729 100	HAMMER-RING WEDGE 100-200G	1 f
4729 200	HAMMER-RING WEDGE 200-300G	1 H
4729 400	HAMMER-RING WEDGE 400-600G	1 f
4729 800	HAMMER-RING WEDGE 800-1000G	1 f
4729 1250	HAMMER-RING WEDGE 1250-1500G	1 f
4729 2000	HAMMER-RING WEDGE 2000-3000G	1 g
4729 4000	HAMMER-RING WEDGE 4000-6000G	1 g



Carpenter's roofing hammer **FÖRCH*******

- forged from one piece
- hammer head according to DIN 7239
- TÜV tested
- with leather handle and magnet
- weight: 765 g

Article No.	Article Description	QTY
4724 7	LATTHAMMER M.LEDERG. 765G 5*	1



Claw Hammer Forged

- Head and shaft made of one piece
- Ergonomic two component anti-vibration handle
- Optimum punch due to perfect weight distribution
- With magnetic nail holder
- Weight: 765 g

Article No.	Article Description	QTY
4724 5	CLAW HAMMER FORGED 765G	1



Carpenter's roofing hammer with magnet

- with magnetic nail holder
- painted black hammer head
- black special handle
- weight: 600 g

Article No.	Article Description	QTY
4724 6	LATTHAMMER M.MAGNET 600G	1



Claw Hammer **ECO**

- With steel tubular shaft and plastic handle
- With magnetic nail holder
- Weight: 600 g

Article No.	Article Description	QTY
4724 4	CLAW HAMMER ECO W.MAGNET 600G	1



Mason's Hammer

- Berlin pattern
- With steel pipe handle and plastic handle

Article No.	Article Description	QTY
4724 2	MASON'S HA.BERLIN PATTERN 600G	1 d



Plasterer's Hatchet

- With steel pipe handle and plastic handle

Article No.	Article Description	QTY
4724 1	PLAS.HATCH.STE.PIP HANDLE600G	e 12



Dead Blow Hammer

- Careful fitting or loosening of work pieces / connections that require high power with cars, machinery, steel construction and trade
- To loosen jammed wheels when removing tyres on cars / trucks
- Better residue-free impact due to moving steel balls in the hammer-head
- Heavy duty design for excessive impact
- Elastic material (polyurethane / rubber mix) prevents further damage to the work piece

Technical Data

	Art. No. 4726 4800	Art. No. 4726 1000
Head (L x B x H):	170 x 105 x 105 mm	115 x 55 x 55 mm
Length:	900 mm	355 mm
Weight:	4800 g	1000 g
Material:	polyurethane (PU)	polyurethane (PU)

Article No.	Article Description	QTY
4726 4800	DEAD BLOW HAMMER 4800G	1
4726 1000	DEAD BLOW HAMMER 1000G	1 s



Soft-faced Hammer, Recoilless

- Hammering inserts made from special nylon (PA 6)
- Hickory handle
- Recoilless thanks to steel scrap filling

Technical Data

Art. No.	Length	Weight
4726 30	330 mm	460 g
4726 40	360 mm	715 g
4726 50	370 mm	990 g
4726 60	370 mm	1.705 g
4726 80	380 mm	3.210 g



Article No.	Article Description	QTY
4726 30	SOFT FACE HAM.RECOIL-FREE 30MM	1
4726 40	SOFT FACE HAM.RECOIL-FREE 40MM	1
4726 50	SOFT FACE HAM.RECOIL-FREE 50MM	1
4726 60	SOFT FACE HAM.RECOIL-FREE 60MM	1
4726 80	SOFT FACE HAM.RECOIL-FREE 80MM	1

(Ø mm)

Replacement Head for Recoilless Soft Face Hammer

Article No.	Article Description	QTY
4726 30 1	RE.HEAD S.F.HAM.REC.-FREE 30MM	1
4726 40 1	RE.HEAD S.F.HAM.REC.-FREE 40MM	1
4726 50 1	RE.HEAD S.F.HAM.REC.-FREE 50MM	1
4726 60 1	RE.HEAD S.F.HAM.REC.-FREE 60MM	1
4726 80 1	RE.HEAD S.F.HAM.REC.-FREE 80MM	1



Shaft for Recoilless Soft Face Hammer

Article No.	Article Description	QTY
4726 30 2	SHAFT F.SOFT FACE HAMMER 30MM	1
4726 40 2	SHAFT F.SOFT FACE HAMMER 40/50	1
4726 60 2	SHAFT F.SOFT FACE HAMMER 60/80	1



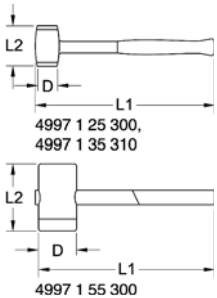
Hammer, 2-way insulation

- Insulation as per DIN EN 60900
- Art. no. 4997 1 25 300 and 4977 1 35 310:**
- Anti-recoil due to steel shot in the head cavity
 - Interchangeable polyamide heads, splinter-proof and resistant to wear and tear
 - Protects the body while working
- Art. no. 4997 1 55 300:**
- Made from plastic
 - No metal parts



Article No.	Article Description	QTY
4997 1 25 300	HAMMER 25X30MM	1
4997 1 25	HAMMER E-HEAD 25 MM	1
4997 1 35	HAMMER E-HEAD 35MM	1
4997 1 35 310	HAMMER 35X310MM	1
4997 1 55 300	PLASTIC HAMMER 55X300MM	1

Technical Data			
Art.-Nó.	D mm	L1 mm	L2 mm
4997 1 25 300	25,0	300,0	105,0
4997 1 25			
4997 1 35 300	35,0	310,0	115,0
4997 1 35			
4997 1 55 300	55,0	300,0	82,0



Simplex-Soft Face Hammer

- Handle and impact insert can be tightened easily and safely
- Impact inserts and handle are rapidly adjustable
- All inserts are red and black coloured
- Red: plastic, grease and oil resistant, strong impact
- Black: rubber, middle impact

Technical Data

Length

300 mm
330 mm
350 mm
405 mm



Article No.	Article Description	QTY
4727 30	SOFT FACE HAMMER SIMPLEX 30MM	1
4727 40	SOFT FACE HAMMER SIMPLEX 40MM	1
4727 50	SOFT FACE HAMMER SIMPLEX 50MM	1
4727 60	SOFT FACE HAMMER SIMPLEX 60MM	1

Replacement Head for Simplex-Soft Face Hammer

Article No.	Article Description	QTY
4727 30 1	REPLACE.HEAD SIMPLEX RED 30MM	1
4727 30 2	REPLACE.HEAD SIMPLEX BL. 30MM	1
4727 40 1	REPLACE.HEAD SIMPLEX RED 40MM	1
4727 40 2	REPLACE.HEAD SIMPLEX BL. 40MM	1
4727 50 1	REPLACE.HEAD SIMPLEX RED 50MM	1
4727 50 2	REPLACE.HEAD SIMPLEX BL. 50MM	1
4727 60 1	REPLACE.HEAD SIMPLEX RED 60MM	1
4727 60 2	REPLACE.HEAD SIMPLEX BL. 60MM	1



4727 30 1, 4727 40 1,
4727 50 1, 4727 60 1



4727 30 2, 4727 40 2,
4727 50 2, 4727 60 2

Simplex soft-faced mallet

- dent removal, furniture building, window and door building, carpentry
- soft TPE, blue
- no colour change
- soft

Technical Data

length

350 mm



Artikel-Nr.	Article Description	QTY
4727 50 4	SIMPLEX SOFT-FACED MALLET	1

Replacement head Simplex white / blue

Article No.	Artikel-Bezeichnung	QTY
4727 50 6	REPLACE.HEAD SIMPLEX WH 50MM	1
4727 50 7	REPLACE.HEAD SIMPLEX BU 50MM	1



4727 50 6



4727 50 7

Simplex soft-faced mallet

- car assembly and repair work, repair work and servicing, joining work pieces, housing assembly, maintenance and repair work of agricultural machinery
- nylon, white
- hard

Technical Data

length
405 mm
490 mm



Article No.	Article Description	QTY
4727 60 5	SIMPL.SOFT-FACE Mallet WH 60MM	1
4727 80	SOFT FACE HAMMER SIMPLEX 80MM	1

Replacement head Simplex white / black

Article No.	Article Description	QTY
4727 60 2	REPLACE.HEAD SIMPLEX BL. 60MM	1
4727 60 4	REPLACE.HEAD SIMPLEX WH 60MM	1
4727 80 1	REPLACE.HEAD SIMPLEX WH. 80MM	1
4727 80 2	REPLACE.HEAD SIMPLEX BL. 80MM	1



4727 60 4, 4727 80 1

4727 60 2, 4727 80 2

Replacement Handles for Simplex-Soft Face Hammer

Article No.	Article Description	QTY
4727 30 3	REP.HA.SOFT FACE HA.SIMPL.30MM	1
4727 40 3	REP.HA.SOFT FACE HA.SIMPL.40MM	1
4727 50 3	REP.HA.SOFT FACE HA.SIMPL.50MM	1
4727 60 3	REP.HA.SOFT FACE HA.SIMPL.60MM	1
4727 80 3	REP.HA.SOFT FACE HA.SIMPL.80MM	1



Plastic Faced Hammer

- Replaceable heads made of transparent-yellow, impact resistant cellulose acetate
- With ash wood handle

Technical Data

Length

280 mm
340 mm

Article No.	Article Description	QTY
4725 32	PLASTIC FACED HAMMER 32MM	1 s
4725 50	PLASTIC FACED HAMMER 50MM	1

(Ø mm)



Replacement Heads for Plastic Faced Hammer

Article No.	Article Description	QTY
4725 32 1	REPL.PLASTIC FACED HAMMER 32MM	1
4725 50 1	REPL.PLASTIC FACED HAMMER 50MM	1

(Ø mm)



Plastic Faced Hammer - Handle

Article No.	Article Description	QTY
4725 32 2	REPL.HANDLE F.PLAST.HAMM.32MM	1
4725 50 2	REPL.HANDLE F.PLAST.HAMM.50MM	1

(Ø mm)



Mallet

Strong

- Both sides flat, ash wood handle
- DIN 5128-90

Technical Data

Length

115 mm

Article No.	Article Description	QTY
4728 65	MALLET 65MM	1

(Ø mm)



Soft Hammer „Elastic Blue“

- Manufactured out of energy absorbent elastic-polymer
- High impact at minimal recoil forces
- Especially developed for surfaces with sensitive formings like sheet, glass, wood and plastic
- For adjustment and mounting of window, door and wood elements, tiling as well as steel and plastic pipes



Article No.	Article Description	QTY
4728 50 55	SOFT HAMMER "ELASTIC BLUE"	1

Technical Data

Length
310 mm

Chipping Hammer

- Forged steel



Article No.	Article Description	QTY
5459 400	CHIPPING HAMM. STEEL HANDLE 400G	1 d

Technical Data

Length:
300 mm

Wooden mallet

- hammer head: white beech with pressed metal coating
- with ash handle
- according to DIN 7462 B



Article No.	Article Description	QTY
4728 61	Wooden mallet	1

(Ø mm)

Technical Data

length
300 mm

Joiner's Mallet

- Hammer head: white beech
- Ash wood handle
- Head height 140 mm



Article No.	Article Description	QTY
4783 140	JOINER'S MALLET 7461 140MM	1

Technical Data

length
370 mm

Hatchet

- Ash wood handle



Article No.	Article Description	QTY
5422 600	HATCHET 600G L	1
5422 800	HATCHET 800G L	1
5422 1000	HATCHET 1000G L	1

Technical Data

Length

360 mm
380 mm
400 mm

Axe

- Ash wood handle



Article No.	Article Description	QTY
5422 1250	AXE 1250G L	1
5422 1400	AXE 1400G L	1
5422 1600	AXE 1600G L	1

Technical Data

Length

740 mm
850 mm
850 mm

Axe with Fibre Glass Handle

- Rubberized fibre-glass safety handle



Article No.	Article Description	QTY
5422 1250 1	AXE W.FIBRE-GLASS HANDLE 1250G	1

Technical Data

Length

900 mm

Wood splitting hammer

- Made from hardened and tempered chrome steel
- With turn tappet
- Hickory handle
- Length: 900 mm
- Weight: 3000 g



Article No.	Article Description	QTY
5422 3000	WOOD SPLITTING HAMMER 3000G	1

Technical Data

Length

900 mm

Carpenter's Chisel BLH

- DIN 5141
- Medium long, heavy, extra strong, with bevelled cuttings
- With heavy, round white beech handle and leather washer

Article No.	Article Description	QTY
4781 28	CARPENTER.CHISEL 5141 BLH 28MM	1 s
4781 30	CARPENTER.CHISEL 5141 BLH 30MM	1 s
4781 40	CARPENTER.CHISEL 5141 BLH 40MM	1 s
4781 50	CARPENTER.CHISEL 5141 BLH 50MM	1 s

(Width mm)



Chisel with Beech Handle

- According to DIN 5139 B
- Short, light, with bevelled cutting edges
- White beech handle with polished blade

Article No.	Article Description	QTY
4780 4	CHISEL 5139B 4MM	1 s
4780 6	CHISEL 5139B 6MM	1 s
4780 8	CHISEL 5139B 8MM	1 s
4780 10	CHISEL 5139B 10MM	1 s
4780 12	CHISEL 5139B 12MM	1 s
4780 16	CHISEL 5139B 16MM	1 s
4780 18	CHISEL 5139B 18MM	1 s
4780 20	CHISEL 5139B 20MM	1 s



Article No.	Article Description	QTY
4780 22	CHISEL 5139B 22MM	1 s
4780 24	CHISEL 5139B 24MM	1 s
4780 26	CHISEL 5139B 26MM	1 s
4780 28	CHISEL 5139B 28MM	1 s
4780 30	CHISEL 5139B 30MM	1 s
4780 32	CHISEL 5139B 32MM	1 s
4780 35	CHISEL 5139B 35MM	1 s
4780 40	CHISEL 5139B 40MM	1 s

(Width mm)

Chisel with Plastic Handle

- According to DIN 5139 B
- Short, light, with bevelled cutting edges
- 2-K plastic grip, skid-resistant and ergonomical

Article No.	Article Description	QTY
4784 4	CHISEL 2K-PLASTIC 5139B 4MM	1 s
4784 6	CHISEL 2K-PLASTIC 5139B 6MM	1 s
4784 8	CHISEL 2K-PLASTIC 5139B 8MM	1 s
4784 10	CHISEL 2K-PLASTIC 5139B 10MM	1 s
4784 12	CHISEL 2K-PLASTIC 5139B 12MM	1 s
4784 16	CHISEL 2K-PLASTIC 5139B 16MM	1 s
4784 18	CHISEL 2K-PLASTIC 5139B 18MM	1 s
4784 20	CHISEL 2K-PLASTIC 5139B 20MM	1 s



Article No.	Article Description	QTY
4784 22	CHISEL 2K-PLASTIC 5139B 22MM	1 s
4784 24	CHISEL 2K-PLASTIC 5139B 24MM	1 s
4784 26	CHISEL 2K-PLASTIC 5139B 26MM	1 s
4784 28	CHISEL 2K-PLASTIC 5139B 28MM	1 s
4784 30	CHISEL 2K-PLASTIC 5139B 30MM	1 s
4784 32	CHISEL 2K-PLASTIC 5139B 32MM	1 s
4784 35	CHISEL 2K-PLASTIC 5139B 35MM	1 s
4784 40	CHISEL 2K-PLASTIC 5139B 40MM	1 s

(Width mm)

Chisel Set

- According to DIN 5139 B
 - 5-part
- Art. No. 4789 1:**
- With beech handle with polished blade
- Art. No. 4789 2:**
- 2K- plastic grip

Article No.	Article Description	QTY
4789 1	CHISEL SET 5-PART 10-26MM	1

(Width mm)

Contents:

- 1x width: 10/12/16/20/26 mm



Rali Hand Plane 105

RALI-hand plane with turning blade system

- Due to the use of turning blades the sharpening of the iron is not necessary
- Adjustable mouth
- Quick blade change due to special clamping system
- Wear resistant metal-plane base
- Stepless adjustment of the chip removal
- Ideal for finishing touches e. g. removing edges (deburring)
- Plane width 48 mm



Article No.	Article Description	QTY
4773 105	HAND PLANE RALI 105	1

Rali Hand Plane 220

RALI-hand plane with turning blade system

- Due to the use of turning blades the sharpening of the iron is not necessary
- Adjustable mouth
- Quick blade change due to special clamping system
- Wear resistant metal-plane base
- Stepless adjustment of the chip removal
- Usable as a smoothing and scrub plane
- In the handle integrated magazine for replacement blades
- Plane width 48 mm



Article No.	Article Description	QTY
4773 220	HAND PLANE RALI 220	1

Rali Replacement Blade / Stop



Article No.	Article Description	QTY
4773 105 220	PCK(10)REPL.BL.HSS RALI105/220	1
4773 105 220 1	PCK(2)REPL.BL.HM RALI 105/220	1
4773 30 03 2	STOP ANGLE F.RALI REBATE PLANE	1

Carpenter's Plane

- sturdy design
- plane with metal body
- 2-component soft grip and can be adjusted in to 3 positions
- can be used with the allocated handle as a file
- exchangeable plane blade
- length: 350 mm



Article No.	Article Description	QTY
4773 350	CARPENTER'S PLANE 350MM	1

Replacement blade for carpenter's plane



Article No.	Article Description	QTY
4773 250 1	REPL.BLADE F.CARP.PL.STRAIGHT	1
4773 250 2	REPL.BLADE F.CARP.PL.SEMICIRC.	1

Flat Chisel

- Air-hardened chrome-vanadium steel with safety striking heads
- Copper plated
- Oil resistant, hexagonal PVC handles prevent tool from rolling



Article No.	Article Description	QTY
4700 1	FLAT CHISEL WITH H.PR.26X250MM	1

Technical Data

Blade width	Length	Shaft
26 mm	250 mm	23 x 13 mm

Splitting / Bodywork Chisel

- Air-hardened chrome-vanadium steel with safety striking heads
- Copper plated
- Oil resistant, hexagonal PVC handles prevent tool from rolling



Article No.	Article Description	QTY
4700 2	SPLIT.CHISE.WITH H.PR.26X240MM	1

Technical Data

Blade width	Length	Shaft
26 mm	240 mm	26 x 7 mm

Electrician's / Splitting Chisel

- Air-hardened chrome-vanadium steel with safety striking heads
- Copper plated
- Oil resistant, hexagonal PVC handles prevent tool from rolling



Article No.	Article Description	QTY
4700 3	ELEC.SPLI.CHIS.W.H.PR.27X250MM	1

Technical Data

Blade width	Length	Shaft
27 mm	250 mm	23 x 13 mm

Stone Chisel

- Air-hardened chrome-vanadium steel with safety striking heads
- Copper plated
- Oil resistant, hexagonal PVC handles prevent tool from rolling



Article No.	Article Description	QTY
4700 4	STONE CHISE.WITH H.PR.30X300MM	1

Technical Data

Blade width	Length	Shaft
30 mm	300 mm	23 x 13 mm

Grooving Chisel

- Air-hardened chrome-vanadium steel with safety striking heads
- Copper plated
- Oil resistant, hexagonal PVC handles prevent tool from rolling



Article No.	Article Description	QTY
4700 5	GROOVING CHISE.W.H.PR.50X250MM	1

Technical Data

Blade width	Length	Shaft
50 mm	250 mm	26 x 13 mm

Flat Chisel

- DIN 6453
- Air-hardened chrome-vanadium steel with safety striking heads
- Copper-plated

Article No.	Article Description	QTY
4701 12	FLAT CHISEL DIN 6453 12X125MM	1 z
4701 13	FLAT CHISEL DIN 6453 13X150MM	1 z
4701 19	FLAT CHISEL DIN 6453 19X150MM	1 ü
4701 22	FLAT CHISEL DIN 6453 22X175MM	1 ü
4701 25	FLAT CHISEL DIN 6453 25X200MM	1 ü
4701 26	FLAT CHISEL DIN 6453 26X250MM	1 ü



Technical Data

Shaft	Blade width	Length
Octagon. 10 mm	12 mm	125 mm
Octagon. 10 mm	13 mm	150 mm
17 x 11 mm	19 mm	150 mm
20 x 12 mm	22 mm	175 mm
23 x 13 mm	25 mm	200 mm
23 x 13 mm	26 mm	250 mm

Wedge Chisel DIN 6451

- DIN 6451
- Air-hardened chrome-vanadium steel with safety striking heads
- Copper-plated

Article No.	Article Description	QTY
4703 4	WEDGE CHISEL DIN 6451 4X125MM	1 ü
4703 6	WEDGE CHISEL DIN 6451 6X150MM	1 ü
4703 7	WEDGE CHISEL DIN 6451 7X175MM	1 ü
4703 8	WEDGE CHISEL DIN 6451 8X200MM	1 ü



Technical Data

Shaft	Blade width	Length
Octagon. 10 mm	4 mm	125 mm
17 x 11 mm	6 mm	150 mm
20 x 12 mm	7 mm	175 mm
23 x 13 mm	8 mm	200 mm

Stone Chisel DIN 7254A

- According to DIN 7254 A
- Air-hardened chrome-vanadium steel with safety striking heads
- Copper-plated

Article No.	Article Description	QTY
4710 250	STONE CHISEL DIN7254A 30X250MM	1 ü
4710 300	STONE CHISEL DIN7254A 30X300MM	1 ü
4710 350	STONE CHISEL DIN7254A 30X350MM	1 ü
4710 400	STONE CHISEL DIN7254A 30X400MM	1 ü
4710 500	STONE CHISEL DIN7254A 30X500MM	1 ü



Technical Data

Shaft	Blade width	Length
23 x 13 mm	30 mm	250 mm
23 x 13 mm	30 mm	300 mm
23 x 13 mm	30 mm	350 mm
23 x 13 mm	30 mm	400 mm
23 x 13 mm	30 mm	500 mm

Electrician's Chisel

- Air-hardened chrome-vanadium steel with safety striking heads
- Copper-plated

Article No.	Article Description	QTY
4711 10	ELECTRICIAN'S CHISEL 10X200MM	1 z
4711 12	ELECTRICIAN'S CHISEL 12X250MM	1 z



Technical Data

Shaft	Blade width	Length
8 mm	10 mm	200 mm
10 mm	12 mm	250 mm

Centre Punch

- Cutting form: square, tapered
- Air-hardened chrome-vanadium steel with safety striking heads
- Copper-plated

Article No.	Article Description	QTY
4712 250	CENTRE PUNCH DIN 7256 250MM	1 ü
4712 300	CENTRE PUNCH DIN 7256 300MM	1 ü
4712 400	CENTRE PUNCH DIN 7256 400MM	1 ü



Technical Data

Shaft	Length
18 mm	250 mm
18 mm	300 mm
18 mm	400 mm

Wrecking Bar with Hexagon Shaft

Article No.	Article Description	QTY
4714 400	WRECKING BAR 18MM-HEXA 400MM	1
4714 600	WRECKING BAR 18MM-HEXA 600MM	1
4714 800	WRECKING BAR 18MM-HEXA 800MM	1

(L in mm)



Tiler's nail puller, slate puller

- for slate repair - replacing slates / slates
- hand-forged
- made from one piece
- with nail claw on the handle
- weight: 725 g
- Length: 470 mm

Article No.	Article Description	QTY
4714 470	TILER'S NAIL PULLER	1



Slate lifter

- to easily and efficiently remove old battens
- painted steel design
- with PVC handle
- weight: 1700 g
- Length: 820 mm

Article No.	Article Description	QTY
4714 820	SLATE LIFTER 820MM	1



Crowbar, curved claw and tip, 1500 mm

- Curved claw and tip
- Diameter: 30 mm
- Length: 1500 mm

Article No.	Article Description	QTY
4714 1500	CROWBAR 1500MM	1



Beam gripper with ratchet

- For the clamping, pulling and pressing together of wood
- Die-forged hooks
- No risk from splinters when being driven in
- Quality crafted thread spindle
- Ergonomic rubber hand grip
- Ratchet length 320 mm for optimum power transmission
- May be handled from either side due to right/left operating switch
- Range up to max. 600 mm
- **Beam gripper = power saving**



Article No.	Article Description	QTY
4686 320 600	BEAM PULLEY W. RATCHET 320-600	e 2

Pin Punch, 150 mm

- DIN 6450 C

Art. No. 4708 30:

- 6-piece in stand

Art. No. 4708 31:

- 6-piece in plastic cassette

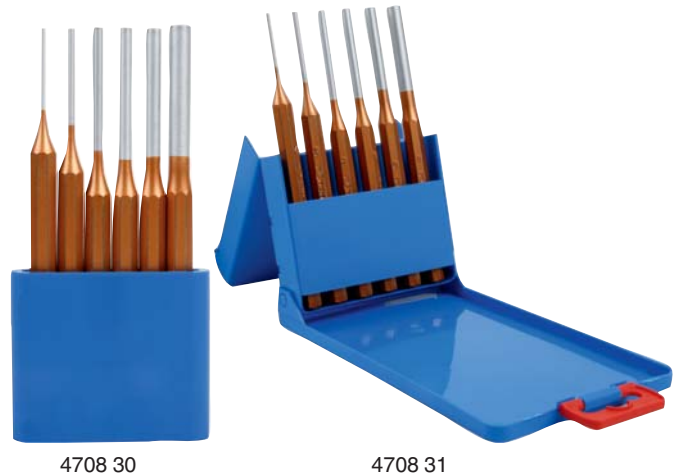
Article No.	Article Description	QTY
4708 2	PIN PUNCH DIN 6450 C 2X150MM	1 z
4708 3	PIN PUNCH DIN 6450 C 3X150MM	1 z
4708 4	PIN PUNCH DIN 6450 C 4X150MM	1 z
4708 5	PIN PUNCH DIN 6450 C 5X150MM	1 z
4708 6	PIN PUNCH DIN 6450 C 6X150MM	1 z
4708 8	PIN PUNCH DIN 6450 C 8X150MM	1 z
4708 10	PIN PUNCH DIN 6450 C 10X150MM	1 z
4708 30	PIN PUNCH RACK 6-PART 30	1
4708 31	PIN PUNCH BOX 6PART 31	1

Art. No. 4708 30:

- 1x AGR 4708 pin punch, 150 mm, Ø 2/3/4/5/6/8 mm

Art. No. 4708 31:

- 1x AGR 4708 pin punch, 150 mm, Ø 2/3/4/5/6/8 mm



4708 30

4708 31

Pin Punch, 175 mm

- Long version for safety locking pins of disc brake linings
- Shaft strength: 10 mm

Art. No. 4708 36 175:

- Ø 6 mm with pin
- Ø 3 x L 7 mm for Opel

Article No.	Article Description	QTY
4708 4 175	PIN PUNCH FOR BRAKE 4X175MM	1 z
4708 36 175	PIN PUNCH WITH PIN 3/6X175	1 z

(Ø mm/L mm)



Drift Punch, 120 mm

- DIN 6458 B

Art. No. 4707 20:

- 6-piece in stand

Art. No. 4707 21:

- 6-piece in plastic cassette

Article No.	Article Description	QTY
4707 2	DRIFT PUNCH DIN 6458B 2X120MM	1 z
4707 3	DRIFT PUNCH DIN 6458B 3X120MM	1 z
4707 4	DRIFT PUNCH DIN 6458B 4X120MM	1 z
4707 5	DRIFT PUNCH DIN 6458B 5X120MM	1 z
4707 6	DRIFT PUNCH DIN 6458B 6X120MM	1 z
4707 8	DRIFT PUNCH DIN 6458B 8X120MM	1 z
4707 10	DRIFT PUNCH DIN 6458B 10X120MM	1
4707 20	DRIFT PUNCH RACK (6P) 20	1
4707 21	DRIFT PUNCH BOX (6P) 21	1

Art.-No. 4707 20:

- each 1x AGR 4707 drift punch, 120 mm
Ø 2/3/4/5/6 mm
- 1x centre punch, **Art.-No.: 4704 10** (120 x Ø10 mm)

Art.-No. 4707 21:

- 1x AGR 4707 drift punch, 120 mm
Ø 2/3/4/5/6 mm
- 1x centre punch, **Art.-No.: 4704 10** (120 x Ø10 mm)



4707 20

4707 21

Chisel / Drift Punch Set

Article No.	Article Description	QTY
4709 10	CHIS.DRIFT PUNCH HOLD.6-PA10MM	1

Contents each 1x:

- Art.-No. 4701 12: Flat chisel 12 x 125 mm
- Art.-No. 4701 13: Flat chisel 13 x 150 mm
- Art.-No. 4703 4: Wedge chisel 4 x 125 mm
- Art.-No. 4707 2: Drift punch 2 x 120 mm
- Art.-No. 4707 2: Drift punch 4 x 120 mm
- Art.-No. 4704 10: Centre punch DIN 7250



Centre Punch DIN 7250

- Length: 120 mm

Article No.	Article Description	QTY
4704 10	CENTRE PUNCH DIN 7250 120X10MM	1 z
4704 12	CENTRE PUNCH DIN 7250 120X12MM	1 z

(Length x Ø in mm)



Automatic centre punch

- Infinitely variable impact force 60 - 130 N
- One-handed operation
- Automatic triggering via spring mechanism
- With hand protection
- Nickel-plated
- Length: 130 mm
- Tip diameter: 4 mm

Article No.	Article Description	QTY
4705 47	AUTOMATIC CENTRE PUNCH	1



Pin Punch

- Octagonal
- With two-component handle
- Length of hand protection: 75 mm
- Total length: 150 mm

Art. No. 4708V 091:

- 5-piece in VAROsoft tool deposit Art. No. 9026 818

Article No.	Article Description	QTY
4708 02 1	PIN PUNCH W.HAND PROTEC.2MM 5*	1
4708 03 1	PIN PUNCH W.HAND PROTEC.3MM 5*	1
4708 04 1	PIN PUNCH W.HAND PROTEC.4MM 5*	1
4708 05 1	PIN PUNCH W.HAND PROTEC.5MM 5*	1
4708 06 1	PIN PUNCH W.HAND PROTEC.6MM 5*	1
4708 08 1	PIN PUNCH W.HAND PROTEC.8MM 5*	1
4708 10 1	PIN PUNCH W.HAND PROTEC.10MM5*	1
4708V 091	VS-PIN PUNCH SET 5* 5-PIECE	1

Art. No. 4708V 091:

- 1x Pin punch FÖRCH 5* Ø 3/4/5/6/8 mm



Pin Punch

- Octagonal
- Plastic hand protection
- Length of hand protection: 75 mm
- Total length: 150 mm

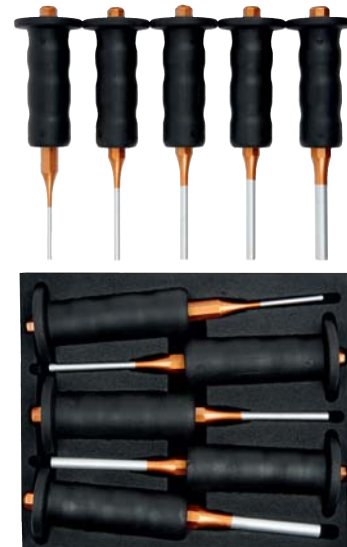
Art. No. 4708 090:

- 5-piece in VAROsoft tool deposit Art.-No. 9026 85

Article No.	Article Description	QTY
4708 002	PIN PUNCH WITH HAND PROTECT. 2	1
4708 003	PIN PUNCH WITH HAND PROTECT. 3	1
4708 004	PIN PUNCH WITH HAND PROTECT. 4	1
4708 005	PIN PUNCH WITH HAND PROTECT. 5	1
4708 006	PIN PUNCH WITH HAND PROTECT. 6	1
4708 008	PIN PUNCH WITH HAND PROTECT. 8	1
4708 010	PIN PUNCH WITH HAND PROTECT.10	1
4708 090	PIN PUNCH SET 5-PIECE	1
4708 15	HAND PROT.LOOSE / PIN PUNCH	1
4708V 090	VS-PIN PUNCH SET 5-PIECE	1

Art. No. 4708 090 and 4709V 090:

- 1x Pin punch Ø 3/4/5/6/8 mm



Pin Punch XXL

- Octagonal
- With two-component hand protection
- Stable design, ideally suitable for construction machines, trucks etc.

Technical Data

Art. No.	Length mm	Octagonal mm	Ø mm
4708 08 2	225	14	8
4708 10 2	240	14	10
4708 12 2	260	14	12
4708 14 2	275	18	14
4708 16 2	290	18	16



Article No.	Article Description	QTY
4708 08 2	PIN PUNCH W.HAND PROT.8MM XXL	1 ü
4708 10 2	PIN PUNCH W.HAND PROT.10MM XXL	1 ü
4708 12 2	PIN PUNCH W.HAND PROT.12MM XXL	1 ü
4708 14 2	PIN PUNCH W.HAND PROT.14MM XXL	1 ü
4708 16 2	PIN PUNCH W.HAND PROT.16MM XXL	1 ü
4708 092	PIN PUNCH SET XXL 5-PIECE	1

Art. No. 4708 092:

- 1x pin punch Ø 8/10/12/14/16 mm

Drift Punch FÖRCH*****

- Octagonal
- With two-component hand protection that guarantees:
 - Considerable reduction of risk of injury
 - Secure grip
 - Softening effect (reduction of hand strain during impacts)
- Length of hand protection: 75 mm
- Total length: 150 mm
- Air-hardened chrome-vanadium steel; DIN 6450
- In VAROsoft tool deposit Art. No. 9026 630



Article No.	Article Description	QTY
4707 02 1	DRIFT PUNCH W.HAND PROT.2MM 5*	1
4707 03 1	DRIFT PUNCH W.HAND PROT.3MM 5*	1
4707 04 1	DRIFT PUNCH W.HAND PROT.4MM 5*	1
4707 05 1	DRIFT PUNCH W.HAND PROT.5MM 5*	1
4707 06 1	DRIFT PUNCH W.HAND PROT.6MM 5*	1
4707 08 1	DRIFT PUNCH W.HAND PROT.8MM 5*	1
4707 10 1	DRIFT PUNCH W.HAND PROT.10MM5*	1
4707V 070	VS-DRIFT PUNCH SET 5* 7-PIECE	1

Art. No. 4707 V070:

- 1x Pin punch Ø 2/3/4/5/6/8/10 mm



Pocket Rule

- Robust wooden pocket rule with double measurement scale
- Measurement range 2 m

Article No.	Article Description	QTY
4715 2	POCKET RULE 2M	1 z



4715 2



4715 4

Pocket Rule with Inch-Scale

- Robust wooden pocket rule with meter and inch scale
- Measuring range: 2 m / 78"

Article No.	Article Description	QTY
4715 3	POCKET RULE 2M WITH INCH-SCALE	1 z



Pocket Tape Professional

- Soft-grip-housing made of plastic for anti-skidding handle
- Locking device and belt clip
- White, nylon-coated and self-reflected steel tape
- EG-Accuracy class II
- Width: 16 mm

Article No.	Article Description	QTY
4717 2 4	POCKET TAPE PROFESSIONAL 2M	1
4717 3 6	POCKET TAPE PROFESSIONAL 3 M	1
4717 5 6	POCKET TAPE PROFESSIONAL 5 M	1
4717 8 6	POCKET TAPE PROFESSIONAL 8M	1



Stabilock S-Spikes

- Added with Saphir-Spikes-hook which does not slip off when replacing the tape
- For the protection the 5 m tape has a rubber buffer at the running-in and is reinforced at the beginning of the tape

Article No.	Article Description	QTY
4717 3 2	POCKET TAPE S-SPIKES 3M	1
4717 5 1	POCKET TAPE S-SPIKES 5M	1



Stabilock SW-Spikes

- Added with window for direct reading of inside measurements

Article No.	Article Description	QTY
4717 3 3	POCKET TAPE SW-SPIKES 3M	1



Pocket Tape Maxi

- Tape width: 30 mm
- Extendable up to 3 m, no snapping off, easy to read
- Exclusive DynaGrip-housing provides anti-skidding handle and impact protection
- 3-fold riveted and corrosion resistant terminal hook allows accurate inside and outside measurements due to its absolutely neutral position
- The terminal hook is ideally protected against the especially reinforced pulling-in steam
- Mylar-protective film tape with a 10-fold longer physical life

Article No.	Article Description	QTY
4717 5 5	POCKET TAPE MAXI 5M	1
4717 8 5	POCKET TAPE MAXI 8M	1



Fibreglass tape measure

- Tape measure in plastic housing
- Non-slip shaped hand rest with soft-touch surface
- Large crank handle with parked position



Article No.	Article Description	QTY
4717 10 9	FIBREGLASS TAPE MEASURE 10M	1
4717 20 9	FIBREGLASS TAPE MEASURE 20M	1
4717 30 9	FIBREGLASS TAPE MEASURE 30M	1



Steel tape measure, white paint finish

- Ultrasonically welded frame made of impact-resistant plastic
- Tangential tape outlet prevents tape from deforming
- Handle head protects fingertips from injury
- Ball-bearing mounted crank handle and ring
- Crank handle with park function



Article No.	Article Description	QTY
4717 30 10	STEEL TAPE MEASURE PAINTED 30M	1
4717 50 10	STEEL TAPE MEASURE PAINTED 50M	1



Steel tape measure, polyamide coated

- Polyamide-coated steel, yellow paint finish
- Tangential tape outlet prevents tape from deforming
- Handle head protects fingertips from injury
- Ball-bearing mounted crank handle and ring
- Crank handle with park function



Article No.	Article Description	QTY
4717 30 11	STEEL TAPE MEASURE POLYAM.30M	1
4717 50 11	STEEL TAPE MEASURE POLYAM.50M	1



Light alloy spirit level

- Strong rectangular profile made of aluminium
- Corrosion, impact and distortion-resistant with low weight
- Electrostatically powder-coated surface
- Scratch-proof, smooth surface
- Barrel-shaped bubble tubes made of block acrylic glass
- Unbreakable and leak-proof, 5 years warranty, no reflections, precise reading at a viewing angle of 300°
- Special fluorescent bubble tube liquid resistant to UV radiation and therefore no bleaching or hazing of the liquid
- Sustained optimum reading quality
- Sustained measurement accuracy
- Shock-proof bubble tube fixing
- Measurement accuracy with normal measurement: 0.057° corresponds to 1.0 mm/m



Article No.	Article Description	QTY
4717 40 1	LIGHT-METAL SPIRIT LEVEL 40CM	1
4717 60 1	LIGHT-METAL SPIRIT LEVEL 60CM	1
4717 80 1	LIGHT-METAL SPIRIT LEVEL 80CM	1
4717 100 1	LIGHT-METAL SPIRIT LEVEL 100CM	1
4717 120 1	LIGHT-METAL SPIRIT LEVEL 120CM	1
4717 150 1	LIGHT-METAL SPIRIT LEVEL 150CM	1
4717 180 1	LIGHT-METAL SPIRIT LEVEL 180CM	1
4717 200 1	LIGHT-METAL SPIRIT LEVEL 200CM	1

Light alloy spirit level set



4717 150 1



4717 120 1



4717 100 1



4717 80 1



4717 60 1

Article No.	Article Description	QTY
4717 60 150	LIGHT ALLOY SPIRIT LEV.5-PART	1

Contents:

- 1x Art.-No. 4717 60 1: 60 cm
- 1x Art.-No. 4717 80 1: 80 cm
- 1x Art.-No. 4717 100 1: 100 cm
- 1x Art.-No. 4717 120 1: 120 cm
- 1x Art.-No. 4717 150 1: 150 cm

Light-Metal Magnet Spirit Level

- Same design as the light-metal spirit level but with strong magnet
- Accuracy at standard measurement: 0.057° corresponds to 1.0 mm/m

Article No.	Article Description	QTY
4717 40 2	LM-MAGNET SPIRIT LEVEL 40CM	1
4717 60 2	LM-MAGNET-SPIRIT LEVEL 60CM	1
4717 80 2	LM-MAGNET-SPIRIT LEVEL 80CM	1
4717 100 2	LM-MAGNET-SPIRIT LEVEL 100CM	1
4717 120 2	LM-MAGNET-SPIRIT LEVEL 120CM	1
4717 150 2	LM-MAGNET-SPIRIT LEVEL 150CM	1
4717 180 2	LM-MAGNET-SPIRIT LEVEL 180CM	1
4717 200 2	LM-MAGNET-SPIRIT LEVEL 200CM	1



Light Metal-Precision-Spirit Level

- Precision-version such as light metal-spirit level but with milled measuring surface (up to 120 cm)
 - Accuracy at standard measurements: 0.029° corresponds to 0.5 mm/m
 - Suitable for overarm and turnover measurements: 0.043° corresponds to 0.75 mm/m
 - From a length of 150 cm with 2 vertical-vials for ideal read off and high degree of accuracy
- The spirit level for the cabinet maker, interior fittings and where low tolerance is necessary

Article No.	Article Description	QTY
4717 40	LM-PRECISION-SPIRIT LEVEL 40CM	1
4717 60	LM-PRECISION-SPIRIT LEVEL 60CM	1
4717 80	LM-PRECISION-SPIRIT LEVEL 80CM	1
4717 100	LM-PRECISION-SPIRIT LEVEL 100CM	1
4717 120	LM-PRECISION-SPIRIT LEVEL 120CM	1
4717 150	LM-PRECISION-SPIRIT LEVEL 150CM	1
4717 180	LM-PRECISION-SPIRIT LEVEL 180CM	1
4717 200	LM-PRECISION-SPIRIT LEVEL 200CM	1



Electrician's Spirit Level

- Strong rectangle profile with flat side surfaces made of corrosion resistant light-metal alloy
- Powder-coated surfaces
- Unbreakable vials made of block-acrylic glass
- Accuracy of measurement: 0.029° = 0.5 mm/m in standard position

Art.-No. 4717 43 50 and 4717 120 50:

- With integrated plastic sleeves for marking the drilling holes of multiple sockets
- Patented blocks help to keep the spirit level on the wall

Article No.	Article Description	QTY
4717 22 50	ELECTR.SPIRIT LEVEL 22CM	1
4717 43 50	ELECTR.SPIRIT LEVEL 43CM	1



Digital Spirit Level with Line Laser

- With foldable wall-line-laser
- Vertical and horizontal angle display
- Data memory for up to 9 values
- Accoustic sign at 0°, 45°, 90°, 135° and 180°
- Illuminated display
- Vertical and horizontal vial
- Integrated magnetic clamp
- Milled measuring surfaces



Technical Data

Accuracy

Electronical measurement: + 0.1° at 0° and 90°,
+ 0.2° at 1° and 89°

Vial accuracy: + 0.5 mm/m

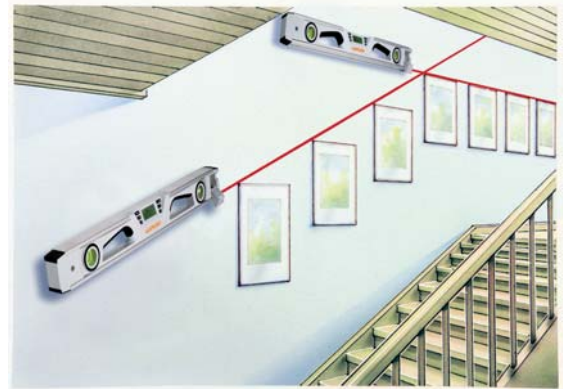
Laser: Class 2M

Laser wave length: 635 nm

Power supply: Battery 2x 1.5 V Type AAA

Weight with battery: 0.9 kg

Size (W x H x D): 640 x 72 x 33 mm



Article No.	Article Description	QTY
4717 60 4	SPIR.LEVEL DIGITAL W.LASER60CM	1

Straight Edge with Handles and 2 Vials



- Sag resistance and stable aluminium hollow profile with plastic end caps
- 1 horizontal vial, 1 vertical vial and 2 grip openings
- Cross-sectional profile: 18 x 100 mm
- Length: 2.00 m

Article No.	Article Description	QTY
4717 200 3	STRAI.EDGE W.HANDLE/VIAL 200CM	1

Straight Edge with 2 Vials



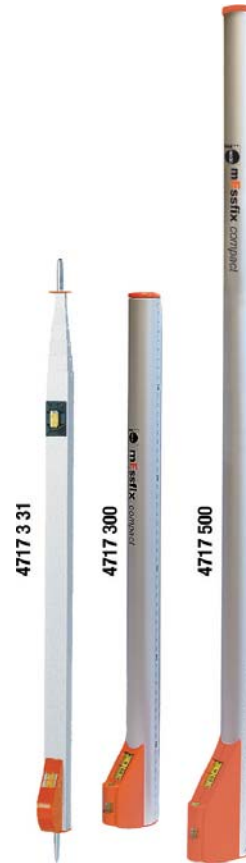
- Sag resistance and stable aluminium hollow profile with plastic end caps
- 1 horizontal vial, 1 vertical vial
- Cross-sectional profile: 18 x 100 mm
- Length: 1.80 m

Article No.	Article Description	QTY
4717 180 3	STRAIGHT EDGE WITH VIAL 180CM	1

Messfix Telescopic Gauge

- Telescopic gauge with an analogue display
- Quick, easy and exact measuring
- A combi-vial which is mounted on the outside pipe relieves measuring in vertical and horizontal position
- Anodised aluminium pipes which slide between abrasion-proof and dust repellent plastic guides
- A big, round plate at the smallest telescopic pipe relieves the extraction of the telescope and also acts as deflexion during the measurement
- Millimetre division
- Short insertion length
- Round telescopic tube for good handling
- Including transport sleeve
- Roller shutter Messfix with measuring mandrel for each measurement of the roller shutter width and length
- **Roller shutter Messfix without transport sleeve**
- Roller shutter Messfix with rectangular telescopic tubes

Article No.	Article Description	QTY
4717 300	MESSFIX COMPACT 0,6-3M	1
4717 3 3 1	SHUTTER-MESSFIX 3M (0,8 -3,1M)	1
4717 500	MESSFIX COMPACT 0,91-5M	1
4717 3 31 10	COVER FOR SHUTTER-MESSFIX 3M	1



Messfix-S Telescopic Gauge

- Measurement range up to 8 m
- Display housing with two integrated vials, easily readable at eye-level
- Circular vial for vertical adjustment
- Longitudinal vial for horizontal adjustment
- mm - pitch on dimensionally stable GRP-fabric tape which prevents crinkling
- Tape-coiling spring made of best spring steel
- Telescopic elements made of robust aluminium-square-profiles for hard application at construction sites
- Set screw for fixation of the telescoping elements in any position



Article No.	Article Description	QTY
4717 8	MESSFIX 8M (1,53 - 8,0M)	1
4717 8 10	COVER FOR MESSFIX-S 8M	1



Rolling digital distance meter

- Electronic rolling distance measuring device for use in straight lines and on curves
- This electronic measuring wheel delivers centimetre-accurate readings for distance measurements of up to 9,999.99 m
- The illuminated LC-display can be read directly from the handle
- Addition through forward wheel rotations, subtraction with reverse wheel rotations
- Hold function for the registering of measured values
- The movable pointer indicates the exact start and end position
- Easy transportation with folding structure and carry bag
- Measurement storage with 5 entries
- Measuring wheel with 1-meter circumference

Technical Data

Precision:	± 0,1%
Range:	0 – 9.999,99 m
Weight:	2,1 kg
Dimensions(W x H x D):	318 x 1000 x 140 mm 318 x 540 x 210 mm (folded)
Battery:	9V Block



Article No.	Article Description	QTY
4716 12	ROLL.DISTANCE METER DIGITAL	1

Scope of delivery:

- Rolling digital distance meter, transportation bag, batteries

Laser Distance Meter X310, 80 m

- Easy to operate measuring device with many functions
- Quick and precise measuring of distances
- Easy determination of inclinations up to + 45° due to integrated inclination sensor
- One button for values such as volume, wall and roof surface, room angles can be measured with only three measurements
- End piece made of metal makes precise measurement from every position possible
- Measurement of big distances approx. 80 m also without target board possible, automatic keyboard and display lighting, mounted sensor automatically switches on the lighting for measuring key and display

Technical Data

Range:	100m
Measuring accuracy:	+/- 1.0mm
Measurements:	Stake-out function, pythagoras, surface and volume calculations, minimum/maximum function,
Others:	automatic timer, inclination measurements Volume and room angle calculations, memory for 10 measurements, IP 54, addition, subtraction
Sizes/weight:	125 x 45 x 24mm/100 g
Batteries:	2x Micro 1.5AAA

Article No.	Article Description	QTY
4716 80	LASER DISTANCE METER X310 120M	1

Included in delivery:

Laser D3, belt bag, battery, hand strap, target board, operation instruction



Laser distance meter F-EM 30 m

- Small, handy measuring device, specially for indoor use
- Ergonomic design, soft-grip for secure hold
- Clear button layout – clear direct buttons for ease of use
- For quick measurement of door and window dimensions

Technical Data

Range:	30 m
Measuring accuracy:	± 2 mm
Measurements:	Continuous measurement, surface area and volume measurement
Display:	Three-row backlit
Dimensions/weight:	123 x 50 x 26 mm / 100 g
Battery:	2x Micro 1.5 V AAA

Article No.	Article Description	QTY
4716 30	LASER DISTANCE METER F-EM30	1

Delivery includes:

- Laser, belt pouch, batteries, instruction manual



Distance meter compact 50 m

- Pinpoint measurement with laser light to determine length with high precision
- The area and volume function allows the measurement of room sizes, e.g. to calculate quantities of material
- Bluetooth interface to transfer measurement data
- 360° tilt sensor to determine horizontal and vertical distance
- Measurement data storage with 10 entry slots
- Switchable between two measuring planes: front and back
- Min/max function to determine diagonal, horizontal and vertical distances
- Colour LC display, illuminated, 3-line
- Robust, ergonomic housing with protective rubber coating

Technical Data

Measuring accuracy:	±2 mm/10 m
Measuring range:	0.10–50 m
Laser class:	2 <1 mW
Laser wavelength:	650 nm
Units (switchable):	m / ft / inch
Automatic shutdown:	Laser 30 sec / Device 3 min
Functions:	Lengths, areas, volumes, Pythagoras
Power supply:	2× AAA batteries
Weight:	0.1 kg



Article No.	Article Description	QTY
4716 50 1	DISTANCE METER COMPACT 50M	1

Delivery includes:

- Transport bag, batteries

Distance meter compact 100 m

- Pinpoint measurement with laser light to determine length with high precision
- Simple height measurement with double Pythagoras measuring function to automatically determine height
- The area and volume function allows the measurement of room sizes, e.g. to calculate quantities of material
- Simple measurement of room perimeter with addition and subtraction function
- The wall area function automatically adds up areas with an identical height, based on a single height measurement
- With a wide range of calculation and storage options
- Switchable between four measuring planes: front, tripod, back and pin
- Min/max function to determine diagonal, horizontal and vertical distances
- Reference mode for easy transfer of lengths
- Illuminated 4-line LC display
- Insertable pin for measuring from corners

Technical Data

Measuring accuracy:	±1.5 mm/10 m
Measuring range:	0.05–100 m
Laser class:	2 <1 mW
Laser wavelength:	635 nm
Units (switchable):	m / ft / inch
Automatic shutdown:	Laser 28 sec / Device 2.45 min
Functions:	Lengths, areas, volumes Pythagoras, addition and subtraction
Power supply:	2× AAA batteries
Tripod connection:	1/4"
Weight:	0.211 kg



Article No.	Article Description	QTY
4716 100	DISTANCE METER COMPACT 100M	1

Delivery includes:

- Transport bag, measuring tip, batteries

GLM 30 Professional

- One button for everything - intuitive, easy measuring
- Compact - fits in your pocket
- Uses AutoSum function to add up measured values
- Tough - protected against on-site dust, splashing water and knocks
- ISO certified laser distance meter
- Clearly legible measured values thanks to illuminated 3-line display

Technical Data

Laser diode:	635 nm, < 1 mW
Measuring range:	0.15 – 30 m
Laser class:	2
Measuring accuracy, typical:	± 2 mm
Power supply:	2 × 1.5 V_LR03 (AAA)
Automatic shutdown:	5 min.
Dimensions /weight:	105 × 41 × 24 mm / 0.1 kg
Dust and splashing water protection	IP 54

Article No.	Article Description	QTY
5334 4 30	LASER DISTANCE METER GLM 30	1



Distance Meter GLM 50 C

- The smart solution for the transfer and documentation of your measurement results
- Fast, efficient data transfer via Bluetooth and Micro-USB
- Versatile documentation App for smartphones and tablets with direct transfer of measurements from the GLM 50 C Professional to a photo
- Further data processing options in the PC software and App
- Automatic storage of the last 50 measured values and one constant
- Additional functionality through integrated 360 degree inclinometer
- Precise and easy to operate, thanks to automatic scrolling, illuminated display

Technical Data

Measuring range:	0.5–50 m
Measuring accuracy:	1.5 mm / 10 m
Inclination measurement:	360°
Measurement accuracy (inclination):	± 0.2°
Measurement units:	m / cm / ft / inch
Laser diode:	635 nm, <1 mW
Protection type:	IP 54
Tripod thread:	1/4"
Weight:	0.502 kg

Article No.	Article Description	QTY
5334 4 50 1	DISTANCE METER GLM 50C	1

Delivery includes:

- Protective bag, micro-USB cable, charger plug USB



GLM 100 C Professional

- Fast, efficient data transfer via Bluetooth and Micro-USB
- Straightforward interchange and smart documentation of measured values thanks to GLM measure & document App
- Built-in 360 ° inclination sensor
- Automatic storage of last 50 measured values and one constant
- Precise and easy to operate thanks to automatic scrolling, illuminated display
- Built-in inclination measurement
- Indirect length measurement
- Indirect height measurement
- Wall surface function
- Timer function
- Min/max measurement

Technical Data

Laser diode:	635 nm, < 1 mW
Measuring range:	0.05 – 100 m
Laser class:	2
Measuring accuracy, typical	
Inclination	± 1.5 mm
Measuring range:	0 – 360° (4 × 90°)
Power supply:	1 × 3.7 V Li-Ion Battery (1250 mAh)
Automatic shutdown:	5 min.
Weight, approx.	0.14 kg
Dimensions LxWxH	111 × 51 × 30 mm
Measurement units:	50 + 1
Protection and splashes:	
Tripod thread:	IP 54
Data:	1/4"
Android units:	Bluetooth® Smart, USB 2.0, Smartphone from Android 2.3.x, Tablet from Android 3.x.x



Article No.	Article Description	QTY
5334 4 100	LASER DISTANCE METER GLM 100C	1

Laser distance meter GLM 80

- The high-tech solution for convenient measurement
- New functionality with integrated 360° tilt sensor
- Precise and easy to use with automatically rotating, illuminated display
- Li-ion technology, allowing up to 25,000 individual measurements per charge
- Automatic storage of last 20 measured values and a constant
- Rechargeable via standard micro USB port
- Connectible timer function - for precise measuring from difficult positions
- Small and easy to handle
- With its sturdy design, it is a reliable aid for any construction site

Technical Data

Range:	0,05 - 80 m
Measuring precision:	± 1,5 mm
Measurements:	Length, surface and volume calculation Addition and subtraction, Pythagoras
Tilt measurements:	± 60° vertikal / 360° horizontal (4 x 90°)
Individual measurements:	per set of batteries 25.000
Dimensions/Weight:	111 x 51 x 31 mm / 0,14 kg
Other:	Dust and spray protection IP 54
Batteries:	1x 3,7 V Li-Ion Akku



Article No.	Article Description	QTY
5334 4 80	LASER DISTANCE METER GLM 80	1

Scope of delivery:

Laser distance meter GLM 80, micro USB charger, protective bag

Laser distance meter GLM 80+R60

- Integrated into R 60 Professional, the measuring rail especially developed for it, the GLM 80 professional turns into a digital inclinometer
- Integrated rail detection ensures that the device transfers to inclinometer mode when switched on
- With an accuracy of up to ± 0.2 °, roof rafters and stair stringers, for example, can be checked, or sanitary equipment aligned.

Technical Data

Measuring range:	0 – 360° (4 x 90°-Neigung)
Measuring precision	
Tilt measurement:	± 0,2°
Dimensions/Weight:	111 x 51 x 30 mm (GLM 80) 610 x 58 x 30 mm (GLM 80 + R 60) 0,14 kg / 0,6 kg (GLM 80 + R 60)

Article No.	Article Description	QTY
5334 4 8060	LASER DISTANCE METER GLM80+R60	1

Scope of delivery:

Laser distance meter GLM 80, measuring bar R 60, micro USB charger, protective bag



Laser distance meter GLM 150

- Greater functionality and ease of use for indoor use
- New functions, such as partial height measurements, height calculation and measurement of roof angles
- Measurements of areas, volume, and length up to 150 m with millimetre precision
- Easy handling, intuitive user interface and large, backlit 4-line display
- Durable ceramic optic carrier guarantees the greatest precision during the entire service life
- Multi-function measuring-pin for precise measurements of areas and edges which are difficult to access

Technical Data

Measuring range:	0,05 - 150 m
Measuring precision:	± 1 mm
Number of stored values:	30
Individual measurements:	set of batteries 30.000
Dimensions/Weight:	120 x 66 x 37 mm / 0,24 kg
Other:	Dust and spray water protection IP 54
Batteries:	4x 1,5 V (AAA)

Article No.	Article Description	QTY
5334 4 150	LASER DISTANCE METER GLM 150	1

Scope of delivery:

Laser distance meter GLM 150, carry strap, protective bag



Laser distance meter GLM 250 VF

- The laser distance meter with the largest reach
- Ideal for outdoor use: integrated target optics
- Optimal visibility of the laser point up to a distance of 250 m
- Maximum measuring performance Precision, even under unfavourable light conditions
- Large glass lens and ceramic optic carrier
- Numerous easy-to-use measurement features
- Fast and accurate calculation of lengths, area and volume
- Sufficiently robust for use on construction sites due to dust and splash protection IP 54

Technical Data

Measuring range:	0,05 - 250 m
Measuring precision:	± 1 mm
Target optics:	Yes
Number of values stored:	30
Individual measurements:	per set of batteries 30.000
Dimension/Weight:	120 x 66 x 37 mm / 0,24 kg
Other:	Dust and spray water protection IP 54
Batteries:	4x 1,5 V (AAA)

Article No.	Article Description	QTY
5334 4 250	LASER DISTANCE METER GLM250 VF	1

Scope of delivery:

Laser distance meter GLM 250 VF, carry strap, protective bag, 4 x 1.5V (AAA) batteries



Cross-line laser cross compact

- two well visible laser lines
- automatic design due to magnetic cushioned pendulum system
- optimum signal will display when the device is outside its level range
- incline mode to design pitches
- built-in pendulum stopping mechanism protects the device when being transported
- retractable base for secure hold for alignment work
- base foldable for space-saving when transporting
- always at hand in the practical carry bag
- easy to use: to switch laser cross on and off by pressing a button

applications:

- laying tiles, alignment work with interior design and decoration



Technical Data

laser class:	2 / <1 mW
laser wavelength:	635 nm
self-levelling range:	+/-4°
level accuracy:	+ 5 mm / 10 m
accepted work area:	up to 10 m
battery:	1x 1,5 V AA
dimensions (B x H x D)	
(collapsible base):	35 x 153 x 36 mm
weight (incl. battery):	0,13 kg

Article No.	Article Description	QTY
4716 92	CROSS-LINE LASER COMPACT	1

Line Laser Super Cross 2P

- Interior construction laser with 2 laser lines and additional plumb point on top and at the bottom, ideally suitable for tiles, studding, windows and doors etc.
- Automatic adjustment of the device due to magnetically insulated pendulum system
- The device is set to starting position and adjusts itself automatically in seconds
- The inclination mode enables a setting of slopes
- With pendulum locking for secure transport
- Adjustable console makes fixing of the device to the tripod or directly to the wall possible

Technical Data

Laser class:	2M
Laser type:	635 nm
Separately switchable lines:	
Horizontal line:	yes
Vertical line:	yes
Self-levelling range:	+/-4°
Levelling accuracy:	5 mm/10 m
Working range:	10/30 m
Battery:	3x 1.5 V AA
Size (L x W x H):	95 x 70 x 90 mm
Weight incl. holder:	0.9 kg

Article No.	Article Description	QTY
4716 90	LINE LASER SUPER CROSS 2P	1

Included in delivery:

- Laser 2P, adjustable console, carrying bag, batteries



Line-Laser 2 PRO

- Special high-performance laser diodes provide highly visible laser lines
- Thanks to two magnetic wall holders, the device can be used individually and in combination - on walls or on magnetic objects
- Ideal for attachment to drywall profiles
- Automatic level: Automatic alignment thanks to magnetically insulated pendulum system
- Additional inclination mode makes it possible to set out gradients
- Individually switchable laser lines
- High-capacity batteries can be charged outside the device by using external fast charger
- Transport lock: Pendulum lock protects the device during transport

Technical Data

Laser class:	2M < 5 mW
Laser wavelength:	635 Nm
Self-levelling range:	+/- 3°
Levelling accuracy:	Automatic
Received working range:	2 mm at 10 m
Battery:	3x 1.5 V AA, approx. 20 hours
Dimensions (L x W x H):	115 x 95 x 65 mm
Weight including batteries:	0.5 kg



Article No.	Article Description	QTY
4716 95 1	LINE LASER 2 PRO	1

Scope of delivery:

- Carrying bag, 2 magnetic wall holders, fast charger, high-capacity batteries (NiMH)

5P Line laser 2XP

- Special high-performance laser diodes provide high-visibility laser lines
- The 2 high-visibility laser lines are perfectly suited for aligning tiles, stud frames, windows, doors, etc.
- The 5 laser spots are each offset by 90° on the horizontal and vertical planes of the laser lines
- This means that 3 intersections are formed at the end of the laser lines made up of the laser line and spot. Plumb point and ceiling point make it easy to transfer markers from the ceiling to the floor
- Ideal for attachment to drywall profiles
- Automatic alignment thanks to magnetically damped pendulum system
- The additional inclination mode makes it possible to set gradients
- Individually switchable laser lines Out-of-level: optical and acoustic signals indicate whether the device is positioned outside its levelling range
- RX-Ready: the integrated hand receiver mode allows the laser lines to be detected with the optional laser receiver with up to 50 m range – ideal for all applications inside and outside
- Transport lock: pendulum lock protects the device during transport

Technical Data

Laser class:	2M < 1 mW
Laser wavelength:	635 nm
Separately switchable lines:	
Horizontal:	yes
Vertical:	yes
Self-levelling range:	± 3°
Levelling accuracy:	2 mm/10 m
Received working range:	20/40 m
Battery:	4 x 1,5 V AA
Weight:	550 g without wall bracket

Article No.	Article Description	QTY
4716 95 5	5P LINE LASER 2XP	1

Scope of delivery:

- Carry case
- Magnetic wall bracket
- Batteries



Line laser GTL 3

- In addition to two laser lines at an angle of 90 °, projects a third line at 45° for the precise and rapid alignment and laying of wall and floor tiles
- High level of accuracy of 0.2 mm/m
- Compact and lightweight design for optimal ease of use
- The additional 45° line is the perfect aid to precise work, particularly with renovation projects and the renovation of old buildings

Technical Data

Angle precision(0° bis 90° Winkel):	± 0,2 mm/m
Laser wave class:	635 Nm/· 1 mW/2
Dust and spray water protection:	IP 54
Field of application:	With target plate 20 m
Dimensions(L x B x H):	156 x 102 x 98 mm
Weight:	0,5 kg
Battery:	4x 1,5 V-LR6 (AA)

Article No.	Article Description	QTY
5334 22 3	LINE LASER GTL 3	1

Scope of delivery:

Line laser GTL 3, laser target plate, adjustment disc, protective bag



Point laser GPL 3

- Self-levelling 3-point horizontal and plumb laser for working indoors
- Allows precise transfer of a reference point from the floor to the ceiling
- Easy to use due to its very compact size
- Numerous options for mounting with a universal bracket

Technical Data

Laser wavelength:	635 Nm
Levelling precision:	± 0,3 mm/m
Self-levelling range:	± 5° longitudinal axis, ± 3° lateral axis
Dust and spray water protection:	IP 5X
Field of application:	30 m
Dimensions(L x B x H):	104 x 40 x 80 mm
Weight:	0,25 kg
Battery:	3x 1,5 V-LR6 (AA)

Article No.	Article Description	QTY
5334 21 3	POINT LASER GPL 3	1

Scope of delivery:

Point laser GPL 3, multi-function bracket, protective bag



Point laser GPL 5

- Self-levelling 5-point horizontal and plumb laser for working indoors
- For accurate transfer of right angles and reference points from the floor to the ceiling
- Easy to use due to its very compact size
- Numerous options for mounting with a universal bracket

Technical Data

Laser wavelength:	635 Nm
Levelling precision:	± 0,3 mm/m
Self-levelling range:	± 5° longitudinal axis, ± 3° lateral axis
Dust and spray water protection:	IP 5X
Field of application:	30 m
Battery:	3x 1,5 V-LR6 (AA)
Dimensions(L x B x H):	104 x 40 x 80 mm
Weight:	0,25 kg

Article No.	Article Description	QTY
5334 21 5	POINT LASER GPL 5	1

Scope of delivery:

Point laser GPL 5, multi-function bracket, protective bag



Point laser GPL 5

- Self-levelling 5-point horizontal and plumb laser for working indoors
- For accurate transfer of right angles and reference points from the floor to the ceiling
- Easy to use due to its very compact size
- Numerous options for mounting with a universal bracket

Technical Data

Laser wavelength:	635 Nm
Levelling precision:	± 0,3 mm/m
Self-levelling range:	± 5° longitudinal axis, ± 3° lateral axis
Dust and spray water protection:	IP 5X
Field of application:	30 m
Battery:	3x 1,5 V-LR6 (AA)
Dimensions(L x B x H):	104 x 40 x 80 mm
Weight:	0,25 kg

Article No.	Article Description	QTY
5334 21 5	POINT LASER GPL 5	1

Scope of delivery:

Point laser GPL 5, multi-function bracket, protective bag



Combo-laser GCL 25

- The GCL 25 Professional combines a dot and line laser into one device
- Five laser points allow the transfer of plumb points and horizontal reference marks
- Two additional laser lines make the GCL 25 Professional the ideal combo-laser for the construction trade
- Compact and space-saving, it is no longer necessary to purchase multiple devices
- High level of accuracy and reach for professional application
- Ease of use due to intuitive user guidance
- Robust device for use on construction sites (IP 54)

Technical Data

Laser wavelength:	635 Nm
Levelling precision:	± 0,3 mm/m, Lotpunkte ± 0,5 mm/m
Solder points:	bis ± 4°
Self-levelling range:	Lines 10 m / points max. 30 m
Dust and spray water protection	
Spring water protection:	IP 54
Battery:	4x 1,5 V-LR6 (AA)
Dimensions(L x B x H):	118 x 57 x 89 mm
Weight:	0,45 kg

Article No.	Article Description	QTY
5334 21 25	COMBO LASER GCL 25	1
5334 21 25 1	COMBO LASER GCL 25 + BS 150	1

Scope of delivery:

Art.-No. 5334 21 25:

- L-BOXX insert, protective bag

Art.-No. 5334 21 25 1:

- Laser target plate, L-BOXX insert, tripod BS 150, protective bag



Line laser GLL 2-80 P

- High level of working efficiency: performing simultaneously horizontal and vertical levelling work throughout a space with a single device
- Large working area: precise work with a diameter of up to 80 m, using the receiver, LR 2 Professional
- Ease of use: self-levelling up to 4° within 4 seconds
- Compact design

Technical Data

Laser wavelength:	640 Nm
Levelling precision:	± 0,2 mm/m
Self-levelling range:	bis ± 4°
Dust and spray water protection :	IP 54
Field of application-Ø:	80 m (with receiver) 40 m (without receiver)
Dimensions(L x B x H):	158 x 54 x 141 mm
Weight:	0,68 kg
Battery:	4x 1,5 V-LR6 (AA)

Article No.	Article Description	QTY
5334 22 280	LINE LASER GLL 2-80 P+BS 150	1

Scope of delivery:

- Laser target plate, tripod BS 150, protective bag



Line laser GLL 3-80 P

- Unlimited possible uses: a horizontal and two vertical 360° lines enable a variety of new applications for simultaneous marking, aligning and levelling indoors
- Self-levelling (4° in 4 seconds) very accurate (± 0.2 mm/m) and with the receiver, LR 2 Professional, a range of up to 80 m in diameter
- Compact, easy to handle and extremely robust (IP 54)
- Projection of the plumb point at the top and bottom with the second vertical line

Technical Data

Levelling precision:	± 0,2 mm/m
Self-levelling range:	bis ± 4°
Laser wavelength:	640 Nm
Dust and spray water protection:	IP 54
Field of application-Ø:	80 m (with receiver) 40 m (without receiver)
Battery:	4x 1,5 V-LR6 (AA)
Dimensions(L x B x H):	159 x 75 x 141 mm
Weight:	0,76 kg

Article No.	Article Description	QTY
5334 22 380	LINE LASER GLL 3-80 P+BS 150	1
5334 22 380 4	LINE LASER GLL 3-80 P+BS 250	1
5334 22 380 6	LINE LASER GLL 3-80 P+LR2	1
5334 22 380 7	LINE LASER GLL 3-80P+BM1+L-BO	1

Scope of delivery:

- **Art. no. 5334 22 380:** Laser target plate, tripod BS 150, protective bag
- **Art. no. 5334 22 380 2:** Laser target plate, 1 x 9V-6LR61 battery, universal bracket BM 1, receiver LR 2, transportation case
- **Art. no. 5334 22 380 4:** Laser target plate, universal bracket BM 1, L-Boxx



Line Laser GLL 3-80

- Efficient working thanks to the 3 × 360° lines
- High visibility of the red laser lines, thanks to modern high-performance diodes
- Horizontal and vertical levelling work can be carried out simultaneously with just one tool
- With two tripod connections for maximum working freedom
- Compact and robust design

Technical Data

Laser wavelength:	630 - 650 nm / < 10 mW
Laser class:	2
Laser line colour:	red
Levelling accuracy:	± 0.2 mm/m
Self-levelling range:	± 4°
Protection against dust and splashes:	IP 54
Working range Ø:	120 m (with receiver) 30 m (without receiver)
Tripod connection:	1/4" / 5/8"
Power supply:	4 × 1.5 V LR6 (AA)
Weight:	0.82 kg



Article No.	Article Description	QTY
5334 22 380 8	LINE LASER GLL 3-80 + BT 150	1

Delivery includes:

- Art.-No. 5334 22 380 8: Laser target plate, 4 × 1.5 V LR6 batteries, tripod BT 150, protective bag

Line Laser GLL 3-80 C / 3-80 CG

- Efficient working thanks to the 3 × 360° lines
- GLL 3-80 C with red laser lines
- GLL 3-80 CG with green laser lines for even better visibility
- Horizontal and vertical levelling work can be carried out simultaneously with just one tool
- With Bluetooth interface for remote-controlled operation and contactless adjustment via smartphone
- Operation with either 4 × 1.5 V batteries or 10.8 V / 12 V rechargeable battery
- With two tripod connections for maximum working freedom
- Compact and robust design

Technical Data

Model:	GLL 3-80 C	GLL 3-80 CG
Laser wavelength:	630 - 650 nm / < 10 mW	500 - 540 nm / < 10 mW
Laser class:	2	2
Laser line colour:	red	green
Levelling accuracy:	± 0.2 mm/m	± 0.2 mm/m
Self-levelling range:	± 4°	± 4°
Protection against dust and splashes:	IP54	IP54
Working range Ø:	120 m (with receiver) 30 m (without receiver)	120 m (with receiver) 30 m (without receiver)
Tripod connection:	1/4" / 5/8"	1/4" / 5/8"
Power supply:	4 × 1.5 V LR6 (AA) 12 V Li-ion battery	4 × 1.5 V LR6 (AA) 12 V Li-ion battery
Weight:	0.90 kg	0.90 kg



Pic. shows GLL 3-80 CG

Article No.	Article Description	QTY
5334 22 380 9	LINE LASER GLL 3-80C	1
5334 22 380 10	RECHA.LIN.LAS.GLL 3-80C 12V2AH	1
5334 22 380 11	RECHA.LIN.LAS.GLL3-80CG 12V2AH	1

Delivery includes:

- Art. No. 5334 22 380 9: Laser target plate, 4 × 1.5 V LR6 batteries, protective bag
- Art. No. 5334 22 380 10: Laser target plate, universal mounting BM 1, 1 × 12 V 2.0 Ah Li-ion battery, fast charger, protective bag, L-Boxx
- Art. No. 5334 22 380 11: Laser target plate, universal mounting BM 1, 1 × 12 V 2.0 Ah Li-ion battery, fast charger, protective bag, L-Boxx

Line Laser, Cross 2

- Special high-performance laser diodes produce high-visibility laser lines
- The two high-visibility laser lines are perfectly suited for aligning tiles, stud frames, windows, doors, etc.
- Magnetic clamp and wall bracket, so the device can be used singularly and in combination, horizontally and vertically
- Ideal for horizontal and vertical mounting on drywall profiles
- Additional inclination function makes it possible to set gradients
- Individually switchable laser lines
- Optical signals indicate whether the device is positioned outside its levelling range
- Hand receiver mode with **optional laser receiver** with a range of up to 40 m
- Transport lock: Pendulum lock protects the device during transport

Technical Data

Accuracy:	2 mm at 10 m
Self-levelling range:	$\pm 3^\circ$
Operating range depends on room brightness:	20 m
Laser wavelength:	635 nm
Laser class:	2 <1 mW
Mounting thread:	1/2" and 5/8"
Power supply:	4x AA batteries
Working temperature:	0 to 50 °C
Weight:	0.57 kg

Article No.	Article Description	QTY
4716 20	LINE-LASER CROSS 2	1

Delivery includes:

- Transport case, clamp and wall bracket, batteries



Line Laser, Cross 2G

- Special green high-performance laser diodes produce high-visibility laser lines
- The two high-visibility laser lines are perfectly suited for aligning tiles, stud frames, windows, doors, etc.
- Magnetic clamp and wall bracket, so the device can be used singularly and in combination, horizontally and vertically
- Ideal for horizontal and vertical mounting on drywall profiles
- Additional inclination function makes it possible to set gradients
- Individually switchable laser lines
- Optical signals indicate whether the device is positioned outside its levelling range
- Hand receiver mode with **optional laser receiver** with a range of up to 40 m
- Transport lock: Pendulum lock protects the device during transport

Technical Data

Accuracy:	2 mm at 10 m
Self-levelling range:	$\pm 3^\circ$
Operating range depends on room brightness:	20 m
Laser wavelength:	635 nm
Laser class:	2 <1mW
Mounting thread:	1/4" and 5/8"
Power supply:	4x AA batteries
Working temperature:	0 to 50 °C
Weight:	0.57 kg

Article No.	Article Description	QTY
4716 20 1	LINE-LASER CROSS 2G	1

Delivery includes:

- Transport case, clamp and wall bracket, batteries



Line Laser, Plane 3D

- Laser with three bright 360-degree laser lines
- Simple plumb-line function with laser crosses
- Magnetic clamp and wall bracket, so the device can be used singularly and in combination, horizontally and vertically
- Ideal for horizontal and vertical mounting on drywall profiles
- Automatic alignment thanks to magnetically damped pendulum system
- Additional inclination function makes it possible to set gradients
- Optimum for work near the ceiling
- Optical signals indicate whether the device is positioned outside its levelling range
- Pendulum lock protects the device during transport

Technical Data

Laser class:	2 <1 mW
Laser wavelength:	650 nm
Levelling accuracy:	± 3.5°
Operating range (depends on room brightness):	15 m
Protection class:	IP 54
Working temperature:	0 – 50 °C
Weight:	0.67 kg

Article No.	Article Description	QTY
4716 95 3	LINE-LASER PLANE 3D	1

Delivery includes:

- Clamp and wall bracket, transport case, 2× AA batteries



Rotation Laser, Cubus 110S

- Waterproof housing
- Fully automatic alignment thanks to electronic servo motors with temperature-stabilised sensors
- Shutdown in the event of extraneous influences by means of ADS
- Reference beam facilitates plumbing and alignment of partition walls
- SensoLite 110 hand receiver with LC display on the front; powerful magnets enable mounting on magnetic surfaces
- Remote control can be used to control all the rotation laser's functions up to a max. of 40 m
- Mountable tripod and wall bracket with 5/8" thread for vertical use
- Transport lock

Technical Data

Laser class:	2 <1 mW
Laser wavelength:	635 nm
Working range:	100 m radius
Accuracy:	±1.5 mm/10 m
Levelling:	Automatic
self-levelling:	± 4°
Protection class:	Device IP 66 / Hand receiver IP 56
Weight:	1.3 kg

Article No.	Article Description	QTY
4716 110 2	ROTATION LASER,CUBUS 110S	1

Delivery includes:

- Tripod and wall bracket, remote control, hand receiver, universal bracket, battery, charger, transport case



Rotation Laser, Cubus Green 110S

- Waterproof housing
- Fully automatic alignment thanks to electronic servo motors with temperature-stabilised sensors
- Shutdown in the event of extraneous influences by means of ADS
- Reference beam facilitates plumbing and alignment of partition walls
- SensoLite 110 hand receiver with LC display on the front; powerful magnets enable mounting on magnetic surfaces
- Remote control can be used to control all the rotation laser's functions up to a max. of 40 m
- Mountable tripod and wall bracket with 5/8" thread for vertical use
- Transport lock

Technical Data

Laser class:	2 <1 mW
Laser wavelength:	635 nm
Working range:	100 m radius
Accuracy:	±1.5 mm/10 m
Levelling:	Automatic
self-levelling:	± 4°
Protection class:	Device IP 66 / Hand receiver IP 56
Weight:	1.3 kg

Article No.	Article Description	QTY
4716 110 1	ROTATION LASER,CUBUSGREEN 110S	1

Delivery includes:

- Tripod and wall bracket, remote control, hand receiver, universal bracket, battery, charger, transport case



Rotation laser DigiPlus 410 S

- 2-axis slope laser for building construction, civil engineering and road construction
- Digital slope adjustment: The horizontal level can be digitally tilted in the X and Y axis
- Automatic sensors: Electronic actuators with temperature-stable sensors allow fully automatic alignment
- ADS-tilt: Automatic switch-off through ADS (Anti-Drift System) in the event of external influences
- Vertical reference beam for plumb lines and aligning partitions
- The large, illuminated LC display shows all settings
- The hand receiver 410 can quickly capture the laser beam with the extra long receiver unit over long distances
- Robust, waterproof housing with powerful head and side magnets
- The manual slope mode allows the creation of downward gradients over 6°
- Transportation lock: A special engine brake protects the device during transportation

Technical Data

Laser classification:	3R, < 5 mW
Laser wavelength:	635 nm
Levelling:	horizontal/ vertical Automatic
Self-levelling:	±6°
Levelling precision:	±0,75 mm auf 10 m
Received range of application:	max. 400 m Radius
Dimensions(L x B x H):	165 x 205 x 215 mm
Weight:	2.6 kg



Article No.	Article Description	QTY
4716 410	ROTATION LASER DIGIPLUS 410S	1

Scope of delivery:

- SensoLite 410, universal bracket, carry case, battery, battery compartment, remote control, power pack/charger, batteries

Rotation Laser Express 410

- robust, water-proof housing with powerful head and side magnets
- sensor automatics: fully automatic alignment by means of electronic servo-motors and temperature-stable sensor technology
- ADS tilt: automatic cut-off if tampered with thanks to anti-drift system (ADS)
- anti-shake: for quick set-up, on vibrating surfaces and when windy
- the SensoLite 410 can quickly detect the laser beam at large distances thanks to its extra-long receiving unit
- LC displays at front and back, super-bright signal LEDs in three colours as well as acoustic melodies display the height of the laser beam
- transport lock: a special motor brake protects the device when being transported

Technical Data

Laser class:	2M, < 1 mW
Levelling precision:	635 nm
Levelling:	horizontal / vertical automatically
Self-levelling:	±4°
Levelling precision:	±0,75 mm / 10 m
Reception working range:	max. 400 m Radius
Dimension(L x W x H):	145 x 210 x 205 mm
Weight:	2,4 kg



Article No.	Article Description	QTY
4716 410 2	ROTATION LASER EXPRESS 410	1
4716P 410 3	ROTATION LASER EXPRESS 410SET	1

Scope of delivery:

Art.-No. 4716 410 2: L-BOXX® 238, SensoLite 410, universal holder, remote control, high-Performance battery, battery compartment, mains charger, batteries

Art.-No. 4716P 410 3: L-BOXX® 238, SensoLite 410, universal holder, remote control, high-Performance battery, battery compartment, mains charger, batteries, tripod Art.-no. 4716 165, laser diff..levelling rod 250 Art.-no. 4716 5

Rotation Laser 410 S

- Fully automatic rotation laser for interior completion and building construction, automatic alignment of device using electronic spirit levels and servo motors with temperature-stabilised sensors
- Device is placed in operating position and aligns itself automatically
- Device can be used horizontally and vertically
- All functions can be remote controlled

Technical Data

Laser class:	2 <1 mW
Laser wavelength:	635 nm
Levelling:	electronic self-levelling
Self-levelling:	± 5°
Levelling accuracy:	±1 mm at 10 m
Visible plumb beam:	yes
Scanning:	yes
Received working range:	300 m radius
Water and dust protection:	IP 66
Dimension (L x W x H):	215 x 205 x 165 mm
Weight:	2.6 kg

Article No.	Article Description	QTY
4716 410 5	ROTATION LASER 410S	1

Scope of delivery:

- Rotation laser410 S, hand-held receiver, universal holder, remote control, rechargeable batteries, charger, transport case, batteries



Laser hand receiver

- display front and back
- three sensitivity levels
- five-level display
- extremely loud Piezo dialling tone
- clearly arranged keypad with on / off switch
- sensitivity and volume button
- head and side magnets
- reception range 300 m for red lasers, 200 m for green lasers
- sturdy design
- incl. universal support to attach e.g. to square, round or oval levelling rods

Article No.	Article Description	QTY
4716 310 1	LASER HAND RECEIVER	1

Delivery includes:

holder, instruction manual, battery



Laser hand receiver Master 400

- For **red** and infrared rotation lasers with a very large reception field for precise measurement of height differences
- Easy recognition of laser plane thanks to long reception range with multiple tiered displays of laser position
- Digital millimetre display accurately shows the difference missing from the nominal height
- Reception window 127 mm in length
- Acoustic signal
- Special menu function enables user-defined programming
- Extremely robust universal bracket for mounting on round and angular measuring poles
- Calibration function for increased accuracy
- Rubber coating
- LCD display on front and back
- Horizontal spirit level

Article No.	Article Description	QTY
4716 400 7	LASER HAND RECEIVER MASTER 400	1

Delivery includes:

- Universal bracket, 2x AA batteries



Laser Goggles

Article No.	Article Description	QTY
4716 4	LASER GOGGLES	1
5334 95 2	LASER GOGGLES GREEN	1



Rotation laser GRL 300 HVG

- Green laser line: Up to four times better visibility in comparison to a red laser line
- Quickly adjustable for horizontal and vertical use due to automatic self-levelling by 8% ($\pm 5^\circ$)
- The connectible shock warning function prevents levelling errors in the event of tremors or vibrations

Technical Data

Laser classification:	3R
Levelling precision:	$\pm 0,1$ mm/m
Levelling:	horizontal/vertical
Self-levelling range:	$\pm 5^\circ$
Rotation speed:	150, 300, 600 U/min
Scan function:	10°, 25°, 50°
Point function:	yes
Field of application-Ø / with receiver:	100 m / 300 m
Dust and spray water protection:	IP 54
Dimensions(L x B x H):	190 x 180 x 170 mm
Weight:	1,8 kg

Article No.	Article Description	QTY
5334 23 300	ROTATION LASER GRL 300HVG+RC1	1
5334 23 300 1	ROTATION LASER GRL 300HVG SET	1

Scope of delivery:

Art. no. 5334 23 300: Remote control RC 1 Professional, wall-mount WM 4 Professional, battery (NiMH), battery housing, 2 x 1.2V-HR20 (D) (9 Ah), 2 x 1.5V-LR20 (D), laser goggles, target plate, charger with adapter, transportation case

Art. no. 5334 23 300 1: Receiver LR 1G Prof., remote control RC 1 Prof., measuring stick GR 240 Prof., tripod BT 300 HD Prof., wall-mount WM 4 Prof., battery (NiMH), battery housing, 2 x 1.2V-HR20 (D) (9 Ah), 2 x 1.5V-LR20 (D), laser goggles, target plate, charger with adapter, transportation case



Rotation laser GRL 300 HV

- Easy to use due to one button per function and self-explanatory display
- Quickly adjustable for horizontal and vertical use due to automatic self-levelling by 8% ($\pm 5^\circ$)
- The connectible shock warning function prevents levelling errors in the event of shocks or vibrations

Technical Data

Laser classification:	3R
Levelling precision:	$\pm 0,1$ mm/m
Levelling:	horizontal/vertical
Self-levelling range:	$\pm 5^\circ$
Rotation speed:	150, 300, 600 U/min
Scan function:	10°, 25°, 50°
Point function:	yes
Field of application-Ø / mit Empfänger:	60 m / 300 m
Dust and spray water protection:	IP 54
Dimensions(L x B x H):	190 x 180 x 170 mm
Weight:	1,8 kg

Article No.	Article Description	QTY
5334 23 300 2	ROTATION LASER GRL 300HVG+RC1	1
5334 23 300 3	ROTATION LASER GRL 300HV SET	1



Rotation laser GRL 400 H

- Ease of use: One-button function
- Self-levelling by 8% ($\pm 5^\circ$) for horizontal use
- Auto shock warning prevents levelling errors in the event of vibrations or tremors
- Precision even over long distances
- The GRL 400 H Professional can be used with a receiver in a working area of up to 400 m, and that with an accuracy of 0.08 mm
- For use in building construction, civil engineering and landscaping

Technical Data

Laser classification:	2M
Levelling precision:	$\pm 0,08$ mm/m
Levelling:	Horizontal
Self-levelling range:	$\pm 5^\circ$
Rotation speed:	600 U/min
Dust and spray water protection:	IP 56
Field of application-Ø / mit Empfänger:	20 m / 400 m
Dimensions(L x B x H):	190 x 180 x 170 mm
Weight:	1,8 kg



Article No.	Article Description	QTY
5334 23 400	ROTATION LASER GRL 400 H+LR1	1
5334 23 400 1	ROTATION LASER GRL 400 H SET	1

Scope of delivery:

Art. no. 5334 23 400: Receiver LR 1 Professional, battery (NiMH), battery housing, 2 x 1.2V-HR20 (D) (9 Ah), 2 x 1.5V-LR20 (D), charger with adapter, transportation case

Art. no. 5334 23 400 1: Receiver LR 1 Professional, measuring stick GR 240 Professional, tripod BT 170 HD Professional, battery (NiMH), battery housing, 2 x 1.2V-HR20 (D) (9 Ah), 2 x 1.5V-LR20 (D), charger with adapter, transportation case

Rotation laser One Touch H

- Robust, watertight housing
- Simple one-button operation: Device is ready to operate (ADS tilt active) at the press of a button after a brief setup time
- Anti-Shake: For fast setup on surfaces affected by vibration and in case of wind
- ADS tilt: Automatic shutdown in the event of extraneous influences thanks to ADS (Anti-Drift System)
- Manual inclination mode makes it possible to set out gradients of up to 5°
- Remote control can be used to control all the rotation laser's functions from up to 40 m
- Device can be remote-controlled from all sides thanks to 4 IR receive diodes
- Transport lock: A special motor brake protects the device during transport
- Long operating time thanks to effective power supply

Technical Data

Laser class:	2, < 1 mW
Laser wavelength:	635 nm
Levelling:	Automatic horizontal
Levelling accuracy:	± 0.75 mm / 10 m
Self-levelling range:	$\pm 5^\circ$
Power supply:	High-capacity battery
Protection class:	Quadrum IP 66, SensoLite 410 IP 67
Working range-Ø:	800 m
Dimension (L x W x H):	205 x 215 x 165 mm
Weight:	2.6 kg



Article No.	Article Description	QTY
4716 410 4	ROTATION LASER ONE TOUCH H	1

Scope of delivery:

Optical levels GOL 20 G/D Professional

- Ideal for outdoor use due to its robust casing with dust and spray water protection (IP 54)
- High speed lens for a sharp image of the target
- Safe transportation due to a locking device for the compensator

Technical Data

Unit of measurement:	400 Gon / 360°
Angle precision:	1 Gon / 1°
Field of application:	60 m
Enlargement:	20-fach
Levelling precision:	3 mm over 30 m
Dimensions/Weight:	215 x 135 x 145 mm / 1,7 kg
Dust and spray water protection :	IP 54



Article No.	Article Description	QTY
5334 3 20	OPT.LEVEL GOL 20 G PROFESSION.	1
5334 3 20 1	OPT.LEVEL GOL 20 D PROFESSION.	1

Scope of delivery:

Lens cap, plumb bob, Allen key, adjustment pin, transportation case

Optical level, GOL 26 G/D Professional

- Designed for outdoor use with its sturdy metal housing, resistant to dust and spray water (IP 54)
- Robust design with an in-built target collimator and integrated circular level
- Carrying case with a locking device for the compensator to ensure safe transportation

Technical Data

Unit of measurement:	400 Gon / 360°
Angle precision:	1 Gon / 1°
Field of application:	100 m
Enlargement:	26-times
Levelling precision:	1,6 mm to 30 m
Dimension/Weight:	215 x 135 x 145 mm / 1,7 kg
Dust and spray water protection:	IP 54



Article No.	Article Description	QTY
5334 3 26	OPT.LEVEL GOL 26 G PROFESSION.	1
5334 3 26 1	OPT.LEVEL GOL 26 D PROFESSION.	1

Scope of delivery:

Lens cap, plumb bob, Allen key, adjustment pin, transportation case

Levelling Device

- Bright high optical performance
- Practical rapid sight
- Magnetically insulated compensator
- 26-fold zoom
- Standard deviation 2.5 mm / km
- 360° horizontal circle
- The device can be calibrated completely ue to 2 axis alignment of the cross hair
- With transport lock

Article No.	Article Description	QTY
4716 26	LEVELLING DEVICE	1
4716 26 1	LEVELLING SET	1

Included in delivery: Carrying bag with belt, plumb bob, allen key, adjusting needle set: levelling device, battery, tripod 165 cm, telescopic levelling height: 5 m



Surface laser GSL 2

- Greater reliability with a full scan of the entire area, and that in an even shorter period
- Accurately indicates bumps using a simple principle: a line = level, divided line = uneven
- Ease of use and convenient operability with the remote control
- Ideal for construction managers, screed layers, surveyors and all til-lage trades
- Two lines are projected parallel with the floor. With level flooring, the two lines appear as one line; with an uneven floor, both lines appear
- GSL 2 Professional can be pivoted a radius of 120° via electric remote control
- Thus, large areas can be quickly and reliably checked
- Calculates uneven areas to millimetre precision with the aid of a target plate
- For the greatest precision in finishing work

Technical Data

Levelling precision:	± 0,3 mm/m
Self-levelling range:	bis ± 4°
Laser diode/-class:	5 mW/3 R
Dust and spray water protection:	IP 54
Battery:	10,8-V-Lithium-Ions
Field of application:	20 m
Dimension(L x B x H):	80 x 42 x 96 mm
Weight:	With batteries approx. 1,5 kg

Article No.	Article Description	QTY
5334 22 2 1	SURFACE LASER GSL 2	1

Scope of delivery:

Protective bag, laser goggles, instructions, L-BOXX, remote control RC 2, target plate, 3 x 1.5V-LR6 (AAA) batteries (for remote control RC 2 Professional)



Compact building moisture measuring device

- Moisture measuring device for measuring wood and building moisture
- Selection of different wood and building materials enables material-specific measurement and increased accuracy
- All relevant information (material, measured values, bar graph, MIN/MAX) is shown simultaneously on the large, illuminated LC display
- LED wet/dry indicator: the 12 coloured LEDs (green = dry, yellow = damp, red = wet) instantly show the degree of moisture in the measured material
- Quick location of moisture in indicator mode determines increasing/decreasing moisture using comparative measurements based on a neutral scale

Technical Data

Measuring range/accuracy:

Wood: 0 – 30% ±1%
30 – 60 % ±3 %
60 – 90 % ±4%

Other materials: ±0.5 %

Working temperature: 0–40°C

Power supply: 4× AAA

Weight: 0.186 kg

Article No.	Article Description	QTY
4716 3 2 2	COMP.BUILD.MOIS.MEASURING DEV	1

Delivery includes:

- Protective bag, protective cap with self-testing function, batteries



Building moisture measuring device Master

- Moisture measuring device for measuring wood and building moisture
- Selection of different wood and building materials enables material-specific measurement and increased accuracy
- All relevant information (material, measured values, bar graph, MIN/MAX) is shown simultaneously on the large, illuminated LC display
- LED wet/dry indicator: the 12 coloured LEDs (green = dry, yellow = damp, red = wet) instantly show the degree of moisture in the measured material
- Quick location of moisture in indicator mode determines increasing/decreasing moisture using comparative measurements based on a neutral scale

Technical Data

Measuring range/accuracy:

Wood: 0 – 30% ±1%
30 – 60 % ±2%
60 – 90 % ±4%

Other materials: ±0.5%

Working temperature: 0–40°C

Power supply: 4× AAA

Weight: 0.186 kg

Article No.	Article Description	QTY
4716 3 6	BUILD.MOIST.MEAS.DEV.MASTER	1

Delivery includes:

- Protective bag, protective cap with self-testing function, batteries



Depth electrodes

- For the measurement of moisture in building and insulating materials
- Selective moisture measurement in concealed building sections
- Determine moisture distribution in multi-layered wall or ceiling structures
- Electrodes can be inserted through edge strip or at the joint between wall and ceiling
- For the measurement of moisture in homogeneous building materials

Article No.	Article Description	QTY
4716 3 4 2	DEPTH ELECTRODES	1



‘Profi’ building moisture measuring device

- Non-destructive measurement of material moisture via a capacitive measuring procedure.
- Select material and determine moisture in % by placing the device on the surface
- 56 wood and 6 other building material types
- Index mode and index zoom mode:
- Index mode: General measuring range for a wide variety of wood/building materials/composite materials
- Index zoom mode:
 - Special measuring range for hard materials (concrete, screed)
- AutoHold function:
 - the measured value is automatically held on screen as soon as it becomes stable. This is signalled visually and acoustically.
- illuminated dot matrix display: offers a flexible display of measured values and text
- LED wet/dry indicator: the 12 coloured LEDs (green = dry, yellow = damp, red = wet) instantly show the degree of moisture in the measured material
- Wet alarm:
 - if wet material is detected, a warning signal sounds in addition to the red LED

Article No.	Article Description	QTY
4716 3 1 1	BUILD.MOISTR.MEAS.DEV.PROFI	1

Scope of delivery:

- Portable case
- Battery



Room humidity meter Clima Check

- Ambient temperature: Relative air humidity
- Min/max display: The minimum or maximum measured value is displayed on request
- Measured values can be indicated in °C or °F
- Can be used as a desktop device with a fold-out stand/clip or can be attached to magnetic surfaces using built-in magnetic holder

Technical Data

Ambient temperature:	0 °C – 50 °C
Accuracy:	± 1 °C
Relative air humidity:	20 % rH – 99 % rH
Accuracy:	± 5 % rH (25 % rH – 85 % rH)
Operating temperature:	0 °C – 50 °C
Power supply:	1× AAA 1.5 V alkaline cell
Dimension (B × W × T):	66 × 57 × 17 mm
Weight:	47 g incl. batteries
Battery:	1× 1.5 V AAA



Article No.	Article Description	QTY
4716 3 5	ROOM HUMID.METER CLIMA CHECK	1

Ortungsgerät Profi Plus

- Universal detector for wood, metal, copper, iron and live wires
- The MultiFinder Plus can be used easily and safely thanks to user prompts shown on the liquid crystal display
- Auto calibration: Automatic calibration makes it easier to adapt the device for use on various surfaces and for detecting a narrower range of objects
- Audible and visual signals ensure easier handling and detection of objects
- A high level of functional safety is ensured by special warnings
- Special feature: Even buried wires that are not live are detected in metal mode
- Single button operation for toggling between various modes

Technical Data

Tiefenfindung:	
Holz:	ca. 4 cm
Metall:	ca. 10 cm
Kupfer:	ca. 5 cm
Armierung:	ca. 10 cm
Kabel 110-230 V:	ca. 4 cm

Article No.	Article Description	QTY
4716 11	DETECTOR PROFI PLUS	1



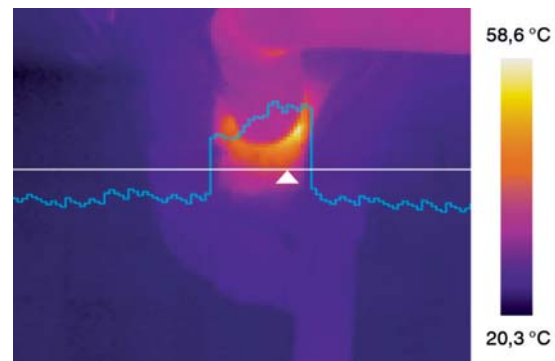
Compact thermal imaging camera

- High resolution 2.8" colour display to safely evaluate and analyse temperature conditions
- Infrared sensor with 80 × 80 pixels resolution and focussing infrared lens together allow detailed and versatile image analysis
- Broad measuring range from -20 °C to 350 °C, adjustable emission value range 0.01 – 1.0 or preset material table
- Analysis in various image modes:
 - Full screen: Infrared image VIS:
 - Infrared / Visual image
 - Picture-in picture: Infrared / digital image, digital / infrared image
- Standard colour palette choice: IRON, RAINBOW, GREY, GREY-INV
- Central measurement point for temperature analysis and additional automatic hot/cold spot marking
- Measured value corrections for ambient and reflected temperature allow simple compensation for interference
- Integrated PC interface via USB 2.0 for seamless data exchange and additional PC camera function
- Simple, standardised operation via easily accessible menu buttons



Technical Data

IR-Sensor:	80 × 80 measuring points, 25 fps Uncooled microbolometer, 8 – 14 μm
IR-Optics:	Germanium objective lens 17° × 17° field of view (FOV) 3.78 Mrad spatial resolution(FOV) adjustable focus 0.5 – 5 m
Thermal sensitivity:	NETD, 0.1 °C
Accuracy:	±2 °C or ±2 % of measured value;
Measuring range:	-20 °C – +150 °C LO range 0 °C – + 350 °C HI range
Display:	2.8" TFT-colour display
Picture modes:	Infrared VIS picture-in-picture
Picture function:	1 – 32 × digital zoom
Format:	MPEG-4 standard max.1280 × 960 pixels 30 fps, 60 min on memory card
Storage function:	Micro-SD card drive 16 GB
Target laser:	Laser class 2 < 1 mW
Anschlüsse:	USB, Micro-SD, Video (HDMI), Audio, Headphones/microphone
Working temperature:	-20 °C – 50 °C
Power supply	Li-Ion battery pack 3.7 V/2.6 Ah
Weight:	0.5 kg incl. battery pack



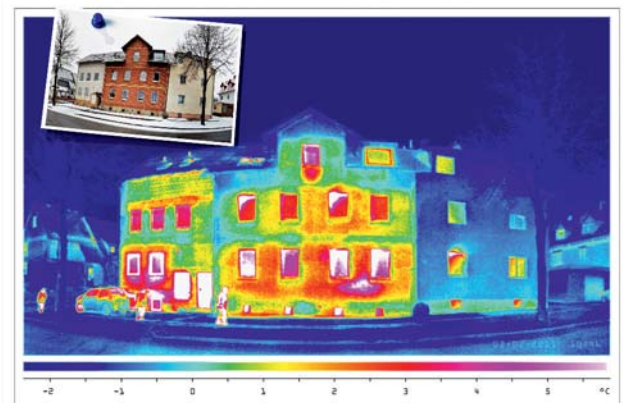
Article No.	Article Description	QTY
4716 1000 1	THERMAL IMAGING CAMERA COMPACT	1

Scope of delivery:

- Carry case
- Li-ion battery pack
- Charging cable
- USB cable
- Video connection cable
- 8 GB Micro SD card with adapter

Thermal Imaging Camera Vision

- large, high-resolution 3.5" colour display for direct control and analysis
- automatic hot/cold point marking and isotherm alarm function
- image acquisition for documentation with additional voice recording via integrated microphone
- simple, standardised operation via large, readily accessible menu keys
- infrared sensor with 160 x 120 pixel resolution allows flexible image analysis rich in detail
- high-speed infrared sensor (50 fps), suitable for quick and dynamic scenes
- large measuring range from -20°C to 350°C, quick-range set-up, optimal measuring range setting via direct keys
- analysis in various image modes (switchable): full image; infrared image; digital
- picture-in-picture image; infrared/digital image; digital/infrared MIX image; infrared-digital image cross-fade
- standard colour palettes and custom colour palettes, freely definable user-specific
- colour palettes
- measurement corrections for ambient and offset temperature, relative humidity, measuring distance
- enhanced real-time analysis
 - 3 measuring points, 2 measuring lines (horizontal/vertical)
 - 2 measuring areas (with min/max/average calculation)



Technical Data

IR-Sensor:	160 x 120 pixel resolution uncooled microbolometer, 8-14 µm
IR-optics:	Interchangeable germanium lens, 33° x 26° field of view(FOV) 3,33 mrad spatial resolution (IFOV) manual fokus, 0,3 m min.
Thermal sensitivity:	80 mK NETD, 0,08 °C
Precision:	± 2 °C oder ± 2 % from reading
Measuring range:	-20 °C – 400 °C
Display:	3,5" TFT-colour display with touchscreen
Image modes:	Infrared image, digital image, picture-in-picture MIX-Bild
Image function:	1 – 2x digital zoom
Digital camer:	Rotation 0° – 360°, 1° increments
Format:	Resolution: 640 x 480 Pixel JPEG Format, max. 640 x 480 Pixel
Storage function:	MPEG-4 Standard, 640 x 480 Pixel, 30fps
Target laser:	Micro-SD-card drive up to 16 GB
Connections:	Laser class 2 < 1 mW USB, Micro-SD, Video
Protection class:	Audio, mikrophone/headphones IP65, drop test 2 m, impact 25 g (IEC60068-2-29), vibration 2 g (IEC60068-2-6)
Power supply:	Li-Ion battery pack 7,4V / 2,0 Ah
Dimensions:	243 mm x 103 mm x 160 mm
Weight:	920 kg (incl. battery pack)

Article No.	Article Description	QTY
4716 2000	THERMAL IMAGING CAMERA VISION	1

Scope of delivery:

L-BOXX®, 1.2 Li-ion battery packs with external charging station and internal adapter, USB cable, video connection cable, quick-reporting software, 2 GB micro-SD card with adapter, 1/4" tripod connection

Multi-detector GMS 120

- Prevention of errors in implementation with automatic calibration
- Reliable detection of low-lying objects up to 12 cm depth
- Reliable display of objects on colour LED light ring with selection aperture
- Better visibility due to illuminated display
- Precise display of object centre with the „Centre-Finder“, scale as well as display of material properties

Technical Data

Detectable materials:	Wood substructures, ferrous metals, non ferrous metals conductive cables
Max. detection depth:	ferrous metals 120 mm, non-ferrous 80 mm, conductive cables 50 mm, wooden substructures 38 mm
Automatic switch-off:	approx. 5 min
Dimensions/Weight:	200 x 85 x 32 mm / 270 g
Water spray protection:	IP 54



Article No.	Article Description	QTY
5334 1 120	MULTI DETECTOR GMS 120	1

Scope of delivery:

Protective bag, wrist strap, 1 x 9V-6LR61 battery

Wall scanner D-TECT 150

- The specialist tool for all professionals in the field of installation who want to avoid damage when drilling
- Ultra-broadband radar sensors for precise location of ferrous/non-ferrous metals, live wires, wooden beams and even plastic pipes (floor and wall heating)
- Maximum detection depth: 15 cm, no calibration required
- Display of maximum drilling depth and material properties
- Five different modes allow for optimum positioning performance in all types of building material

Technical Data

Detectable materials:	Plastic pipes, wooden substructures ferrous metals, non-ferrous metals conductive cables
Max. detection depth:	150 mm
Precision:	± 5mm
Dimension / Weight :	220 x 97 x 120 mm / 700 g
Dust and spray water protection:	IP 54



Article No.	Article Description	QTY
5334 1 150	WALLSCANNER D-TECT 150	1

Scope of delivery:

Protective bag, 4 x 1.5V-LR6 (AA) batteries

Wall scanner D-TECT 150 SV

- Positioning in difficult environments
- Three operating modes for concrete
- The signal view/SV mode delivers reliable results in particularly difficult measuring environments
- Ultra-broadband radar sensors for positioning with millimetre precision
- Seven different modes allow optimal positioning performance in all building materials
- Display of object depth allows easy identification of concrete overlaps

Technical Data	
Detectable materials:	Plastic pipes, wooden substructures ferrous metals, non-ferrous metals conductive cables
Max. detection depth:	150 mm
Precision:	± 5 mm
Dimension / Weight :	220 x 97 x 120 mm / 700 g
Dust and spray water protection:	IP 54

Article No.	Article Description	QTY
5334 1 150 1	WALLSCANNER D-TECT 150 SV	1

Scope of delivery:
Protective bag, 4 x 1.5V-LR6 (AA) batteries



Wall bracket, WM 4 Professional

- Flexible mounting of bracket
- Height adjustment with locking mechanism for safe and accurate alignment

Article No.	Article Description	QTY
5334 93 4	WALL BRACKET WM 4	1



Universal holder BM 1 with ceiling clamp

- Versatile on-site fixing options for use with point and line lasers weighing up to 1.0 kg
- With 1/4" tripod thread - fine adjustment range 6 cm
- Flexible mounting of holder with 4 fixing options using screws with magnets with strips on tripod
- Height adjustable and lockable for secure, precise alignment

Article No.	Article Description	QTY
5334 93 7	UNIV.HOLDER BM1+CEILING CLAMP	1



Wall Holder

- For all rotary and line lasers
- With adjustable wheel for precise height adjustment
- Clamping holder for hanging to construction elements

Article No.	Article Description	QTY
4716 2 2	WALL HOLDER LASER	1



Angle Plate

- Suitable for all tripods with 5/8" mount
- Range of adjustment from 0° to 90°
- With fine adjustment

Article No.	Article Description	QTY
4716 2 1	ANGLE PLATE	1



Construction tripod BS 150

Technical Data

Article No.	5334 93 150	5334 92 250
Tripod Thread:	1/4"	1/4"
Dimension:	55 - 157 cm	97 - 250 cm
Weight:	1.3 kg	3.4 kg

Article No.	Article Description	QTY
5334 93 150	CONSTRUCTION TRIPOD BT 150	1
5334 92 250	CONSTRUCTION TRIPOD BT 250	1



5334 93 150

5334 92 250

Construction tripod BT 160

Technical Data

Tripot socket:	5/8" x 11
Dimension:	97 - 160 cm
Weight:	4.0 kg

Article No.	Article Description	QTY
5334 92 160	CONSTRUCTION TRIPOD BT 160	1



Construction tripod BT 170 HD

Technical Data

Tripod socket:	5/8" x 11
Dimension:	107 - 165 cm
Weight:	5.5 kg

Article No.	Article Description	QTY
5334 92 170	CONSTRUCTION TRIPOD BT 170 HD	1



Construction tripod BT 300 HD

Technical Data

Tripod socket:	5/8" x 11
Dimension:	122 - 295 cm
Weight:	7.2 kg

Article No.	Article Description	QTY
5334 92 300	CONSTRUCTION TRIPOD BT 300 HD	1



Measuring stick, GR 240 Professional

Technical Data

Dimension:	to 240 cm
Weight:	1.3 kg

Article No.	Article Description	QTY
5334 98 240	MEASURING STICK GR 240	1



Measuring stick, GR 500 Professional

Technical Data

Dimension:	500 cm
Weight:	1.98 kg

Article No.	Article Description	QTY
5334 98 500	MEASURING STICK GR 500	1



Telescopic staff, BT 350 Professional

Technical Data

Dimension:	140 - 350 cm
Weight:	2.5 kg

Article No.	Article Description	QTY
5334 98 350	TELESCOPIC STAFF BT 350	1



Laser tripod

aluminium tripod art. no. 4716 165:

- 5/8" thread adapter, light design, sturdy steel base, milled supporting surface, hook for plumb bob, quick locking mechanism

elevator tripod art. no. 4716 300 1:

- 5/8" thread adapter
- integrated professional elevator lift
- extremely long crank extension provides a larger setting range
- crank lift can be fixed and can be adjusted without clearance
- fits to various undergrounds due to the special combination ends (rubber steel ends)

Technische Daten

	Art.-No. 4716 165	Art.-No. 4716 300 1
desired height:	160 cm	300 cm
height set:	95 cm	120 cm

Article No.	Article Description	QTY
4716 165	ALU TRIPOD 165	1
4716 300 1	ELEVATOR TRIPOD PROFI 300	1



Compact tripod

- high quality and very compact crank tripod made from aluminium
- 5/8" thread adapter
- circular level
- tripod legs and crank lift can be repeatedly extended resulting in a larger setting range
- fits to various undergrounds due to the special combination ends (rubber steel ends)

Article No.	Article Description	QTY
4716 300 2	ELEVATOR TRIPOD COMPACT	1

scope of delivery:
transport bag



Monopod

- Length: 4 m
- The length of the monopod can be exactly adjusted
- Consists of four sections for highest flexibility
- Weight: 2.1 kg
- With universal holder for many different materials
- 5/8" thread
- Height-adjustable holder for easy working
- Stable design made of aluminium, easy to operate, delivered in carrying bag

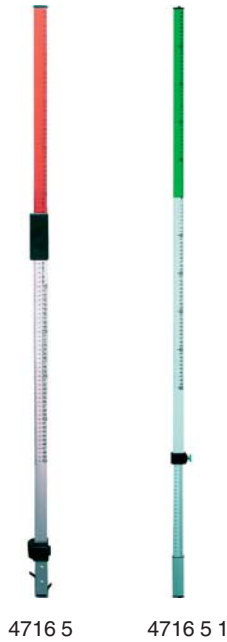
Article No.	Article Description	QTY
4716 400	MONOPOD 400CM	1



Laser Levelling Rod

- Height-adjustable aluminium levelling rod
- Length: 137 - 250 cm

Article No.	Article Description	QTY
4716 5	LASER LEVELLING ROD 250CM	1
4716 5 1	LASER LEVELLING ROD GREEN	1



Telescope levelling staff

- sturdy aluminium profile
- height-adjustable levelling staff
- for levelling devices and rotation lasers
- length: 122 - 500 cm

Article No.	Article Description	QTY
4716 26 5	TELESCOPE LEVELLING STAFF 5M	1



Angle measuring device GAM 220 MF Professional

- Automatic calculation of single and double coping and mitre angles without any other aids
- Quick calculation and transfer of angles thanks to storage function for frequently used angular dimensions
- Includes leg extension for taking measurements in inaccessible locations
- No calibration required

Technical Data

Measuring range:	0 - 220° (angle)
Angular accuracy:	± 0.1°
Calculation function:	yes
Storage function:	yes
Dimensions/weight:	432 x 35 x 61 mm / 1.1 kg



Article No.	Article Description	QTY
5334 5 220	ANGLE MEAS.DEVICE GAM 220 MF	1

Scope of delivery:

- Protective case, leg extension, 4x 1.5 V (AA) batteries

Angle Measuring Device Digital 400/600

- Digital electronic angle measuring device with interior and exterior angle display
- Measuring range from 0° to 220°
- With foldable and telescopic measuring jaw for both sides
- Additional vertical and horizontal level
- Flip-Display illuminated and can be turned to 180°
- Hold-Function enables recording of measuring values on the display
- Accuracy ± 0,1°
- Automatic switch off after 3 minutes
- Power supply by 2 AA batteries
- Accessory: transport bag

Article No.	Article Description	QTY
4717 400	ANGLE MEAS.DEV.DIGITAL MINI400	1

(Blade length in mm)



Inclinometer GIM 60 L

- Integrated point laser for inclination measurement up to 30 m in length
- Strong magnets and two holding straps for the secure mounting of workpieces
- Inclination mechanics for fine adjustment on uneven substrates
- Can be set to any desired value as an alternative to 0°
- Angles can be manually adjusted for easy transmission
- Audio signal leads to the desired angle, even without a view of the display

Delivery scope:

- Protective pouch
- 4 × 1.5 V R6 (AAA) batteries



Technical Data

Length:	60 cm
Measuring range:	0 – 360°
Measurement accuracy (electronics):	± 0,05°
Laser operating range:	30 m
Laser type:	635 nm < 1,0 mW
Laser class:	2
Laser levelling accuracy:	± 0,5 mm/m
Measurement units:	°, %, mm/m
Tripod mounting:	1/4"

Article No..	Article Description	QTY
5334 5 60 1	INCLINOMETER GIM 60 L	1

Angle for Cabinetmaker with Marking Holes

- Chrome-plated and polished steel - corrosion resistant
- Cross section 35 x 1.8 mm

Article No.	Article Description	QTY
4777 700 300	ANG.F.CA.MAK.MARKI.HOLE700X300	1
4777 800 315	ANG.F.CA.MAK.MARKI.HOLE800X320	1
4777 1000 375	ANG.F.CA.MA.MARKI.HOLE1000X360	1

(Blade length mm)



Angle for Cabinetmaker without Marking Holes

- Chrome-plated and polished steel - corrosion protection
- Cross section 35 x 1.8 mm

Article No.	Article Description	QTY
4778 700 305	ANGLE WITHO.MARKI.HOLE 700X300	1
4778 800 325	ANGLE WITHO.MARKI.HOLE 800X320	1
4778 1000 365	ANGLE WITHO.MARKI.HOLE1000X360	1

(Blade length mm)



Alpha angle

- made from rust-free steel
- rotatable indicator
- dimensions: 795 x 430
- cross section: 35 mm

Article No.	Article Description	QTY
4778 795 430	ALPHA ANGLE 795X430	1

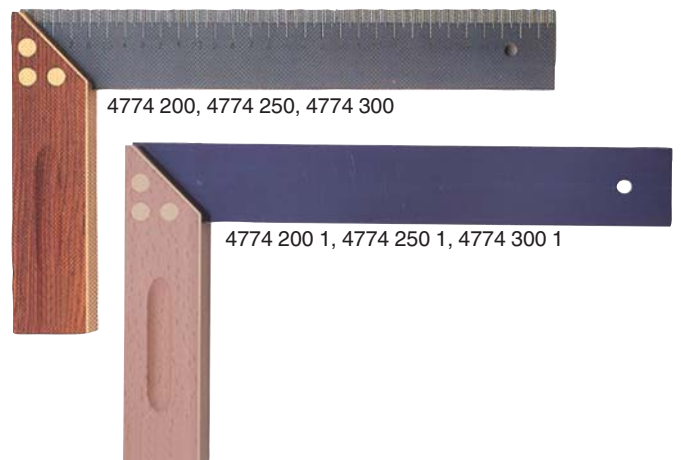


Try Squares with Mitre

- Double riveted strong brass strip on the inside (at precision squares also on the outside) edge of the blades. Easy to handle grip inside the wood.
- Blue elastically hard steel blade (precision square with engraved mm-scale)
- Connection of blade and spring throughout 3 or 4 stable precision
- Try squares with rosewood blades - insured to effect of moisture
- **Art. No. 4774 200 / 4774 250 / 4774 300**
- Precision-version with rosewood blades
- **Art. No. 4774 200 1/ 4774 250 1/ 4774 300 1**
- Standard-version with beech blades

Article No.	Article Description	QTY
4774 200	TRY SQUARES/MITRE ROSEWO.200MM	1
4774 250	TRY SQUARES/MITRE ROSEWO.250MM	1
4774 300	TRY SQUARES/MITRE ROSEWO.300MM	1
4774 200 1	TRY SQUARES/MITRE BEECH 200MM	1
4774 250 1	TRY SQUARES/MITRE BEECH 250MM	1
4774 300 1	TRY SQUARES/MITRE BEECH 300MM	1

(Blade length mm)



Sliding Bevel

- Revolving, U-profile-fitting made of brass
 - Protection against damages which could influence the precision
- Sliding bevel with rosewood blades
 - Inured to effect of moisture
- **Art. No. 4774 250 2 / 4774 300 2**
 - Precision-version with rosewood blades
- **Art. No. 4774 250 3 / 4774 300 2**
 - Standard-version with beech blades

Article No.	Article Description	QTY
4774 250 2	SLIDING BEVEL/PALI. 250MM	1
4774 300 2	SLIDING BEVEL/PALI. 300MM	1
4774 250 3	SLIDING BEVEL/BEECH 250MM	1
4774 300 3	SLIDING BEVEL/BEECH 300MM	1

(Blade length mm)

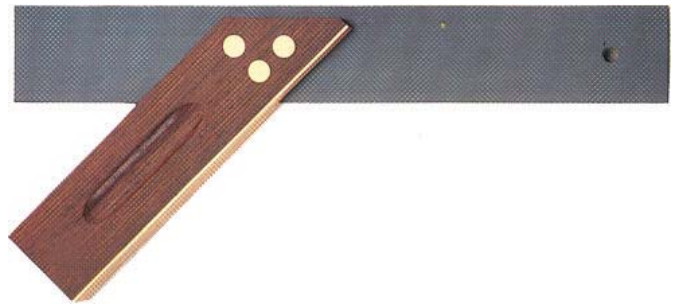


Mitre Gauge

- With rosewood blades - Inured to effect of moisture

Article No.	Article Description	QTY
4774 250 4	MITRE GAUGE ROSEWOOD 250MM	1

(Blade length mm)



Mortise Gauge

- With two individually adjustable marking rods, slender stabbing awls made of steel and inserted, easy to read mm-scales
- Beech wood

Article No.	Article Description	QTY
4774 0 150	MORTISE GAUGE BEECH 0-150MM	1

(Marking area mm)



T-square

- easy to read cm scale
- anti-corrosion anodisation
- sturdy, precise work
- weight: 1000 g
- Length: 1250 mm

Article No.	Article Description	QTY
4778 1250	T-SQUARE 1250MM	1



Magnetic Welding Clamp 25 - 36 kg

- 30°, 45°, 60° and 90° angle
- The 'third hand' that helps to make work easier
- Big centralized grip hole for easy operation
- Rivet hole for easy connection (with screws) of several magnets
- Working temperature up to approx. +120°C

Technical Data

Art. No.	Dimension	Retention force	Weight
4696 21	100 x 114 x 110 mm	25 – 36 kg	760 g

Article No.	Article Description	QTY
4696 21	MAGNETIC WELDING CLAMP 25-36KG	1



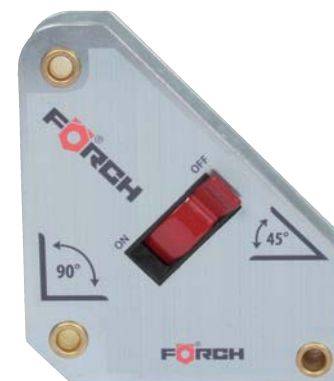
Magnetic Welding Clamp 31-36 kg/54-63 kg

- 45° and 90° angle
- The 'third hand' that helps to make work easier
- Quick and easy holding of two workpieces
- Magnet can be switched on/off due to rocker switch
- Rivet hole for easy connection (with screws) of several magnets
- Working temperature up to approx. +120°C

Technical Data

Art.-No.	Dimension	Retention force	Weight
4696 22	95 x 110 x 100 mm	31 – 36 kg	700 g
4696 23	130 x 150 x 48 mm	54 – 63 kg	1,400 g

Article No.	Article Description	QTY
4696 22	MAGNETIC WELDING CLAMP 31-36KG	1
4696 23	MAGNETIC WELDING CLAMP 54-63KG	1



Bevelled steel square DIN 875/00

- highest degree of accuracy when working with precision
- with two V-shaped measuring edges
- normal steel
- accuracy: DIN 875/00
- anti glare bevelled edge
- Made in Germany



Article No.	Article Description	QTY
4776 2 75 50	HAARWINKEL DIN875/00 75X 50	1
4776 2 150 100	HAARWINKEL DIN875/00 150X100	1

(Side length mm)

Technical Data

art. no.	cross section mm
4776 2 75 50	16 x 4
4766 2 150 100	28 x 6

Try square DIN 875/2

- low tolerances
- suitable for work mainly in mechanical engineering
- Special steel
- Accuracy: DIN 875/2
- Made in Germany



Article No.	Article Description	QTY
4775 1 75 50	ANSCHLAGWINKEL.DIN875/2 75X 50	1
4775 1 100 70	ANSCHLAGWINKEL.DIN875/2 100X 70	1
4775 1 150 100	ANSCHLAGWINKEL.DIN875/2 150X100	1
4775 1 200 130	ANSCHLAGWINKEL.DIN875/2 200X130	1
4775 1 250 165	ANSCHLAGWINKEL.DIN875/2 250X165	1
4775 1 300 175	ANSCHLAGWINKEL.DIN875/2 300X175	1

(Side length mm)

Technical Data

art. no.	cross section mm
4775 1 75 50	15 x 5
4775 1 100 70	20 x 5
4775 1 150 100	25 x 5
4775 1 200 130	30 x 6
4775 1 250 165	35 x 7
4775 1 300 175	35 x 7

Flat angle DIN 875/2

- low tolerances
- suitable for work mainly in mechanical engineering
- Special steel
- Accuracy: DIN 875/2
- Made in Germany



Article No.	Article Description	QTY
4776 1 75 50	FLACHWINKEL DIN875/2 75X 50	1
4776 1 100 70	FLACHWINKEL DIN875/2 100X 70	1
4776 1 150 100	FLACHWINKEL DIN875/2 150X100	1
4776 1 200 130	FLACHWINKEL DIN875/2 200X130	1
4776 1 250 165	FLACHWINKEL DIN875/2 250X165	1
4776 1 300 175	FLACHWINKEL DIN875/2 300X175	1

(Side length mm)

Technical Data

art. no.	cross section mm
4776 1 75 50	15 x 5
4776 1 100 70	20 x 5
4776 1 150 100	25 x 5
4776 1 200 130	30 x 6
4776 1 250 165	30 x 7
4776 1 300 175	35 x 7

Angle for Locksmith with Stop

- Chrome-plated and polished steel
- Corrosion resistant



Article No.	Article Description	QTY
4775 100 70	ANGLE F.LOCKSM.WITH STOP100X70	1
4775 150 100	ANGLE F.LOCKSM.W.STOP 150X100	1
4775 200 130	ANGLE F.LOCKSM.W.STOP 200X130	1
4775 250 160	ANGLE F.LOCKSM.W.STOP 250X160	1
4775 300 175	ANGLE F.LOCKSM.W.STOP 300X175	1
4775 500 280	ANGLE F.LOCKSM.W.STOP 500X280	1
4775 750 375	ANGLE F.LOCKSM.W.STOP 750X375	1
4775 1000 500	ANGLE F.LOCKSM.W.STOP1000X500	1

(Blade length mm)

Technical Data

Art. No.	Cross section mm
4775 100 70	20 x 5
4775 150 100	20 x 5
4775 200 130	20 x 5
4775 250 160	25 x 5
4775 300 175	25 x 5
4775 500 280	25 x 5
4775 750 375	30 x 5
4775 1000 500	30 x 5

Angle for Locksmith without Stop

- Chrome-plated and polished steel
- Corrosion resistant



Article No.	Article Description	QTY
4776 100 70	ANG.F.LOCKSM.WITHO.STOP 100X70	1
4776 150 100	ANG.F.LOCKSM.WITHO.STOP150X100	1
4776 200 130	ANG.F.LOCKSM.WITHO.STOP200X130	1
4776 250 160	ANG.F.LOCKSM.WITHO.STOP250X160	1
4776 300 180	ANG.F.LOCKSM.WITHO.STOP300X180	1
4776 500 280	ANG.F.LOCKSM.WITHO.STOP500X280	1
4776 700 380	ANG.F.LOCKSM.WITHO.STOP700X380	1
4776 1000 500	ANG.F.LOCKS.WITHO.STOP1000X500	1

(Blade length mm)

Technical Data

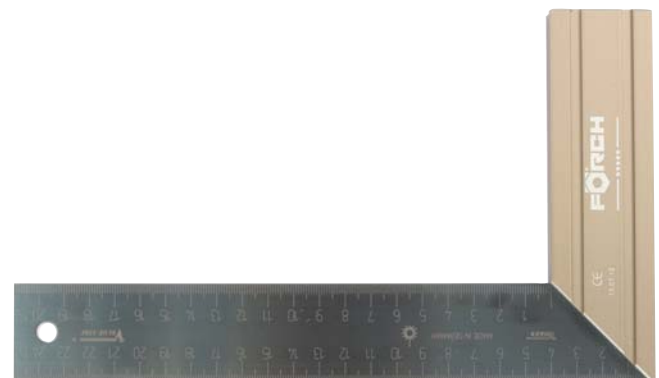
Art. No.	Cross section mm
4776 100 70	20 x 5
4776 150 100	20 x 5
4776 200 130	20 x 5
4776 250 160	25 x 5
4776 300 180	25 x 5
4776 500 280	25 x 5
4776 700 380	30 x 5
4776 1000 500	30 x 5

Universal angle with aluminium handle **FÖRCH** *****

- with 45° mitre cut
- scale lasered on front and reverse side
- steel blade made from toughened, blued spring steel
- anodised aluminium handle with profile grooves

Article No.	Article Description	QTY
4776 5 200	UNI WINKEL/GEH.ALU 200MM 5*	1
4776 5 250	UNI WINKEL/GEH.ALU 250MM 5*	1
4776 5 300	UNI WINKEL/GEH.ALU 300MM 5*	1

(spring length mm)



Bevel square with aluminium handle **FÖRCH*******

- anodised aluminium handle with profile grooves
- angle measurement on the aluminium handle
- toughened steel blade
- with galvanised wing nuts to determine
- scale: 45°, 60°, 75°, 90°, 120°

Article No.	Article Description	QTY
4775 5 300	STELLWINKEL 300MM 5*	1

(spring length mm)



Flat scratch gauge 300 mm

- chrome-plated
- toughened marking edge
- millimetre scale incorporated
- measuring length: 300 mm
- gauge width: 40 mm
- Made in Germany

Article No.	Article Description	QTY
4715 1 300	FLAT SCRATCH GAUGE 300 MM	1



Scriber

- With ripped steel grip
- Tips made of hardened and burnished steel

Art.-No. 4706 2150:

- With straight and curved steel tip
- Length: 240 mm

Art.-No. 4706 2150:

- With straight steel tip
- Length: 175 mm

Article No.	Article Description	QTY
4706 2150	SCRIBER	1
4706 2150 1	SCRIBER STRAIGHT	1



4706 2150



4706 2150 1

Scriber with Hard Metal Tip

- Special steel
- Length: 145 mm

Article No.	Article Description	QTY
4706 1	SCRIBER WITH HARD METAL TIP	1



Mortise metal

- Metal version, with stop roller
- In plastic case

Article No.	Article Description	QTY
4774 1 200	SCRATCH GAUGE METAL 0-200MM	1
4774 1 201	REPLACEMENT TOP - HARD METAL	1

(marking area mm)



Indicator **FÖRCH** ★★★★★

- Simple zero position due to turnable outer ring
- Adjustable tolerance marks
- With flat cover and eyelet cover
- Impact protected
- Metal housing, matt chrome
- Insert: $\varnothing$ 8 mm



Technical Data

Measuring range:	0 - 10 mm
Resolution:	0.01 mm
Pointer rotation:	1.0 mm

Article No.	Article Description	QTY
4715 5 10 4	PRECISE INDICATOR 0-10MM 5*	1

Digital dial indicator **FÖRCH** ★★★★★

- aluminium housing with stable plastic cover
- LCD display with digit height of 10 mm
- with data output
- measuring pins and clamping shaft rust-free, toughened and polished
- exchangeable measuring pin M2.5
- on / off button
- switch from absolute to relative display
- test pre-setting using pre-set function
- zero position in any position
- max and min value display
- can be measured in either mm or inches
- tolerance mode: by establishing limits, deviations are displayed using an optimum signal
- with flat cover and eyelet cover
- insert: $\varnothing$ 8 mm
- in plastic box
- suitable button cells: Art. no. 3882 27 (in delivery scope)
- suitable data cable: Art. no. 4715 5 012 41



Technical Data

test range:	0 - 12.7 mm / 0 - 0.5 inch
increase:	0,01 mm / 0,0005 inch
gauging pressure:	< 1.50 N

Article No.	Article Description	QTY
4715 5 012 4	FLAT SCRATCH GAUGE 0-12.7MM 5*	1
4715 5 012 41	DATA CABLE F. FL. SCRATCH GAUGE	1
3882 27	COIN CELL CR 2032 3V	e 5

Magnetic gauge tripod **FÖRCH** ★★★★★

- high-gloss chrome-plated rods with fine adjustment
- painted magnetic foot with on / off twist switch
- polished reverse side as bearing surface
- prismatic sole
- locating hole for dial indicators $\varnothing$ 4 mm and $\varnothing$ 8 mm



Technical Data

total height:	280 mm
rods $\varnothing$ x L:	16 x 220 mm
reach:	200 mm
thread:	M10
magnet base L x B x H:	65 x 50 x 55 mm
magnetic power:	600 Nm

Article No.	Article Description	QTY
4715 5 280	MAGNETIC GAUGE TRIPOD 280MM 5*	1

Digital vernier calliper **FÖRCH*******

- Robust vernier calliper in stainless steel, reinforced model
- Metal housing and metal push buttons
- Zero settings in each position
- LCD display with a digit height of 10 mm
- Detachable thumbwheel
- Equipped with a locking screw
- On / off button
- Depth gauge in flat design
- Thread table on reverse
- Measurement in mm or inches
- In a plastic box
- Replacement battery enclosed / round cell 3V CR2032
- With data output

Technical Data

Art.-No.:	4715 5 150 2	4715 5 300 2
Measuring range:	0 – 150 mm / 0 – 6"	0 – 300 mm / 0 – 12"
Resolution:	0,01 mm / 0,0005"	0,01 mm / 0,0005"
Measuring precision:	± 0,02 mm	± 0,03 mm
Nib length:	40 mm	60 mm
Working temperature:	+5 up to +40°C	+5 °C up to +40 °C



Article No.	Article Description	QTY
4715 5 150 2	DIG.VERNIER CALIPER 150MM 5*	1
4715 5 300 2	DIG.VERNIER CALIPER 300MM 5*	1
3882 27	COIN CELL CR 2032 3V	e 5

Caliper - Digital

- In plastic case
- With replacement battery

Application:

- Measuring: The measuring jaw position can be adjusted due to the turnable sleighing wheel
- In case of closed measuring jaws the digital zero setting can be achieved by pressing 0
- It can be measured in mm or inch

Technical Data

Measuring range:	0 - 150 mm
Resolution:	0.01 mm
Measuring accuracy:	+/- 0.03 mm
Working temperature:	0 - 40° C



Article No.	Article Description	QTY
4715 150	DIGITAL-CALIPER 150MM	1
3882 22	COIN CELL V357/SR44W 1.55V	e 10

Vernier calliper clock 150mm **FÖRCH*******

Technical Data

test range:	0 - 150 mm
increase:	0.01 mm
pointer rotation:	1 mm
spout length:	40 mm



Article No.	Article Description	QTY
4715 5 150 3	VERN. CALLIP. CLOCK 150MM 5*	1

Vernier calliper 150mm **FÖRCH*******

- rust-protected, toughened design
- reading parts matt chrome-plated
- screwed nonius valve
- depth gauge in flat design
- reverse side with thread table
- scale and nonius in mm and inches
- in plastic case

Art. No. 4715 5 150

- with point clamp

Art. No. 4715 5 150 1

- with locking screw

Technical Data

test range:	0 - 150 mm / 0 - 6 inch
increase:	0.05 mm / 1/128 inch
spout length:	40 mm

Article No.	Article Description	QTY
4715 5 150	VERNIER CALLIP. CLAMP 150MM 5*	1
4715 5 150 1	VERNIER CALLIP. SCREW 150MM 5*	1



4715 5 150



4715 5 150 1

Caliper 150 mm

- Made of rust-free steel
- Flexible depth gauge rod
- With thread-table at the back
- In plastic case

Technical Data

Measuring range:	150 mm / 6"
Masuring accuracy (vernier):	0.05 mm/1/128 inch
Length of jaw:	40 mm

Article No.	Article Description	QTY
4715 160	CALIPER 150MM	1



Caliper 300 mm

- Made of rust-free steel
- Flexible depth gauge rod
- In plastic case

Technical Data

Measuring range:	300 mm
Measuring accuracy (vernier):	0.05 mm
Length of jaw:	55 mm

Article No.	Article Description	QTY
4715 300 1	WORKSHOP CALIPER 300MM	1



Measuring tool set

- 6-part
- Measuring tools
- In VAROsoft tool deposit Art. No. 9026 710

Contents

Art. No.	Article Description	Quantity
3882 22	COIN CELL V357/SR44W 1.55V	1
4706 2150	SCRIBER	1
4715 025	MICROMETER 0-25MM	1
4715 150	DIGITAL-CALIPER 150MM	1
4717 5 6	POCKET TAPE PROFESSIONAL 5 M	1
4775 200 130	ANGLE F.LOCKSM.W.STOP 200X130	1



Article No.	Article Description	QTY
4715V 90	VS-MEASURING TOOL SET 6-PART	1

Vernier calliper for digital brake discs **FÖRCH**★★★★★

- LCD display with digit height of 10 mm
- test prod made of hard metal
- with locking screw
- zero point can be set in any position
- knife ranges mm / inch
- on / off button
- replacement battery included: button cell 1.5V LR44
- in plastic box

Technical Data

test range:	0 - 60 mm / 0 - 2.4 inch
increase:	0.01 mm / 0,0005 inch
accuracy:	+/-0.04 mm



Article No.	Article Description	QTY
4715 5 060	VERN.CALLIP. F.DIGI.BRAKE D.5*	1
3882 32	COIN CELL LR44/AG13 1,5V	i 10

Caliper for brake disks

- For measuring the thickness of mounted brake disks
- With fine adjustment and holding screw
- Made of rust-free steel, hardened, scale and matt-chromed vernier

Technical Data

Measuring range:	0 - 60 mm
Measuring accuracy (vernier):	0.1 mm
Length of jaw:	85 mm

Article No.	Article Description	QTY
4715 060	CALIPER FOR BRAKE DISKS	1



Caliper for brake drum

- For measuring the inside diameter of vehicle brake drums
- Internal dimension is immediately readable
- With fine adjustment and holding screw
- Made of rust-free steel, hardened, scale and matt-chromed vernier

Technical Data

Internal measuring range:	0 - 300 mm
External measuring range:	40 - 340 mm
Measuring accuracy (vernier):	0.02 mm
Length of jaw:	95 mm

Article No.	Article Description	QTY
4715 070	CALIPER FOR BRAKE DRUM VEHICLE	1



Digital outside millimetre **FÖRCH**★★★★

- LCD display with clear reading
- zero position in any position
- hard metal test surfaces
- can be measured in either mm or inches
- switch from absolute to relative display
- on / off button
- painted bracket with insulating shell
- clamping lever for quick and safe fixing
- consistent measuring force due to rubberised friction ratchet
- drum Ø: 22 mm
- protection class: IP40
- in plastic box
- suitable button cell: Art. no. 3882 27 (in delivery scope)

Technical Data

test area:

art.-no.. 4715 5 025 0 - 25 mm / 0 -1 inch

art. no.. 4715 5 25 50 25 - 50 mm / 1-2 inch

increase: 0,001 mm / 0,00005 inch

accuracy: +/- 0.004 mm

operating temperature: 0 to 40°C



4715 5 025



4715 5 25 50

Article No.	Article Description	QTY
4715 5 025	DIGI.OUTSIDE MILLIM.0-25MM 5*	1
4715 5 25 50	DIGI.OUTSIDE MILLIM.0-50MM 5*	1
3882 27	COIN CELL CR 2032 3V	e 5

Outside millimetre

- DIN 863, with hard metal measuring surface, toughened spindle and polished with Ø 6.5 mm, pitch 0.5 mm
- matt chrome-plated reading parts, chrome-plated bracket with insulation protection

Technical Data

test range: 0 - 25 mm

accuracy (nonius): 0.01 mm

Article No.	Article Description	QTY
4715 025	MICROMETER 0-25MM	1



Depth Gauge - Digital

- In accordance with DIN 862
- In plastic case
- Stainless steel, hardened
- Big LCD display, for clear reading
- Zero setting position at every position possible
- Data output RS232C-interface
- Replacement battery enclosed / coin cell 1.5 LR44

Application:

- For measuring drilling depths, punctures etc.

Technical Data

Bridge length:	100 mm
Resolution:	0.01 mm
Measuring range:	0 - 200 mm
Measuring accuracy:	+/- 0.03 mm
Working temperature:	5 - 40°C

Article No.	Article Description	QTY
4715 250	DEPTH GAUGE DIGITAL	1
3882 22	COIN CELL V357/SR44W 1.55V	e 10



Depth Gauge

- In accordance with DIN 862
- In faux leather bag
- Stainless steel, hardened

Application:

- For measuring drilling depths, punctures etc.

Technical Data

Bridge length:	100 mm
Measuring range:	0 - 200 mm
Measuring accuracy:	+/- 0.05 mm

Article No.	Article Description	QTY
4715 260	DEPTH GAUGE	1



Yardstick **FÖRCH*******

- chrome-plated design
- with adjustable gauge
- with locking screw
- in plastic case

Technical Data

gauge length:	300 mm
arch Ø:	150 mm
angle adjustment:	10° - 170°

Article No.	Article Description	QTY
4715 5 150 300	YARDSTICK 150X300MM 5*	1



Indicator

- In faux leather bag
- Stainless steel, hardened
- With knurled nut for rail fixing
- Measures degrees of angles from 0° to 180°

Application:

- For angle measurement or measuring angles

Technical Data

Jaw length:	200 mm
Degree arc diameter:	150 mm
Scale:	0° - 180°

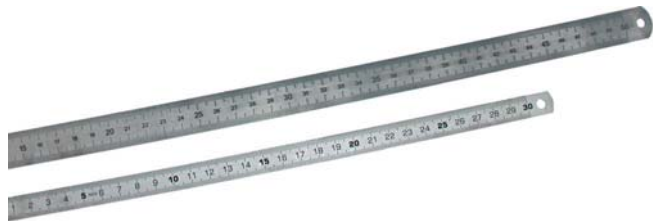
Article No.	Article Description	QTY
4715 100	INDICATOR 150X200	1



Steel Ruler

- Made of hardened spring tape steel, rust-free
- Matt-chrome-plated mm-pitch (0.5 mm)

Article No.	Article Description	QTY
4715 300	STEEL RULER 300MM	1
4715 500	STEEL RULER 500MM	1



Straightedge **FÖRCH*******

- For measuring the evenness of surfaces (cylinder heads) in the light gap processes
- Length: 500 mm
- Material: stainless steel
- Delivery in faux leather bag

Article No.	Article Description	QTY
4715 5 500	STRAIGHTEDGE ST.STEEL 500MM 5*	1



Thread Gauge

- For metric and Withworth threads
- Metric thread lead: 0.25 - 6.0 mm
- Withworth thread lead: 62 - 4 run"

Article No.	Article Description	QTY
4965 20	THREAD GAUGE METRIC/WITHW.	1



Needle-Point Compass

- In accordance with DIN 6486
- Blank steel
- With edged legs and riveted hinge

Article No.	Article Description	QTY
4706 150	NEEDLE-POINT COM.150MM DIN6486	1
4706 300	NEEDLE-POINT COM.300MM DIN6486	1



Bow Divider

- In accordance with DIN 6486
- Plain steel
- With edged legs and riveted hinge
- With knurled nut for fixing legs

Article No.	Article Description	QTY
4706 151	BOW DIVIDER 150MM DIN 6486	1
4706 301	BOW DIVIDER 300MM DIN 6486	1



Spring Divider

- In accordance with DIN 6486
- Plain steel
- With edged legs
- Quick-clamping nut with through-going spindle
- With hard metal tips

Article No.	Article Description	QTY
4706 175	SPRING DIVIDER 175MM DIN 6487	1
4706 175 1	PAIR OF HM TIPS F.SPRING DIVI.	1



Pencil Divider

- In accordance with DIN 6486
- Plain steel
- With edged legs and riveted hinge
- With knurled nut for fixing legs
- With pencil holder

Article No.	Article Description	QTY
4706 152	PENCIL DIVIDER 150MM DIN 6484	1
4706 302	PENCIL DIVIDER 300MM DIN 6484	1
4715 175	PENCIL 17.5CM	e 10



Permanent Marker Retract 11

- Permanent ink
- Low-odour
- Ideal for marking works for one-hand operation
- With round point ~ 1.5 - 3 mm

Article No.	Article Description	QTY
4713 10 2	PERM.MARKER RETRACT11 RED1.5-3	e 10
4713 10 3	PER.MARKER RETRACT11 BLUE1.5-3	e 10
4713 10 4	PER.MARKER RETRACT11GREEN1.5-3	e 10
4713 10 5	PER.MARKER RETRACT11BLACK1.5-3	e 10



Permanent Marker

- Permanent ink
- Low-odour
- With round top ~ 1 mm

Article No.	Article Description	QTY
4713 11 2	PERMANENT MARKER RED 1MM	e 10
4713 11 3	PERMANENT MARKER BLUE 1MM	e 10
4713 11 4	PERMANENT MARKER GREEN 1MM	e 10
4713 11 5	PERMANENT MARKER BLACK 1MM	e 10



Industry Paint Marker

- Highly permanent
- Covers like paint
- Ideally suitable for marking oily and dusty surfaces
- With round top ~ 2 - 4 mm

Article No.	Article Description	QTY
4713 12 1	INDUSTRY PAINT MARKER YEL2-4MM	e 10
4713 12 2	INDUSTRY PAINT MARKER RED2-4MM	e 10
4713 12 5	INDUSTRY PAINT MARK. BLACK2-4MM	e 10
4713 12 6	INDUSTRY PAINT MARK. WHITE2-4MM	e 10



Paint Marker

- Permanent ink
- Low-odour
- Covers like paint
- For almost all materials e.g. glass, plastic, wood, metal
- Especially suitable for dark and transparent materials
- With round top ~ 1 - 2 mm

Article No.	Article Description	QTY
4713 13 2	PAINT MARKER RED 1-2MM	e 10
4713 13 5	PAINT MARKER BLACK 1-2MM	e 10
4713 13 6	PAINT MARKER WHITE 1-2MM	e 10



Cable marker, black

- permanent
- low odour
- light-resistant and quick-drying
- very thin nib to mark and identify electric cables, cable ties and cable labels, electronic and precision components
- with 0.75 mm tip

Article No.	Article Description	QTY
4713 16 1	CABLE MARKER BLACK 0.75MM	e 10



Window Marker

- Low-odour and water-based
- Ideal for marking glass and other closed substrates
- Covers well, also on dark and transparent surfaces
- Can be washed up from almost all closed surfaces
- With round top ~ 2 - 3 mm

Article No.	Article Description	QTY
4713 14 1	WINDOW MARKER NEON YELLOW 2-3MM	e 10
4713 14 6	WINDOW MARKER WHITE 2-3MM	e 10



4713 14 1



4713 14 6

Carpenter Pen

- Permanent special ink
- Very long and narrow point
- Ideal for marking areas which are difficult of access e.g. for marking drill holes
- With point ~ 0.7 - 1 mm

Article No.	Article Description	QTY
4713 15 5	CARPENTER PEN BLACK 0.7.-1MM	e 10



Permanent marker **VAROIBOXX**

- 50 pieces

Contents:

Article No.	Article Description	Quantity
4713 10 2	PERM.MARKER RETRACT11 RED1.5-3	5
4713 10 3	PER.MARKER RETRACT11 BLUE1.5-3	5
4713 10 4	PER.MARKER RETRACT11GREEN1.5-3	5
4713 10 5	PER.MARKER RETRACT11BLACK1.5-3	10
4713 11 2	PERMANENT MARKER RED 1MM	5
4713 11 3	PERMANENT MARKER BLUE 1MM	5
4713 11 4	PERMANENT MARKER GREEN 1MM	5
4713 11 5	PERMANENT MARKER BLACK 1MM	10
9008 1	VAROIBOXX EMPTY	1
9008 1 4	VAROIBOXX THERMOF.INS.4COMP.	1

Article No.	Article Description	QTY
9007 4713 1	VAROIBOXX PERMANENT MARKER	1



Marker **VAROBOXX** Mini

- 17 parts
- in high-grade VAROBOXX Mini
- universal marker set for different materials

Contents :

Article No.	Article Description	Quantity
4713 10 2	PERM.MARKER RETRACT11 RED1.5-3	2
4713 10 3	PER.MARKER RETRACT11 BLUE1.5-3	1
4713 10 4	PER.MARKER RETRACT11GREEN1.5-3	1
4713 10 5	PER.MARKER RETRACT11BLACK1.5-3	2
4713 11 2	PERMANENT MARKER RED 1MM	2
4713 11 3	PERMANENT MARKER BLUE 1MM	1
4713 11 4	PERMANENT MARKER GREEN 1MM	1
4713 11 5	PERMANENT MARKER BLACK 1MM	2
4713 12 1	INDUSTRY PAINT MARKER YEL2-4MM	1
4713 12 2	INDUSTRY PAINT MARKER RED2-4MM	1
4713 12 5	INDUSTRY PAINT MARK.BLACK2-4MM	1
4713 12 6	INDUSTRY PAINT MARK.WHITE2-4MM	2
9002 1	VAROBOXX MINI EMPTY	1

Article No.	Article Description	QTY
9002 4713	VAROBOX MINI MARKER	1



Marker for Deep Holes, Black

- Special quiver with clip for one-hand operation
- Fail-safe, suitable for all pocket types
- Marks and writes on all surfaces such as plastic, metal, stone, wood, glass etc.
- Water-proof
- Fast drying ink, alcohol based
- High ink-level
- Adjustable tip of the wick, thus increased service life
- Max. marking depth 29 mm
- Tip of the wick ~ 0.5 - 1.4 mm

Article No.	Article Description	QTY
4713 15 1	MARK.F.DEEP HOL.BLACK0.5-1.4MM	1



Deep hole marker – universal

- Robust design – tip, housing and clips made of metal
- Integrated sharpener in push button
- Graphite refills for marking on rough and smooth surfaces
- Coloured all-purpose refills for smooth and dark materials (water-resistant)

Set delivery includes:

- 1 x deep hole marker – universal
- 6 x graphite refills

Article No.	Article Description	QTY
4713 18 1	DEEP HOLE MARKER UNIVERS.SET	e 120
4713 18 2	PCK(6)REPL.REFILL.YELLOW	e 50
4713 18 3	PCK(6)REPL.REFILL.RED	e 50
4713 18 4	PCK(6)REPL.REFILL.GRAP	e 50
4713 18 9	PCK(6)REPL.REFILL.UNIVERSAL	e 100



4713 18 9



4713 18 2



4713 18 3



4713 18 4



Pencil

- Graphite mine 2H
- High-quality lime wood
- For marking and labelling wood (hardwood)

Article No.	Article Description	QTY
4715 175	PENCIL 17.5CM	e 10



Carpenter's Pencil

- Graphite mine HB
- High-quality lime wood
- For marking and labelling wood, cartons and paper

Article No.	Article Description	QTY
4715 200	CARPENTER'S PENCIL	e 12



Stone carvers' pencil

- Graphite mine 6H
- High-quality lime wood
- For marking and labelling rough and hard surfaces, e.g. bricks, stone, concrete etc.

Article No.	Article Description	QTY
4715 240	STONE CARVERS' PENCIL 240MM	e 12



Forester and Signed Chalk

- Ideal for the application to wood (wet and dry), brick, concrete and board,
- Even applicable to iron, sheet, hot surfaces, rubber, leather or textiles
- Form: hexagonal 12 mm
- Length: 110 mm long

Article No.	Article Description	QTY
4713 1 1	FORESTER/SIGNED CHALK YELLOW	12
4713 1 2	FORESTER/SIGNED CHALK RED	12
4713 1 3	FORESTER/SIGNED CHALK BLUE	12
4713 1 4	FORESTER/SIGNED CHALK GREEN	12
4713 1 5	FORESTER/SIGNED CHALK BLACK	12
4713 1 6	FORESTER/SIGNED CHALK WHITE	12



Blackboard chalk

- suitable for many different surfaces
- can be dry or wet wiped
- high breaking resistance
- colour: white
- shape: round Ø 10 mm
- length: 80 mm

Article No.	Article Description	QTY
4713 5	P(10) BLACKBOARD CHALK WHITE	1



Plast-o-Glas-Chalk

- For marking of almost every material, especially tyres, car paint, tiles, bricks, wet or dry wood, glass, rubber, ceramics, concrete, metal, plastics
- Form: hexagonal 12mm
- Length: 120 mm

Article No.	Article Description	QTY
4713 2 1	PLAST-O-GLAS CHALK YELLOW	12
4713 2 2	PLAST-O-GLAS CHALK RED	12
4713 2 3	PLAST-O-GLAS CHALK BLUE	12
4713 2 6	PLAST-O-GLAS CHALK WHITE	12



Universal-Signed Chalk

- For marking dry or wet wood, paper, carton, metal, stone, asphalt, tiles, plastic
- Weather-resistant, lighthast
- Form: hexagonal 12mm
- Length: 120 mm

Article No.	Article Description	QTY
4713 3 1	UNIVERSAL-SIGNED CHALK YELLOW	12
4713 3 2	UNIVERSAL-SIGNED CHALK RED	12
4713 3 3	UNIVERSAL-SIGNED CHALK BLUE	12



Soapstone/Welder Chalk

- Ideal for the use of all metals, boards, leather, bricks, concrete and textiles
- Temperature resistant up to approx. 2000°C
- Form: square 10 mm
- Length: 100 mm

Article No.	Article Description	QTY
4713 4 6	SOAPSTONE/WELDER CHALK WHITE	10



Chalk Pen-Holder

- Enables a clean and exact working with chalks

Article No.	Article Description	QTY
4713 95	CHALK PEN-HOLDER 9,5MM	1
4713 120	CHALK PEN-HOLDER 12,0MM	1



Sharpener with plane

- Dimensions (LxWxH): 49 x 30 x 38 mm

Article No.	Article Description	QTY
4715 210	SHARPENER WITH PLANE	1



Tyre Marker

- For marking tyres concerning vehicle details, tyre allocation, tyre damages etc.
- Waterproof rubber marker, also usable for many application fields
- Suitable for dry and wet tyres, metals and alloys, plastics, acrylic glass, wood, cork, glass, porcelain, ceramics, earthenware, terra cotta, concrete, masonry, brick, stone cartons as well as further smooth and rough surfaces

Art. No. 3595 10 and 3595 11:

- Ø x L: 10 x 90 mm

Art. No. 3595 30 and 3595 31:

- Ø x L: 18 x 90 mm

Article No.	Article Description	QTY
3595 1	UNIV.TYRE MARKER HOLDER 10MM	1 z
3595 10	UNIV.TYRE MARKER WHITE 10MM	12
3595 11	UNIV.TYRE MARKER YELLOW 10MM	12
3595 30	UNIV.TYRE MARKER WHITE 18MM	12
3595 31	UNIV.TYRE MARKER YELLOW 18MM	12



3595 1



3595 10



3595 11



3595 30



3595 31

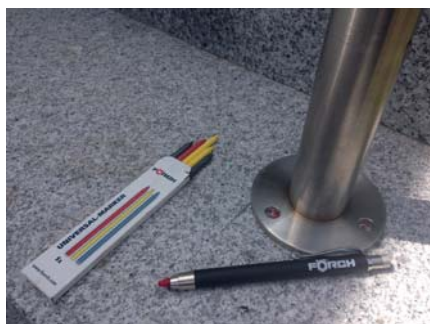
Universal marker set

- very stable design, completely made from anodised metal, with practical clip
- all-purpose lead to mark almost every material, whether dry or wet: car paint tiles, brick, wet or dry wood, glass, rubber, tyres, ceramic, concrete, metal, plastic to name a few
- graphite lead to mark wood, paper and cardboard
- with sharpener in the cap for the graphite lead

scope of delivery:

- 2x universal marker
- 5x graphite leads
- 5x yellow all purpose leads
- 5x red all purpose leads

Article No.	Article Description	QTY
4713 17 1	UNIVERSAL MARKER SET	1 d
4713 17 2	P(5)PENCIL LEAD F.UNI.MARK.RED	1
4713 17 3	P(5)PENCIL LEAD F.UNI.MARK.YEL	1
4713 17 4	P(5)PENCIL LEAD F.UNI.MARK.GRA	1
4713 17 5	REPLACEMENT UNIVERS.MARKER	1
4713 17 6	P(5)PENCIL LEAD UNI-M.SOAPSTON	1



Chalk line marker 30 m FÖRCH*****

- Chalk line marker 30 m
- Case made of die-cast magnesium
- Flat sides for optimal support
- Crank and spindle made of die-cast zinc
- Integral push system – crank does not rotate when spindle is pushed in and chalk line is pulled out
- Hardened hook with two curved prongs
- Hook can be attached to housing to ensure safe transport
- Stainless steel belt clip

Article No.	Article Description	QTY
4713 6 30 1	CHALK LINE MARKER 30M 5*	1



Chalk line marker 5:1 30 m FÖRCH*****

- Chalk line marker 30 m
- Rapid retraction with 5:1 gear ratio
- Case made of die-cast magnesium
- Flat sides for optimal support
- Crank and spindle made of die-cast zinc
- Integral push system – crank does not rotate when spindle is pushed in and chalk line is pulled out
- Hardened hook with two curved prongs
- Hook can be attached to housing to ensure safe transport
- Large chalk capacity
- Stainless steel belt clip

Article No.	Article Description	QTY
4713 6 30 5	CHALK LINE MARKER 30M 5:1 5*	1



Chalk line marker PP 30 m

- Chalk line marker 30 m
- Case and crank made of polypropylene
- Hardened hook with two curved prongs

Article No.	Article Description	QTY
4713 6 30	CHALK LINE MARKER PP 30M	1



Spare reel for chalk line markers 30m

- Spare reel for line markers 30m
- Suitable for Art.-No. 4713 6 30, Art.-No. 4713 6 30 1 and Art.-No. 4713 6 30 5



Article No	Article Description	QTY
4713 6 30 9	SPARE REEL 30M	1

Duo chalk line marker 30 metres

- double chalk line marker for roofers and carpenters
- retractable aluminium geared easy rewind
- string length 30 m
- comfortable handle on both sides



4713 6 3



4713 6 4

Article No.	Article Description	QTY
4713 6 3	DUO CHALK LINE MARKER 30M	1
4713 6 4	REPL.STRING F.DUO CHA.LINE MAR	1

Line marker chalk 250 g/ 1000g

- In flexible plastic bottles
- Good adhesion
- Poor water-solubility
- Quantity per pack: 250 g or 1,000g



4713 6 1 1000



4713 6 1 250



4713 6 2 1000



4713 6 2 250



4713 6 3 1000



4713 6 3 250

Article No.	Article Description	QTY
4713 6 1 1000	LINE MARKER CHALK BLUE 1000G	1
4713 6 1 250	LINE MARKER CHALK BLUE 250 G	1
4713 6 2 1000	LINE MARKER CHALK RED 1000G	1
4713 6 2 250	LINE MARKER CHALK RED 250G	1
4713 6 3 1000	LINE MARKER CHALK BLACK 1000G	1
4713 6 3 250	LINE MARKER CHALK BLACK 250G	1

Plumb bob

- Made of steel, silver painted
- For use with a mason's lacing cord e.g. as in 5422 10 50

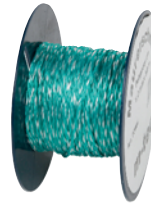
Article No.	Article Description	QTY
4715 400	SENKLOT-BIRNENFORM 400G	1



Masonry Reel 50 m

- Made of polypropylene
- White tracer

Article No.	Article Description	QTY
5422 10 50	REEL(50M)M-REEL GREEN 1.0MM	1
5422 17 50	REEL(50M)M-REEL RED/WHITE 1,7	1
5422 17 50 1	REEL(50M)M-REEL GREEN/WHITE1,7	1
5422 20 50	REEL(50M)M-REEL RED/WHITE 2,0	1
5422 20 50 1	REEL(50M)M-REEL GREEN/WHITE2,0	1
5422 20 50 2	REEL(50M)M-REEL RED 2.0MM	1
5422 20 50 3	REEL(50M)M-REEL WHITE 2.0MM	1



5422 10 50

5422 17 50
5422 20 505422 17 50 1
5422 20 50 1

5422 20 50 2



5422 20 50 3

Masonry Reel 100 m

- Made of Polypropylene

Article No.	Article Description	QTY
5422 20 100	REEL(100M)M-REEL RED 2.0MM	1
5422 20 100 1	REEL(100M)M-REEL WHITE 2.0MM	1
5422 20 100 2	REEL(100M)M-REEL YELLOW 2.0MM	1



5422 20 100



5422 20 100 1

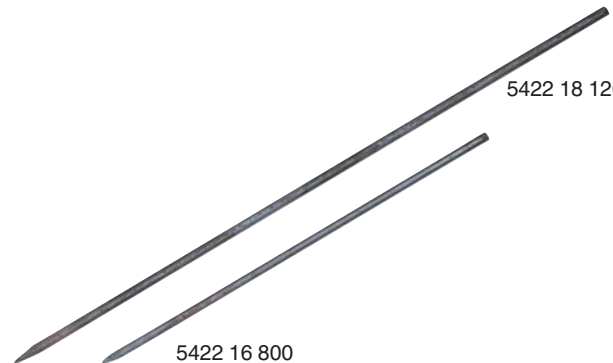


5422 20 100 2

Road form pin

- Made of round steel, uncoated, forged tip

Article No.	Article Description	QTY
5422 16 800	ROAD FORM PIN 16X 800MM	10
5422 18 1200	ROAD FORM PIN 18X1200MM	10



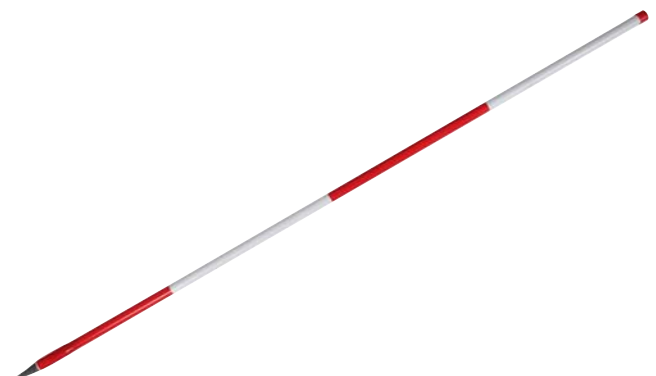
5422 16 800

5422 18 1200

Ranging rod

- For marking out straight lines
- Made of wood
- PVC-coated surface, painted red/white
- With steel tip and plastic cap

Article No.	Article Description	QTY
4717 1 200	RANGING ROD 2M	12



Valve-Adjust Gauge

- With plastic handles
- 90° bendable
- Blade thickness is fused in plastic handles, anytime identifiable
- Colour-sophisticated

Article No.	Article Description	QTY
4924 005	FEELER GAUGE W.PLAST.HAND.0,05	1
4924 008	FEELER GAUGE W.PLAST.HAND.0,08	1
4924 010	FEELER GAUGE W.PLAST.HAND.0,10	1
4924 015	FEELER GAUGE W.PLAST.HAND.0,15	1
4924 020	FEELER GAUGE W.PLAST.HAND.0,20	1
4924 025	FEELER GAUGE W.PLAST.HAND.0,25	1
4924 030	FEELER GAUGE W.PLAST.HAND.0,30	1
4924 035	FEELER GAUGE W.PLAST.HAND.0,35	1
4924 040	FEELER GAUGE W.PLAST.HAND.0,40	1
4924 045	FEELER GAUGE W.PLAST.HAND.0,45	1
4924 050	FEELER GAUGE W.PLAST.HAND.0,50	1
4924 060	FEELER GAUGE W.PLAST.HAND.0,60	1



Valve-Adjust Gauge Set

- 11-piece
- 0.05 mm rising at the key ring
- Blade thickness 0.10 - 0.60 mm

Article No.	Article Description	QTY
4924 1	FEEL.GAUGE SET11PART.0,10-0,60	1



Valve-Adjust Gauge

Art. No. 4923 8:

- 8 blades

Art. No. 4923 13:

- 13 blades

Art. No. 4923 20:

- 20 blades

Art. No. 4923 21:

- 21 blades

Article No.	Article Description	QTY
4923 8	FEEL.GAUGE 0,05-0,50 8 BLADES	1
4923 13	FEEL.GAUGE 0,05-1,00 13BLADES	1
4923 20	FEEL.GAUGE 0,05-1,00 20BLADES	1
4923 21	FEEL.GAUGE 0,05-0,50 21BLADES	1



- **Art. No. 4923 8:** 1x 0.05/0.10/0.15/0.20/0.25/0.30/0.40/0.50 mm
- **Art. No. 4923 13:** 1x 0.05/0.10/0.15/0.20/0.25/0.30/0.40/0.50/0.60/0.70/0.80/0.90/1.00 mm
- **Art.-Nr. 4923 20:** 1x 0.05/0.10/0.15/0.20/0.25/0.30/0.35/0.40/0.45/0.50/0.55/0.60/0.65/0.70/0.75/0.80/0.85/0.90/0.95/1.00 mm
- **Art. No. 4923 21:** 1x 0.10/0.12/0.14/0.16/0.18/0.20/0.22/0.24/0.26/0.28/0.30/0.32/0.34/0.36/0.38/0.40/0.42/0.44/0.46/0.48/0.50 mm

Crash-Check

Electronical rapid-tester for the examination of the vehicle paint and the thickness of a body coating on steel.

- Crash-Check is a tester with an electronical magnet-sensor which finds out damaged spots without any problem, e. g. repaintings, accidental repairs with filler or rusted spots and steel car bodies.
- Especially suitable when purchasing vehicles to find possible damages.

Application:

- Simply put the Crash-Check on the car body and press the button.
- The sensor-electronic is able to show any spot which is not visible to the naked eye:
- **Green:** paint is not thicker than the original condition. Thickness up to 180 µm.
- **Yellow:** paint thickness in threshold value. Thickness up to 450 µm.
- **Red:** Attention! Too thick coating – spatula, accident, rust. Thickness up to 450 µm.



Article No.	Article Description	QTY
5439 22	CRASH-CHECK	1

Suitable battery: E-Block 9V Art. No. 3880 9 (included in delivery)

Coat Thickness Gauge

The coat thickness gauge is especially suitable for automotive and painting applications.

- High accuracy over the total measuring range
- Only one function key
- Approved reverberation sensor-technics and eddy-current technics
- Single-handed manipulation for all measurement problems
- Integrated measuring probe without cable or connector
- Automatical switch on/off
- Selectable metrical or inch display
- Acoustic signal during the measurement
- The coat thickness gauge was especially adapted for automotive and painting applications. The gauge not only allows measurement on steel and iron but also on non-ferrous-metals. It can be changed between both measuring methods by pressing the button.

LCD-Display for:

- Measured value
- Battery condition
- Measuring unit
- Mode of operation
- Serial number



Article No.	Article Description	QTY
5439 24	COAT THICKNESS GAUGE 4500	1

Included in delivery:

- Coat thickness gauge
- 2 x 1.5 V Mignon batteries, Art. No. 3880 15 1
- Box with devices
- Operation instructions

Technical Data

Base material (substrate)	
Steel and iron:	Fe-sensor (4200/4500)
Non-magnetic metals e.g. Aluminium, copper, brass:	NFe-sensor (4500)
Measuring range Fe (4200/4500):	0 - 3000 µm
Measuring range NFe (4500):	0 - 2000 µm
Measuring accuracy:	+/- (2 µm + 3%*)
Smallest radius of curvature:	5 mm convex, 25 mm concave
Smallest thickness of the base material:	Fe: 0.2 mm
Temperature range:	NFe: 0,05 mm
Display:	0°C - 60°C
Measuring sensor:	digital (LCD)
Current supply:	integrated single-point
Dimensions:	2 x 1.5 V Mignon batteries 3880 15 1
Weight:	100 mm x 60 mm x 27 mm
	approx. 110 g

Coating Thickness Gauge TB 72

- High measuring precision, easy-to-use
- For quick paint coating diagnosis with acoustic signal when measuring
- Usable for painted ferrous and non-ferrous metals
- Only 3 function buttons
- Robust, UV resistant and splash-proof plastic housing
- Integrated measured data memories for the last 10 measurements
- Turnable display for difficultly accessible areas

Technical Data

Size:	94 x 48 x 24.2 mm
Weight:	70 g
Battery:	1.5 V Micro (AAA)
Measuring range:	0-2000 μm / 0-40 mil
Measuring accuracy	+ (2 μm + 3%) / + (0,1 mil + 3%)

Article No.	Article Description	QTY
5439 27	COATING THICKNESS GAUGE TB72	1

Delivery in case with VAROsoft system tray:

- 1x Coating thickness gauge
- 1x Calibration plate (Fe)
- 1x Calibration pl(NFe)
- 1x Pack testing foils
- 1x Operation instructions

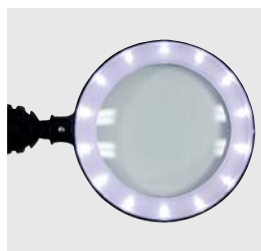


Mechanic's magnifier with LED

- If necessary, the area to be enlarged can be illuminated by the 14 light-emitting diodes
- With magnetic stand
- Can be operated with batteries or with a 100 – 240 V AC adapter.
Art.-No. 5423N 28 1 (**not included in delivery**)

Technical Data

Enlargement:	3x
Lens diameter:	90 mm
Number of LEDs:	14
Battery:	1.5 V Micro (AAA) Art.-No. 3880N 15 3



Article No.	Article Description	QTY
5439 14	MECHANIC'S MAGNIFIER 14 W.LED	1

Contents, Art.-No. 5439 14:

- 2 x 1.5 V Micro (AAA) batteries
- 1 x Storage case

Battery-powered inspection camera Flex3

- The camera head on a flexible line sends pictures directly to the LC monitor
- The camera shows what is hidden behind or inside objects, walls, lines, cables, etc., even in low lighting conditions, thanks to the LED lighting
- The pictures can be recorded for subsequent analysis
- Waterproof camera head and cable
- Ideal for inaccessible areas as a result of the very small camera head (Ø 6 mm)
- The camera unit can be exchanged depending on the application
- 4 high-performance LEDs for high-intensity illumination of objects on camera by means of a reduction in extraneous light:
- High-contrast LC display, which also provides an optimum picture with strong light irradiation
- Operation of external monitors via TV Out connection
- Image rotation: the picture can be rotated by 180° on the monitor by means of the manual image rotation
- Reversed images can be corrected using the mirror function

Technical Data

Camera head Ø/cable length:	Ø9 mm/1.5 m
Screen type:	3.5" TFT colour display
Camera resolution:	640 × 480 pixel
Display resolution:	320 × 240 pixel
Picture/video format:	JPEG/AVI
LED:	10 brightness levels
Digital zoom:	10% increments
Storage:	SDHC card max. 8 GB
Interface:	Mini USB
Power supply:	Li-ion battery
Weight:	0.5 kg



Article No.	Article Description	QTY
4716 09 15	BATT.INSPECTION CAMERA FLEX3	1

Scope of delivery:

- Li-ion battery pack,
- charging device
- Software
- USB/REC cable
- 4 GB micro SD card
- Video connection cable
- Portable case

Endoscope Video Basic

- Fast and easy position fixing of damaged parts in difficultly accessible parts without time-consuming and expensive disassembly works at the engine, gear, tank, body parts such as doors and sills etc.
- Waterproof, oil and fuel resistant probe with scratch-resistant sapphire glass which protects the camera and lens, provides high viewing quality
- Different mirrors for highest possible viewing angle

Technical Data

Working temperature:	-10 to +60°C
Battery:	Li-Polymer 3,7V (AC100-240V/50-60Hz)
Charg.	2 hrs / 4 hrs
time/work duration:	
Monitor:	TFT LCD 16.7 mio. colours
Image rate:	~30 bps
Image format:	JPEG (640x480)
Video format:	ASF (320x240)
Compression format:	MPEG4
Memory medium:	1 GB SD Card (max. 2GB)
Language:	14-languages
Probe Ø:	5.5 mm
Probe length:	1000 mm
Bend radius:	max. 15 mm
Lens type:	aspherical lens, Ø 3.6 mm
Opening angle:	Horizontal 46° - vertical 34° - diagonal 56°
Light source:	4 dimmable white Mini-LED's
Mirror:	Viewing direction 70°, opening angle 40°
Mirror:	Viewing direction 90°, opening angle 45°
Mirror:	Viewing direction 110°, opening angle 35°
Adaption:	Fine thread at camera head



Article No.	Article Description	QTY
5439 300	ENDOSCOPE VIDEO BASIC 12-PA.1M	1

Included in delivery:

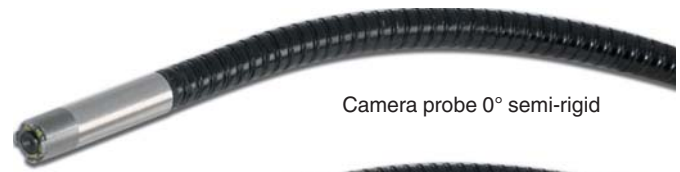
- 1x Hand device with screen
- 1x Probe Ø 5.5 mm, 1000 mm length
- 1x Mirror 70°
- 1x Mirror 90°
- 1x Mirror 110°
- 1x Mains cable 110V / 220 V
- 1x USB-data cable (USB 1.1/USB 2.0)
- 1x AV-cable, 2 m length
- 1x SD-card, 1 GB
- 1x Cleaning set (Alcohol, cleaning cloth and sticks)

Endoscope Video Accessories

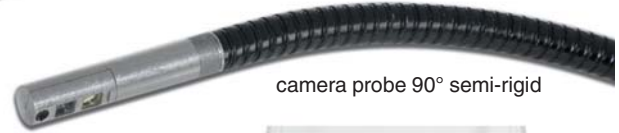
Technical Data

Probes:	
Diameter:	5.5 mm
Bending radius:	max. 15 mm
Lens type:	aspherical lens, d 3.6 mm
Camera protection:	Attachment made of scratch-resistant sapphire glass, camera socket made of stainless steel
Viewing direction:	
Camera resolution:	0 degree (90 degrees)
Depth of definition:	32 (H) x 240 (V) = 76800 pixel
AV-magnification:	1 cm - 6 cm
Working temperature:	up to 15" over Cinch
Resistance:	0°C to 75°C
Light source	waterproof max. 1m/oil and fuel resistant 4 dimmable, white Mini-LED

Article No.	Article Description	QTY
5439 311	MIRROR 70° FOR ENDOSCOPE	1
5439 312	MIRROR 90° FOR ENDOSCOPE	1
5439 313	MIRROR 110° FOR ENDOSCOPE	1
5439 314	HOOKED CAP FOR ENDOSCOPE	1
5439 315	MAGNETIC SOCKET FOR ENDOSCOPE	1
5439 316	CLEANING SET FOR ENDOSCOPE	1
5439 321	CAMERA PROBE 90° SEMI-RIGID 2M	1
5439 322	CAMERA PROBE 90° SEMI-RIGID 3M	1
5439 329	CAMERA PROBE 0° SEMI-RIGID 1M	1
5439 330	CAMERA PROBE 0° SEMI-RIGID 2M	1
5439 331	CAMERA PROBE 0° SEMI-RIGID 3M	1
5439 339	CAM.PROBE 90°SEMI-RIG.3.9MM 1M	1



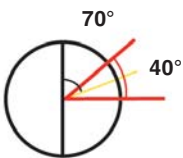
Camera probe 0° semi-rigid



camera probe 90° semi-rigid



5439 316

Mirror
70°

Art.-No. 5439 311

Mirror
90°

Art.-No. 5439 312

Mirror
110°

Art.-No. 5439 313



Magnetic socket

Art.-No. 5439 315

Magnetic
socket

Art.-No. 5439 314

Temperature testing device

- touch and contact-free temperature measurement of all surfaces
- very quick measuring time at the push of a button - within a few seconds
- the touch-free temperature measuring device measures the surface temperature of an object using infrared beam. Therefore the whole of the reflected infra red beam is bundled on the infra red sensor from the measuring surface. The device works out the temperature value and indicates it on the LCD display.
- the laser is only used to target

applications:

- cooling of the air conditioning unit (in air outlets in passenger compartment)
- thermostat testing
- cooler temperature measurement (sudden temperature change indicates a blocked cooler)



Technical Data

measuring unit:	Celsius (°C) and Fahrenheit (F)
test range:	-20°C - +500°C
accuracy:	-20°C - 0°C ±3°C / 0°C - 500°C ±2°C
relation removal / test point:	10:1
operating temperature:	0°C to +40°C
power supply:	9 V battery
dimensions HxBxD:	142 x 92x 47 mm
repetitive accuracy:	±1°C
weight:	135 g

example for test point: distance 20 cm = test point Ø 2.0 cm



Display

Article No.	Article Description	QTY
5439 35 2	TEMP.MEAS.DEVICE -20°/+500°C	1

Temperature and condensation meter

- Contactless infrared temperature measuring instrument for locating heat bridges and condensation
- With integrated laser for targeting measurement surfaces
- Additional measurement of relative air humidity (20% - 90%); determination of dew point and atmospheric temperature
- Large temperature measurement range (-40°C - 600°C)
- Emissivity 0.10 - 0.99 (adjustable)
- Bar graph condensation indicator
- Min./max./avg. displays: Displays the smallest, largest or average value
- Illuminated display

Technical Data

Unit of measurements:	Celsius (°C) and Fahrenheit (F)
Measurement range:	-40°C to +600°C
Measuring precision:	±1°C
Ratio of distance measuring point:	8:1
Working temperature:	-10°C to 60°C
Emissions rating:	0,10 to 0,99
Dew point display:	-20°C to 60°C
Laser classification:	2M < 5mW
Dimensions(H x W x T):	108 x 161 x 38 mm
Weight:	185 g
Battery:	9V E Block

Article No.	Article Description	QTY
5439 35 3	TEMPERATURE/CONDENSATION METER	1

Scope of delivery:

Meter plus transportation bag, battery



Pressure/Vacuum Pump Set

Fields of application:

- Exhaust gas recirculation valves
- Brake booster
- Fuel control
- Fuel systems
- Vacuum sensors
- Pressure and vacuum cans
- Turbo charger - control valve
- Central locking
- Distributor

Light-metal design with two-way changeover switch

- Vacuum measuring range 0-1.0 bar
- Overpressure measuring range 0-4.0 bar



5439 2 10 1

Gas Leak Detector

- The gas leak detector is a small, handy and easy to use device for combustible gases such as LPG (liquefied petroleum gas) and natural gas etc.
- Adjustable tick rate for fast leak detection
- Optical and acoustic alarm
- Precision sensor
- Illuminated sensor top for easy leak detection
- Ear plug and connection socket
- **Other gases / substances which can be detected by the gas leak detector:-** Alcohol (halon, aircraft petrol)- Acetone (solvent agent, combustible cooling agent)- Ammonia (methane, hydrosulphide)- Petrol (naptha, toluene)- Butane (natural gas)- Ethyl oxide (propane)



Technical Data

Principle of measurement:	Semiconductor sensor
Indicator:	Adjustable ticking rate, flash. LED
Sensitivity:	< 50 ppm methane in air
Sensor:	Solid state
Measuring cycle:	permanent use
Heating phase:	<1 minute
Sensor neck:	L: 450 mm
Working temperature:	0° - 50°C
	10% - 90% RH (not condensed)
Weight:	500 g
Dimension:	LxWxH: 203 x 100 x 86 mm
Power supply:	9 V battery
Battery service life:	approx. 5 hours

Article No.	Article Description	QTY
5439 25	GAS-LEAK DETECTOR	1

Gas Check

- Fill level determination in liquid gas bottles (LPG) made of steel and aluminium
- Visual and audible signal to indicate the level
- Auto shut-off function
- Areas of application: e.g. welding bitumen sheeting, heat emitters or when camping

Article No.	Article Description	QTY
4716 200 350	GAS-CHECK	1



Stud Bolt Recutting Set, 4 pcs

- For cleaning and trimming bolts & wheel bolts whose top threads are damaged
- In contrast to conventional thread cutting dies, the tool is placed on the bottom threads and then unscrewed upwards
- This eliminates the difficult positioning and possibly oblique initial cut, as can occur when using a normal threading die
- For threads: M12 x 1.25, M12 x 1.5, M14 x 1.5

Article No.	Article Description	QTY
5569 4	STUD BOLT RECUTTING SET, 4 PCS	1

Contents:

- Art.-No. 5569 4 1 Drive adapter
- Art.-No. 5569 4 3 Threading die M12 x 1.25
- Art.-No. 5569 4 4 Threading die M12 x 1.5
- Art.-No. 5569 4 5 Threading die M14 x 1.5



Stud Bolt Recutting Set, Vehicle 5 pcs

- For the cleaning and thread-chasing of wheel studs and wheel nuts on which the front threads have been damaged
- Contrary to conventional thread chasing, the tool is placed on the rear thread passes and is then rotated forwards
- This eliminates the problems of positioning and possibly the chasing the thread obliquely that can occur with normal thread-tapping tools
- For threads: M18 x 1.5, M20 x 1.5, M22 x 1.5, 7/8"-11 BSF (Scania)

Article No.	Article Description	QTY
5569 5	THREAD CHAS.KIT STUD BOLTS5PCE	1

Contents:

- Art.-No. 5569 5 1 Drive adapter
- Art.-No. 5569 5 3 Threading die M18 x 1,5
- Art.-No. 5569 5 4 Threading die M20 x 1,5
- Art.-No. 5569 5 5 Threading die M22 x 1,5
- Art.-No. 5569 5 6 Threading die 7/8-11 BSF



Stud Remover

- For the safety turning in and extraction of stud removers
- With 1/2"-square drive

Technical Data

Art. No.	D mm	Length mm
4480 6	24	65
4480 8	24	65
4480 10	28	75
4480 12	28	75



Article No.	Article Description	QTY
4480 6	STUD REMOVER F. M 6	1 z
4480 8	STUD REMOVER F. M 8	1 z
4480 10	STUD REMOVER F. M 10	1 z
4480 12	STUD REMOVER F. M 12	1 z

Stud Remover Kit

- 4-piece
- For threads M6, M8, M10 and M12

Article No.	Article Description	QTY
4480 6 12	STUD REMOVER KIT 6-12MM	1



Weld-on Aid for Nuts M8-12

- Makes fast and easy welding-on of nuts and worn screws and bolts possible
- This enables unscrewing of worn screws
- Also suitable for screws with round and turned drive (e.g. Allen key, Torx, cross recessed etc.)



Article No.	Article Description	QTY
4480 8 12	WELD-ON AID FOR NUTS M8-12	1

Screw Remover

- Self-cutting, does not displace the material
- For right-handed and left-handed threads

Application:

- Drill - drive in - remove

Technical Data

Art. No.	Drill-Ø mm	Drilling depth mm	Hexagon- drive	Length mm
4960 6 8	3.0	5	1/4"	38
4960 8 10	4.0	5	1/4"	38
4960 12 14	6.0	9	5/16"	38
4960 16	7.0	9	5/16"	38



Article No.	Article Description	QTY
4960 6 8	SCREW REMOVER CYL.M 6 - 8	1
4960 8 10	SCREW REMOVER CYL.M 8 - 10	1
4960 10 12	SCHRAUBEN-AUSDREHER ZYL.M10-12	1
4960 12 14	SCREW REMOVER CYL.M 12 - 14	1

(For screws M)

Screw-Remover-Set

- 5-piece

Article No.	Article Description	QTY
4960 1	SCREW-REMOVER-SET CYL.M6-18	1



4960 6 8

4960 8 10

4960 10 12

4960 12 14

Extracting Tool Set with Left-hand Thread Turn

- 21-part in plastic case
- Socket wrench made of high-quality special steel with spiral profile
- For quick and easy loosening of defect, round turned screws, nuts and stud bolts
- Easy unscrewing due to the special left-hand twist the edges of the nut cut themselves into the roundly turned screw head or roundly turned nut
- 1/2" drive
- Left-hand cutting HSSE-TIN twist drill, ground, for unscrewing broken screws and stud bolts
- Due to left-hand cutting version of the drills broken screws are often unscrewed while drilling. Therefore no further processing necessary.
- The length of 180 mm is ideally suitable for difficult screws such as in engines, cylinder heads etc.
- Also suitable for hardened and tempered materials up to a tensile strength of 10.9 (bis 1000 N/mm²), stainless steel, spring steel
- Screw extractor for broken screws if the nut cannot come to use



Article No.	Article Description	QTY
4961 90	EXTRACTOR+LH-DRILL-SET 21-PART	1

Contents:

- 1x Art. No. 4960 6 8 Screw extractor cylinder M6 - M8
- 1x Art. No. 4960 8 10 Screw extractor cylinder M8 - M10
- AGR 4961 Extracting socket wrench 10/11/12/13/14/16/17/18/19/21/22/24/27 mm
- 1x Art. No. 4961 8 12 Extractor pin
- 1x Art. No. 5503 1 33 Twist drill ground HSSE-Tin left-hand drill Ø 3.3 mm
- 1x Art. No. 5503 1 42 Twist drill ground HSSE-Tin left-hand drill Ø 4.2 mm
- 1x Art. No. 5503 1 50 Twist drill ground HSSE-Tin left-hand drill Ø 5.0 mm
- 1x Art. No. 5503 1 68 Twist drill ground HSSE-Tin left-hand drill Ø 6.8 mm
- 1x Art. No. 5503 1 85 Twist drill ground HSSE-Tin left hand drill Ø 8.5 mm
- 1x Art. No. 4415 14 47 1 Empty case size A

Extractor Socket Wrench 1/2"

- With special milling
- Left-hand turning

Article No.	Article Description	QTY
4961 10	EXTRACT.SOCK.WRENCH 1/2" 10MM	1
4961 11	EXTRACT.SOCK.WRENCH 1/2" 11MM	1
4961 12	EXTRACT.SOCK.WRENCH 1/2" 12MM	1
4961 13	EXTRACT.SOCK.WRENCH 1/2" 13MM	1
4961 14	EXTRACT.SOCK.WRENCH 1/2" 14MM	1
4961 15	EXTRACT.SOCK.WRENCH 1/2" 15MM	1
4961 16	EXTRACT.SOCK.WRENCH 1/2" 16MM	1
4961 17	EXTRACT.SOCK.WRENCH 1/2" 17MM	1
4961 18	EXTRACT.SOCK.WRENCH 1/2" 18MM	1
4961 19	EXTRACT.SOCK.WRENCH 1/2" 19MM	1
4961 20	EXTRACT.SOCK.WRENCH 1/2" 20MM	1
4961 21	EXTRACT.SOCK.WRENCH 1/2" 21MM	1
4961 22	EXTRACT.SOCK.WRENCH 1/2" 22MM	1
4961 24	EXTRACT.SOCK.WRENCH 1/2" 24MM	1
4961 27	EXTRACT.SOCK.WRENCH 1/2" 27MM	1



Extractor Pin

- For the removal of unscrewed nuts from extractor socket wrenches

Article No.	Artikel-Bezeichnung	QTY
4961 8 12	EXTRACTOR PIN 8/12MM	1



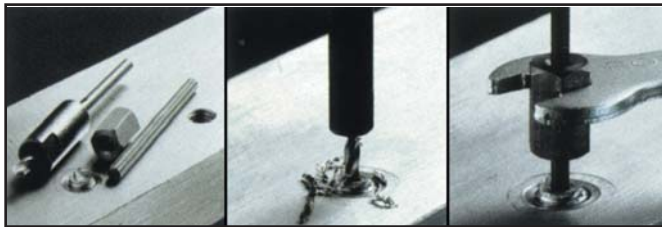
Twist Drill DIN 338 HSS-TIN, Ground Type N

Article No.	Article Description	QTY
5503 1 33	TW.DR.GR.HSSEE-TIN LI.180MM3.3	1 z
5503 1 42	TW.DR.GR.HSSEE-TIN LI.180MM4.2	1 z
5503 1 50	TW.DR.GR.HSSEE-TIN LI.180MM5.0	1 z
5503 1 68	TW.DR.GR.HSSEE-TIN LI.180MM6.8	1
5503 1 85	TW.DR.GR.HSSEE-TIN LI.180MM8.5	1 z



Thread-Remover-Set Complete

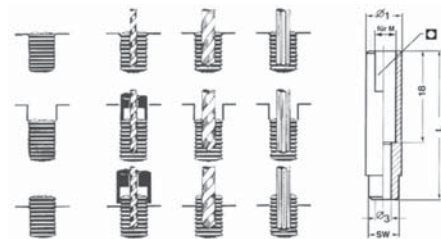
- For screws and bolts M5 - M16



Article No.	Article Description	QTY
4960 90	THREAD-REMOVER-SET COMPLETE	1

Contents:

- each 1x Twist drill DIN 338 HSS-E, ground type N Ø 4,0 / 4,6 / 6,0 / 7,5 / 8,5 mm
- 10x Guide sleeves
- 5x Drill-out studs
- 5x Drill-out nuts



Twist Drill DIN 338 HSS-TIN, Ground Type N

Article No.	Article Description	QTY
5502 40	TWIST DRILL 338 HSS-E-CO 4,0	10
5502 46	TWIST DRILL 338 HSS-E-CO 4,6	10
5502 60	TWIST DRILL 338 HSS-E-CO 6,0	10
5502 75	TWIST DRILL 338 HSS-E-CO 7,5	10
5502 80	TWIST DRILL 338 HSS-E-CO 8,0	10

Technical Data

Art.-No.	Ø mm	L mm
5502 40	4,0	75
5502 46	4,6	80
5502 60	6,0	93
5502 75	7,5	109
5502 85	8,5	117

Guide Sleeves for Thread-Remover-Set

- Size: 1 - 10

Article No.	Artikel-Bezeichnung	QTY
4960 14	GUIDE SLEEVES SIZE1 F. REM.SET	1
4960 24	GUIDE SLEEVES SIZE2 F. REM.SET	1
4960 34	GUIDE SLEEVES SIZE3 F. REM.SET	1
4960 44	GUIDE SLEEVES SIZE4 F. REM.SET	1
4960 54	GUIDE SLEEVES SIZE5 F. REM.SET	1
4960 64	GUIDE SLEEVES SIZE6 F. REM.SET	1
4960 74	GUIDE SLEEVES SIZE7 F. REM.SET	1
4960 84	GUIDE SLEEVES SIZE8 F. REM.SET	1
4960 94	GUIDE SLEEVES SIZE9 F. REM.SET	1
4960 104	GUIDE SLEEVES SIZE10 F.REM.SET	1

Technical Data

Art. No.	Ø 1 mm	SW mm	Ø 3 mm	for M	L mm
4960 14	7	6	4	5	30
4960 24	8	7	4	6	30
4960 34	9	8	4	7	30
4960 44	10	9	4	8	30
4960 54	11	9	5	8	30
4960 64	12	10	5	9	30
4960 74	13	11	5	10	30
4960 84	14	12	6	11	30
4960 94	15	13	7.5	12	30
4960 104	17	15	8.5	14	30

Replacement Studs for Thread-Remover-Set

- Size: 1 - 5

Article No.	Article Description	QTY
4960 11	REPL.STUD NO.1 F.REMOVER SET	1
4960 21	REPL.STUD NO.2 F.REMOVER SET	1
4960 31	REPL.STUD NO.3 F.REMOVER SET	1
4960 41	REPL.STUD NO.4 F.REMOVER SET	1
4960 51	REPL.STUD NO.5 F.REMOVER SET	1

Technical Data

Art. No.	Ø mm	M	L mm
4960 11	4,0 / 4,3	5 - 6	60
4960 21	4,6 / 5,1	7 - 8	70
4960 31	6,0 / 6,6	9 - 10	78
4960 41	7,5 / 8,3	12	86
4960 51	8,5 / 9,3	14 - 16	94

Repl.-Drill Out Nut for Thread-Remover-Set

- Size: 1 - 5

Article No.	Article Description	Artikel-Bezeichnung	QTY
4960 12	DRILL OUT NUT NO.1 FOR REM.SET		1
4960 22	DRILL OUT NUT NO.2 FOR REM.SET		1
4960 32	DRILL OUT NUT NO.3 FOR REM.SET		1
4960 42	DRILL OUT NUT NO.4 FOR REM.SET		1
4960 52	DRILL OUT NUT NO.5 FOR REM.SET		1

Technical Data

Art. No.	mm	L mm
4960 12	10	16
4960 22	11	16
4960 32	13	16
4960 42	14	16
4960 52	16	16

Spiral screwdriver set, short 15-pce.

- for the quick and unproblematic release of round turned or broken screws or bolts
- made from high quality special steel socket wrenches with spiral profile for a safe hold
- ideal for us in hard to reach places thanks to the short design (28 mm)
- 12 mm and 16 mm hexagonal drive for sockets wrenches and spanners

contents art. no. 4960 15:

- 1 x spiral extractor short 3 mm, 4 mm, 5 mm, 5,5 mm, 6 mm, 8 mm, 10 mm, 11 mm, 12 mm, 14 mm, 1/8", 3/16", 1/4", 3/8", 1/2"

Article No.	Article Description	QTY
4960 15	SPRIAL SCREWDR.SET15-PCE SHORT	1



Spiral screwdriver, short

Article No.	Article Description	QTY
4960 15 3	SPIRAL SCREWDR.SHORT 3MM	1
4960 15 4	SPIRAL SCREWDR.SHORT 4MM	1
4960 15 5	SPIRAL SCREWDR.SHORT 5MM	1
4960 15 55	SPIRAL SCREWDR.SHORT 5,5MM	1
4960 15 6	SPIRAL SCREWDR.SHORT 6MM	1
4960 15 8	SPIRAL SCREWDR.SHORT 8MM	1
4960 15 10	SPIRAL SCREWDR.SHORT 10MM	1
4960 15 11	SPIRAL SCREWDR.SHORT 11MM	1
4960 15 12	SPIRAL SCREWDR.SHORT 12MM	1
4960 15 14	SPIRAL SCREWDR.SHORT 14MM	1
4960 15 018	SPIRAL SCREWDR.SHORT 1/8"	1
4960 15 0316	SPIRAL SCREWDR.SHORT 3/16"	1
4960 15 014	SPIRAL SCREWDR.SHORT 1/4"	1
4960 15 038	SPIRAL SCREWDR.SHORT 3/8"	1
4960 15 012	SPIRAL SCREWDR.SHORT 1/2"	1



Spiral Screw Extractor Set, long, 7pcs

- For quick and easy removal of famaged or broken screws and studs
- Socket wrench inserts made from high-quality, special steel with a conical spiral profile
- Long design is ideal for use in deep-seated threaded fasteners
- suitable for impact werenches
- 3/8" / 1/2" square driver

Contents art.-no. 4960V 7:

3/8": 3, 4, 6, 8, 10 mm (overall length 60 mm)

1/2": 12, 14 mm (overall length 78 mm)

Article No.	Article Description	QTY
4960V 7	SPIR.SCR.EXTR.SET LONG 7PCS	1



Spiral Screw Extractors, long

Article No.	Article Description	QTY
4960 7 38 3	SPIRAL SCR.EXTRACT.LONG 3MM	1
4960 7 38 4	SPIRAL SCR.EXTRACT.LONG 4MM	1
4960 7 38 6	SPIRAL SCR.EXTRACT.LONG 6MM	1
4960 7 38 8	SPIRAL SCR.EXTRACT.LONG 8MM	1
4960 7 38 10	SPIRAL SCR.EXTRACT.LONG 10MM	1
4960 7 12 12	SPIRAL SCR.EXTRACT.LONG 12MM	1
4960 7 12 14	SPIRAL SCR.EXTRACT.LONG 14MM	1



Hydraulic nut splitter

- for blasting of non-detachable nuts up to property class 10
- the hydraulic power gear ratio facilitates the blasting of high property class nuts
- just press back the chisel after use with the counterpart
- damaged or blunt chisels must be exchanged to prevent unwanted chipping
- always wear safety goggles when working with the hydraulic nut splitter
- die-forged body, chisel case-hardened

Technical Data	
compressive force:	5 t 7–27 mm / M4–M14
spanner gap:	720 g
weight:	

Article No.	Article Description	QTY
4960 5	NUT SPLITTER HYDRAULIC 5T	1
4960 5 10	REPL.COUNTERPART F.HYD.N.SPL.	1
4960 5 11	REPL.CHISELS F.HYDR.NUT SPLI.	1



Mebux® thread inserts

Application - Metric thread



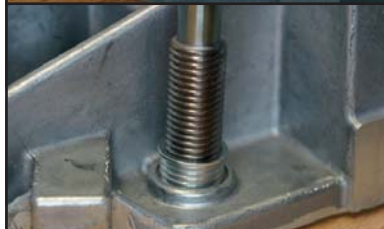
Step 1:
Drill out the damaged thread with the Mebux HSS drill bit (C) to the bottom. Pay attention to the direction of the hole.



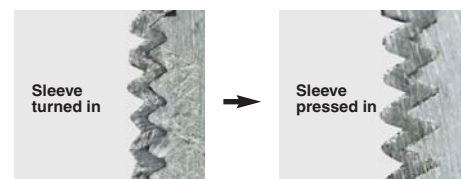
Step 2:
Use the Mebux fit milling cutter (D) to countersink the hole until the depth stop is resting on the workpiece. .



Step 3:
The thread cutter (B) can now be used to cut a new thread. Straight guidance in the bore hole is important. Turn out the thread cutter (B) once the full drilling depth has been reached and blow out the chips.



Step 4:
Noticeable resistance occurs when the threaded sleeve has been fully inserted into the thread using the lubricated turning tool (A). Continue to turn the tool until the turning-in resistance drops perceptibly. Only this method ensures that the sleeve is pressed into the threads of the work piece.



A =
Screw-in tool



B =
Thread cutter

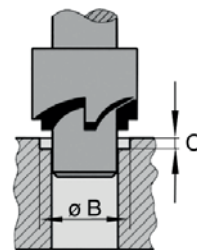
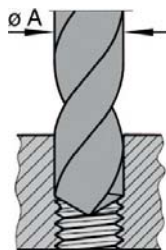
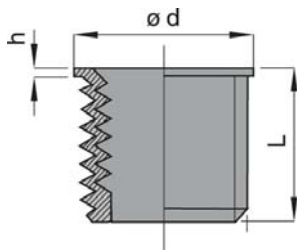


C =
Drill bit



D =
Seat burr, tap borer

Mebux Threaded bushing, galvanized



Art.-No.	Internal thread	Thread	L mm	ø d mm	h mm	ø A mm	ø B mm	C mm
5572 4 07 60	M4 x 0,7	MR	6,0	5,5	0,75	4,2	5,8	1,7
5572 4 07 80	M4 x 0,7	MR	8,0	5,5	0,75	4,2	5,8	1,7
5572 5 08 76	M5 x 0,8	MR	7,6	7,0	0,75	5,05	7,1	1,8
5572 5 08 100	M5 x 0,8	MR	10,0	7,0	0,75	5,05	7,1	1,8
5572 6 10 94	M6 x 1,0	MR	9,4	8,0	0,75	6,25	8,1	1,8
5572 6 10 120	M6 x 1,0	MR	12,0	8,0	0,75	6,25	8,1	1,8
5572 7 10 100	M7 x 1,0	MF	10,0	8,8	0,75	7,35	8,9	1,9
5572 7 10 140	M7 x 1,0	MF	14,0	8,8	0,75	7,35	8,9	1,9
5572 8 125 117	M8 x 1,25	MR	11,7	10,6	0,75	8,2	10,7	2,1
5572 8 125 162	M8 x 1,25	MR	16,2	10,6	0,75	8,2	10,7	2,1
5572 9 125 130	M9 x 1,25	MF	13,0	11,0	0,75	9,3	11,2	2,1
5572 9 125 180	M9 x 1,25	MF	18,0	11,0	0,75	9,3	11,2	2,1
5572 10 10 150	M10 x 1,0	MF	15,0	11,6	0,75	10,3	12,9	2,0
5572 10 125 150	M10 x 1,25	MF	15,0	12,6	0,75	10,3	12,9	2,2
5572 10 125 200	M10 x 1,25	MF	20,0	12,6	0,75	10,3	12,9	2,2
5572 10 15 140	M10 x 1,5	MR	14,0	12,6	0,75	10,3	12,9	2,2
5572 10 15 200	M10 x 1,5	MR	20,0	12,6	0,75	10,3	12,9	2,2
5572 11 125 220	M11 x 1,25	MF	22,0	13,5	0,75	11,5	14,1	2,6
5572 11 15 160	M11 x 1,5	MF	16,0	13,5	0,75	11,5	14,1	2,1
5572 11 15 220	M11 x 1,5	MF	22,0	13,5	0,75	11,5	14,1	2,1
5572 12 15 93	M12 x 1,5	MF	9,3	15,0	0,75	12,3	15,1	2,1
5572 12 15 163	M12 x 1,5	MF	16,3	15,0	0,75	12,3	15,1	2,1
5572 12 15 240	M12 x 1,5	MF	24,0	15,0	0,75	12,3	15,1	2,1
5572 12 175 162	M12 x 1,75	MR	16,2	15,0	0,75	12,7	15,4	2,8
5572 12 175 240	M12 x 1,75	MR	24,0	15,0	0,75	12,7	15,4	2,8
5572 14 15 260	M14 x 1,5	MF	26,0	17,0	0,75	14,7	17,1	2,8
5572 14 15 65	M14 x 1,5	MF	6,5	17,0	0,75	14,7	17,1	2,8
5572 14 15 93	M14 x 1,5	MF	9,3	17,0	0,75	14,7	17,1	2,8
5572 14 15 128	M14 x 1,5	MF	12,8	17,0	0,75	14,7	17,1	2,8
5572 14 15 160	M14 x 1,5	MF	16,0	17,0	0,75	14,7	17,1	2,8
5572 16 15 70	M16 x 1,5	MF	7,0	18,5	0,75	16,7	19,0	2,9
5572 16 15 127	M16 x 1,5	MF	12,7	18,5	0,75	16,7	19,0	2,9
5572 16 15 240	M16 x 1,5	MF	24,0	18,5	0,75	16,7	19,0	2,9
5572 16 20 240	M16 x 2,0	MR	24,0	19,2	0,75	16,7	20,0	2,9
5572 16 20 320	M16 x 2,0	MR	32,0	19,2	0,75	16,7	20,0	2,9
5572 18 15 100	M18 x 1,5	MF	10,0	20,5	0,75	18,3	21,3	3,5
5572 18 15 183	M18 x 1,5	MF	18,3	20,5	0,75	18,3	21,3	3,5
5572 18 15 270	M18 x 1,5	MF	27,0	20,5	0,75	18,3	21,3	3,5

(MR = Metric Regulation Thread, MF = Metric Fine Thread)

Mebux Threaded bushing, stainless steel

- Material: 1.4305 (X8CrNiS18-9), austenitic stainless chromium-nickel steel with sulphur additive
- Can be used wherever contact with food is possible

Art.-No.	Internal thread	Thread	L mm	ø d mm	h mm	ø A mm	ø B mm	C mm
5572 6 1094 5	M6 x 1,0	MR	9,4	8,0	0,75	6,25	8,1	1,8
5572 6 10120 5	M6 x 1,0	MR	12,0	8,0	0,75	6,25	8,1	1,8
5572 8125117 5	M8 x 1,25	MR	11,7	10,6	0,75	8,2	10,7	2,1
5572 8125162 5	M8 x 1,25	MR	16,2	10,6	0,75	8,2	10,7	2,1
5572 10 151405	M10 x 1,5	MR	14,0	12,6	0,75	10,3	12,9	2,2
5572 10 152005	M10 x 1,5	MR	20,0	12,6	0,75	10,3	12,9	2,2

Mebux® Assortment 56-pce, galvanised

- Thin-walled, solid steel insert, galvanised
- Coarse-pitch metric thread
- 56-pce
- With VAROsoft system insert Art.-No. 9026 300



Contents

Article No.	Article Description	Quantity
5572 5 08 1	INSERTION TOOL M5X0.8	1
5572 5 08 2	TAP M 5X0.8	1
5572 5 08 3	DRILL BIT M 5X0.8	1
5572 5 08 4	FIT MILLING CUTTER M 5X0.8	1
5572 5 08 76	PCK(5)THREAD BUSH.M5X0.8X7.6GV	1
5572 5 08 100	PCK(5)THR.BUSH.M5X0.8X 10.0 GV	1
5572 6 10 1	INSERTION TOOLS M6X1.0	1
5572 6 10 2	TAP M 6X1.0	1
5572 6 10 3	DRILL BIT M 6X1.0	1
5572 6 10 4	FIT MILLING CUTTER M 6X1.0	1
5572 6 10 94	PACK(5)THR.BU.M6X1.0 X 9.4 GV	1
5572 6 10 120	PACK(5)THR.BU.M6X1.0 X12.0 GV	1
5572 8 125 1	INSERTION TOOL M 8X1.25	1
5572 8 125 2	TAP M 8X1.25	1
5572 8 125 3	DRILL BIT M 8X1.25	1
5572 8 125 4	FIT MILLING CUTTER M 8X1.25	1
5572 8 125 117	PCK(5)THR.BU.M8X1.25X11.7 GV	1
5572 8 125 162	PCK(5)THR.BU.M8X1.25X16.2 GV	1
5572 10 3	DRILL BIT M10X1.0/1.25/1.5	1
5572 10 4	FIT MILL.CUTT.M10X1.0/1.25/1.5	1
5572 10 15 1	INSERTION TOOL M10X1.5	1
5572 10 15 2	TAP M10X1.5	1
5572 10 15 140	PCK(5)THR.BU.M10X1.5X14.0 GV	1
5572 10 15 200	PCK(5)THR.BU.M10X1.5X20.0 GV	1

Article No.	Article Description	QTY
9000 5572	ASSORT.MEBUX STEEL GV 56-PIECE	1
9000R 5572	INLAY ASS.MEBUX STEEL GV 56PCE	1

Your Advantage / Benefit

- Suitable for high constant load and frequent screwing and unscrewing
- Pressure-tight with water, oils, other liquids and gases
- Secure form unscrewing, no gluing required
- The existing collar means additional fixing is not required

Application

- Manufacture of threaded joints and renewal of damaged or stripped threads
- For aluminium, brass, steel and cast materials



Related Products

- Thread cutting oil
Art.-No. 6580 5851



- Tap wrench
Art.-No 5560 2



Mebux® threaded bushing set, galvanized

- Thin-walled, solid steel bushings, galvanized with fitting tool
- Metric standard and fine threads
- Suitable for heavy continuous loading and frequent screwing in and unscrewing
- Pressure-tight with water, oils, other liquids and gases
- Secure from unscrewing and vibration-resistant, no gluing required
- The collar ensures there is a depth stop and means no additional fixing required

Usage areas:

- Fabrication of threaded joints and renewal of damaged or stripped threads
- For aluminium, brass, steel and cast materials

Article No.	Article Description	QTY
5549 5572 407	MEBUX SET GV M 4X0,7 14PCE	1
5549 5572 508	MEBUX SET GV M 5X0,8 14PCE	1
5549 5572 610	MEBUX SET GV M 6X1,0 14PCE	1
5549 5572 710	MEBUX SET GV M 7X1,0 14PCE	1
5549 5572 8125	MEBUX SET GV M 8X1,25 14PCE	1
5549 5572 9125	MEBUX SET GV M 9X1,25 14PCE	1
5549 5572 1010	MEBUX SET GV M10X1,0 14PCE	1
5549 557210125	MEBUX SET GV M10X1,25 14PCE	1
5549 5572 1015	MEBUX SET GV M10X1,5 14PCE	1
5549 557211125	MEBUX SET GV M11X1,25 14PCE	1
5549 5572 1115	MEBUX SET GV M11X1,5 14PCE	1
5549 5572 1215	MEBUX SET GV M12X1,5 14PCE	1
5549 557212175	MEBUX SET GV M12X1,75 14PCE	1
5549 5572 1415	MEBUX SET GV M14X1,5 9PCE	1
5549 5572 1615	MEBUX SET GV M16X1,5 9PCE	1
5549 5572 1620	MEBUX SET GV M16X2,0 9PCE	1
5549 5572 1815	MEBUX SET GV M18X1,5 9PCE	1

Contents Art.-No. 5549 5572 407:

- 5x threaded bushing galv. M4 × 0.7 each of lengths 6.0 and 8.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M4 × 0.7

Contents Art.-No. 5549 5572 508:

- 5x threaded bushing galv. M5 × 0.8 each of lengths 7.6 and 10.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M5 × 0.8

Contents Art.-No. 5549 5572 610:

- 5x threaded bushing galv. M6 × 1.0 each of lengths 9.4 and 12.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M6 × 1.0

Contents Art.-No. 5549 5572 710:

- 5x threaded bushing galv. M7 × 1.0 each of lengths 10.0 and 14.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M7 × 1.0

Contents Art.-No. 5549 5572 8125:

- 5x threaded bushing galv. M8 × 1.25 each of lengths 11.7 and 16.2 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M8 × 1.25

Contents Art.-No. 5549 5572 9125:

- 5x threaded bushing galv. M9 × 1.25 each of lengths 13.0 and 18.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M9 × 1.25

Contents Art.-No. 5549 5572 1010:

- 10x threaded bushing galv. M10 × 1.0 of length 15.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M10 × 1.0

Contents, Art.-No. 5549 557210125:

- 5x threaded bushing galv. M10 × 1.25 each of lengths 15.0 and 20.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M10 × 1.25

Contents Art.-No. 5549 5572 1015:

- 5x threaded bushing galv. M10 × 1.5 each of lengths 14.0 and 20.0 mm



- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M10 × 1.5

Contents, Art.-No. 5549 557211125:

- 10x threaded bushing galv. M11 × 1.25 of length 22.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M11 × 1.25

Contents Art.-No. 5549 5572 1115:

- 5x threaded bushing galv. M11 × 1.5 each of lengths 16.0 and 22.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M11 × 1.5

Contents Art.-No. 5549 5572 1215:

- 5x threaded bushing galv. M12 × 1.5 each of lengths 16.3 and 24.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M12 × 1.5

Contents, Art.-No. 5549 557212175:

- 5x threaded bushing galv. M12 × 1.75 each of lengths 16.2 and 24.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M12 × 1.75

Contents Art.-No. 5549 5572 1415:

- 5x threaded bushing galv. M14 × 1.5 of length 16.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M14 × 1.5

Contents Art.-No. 5549 5572 1615:

- 5x threaded bushing galv. M16 × 1.5 of length 24.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M16 × 1.5

Contents Art.-No. 5549 5572 1620:

- 5x threaded bushing galv. M16 × 2.0 of length 32.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M16 × 2.0

Contents Art.-No. 5549 5572 1815:

- 5x threaded bushing galv. M18 × 1.5 of length 27.0 mm
- 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M18 × 1.5

Mebux® Threaded Bushing, galvanized



5572 14 15 65

5572 14 15 93

5572 14 15 128

5572 14 15 160

5572 14 15 260

Artikel-Nr.	Article Description	QTY
5572 4 07 60	PCK(5)THR.BUSH.M4X0.7X6.0VZ	1
5572 4 07 80	PCK(5)THR.BUSH.M4X0.7X8.0VZ	1
5572 5 08 76	PCK(5)THREAD BUSH.M5X0.8X7.6GV	1
5572 5 08 100	PCK(5)THR.BUSH.M5X0.8X 10.0 GV	1
5572 6 10 94	PCK(5)THR.BU.M6X1.0 X 9.4 GV	1
5572 6 10 120	PCK(5)THR.BU.M6X1.0 X12.0 GV	1
5572 7 10 100	PCK(5)THR. BUSH.M7X1.0X10.0GV	1
5572 7 10 140	PCK(5)THR. BUSH.M7X1.0X14.0GV	1
5572 8 125 117	PCK(5)THR.BU.M8X1.25X11.7 GV	1
5572 8 125 162	PCK(5)THR.BU.M8X1.25X16.2 GV	1
5572 9 125 130	PCK(5)THR. BUSH.M9X1.25X13.0GV	1
5572 9 125 180	PCK(5)THR. BUSH.M9X1.25X18.0GV	1
5572 10 10150	PCK(5)THR.BUSH.M10X1.0 X15.0GV	1
5572 10 125 150	PCK(5)THR.BUSH.M10X1.25X15.0GV	1
5572 10 125 200	PCK(5)THR.BUSH.M10X1.25X20.0GV	1
5572 10 15 140	PCK(5)THR.BU.M10X1.5X14.0 GV	1
5572 10 15 200	PCK(5)THR.BU.M10X1.5X20.0 GV	1
5572 11 125 220	PCK(5)THR.BUSH.M11X1.25X22.0GV	1
5572 11 15 160	PCK(5)THR.BUSH.M11X1.5 X16.0GV	1
5572 11 15 220	PCK(5)THR.BUSH.M11X1.5 X22.0GV	1
5572 12 15 93	PCK(5)THR.BUSH.M12X1.5 X 9.3GV	1
5572 12 15 163	PCK(5)THR.BUSH.M12X1.5 X16.3GV	1
5572 12 15 240	PCK(5)THR.BUSH.M12X1.5 X24.0GV	1
5572 12 175 162	PCK(5)THR.BUSH.M12X1.75X16.2GV	1
5572 12 175 240	PCK(5)THR.BUSH.M12X1.75X24.0GV	1
5572 14 15 65	PCK(5)THR.BUSH.M14X1.5 X 6.5GV	1
5572 14 15 93	PCK(5)THR.BUSH.M14X1.5 X 9.3GV	1
5572 14 15 128	PCK(5)THR.BUSH.M14X1.5 X12.8GV	1
5572 14 15 160	PCK(5)THR.BUSH.M14X1.5 X16.0GV	1
5572 14 15 260	PCK(5)THR.BUSH.M14X1.5 X26.0GV	1
5572 16 15 70	PCK(5)THR.BUSH.M16X1.5 X 7.0GV	1
5572 16 15 127	PCK(5)THR.BUSH.M16X1.5 X12.7GV	1
5572 16 15 240	PCK(5)THR.BUSH.M16X1.5 X24.0GV	1
5572 16 20 240	PCK(5)THR.BUSH.M16X2.0 X24.0GV	1
5572 16 20 320	PCK(5)THR.BUSH.M16X2.0 X32.0GV	1
5572 18 15 100	PCK(5)THR.BUSH.M18X1.5 X10.0GV	1
5572 18 15 183	PCK(5)THR.BUSH.M18X1.5 X18.3GV	1
5572 18 15 270	PCK(5)THR.BUSH.M18X1.5 X27.0GV	1

(Thread-Ø x pitch x length)

Technical Data

Thread	A Insertion tool	B Tap	C HSS Drill bit	D Fit milling cutter
MR	5572 4 07 1	5572 4 07 2	5572 4 07 3	5572 4 07 4
MR	5572 4 07 1	5572 4 07 2	5572 4 07 3	5572 4 07 4
MR	5572 5 08 1	5572 5 08 2	5572 5 08 3	5572 5 08 4
MR	5572 5 08 1	5572 5 08 2	5572 5 08 3	5572 5 08 4
MR	5572 6 10 1	5572 6 10 2	5572 6 10 3	5572 6 10 4
MR	5572 6 10 1	5572 6 10 2	5572 6 10 3	5572 6 10 4
MF	5572 7 10 1	5572 7 10 2	5572 7 10 3	5572 7 10 4
MF	5572 7 10 1	5572 7 10 2	5572 7 10 3	5572 7 10 4
MR	5572 8 125 1	5572 8 125 2	5572 8 125 3	5572 8 125 4
MR	5572 8 125 1	5572 8 125 2	5572 8 125 3	5572 8 125 4
MF	5572 9 125 1	5572 9 125 2	5572 9 125 3	5572 9 125 4
MF	5572 9 125 1	5572 9 125 2	5572 9 125 3	5572 9 125 4
MF	5572 10 10 1	5572 10 10 2	5572 10 3	5572 10 4
MF	5572 10 125 1	5572 10 125 2	5572 10 3	5572 10 4
MF	5572 10 125 1	5572 10 125 2	5572 10 3	5572 10 4
MR	5572 10 15 1	5572 10 15 2	5572 10 3	5572 10 4
MR	5572 10 15 1	5572 10 15 2	5572 10 3	5572 10 4
MF	5572 11 125 1	5572 11 125 2	5572 11 125 3	5572 11 4
MF	5572 11 15 1	5572 11 15 2	5572 11 15 3	5572 11 4
MF	5572 11 15 1	5572 11 15 2	5572 11 15 3	5572 11 4
MF	5572 12 15 1	5572 12 15 2	5572 12 15 3	5572 12 15 4
MF	5572 12 15 1	5572 12 15 2	5572 12 15 3	5572 12 15 4
MF	5572 12 15 1	5572 12 15 2	5572 12 15 3	5572 12 15 4
MR	5572 12 175 1	5572 12 175 2	5572 12 175 3	5572 12 175 4
MR	5572 12 175 1	5572 12 175 2	5572 12 175 3	5572 12 175 4
MF	5572 14 15 1	5572 14 15 2	5572 14 15 3	5572 14 15 4
MF	5572 14 15 1	5572 14 15 2	5572 14 15 3	5572 14 15 4
MF	5572 14 15 1	5572 14 15 2	5572 14 15 3	5572 14 15 4
MF	5572 14 15 1	5572 14 15 2	5572 14 15 3	5572 14 15 4
MF	5572 16 15 1	5572 16 15 2	5572 16 15 3	5572 16 15 4
MF	5572 16 15 1	5572 16 15 2	5572 16 15 3	5572 16 15 4
MF	5572 16 15 1	5572 16 15 2	5572 16 15 3	5572 16 15 4
MR	5572 16 20 1	5572 16 20 2	5572 16 20 3	5572 16 20 4
MR	5572 16 20 1	5572 16 20 2	5572 16 20 3	5572 16 20 4
MF	5572 18 15 2	5572 18 15 2	5572 18 15 3	5572 18 15 4
MF	5572 18 15 2	5572 18 15 2	5572 18 15 3	5572 18 15 4
MF	5572 18 15 1	5572 18 15 2	5572 18 15 3	5572 18 15 4

(MR = Metric Regulation Thread, MF = Metric Fine Thread)

(A,B,C,D = corresponding individual tools)

Mebux® Threaded Bushing, Stainl.Steel



- Material: 1.4305 (X8CrNiS18-9), austenitic stainless chrome-nickel steel with sulphur additive
- Can be used wherever contact with food is possible

Article No	Article Description	QTY
5572 6 1094 5	PCK(5)THR.BUSH.M 6X1.0 X 9.4GV	1
5572 6 10120 5	PCK(5)THR.BUSH.M 6X1.0 X12.0GV	1
5572 8125117 5	PCK(5)THR.BUSH.M 6X1.25X11.7GV	1
5572 8125162 5	PCK(5)THR.BUSH.M 8X1.25X16.2GV	1
5572 10 151405	PCK(5)THR.BUSH.M10X1.5 X14.0GV	1
5572 10 152005	PCK(5)THR.BUSH.M10X1.5 X20.0GV	1

(Thread-Ø x pitch x length)

Technical Data

Thread	Thread	A Insertion tool	B Tap schneider	C HSS drill bit
MR	MR	5572 6 10 1	5572 6 10 2	5572 6 10 3
MR	MR	5572 6 10 1	5572 6 10 2	5572 6 10 3
MR	MR	5572 8 125 1	5572 8 125 2	5572 8 125 3
MR	MR	5572 8 125 1	5572 8 125 2	5572 8 125 3
MR	MR	5572 10 15 1	5572 10 15 2	5572 10 3
MR	MR	5572 10 15 1	5572 10 15 2	5572 10 3

(MR = Metric Regulation Thread)

(A,B,C,D = corresponding individual tools)

Mebux® Single Tools

Artikel-Nr. 5572 10 3, 5572 10 4 und 5572 11 4

• für die Anwendung bei mehreren Gewindesteigungen



A = Screw-in tool



B = Tap drill



C = drill bit



D = Seat burr, tap borer

Article No	Article Description	QTY
5572 4 07 1	INSERTION TOOL M4X0.7	1
5572 4 07 2	TAP M 4X0.7	1
5572 4 07 3	DRILL BIT M 4X0.7	1
5572 4 07 4	FIT MILLING CUTTER M 4X0.7	1
5572 5 08 1	INSERTION TOOL M5X0.8	1
5572 5 08 2	TAP M 5X0.8	1
5572 5 08 3	DRILL BIT M 5X0.8	1
5572 5 08 4	FIT MILLING CUTTER M 5X0.8	1
5572 6 10 1	INSERTION TOOLS M6X1.0	1
5572 6 10 2	TAP M 6X1.0	1
5572 6 10 3	DRILL BIT M 6X1.0	1
5572 6 10 4	FIT MILLING CUTTER M 6X1.0	1
5572 7 10 1	INSERTION TOOL M 7X1.0	1
5572 7 10 2	TAP M 7X1.0	1
5572 7 10 3	DRILL BIT M 7X1.0	1
5572 7 10 4	FIT MILLING CUTTER M7X1.0	1
5572 8 125 1	INSERTION TOOL M 8X1.25	1
5572 8 125 2	TAP M 8X1.25	1
5572 8 125 3	DRILL BIT M 8X1.25	1
5572 8 125 4	FIT MILLING CUTTER M 8X1.25	1
5572 9 125 1	INSERTION TOOL M 9X1.25	1
5572 9 125 2	TAP M 9X1.25	1
5572 9 125 3	DRILL BIT M 9X1.25	1
5572 9 125 4	FIT MILLING CUTTER M 9X1.25	1
5572 10 10 1	INSERTION TOOL M10X1.0	1
5572 10 10 2	TAP M10X1.0	1
5572 10 125 1	INSERTION TOOLS M10X1.25	1
5572 10 125 2	TAP M10X1.25	1
5572 10 15 1	INSERTION TOOL M10X1.5	1
5572 10 15 2	TAP M10X1.5	1
5572 10 3	DRILL BIT M10X1.0/1.25/1.5	1
5572 10 4	FIT MILL.CUTT.M10X1.0/1.25/1.5	1

Article No	Article Description	QTY
5572 11 125 1	INSERTION TOOL M11X1.25	1
5572 11 125 2	TAP M11X1.25	1
5572 11 125 3	DRILL BIT M11X1.25	1
5572 11 15 1	INSERTION TOOL M11X1.5	1
5572 11 15 2	TAP M11X1.5	1
5572 11 15 3	DRILL BIT M11X1.5	1
5572 11 4	SHANK MILL.CUTT.M11X1.25/1.5	1
5572 12 15 1	INSERTION TOOL M12X1.5	1
5572 12 15 2	TAP M12X1.5	1
5572 12 15 3	DRILL BIT M12X1.5	1
5572 12 15 4	FIT MILLING CUTTER M12X1.5	1
5572 12 175 1	INSERTION TOOL M12X1.75	1
5572 12 175 2	TAP M12X1.75	1
5572 12 175 3	DRILL BIT M12X1.75	1
5572 12 175 4	FIT MILLING CUTTER M12X1.75	1
5572 14 15 1	INSERTION TOOL M14X1.5	1
5572 14 15 2	TAP M14X1.5	1
5572 14 15 3	DRILL BIT M14X1.5	1
5572 14 15 4	FIT MILLING CUTTER M14X1.5	1
5572 16 15 1	INSERTION TOOL M16X1.5	1
5572 16 15 2	TAP M16X1.5	1
5572 16 15 3	DRILL BIT M16X1.5	1
5572 16 15 4	SHANK MILLING CUTTER M16X1.5	1
5572 16 20 1	INSERTION TOOL M16X2.0	1
5572 16 20 2	TAP M16X2.0	1
5572 16 20 3	DRILL BIT M16X2.0	1
5572 16 20 4	SHANK MILLING CUTTER M16X2.0	1
5572 18 15 1	INSERTION TOOL M18X1.5	1
5572 18 15 2	TAP M18X1.5	1
5572 18 15 3	DRILL BIT M18X1.5	1
5572 18 15 4	SHANK MILLING CUTTER M18X1.5	1

Mebux® spark plug threads

Applications

	Step 1: Insert the tap (B) up to the gradation in the existing thread
	Step 2: Use the socket wrench (D) and the hinge pin (E) to insert the tap further until the thread is cut all the way through. (The outer thread of the screw tap protrudes 5 mm out of the workpiece).
	Step 3: The screw tap (B) remains in the workpiece. Fit the seat burr (C) onto the screw tap and use the socket wrench to turn it further until the seat is completely milled out.
	Step 4: Blow out any chips. Lubricate the Mebux® screw-in tool (A) and screw the bushing onto the end manually. Screw the threaded bushing into the thread using the screw-in tool and the socket wrench.
	Step 5: As soon as the Mebux® comes up against the insert collar, the screw-in resistance increases perceptibly due to the shaping of the last thread turns of the threaded bushing. The repair is completed as soon as the insertion process becomes noticeably easier.
	Step 6: The Mebux® threaded bushing is now resting compression-tight and secure from unscrewing in the workpiece.



A =
Screw-in tool



B =
Tap



C =
Seat burr



D =
Socket wrench



E =
Hinge pin

Mebux® Assort.for spark plug thread,copper-pl.

- Thin-walled, solid steel bushing, copper-plated
- metric fine thread M14 x 1.25
- 30-piece set in plastic case



Contents

Article No.	Article Description	Quantity
4415 14 47 1	EMPTY CASE SIZE A	1
5572 14 1251103	PCK(5)GE.BU ZK M14X1,25X11,0CU	1
5572 14 1251503	PCK(5)GE.BU ZK M14X1,25X15,0CU	1
5572 14 1251683	PCK(5)GE.BU ZK M14X1,25X16,8CU	1
5572 14 12580 3	PCK(5)GE.BU ZK M14X1,25X 8,0CU	1
5572 14 12594 3	PCK(5)GE.BU ZK M14X1,25X 9,4CU	1
5572 14 125 1 3	EINDREHWERKZEUG ZK M14X1,25	1
5572 14 125 2 3	GEWI-SCHNEIDER ZK M14X1,25	1
5572 14 125 4 3	SITZFRÄSER ZK M14X1,25	1
5572 14 125 5 3	STECKSCHLÜSSEL ZK M14X1,25	1
5572 14 125 6 3	DREHSTIFT STECKS. ZK M14X1,25	1

Article No	Article Description	QTY
5572 30 3	ASSORT.MEBUX SP.PL.C.PL.30-PCE	1
9026 643	INDV.INSERT MEBUX PL.C.P.30PCE	1

Your Advantage / Benefit

- Suitable for high constant load and frequent screwing and unscrewing
- Copper-plated for good thermal conductivity
- Pressure-tight with water, oils, other liquids and gases
- Compression-tight and secure from unscrewing, no gluing required
- The existing collar means additional fixing is not required

Application

- for replacing a spark plug thread with gasket seat



Related Products

- Thread cutting fluid
Art.-No. 6580 5851



- Tap wrench
Art.-No. 5560 2



Mebux® Assortment for sparking plug thread, petrol

- Thin-walled, solid steel bushing, copper-plated
- 25-piece set in plastic case

Art.-No. 5572 10 25 3:

- Fine-pitch metric thread M10 x 1.0
- Fine-pitch metric thread M12 x 1.25

Contents Art.-No. 5572 10 25 3:

Article No.	Article Description	Quantity
4415 14 47 1	EMPTY CASE SIZE A	1
5572 10 10150 3	PCK(5)TH.SP.PL.M10X1.0X15.0 CU	2
5572 10 1090 3	PCK(5)TH.SP.PL.M10X1.0X 9.0 CU	2
5572 10 10 1 3	INSERTION TOOL SP.PL.M10X1	1
5572 10 10 2 3	TAP SPARK PLUG M10X1	1
5572 10 10 4 3	FIT MILLING CUTTER SP.PL.M10X1	1
5572 10 10 5 3	SOCKET WRENCH SP.PL.M10X1	1
5572 10 10 6 3	SOCK.WR.HINGE PIN SP.PL.M10X1	1



Contents Art.-No. 5572 12 25 3:

Article No.	Article Description	Quantity
4415 14 47 1	EMPTY CASE SIZE A	1
5572 12 1251503	PCK(5)TH.SP.PL.M12X1.25X15.0CU	2
5572 12 12590 3	PCK(5)TH.SP.PL.M12X1.25X 9.0CU	2
5572 12 125 1 3	INSERTION TOOL SP.PL.M12X1.25	1
5572 12 125 2 3	TAP SPARK PLUG M12X1.25	1
5572 12 125 4 3	FIT MILL.CUTT.SP.PL.M12X1.25	1
5572 12 125 5 3	SOCK.WR.SP.PLUG M12X1.25	1
5572 12 125 6 3	S.WR.HINGE PIN SP.P.M12X1.25	1

Article No.	Article Description	QTY
5572 10 25 3	ASSORT.F.SPRAK.PL.THR.M10 25P	1
5572 12 25 3	ASSORT.F.SPRAK.PL.THR.M12 25P	1
9026 643	INDV.INSERT MEBUX PL.C.P.30PCE	1

Mebux® for spark plug thread,copper-plated



Technical Data

Art-No.	Thread	A Insertion tool	B Tap	C Fit milling cutter	D Socket wrench	E Hinge pin
5572 10 1090 3	MF	5572 10 10 1 3	5572 10 10 2 3	5572 10 10 4 3	5572 10 10 5 3	5572 10 10 6 3
5572 10 10150 3	MF	5572 10 10 1 3	5572 10 10 2 3	5572 10 10 4 3	5572 10 10 5 3	5572 10 10 6 3
5572 12 12590 3	MF	5572 12 125 1 3	5572 12 125 2 3	5572 12 125 4 3	5572 12 125 5 3	5572 12 125 6 3
5572 12 125150 3	MF	5572 12 125 1 3	5572 12 125 2 3	5572 12 125 4 3	5572 12 125 5 3	5572 12 125 6 3
5572 14 12570 3	MF	5572 14 125 1 3	5572 14 125 2 3	5572 14 125 4 3	5572 14 125 5 3	5572 14 125 6 3
5572 14 12580 3	MF	5572 14 125 1 3	5572 14 125 2 3	5572 14 125 4 3	5572 14 125 5 3	5572 14 125 6 3
5572 14 12594 3	MF	5572 14 125 1 3	5572 14 125 2 3	5572 14 125 4 3	5572 14 125 5 3	5572 14 125 6 3
5572 14 1251103	MF	5572 14 125 1 3	5572 14 125 2 3	5572 14 125 4 3	5572 14 125 5 3	5572 14 125 6 3
5572 14 1251503	MF	5572 14 125 1 3	5572 14 125 2 3	5572 14 125 4 3	5572 14 125 5 3	5572 14 125 6 3
5572 14 1251683	MF	5572 14 125 1 3	5572 14 125 2 3	5572 14 125 4 3	5572 14 125 5 3	5572 14 125 6 3

(MF = Metric fine thread)

(A,B,C,D, E = corresponding individual tools)

Article No.	Article Description	QTY
5572 10 1090 3	PCK(5)TH.SP.PL.M10X1.0X 9.0 CU	1
5572 10 10150 3	PCK(5)TH.SP.PL.M10X1.0X15.0 CU	1
5572 12 12590 3	PCK(5)TH.SP.PL.M12X1.25X 9.0CU	1
5572 12 1251503	PCK(5)TH.SP.PL.M12X1.25X15.0CU	1
5572 14 12570 3	PCK(5)TH.SP.PL.M14X1.25X 7.0CU	1

(Thread-Ø x pitch x length)

Article No.	Article Description	QTY
5572 14 12580 3	PCK(5)TH.SP.PL.M14X1.25X 8.0CU	1
5572 14 12594 3	PCK(5)TH.SP.PL.M14X1.25X 9.4CU	1
5572 14 1251103	PCK(5)TH.SP.PL.M14X1.25X11.0CU	1
5572 14 1251503	PCK(5)TH.SP.PL.M14X1.25X15.0CU	1
5572 14 1251683	PCK(5)TH.SP.PL.M14X1.25X16.8CU	1

(Thread-Ø x pitch x length)

Mebux® Individual tools for spark pl.thread



A= Screw-in tool



B = Tap drill



C= Seat burr



D=Socket wrench



E = Tommy bar

Article No	Article Description	QTY
5572 10 10 1 3	INSERTION TOOL SP.PL.M10X1	1
5572 10 10 2 3	TAP SPARK PLUG M10X1	1
5572 10 10 4 3	FIT MILLING CUTTER SP.PL.M10X1	1
5572 10 10 5 3	SOCKET WRENCH SP.PL.M10X1	1
5572 10 10 6 3	SOCK.WR.HINGE PIN SP.PL.M10X1	1
5572 12 125 1 3	INSERTION TOOL SP.PL.M12X1.25	1
5572 12 125 2 3	TAP SPARK PLUG M12X1.25	1
5572 12 125 4 3	FIT MILL.CUTT.SP.PL.M12X1.25	1
5572 12 125 5 3	SOCK.WR.SP.PLUG M12X1.25	1
5572 12 125 6 3	S.WR.HINGE PIN SP.P.M12X1.25	1
5572 14 125 1 3	INSERTION TOOL SP.PL.M14X1.25	1
5572 14 125 2 3	TAP SPARK PLUG M14X1.25	1
5572 14 125 4 3	MILLING CUTTER SP.PL.M14X1.25	1
5572 14 125 5 3	SOCK.WR.SPARK PLUG M14X1.25	1
5572 14 125 6 3	SOCK.WR.HINGE PIN SPM14X1.25	1

Mebux® Assortment for oil drain plug thread, gv

- Thin-walled, solid steel inserts ,galvanised
- Fine-pitch metric thread M14x1.5
- 30-pce in plastic case



Contents

Article No.	Article Description	Quantity
4415 14 47 1	EMPTY CASE SIZE A	1
5572 14 15 1	INSERTION TOOL M14X1.5	1
5572 14 15 2	TAP M14X1.5	1
5572 14 15 3	DRILL BIT M14X1.5	1
5572 14 15 4	FIT MILLING CUTTER M14X1.5	1
5572 14 15 7	GUIDE SLEEVE M14X1.5	1
5572 14 15 65	PCK(5)THR.BUSH.M14X1.5 X 6.5GV	1
5572 14 15 93	PCK(5)THR.BUSH.M14X1.5 X 9.3GV	1
5572 14 15 128	PCK(5)THR.BUSH.M14X1.5 X12.8GV	1
5572 14 15 160	PCK(5)THR.BUSH.M14X1.5 X16.0GV	1
5572 14 15 260	PCK(5)THR.BUSH.M14X1.5 X26.0GV	1

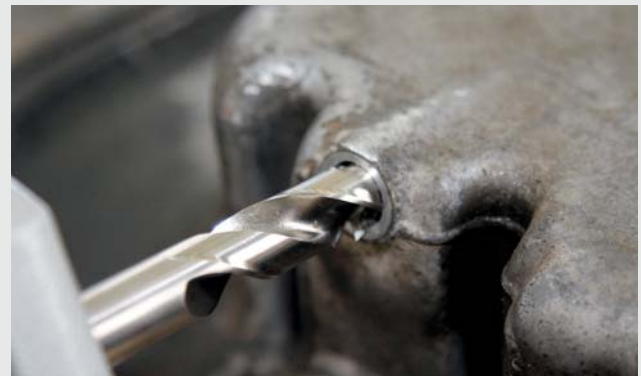
Article No	Article Description	QTY
5572 30	SORT.MEBUX ÖLABLASSGEW.VZ 30TG	1
9026 642	W-EINL.MEBUX ÖLABLASSGEW. 30TLG	1

Your Advantage / Benefit

- Suitable for heavy continuous loading and frequent screwing in and unscrewing
- Pressure tight to water, oil, other liquids and gases
- Will not unscrew, vibration resistant, no bonding required
- No additional fixing is required due to existing bond

Application

- For repairing oil drain plug threads



Related Products

- Thread cutting fluid
Art.-No. 6580 5851



- Tap wrench
Art.-No. 5560 2



Mebux® Individual tools for oil drain scr.thread



Screw-in tool



Tap drill



drill bit



Seat burr



Guide sleeve

Article No.	Article Description	QTY
5572 14 15 1	INSERTION TOOL M14X1.5	1
5572 14 15 2	TAP M14X1.5	1
5572 14 15 3	DRILL BIT M14X1.5	1
5572 14 15 4	FIT MILLING CUTTER M14X1.5	1
5572 14 15 7	GUIDE SLEEVE M14X1.5	1

Thread Repair-Assortment Recoil M5-M12

- 58-part in a plastic case
- Without twist drill (see AGR 5501)

Technical Data

Inserts	Length mm	Drill-Ø mm
M5 x 0.8	7.5	5.2
M6 x 1	9	6.3
M8 x 1.25	12	8.3
M10 x 1.50	15	10.4
M12 x 1.75	18	12.5

Article No.	Article Description	QTY
5570 1	THREAD REPAIR-ASSORTM. M5-M12	1

- 25x thread inserts M5/M6/M8/M10
- 10x thread inserts M12
- 1x tap drill for M5/M6/M8/M10/M12
- 1x drill-in tool for M5/M6/M8/M10/M12
- 1x pintle breaker for M5/M6/M8/M10/M12
- 1x core drill for M5/M6/M8/M10/M12



Thread Repair-Set Recoil

- In a plastic insert
- Pintle breaker (available in sets up to M8)

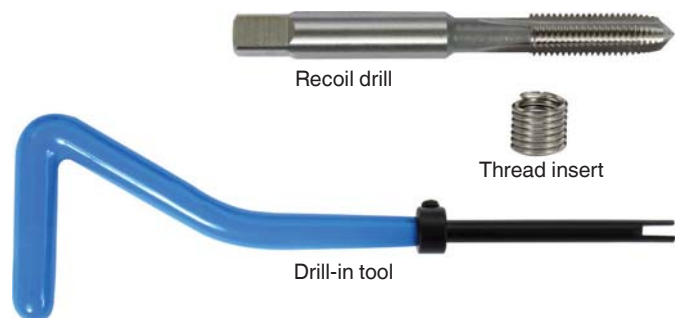
Article No.	Article Description	QTY
5570 5	THREAD REPAIR SET M 5	1
5570 6	THREAD REPAIR SET M 6	1
5570 8	THREAD REPAIR SET M 8	1
5570 10	THREAD REPAIR SET M 10	1
5570 12	THREAD REPAIR SET M 12	1

- 1x tap drill
- 1x drill-in tool
- 10x thread inserts
- M12 with 5 thread inserts



Thread Repair Recoil - Single Parts

Article No.	Article Description	QTY
5570 5 1	RECOIL-TAP DRILL HSS FOR M 5	1
5570 6 1	RECOIL-TAP DRILL HSS FOR M 6	1
5570 8 1	RECOIL-TAP DRILL HSS FOR M 8	1
5570 10 1	RECOIL-TAP DRILL HSS FOR M10	1
5570 12 1	RECOIL-TAP DRILL HSS FOR M12	1
5570 5 2	BAG(10)THREAD INSERTS M5/7,5MM	1
5570 6 2	BAG(10)THREAD INSERTS M6/9MM	1
5570 8 2	BAG(10)THREAD INSERTS M8/12MM	1
5570 10 2	BAG(10)THREAD INSERTS M10/15MM	1
5570 12 2	BAG(10)THREAD INSERTS M12/18MM	1
5570 5 3	DRILL-IN TOOL FOR M 5	1
5570 6 3	DRILL-IN TOOL FOR M 6	1
5570 8 3	DRILL-IN TOOL FOR M 8	1
5570 10 3	DRILL-IN TOOL FOR M 10	1
5570 12 3	DRILL-IN TOOL FOR M 12	1



Thread Repair-Assortment for Sparking Plugs

- 14-piece in a metal box



Article No.	Article Description	QTY
5570 14 125	THR.REP.SET SPARK.PLUGM14X1,25	1

Contents:

- 1x tap drill
- 1x drill-in tool
- 5x thread inserts M14 x 1.25, height: 8.4 mm
- 5x thread inserts M14 x 1.25, height: 16.4 mm
- 5x thread inserts M14 x 1.25, height: 12.4 mm

Individual Parts for Sparking Plug Thread Repair



Article No.	Article Description	QTY
5570 14 3	DRILL-IN TOOL FOR M14	1
5570 14 21	BAG(10)THR.INS.M14X1.25/ 8.4MM	1
5570 14 22	BAG(10)THR.INS.M14X1.25/16.4MM	1
5570 14 23	BAG(10)THR.INS.M14X1.25/12.4MM	1
5570 14 125 1	RECOIL-TH.DR.SPARK.PL.M14X1,25	1



Spark plugs thread repair use

- self-cutting thread repair insert with cutting bores for worn spark plugs - counter thread in light metal cylinder heads
- it is recommended to carry out the repair on a disassembled cylinder head, when mounted it is strictly necessary to remove the chips
- complies with End-of-Life Vehicle Directive 2000 / 53 / EG and RoHS 2002 / 95 / EG
- **Material:** case hardened steel, chrome-plated blue passivated
- **suitable insertion tool:** Art. no. 5571 3 14 1



Technical Data

art.-no.	internal-thread	increase internal-thread	DIN internal-thread	Ø external-thread	increase external-thread	length	Ø drill hole
5571 3 14 9	M14	1.25	72502	17.7 mm	1.25	9 mm	17.0 mm
5571 3 14 15	M14	1.25	72502	17.7 mm	1.25	15 mm	17.0 mm

Article No.	Article Description	QTY
5571 3 14 9	SPARK PL.THR.REP.M14X1.25X 9	4
5571 3 14 15	SPARK PL.THR.REP.M14X1.25X15	4

Spark plugs thread repair insertion tool

- Suitable for spark plugs thread repair use
Art.-No. 5571 3 14 9 and Art.-No. 5571 3 14 15



Technical Data

Art.-no.	SW hexagon	length
5571 3 14 1	22	97 mm

Article No.	Article Description	QTY
5571 3 14 1	SPARK PL.THR.REP INS.TOOL M14	1

Thread repair cutting bushings

- self-cutting thread bushings with cutting slot for the manufacture and repair of screw connections
- highly resilient, wear-resistant and vibration-free in materials
- particularly suitable for steel (up to 630 N / min tensile strength), aluminium, aluminium and magnesium alloys, cast iron, bronze, bronze, duroplast
- it is recommended to repair the removed work piece , debris can be removed from underneath
- highest pull-out resistance
- smaller sizes are possible and therefore saves on material and weight
- it is recommended to counter-bore in order to prevent warping and to make the cutting easier
- insensitive to small blow holes
- complies with the End Of Life Directive 2000/ 53 / EG and RoHS 2002 / 95 / EG

material:

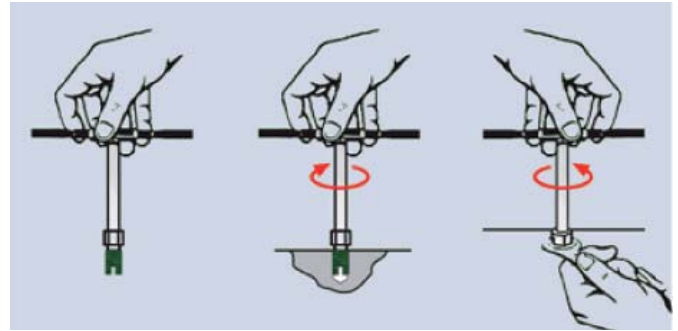
- case hardened steel, chrome-plated blue passivated

applications;

- car, industry, equipment and appliance construction, etc.



Hand assembly with insertion tool and tap wrench:



Technical Data

art. no.	internal-thread	Ø external-thread	pitch external thread	length	min drilling hole depth with blind holes	mind work-piece thickness	suitable hand-insertion tool
5571 4	M4	6.5 mm	0.75	8 mm	10 mm	8 mm	art. no. 5571 4 1
5571 5	M5	8.0 mm	1	10 mm	13 mm	10 mm	art. no. 5571 5 1
5571 6	M6	10.0 mm	1.5	14 mm	17 mm	14 mm	art. no. 5571 6 1
5571 8	M8	12.0 mm	1.5	15 mm	18 mm	15 mm	art. no. 5571 8 1
5571 10	M10	14.0 mm	1.5	18 mm	22 mm	18 mm	art. no. 5571 10 1
5571 12	M12	16.0 mm	1.5	22 mm	26 mm	22 mm	art. no. 5571 12 1
5571 14	M14	18.0 mm	1.5	24 mm	28 mm	24 mm	art. no. 5571 14 1

Article No.	Article Description	QTY
5571 4	THREAD REP.CUTT.BUSHING M 4	20
5571 5	THREAD REP.CUTT.BUSHING M 5	20
5571 6	THREAD REP.CUTT.BUSHING M 6	20
5571 8	THREAD REP.CUTT.BUSHING M 8	20

Article No.	Article Description	QTY
5571 10	THREAD REP.CUTT.BUSHING M 10	10
5571 12	THREAD REP.CUTT.BUSHING M 12	10
5571 14	THREAD REP.CUTT.BUSHING M 14	2

Thread repair insertion tool

- for installing thread repair cutting bushings



Technical Data

art. no.	length	AF square	AF shoulder piece	suitable cutting bushing
5571 4 1	60 mm	5	7	art. no. 5571 4
5571 5 1	75 mm	8	13	art. no. 5571 5
5571 6 1	75 mm	8	13	art. no. 5571 6
5571 8 1	75 mm	8	13	art. no. 5571 8
5571 10 1	95 mm	12.5	19	art. no. 5571 10
5571 12 1	95 mm	12.5	19	art. no. 5571 12
5571 14 1	95 mm	12.5	19	art. no. 5571 14

Article No.	Article Description	QTY
5571 4 1	THREAD REP.INSERT.TOOL F.M 4	1
5571 5 1	THREAD REP.INSERT.TOOL F.M 5	1
5571 6 1	THREAD REP.INSERT.TOOL F.M 6	1
5571 8 1	THREAD REP.INSERT.TOOL F.M 8	1

Article No.	Article Description	QTY
5571 10 1	THREAD REP.INSERT.TOOL F.M 10	1
5571 12 1	THREAD REP.INSERT.TOOL F.M 12	1
5571 14 1	THREAD REP.INSERT.TOOL F.M 14	1

Mebux® Threaded Bushing, galvanized



			Technical Data				
Artikel-Nr.	Article Description	QTY	Thread	A Insertion tool	B Tap	C HSS Drill bit	D Fit milling cutter
5572 4 07 60	PCK(5)THR.BUSH.M4X0.7X6.0VZ	1	MR	5572 4 07 1	5572 4 07 2	5572 4 07 3	5572 4 07 4
5572 4 07 80	PCK(5)THR.BUSH.M4X0.7X8.0VZ	1	MR	5572 4 07 1	5572 4 07 2	5572 4 07 3	5572 4 07 4
5572 5 08 76	PCK(5)THREAD BUSH.M5X0.8X7.6GV	1	MR	5572 5 08 1	5572 5 08 2	5572 5 08 3	5572 5 08 4
5572 5 08 100	PCK(5)THR.BUSH.M5X0.8X 10.0 GV	1	MR	5572 5 08 1	5572 5 08 2	5572 5 08 3	5572 5 08 4
5572 6 10 94	PCK(5)THR.BU.M6X1.0 X 9.4 GV	1	MR	5572 6 10 1	5572 6 10 2	5572 6 10 3	5572 6 10 4
5572 6 10 120	PCK(5)THR.BU.M6X1.0 X12.0 GV	1	MR	5572 6 10 1	5572 6 10 2	5572 6 10 3	5572 6 10 4
5572 7 10 100	PCK(5)THR. BUSH.M7X1.0X10.0GV	1	MF	5572 7 10 1	5572 7 10 2	5572 7 10 3	5572 7 10 4
5572 7 10 140	PCK(5)THR. BUSH.M7X1.0X14.0GV	1	MF	5572 7 10 1	5572 7 10 2	5572 7 10 3	5572 7 10 4
5572 8 125 117	PCK(5)THR.BU.M8X1.25X11.7 GV	1	MR	5572 8 125 1	5572 8 125 2	5572 8 125 3	5572 8 125 4
5572 8 125 162	PCK(5)THR.BU.M8X1.25X16.2 GV	1	MR	5572 8 125 1	5572 8 125 2	5572 8 125 3	5572 8 125 4
5572 9 125 130	PCK(5)THR. BUSH.M9X1.25X13.0GV	1	MF	5572 9 125 1	5572 9 125 2	5572 9 125 3	5572 9 125 4
5572 9 125 180	PCK(5)THR. BUSH.M9X1.25X18.0GV	1	MF	5572 9 125 1	5572 9 125 2	5572 9 125 3	5572 9 125 4
5572 10 10150	PCK(5)THR.BUSH.M10X1.0 X15.0GV	1	MF	5572 10 10 1	5572 10 10 2	5572 10 3	5572 10 4
5572 10 125 150	PCK(5)THR.BUSH.M10X1.25X15.0GV	1	MF	5572 10 125 1	5572 10 125 2	5572 10 3	5572 10 4
5572 10 125 200	PCK(5)THR.BUSH.M10X1.25X20.0GV	1	MF	5572 10 125 1	5572 10 125 2	5572 10 3	5572 10 4
5572 10 15 140	PCK(5)THR.BU.M10X1.5X14.0 GV	1	MR	5572 10 15 1	5572 10 15 2	5572 10 3	5572 10 4
5572 10 15 200	PCK(5)THR.BU.M10X1.5X20.0 GV	1	MR	5572 10 15 1	5572 10 15 2	5572 10 3	5572 10 4
5572 11 125 220	PCK(5)THR.BUSH.M11X1.25X22.0GV	1	MF	5572 11 125 1	5572 11 125 2	5572 11 125 3	5572 11 4
5572 11 15 160	PCK(5)THR.BUSH.M11X1.5 X16.0GV	1	MF	5572 11 15 1	5572 11 15 2	5572 11 15 3	5572 11 4
5572 11 15 220	PCK(5)THR.BUSH.M11X1.5 X22.0GV	1	MF	5572 11 15 1	5572 11 15 2	5572 11 15 3	5572 11 4
5572 12 15 93	PCK(5)THR.BUSH.M12X1.5 X 9.3GV	1	MF	5572 12 15 1	5572 12 15 2	5572 12 15 3	5572 12 15 4
5572 12 15 163	PCK(5)THR.BUSH.M12X1.5 X16.3GV	1	MF	5572 12 15 1	5572 12 15 2	5572 12 15 3	5572 12 15 4
5572 12 15 240	PCK(5)THR.BUSH.M12X1.5 X24.0GV	1	MF	5572 12 15 1	5572 12 15 2	5572 12 15 3	5572 12 15 4
5572 12 175 162	PCK(5)THR.BUSH.M12X1.75X16.2GV	1	MR	5572 12 175 1	5572 12 175 2	5572 12 175 3	5572 12 175 4
5572 12 175 240	PCK(5)THR.BUSH.M12X1.75X24.0GV	1	MR	5572 12 175 1	5572 12 175 2	5572 12 175 3	5572 12 175 4
5572 14 15 65	PCK(5)THR.BUSH.M14X1.5 X 6.5GV	1	MF	5572 14 15 1	5572 14 15 2	5572 14 15 3	5572 14 15 4
5572 14 15 93	PCK(5)THR.BUSH.M14X1.5 X 9.3GV	1	MF	5572 14 15 1	5572 14 15 2	5572 14 15 3	5572 14 15 4
5572 14 15 128	PCK(5)THR.BUSH.M14X1.5 X12.8GV	1	MF	5572 14 15 1	5572 14 15 2	5572 14 15 3	5572 14 15 4
5572 14 15 160	PCK(5)THR.BUSH.M14X1.5 X16.0GV	1	MF	5572 14 15 1	5572 14 15 2	5572 14 15 3	5572 14 15 4
5572 14 15 260	PCK(5)THR.BUSH.M14X1.5 X26.0GV	1	MF	5572 14 15 1	5572 14 15 2	5572 14 15 3	5572 14 15 4
5572 16 15 70	PCK(5)THR.BUSH.M16X1.5 X 7.0GV	1	MF	5572 16 15 1	5572 16 15 2	5572 16 15 3	5572 16 15 4
5572 16 15 127	PCK(5)THR.BUSH.M16X1.5 X12.7GV	1	MF	5572 16 15 1	5572 16 15 2	5572 16 15 3	5572 16 15 4
5572 16 15 240	PCK(5)THR.BUSH.M16X1.5 X24.0GV	1	MF	5572 16 15 1	5572 16 15 2	5572 16 15 3	5572 16 15 4
5572 16 20 240	PCK(5)THR.BUSH.M16X2.0 X24.0GV	1	MR	5572 16 20 1	5572 16 20 2	5572 16 20 3	5572 16 20 4
5572 16 20 320	PCK(5)THR.BUSH.M16X2.0 X32.0GV	1	MR	5572 16 20 1	5572 16 20 2	5572 16 20 3	5572 16 20 4
5572 18 15 100	PCK(5)THR.BUSH.M18X1.5 X10.0GV	1	MF	5572 18 15 2	5572 18 15 2	5572 18 15 3	5572 18 15 4
5572 18 15 183	PCK(5)THR.BUSH.M18X1.5 X18.3GV	1	MF	5572 18 15 2	5572 18 15 2	5572 18 15 3	5572 18 15 4
5572 18 15 270	PCK(5)THR.BUSH.M18X1.5 X27.0GV	1	MF	5572 18 15 1	5572 18 15 2	5572 18 15 3	5572 18 15 4

(Thread-Ø x pitch x length)

(MR = Metric Regulation Thread, MF = Metric Fine Thread)
(A,B,C,D = corresponding individual tools)

Injectors / sealing faces / cleaning set - 11 pce

- Professional injectors/sealing faces/cleaning set for diesel engines in the passenger car and commercial vehicle sector
- For the cleaning and treatment of the sealing face between the injector and cylinder head



Contents:

Article No.	Article Description	Quantity
4156 25	HEX-PLUS ALLEN WRENCH 2,5	1
4415 14 47 1	EMPTY CASE SIZE A	1
4961 100 1	FIR.HANDLE T-GRIP 19MM	1
4961 100 2	GUIDE PIN 19MM HEX HEAD	1
4961 100 3	UNI-INJECTOR-CUTTER 17X17MM	1
4961 100 4	UNI-INJECTOR-CUTTER 15X19MM	1
4961 100 5	UNI-INJECTOR-CUTTER 17X19MM	1
4961 100 6	ANGLED CUTTER 17X21MM	1
4961 100 7	ANGLED CUTTER 17X17MM	1
4961 100 8	CUTTER INJECTOR CLEANER PIN	1
5868 250 19	CYLINDR.STEEL LXØ=250MMX 8MM	1
5868 250 8	CYLINDR.STEEL LXØ=250MMX19MM	1

Article No.	Article Description	QTY
4961 100	INJECT.SEAL.CLEANING SET 11PCE	1

*Note: A compressed air adapter for glow plug holes is recommended for the cleaning of the injector sealing face on the engine block. This makes it possible to blow contaminants out of the injector channel during the application. A multi-use grease (Art.-No. 6550 5780) is alternatively used to pick up dirt particles and chips.

Your Advantage / Benefit

- Suitable for usage on all common diesel engines
- Professional equipping for optimal treatment of the sealing faces
- Lower costs thanks to time-saving repair and maintenance
- Precise application due to cutters controlled in the shaft by a guide pin

Application

- Five differently shaped milling inserts for cleaning the engine side of the sealing faces
- One flat milling insert for cleaning the injector side of the sealing face
- Socket inserted in the T-handle with integrated magnets for optimal handling of the guide pin
- Two round steel brushes for post-cleaning of the injector channels
- The set is suitable for processing CDI, TDI, HDI, DCI engines, etc.



Related Products

- **Injector Cleaning Agent R579**
Art.-No. 6110 1040



- **Fine knitted gloves Duo-Grip**
Art.-No. 5405 117 7-10



- **CA-Adaptor for plug drilling**



M8 x 1

Art.-No. 4911 1383 118



M10 x 1,25

Art.-No. 4911 0186 1631



M10 x 1

Art.-No. 4911 0369 55 2

Pin Punch, 175 mm

- Long version for safety locking pins of disc brake linings
- Shaft strength: 10 mm

Art. No. 4708 36 175:

- Ø 6 mm with pin
- Ø 3 x L 7 mm for Opel

Article No.	Article Description	QTY
4708 4 175	PIN PUNCH FOR BRAKE 4X175MM	1 z
4708 36 175	PIN PUNCH WITH PIN 3/6X175	1 z
(Ø mm/L mm)		



Brake Caliper File

- B 14 mm rough
- One-sided bevelled toothing
- Removes brake dust, rust and soiling out of the brake-caliper stack

Article No.	Article Description	QTY
4940 2	BRAKE CALIPER FILE	1



Brake Calliper File, Square FORCH 5*

- With plastic / rubber handle
- Width: 10 mm, stroke length: 130 mm
- Square, diagonally toothed, coarse
- Removes brake dust, rust and dirt from the brake calliper shaft

Article No.	Article Description	QTY
4940 8	BRAKE CALLIPER FILE SQUARE 5*	1



Brake Caliper Brushes

- With a plastic handle

Art. No. 4940 1:

- for the cleaning of brake calipers made of cast steel

Art. No. 4940 5:

- for the cleaning of brake calipers made of aluminium

Article No.	Article Description	QTY
4940 1	BRAKE CALIPER BRUSH STEEL	1 z
4940 5	BRAKE CALIPER BRUSH BRASS	1 z



Brake-Cable Spring Pliers

- For parking brakes
- Relaxes the return spring for the mounting/demounting of the brake cable

Article No.	Article Description	QTY
4940 15	BRAKE-CABLE SPRING PLIERS	1



Brake-Piston Resetting Tool

- For disc-brake systems
- For repressing of the brake discs in fixed and floating brake calipers

Article No.	Article Description	QTY
4940 25	BRAKE-PISTON RESETTING TOOL	1



Brake Spring Pliers

- For drum brakes
- With special moulding and support castellation
- Suitable for riveted and pasted brake pads

Article No.	Article Description	QTY
4940 10	BRAKE SPRING PLIERS 330MM	1
4940 11	BRAKE SPRING PLIERS 480MM	1

(L mm)



Brake Spring Pliers for Trucks

- Heavy version with replaceable spring hook

Article No.	Article Description	QTY
4940 12	BRAKE SPRING PLIERS 500MM	1
4940 12 1	REPL.HOOK F.BRAKE SPR.PL.500MM	1

(L mm)



Brake-Line Spanner

- Open double-ended ring spanner hexagon
- Cranked reinforced version
- SW 10 x 11

Article No.	Article Description	QTY
4940 40	BRAKE LINE SPANNER CRANK.10X11	1 z



Union Nut Spanner

- Reinforced version with stop plate
- SW 10 x 11, L 160 mm

Article No.	Article Description	QTY
4920 50	UNION NUT SPANNER W.PLATE10X11	1



Double-Flange and Tube Bending-Set

- In a stable steel box

Article No.	Article Description	QTY
4942 1	DOUBLE-FLANGE A. TUBE BEND.SET	1

- Contents:**
- 1x Mini-tube cutter 3-16 mm
 - 1x Inside/outside miller 4-36 mm
 - 1x Double-flange moulding press complete for D-, E-, F- flange for tube-Ø 4.75/5/6/8/9/10 mm
 - 1x Single-handed tube bending system complete for tube-Ø 4.75/5/6/8/9/10 mm



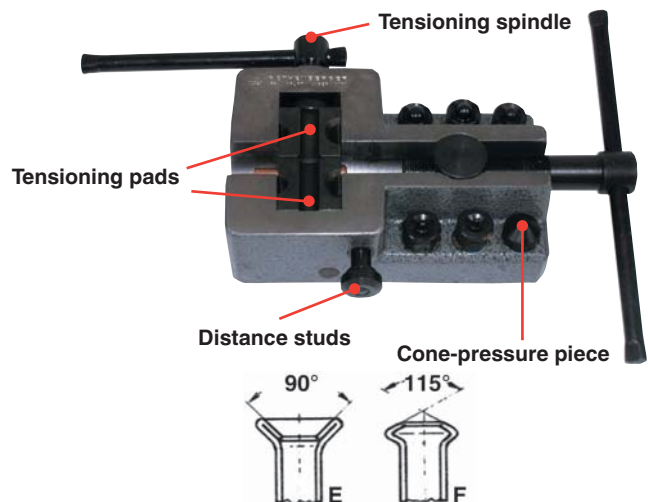
Double-Flange Press

- For standard precision-flange according to DIN 74234 on copper, aluminium and steel tubes as well as seamless pulled and double-wall rolled Burdy-tubes
- For tube-Ø 4.75/5/6/8/9/10 mm

Operation instructions:

1. Put in the tensioning pads according to the tube-Ø
2. Apply the tube to the distance stud (short offset diameter to the front) and strongly fix it with the tensioning spindle.
3. For flange D use the cone-pressure piece. For flange F choose the flange insert according to the tube diameter. To create flange E the flange F has to be reworked with the cone-pressure piece.

Article No.	Article Description	QTY
4942 2	DOUBLE-FLANGE PRESS SET	1



Double Flange Press - Single Parts

Article No.	Article Description	QTY
4943 2 475 5	FLANGE INSERT 4,75/ 5MM	1
4943 2 6	FLANGE INSERT 6MM	1
4943 2 8	FLANGE INSERT 8MM	1
4943 2 9	FLANGE INSERT 9MM	1
4943 2 10	FLANGE INSERT 10MM	1
4943 2 20	CONE-PRESSURE PIECE	1
4943 2 21	TENSIONING SPINDLE	1
4943 2 22	FLANGE SPINDLE	1
4943 2 23	DISTANCE STUD	1
4943 2 475 10	TENSIONING PADS-SET 4,75/10MM	1



Flange Device for Brake Lines

- Double-flange device for copper and plastic covered brake lines
- Quick clamping device for free of damage stretching of the brake line
- For brake lines Ø 4,75 mm and Ø 6,0 mm
- Double flanging according to DIN 74234 (brake and hydraulic lines)
- In a metal box
- Easy handling

Article No.	Article Description	QTY
4942 3	FLANGE DEVICE FOR BRAKE LINE	1
4942 3 1	PRESSURE PIECE 4.75MM	1
4942 3 2	PRESSURE PIECE 6.00MM	1
4942 3 3	CLAMPING JAW 4.75MM	1
4942 3 4	CLAMPING JAW 6.00MM	1

Art. No. 4942 3:

- 1x Flange device for brake lines
- 1x Art. No. 4942 3 1 Pressure piece 4.75 mm
- 1x Art. No. 4942 3 2 Pressure piece 6.00 mm
- 1x Art. No. 4942 3 3 Clamping jaws 4.75 mm
- 1x Art. No. 4942 3 4 Clamping jaws 6.00 mm



Hand Flanging Device for Brake Lines

- 13-piece set in case, including cutting and deburring tools
- For application directly at the vehicle due to hydraulic spindle
- User-friendly handling
- Flanging according to DIN and SAE of line diameters 4.75 / 5 / 6 mm possible
- Smooth design of pressing jaws, thus no damage of plastic covered steel lines
- Ideal for mobile use

Article No.	Article Description	QTY
4942 40	HAND FLAN.DEV.F.BRAKE LINE SET	1

- 1x Hydraulic spindle 2 t
- 1x Toggle for spindle
- 1x Mini pipe cutter
- 1x Deburrer
- 1x Clamping piece with handle
- 1x Clamping jaws 4.75 mm / DIN + SAE
- 1x Clamping jaws 5.00 mm / DIN + SAE
- 1x Clamping jaws 6.00 mm / DIN + SAE
- 1x Flange mandrel DIN 4.75 + 5.00 mm
- 1x Flange mandrel DIN 6.00 mm
- 1x Flange mandrel SAE 4.75 + 5.00 mm - OP1
- 1x Flange mandrel SAE 6.00 mm - OP1
- 1x Flange mandrel SAE 4.75 + 5.00 + 6.00 mm - OP2



Hand Flaring Tool Mini

- Light and handy
- Allows direct use on the vehicle's brake and hydraulic lines
- For seamlessly drawn, double-walled, rolled Bundy pipes with pipe Ø 4.75 mm and 3/16"
- Standard precision flange to DIN and SAE on copper, aluminium and steel pipes
- No damage to coated pipes

Article No.	Article Description	QTY
4942 6	HAND FLARING TOOL MINI	1



Deburring Tool for Pipes In-/Outside

- For deburring of steel pipes, aluminium and copper pipes, and such made of plastic material
- Ideal for use in the processing of automotive brake lines
- Retractable inside deburring element
- For inside diameters: 3 - 12 mm
- For outside diameters: 4 - 14 mm
- Length: 125 mm
- Material: HSS

Article No.	Article Description	QTY
4941 125	DEBUR.TOOL F.PIPES IN-/OUTSIDE	1
4941 125 1	REPL.BLADE OUTER FOR 125	1
4941 125 2	REPL.BLADE INNER FOR 125	1



Pipe Bending Pliers

- Suitable for copper, steel and plastic coated lines
- Conduit packing directly at the vehicle or at disassembled lines

Art. No. 4943 10:

- With 4 bending rolls: 4.75/5/6/8/10 mm
- Length: 270 mm

Art. No. 4943 11:

- For 4.75 and 6 mm brake lines
- Length: 235 mm

Article No.	Article Description	QTY
4943 10	PIPE BENDING PLIERS 4.75-10MM	1
4943 11	PIPE BENDING PLIERS 4.75/6MM	1



Brake-Piston Tool Kit

- 37-parts in a plastic case
- for turning back or pressing of the brake piston at floating stored brake-caliper systems
- one spindle with right and one with left-handed thread
- left-handed thread-spindle e. g. for Ford Focus and Mondeo

Article No.	Article Description	QTY
4940 50 00	BRAKE-PISTON TOOL KIT 37-PIECE	1

Included in delivery:

- 30x adapters for the most popular vehicles
- suitable for: Mercedes, Toyota, VW, Audi, Seat, BMW, Citroen, Nissan, Mazda, Mitsubishi, Ford, Rover, Honda, Daewoo, Skoda, Opel, Renault etc.



Brake Piston Tool Kit - Pneumatic

- 16-part in plastic case
- For turning back or pressing of the brake piston at floating stored brake-caliper systems
- Pneumatic spindle with right-hand and left-hand thread

Article No.	Article Description	QTY
4940 49 0	BRAKE PIST.TOOL KIT PNEUM.16PA	1

Included in delivery:

- 15x adapter of the well-established vehicles: Suitable for Mercedes-Benz, Toyota, VW, Audi, Seat, BMW, Citroen, Nissan, Mazda, Mitsubishi, Ford, Rover, Honda, Daewoo, Skoda, Opel, Renault etc.

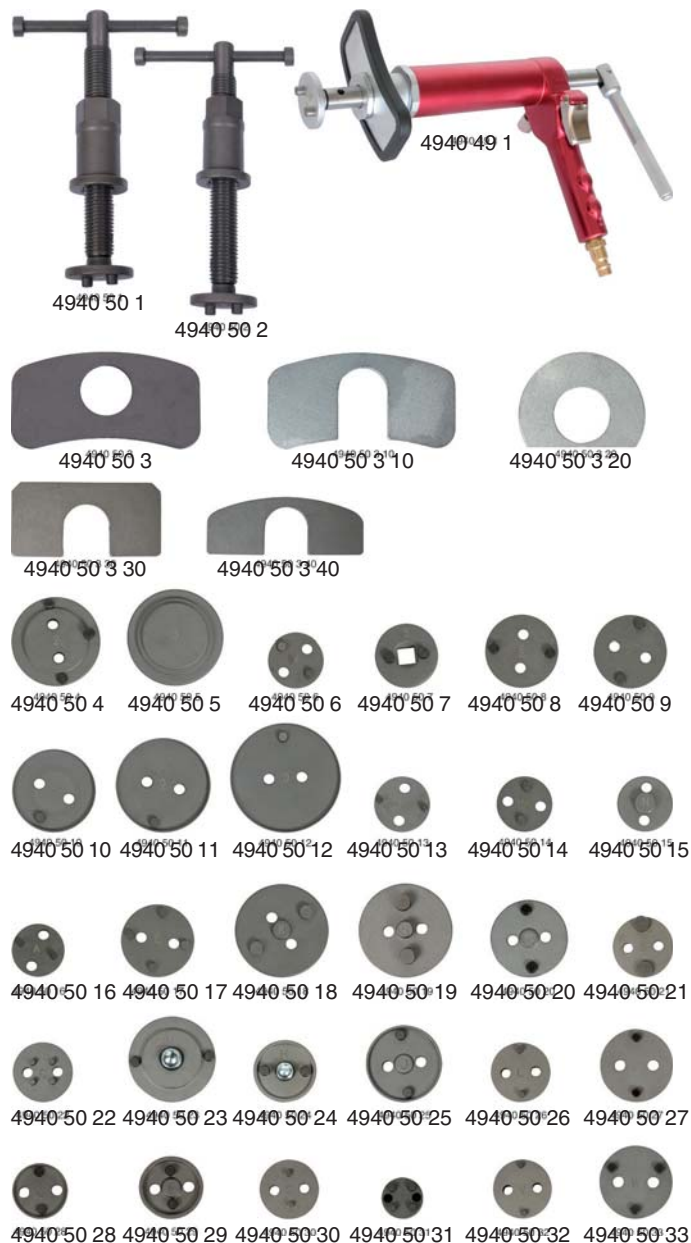


Brake Piston Tool Kit Pneumatic - Accessories

Article No.	Article Description	QTY
4940 49 1	SPIND.LE/RI PNEUM.FOR4940 49 0	1
4940 50 1	SPINDLE LEFT-HA.THR. F.4940 50	1
4940 50 2	SPINDLE RIGHT-HA.THR.F.4940 50	1
4940 50 3	ADAPTER NO 1 FOR 4940 50	1
4940 50 3 10	PRESSURE PLATE B FOR AGR4940	1
4940 50 3 20	PRESSURE PLATE C FOR AGR4940	1
4940 50 3 30	PRESSURE PLATE D FOR AGR4940	1
4940 50 3 40	PRESSURE PLATE E FOR AGR4940	1
4940 50 4	ADAPTER NO2 D 51MM FOR 4940 50	1
4940 50 5	ADAPTER NO3 D 54MM FOR 4940 50	1
4940 50 6	ADAPTER NO4 D 32MM FOR 4940 50	1
4940 50 7	ADAPTER NO5 D 35MM FOR 4940 50	1
4940 50 8	ADAPTER NO6 D 42MM FOR 4940 50	1
4940 50 9	ADAPTER NO7 D 42MM FOR 4940 50	1
4940 50 10	ADAPTER NO8 D 47MM FOR 4940 50	1
4940 50 11	ADAPTER NO9 D 54MM FOR 4940 50	1
4940 50 12	ADAPTER NO.0 D63MM FOR 4940 50	1
4940 50 13	ADAPTER NO.G D30MM FOR 4940 50	1
4940 50 14	ADAPTER NO.M D32MM FOR 4940 50	1
4940 50 15	ADAPTER NO.N D32MM FOR 4940 50	1
4940 50 16	ADAPTER NO.Z D30MM FOR 4940 50	1
4940 50 17	ADAPTER NO.E FOR 4940 50	1
4940 50 18	ADAPTER NO.K FOR 4940 50	1
4940 50 19	ADAPTER NO.51 FOR AGR4940	1
4940 50 20	ADAPTER NO.M2(K2) FOR AGR4940	1
4940 50 21	ADAPTER NO.B FOR AGR4940	1
4940 50 22	ADAPTER NO.C FOR AGR4940	1
4940 50 23	ADAPTER NO.D FOR AGR4940	1
4940 50 24	ADAPTER NO.H FOR AGR4940	1
4940 50 25	ADAPTER NO.J FOR AGR4940	1
4940 50 26	ADAPTER NO.L FOR AGR4940	1
4940 50 27	ADAPTER NO.P FOR AGR4940	1
4940 50 28	ADAPTER NO.Q FOR AGR4940	1
4940 50 29	ADAPTER NO.R FOR AGR4940	1
4940 50 30	ADAPTER NO.S FOR AGR4940	1
4940 50 31	ADAPTER NO.T FOR AGR4940	1
4940 50 32	ADAPTER NO.V FOR AGR4940	1
4940 50 33	ADAPTER NO.W FOR AGR4940	1

Application list of the adapter:

- Art.-No. 4940 50 4:** Citroen XM, Xantia, BX 16V, Honda Prelude 2.0i, Mercedes Benz
- Art.-No. 4940 50 5:** Alfa Romeo, Audi, Austin, BMW, Citroen, Ford, Honda, Jaguar, Mercedes-Benz, Mitsubishi, Nissan, Peugeot, Rover, Toyota, Volvo, VW
- Art.-No. 4940 50 6:** Alfa Romeo, 164 2.0, Fiat Uno, Honda Civic, Accord, Ford, Mazda, Rover 220C, Saab 9000, Subaru
- Art.-No. 4940 50 7:** Adapter with 3/8" female square
- Art.-No. 4940 50 8:** Nissan Primera, Jaguar S Type, VW Golf IV
- Art.-No. 4940 50 9:** Audi 80, 90, V8, 100, Ford Sierra ABS, Ford Scorpio from year '85, Honda Prelude, Nissan Silvia, Opel Astra G, Corsa C, Zafira, Rover 8000, Saab 9000, Subaru L+Z, VW Golf und Passat
- Art.-No. 4940 50 10:** General Motors
- Art.-No. 4940 50 11:** General Motors
- Art.-No. 4940 50 12:** General Motors
- Art.-No. 4940 50 13:** Fiat Stilo, Opel Astra
- Art.-No. 4940 50 14:** Ford, Nissan Primera
- Art.-No. 4940 50 15:** Alfa Romeo 164 2.0 Twin Spark, 2.0 Turbo, 3.0V6, Audi Quattro, Ford Mondeo 2.0Ghia, Saab, Honda, VW Golf GTI (83-87), Scirocco 16V from year '84
- Art.-No. 4940 50 16:** BMW Mini, Renault
- Art.-No. 4940 50 17:** Nissan Maxima
- Art.-No. 4940 50 18:** Citroen
- Art.-No. 4940 50 19:** Citroen C5, Renault
- Art.-No. 4940 50 20:** Audi A8, S8 from year '99, Citroen, Renault,
- Art.-No. 4940 50 21:** Ford (USA) Mercury, Monarch, Thunderbird, Lincoln Continental, Subaru, GTS
- Art.-No. 4940 50 22:** Austin, Opel Vectra 02, Nissan Primera (2), Toyota Avensis
- Art.-No. 4940 50 23:** Citroen BX & BX 16V, Renault
- Art.-No. 4940 50 24:** Peugeot 206



- Art.-No. 4940 50 25:** Alfa Romeo 155, 164 TD, 164 3.0V6, Audi 80, 90, A3, A4, A6, A8, Fiat Tipo, Uno, Croma TD, Citroen ZX, Honda CRX 1.6i, Ford Sierra, Granada, Thunderbird Turbo, Jaguar XJ 40, Lancia Dedra, Delta, Thema, Nissan 280 ZX, 300ZX Turbo, Primera, 200SX, Maxima, Peugeot 306, 309, 16S, 405, Renault Master Van, Rover 216, 820, 825, Saab 9000 CS, CSE Turbo, Seat Toledo, Ibiza from year '95, Subaru L Serie & Serie 2, VW Passat from year '84, Golf Rallye until year '89, GTI 2, Vento, Transporter T4, Volvo S40, V40
- Art.-No. 4940 50 26:** Audi, BMW, Ford, Citroen C3 Lancia, Proton, Renault, Rover, VW,
- Art.-No. 4940 50 27:** Opel Astra & Zafira (Bosch), Zafira, Nissan Primera 2.0 Bluebird, VW
- Art.-No. 4940 50 28:** Alfa Romeo 164, Fiat Uno, Ford Escort 2000RS, Mondeo V6, Honda Civic, Accord, Concerto S, Rover 220 C, Saab 99L, 900, 900 Turbo, Subaru L Serie & Serie 2
- Art.-No. 4940 50 29:** Mazda 323 GTI, GTX, 929, RX7, 626, Mitsubishi, Gatant GLSI, Toyota Celica, Corolla GT, MR2
- Art.-No. 4940 50 30:** Audi 100Tqi Bj. 91, BMW 740i year '91, Lancia Delta 1,9TD, Renault, Rover, VW Golf GTI 3 & 4, Passat VR6, Vento GT
- Art.-No. 4940 50 31:** Renault R21, Modus, Rover 220C Turbo
- Art.-No. 4940 50 32:** Renault Clio, Rover 260Gti, 820, 825
- Art.-No. 4940 50 33:** VW-Gruppe mit elektrisch Handbremse (Passat, A4, A6), Iveco Daily, Volvo V70 from year '2008, XC60, XC70 from year '2008, S80 from year '2007, V60, S60 from year '2010

Ratchet for ABS Sensor

- Special tool for cleaning the guide-drilling of the ABS sensor in the wheel bearing housing

Article No.	Article Description	QTY
4940 26	RATCHET ABS-SENSOR 15/23MM	1
4940 27	RATCHET ABS-SENSOR 18/23MM	1

(Ø x length)



Reamer set ABS sensor car

- ideal for cleaning the ABS sensor module
- very good guidance with the T handle
- T handle ideal use when there is a lack of pace
- can also be used with 1/4" reversible ratchets
- in plastic case art. no. 4415 14 16 1 with VAROsoft system art. no. 9026 828

Article No.	Article Description	QTY
4940 60 1	REAMER SET ABS SENSOR CAR 3PCE	1
4940 60 2	REAMER 18MM/23MM	1
4940 60 3	REAMER 15MM/23MM	1
4940 60 4	1/4" T-HANDLE FOR REAMER	1

(Ø x length)

contents art. no. 4940 60 1:

- 1x art. no. 4940 60 4 1/4" T-handle
- 1x art. no. 4940 60 2 reamer Ø 18 mm, length 23 mm
- 1x art. no. 4940 60 3 reamer Ø 15 mm, length 23 mm



Thread Repair Set, 17-pce

- 17-piece in plastic case art. no. 4415 14 16 1 with VAROsoft system art. no. 9026 636
- the inner thread M9 installed in the wheel bearing housing helps the screw joint of the brake guide pins
- this inner thread is often destroyed when removing the guide pins
- a highly stressable, non-corrosive stainless steel thread bushing is used with the drill contained in the set
- the enclosed copper ring must be used to keep the unit clean and flat

Article No.	Article Description	QTY
5571 2	THREAD REPAIR SET M9X1.25 17PCE	1

Contents:

- 1x Art.-No. 5571 2 2 Pck(10) threaded bushing M9 x 1,25
- 1x Art.-No. 5571 2 3 TIN special spiral-flute counter-bore
- 1x Art.-No. 5571 2 4 drilling jig for VW
- 1x Art.-No. 5571 2 5 drilling jig for OPEL
- 1x Art.-No. 5571 2 6 drilling jig for FORD
- 1x Art.-No. 5540 9 machine tap M9
- 1x Art.-No. 5562 1 tool holder with ratchet M3- M10
- 1x Art.-No. 4156 7 Hexa-Plus offset screwdriver



Brake Bleeding Ratchet, Long

- Special brake bleeding ratchet SW 11 for rearward bleeder valve at VW Golf, Audi A3, Seat Altea, Skoda Octavia new
- Without disassembly and assembly of rear wheels

Article No.	Article Description	QTY
4940 6	BRAKE BLEEDING RATCHET SW11 LG	1
4940 6 1	REPL.HOSE FOR BR.BLEED.RATCHET	1



Brake Bleeding Ratchet, Short

- Special brake bleeding ratchet SW 11 for rearward bleeder valve at Audi A4 and VW Passat
- Without disassembly and assembly of rear wheels

Article No.	Article Description	QTY
4940 7	BRAKE BLEEDING RATCHET SW11	1
4940 6 1	REPL.HOSE FOR BR.BLEED.RATCHET	1

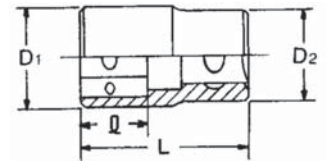


Oil Service-Insert-Holder 1/2"

- With hexagon drive SW 17

Technical Data				
Art. No.	D1 mm	D2 mm	Q mm	Length mm
4481 12	25	24	16	40

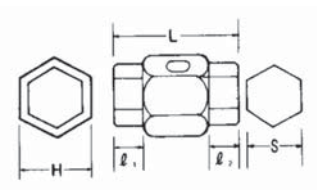
Article No.	Article Description	QTY
4481 12	1/2-OIL SERVICE-INSERT-HOLDER	1 z



Oil Service-Socket Inserts

Technical Data					
Art. No.	SW	H mm	I1 mm	I2 mm	Length mm
4481 810	8 x 10	17	7.9	7.9	32
4481 838	8 x 3/8	17	7.9	7.9	32
4481 1011	10 x 11	17	7.9	7.9	32
4481 1213	12 x 13	17	7.9	7.9	32
4481 1417	14 x 17	17	7.9	7.9	32

Article No.	Article Description	QTY
4481 8 10	OIL SERVICE-INSERT 8SX 10S	1
4481 8 38	OIL SERVICE-INSERT 8HX3/8H	1
4481 10 11	OIL SERVICE-INSERT 10HX 11H	1
4481 12 13	OIL SERVICE-INSERT 12HX 13H	1
4481 14 17	OIL SERVICE-INSERT 14HX 17H	1



(S = square, H = hexagonal)

Oil Service-Wrench Set

- 7-piece

Article No..	Article Description	QTY
4481 8 19	OIL DRAIN SCREW SET SW 8-19	1

Included in delivery:

- 1x Art. No. 4481 12 Oil service-insert-holder 1/2"
- 1x AGR 4481 Oil service wrench inserts SW 8 x 10.8 x 3/8, 10 x 11, 12 x 13, 14 x 17, 19



Oil Service-Square-Pin Wrench

- Universal with 10 square sizes and a screwdriver blade
- Length: 220 mm
- Square-SW 8.7/9.5/10.5/11.5/13 mm
- Square-caps: 6.8 - 8.7/10.5 - 13/15.2 - 18/16.5 - 19 mm

Article No.	Article Description	QTY
4927 1	SQUARE-OIL SERVICE PIN WRENCH	1



Oil Filling Funnel

- For direct and sealed connection with oil filler at the motor
 - Controlled oil filling (2,3 l)
- Art.-No. 4927 2:**
- Universally applicable e.g. Audi, VW, Seat, Mercedes-Benz etc.
- Art.-No. 4927 3:**
- models of VAG-group, from year 2013 with small motor oil filler

Article No.	Article Description	QTY
4927 2	OIL FILLING FUNNEL	1
4927 3	OIL FILL. FUNNEL VAG FROM2013	1



4927 2



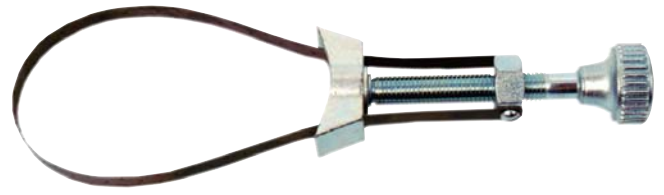
4927 3

Oil-Filter Hook Wrench

- Tightening strap made of spring steel with neps for a robust grip

Article No.	Article Description	QTY
4926 12	OIL-FILTER HOOK WRENCH 60-110	1
4926 13	OIL-FILTER HOOK WRENCH 110-155	1
4926 12 1	REP.STR.F.OIL-F.HOOK WR.60-110	1
4926 13 1	REP.STR.F.OIL-F.HOOK W.110-155	1

(For filter Ø mm)



Oil-Filter Wrench

- With flexible handle, angled up to 90°
- Self-tightening steel strip with fixing neps

Article No.	Article Description	QTY
4926 7	OIL-FILTER WRENCH 73-82.5MM	1
4926 8	OIL-FILTER WRENCH 80-95MM	1
4926 9	OIL-FILTER WRENCH 95-115MM	1

(For filter Ø mm)



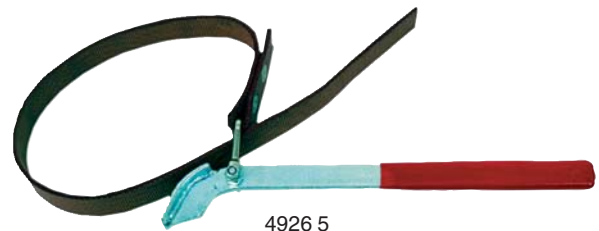
Belt Strap-Filter Wrench

- Strap dimension (W x L): 22 x 600 mm
- For filter 20 - 160 Ø mm

Art.-No. 4926 5 2:

- Strap dimension (W x L): 25 x 800 mm
- for filter 20 - 230 Ø mm

Article No.	Article Description	QTY
4926 5	BELT STRAP-FILTER WRENCH 160MM	1
4926 5 1	REPLACEMENT STRAP 22X600MM	1
4926 5 2	REPLACEMENT STRAP 25X800MM	1



4926 5



4926 5 2

Chain-Filter Wrench

- With reinforced chain and square intake 1/2" for ratchet

Article No.	Article Description	QTY
4926 20	CHAIN-FILTER WRENCH 50-110	1
4926 21	CHAIN-FILTER WRENCH 50-220	1

(For filter Ø mm)



Oil Filter-Spiders

- Left and right tightening

Art.-No. 4926 2, 4926 3:

- Intake 3/8"
- incl. square intake adapter, intake with 1/2" drive on 3/8" and hexagonal SW 21mm

Art.-No. 4926 4:

- Intake 1/2"
- extra strong version for the truck sector

Article No.	Article Description	QTY
4926 2	OIL-FILT.SPIDER RI/LE 63-102MM	1
4926 3	OIL-FILT.SPIDER RI/LE 65-120MM	1
4926 4	OIL-FIL.SPIDER RI/LE 112-155MM	1

(For filter Ø mm)



Oil-Filter key 1/2" SW 27

- For assembling/disassembling the oil filter housing in the following new models: - **Ford**: C-Max, Focus, Galaxy, Kuga, Mondeo, S-Max - **Peugeot**: 308, 2008, 508, 5008, 407, RCZ - **Citroën**: C4, Picasso, Grand Picasso, C5, etc.
- The use of an ordinary key is not possible on account of compact construction in the engine compartment
- Using the 1/2" drive, the oil filter housing can be tightened to the prescribed torque using the torque wrench

Article No.	Article Description	QTY
4926 24	ÖLFILTERGEÄUSESCHL. 1/2" SW27	1



Oil-Filter Release Caps

- Square intake 3/8" for ratchet / toggle

Technical Data			
Art. No.	Material	suitable for	for filter Ø
4926 30	Steel-plate	BMW, Citroen, Datsun, Fiat/Lancia, Ford, Mazda, Mercedes-Benz, Nissan,	76 mm/ 14-cornered
4926 31	Steel-plate	Opel, Peugeot, Porsche, Renault	80 mm/ 15-cornered
4926 32	Steel-plate	Datsun, Ford, Honda, Isuzu, Mazda, Nissan, Opel, Subaru, Toyota	93 mm/ 15-cornered
4926 33	Steel-plate	Alfa-Romeo, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel, Porsche, Renault, Volo, VW/Audi	85 mm/ 18-cornered
4926 34	Steel-plate	VW-Golf TDI, Passat TDI with VW-Filter 068 115 561E	95 mm/ 18-cornered
		Audi A4 TDI, VW Passat TDI mit VW-Filter 028 115 561 E	

Article No.	Article Description	QTY
4926 30	OIL FILT.RELEA.CAP.14CORN.76MM	1
4926 31	OIL FILT.RELEA.CAP.15CORN.80MM	1
4926 32	OIL FILT.RELEA.CAP.15CORN.93MM	1
4926 33	OIL FILT.RELEA.CAP.18CORN.85MM	1
4926 34	OIL FILT.RELEA.CAP.18CORN.95MM	1



Oil Filter-Release Caps Set, 13-Part

- For profiled oil-filter cartridges, in a case
- Specially designed for European vehicles such as VW, Audi, BMW, Fiat, Lancia, Mercedes, Seat, Skoda, Volvo etc.
- High-quality deep drawing steel with reinforced plate and 3/8" inner square

Technical Data

SW mm	Number of grooves	Steps	Application e.g.
66	6	1	Fiat (Punto), Renault (Clio)
76	8	1	Fiat (Marea), Lancia (Delta)
76	12	1	Fiat (Ducado, Skudo, Ulysee), Renault (Megane, Laguna)
86	18	1	VW Golf (Passat TDI), Audi A6 TDI, Renault (Clio/Rapid 1.9D)
86	10	1	Volvo (S40, S70, S80)
92	10	1	Fiat (Cinquecento, Seicento), Lancia (Beta, Dedra, Kappa), Monte Carlo (Prisma, Thema) etc.
93	45	1	VW, Audi (Diesel, TDI 2,4/2,6) etc.
96	18	1	Audi (A4 mit TDI-Motor), VW (Passat ab Bj 97 TDI-Motor), Renault (Laguna, Safrane, Megane 1,9/2,1D/TD) etc.
106	15	1	Fiat (Ducato 2,5 D/TD) etc.
108	15	1	Volvo (C70, S70, V70, TDI, TD850 TDI, TD)
108	18	1	Renault (Espace, Laguna, Master, Safrane, Traffic)



Article No.	Article Description	QTY
4926 90	OIL FILTER-REL.CAPS SET 13PART	1

Included in delivery:

- 1x Adapter 1/2" by 3/8"
- 1x Oil-filter spider for filter-Ø 65 – 120 mm

Oil Filter-Release Caps-Set, 15-Piece

- For profiled oil-filter cartridges, in a case
- High-quality, deep drawing steel with reinforced plate and 3/8" inner square
- Suitable for div. filter and vehicle manufacturers e. g. AC, Fram, Knecht/Mahle, Mann, Motorcraft, Purlux, Purolator etc. These filters are used for e. g. Alfa Romeo, BMW, Citroen, Datsun, Fiat, Ford, Honda, Isuzu, Lancia, Mazda, Mercedes Benz, Nissan, Opel, Porsche, Renault, Subaru, Toyota, VW/Audi, Volvo etc.

Technical Data

SW mm	Number of edges	Steps
65	14	1
68	14	1
65/67	14	2
76	14	1
76	30	1
73	14	1
75/77	15	2
93	15	1
90	15	1
100	15	1
74/76	15	1
80	15	1
80/82	15	2
93	36	1



Article No.	Article Description	QTY
4911 0122 31	OIL FILTER-RELEASE CAP-SET 15P	1

Included in delivery:

- Adapter on 1/2"

Oil Drain Thread-Repair-Set M15

- The original-thread M14 x 1.5 can be cut out in one operation and can be adjusted to M15 x 1.5
- Instead of the original screw plug a bigger screw plug with a suitable sealing washer is screwed in

Article No.	Article Description	QTY
4927 10	OIL DRAIN THREAD-REP-SET M15	1
4927 10 1	THREAD DRILL M15X1,5	1
4927 10 2	SCREW PLUG M15X1.5	5
4927 10 3	SEAL.WASHER7603 A CU 15X21X1,5	5
4927 10 4	SEAL.WASHER7603 A ALU15X21X1,5	5

Art. No. 4927 10:

- 1x Special-threaded drill M 15 x 1.5
- 5x Screw plugs M 15 x 1.5
- 5x Sealing washers, copper



Oil Drain Thread-Repair-Set M13- M20

- For the repair of M12 x 1.5, M14 x 1.5, M16 x 1.5 and M18 x 1.5
- The original thread can be cut out in one action and can be extended to one size
- Instead of the original screw plug a bigger screw plug with the corresponding sealing washer will be screwed in

Article No.	Article Description	QTY
4927 20	OIL DRAIN THR.REP.SET M13-M20	1
4927 20 1	THREAD DRILL M13X1.5	1
4927 10 1	THREAD DRILL M15X1,5	1
4927 20 2	THREAD DRILL M17X1.5	1
4927 20 3	THREAD DRILL M20X1.5	1
4927 20 4	SEAL.RI.SIM.7603A ALU13X17X1.5	10
4927 20 5	SEAL.RI.SIM.7603A ALU15X19X1.5	10
4927 20 6	SEAL.RI.SIM.7603A ALU17X21X1.5	10
4927 20 7	SEAL.RI.SIM.7603A ALU20X24X1.5	10
4927 20 8	SCREW PLUG M13X1.5	5
4927 10 2	SCREW PLUG M15X1.5	5
4927 20 9	SCREW PLUG M17X1.5	5
4927 20 10	SCREW PLUG M20X1.5	5

Art. No. 4927 20:

- 1x Art. No. 4927 20 1 Thread drill M 13 x 1.5
- 1x Art. No. 4927 10 1 Thread drill M 15 x 1.5
- 1x Art. No. 4927 20 2 Thread drill M 17 x 1.5
- 1x Art. No. 4927 20 3 Thread drill M 20 x 1.5
- 10x Art. No. 4927 20 4 Sealing ring Alu 13 x 17 x 1.5
- 10x Art. No. 4927 20 5 Sealing ring Alu 15 x 19 x 1.5
- 10x Art. No. 4927 20 6 Sealing ring Alu 17 x 21 x 1.5
- 10x Art. No. 4927 20 7 Sealing ring Alu 20 x 24 x 1.5
- 5x Art. No. 4927 20 8 Screw plug 13 x 1.5
- 5x Art. No. 4927 10 2 Screw plug M 15 x 1.5
- 5x Art. No. 4927 20 9 Screw plug M 17 x 1.5
- 5x Art. No. 4927 20 10 Screw plug M 20 x 1.5



Screwdriver Bit 1/2"

- Similar to Ribe profile
- For cylinder head screw of the following models: Audi, VW, Skoda, Seat
- Length: 92 mm

Article No.	Article Description	QTY
4920 9 10	1/2" SCREWDR.BIT INSERT M 9/10	1



Lapping Valve

Art. No. 4920 27:

- Lapping valve Ø 25 x L 255 mm for manual whisk operation

Art. No. 4920 27 1:

- Replacement suction cup Ø 25 mm

Article No.	Article Description	QTY
4920 27	LAPPING VALVE 25X255 MM	1
4920 27 1	SUCTION CUP FOR LAPP.VALVE 25	1



Valve-Grinding Device

- For the operation with a hand drill

Art. No. 4920 20:

- Valve-grinding device with automatic lapping shift in direction

Art. No. 4920 20 1:

- Replacement suction cup Ø 20 mm

Art. No. 4920 20 2:

- Replacement suction cup Ø 28 mm

Article No.	Article Description	QTY
4920 20	VALVE-GRINDING DEVICE F.MACH.	1
4920 20 1	VALVE-GRIND.DEV.SUCTION CUP 22	1
4920 20 2	VALVE-GRIND.DEV.SUCTION CUP 28	1



Valve Grinding Compound

- Dilutable with oil (e.g. engine oil)

- Coarse = grit P90

- Fine = grit P180

Article No.	Article Description	QTY
4920 25	VALVE-GRIND.COMP.COARSE 100ML	1
4920 25 1	VALVE-GRINDING COMP.FINE 100ML	1



Coupling Centring Tool Kit

- Quick and easy centring of couplings **with** and **without** pilot bearing

Article No.	Article Description	QTY
4920 30	COUPLING CENTRING TOOL KIT	1



Face Pin-Wrench

- Cranked

- pin-Ø 2,9 mm

- Pin-distance 18 mm for tensioning pulley of the toothed belt at VW/Audi

Article No.	Article Description	QTY
4920 60	FACE PIN WRENCH 2587	1 z



Replacement-Hook Tool-Kit

- With strong magnet
- For tightening split pins
- Mounting of springs and O-rings
- For cable runnings etc.

Article No.	Article Description	QTY
4920 40	REPLECEMENT HOOK TOOL-KIT	1



V-Belt Tool Kit, 2-pcs.

- for self-tensioning V-belts without tensioning rollers
- necessary for easy and fast disassembly and assembly of flexible V-belts, e.g. A/C compressor drives
- helpful for reassembly if belt needs to be disassembled without damage
- with wing-nut on one side for easy tightening
- in plastic case Art.-No. 4415 14 16 1
- with VAROsoft System Insert Art.-No.9026 81

Disassembly:

- V-belt is pushed off by tool taper when the pulley is rotated

Assembly:

- Clamp pushes the V-belt onto pulley

Technische Daten		
Alfa	159	2.4JTDM
BMW	1;3;5;6;7;X	3.0/3.5 Diesel; 4.0 Gasoline 1.8/2.0 Diesel
	Mini	
Chrysler		2.5 Diesel
Fiat	Stilo	2.4; 1.6 Gasoline
	Doblo	1.3D Multi; 1.3 JTD; 1,3 Gasoline
	Ducado	100 Multi 2.2 w/o A/C
Ford	Various	2.0; 2.2 Diesel
Mercedes-Benz		Motor 642 V6
	Smart	Motor 451
PSA	C2; C3; 207	1.4/1.6 HDI with A/C
	C4; 307	1.6 HDI w/o A/C
VAG	Various	1.2 Gasoline
Volvo	S80	2.4 Diesel

Article No.	Article Description	QTY
4920 70	V-BELT TOOL KIT 2-PIECE	1

Contents:

- Art.-No. 4920 701 V-belt tool / disassembly
- Art.-No. 4920 70 2 V-belt tool assembly



Compression pressure recorder - petrol and diesel

Recording compression tester with quick-connect tester, as set in case, consisting of:

- Recording compression tester for petrol engines (3.5 - 17.5 bar)
- Recording compression tester for diesel engines (10 - 40 bar)
- 3 extensions
- Pressure hose
- Angle piece
- 3 rubber cones with sockets
- Adapter for keeping available connecting adapters (adapters must be ordered separately)
- 1 pack of 100 pieces of recording charts for each tester (petrol and diesel)

Article No.	Article Description	QTY
3061 103	RECORD.COMP.TEST.PETROL+DIESEL	1



Compression pressure recorder - petrol

Compression pressure recorder with quick-release coupling, in case, consisting of:

- 2x extensions: 70 mm and 70° elbow
- 1x extension (140 mm) with rubber cone and nozzle
- 2x rubber cones with nozzles: 1x 63° Ø 17 mm and 1x 30° Ø 21 mm
- 1 x pressure hose 350 mm
- 1 pack (100 sheets) of graph paper - petrol and diesel

Article No.	Article Description	QTY
3061 100	RECORD.COMPR.TEST.PETR.17.5BAR	1



Recording Compression Tester - Diesel

Recording compression tester with quick-connecting coupling, as set in case, consisting of:

- Recording compression tester for diesel engines (10 - 60 bar)
- 1 x Pressure hose 350 mm
- 3 extensions: 1x 70 mm, 1x 70°, 1x 105 mm (adapter must be ordered separately)
- 1 pack (100 pcs) recording charts Otto and Diesel

Article No.	Article Description	QTY
3061 101	RECORD.COMP.TEST.DIES.10-40BAR	1
3061 102	REC.COMP.TEST.-DIESEL 10-60BAR	1

Adapter for diesel recording compression tester:
See assignment under page www.motometer.de/shop

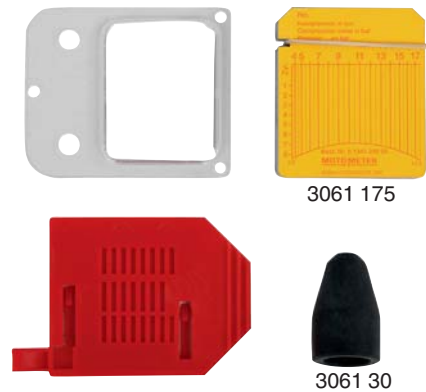


Spare part set KPS 17.5 bar

Article No.	Article Description	QTY
3061 175 1	SPARE PART SET KPS 17.5 BAR	1

Contents:

- 100x Art.-No. 3061 175: chart sheet VK 17.5 bar
- 1x Art.-Nr. 3061 30: rubber cone 30°
- 1x Slide plate for char sheet
- 1x View field for chart sheet



Motometer Compression Chart

- With and without fast coupling connection (Otto and Diesel engines)

Technical Data

Art. No.	for	Type	Effective range bar
3061 12	Otto-engines	VK 12	2.0 - 12.0
3061 175	Otto-engines	VK 17.5	3.5 - 17.5
3061 40	Diesel-engines	DM 40	10.0 - 40.0
3061 60	Diesel-engines	DM 60	10.0 - 60.0

Article No.	Article Description	QTY
3061 12	MOTOMETER COMPRESS.CHART VK 12	100
3061 175	MOTOMETER COMPR.CHART 17,5 VK	100
3061 40	MOTOMETER COMPRESS.CHART DM 40	100
3061 60	MOTOMETER COMPRESS.CHART DM 60	100



Motometer - Rubber Cone

Article No.	Article Description	QTY
3061 29	MOTOMETER - RUBBER CONE Ø17	1
3061 30	MOTOMETER - RUBBER CONE	1
3061 31	RUBB.CONE F.REC.COMP.TEST.Ø21	1



Pulley

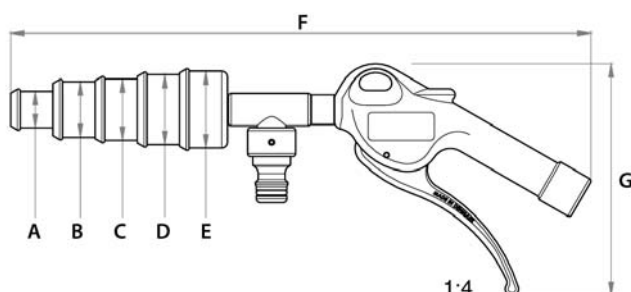
- Essentially for the assembly and disassembly of V-belt pulleys
- For pulley of generators and water pumps as well as for electric motors, compressors, washing machines, tool machines etc.

Article No.	Article Description	QTY
4920 720	PULLEY	1



Cooling system flush cleaning gun

- For the best and gentlest way of flushing out the cooling circuits of engines, radiators and heat exchangers



Dimensions

A	19 mm	C	32 mm	E	40 mm	G	120,9 mm
B	29 mm	D	36,5 mm	F	302,5 mm		1/4" BSP

Technical Data

Operating pressure:	6 - 10 bar
Air consumption:	350 l/min at 8 bar
Water consumption:	6 l/min
Weight:	0.23 kg
Material:	Acetal plastic, Polyoxymethylene (POM), Hardened spring wire
Sealing material:	Nitrile (POM)
Suitable water connector:	Art.-No. 5428 20 12 1
Air connector:	1/4" female thread
Suitable plug nipple:	Art.-No. 3926 14 1

Article No.	Article Description	QTY
5377 100	COOL.SYST.FLUSH CLEANING GUN	1

Delivery scope:

- Cooling water gun including stop regulator and plug nipple

Your Advantage / Benefit

- Quickly and effectively flushes the cooling system
- Best cleaning results even without the use of chemicals
- Restores optimum operation of the cooling system
- High flush performance as a result of water-pressure combination
- Abrasion particles and foreign bodies are flushed out effortlessly

Application

- Suitable for all petrol and diesel engines
- Perfect for cleaning the cooling circuit in the case of heavy oiling resulting from cylinder head damage
- Increases the heating performance by flushing heat exchangers contaminated by abrasion particles and foreign bodies
- Proper flushing in the event of filling with the wrong coolant
- Recommended at every change of coolant



Related Products

- Cooling System Tester**
Art.-No. 5377 20



- Radiator Flush - Cooling System Cleaner** **FÖRCH**
Art.-No. 6750 7046



- Cooling System - Radiator Stop Leak** **FÖRCH**
Art.-No. 6750 7056



- Gardena stop regulator 1/2"**
Art.-No. 5428 20 12 3



Cylinder Head-Leakage Tester

- For testing of the air jack between cooling water and cooling cap

Mode of action:

- A combustion gas which raises the constituent of carbon dioxide (CO₂) in the air jack shows a changing of the colour in the leakage tester liquid.
- A routine testing can be made in a cold engine as well as in a warm engine
- Throughout the bicameral version negative reports will be prevented which can appear due to alkaline residues at other devices or throughout unintended absorption of cooling water

Art. No. 5377 4:

- Testing device with reaction and rinsing fluid



Article No.	Article Description	QTY
5377 4	CYLIND.HEAD-LEAK.TESTER SET	1
5377 5	CO ₂ -REACTION FLUID 300ML	1
5377 6	RINSING FLUID 300ML	1

Cooler-Vacuum-Filling Device

- The cooling system can be filled up within 30 seconds without bubbling, no ventilation of the cooling system necessary
- Due to a leak test the filling of leaky cooling systems is prevented (after renewing of cooling systems, thermostates, hoses etc.)
- Working pressure 6 - 10 bar
- All cooler adapters available (see application list)
- Quick assembly and disassembly due to quick-coupling system
- Usable for the ventilation of auxiliary heatings

Article No.	Article Description	QTY
5377 9	COOL.-VACUUM-FILL.DEVICE KVB01	1

Included in delivery:

- 1x Art. No. 5377 20 3 Universal adapter blue ET 341



Cooling System Tester

- For making a leak test of the cooling system
- Glass fibre reinforced plastic version with drain valve with quick-coupling
- Precision manometer with twin scale 0 - 2.5 bar / 0 - 36 Psi
- All cooler adapters available (see application list)
- Quick assembly and disassembly due to quick-coupling system

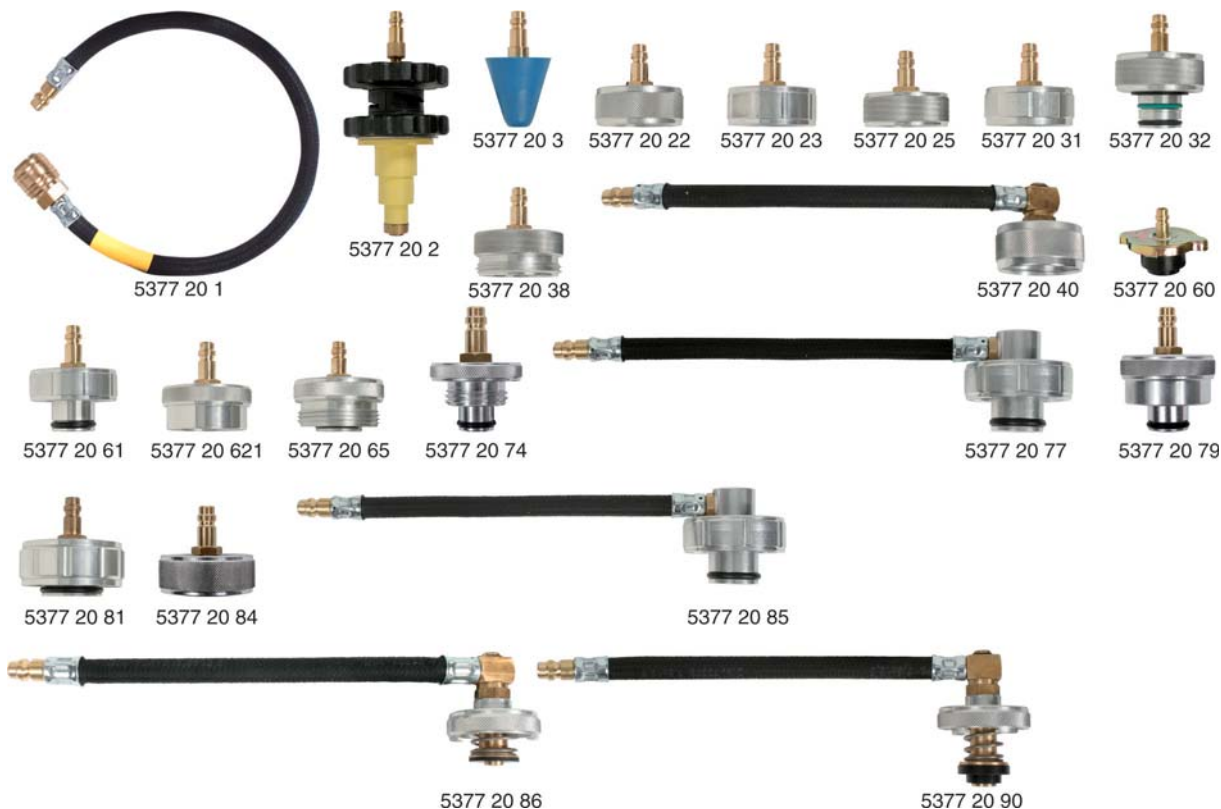
Article No.	Article Description	QTY
5377 20	COOL.SYSTEM TEST.DEV.TVU 138/3	1

Included in delivery:

- 1x Art. No. 5377 20 60 Cooler adapter K60



Cooler Adapters



Article No.	Article Description	QTY
5377 20 1	FLEX.CONNECT.PIECE FZ 100 K	1
5377 20 2	UNIVERSAL ADAPTER 20-41MM UA50	1
5377 20 3	UNIVERSAL ADAPTER BLUE ET 341	1
5377 20 22	ADAPTER KS 22	1
5377 20 23	ADAPTER KS 23	1
5377 20 25	ADAPTER KS 25	1
5377 20 31	ADAPTER KS 31	1
5377 20 32	ADAPTER KS 32 S	1
5377 20 38	ADAPTER KS 38	1
5377 20 40	ADAPTER KW 40	1
5377 20 60	ADAPTER K 60	1

Article No.	Article Description	QTY
5377 20 61	ADAPTER KS 61	1
5377 20 621	ADAPTER KS 62.1	1
5377 20 65	ADAPTER KS 65	1
5377 20 74	ADAPTER KS 74	1
5377 20 77	ADAPTER KW 77	1
5377 20 79	ADAPTER KS 79	1
5377 20 81	ADAPTER KS 81	1
5377 20 84	ADAPTER KS 84	1
5377 20 85	ADAPTER KW 85	1
5377 20 86	ADAPTER KW 86	1
5377 20 90	ADAPTER KW 90	1

Radiator adapter application list

KS = Adapter made of aluminium

KW = Angular adapter made of aluminium

K = Adapter made of plastic

G= Adapter with threaded connector

B = Adapter with bayonet connector

In case of adapters made of plastic such as K 25, use adapters made of aluminium such as KS 25 (identical dimensions)

Vehicle type	Adapter
Alfa Romeo	
alte Modelle	K 60 [B]
147	K 25[G]
159 2006 →	KS 77 [G]
164	K 25 [G]
166	K 25 [G]
Brera	KS 77 [G]
GT	K 25 [G]
Mito	K 25 [G]
Spider	K 31 [G]
Aston Martin	
DB 9	KS 61 [G]
One 77	KS 61 [G]
Vanquish	KS 61 [G]
Vantage	KS 61 [G]
Audi	
A2	K 65 [G]
A3	K 65 [G]
A4	K 65 [G]
A5	K 65 [G]
A6	K 65 [G]
A8	K 22 [G]
Q3	K 65 [G]
Q5	K 65 [G]
Q7	K 65 [G]

Vehicle type	Adapter
Audi	
R8	K 65 [G]
T1	K 65 [G]
Autobianchi	
	K 60 [B]
Bentley	
Arnage	K 31 [G]
GT Continental Coupe	K 22 [G]
BMW	
Old models	K 60 [B]
3-Series → 6/1998	KS 42 [G]
3-Series 7/1998 →	KS 32S [G]
5-Series	K 32 [G]
5-Series 97 →	KS 32S [G]
5-Series 6/2003 →	KS 84 [G]
6-Series 2004 →	KS 84 [G]
7-Series	KS 32S [G]
GT	KS 84 [G]
X-Series	KS 32S [G]
Z 1	KS 42 [G]
Z 3	KS 42 [G]
Z 4	KS 42 [G]
Cadillac	
BLS	KS 77 [G]
CTS	KS 77 [G]

Vehicle type	Adapter
Cadillac	
Escalade	KS 77 [G]
SRX	KS 77 [G]
STS	KS 77 [G]
XL8	KS 77 [G]
Chevrolet	
Aveo	K 31 [G]
Captiva	K 31 [G]
Epica	K 31 [G]
HHR	K 31 [G]
Kalos	K 31 [G]
Lacetti	K 31 [G]
Matiz	K 31 [G]
Nubira	K 31 [G]
Rezzo	K 31 [G]
Chrysler	
300 C	K 24 [B]
Concorde	K 24 [B]
Crossfire	K 81 [G]
Interpride	K 24 [B]
PT Cruiser	K 24 [B]
Sebring	K 24 [B]
Vision	K 24 [B]
Voyager	K 24 [B]
Citroen	

Radiator adapter application list

Vehicle type	Adapter
Citroen	
Berlingo → 1997	K 60 [B]
Berlingo 1998 →	K 25 [G]
C1	KS 86 [B]
C1 HDI	K 25 [G]
C2	K 25 [G]
C3	K 25 [G]
C4	K 25 [G]
C5	K 25 [G]
C6	K 25 [G]
C8	K 25 [G]
C-Crosser	KS 90 [B]
Evasion	K 60 [B]
Jumper	K 25 [G]
Jumpy	K 25 [G]
Nemo	K 25 [G]
Picasso 1999 →	K 25 [G]
Xantia 2.1 TD	K 55 [B]
Xantia 3.0 V6	K 55 [B]
XM	K 60 [G]
XM 2.5 TD	K 55 [B]
Xsara 1999 →	K 55 [B]
Dacia	
Duster	K 25 [G]
Logan	K 25 [G]
Sandero	K 25 [G]
Daewoo	
Evanda	K 31 [G]
Kalos	K 31 [G]
Lacetti	K 31 [G]
Matiz	K 31 [G]
Nubira	K 31 [G]
Tacuma	K 31 [G]
DAF	
Truck Type 45	K 60 [B]
Truck 1992 → 1995 →	KS 64 [G]
Truck CF75	K 68 [G]
Truck CF85	K 68 [G]
Daihatsu	
Copen	KS 86 [B]
Cuore (L 201, L 501)	KS 86 [B]
Materia	KS 86 [B]
Move (L 601)	KS 86 [B]
Sirion	KS 86 [B]
Terios	KS 86 [B]
Travis	KS 86 [B]
Deere, John	
Standard	K 60 [B], K 23 [G]
Serie 6000	KS 62.1 [G]
Serie 6010	KS 62.1 [G]
Serie 6020	KS 62.1 [G]
Deutz motors	
KHD 1012	KS 75 [G]
KHD 1013	K 68 [G]
KHD 1015	K 24 [B]
Dodge	
Avenger	K 24 [B]
Caliber	K 24 [B]
Nitro	K 24 [B]
Viper	K 24 [B]
Fendt	
Standard	K 60 [B], K 73 [B]
Farmer 309	K 13 [B]
Type 500	K 22 [G]
Type 700 1997 →	K 22 [G]
Vehicles with Deutz motors	K 68 [G]
Ferrari	
Bayonet locking	K 60 [B]
Thread locking	K 25 [G]
Fiat	
500 2009 →	K 25 [G]
Bravo	K 25 [G]
Croma	KS 77 [G]
Doblo	K 25 [G]
Ducato 2.5 JTD	K 25 [G]
Fiorino	K 25 [G]
Grande Punto	K 25 [G]
Idea	K 25 [G]
Linea	K 25 [G]
Multipla	K 25 [G]
Panda	K 25 [G]
Punto	K 25 [G]
Qubo	K 25 [G]
Scudo	K 25 [G]
Sedici Diesel 1.9 l	KS 74 [G]

Vehicle type	Adapter
Fiat	
Seicento	K 25 [G]
Spider	KS 77 [G]
Stilo	K 25 [G]
Tempra	K 25 [G]
Tipo	K 25 [G]
Ulysse	K 25 [G]
Ford	
C-Max	KW 85 [G]
Cougar 16V	K 31 [G]
Escort 1997 →	K 31 [G]
Fiesta 1995 →	K 31 [G]
Focus	K 31 [G]
Focus 2008 →	KS 85 [G]
Fusion 2003 →	K 31 [G]
Galaxy 2001 →	KS 62.1 [G]
Galaxy 2006 →	KW 85 [G]
Grand C-Max	KW 85 [G]
GT 2006 →	KS 83 [G]
Ka 1996 →	K 31 [G]
Ka 2009 →	K 25 [G]
Kuga	KW 85 [G]
Maverick	KS 90 [B]
Mondeo B 1/1993 → 12/1998	K 31 [G]
Mondeo 1999 →	KS 61 [G]
Probe	KS 90 [B]
Ranger 2010 →	KS 98 [G]
S-Max	KW 85 [G]
Scorpio	K 31 [G]
Scorpio 1995 →	KS 61 [G]
Sierra B 115 PS 1992 →	K 31 [G]
Transit	KS 61 [G]
Hanomag-Henschel	
	K 73 [B]
Honda	
Accord	KS 90 [B]
Civic	KS 90 [B]
Concerto	K 25 [G]
CR-V	KS 90 [B]
CR-Z	KS 90 [B]
FR-V	KS 90 [B]
Insight	KS 86 [B]
Jazz	KS 90 [B]
Legend	KS 90 [B]
S 2000	KS 90 [B]
Hyundai	
Accent	KS 90 [B]
Atos	KS 90 [B]
Coupé	KS 90 [B]
Genesis	KS 90 [B]
Getz	KS 90 [B]
Grandeur	KS 90 [B]
I 10	KS 98 [B]
I 20	KS 90 [B]
I 30	KS 90 [B]
IX 35	KS 90 [B]
IX 55	KS 90 [B]
Matrix	KS 90 [B]
Santa Fe	KS 90 [B]
Sonata	KS 90 [B]
Trajet	KS 90 [B]
Tucson	KS 90 [B]
Iveco	
Standard	K 60 [B], K 73 [B]
Lkw Daily 2000 C-Serie	K 25 [G]
Euro-Star	KS 40 [G]
Euro-Tech	KS 40 [G]
Euro-Truck	KS 40 [G]
Iris	KS 40 [G]
Isuzu	
Truck, old	K 60
Lkw	KS 90 [B]
Jaguar	
old models	K 60 [B]
S-Type	K 31 [G]
X-Type	KS 61 [G]
XF	KS 83 [G]
XJ 8	KS 61 [G]
XK 8	KS 61 [G]
XJ Executive 2007 →	KS 83 [G]
XK 2007 →	KS 83 [G]
Jeep	
Cherokee	K 24 [B]
Commander	K 24 [B]
Compass	K 24 [B]

Vehicle type	Adapter
Jeep	
Wrangler	K 24 [B]
JCB	
	KS 31 [G]
Kia	
Carens	KS 90 [B]
Carnival	KS 90 [B]
Cee'd	KS 90 [B]
Magentis	KS 90 [B]
Opirus	KS 90 [B]
Picanto	KS 90 [B]
Rio	KS 90 [B]
Sorento	KS 90 [B]
Soul	KS 90 [B]
Sportage	KS 90 [B]
Venga	KS 90 [B]
Land Rover	
Defender TD 5	K 25 [G]
Discovery	K 31 [G]
Discovery 3 2005 →	KS 83 [G]
Freelander 2003 →	KS 83 [G]
Freelander 2006 →	KS 61 [G]
Freelander 2.0 DI	K 25 [G]
Range Rover	
Range Rover 25 DSF	K 42 [G]
Range Rover 2005 →	KS 32S [G]
Sport TDV 6	KS 83 [G]
Vogue TDV 6	KS 83 [G]
Lamborghini	
Gallardo	K 60 [B]
Murciélago	K 60 [B]
Lancia	
Delta	K 25 [G]
Musa	K 25 [G]
Phedra	K 25 [G]
Thesis	K 25 [G]
Ypsilon	K 25 [G]
Lanz	
	K 73 [B]
Lexus	
GS	K 74 [G]
IS	K 74 [G]
LFA	K 74 [G]
LS	K 74 [G]
RX	K 74 [G]
SC	K 74 [G]
Liebherr	
Standard	K 13 [B]
454 Litronic (Radlader)	K 91 [G]
902 Litronic	K 68 [G]
Type 904	K 43 [B]
Type A/R 924	K 71 [B]
Linde	
Forklift	K 22 [G]
H 30 Diesel Typ 393	KS 62.1 [G]
MAN, Krupp	
Standard	K13[B], K 33[B]
Krupp-Motor	K 73 [B]
F 90	KS 40 [G]
F 2000	KS 40 [G]
L 71	K 22 [G]
L 2000	K 31 [G]
TGA	KS 40 [G]
Maserati	
Bayonet locking	K 60 [B]
Thread locking	K 25 [G]
Mazda	
121	KS 86 [B]
323 → 1994	KS 90 [B]
323 1995 →	KS 86 [B]
626 → 2002	KS 90 [B]
BT 50	KS 98 [B]
Demio	KS 86 [B]
Mazda 2	KS 41 [G]
Mazda 3	KS 85 [G]
Mazda 5	KS 86 [G]
Mazda 6	KS 90 [B]
MX 5	KS 90 [B]
Premacy 2000 →	KS 90 [B]
RX 8	KS 90 [B]
Tribute	KS 61 [G]
McLaren	
	KS 105 [G]
Mercedes-Benz, Truck	
Actros	KS 40 [G]

Radiator adapter application list

Vehicle type	Adapter
Mercedes-Benz, Truck	
Atego 1217 → 1999	KS 40 [G]
Citaro (TC 400 Citybus))	KW 40 [G]
ECO 8401	KS 40 [G]
Lkw 1728	KS 40 [G]
Mercedes-Benz, Vehicle	
A-Klasse	K 82.2 [G]
B-Klasse	K 82.2 [G]
C-Klasse ← 1994	K 24 [B]
C-Klasse 1995 →	K 81 [G]
CLK	K 24 [B]
CLK 2003 →	K 81 [G]
E-Klasse	K 81 [G]
GL-Klasse	K 81 [G]
GL-Klasse (cooler)	K 24 [B]
ML-Klasse → 2005	KS 83 [G]
ML-Klasse 2006 →	K 81 [G]
R-Klasse	K 81 [G]
S-Klasse	K 81 [G]
SLK	K 24 [B]
Sprinter 1999 →	K 24 [B]
Sprinter 2006 →	KS 79 [B]
Viano 9/2003 →	KS 79 [B]
Vito	K 24 [B]
Vito 2006	KS 79 [B]
Mini	
Cooper S 2002 →	KS 78 [G]
Mini 2001 →	K 24 [B]
Mini 2008 →	K 25 [G]
Mitsubishi	
Carisma	KS 90 [B]
Carisma D → 2003	K 25 [G]
Colt B	KS 90 [B]
Colt Diesel	K 22 [G]
Eclipse	KS 90 [B]
Galant	KS 90 [B]
Grandis 2004 →	KS 86 [B]
Grandis Diesel	KS 74 [G]
L 400	KS 86 [B]
Lancer	KS 90 [B]
Outlander	KS 90 [B]
Pajero	KS 90 [B]
Pajero Pinin/Sport	KS 86 [B]
Pathfinder	KS 90 [B]
Sigma	KS 90 [B]
Space Gear	KS 86 [B]
Space Runner	KS 86 [B]
Space Star D	K 25 [G]
Space Wagon D2003 →	KS 90 [B]
Space Wagon-Pajero	KS 86 [B]
Tiida	KS 90 [B]
Nissan	
Gabelstapler	K 60 / KS 90[B]
350 Z	KS 90 [B]
370 Z	KS 90 [B]
Almera	KS 90 [B]
GT-R	KS 90 [B]
Interstar D	K 25 [G]
Kubistar 6/2003 →	K 25 [G]
Maxima	KS 90 [B]
Micra 12/1992 →	KS 90 [B]
Micra 2004 →	K 25 [G]
Murano	KS 90 [B]
Navara	KS 90 [B]
Note	KS 90 [B]
NV 200	KS 78 [B]
Pathfinder	KS 90 [B]
Patrol 2.8 l Diesel	KS 90 [B]
Pick up	KS 90 [B]
Pixo	KS 86 [B]
Primastar	K 25 [G]
Primera P11+P12	KS 90 [B]
Qashqai	K 25 [B]
Serena 1994 →	K 24 [B]
Terrano → 5/1996	K 24 [B]
Terrano 6/1996 →	KS 90 [B]
Tiida	KS 90 [B]
X-Trail	KS 90 [B]
Opel / Vauxhall	
Agila 7/2000 →	K 31 [G]
Agila 2007 →	KS 86 [B]
Antara	KS 77 [G]
Arena	KW* 23 [G]
Astra 1998 →	KS 83 [G]
Astra H 2004 →	KS 77 [G]

Vehicle type	Adapter
Opel / Vauxhall	
Calibra	K 31 [G]
Corsa B	K 31 [G]
Corsa 2007 →	KS 77 [G]
Frontera → 1998	K 31 [G]
Frontera B+TD 1999 →	K 61 [G]
Meriva 2005 →	K 31 [G]
Insignia	KS 77 [G]
Monterey (Jap. Mod.)	KS 90 [B]
Movano	K 25 [G]
Omega B-Series 1994 →	KS 49 [G]
Omega Gasoline + Diesel	K 31 [G]
Signum	KS 77 [G]
Sintra 1997 →	KS 83 [G]
Tigra	K 31 [G]
Vectra A	KS 49 [G]
Vectra B	K 31 [G]
Vectra C 2002 →	KS 77 [G]
Vivaro	K 23 [B]
Zafira 2001 →	K 31 [G]
Zafira 2005 →	KW 77 [G]
Peugeot	
106	K 50 [B]
107 2006 →	KS 86 [B]
205 D	K 39 [B]
205 GTI	KS 36 [G]
206 → 1999	K 25 [G]
206 2000 →	K 25 [G]
207	K 25 [G]
306 1997 →	K 60 [B]
307 2004 →	K 25 [G]
308	K 25 [G]
309 D	K 39 [B]
405 1997 →	K 60 [B]
406 → 1999	K 25 [G]
406 D 1997 →	K 60 [B]
407 2004 →	K 25 [G]
607 2004 →	K 25 [G]
806 (Gasoline + Diesel)	K 60 [B]
807 2004 →	K 25 [G]
1007	K 25 [G]
3008	K 25 [G]
4007	KS 90 [B]
Boxer 2.5 D → 1999	K 25 [G]
Expert	K 25 [G]
Partner	K 25 [G]
Porsche	
911	K 22 [G]
924	K 60 [B]
928	K 60 [B]
944	K 60 [B]
968	K 60 [B]
996	K 22 [G]
Carrera GT	K 22 [G]
Cayenne 2002 →	K 65 [G]
Cayman	K 22 [G]
Boxster	K 22 [G]
Panamera	KS 65 [G]
Proton	
313	K 90 [B]
316	K 90 [B]
318 GTI	K 90 [B]
413	K 90 [B]
416	K 90 [B]
Renault	
Truck Midlum	K 22 [G]
Avantime 2002 →	K 25 [G]
Clio	K 25 [G]
Espace	K 25 [G]
Kangoo	K 25 [G]
Koleos	KS 90 [B]
Laguna	K 25 [G]
Master	K 25 [G]
Mégane	K 25 [G]
Modus	K 25 [G]
Rapid Diesel 1990 →	K 25 [G]
Safrane	K 25 [G]
Scénic	K 25 [G]
Trafic	K 25 [G]
Twingo	K 25 [G]
Vel Satis	K 25 [G]
Rover	
216i Cabriolet	K 25 [G]
420si	K 25 [G]
620ti	K 25 [G]

Vehicle type	Adapter
Rover	
620si 1997 →	KS 86 [B]
Diesel 2.5 l	K 32 [G]
Metro 115	K 25 [G]
Metro 200	K 25 [G]
Metro 400	K 25 [G]
Metro Diesel	K 31 [G]
Mini	K 60 [B]
Rover 75	KS 32S [G]
Rover 200	K 23 [G]
Rover 200/400 RT-RS	K 25 [G]
Rover 600	KS 86 [B]
Rover 800	K 25 [G]
Rover 2000	K 25 [G]
Rover 6000	KS 90 [B]
SD 1	K 60 [B]
Saab	
900 → 1993	K 25 [G]
900 1994 → (Opel)	K 31 [G]
9000 → 1996	K 60 [B]
Models 1999 →	KS 61 [G]
9/3	KS 77 [G]
9/5	KS 77 [G]
Samsung	
SE 130 LS (chain excavators 4 cylinder)	K 73 [B]
Scania	
Standard	K 43[B], KS 49[G], KS 41[G]
Models 112, 1985 → 88	K 73 [B]
Models 112, 1988 →	KS 49 [G]
Models 113, 114, 124, 144	KS 59 [G]
Models 143, 1998 →	KS 49 [G]
Vobis 4	K 60 [B], K 73[B]
Seat	
Alhambra	KS 62.1 [G]
Altea	KS 65 [G]
Arosa	KS 38 [G]
Cordoba	KS 38 [G]
Exeo	KS 65 [G]
Ibiza 1999 →	KS 38 [G]
León 2000 →	KS 38 [G]
Toledo 1998 →	KS 65 [G]
Vario	KS 38 [G]
Skoda	
Models 1997 →	KS 38 [G]
Fabia	KS 65 [G]
Felicia 1999 →	K 31 [G]
Octavia	KS 65 [G]
Praktik	KS 65 [B]
Roomster	KS 65 [G]
Superb	KS 65 [G]
Yeti	KS 65 [G]
Smart	
forfour	KS 90 [B]
fortwo	K 22 [G]
Roadster	K 22 [G]
SsangYong	
Actyon 06 →	KS 96 [G]
Korando → 01	KS 90 [B]
Korando 02 →	KS 96 [G]
Kyron 05 →	KS 96 [G]
Musso → 01	KS 90 [B]
Musso 02 →	KS 96 [G]
Rodius 05 →	KS 96 [G]
Rexton 01 →	KS 96 [G]
Subaru	
B9 Tribeca	KS 86 [B]
Forester	KS 90 [B]
Impreza	KS 90 [B]
Justy	KS 86 [B]
Legacy	KS 90 [B]
Outback	KS 90 [B]
Suzuki	
A-Star	KS 104
Alto	KS 86 [B]
Baleno	KS 90 [B]
Ignis	KS 90 [B]
Jimny	KS 90 [B]
Liana	KS 90 [B]
Samurai	K 60 [B]
Swift	KS 86 [B]
SX 4	KS 86 [B]
Vitara	K 60 [B]
Wagon-R	KS 90 [B]

Radiator adapter application list

Vehicle type	Adapter
Suzuki	
X-90	K 60 [B]
Toyota	
AE 101	KS 90 [B]
Auris	KS 74 [G]
Avensis	KS 90 [B]
Avensis CR*** 2001 →	KS 74 [G]
Aygo	KS 86 [B]
Camry 1996 →	K 58 [B]
Carina E 1998 →	KS 90 [B]
Celica	KS 86 [B]
Celica 1996 →	K 58 [B]
Corolla	KS 86 [B]
Hilux	KS 74 [B]
iQ	KS 86 [B]
Landcruiser 300D	KS 74 [G]
MR 2	KS 74 [G]
Prius	KS 90 [B]
Prius Hybrid	KS 74 [B]
RAV 4 2008 →	KS 86 [B]
RAV 4 2009 →	KS 74 [B]
Starlet	KS 86 [B]
Urban Cruiser (Diesel)	KS 74 [B]
Urban Cruiser (Ottomotor)	KS 86 [B]
Verso	KS 74 [G]
Yaris	KS 86 [B]
Triumph	
	K 60 [B]
Unimog	
Standard	K 73 [B]
Volvo	
Truck FE	K 22 [G]
Truck FH	KS 66 [G]
Truck FL	K 22 [G]
850	K 25 [G]
960	K 25 [G]
C 30	KS 85 [G]
C 70	K 25 [G]
C 70 2008 →	KS 85 [G]

Vehicle type	Adapter
Volvo	
S 40 2003 →	K 25 [G]
S 40 2004 →	KS 85 [G]
S 60 → 2007	K 25 [G]
C 60 2008 →	KS 85 [G]
S 80 → 2007	K 25 [G]
S 80 2008 →	KS 85 [G]
V 40 → 2003	K 25 [G]
V 50	KS 85 [G]
V 70 → 2007	K 25 [G]
V 70 2008 →	KS 85 [G]
XC 60	KS 85 [G]
XC 70	KS 85 [G]
XC 90	K 25 [G]
XC 90 2008 →	KS 85 [G]
VW	
Amarok	KS 65 [G]
Bora	KS 65 [G]
Caddy → 1996	KS 38 [G]
Caddy 1997 →	KS 65 [G]
Crafter	KS 65 [G]
Eos	KS 65 [G]
Fox	KS 65 [G]
Golf I + II	K 22 [G]
Golf III 1993 →	KS 38 [G]
Golf IV 1998 →	KS 65 [G]
Golf V 2004 →	KS 65 [G]
Golf VI → 2008	KS 65 [G]
Jetta → 1997	KS 65 [G]
Jetta 1991 →	KS 38 [G]
Jetta 2007 →	K 65 [G]
LT 28/30/35	KS 65 [G]
Lupo	KS 65 [G]
New Beetle	KS 65 [G]
Passat → 1996	KS 38 [G]
Passat 1997 →	KS 65 [G]
Passat CC	KS 65 [G]
Phaeton	KS 65 [G]
Polo → 1996	KS 38 [G]

Vehicle type	Adapter
VW	
Polo 1997 →	KS 65 [G]
Sharan → 2010	KS 62.1 [G]
Sharan 2010 →	KW 65
Scirocco → 1993	K 22 [G]
Scirocco 2008 →	KS 65 [G]
T4	KS 38 [G]
T5	KS 65 [G]
Taro	KS 90 [B]
Tiguan	KS 65 [G]
Touran	KS 65 [G]
Touareg	KS 65 [G]
Vento 1993 →	KS 38 [G]
Vento 1998 →	KS 65 [G]
Yale (Forklift)	
GDP/GLP 16-30, code B810 + A875	KS 90 [B]
GDP/GLP 35-55, code C813	K 73 [B]

Cooling syst.test device kit for cars

- For diagnosis of leaks in the cooling system
- Suitable adapters for all common vehicle types
- Fast assembly and dismantling with a quick-release coupling system

Measuring range:

- Pump: 0 – 2.5 bar
- Not compatible with Leitenberger

Article No.	Article Description	QTY
5377 18	CAR COOL.SYST.TEST.DEV.18-PCE	1



Cooling system test and filling device kit cars

- For diagnosis of leaks in the cooling system
- Suitable adapters for all common vehicle types
- Fast assembly and dismantling with a quick-release coupling system

Measuring range:

- Pump: 0 - 2.5 bar
- Vacuum filling device: -1 - 0 bar
- Not compatible with Leitenberger
- Vacuum filling device for fast, no-bubble filling of cooling systems after replacement of radiator, thermostat, hoses, etc

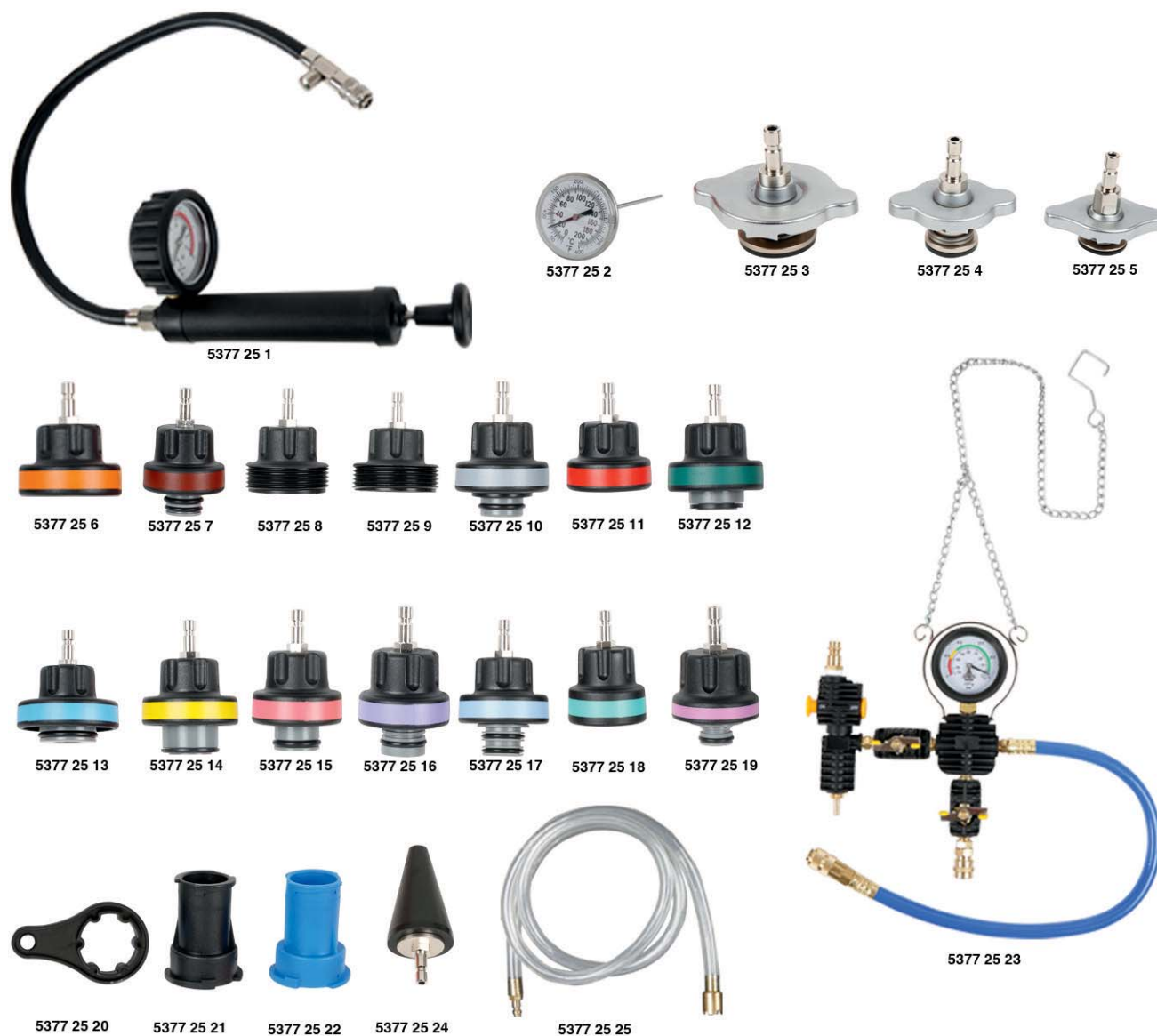
Article No.	Article Description	QTY
5377 25	COOL.SYST.INSF.KIT CARS 25-PCS	1

Contents:

- 1× pump with pressure gauge
- 1× analogue thermometer
- 1× adapter wrench
- 1× radiator cap - tester, black
- 1× radiator cap - tester, blue
- 1× vacuum filling device for radiators
- 1× universal adapter, black
- 1× hose for vacuum filling device
- 17× adapters numbers 3 – 19



Spare parts f.Cool.Syst.Test.-a. Fill.Device Veh.



Article No.	Article Description	QTY
5377 25 1	PUMP WITH MANOMETER	1
5377 25 2	THERMOMETER ANALOG	1
5377 25 3	ADAPTER NO. 3 STEEL	1
5377 25 4	ADAPTER NO. 4 STEEL	1
5377 25 5	ADAPTER NO. 5 STEEL	1
5377 25 6	ADAPTER NO. 6 ORANGE	1
5377 25 7	ADAPTER NO. 7 BROWN	1
5377 25 8	ADAPTER NO. 8 WHITE	1
5377 25 9	ADAPTER NO. 9 PINK	1
5377 25 10	ADAPTER NO. 10 GREY	1
5377 25 11	ADAPTER NO. 11 RED	1
5377 25 12	ADAPTER NO. 12 GREEN	1
5377 25 13	ADAPTER NO. 13 BLUE	1

Article No.	Article Description	QTY
5377 25 14	ADAPTER NO. 14 YELLOW	1
5377 25 15	ADAPTER NO. 14 ROSE	1
5377 25 16	ADAPTER NO. 16 LILAC	1
5377 25 17	ADAPTER NO. 17 LIGHT-BLUE	1
5377 25 18	ADAPTER NO. 18 MINT-GREEN	1
5377 25 19	ADAPTER NO. 19 PINK	1
5377 25 20	ADAPTER KEY	1
5377 25 21	COOLER CAPS-TESTER BLACK	1
5377 25 22	COOLER CAPS-TESTER BLUE	1
5377 25 23	VACUUM FILLER DEVICE F.COOLER	1
5377 25 24	UNIV.ADAPTER BLACK 17-44 MM	1
5377 25 25	HOSE FOR VACUUM FILLER DEVICE	1

Cooler-adapter application list

Adapter no.	Vehicle Manufacturer	Vehicle Type
3	Buick	LeSabre 1990 – / Park Avenue 1991 –
	Chrysler	Sebring 1995 –
	Chevrolet	Venture 1997 –
	Dodge	Caravan 1989 – / Dakota 1989 – / Startus 1995 –
	Jeep	div. models
	Mercedes Benz	W123 / W124 / W126 / W201
	Oldsmobile	Silhouette 1990 –
	Pontiac	Bonneville 1990 – / Grand Prix – 2003
4	Acura	Integra 1990 – 1993
	Chevrolet	Nova 1985 – 1998 / Spectrum 1985 – 1988 / Sprint 1985 – 1988
	Chrysler	Laser 1991 – 1998
	Dodge	Colt 1984 – 1992 / Stealth 1991 – 1996
	Eagle	Talon 1991 – 1998
	Ford	Escort 1991 – 1999 / Explorer 1995 – 2001 / Fiesta 1988 – 1993 Probe 1989 – 1997 / Ranger 1987 – / Tempo 1992 – 1994 / Windstar 1995 – 1999 / Thunderbird 1989 – 1992
	Geo	Metro 1989 – 1994 / Prizm 1998 / Tracker 1989 – 1993
	GM	Nova / Spectrum / Sprint
	Honda	Accord 1990 – 1993 / Civic 1988 – 1991 / motorcycle 1991 – 2004 / Passport 1994 – 1999 / Prelude 1990 – 1998
	Hyundai	All vehicles 1987 –
	Infiniti	All vehicles 1992 –
	Isuzu	All vehicles 1992 – 1997
	Kia	Sedona 2003 –
	Lexus	LS 400 1990 – 1999 / LX 450 1996 – 1999 / LX 470 1996 – 1999 ES 1994 – 1999
	Mazda	All vehicles from 1985-1999 (beside Protege 1.5 ltr) / MPV 1990 –
	Mercury	Cougar 1989 – 1997 / Topaz 1992 – 1994 / Tracer 1991 – 1999 Villager 1993 – 1999
	Mitsubishi	3000 GT 1991 – 1998 / Diamante 1992 – 1995 / Galant 1985 – 1993 / Mirage 1985 – 1992 / Montero 1989 – 1998 / Starion 1989 – 1993
	Mercedes Benz	div. models
	Nissan	All vehicles 1987 –
	Subaru	All vehicles 1984 –
	Suzuki	All vehicles 1983 – 1995
	PSA	div. models – 1999
	Toyota	Corolla 1983 – 1992 / Starlet 1983 – 1984 / Tacoma 1995 – Tercel 1983 – 1990 / 4Runner 1986 – 1995 / Avalon 1995 – Camry 1983 – 1999 / Cressida 1985 – 1992 / Solara 1998 – Land Cruiser 1987 – / Pickup 1983 – 1992 / T100 1995 – 1998 / Sienna 1998 – 1999 / Supra L 1986 – 1992 / Previa 1989 – 1997 / Celica 1982 – 1989
5	Acura	CL 1997 – / Integra 1994 – 1999 / Legend 1991 – 1996 / MDX 2001 – / TL 1995 –
	Chevrolet	Metro – 1998 / Prizm 1998 / Tracker 1998
	Dodge	Colt 1993 – 1994
	Eagle	Summit 1993 – 1995
	Geo	Metro 1995 – 1998 / Prizm 1998 – / Tracker 1994 – 1998
	Honda	Accord 1994 – / Civic 1991 – / Odyssey 1995 – / Pilot 2003 –

Cooler-adapter application list

Adapter no.	Vehicle Manufacturer	Vehicle Type
5	Isuzu	all 1998 –
	Lexus	GS 400 1998 – 1999 / ES 250 1990 – 1991 / ES 300 1992 – 1993 / GS 300 1993 – 1999
	Mercedes Benz	W 163
	Mitsubishi	Diamante 1996 – / Galant 1994 – / Mirage 1993 – / Montero Sport 1997 –
	Suzuki	XL- 7 2001 – / Alle 1989 – 1999
	Toyota	4Runner 1996 – / Camry V6 1990 – 1991 / Celica 1990 – 1998 / Corolla 1993 – / Echo 2000 – / Paseo 1992 – 1997 / RAV4 1996 – / Supra Turbo 1990 – 1992 / Tercel 1991 – 1999
6	Cadillac	Catera 1997 – 2001
	Daewoo	all 1999 – 2001
	Ford	Contour 1995 – 2000 / Fiesta 1995 – / Focus 1998 – / Fusion 2006 –
	Jaguar	all 1990 – 1994 / X-Type 2002 –
	Jeep	div. models
	Land Rover	Discovery 1989 – 2004 / Range Rover 1988 – 1994
	Mercedes Benz	W 164
	Mercury	Mystique 1995 – 2000
	Pontiac	Le Mans 1988 – 1993
	Porsche	911 1999 – / Boxter 1997 –
	Saab	900 1994 – 1998
	Saturn	L Series 2000
7	Alfa Romeo	div.models
	Citroën	div.models
	Fiat	div.models
	Mini Cooper	S 2002 –
	Peugeot	206 1999 – / 307 2004 – / 406 1999 – / 407 2004 – / 807 2004 –
	Renault	all 1985 – 1987 / Avantime 2002 – / Espace 2002 -
	Saab	900 1978 – 1993 / 9000 1986 – 1998
	Sterling	all 1987 – 1991
	Jeep	div.models
	Volvo	div.models
8	VW	Vento / T4 / Beetle / Sharan (1990 – 1998) / Passat 1996 – 1998 Golf 1993 – 1998 / Eurovan 1990 – 2003
9	Audi	A4 1996 – / A5 / A6 1998 – / A8 1997 / TT 2000 –
	Porsche	Cayenne
	VW	Beetle 1998 – / Golf 1999 – / Jetta 1999 – / Passat 1998 –
10	BMW	3 Serie 1998 – (E36, E46, E90) / 5 Serie 1997 – 2003 (E34, E39) 7 Serie (E 32, E 38)
11	Audi	all 1975 – 1993
	VW	all 1975 – 1993 / Golf 1983 – 1992
12	Ford	Mondeo – 1999
	Land Rover	div.models
	Opel	div.models
	Ssangyong motor	div.models
13	Chrysler	Crossfire 2004 –
	Mercedes Benz	W140, W220, W124, W210, W211, W215, W216, W221, R230

Cooler-adapter application list

Adapter no.	Vehicle Manufacturer	Vehicle Type
14	Ford	Mondeo 2000 – 2007 / Focus (C MAX) 2000 – 2007
15	Ford	Focus 2008 – 2011 / Mondeo 2008 – 2009
	Mazda	3 2004 – 2011
16	Mercedes Benz	W168, Vito
17	BMW	E60, E63, E64, E65
18	VW	Sharan 1,8 T / 2,8
19	Toyota	Celica 2000 – / RAV4 / Previa / MR2 Spider 2010 –

Cooling System Test Device Kit for Trucks

- For diagnosis of leaks in the cooling system
- 7 radiator adapters for all commonly used makes of truck, e.g. DAF, IVECO, MAN, Mercedes-Benz, Scania, Renault and Volvo
- Fast assembly and dismantling with a quick-release coupling system
- Optimum and secure seat, as per the original cap
- Robust metal hand pump and pressure gauge with rubber protection cap
- Measuring range 0 - 2.5 bar



Article No.	Article Description	QTY
5377 8	TRUCK COOL SYST.INSPE.SET 9-PCE	1

- 1x Pump
- 1x Hose for pump
- 7 x Adapters

Test Device Components f.Truck Cooling System



Article No.	Article Description	QTY
5377 8 1	PUMP F.TRUCK C.SYST.TEST-SET	1
5377 8 2	HOSE F.TRUCK C.SYST.TEST-SET	1
5377 8 3	ADAPTER NO.3 TRUCK C.SYS.T-SET	1
5377 8 4	ADAPTER NO.4 TRUCK C.SYS.T-SET	1
5377 8 5	ADAPTER NO.5 TRUCK C.SYS.T-SET	1
5377 8 6	ADAPTER NO.6 TRUCK C.SYS.T-SET	1
5377 8 7	ADAPTER NO.7 TRUCK C.SYS.T-SET	1
5377 8 8	ADAPTER NO.8 TRUCK C.SYS.T-SET	1
5377 8 9	ADAPTER NO.9 TRUCK C.SYS.T-SET	1

Cooler-adapter application list

Vehicle Type	Adapter
DAF	
LF 55 2001 →	6
XF 95 2002 – 2006	7
XF 105 2005 →	7
Deutz	
1015	3
ERF	
EC Range 1996 – 2003	7
Iveco	
Eurocargo 1991 →	6
Eurostar 1993 – 2001	6
EuroTech 1993 – 2001	6
EuroTrakker 1993 – 2001	6
EuroTrakker Cursor 2002 →	6
EuroTrakker Cursor 13 2001 →	6
EuroTruck	6
Stalis Crusor 2002 →	6

Vehicle Type	Adapter
MAN	
E2000 2002 →	6
F2000 1995 – 2003	6
F90 1987 – 1996	6
L2000 1993 – 200	5
EC Range 1996 – 2003	6
TGA 2000 →	5/8
TAG / L / M S 2005 →	6
Mercedes-Benz	
Actros 1997	6
Atego 1998	6
Axor 2001	6
Eco 8401	6
IKW 1728	6
Sprinter → 2006	3
Vito → 2006	3

Vehicle Type	Adapter
Renault	
Kerax 1999 →	5/8
Magnum 1990 – 2003	5/8
Midlum 2000 →	5/8
Premium 1997 →	5/8
Scania	
4 Series 1995 – 2004	9
93	9
94 1996 – 2004	9
113	9
114 1996 – 2004	9
124 1996 – 2004	9
144 1996 – 2002	9
164 1999 – 2004	9
Volvo	
FH12 1993 →	4/6
FL 2000 →	6
FM 1998 →	6

Turbo bead breaker set for passenger vehicles

- 8 parts.
- For rapid diagnostics on the charge air system
- Locate leaks quickly and easily
- Leaks can be detected audibly and visually (using leak detector, Art.-No. 6730 0800)
- The system can be observed over a longer period of time using the pressure gauge on the adapter
- The multi-stage remote adapters are suitable for most common charge-air system hoses
- Tyres are filled using a hand-held tyre filler – no special tools required
- Professional, time-saving troubleshooting

Article No.	Article Description	QTY
4920 3	TURBO ABDRÜCKER-SET PKW 8TLG	1
4920 3 55	TURBO ADAPT.55/60MM PKW 2TLG	1
4920 3 65	TURBO ADAPT.65/70MM PKW 2TLG	1
4920 3 75	TURBO ADAPT.75/80MM PKW 2TLG	1
4920 3 85	TURBO ADAPT.85/90MM PKW 2TLG	1



Turbo bead breaker set for trucks

- 6 parts
- For rapid diagnostics on the charge air system
- Locate leaks quickly and easily
- Leaks can be detected audibly and visually (using leak detector, Art.-No. 6730 0800)
- The system can be observed over a longer period of time using the pressure gauge on the adapter
- The multi-stage remote adapters are suitable for most common charge-air system hoses
- Tyres are filled using a hand-held tyre filler – no special tools required
- Professional, time-saving troubleshooting

Article No.	Article Description	QTY
4920 5	TURBO BEAD BR.SET TRUCK 6-PART	1
4920 5 105	TURBO ADAP.105/110MM 2-PCE	1
4920 5 115	TURBO ADAP.115/120MM 2-PCE	1
4920 5 125	TURBO ADAP.125/130MM 2-PCE	1



Radio Dismounting Tool Set, 22-Piece

- For mounting and dismounting of Blaupunkt, Grundig, Philips and Becker radios
- New clamps suitable for the latest Blaupunkt radios as well as for Sony, JVC, Pioneer, Medion, Panasonic, VDO Siemens and LG radios
- Also for the mounting and dismounting of car radio of the following brands:
 - VW, Audi, Seat, Skoda
 - BMW
 - Ford
 - Mercedes-Benz
 - Opel
 - Porsche
 - Volvo



Article No.	Article Description	QTY
4913 22	RADIO DISMOUNT.TOOL SET 22-PA.	1

Door Opener Kit

- Emergency tool kit for opening car doors from outside
- Usable for most common vehicles



Article No.	Article Description	QTY
4913 1	DOOR OPENER KIT 16-PART	1

Set consists of:

- 11x Various opening wires
- 2x Various sheets
- 1x Plastic tape for door lock knobs
- 1x Nylon wedge
- 1x Universal key for tank locks

Squeezing Pliers for Exhaust Pipe Elastic

- For rapid disassembly of the rubber mount at exhaust systems
- Length: 360 mm
- Dipped single component handles
- Black varnished tool steel



Article No.	Article Description	QTY
4935 360	SQU. PLIERS F.EXHAUST ELASTIC	1

Pedal Device

- For holding of brakes, gas pedals or clutch pedal
- Length: 61 cm to 73.5 cm

Article No.	Article Description	QTY
4930 6	PEDAL DEVICE	1



Exhaust Rubber-Hooks

- For quick mounting/demounting of the holding rubber at exhaust systems

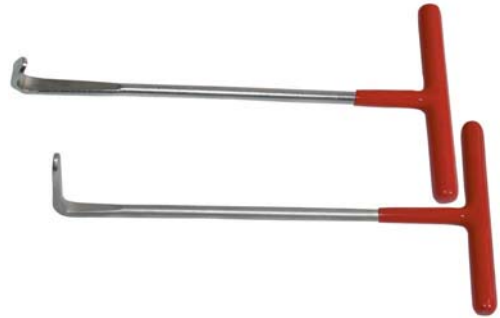
Art. No. 4935 10:

- Application: VW/Audi, Mercedes, Opel, Japanese vehicles etc.

Art. No. 4935 11:

- Application: Ford, BMW etc.

Article No.	Article Description	QTY
4935 10	EXHAUST RUBBER-HOOKS 25X200MM	1
4935 11	EXHAUST RUBBER-HOOKS 45X200MM	1



Clamping Spring-Tightener

- For mounting and demounting of steel clamps at the ball flange of VW-exhaust-systems
- Max. clamping range 77 mm
- Length 155 mm

Article No.	Article Description	QTY
4935 20	CLAMP-SPRING-TIGHT.FOR VW/AUDI	1



Shock Absorber-Spanner Set

- For the opposite supporting of the shock absorber piston rod at a simultaneous loosening or tight screwing of the piston rod nut on MacPherson spring strut type axle

Article No.	Article Description	QTY
4930 4	SHOCK ABSORB.SPANNER SET 39(P)	1

Contents:

- 1x Special socket wrench
 Sizes: 14/16/17/18/19/21/22/27 mm
 Application: Nissan, VW, Audi, Seat, Fiat, Citroen, Peugeot, Renault, Toyota, Nissan, Honda
- Pin spanner
 Sizes: 10.5/12.5/14/14.5/14.5 mm
 Application: VW, Audi, Mercedes
- Bit inserts 2 flat
 Sizes: 4/5.2/6/6.3/7/8/9/10/12 mm
 Application: Nissan, VW, Audi, Renault, Seat, Fiat, Honda, Toyota
- Bit inserts Allen
 Sizes: 5/6/7/8 mm
 Application: Seat, Fiat, Citroen, Peugeot, Renault, Opel, Nissan, Honda, Mazda, Toyota, Mercedes
- Bit inserts Allen with inside drilling
 Sizes: 5/6/7/8 mm
 Application: Seat, Fiat, Citroen, Peugeot, Renault, Opel, Nissan, Honda, Mazda, Toyota, Mercedes
- Bit inserts slot
 Sizes: 3/3.5/4 mm
 Application: Opel, Renault, Citroen, Peugeot
- Bit insert "D"
 Sizes: 5/10 mm
 Application: Nissan
- Bit insert XZN M12
 Application: Opel
- Bit inserts Torx
 Sizes: T50/T60
 Application: VW, Audi



Control Laser for Track/Camber in Passenger Cars

- Chassis repair/adoption of track and camber without axle alignment
- Suitable for all passenger cars
- Easy to handle



Article No.	Article Description	QTY
4930 2	CAR CONTR.LASER F.TRACK/CAMBER	1

Included:

- 1 Replacement laser product no. 4930 2 1

Kraft - Ball Joint Extractor

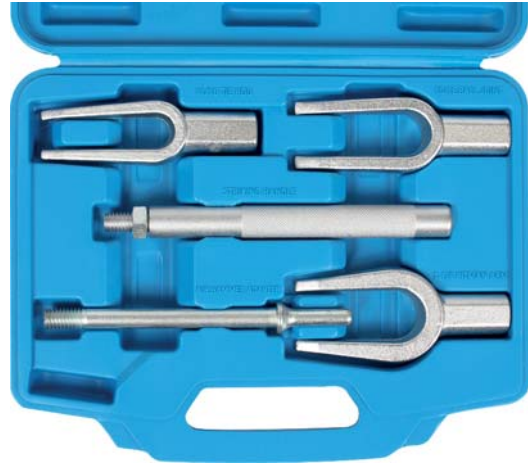
- 1/2" drive
- For ejection of ball joints on tie rods
- Suitable for impact wrench



Article No.	Article Description	QTY
4930 10	KRAFT-BALL JOINT EXTRACTOR	1

Release fork tool set

- 5-part set in plastic case
- Ideal tool for disassembly of wishbones, tie rods, stabilizers, ball joints and rod ends
- For many passenger cars and light trucks
- Handles and forks optional screwed together
- 1/2" UNC mounting thread
- Forged tool steel



Article No.	Article Description	QTY
5351 25	RELEASE FORK TOOL SET 5-PART	1

Scope of delivery - 1 of each:

- Art.-No. 5351 25 1: Release fork 17.4 mm
- Art.-No. 5351 25 2: Release fork 23.8 mm
- Art.-No. 5351 25 3: Release fork 28.5 mm
- Art.-No. 5351 25 4: Adapter for handle
- Art.-No. 5351 25 5: Adapter for air hammer Vibro

Release fork tool set individual parts

Art.-No. 5351 25 1:

- Finish handle, 17.4 mm opening, 1/2" UNC thread

Art.-No. 5351 25 2:

- Finish handle, 23.8 mm opening, 1/2" UNC thread

Art.-No. 5351 25 3:

- Finish handle, 28.5 mm opening, 1/2" UNC thread

Art.-No. 5351 25 4:

- Handle with knurled grip, with 1/2" UNC thread, length 195 mm

Art.-No. 5351 25 5:

- Handle adapter for compressed air hammer Vibro, with 1/2" UNC thread, length 175 mm



Article No.	Article Description	QTY
5351 25 1	RELEASE FORK 17.4MM 1/2"UNC	1
5351 25 2	RELEASE FORK 23.8MM 1/2"UNC	1
5351 25 3	RELEASE FORK 28.5MM 1/2"UNC	1
5351 25 4	ADAPTER FOR HANDLE 1/2"UNC	1
5351 25 5	ADAPTER FOR VIBROHAMMER 1/2"UNC	1

Cardan shaft socket set, 9 pieces.

- 1/2" drive
- for loosening and tightening 12-point nuts on drive shafts
- loosening and tightening Allen profiles in cardan shafts
- For use e.g. on Golf, Polo, Seat, Skoda, Audi, BMW, Mercedes-Benz

Article No.	Article Description	QTY
4930 94	CARDAN SHAFT SOCKET SET 9-PCE	1

Contains 1 each of:

- Art.-No. 4930 14 1: 1/2" drive socket, Allen size 14
- Art.-No. 4930 17: 1/2" drive socket, Allen size 17
- Art.-No. 4930 19: 1/2" drive socket, Allen size 19
- Art.-No. 4930 24: 1/2" drive socket, 12-point size 24
- Art.-No. 4930 27: 1/2" drive socket, 12-point size 27
- Art.-No. 4930 30: 1/2" drive socket, 12-point size 30
- Art.-No. 4930 32: 1/2" drive socket, 12-point size 32
- Art.-No. 4930 34: 1/2" drive socket, 12-point size 34
- Art.-No. 4930 36: 1/2" drive socket, 12-point size 36



Cardan Shaft Socket Set, Individual Parts

Article No.	Article Description	QTY
4930 14 1	1/2"KRAFT-SOCK.WR.ALL.KEY SW14	1
4930 17	1/2"KRAFT-SOCK.WR.ALL.KEY SW17	1
4930 19	1/2"KRAFT-SOCK.WR.ALL.KEY SW19	1
4930 24	1/2"KRAFT-SOCK.WR.ALL.KEY SW24	1
4930 27	1/2"KRAFT-SOCK.HEX SIZE 27	1
4930 30	1/2"KRAFT-SOCK.WR.HEX SIZE 30	1
4930 32	1/2"KRAFT-SOCK.WR.BIHEXAG.SW32	1
4930 34	1/2"KRAFT-SOCK.WR.HEX SIZE 34	1
4930 36	1/2"KRAFT-SOCK.WR.HEX SIZE 36	1



4930 14 1
4930 17
4930 19

4930 24
4930 27
4930 30
4930 32
4930 34
4930 36

Universal shaft socket wrench set 3/4"

- 3/4" drive
- in plastic case with VAROsoft system 9026 732
- 120 mm long, for deep lying bolt connection
- release and tighten the 12-edges nuts on the drive shafts
- release and tighten the hexagon socket profile in the drive shafts
- use e.g. with Golf 4, Polo, Seat, Skoda, Audi, BMW, Mercedes

Article No.	Article Description	QTY
4930 93	3/4"GELENKWELL.ST.SCHL.SA.8TLG	1

Each contains 1x:

- 4930 93 14 3/4" impact socket Allen 14/120L
- 4930 93 17 3/4" impact socket Allen 17/120L
- 4930 93 19 3/4" impact socket Allen 19/120L
- 4930 93 24 3/4" impact socket 12-edge 24/120L
- 4930 93 27 3/4" impact socket 12-edge 27/120L
- 4930 93 30 3/4" impact socket 12-edge 30/120L
- 4930 93 32 3/4" impact socket 12-edge 32/120L
- 4930 93 36 3/4" impact socket 12-edge 36/120L



Cardan Shaft Sockets, 3/4" Individual Parts

Article No.	Article Description	QTY
4930 93 14	3/4"DRIVE SOCKET ALLEN 14/120L	1
4930 93 17	3/4"DRIVE SOCKET ALLEN 17/120L	1
4930 93 19	3/4"DRIVE SOCKET ALLEN 19/120L	1
4930 93 24	3/4"DRIVE SOCKET ALLEN 24/120L	1
4930 93 27	3/4"DRIVE SOCKET ALLEN 27/120L	1
4930 93 30	3/4"DRIVE SOCKET ALLEN 30/120L	1
4930 93 32	3/4"DRIVE SOCKET ALLEN 32/120L	1
4930 93 36	3/4"DRIVE SOCKET ALLEN 36/120L	1



4930 93 14
4930 93 17
4930 93 19

4930 93 24
4930 93 27
4930 93 30
4930 93 32
4930 93 36

Kraft Socket Set XZN VAG

- 1/2"
- Suitable for impact wrench

Application:

- M 14 e.g. brake support plate, back Passat C3, upper brake support plate, front Passat C3
- M 16 e.g. Touareg and Phaeton from 2003, brake system, camshaft driving wheel, brake caliper back
- M 18 e.g. Touran from 2004, Audi A3 from 2004, mounting and dismounting of wheel bearing/wheel hub

Article No.	Article Description	QTY
4930 92	KRAFT SOCK.WREN.SET XZN 7-PART	1

Contents:

- 1x Art. No. 4930 92 1 3/4" Kraft adapter SW24
- 1x Art. No. 4930 92 14 1/2" Kraft socket wrench XZN M 14
- 1x Art. No. 4930 92 14 1 1/2" Kraft socket wrench XZN M 14 LG
- 1x Art. No. 4930 92 16 1/2" Kraft socket wrench XZN M 16
- 1x Art. No. 4930 92 16 1 1/2" Kraft socket wrench XZN M 16 LG
- 1x Art. No. 4930 92 18 1/2" Kraft socket wrench XZN M 18
- 1x Art. No. 4930 92 18 1 1/2" Kraft socket wrench XZN M 18 LG



Impact Socket Set XZN VAG, Individual Parts

Article No.	Article Description	QTY
4930 92 14	1/2"IMPACT SOCKET XZN M14	1
4930 92 14 1	1/2"IMPACT SOCKET XZN M14 LG	1
4930 92 16	1/2"IMPACT SOCKET XZN M16	1
4930 92 16 1	1/2"IMPACT SOCKET XZN M16 LG	1
4930 92 18	1/2"IMPACT SOCKET XZN M18	1
4930 92 18 1	1/2"IMPACT SOCKET XZN M18 LG	1
4930 92 1	1/2"IMPACT ADAPTER SIZE 24	1



4930 92 14
4930 92 16
4930 92 18

4930 92 14 1
4930 92 16 1
4930 92 18 1

4930 92 1

Spring Tightener

- For MacPherson-spring legs
- TÜV-tested
- Max. spread: 325 mm
- The spring holders are provided with safety beads which keep the spring in a safe position
- Plastic coating prevents damage of the spring

Art. No. 4931 1:

- Max. capacity 1,500 kg

Art. No. 4931 5:

- Max. capacity: 1,800 kg
- Impact wrench applicable up to max. 120 Nm
- with safety-rope

Article No.	Article Description	QTY
4931 1	SPRING TIGHTENER 1500KG COMPL.	1
4931 5	SPRING TIGHTENER 1800KG COMPL.	1
4931 5 1	SAFETY ROPE FOR SPR.THIGHTENER	1


Included in delivery:

- One pair of spring holder:
- Ø 80 – 145 mm
- Ø 145 – 195 mm

Spring Holder

- With plastic coating
- Suitable for spring tightener 1100 kg and 2250 kg

Technical Data

Art.-No.	Application/spring Ø
4931 12	80–120 mm
4931 13	80–145 mm
4931 14	140–175 mm
4931 15	145–195 mm
4931 16	145–195 mm for Honda CRV and FRV
4931 18	Peugeot 305, Citroën C15
4931 20	For conical springs, 80–145 mm
4931 21	BMW E 39/46
4931 22	Mercedes-Benz W 203/204
4931 23	Mercedes-Benz W 211
4931 24	Mercedes-Benz W 204/205 and 207 (E Class)
4931 25	Renault Twingo 3
4931 26	1x: BMW Model F20/F21, 2011–; 2x: BMW Model F22/F23, 2013–; 2x: BMW Model F45/F46, 2014–; 3x: BMW Model F30/F31/F34/, 2012; 4x: BMW Model F32/F33/F36, 2014–; BMW Mini F55/F56, 2013–
4931 27	For clamping to the shock absorber tube (Ø 47 – 60 mm) with short springs

Article No.	Article Description	QTY
4931 12	SPRING HOLDER NO.50 80-120MM	1
4931 13	SPRING HOLDER NO.10 80-145MM	1
4931 14	SPRING HOLDER NO.30 140-175MM	1
4931 15	SPRING HOLDER NO.20 145-195MM	1
4931 16	SPRING HOLDER LEFT.145-195MM	1
4931 18	SPRING HOLDER SET PEUGEOT	1
4931 20	SPRING HOLDER NO.60 F.CON.SPR.	1
4931 21	SPRING HOLDER NO.70 BMW E39/46	1
4931 22	SPRING HOLD.NO.80 DB C203/204	1
4931 23	SPRING HOLDER NO.90 DB E 211	1
4931 24	SPRING HOLD.NO.85 W204/205/207	1
4931 25	SPRING HOLDER RENAULT TWINGO 3	1
4931 26	SPRING HOLDER BMW MODEL F	1
4931 27	CLAMP.BRACKET F.SPRING STRUTS	1


Scope of delivery Art.-No. 4931 18

- 2x spring holder

Shock absorber mounting aid kit

- Mounting aid for shock absorbers with rebound buffer springs
- Rebound buffer spring explanation:
 - the piston rod of the shock absorber is pulled back by the rebound buffer spring when tensioning the spiral spring
 - with commercially available tools it is virtually impossible to tension the spiral spring so that the damper nut can be released without counter-pressure
 - even for a spiral spring tensioned on a block not able to screw the securing nut on the piston rod during assembly
 - practical handling- one-man operation
 - No more shaky experiments in which the upper spring coil has to be compressed manually with the help of a second person
 - Significant risk minimisation when replacing springs or shock absorbers
 - universally applicable

Application area:

- BMW, MB, Toyota, Nissan, Fiat, Citroen, Peugeot, Ford, Mazda etc.



Contents each 1 pcs:

- **Interim storage with telescopic tube receiving thread** and removable handle
- **Base unit telescopic tube with pull and turn handle incl. thrust bearing**, quick lock (11 positions), with plastic socket for safe use
- **Universal clamping piece** with plastic jaws incl. clamping screws
- **Screws for clamping piece**, long version
- **Allen key** with T-handle

Article No.	Article Description	QTY
4931 4	SHOCK ABSORBER MOUNT.AID KIT	1

Extractor Set Ø 5.0 - 36.0 mm

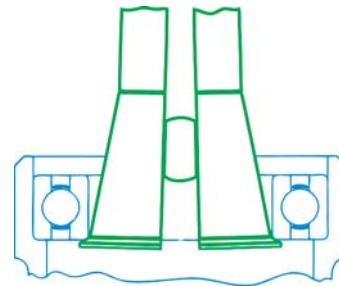
- In plastic case Art.-No. 4415 14 16 1 with VAROsoft tool deposit Art.-No. 9026 814
- For tightly closed ball bearing, rings, sleeves, and shaft seal
- Titanium nitride surface – very solid material
- Wear resistant
- Heat resistant



Article No.	Article Description	QTY
4930 5	EXTRACTOR SET 5-36MM	1

Contents:

- 1x Slide hammer
- 1x Extractor 5.0 - 8.5 mm
- 1x Extractor 8.0 - 15.0 mm
- 1x Extractor 15.0 - 25.0 mm
- 1x Extractor 25.0 - 36.0 mm



Universal Puller, 2-Arm, Mini

- For battery pole terminals and wiper arms for cars and trucks
- The conical nut clamps the pulling arms
- Height: 100 mm



Article No.	Article Description	QTY
4800 2 50	2-ARM PULLER UNIVERSAL MINI	1

Axle Lever

- For demounting of transverse links from the carrier joint-clamp boring etc.
- Length: 125 cm
- Weight: 5.9 kg



Article No.	Article Description	QTY
4910 432900	AXLE LEVER	1

Alternator Demounting Set

- This set can be used for almost all vehicle types due to modular construction

Article No.	Article Description	QTY
4920 18	ALTERNATOR DISMOUNT-SET 18-PA.	1

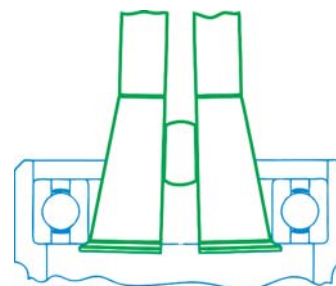
Contents:

- 1x Art. No. 4920 18 1 1/2" socket wrench TX50 113 mm LG
- 1x Art. No. 4920 18 2 1/2" socket wrench M10x113 LG
- 1x Art. No. 4920 18 3 3/8" socket wrench M10x80 Ø14x33 teeth
- 1x Art. No. 4920 18 4 1/2" bit socket wrench M10x140 LG
- 1x Art. No. 4920 18 5 special bit 15 mm hexagonal - 33 teeth
- 1x Art. No. 4920 18 6 special bit 22 mm hexagonal - 33 teeth
- 1x Art. No. 4920 18 7 special bit 22 mm hexagonal
- 1x Art. No. 4920 18 8 special bit 19 mm hexagonal - 28 mm hexagonal
- 1x Art. No. 4920 18 10 special bit 22 mm hexagonal- 28 mm hexagonal
- 1x Art. No. 4920 18 11 special bit Ø15 mm - 4 pointed tips
- 1x Art. No. 4920 18 13 special bit M10 XZN 12 mm hexagonal
- 1x Art. No. 4920 18 14 special bit TX40x75 mm 10 mm hexagonal
- 1x Art. No. 4920 18 15 special bit TX50x75 mm 10 mm hexagonal
- 1x Art. No. 4920 18 16 special bit XZN8x7 5mm 10 mm hexagonal
- 1x Art. No. 4920 18 17 special bit XZN10x75 mm 10 mm hexagonal
- 1x Art. No. 4920 18 18 special bit hexagonal 8-75 mm
- 1x Art. No. 4920 18 19 special bit hexagonal 10x75 mm
- 1x Art. No. 4361 12 10 1/2"x10mm Bit adapter standard



Extractor Set Ø 5.0 - 36.0 mm

- In plastic case Art.-No. 4415 14 16 1 with VAROsoft tool deposit Art.-No. 9026 814
- For tightly closed ball bearing, rings, sleeves, and shaft seal
- Titanium nitride surface – very solid material
- Wear resistant
- Heat resistant



Article No.	Article Description	QTY
4930 5	EXTRACTOR SET 5-36MM	1

Contents:

- 1x Slide hammer
- 1x Extractor 5.0 - 8.5 mm
- 1x Extractor 8.0 - 15.0 mm
- 1x Extractor 15.0 - 25.0 mm
- 1x Extractor 25.0 - 36.0 mm

Universal Puller, 2-Arm, Mini

- For battery pole terminals and wiper arms for cars and trucks
- The conical nut clamps the pulling arms
- Height: 100 mm



Article No.	Article Description	QTY
4800 2 50	2-ARM PULLER UNIVERSAL MINI	1

Universal Puller, 2-Arm

- Robust version with forged die
- Replaceable pulling arms can be adjusted and make an in-side and outside pulling possible

Article No.	Article Description	QTY
4800 2 80	2-ARM PULLERS 80X100MM	1
4800 2 120	2-ARM PULLERS 120X100MM	1
4800 2 160	2-ARM PULLERS 160X150MM	1
4800 2 200	2-ARM PULLERS 200X150MM	1
4800 2 250	2-ARM PULLERS 250X200MM	1
4800 2 350	2-ARM PULLERS 350X200MM	1
4800 2 520	2-ARM PULLERS 520X200MM	1

(Width x height mm)



Universal Puller, 3-Arm

- Wide hook ends with the size of 2 are provided with 8 mm slots so that discs or gear wheels can also be pulled with 8 mm screws

Article No.	Article Description	QTY
4800 3 90	3-ARM PULLERS 90X80MM	1
4800 3 120	3-ARM PULLERS 160X130MM	1

(Width x height mm)



Puller with Clamping Collar, 2-Arm

- This pullers are mainly suitable for the pulling of steering levers at cars and trucks
- Clamping collar tightly presses the hooks behind the part to be pulled and prevents slipping of the pullers at the same time

Article No.	Article Description	QTY
4801 2 70	2-ARM PULLERS 70X85MM	1
4801 2 90	2-ARM PULLERS 90X100MM	1
4801 2 150	2-ARM PULLERS 150X140MM	1

(Width x height mm)



Universal Wheel Hub Puller, 5-Armed

- For cars and trucks with a hole circle up to Ø 225 mm

Article No.	Article Description	QTY
4802 5 225	WHEEL HUB PULLER UP TO 225MM	1



Battery Terminal Clamp Puller

- Two-armed
- Ideal for pulling small parts such as battery terminals, plates, gears, ball bearings etc.



Article No.	Article Description	QTY
4800 2 65	2-ARM-PULLER 65X65MM	1

(Width x height mm)

Ball-jointed Puller

- For easy and protective pulling of ball pins on connecting and track rods



Article No.	Article Description	QTY
4806 23 45	BALL-JOINTED PULLER 23X45MM	1
4806 27 56	BALL-JOINTED PULLER 27X56MM	1

(Width x height mm)

Ball-jointed Puller Universal

- For pressing out of ball joints at suspensions for the above mentioned application areas
- Height: up to 65 mm



Article No.	Article Description	QTY
4805 1	BALL JOINT PULLERS 18-20MM	1

(Width mm)

Ball-jointed Puller, Universal

- For pressing out of the ball-and-socket joint at steering tie rods, stabilisers etc. of cars
- Height: 2 stages up to 50 mm



Article No.	Article Description	QTY
4805 10	BALL J.PULL.B.S.J.UP TO 20 MM	1

(Width up to mm)

Wiper Blade Pulling Set

- Universal puller set, suitable for approx. 450 wiper blades, 300 vehicles and 30 marques
- In VAROsoft tool deposit Art. No. 9026 712

Contents:

Article No.	Article Description	Quantity
4415 12 25 1	EMPTY CASE SIZE A+	1
4912 90 1	CLAW G1 F.WIP.BLADE PULLER SET	1
4912 90 2	CLAW G2 F.WIP.BLADE PULLER SET	1
4912 90 3	CLAW G3 F.WIP.BLADE PULLER SET	1
4912 90 4	CLAW G4 F.WIP.BLADE PULLER SET	1
4912 90 5	CLAW G5 F.WIP.BLADE PULLER SET	1
4912 90 6	CLAW G6 F.WIP.BLADE PULLER SET	1
4912 90 7	CLAW G7 F.WIP.BLADE PULLER SET	1
4912 90 8	CLAW G8 F.WIP.BLADE PULLER SET	1
4912 90 9	SPINDLE FOR WIP.BLADE PULL.SET	1
4912 90 10	HAMMER FOR WIP.BLADE PULL.SET	1
4912 90 12	PRESS PIN D2 F.WI.BLA.PULL.SET	1
4912 90 13	SPIN.EXT.D3 F.WIP.BLA.PULL.SET	1



Article No.	Article Description	QTY
4912 90	WIPER BLADE PULLER-SET 13-PART	1

Wiper Blade Extractor - Hammer

- With intake for claw G1 - G8

Article No.	Article Description	QTY
4912 90 10	HAMMER FOR WIP.BLADE PULL.SET	1



Wiper Blade Extractor - Spindle

- With intake for claw G1 - G8 as well as for adapters and press pins D1 - D3

Article No.	Article Description	QTY
4912 90 9	SPINDLE FOR WIP.BLADE PULL.SET	1



Wiper Blade Extractor - Claw

- G1 - G8 for many vehicle types according to the application list

Article No.	Article Description	QTY
4912 90 1	CLAW G1 F.WIP.BLADE PULLER SET	1
4912 90 2	CLAW G2 F.WIP.BLADE PULLER SET	1
4912 90 3	CLAW G3 F.WIP.BLADE PULLER SET	1
4912 90 4	CLAW G4 F.WIP.BLADE PULLER SET	1
4912 90 5	CLAW G5 F.WIP.BLADE PULLER SET	1
4912 90 6	CLAW G6 F.WIP.BLADE PULLER SET	1
4912 90 7	CLAW G7 F.WIP.BLADE PULLER SET	1
4912 90 8	CLAW G8 F.WIP.BLADE PULLER SET	1



Adapter D1 for Spindle

- To place the spindle 4912 90 9 onto the hub

Article No.	Article Description	QTY
4912 90 11	SPINDLE ADAPT.D1 F.WIP.BL.SET	1



Press Pin D2 for Spindle

- For wipers with water nozzle in the centre of the hub

Article No.	Article Description	QTY
4912 90 12	PRESS PIN D2 F.WI.BLA.PULL.SET	1



Extension Adapter D3 for Spindle

Article No.	Article Description	QTY
4912 90 13	SPIN.EXT.D3 F.WIP.BLA.PULL.SET	1



Vehicle make / Type	front		rear	
	Grippe	Spindle mount	Grippe	Spindle mount
Alfa Romeo				
147	G1	D1	-	-
156	G2	D1	-	-
159	G1	D1	-	-
166	G5	D1	-	-
GT	G3	D1	-	-
Audi				
A2	G1	D1	-	-
or	U1	-	-	-
A80 up to year 1996	G1	D1	-	-
A3	G1	D1	-	-
A3 up to year 2003	G1	D1	-	-
or	U1SP-50	-	-	-
A3 from year 2004	G1	D1	G8	D2
or	U1SP-50	-	-	-
A4 up to year 2001	G1	D1	G1	D1
or	U1SP-50	-	-	-
A4 from year 2001	G5	D1	-	-
A4 from year 2003	G7	X	-	-
X = use spindle WITHOUT mount				
A4 from year 2008	G3	D1	G8	D2
A5	G3	D1	-	-
A6 from year 1997	G1	D1	G1	D1
A6 from year 2004	U1	-	-	-
A6 from year 2005	U1	-	-	-
A8 from year 2001	U1	-	-	-
A8 from year 2002	U1SP-50	-	-	-
A8 from year 2003	G2	D1	-	-
First unhook the engine bonnet dampers and set the bonnet at a steep angle				
Q7	rechts links	G3 G2	D1 D1	G8 D2
First unhook the engine bonnet dampers and set the bonnet at a steep angle				
TT	or	G3 U1SP-50	D1 -	- -
TT from year 2007		G3	D1	-
alle Audi Heckwischer		-	-	G8 D2
BMW/Mini				
1 series right / left	or	G2 U1	D1 -	G8 D2
3 series		U1	-	-
3 series E 36	or	G3 U1	D1 -	- -
3 series compact E36		G1	D1	G3 D1
3-er E 46	right left	G2 G5	D1 D1	- -
3-er E 90		U1	D1	G3 D1
5-er E 39	right left	G5 -	D1 -	- -
5-er E 60	right left	G3 U1	D1 -	- -
7-er E 38	right left	G2 U1	D1 -	- -
7-er E 65	right left	G2 U1	D1 -	- -
X3	right left	G2 U1	D1 -	- -
X5		G1	D1	G2 D1
Z4		G1	D1	-
Mini		G7	X	-
Chevrolet/Daewoo				
Captiva		G2	D1	G8 D3
Kalos		U1SP-50	G8	D3
Lacetti		-	-	G8 D3
Nubira		U1SP-50	G8	D3
Chrysler				
Cruiser		G1	D1	G8 D2
Citroen				
Berlingo		G2	D1	G8 D2
C1		G8	D3	G8 D3
C2		G1	D1	G8 D3
C3		G1	D1	G8 D3
C4		G1	D1	G8 D3

Vehicle make / Type	front		rear	
	Grippe	Spindle mount	Grippe	Spindle mount
Citroen				
C4 Picasso	G5	-	U1	-
front alternative also	U1	-	-	-
C5	G4	D1	G6	D1
C6	G1	D1	-	-
C8	U1	-	G3	D1
C-Crosser	U1SP-50	G8	D3	
Evasion	G1	D1	-	-
Pluriel	G2	D1	-	-
Saxo	G1	D1	G6	D1
Xsara	G1	D1	G6	D1
Xsara Picasso	G2	D1	G6	D1
Daihatsu				
Cuore	-	-	G8	D3
Sirion	-	-	G8	D3
YRV Plus	-	-	G8	D3
Fiat				
500	G3	D1	G8	D3
Barchetta	G8	D3	-	-
Bravo	G3	D1	G8	D3
Doblo	G1	D1	G3	D1
Ducato	G1	D1	-	-
Idea	G1	D1	G3	D1
Multipla	G2	D1	G8	D3
Panda	G1	D1	G3	D1
Punto	G1	D1	G3	D1
Punto Grande	G3	D1	G3	D1
Seicento	G3	D1	G3	D1
Stilo	G1	D1	G3	D1
Ulysee	U1	-	G3	D1
Ford				
Fiesta from year 1995	G1	D1	G8	D3
Fiesta from year 2001	G2	D1	G8	D3
Fiesta from year 2006	G1	D1	G8	D3
Fiesta all	U1SP-50	G8	D3	
Focus	G2	D1	-	-
Focus Cabrio	G1	D1	-	-
Focus C-Max	G2	D1	-	-
Focus from year 2004	G1	D1	-	-
Focus from year 2006	G1	D1	G8	D3
Focus all	U1SP-50	-	-	-
Fusion	G1	D1	-	-
Galaxy up to year 2000	G2	D1	G3	D1
Galaxy from year 2000	G5	D1	G1	D1
Galaxy from year 2007	G2	D1	G8	D3
Ka	G3	D1	U1	-
Mondeo up to year 2001	G1	D1	-	-
Mondeo from year 2001	G1	D1	G6	D1
Mondeo from year 2007	G5	D1	G8	D3
Mondeo all	U1SP-50	G6	D1	
S-Max from year 2007	G2	D1	G8	D3
Streetka	G3	D1	-	-
Tourneo	G3	D1	G8	D2
Transit	G3	D1	G8	D2
Transit Connect	G3	D1	G8	D2
Honda				
Accord Bauj. 98/99	G1	D1	-	-
Civic from year 2002	G2	D1	-	-
CRV up to year 2000	U1SP-50	-	-	-
CRV up to year 2001	U1	-	-	-
HRV from year 2000	U1SP-50	-	-	-
Hyundai				
Accent	U1	-	G3	D1
Atos	U1SP-50	G3	D1	
Caupe	U1	-	G4	D3
Getz	U1SP-50	G3	D1	
i 30	G2	D1	G8	D3
Matrix	G2	D1	-	-
Santa Fe	U1	-	-	-
Santa Fe from year 2006	U1SP-50	G3	D1	
Souata	U1	-	-	-
Terracau	U1	-	-	-
Tucson	G2	D1	-	-

Vehicle make / Type	front		rear	
	Grippe	Spindle mount	Grippe	Spindle mount
Jaguar				
S-Type	G2	D1	-	-
X K	G1	D1	-	-
X-Type	G5	D1	-	-
X-Type-Estate	G1	D1	-	-
Jeep				
Commander Overland	U1	-	U1	-
Grand Cherokee	U1	-	U1	-
Kia				
Cerato	U1	-	-	-
Picanto	U1	-	-	-
Rio	U1	-	-	-
Sorento	U1	-	-	-
Sportage	G3	D1	G3	D1
Land Rover				
Discovery	G5	D1	G2	D1
Free Lander	G7	X	G8	D3
Range Rover	right left	G2 U1	D1 -	- -
Mazda				
2	U1	-	-	-
2 from year 2007	U1SP-50	G8	D3	
3	G3	D1	G8	D3
3 from year 2006	G1	D1	G3	D1
5 from year 2006	U1	-	G8	D3
6 from year 2008	U1	-	G3	D1
323 F	G5	D1	-	-
CX 7	U1SP-50	G3	D1	
MPV Exclusiv 6	U1SP-50	G8	D3	
MX 5	left	G1	D1	-
Premacy	U1SP-50	-	-	-
RX 8	U1SP-50	-	-	-
Tribute Adventure	G1	D1	G8	D3
Mercedes Benz				
A	G1	D1	G3	D1
A Typ 169	G1	D1	G3	D2
B Typ 245	G1	D1	G8	D2
C	G2	D1	G8	D2
C from year 2000	G2	D1	-	-
C Typ 203/204	G2	D1	G3	D1
CLK Typ 209	right left	G3 G2	D1 D1	- -
CL Typ 216		G1	D1	-
E from year 2002	right left	G5 G1	D1 D1	- -
E Typ 211	right left	G2 G1	D1 D1	- -
GL Typ 164.8	right left	G3 G1	D1 D1	- -
ML		G1	D1	-
ML Typ 164.1	right left	G3 G2	D1 D1	- -
R Typ 251	right left	G3 G2	D1 D1	- -
S Typ 221		G1	D1	-
SL Typ 230		G2	D1	-
SLK		G4	D1	-
SLK Typ 171	right left	G3 G2	D1 D1	- -
Vito-V		G4	D1	-
MG-Rover				
MGF	G1	D1	-	-
75	U1	-	-	-
Mitsubishi				
Carisma	G3	D1	-	-
Colt	-	-	G8	D3
Grandis	-	-	G8	D3
Pajero	-	-	G8	D3
Pajero Pinin	-	-	G1	D1
Space Star	-	-	G8	D3
Nissan				
Primera	U1	-	-	-

Continued on next page

Vehicle make / Type	front		rear	
	Grippe	Spindle mount	Grippe	Spindle mount
Opel				
Antara	G2	D1	G3	D1
Astra F	G3	D1	G3	D1
Astra G	G1	D1	G4	D1
Astra G Kombi	G1	D1	G3	D1
Astra GTC	G2	D1	G3	D1
Astra -H- from year 2004	G2	D1	G3	D1
for Limousine and Caravan: Engine bonnet damper unhook and set the bonnet at steep angle				
Astra Twin Top	G2	D1	-	-
Corsa B	G3	D1	-	-
Corsa C	G3	D1	G1	D1
Corsa from year 2007	G3	D1	G3	D1
G T	G1	D1	-	-
Meriva	-	-	G3	D1
Movano	G1	D1	-	-
Signum	G1	D1	G3	D1
Tigra	G1	D1	G3	D1
Tigra Twin Top	G1	D1	-	-
Vectra C	G1	D1	G3	D1
Vivaro	G1	D1	-	-
Zafira	G1	D1	G3	D1
Peugeot				
106	G1	D1	G6	D1
107	G3	D1	G3	D1
1007	G1	D1	G3	D1
206	G2	D1	G3	D1
207	G2	D1	G8	D3
207 CC	G2	D1	-	-
207 SW	G2	D1	G8	D3
306	G1	D1	-	-
306 Cabrio	G1	D1	-	-
307	G2	D1	G6	D1
307 SW	G2	D1	G3	D1
308	G2	D1	G8	D3
406	G2	D1	G6	D1
407	U1	-	-	-
407 SW	G7	D1	G8	D3
first remove rear tailgate opener				
4007	U1	-	G3	D1
607	G3	D1	-	-
806	G1	D1	-	-
807	U1	-	G3	D1
Partner	G1	D1	G8	D3
Porsche				
Boxster	U1	-	-	-
911	U1	-	G8	D2
Cayenne	U1SP-50		G8	D2
Renault				
Clio from year 1998	G1	D1	G1	D1
Clio Gran Tour year 2008	G3	D1	G3	D1
Espace from year 1996	G1/G2	D1	G1	D1
Kangoo	G1	D1	G1	D1
Laguna	G1	D1	-	-
Laguna from year 2007	G3	D1	G3	D1
Laguna Kombi	G1	D1	-	-
Megane from year 1999	G2	D1	-	-
Megane Coupe, Cabriolet	G2	D1	-	-
Megane Limousine	G2	D1	G1	D1
Modus from year 2008	G1	D1	-	-
Scenic	G2	D1	-	-
Twingo	G1	D1	-	-
Twingo from year 2007	G2	D1	G2	D1
Saab				
9 - 3 up to year 2003	G2	D1	-	-
9 - 5	G2	D1	-	-
Seat				
Alhambra	G1	D1	-	-
Altea	G1	D1	-	-
Altea XL from year 2006	G1	D1	G8	D2
Arosa	G1	D1	-	-
Cordoba	G1	D1	-	-
Ibiza	G1	D1	-	-

Vehicle make / Type	front		rear	
	Grippe	Spindle mount	Grippe	Spindle mount
Seat				
Leon	G1	D1	-	-
Leon from year 2005	U1	D1	G8	D2
Toledo	G1	D1	-	-
Skoda				
Fabia	G1	D1	G8	D2
Fabia from year 2004	G1	D1	G8	D2
Fabia from year 2007	G1	D1	G8	D2
Octavia	G1	D1	-	-
Roomster	G1	D1	G8	D2
Superb	G1	D1	-	-
Smart				
Smart	G3	D1	G8	D3
Subaru				
Forrester	U1SP-50		G3	D1
Impreza	U1SP-50		G3	D1
Justy	U1SP-50		G3	D1
Legacy	U1SP-50		G3	D1
Tribeca	U1SP-50		G3	D1
Suzuki				
Alto	-	-	G8	D3
Grand Vitara	-	-	G8	D3
Wagon R	-	-	G8	D3
Toyota				
Agyo	G3	D1	G8	D3
Avensis	-	-	G8	D3
Celica	-	-	G8	D3
Corolla	-	-	G8	D3
Land Cruiser	-	-	G8	D3
Rav 4	-	-	G8	D3
Yaris	-	-	G8	D3
all Toyota rear wipers	-	-	G8	D3
Volvo				
740	G3	D1	-	-
850	G1	D1	-	-
940	G3	D1	-	-
C 30	G5	D1	G2	D1
C 70	G1	D1	-	-
C 70 from year 2006	G5	D1	-	-
S 40	G3	D1	G3	D1
S 60	G3	D1	-	-
S 70	G1	D1	-	-
S 80	G3	D1	-	-
V 50	G5	D1	-	-
V 70 up to year 2000	G1	D1	G8	D2
V 70 from year 2001	G3	D1	G8	D2
V 70 from year 2008	G5	D1	-	-
XC 90	G1	D1	-	-
VW				
Beetle	G1	D1	-	-
Caddy from year 2005	U1	-	-	-
Crafter	G2	D1	-	-
Eos	G1	D1	-	-
Fox	G1	D1	G8	D2
Golf III	G1	D1	G1	D1
or U1	-	-	-	-
Golf IV	G1	D1	G1	D1
or U1	-	-	-	-
Golf V	G1	D1	G8	D2
or U1	-	-	-	-
Golf V Variant from year 07	G1	D1	G8	D2
Lupo	G1	D1	G1	D1
Passat up to year 2000	G3	D1	G1	D1
Passat from year 2001	G1	D1	G1	D1
Passat up to year 2004	U1	-	-	-
Passat up to year 2005	U1	-	-	-
Polo up to year 1999	G3	D1	G3	D1
Polo from year 1999	G1	D1	G1	D1
or U1SP-50	-	-	-	-
Polo from year 2006	G1	D1	G8	D2
Polo Cross	G1	D1	G8	D2
Sharan up to year 2000	G2	D1	G3	D1

Vehicle make / Type	front		rear	
	Grippe	Spindle mount	Grippe	Spindle mount
VW				
Sharan from year 2000	G5	D1	G1	D1
or U1SP-50	-	-	-	-
Sharan from year 2007	G1	D1	G8	D2
T5 from year 2003	G2	D1	G8	D2
or U1SP-50	-	-	-	-
Tiguan	G1	D1	G8	D2
Touareg	right U1SP-50	-	-	-
left G5	D1	-	-	-
Touran	G1	D1	G8	D2
or U1	-	-	-	-
All VW rear wipers from year 2004	-	-	G8	D2

Wiper Blade Pulling Set - Addition

- Addition set for Art. No. 4912 90 for further vehicles according to the application
- Consisting of 2 pairs of hooks (U1 and SP-50), spindle and press pin D1



Article No.	Article Description	QTY
4912 90 15	WIP.BL.PUL.SET ADD.SET U1/SP50	1

Vehicle make / type	front	
	Grippe	Spindle mount
Audi		
A2	U1	
A3 up to year 2003	U1SP-50	
A3 from year 2004	U1SP-50	
A4 up to year 2001	U1SP-50	
A4 up to year 2004	U1SP-50	
A4 from year 2005	U1SP-50	
A6 up to year 2004	U1	
A6 from year 2005	U1	
A8 up to year 2001	U1	
A8 from year 2002	U1SP-50	
TT	U1	
BMW		
1 series	U1	
3 series	U1	
5 series	right -	
	left U1	
5 series E 60	right -	
	left U1	
7 series E 38	right -	
	left U1	
7 series E 65	right -	
	left U1	
X3	right -	
	left U1	
Chevrolet/Daewoo		
Kalos	U1SP-50	
Nubira	U1SP-50	
Chrysler-Jeep		
Cruiser	U1	
Citroen		
C8	U1	
Fiat		
Ulysse	U1	
Ford		
Fiest	U1SP-50	
Focus	U1SP-50	
Ka rear	U1	
Mondeo	U1SP-50	
Honda		
CRV up to year 2000	U1SP-50	
CRV from year 2001	U1	
HRV up to year 2000	U1SP-50	

Vehicle make / type	front	
	Grippe	Spindle mount
Hyundai		
Caupe	U1	
Santa Fe	U1	
Souata	U1	
Terracau	U1	
Kia		
Cerato	U1	
Picanto	U1	
Rio	U1	
Sorento	U1	
Land Rover		
Range Rover	right -	
	left U1	
Mazda		
2	U1	
MPV EXclusiv 6	U1SP-50	
Premacy	U1SP-50	
Rx8	U1SP-50	
MG-Rover		
T5	U1	
Nissan		
Primera	U1	
Peugeot		
407	U1	
807	U1	
Porsche		
Boxster	U1	
911	U1	
Cayenne	U1SP-50	
VW		
Caddy	U1	
Golf III	U1	
Golf IV	U1	
Golf V	U1	
Passat bis Bauj. 2004	U1	
Passat bis Bauj. 2005	U1	
Polo	U1SP-50	
Sharan	U1SP-50	
Touareg	right U1SP-50	
Touran	U1	
T5	U1SP-50	

Comm.veh. / type	front	
	Grippe	Spindle mount
MAN		
	U1	
MB		
	U1	
Scania		
	U1	
etc.		
	U1	

Tension and Compression Sleeve Set

- 36-part in plastic case
- Universal tool kit for pull-out and pull-in of silentbearings, hydrobearings, sleeves, ball bearing, shaft seals, rubber bearings etc.
- Absolute universal application
- Ideal for different vehicles as well as trucks
- If required, the single sleeves can be reworked individually (e.g. gaps etc.)
- Can also be used with e.g. workshop press
- Length thrust sleeve: 55 mm

Article No.	Article Description	QTY
4930 100	TENSION+COMPRESSION SLEEVE SET	1

Content per 1x:

- Art.-No. 4930 100 1: Step plate No. 1
- Art.-No. 4930 100 2: Step plate No. 2
- Art.-No. 4930 100 3: Step plate No. 3
- Art.-No. 4930 100 4: Step plate No. 4
- Art.-No. 4930 100 10: Spindle M10
- Art.-No. 4930 100 10 1: Thrust nut M10 with bearing
- Art.-No. 4930 100 12: Spindle M12
- Art.-No. 4930 100 12 1: Thrust nut M12 with bearing
- Art.-No. 4930 100 14: Spindle M14
- Art.-No. 4930 100 14 1: Thrust nut M14 with bearing
- Art.-No. 4930 100 16: Spindle M16
- Art.-No. 4930 100 16 1: Thrust nut M16 with bearing
- Art.-No. 4930 100 34 44: Thrust sleeve l = 34 mm A = 44 mm
- Art.-No. 4930 100 36 46: Thrust sleeve l = 36 mm A = 46 mm
- Art.-No. 4930 100 38 48: Thrust sleeve l = 38 mm A = 48 mm
- Art.-No. 4930 100 40 50: Thrust sleeve l = 40 mm A = 50 mm
- Art.-No. 4930 100 42 52: Thrust sleeve l = 42 mm A = 60 mm
- Art.-No. 4930 100 44 54: Thrust sleeve l = 44 mm A = 54 mm
- Art.-No. 4930 100 46 56: Thrust sleeve l = 46 mm A = 56 mm
- Art.-No. 4930 100 48 58: Thrust sleeve l = 48 mm A = 58 mm
- Art.-No. 4930 100 50 60: Thrust sleeve l = 50 mm A = 60 mm
- Art.-No. 4930 100 52 62: Thrust sleeve l = 52 mm A = 62 mm
- Art.-No. 4930 100 54 64: Thrust sleeve l = 54 mm A = 64 mm
- Art.-No. 4930 100 56 66: Thrust sleeve l = 56 mm A = 66 mm
- Art.-No. 4930 100 58 68: Thrust sleeve l = 58 mm A = 68 mm
- Art.-No. 4930 100 60 70: Thrust sleeve l = 60 mm A = 70 mm
- Art.-No. 4930 100 62 72: Thrust sleeve l = 62 mm A = 72 mm
- Art.-No. 4930 100 64 74: Thrust sleeve l = 64 mm A = 74 mm
- Art.-No. 4930 100 66 76: Thrust sleeve l = 66 mm A = 76 mm
- Art.-No. 4930 100 68 78: Thrust sleeve l = 68 mm A = 78 mm
- Art.-No. 4930 100 70 80: Thrust sleeve l = 70 mm A = 80 mm
- Art.-No. 4930 100 72 82: Thrust sleeve l = 72 mm A = 82 mm



Accessories for puller and pressure sleeve set

- Optional accessories for Art. No. 4930 100

Article No.	Article Description	QTY
4910 609400 1	M609400/UG 1 SHORT SPINDLE	1
4910 609460	M609460 C-BRACK.PRESS.TOOL T.2	1



4910 609400 1

4910 609460

Planishing Hammer

- Heat-treated steel according to DIN 17200 W. No. 1.0503
- Blue coated
- With ash handle

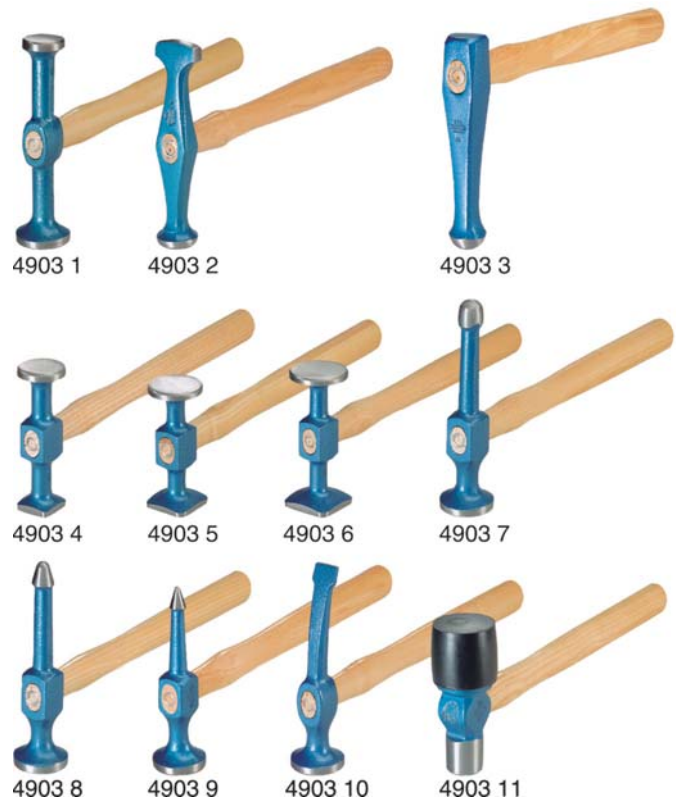
Art. No. 4903 4, 4903 5, 4903 6:

- finishing hammer = round face chequered milled

Technical Data

Art. No.	Handle-L mm	Head-L mm	mm	Ø mm	Weight g
4903 1	300	155	Ø 40	31	420
4903 2	325	160	-	31	500
4903 3	330	160	-	28	650
4903 4	300	105	25	32	300
4903 5	300	100	35	40	370
4903 6	320	115	40	46	460
4903 7	300	160	-	40	460
4903 8	300	160	-	40	450
4903 9	300	137	-	37	350
4903 10	300	160	-	40	450
4903 11	360	138	Ø 33	55	1000

Article No.	Article Description	QTY
4903 1	PLANISHING HAMMER 40X31X300	1
4903 2	BUMPING HAMMER 31X325	1
4903 3	FENDER BUMPING HAMMER 28X330	1
4903 4	FINISHING HAMMER 25X32X300	1
4903 5	FINISHING HAMMER 35X40X300	1
4903 6	FINISHING HAMMER 40X46X320	1
4903 7	POWER HAMMER 40X300	1
4903 8	POWER HAMMER 40X300	1
4903 9	PICKING HAMMER 37X300	1
4903 10	PEIN HAMMER 40X300	1
4903 11	STEEL RUBBER HAMMER 33X55GX360	1



Planishing Tools

Art. No. 4905 1, 4905 2 bending iron

- Heat-treated steel according to DIN 17200 W-No. 1.0501 + W-No. 1.0503

Art. No. 4905 10, 4905 11 spoonful iron

- Heat-treated steel according to DIN 17200 W-No. 1.0503

Art. No. 4905 20, 4905 21, 4905 22 lever iron

- Chrome-vanadium 31CrV3 W-No. 1.2208

Technical Data

Art. No.	L mm	Weight
4905 1	430	850
4905 2	400	650
4905 10	275	550
4905 11	390	910
4905 20	400	500
4905 21	450	1900
4905 22	500	2200

Article No.	Article Description	QTY
4905 1	BENDING IRON 430MM	1
4905 2	BENDING IRON 400MM	1
4905 10	SPOONFUL IRON 275MM	1
4905 11	SPOONFUL IRON 390MM	1
4905 20	LEVER IRON 400MM	1
4905 21	LEVER IRON 450MM	1
4905 22	LEVER IRON 500MM	1



Planishing-Anvil

Technical Data

Art. No.	Dimension L x W x H mm	Weight g
4904 1	72 x 55 / 63	1.270
4904 2	120 x 58 / 23	750
4904 5	130 x 55 / 36	950
4904 6	104 x 66 / 25	1.040
4904 7	Ø 54,5 x 60	685
4904 8	100 x 40 / 80 x 70 / 62	1.450
4904 10	80 x 60 / 33	1.060
4904 12	125 x 55 / 25	1.050
4904 13	70 x 54 / 68	1.270
4904 14	110 x 51 / 55	1.650
4904 16	105 x 68 / 20	920

Article No.	Article Description	QTY
4904 1	PLANISHING-ANVIL UNIVERS.FORM	1
4904 2	PLANISHING-ANVIL TOES FORM	1
4904 5	PLANISHING-ANVIL POINT FORM	1
4904 6	PLANISHING-ANVIL SOLE FORM	1
4904 7	PLANISHING-ANVIL DIABOLO FORM	1
4904 8	PLANISHING-ANVIL GENERAL FORM	1
4904 10	PLANISHING-ANVIL HEEL FORM	1
4904 12	PLANISH.ANVIL TOES F.CHEQUERED	1
4904 13	PLANISH.ANVIL SPECIAL FORM	1
4904 14	PLANISH.ANVIL DAIMLER FORM	1
4904 16	PLANISH.ANVIL FLAT WEDGE SHAPE	1



Box File

- For adjustment and pulling in of sheet
- Different cuts on all sides
- Size 160 x 25 mm
- Weight 750 g

Article No.	Article Description	QTY
4904 15	BOX FILE 160X25	1



Planishing Tool Kit

- 12-piece

Article No.	Article Description	QTY
4909 3	PLANISHING TOOL-WORKSHOP-ASS.	1

Contents:

- 1x Plastic soft face hammer, length 280, Ø 32 mm
- 1x Art. No. 4903 4, Art. No. 4903 5 Finishing hammer
- 1x Art. No. 4903 9 Picking hammer
- 1x Art. No. 4903 10 Pein hammer
- 1x Art. No. 4905 11 Spoonful iron
- 1x Art. No. 4905 21, Art. No. 4905 22 Lever iron
- 1x Art. No. 4904 5 Planishing anvil point form
- 1x Art. No. 4904 6 Planishing anvil sole form
- 1x Art. No. 4904 8 Planishing anvil general form
- 1x Art. No. 4904 12 Planishing anvil toes form chequered



Bodywork File

- File holder - concave and convex adjustable
- File blades - double-sided and radial shaped, flexible

4748 350 1:

- Cutting version rough

4748 350 2:

- Cutting version medium

Article No.	Article Description	QTY
4748 350	FILE HOLDER 350MM	1
4748 350 1	SQUARE FILE 350MM CUT 1	1
4748 350 2	SQUARE FILE 350MM CUT 2	1

(L mm)



Hydraulic-Straightening Set 10 t

- 17-piece
- The straightening set can be used for many body works due to its high pressure power of 10 t
- The extensive accessories make a big application area for pressing, lifting and spreading possible
- The connectors of the single parts provide a safe and quick application

Article No.	Article Description	QTY
4909 10	HYDRAULIC-STRAIGHTEN.SET 17(P)	1

Included in delivery:

- 1x Art. No. 4909 10 1 Plastic case
- 1x Art. No. 4909 10 2 Extension pipe 525 mm
- 1x Art. No. 4909 10 3 Extension pipe 400 mm
- 1x Art. No. 4909 10 4 Extension pipe 300 mm
- 1x Art. No. 4909 10 5 Extension pipe 170 mm
- 1x Art. No. 4909 10 6 Attachment cylinder 60 mm
- 1x Art. No. 4909 10 7 Extension device 0.5 t
- 1x Art. No. 4909 10 8 Attachment rubber ball 80 mm
- 1x Art. No. 4909 10 9 Attachment foot plate 150 x 93 mm
- 1x Art. No. 4909 10 10 Tension shoe with inside thread
- 1x Art. No. 4909 10 11 Attachment tension shoe
- 1x Art. No. 4909 10 12 Attachment V-form
- 1x Art. No. 4909 10 13 Attachment prism-form
- 1x Art. No. 4909 10 14 Plug adapter 100 mm
- 1x Art. No. 4909 10 15 Hand pump for hydraulic cylinder
- 1x Art. No. 4909 10 16 Hydraulic pressure cylinder
- 1x Art. No. 4909 10 17 Hydraulic hose 1.5 m



Individual Parts Hydraulic-Straightening Set

Article No.	Article Description	QTY
4909 10 1	PLASTIC CASE 780X430X190MM	1
4909 10 2	EXTENSION PIPE 525MM	1
4909 10 3	EXTENSION PIPE 400MM	1
4909 10 4	EXTENSION PIPE 300MM	1
4909 10 5	EXTENSION PIPE 170MM	1
4909 10 6	ATTACHMENT-CYLINDER 60MM	1
4909 10 7	SPREADING DEVICE 0.5T	1
4909 10 8	ATTACHMENT RUBBER BALL 80MM	1
4909 10 9	ATTACHMENT FOOT PLATE 150X93MM	1
4909 10 10 1	SPANNSCHUH MIT INNENGEWINDE"E"	1
4909 10 11	ATTACHMENT TENSIONING SHOE	1
4909 10 12	ATTACHMENT V-FORM	1
4909 10 14	PLUG ADAPTER 100MM	1
4909 10 15	HAND PUMP F.HYDRAULIC CYLINDER	1
4909 10 16	HYDRAULIC-PRESSURE CYLINDER	1
4909 10 17	HYDRAULIC-HOSE 1.5M	1
4909 10 18	CLUTCH F. CYL. AND SPREADER	1
4909 10 19	CLUTCH HYDRAULIC HOSE	1



Stud Welding-System ROSPOT

- Pulling out of dented sheets especially at areas difficult of access and double-sheets
- Welding of T-stud for trim mouldings
- Shrinking of sheets
- Providing for small external bulges
- Welding of threaded studs M4, wavy wire and U-disc

Article No.	Article Description	QTY
4908 1	ROSPOT-REPAIR-SYSTEM COMPLETE	1

Included in set:

- 1x Art. No. 4908 10 1x Rospot-stud welding device
- 500x Art. No. 4908 20 Welding stud copper-plated 2.0 mm
- 100x Art. No. 4908 26 Welding stud copper-plated 2.6 mm
- 1x Art. No. 4908 29 Welding stud-deviation device
- 100x Art. No. 4908 30 Trim moulding-welding studs
- 1x Art. No. 4908 100 Welding stud-electrode
- 1x Art. No. 4908 101 Trim moulding-welding stud-electrode
- 1x Art. No. 4908 102 Shrinking-electrode
- 1x Art. No. 4908 103 Stud-M4-electrode
- 1x Art. No. 4908 104 Welding disc-electrode
- 100x Art. No. 4908 105 Welding screw M4x16
- 100x Art. No. 4908 106 U-disc copper-plated
- 1x Art. No. 4908 107 Metal hook for disc
- 1x Art. No. 4908 108 Main electrode



Stud Welding-System ROSPOT Accessories

- For ROSPOT from year of construction 2003
- Art. No. 4908 104 and 4908 108 also to weld-on wavy wire



Article No.	Article Description	QTY
4908 10	ROSPOT-WELDING STUD DEVICE	1
4908 20	WELD.STUD COPPER-PLATED 2.0MM	250
4908 26	WELD.STUD COPPER-PLATED 2.6MM	500
4908 29	WELDING STUD-DEVIATION DEVICE	1
4908 30	TRIM MOULDING-WELDING STUD	100
4908 50	PK(25)WAVY WIRE 2X280MM	1
4908 100	WELDING STUD-ELECTRODE	1
4908 101	TRIM MOULD.WELD.STUD.ELECTRODE	1
4908 102	SHRINKING-ELECTRODE	1
4908 103	STUD-M4-ELECTRODE	1
4908 104	WELDING DISC-ELECTRODE	1
4908 105	WELDING SCREW M4X16	100
4908 106	U-DISC COPPER-PLATED 8X16	100
4908 107	METAL HOOK FOR DISC	1
4908 108	MAIN ELECTRODE	1
4908 109	ELECTRODE FOR WAVY WIRE	1

Tricorn Perforated Disk, copper-plated

- For stud welding machines
- Not suitable for ROSPOT (Art.-No. 4908 1)
- Drill: 10.3 mm

Article No.	Article Description	QTY
4908 299	PK(25)TRICORN PERF.DISK	1



Power-Lift-Pulling Lever

- The Power-Lift-Pulling Lever is a tool which repairs small bulges on the metal surface quickly and economically (connected with the wavy wire or copper-plated U-disc)
- The 3-fold towing hook is provided with slotted holes and therefore ideally suitable for any deformation at body works. Due to the slotted holes the finger hooks position themselves automatically so that the lever firstly attaches at the deeper and then at the other spot
- Due to the slotted hole in the pulling lever the metal hooks automatically centres themselves to achieve a vertical towing
- Supporting foot with rubber holder to prevent paint damages
- Weight: 2.3 kg

Article No.	Article Description	QTY
4908 175	POWER LIFT PULLING LEVER	1

Included in delivery:

- 3-fold towing hook
- Power-Lift-pulling lever



Power-Lift-Pulling Lever Accessories

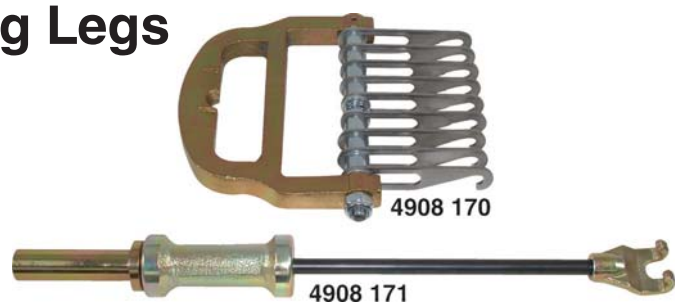


Article No.	Article Description	QTY
4908 50	PK(25)WAVY WIRE 2X280MM	1
4908 50	PK(25)WAVY WIRE 2X280MM	1
4908 176	PULL.CLAW 3-ARM FOR POWER LIFT	1
4908 177	ANGLE SUPPORT FOR POWER LIFT	1
4908 178	PULL.CLAW 5-ARM FOR POWER LIFT	1
4908 179	PULL.CLAW 7-ARM FOR POWER LIFT	1

Slide Hammer with 9 Pulling Legs

- For planishing with wavy wire
- Thread with slide hammer: M16

Article No.	Article Description	QTY
4908 160	SLID.HAMMER WITH PULLING CLAW	1
4908 170	PULLING CLAW W. 9 PULLING HOOK	1
4908 171	SLIDING HAMMER W. HOOK 3,8KG	1



Slide Hammer 5 kg



Technical Data

Connecting thread: M16
Total weight: 800 mm
Weight: approx. 5 kg

Article No.	Article Description	QTY
4908 201	SLIDE HAMMER W.ARTIC.PIECE 5KG	1

Slide Hammer 9 kg

- As an attachment for different pulling devices or removal disks to knock out hubs of wheels, full-floating axles, etc.
- Unlike other slide hammers which are available on the market, the handle is not screwed on this device but cast on; the integrated hand protection is extra large in order to avoid dolorous squeezing when working
- Using this slide hammer it is possible to achieve forces of up to about 8 to 9 tons, therefore, please make sure that your pulling device is of sufficient stability



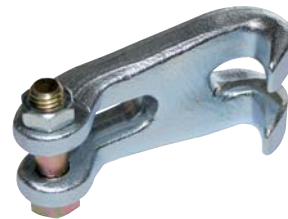
Technical Data

Connecting thread: M16
Total length: 880 mm
Weight: approx. 9 kg

Article No.	Article Description	QTY
4908 202	SLIDE HAMMER W.ARTIC.PIECE 9KG	1

Practi-Hook

- Forged
- Appropriate for slide hammer Art. No. 4908 201 and Art. No. 4908 202



Article No.	Article Description	QTY
4908 203	PRACTI-HOOK	1

Arched Hook

- To disassemble the transverse control arm from the supporting joint clamping bore
- Height: 30 mm, width: 40 mm
- Appropriate for slide hammer Art. No. 4908 201 and Art. No. 4908 202



Article No.	Article Description	QTY
4908 204	ARCHED HOOK EXTRA BIG	1

Pulling Device

- Pulling out hubs of wheels, full-floating axles, brake drums, etc.
- Appropriate for slide hammer Art. No. 4908 201 and Art. No. 4908 202
- Bolt circle:
 - Interior: 97 mm
 - Exterior: 138 mm
- For wheel mounting M12x1.5



Article No.	Article Description	QTY
4908 205	PULLING DEVICE WITH ADAPTER	1

Door Gap Gripper

- Forged
- With 2 differently shaped end forms and centred Practi-Hook holder
- Flat side for pulling out in gaps and behind edges
- The opposite side with round gap for attaching studs, behind edges etc.
- Application with slide hammer or slight chain hoist
- Weight: 320 g
- Length: 130 mm



Article No.	Article Description	QTY
4910 125005	DOOR GAP GRIPPER	1

Release Lever for Tailgate Lining

- For demounting and mounting of difficultly accessible retaining spring of the interior lining
 - Length: 500 mm
- Application:
- Golf 4, Audi A3, A6, A4 Avant as well as vehicles with identical construction



Article No.	Article Description	QTY
4912 11	TAILGATE LINING RELEASE LEVER	1

Door and Tailgate Holder Set

- For locking doors of vehicles and tailgates during setting, grinding and paint works
- Fixation via door lock striker and locking mechanism



Technical Data

Length size 1 with door stop 1	260-400 mm
Length size 2 with door stop 2	480-800 mm
Length size 2 with door stop 3	800-1140 mm
Connecting thread of locking hook	M8

Article No.	Article Description	QTY
4912 70	DOOR AND TAILGATE HOLDER SET	1

Security Catch Rope

- For protecting the pulling clamp and pulling chain during the straightening process
- Length: 2 m
- Rope-Ø: 4.5 mm



Article No.	Article Description	QTY
4909 35	SECURITY CATCH ROPE	1

Automatic Pulling Clamp

- Self-blocking pulling clamp with quick fixation due to threaded screw at the pulling ring
- With replaceable jaws
- Max. tensile strength: 6 t

Article No.	Article Description	QTY
4909 20	AUTOMATIC PULLING CLAMP 60MM	1



Pulling Clamp 90° Angled

- With replaceable jaws
- Jaw width 100 mm
- Max. tensile strength: 0.4 t

Article No.	Article Description	QTY
4909 21	PULLING CLAMP 90° ANGLED	1



Pulling Clamp, Self-Locking

- With replaceable jaws
- Narrow jaw width of 55 mm
- Clamping strength of the jaws rises with increasing pulling pressure
- Max. tensile strength: 6 t

Article No.	Article Description	QTY
4909 22	PULLING CLAMP SELF-LOCKING	1



Swivel-Mounted Clamp

- With replaceable jaws
- Max. tensile strength: 6 t

Article No.	Article Description	QTY
4909 23	SWIVEL-MOUNTED CLAMP	1



Pulling Clamp 100 mm

- Max. tensile strength: 6 t

Article No.	Article Description	QTY
4909 25	PULLING CLAMP 100MM	1



Pulling Clamp 45 mm

- Max. tensile strength: 4 t

Article No.	Article Description	QTY
4909 26	PULLING CLAMP 45MM	1



Universal-Double-Door Clamp

- Replaceable jaws made of hardened special steel
- Prevents the deformation of the door opening during pulling and pressure works
- Universally usable due to articulation clamps
- Very flat form makes the locking of the door at the mounted door clamps possible

Article No.	Article Description	QTY
4909 36	DOUBLE-DOOR CLAMP	1



Universal Straightening Bar for Car Doors

- For straightening of car and transporter doors (adjustable height) as well as for boot lid at hatchback vehicles (adjustment of splitting dimension)
- High-quality, chrome-plated and double-walled version
- Including 3 different special studs inside the handle

Article No.	Article Description	QTY
4912 37	UNI.STRAIGHT.BAR F.CAR DOORS	1



Door-Hinge Straightening Set

- For straightening of hinges and hinge tapes
- Ideal door adjustment after the straightening/pulling process
- Usable when door is mounted
- Suitable for: Audi, BMW, Citroen, Ford, Opel, VW
- Grip: zinc-plated steel
- With changing head intake: tempered steel

Technical Data				
Auto brand:	Changing head, width of groove in mm			
	9	9.4	11.5	12.5
Audi				
BMW	x	x		
Citroen				x
Ford		x	x	x
Mercedes	x			
Opel	x	x		
VW				x

Article No.	Article Description	QTY
4912 50	DOOR HINGE-STRAIGHTENING SET	1

Included in delivery:

- 4 changing heads (steel 38NCD4, forged, milled and tempered)



Door Stud-Impact-Pulling Tools

- For pulling out the hinge-spring type straight pin
- Art. No. 4912 1 Door stud-impact-pulling device**
- 16 mm-square steel zinc-plated (without mandrel)
- Length: 360 mm

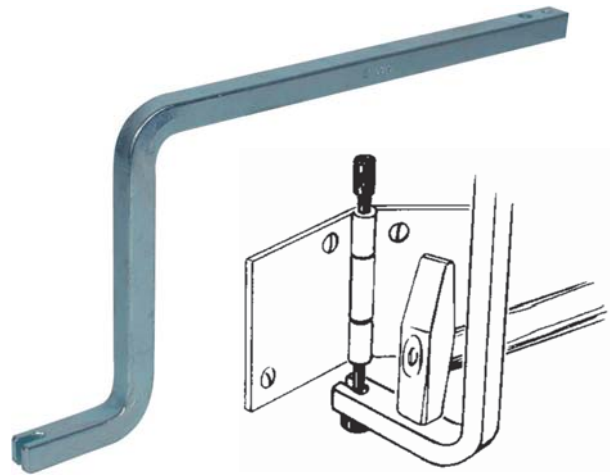
Art. No. 4912 2 Door stud-pulling mandrel

- For Ford, Citroen, Peugeot etc.
- Ø 4 mm
- Length: 100 mm

Art. No. 4912 3 Door stud-pulling mandrel

- For Opel, Peugeot etc.
- Ø 5 mm
- Length: 100 mm

Article No.	Article Description	QTY
4912 1	DOOR STUD-IMPACT-PULL.DEVICE	1
4912 2	DOOR STUD-PULL.MANDREL 4X100MM	1 z
4912 3	DOOR STUD-PULL.MANDREL 5X100MM	1



Screwdriver XZN-4

- Suitable for door handle-mounting at Golf 4 and Passat from year of construction 1996

Article No.	Article Description	QTY
4912 40	SCREWDRIVER XZN 4	1



Door Handle -Extraction Tool

- For dismantling door handles of e.g. VW Golf VI, Tiguan, Passat, Fox etc.

Article No.	Article Description	QTY
4910 592510	DOOR HANDLE EXTRACTION TOOL	1



Interior Covering-Release Lever

- For the release of plastic-clamps at door and other interior coverings

Art.-No. 4912 12:

- Blade Length: 115 mm
- Total Length: 215 mm
- Blade Opening: 6 mm

Art.-No. 4912 16:

- Blade Length: 152 mm
- Total Length: 280 mm
- Blade Opening: 7.5 – 11 mm

Article No.	Article Description	QTY
4912 12	DOOR CLIP REMOVER	1
4912 16	INTERIOR COVER.RELEASE LEVER G	1



Clips Rivet Removal Pliers

- For opening reusable two-piece plastic rivets, e.g. on doors and interior trim
- With 90° rotating head
- Four adjustable positions; adjusted via a hexagon nut

Article No.	Article Description	QTY
4912 13	CLIPS RIVET REMOVAL PLIERS	1



Door Mounting-Suction Holder-Set

- For holding tight of side windows when working at or inside doors

Article No.	Article Description	QTY
4912 20	PAIR(2)DOOR MOUNT.SUC.HOLD.SET	1

Contents:

- 2 holders with 2 suction plates Ø 60 mm



Door Hinge-Angle Spanner

- Universally applicable as both ends are curved and offset
- Made of special steel, matt nickel-plated
- Total length: 300 mm
- 5/16"-hexagon-drive for special bits with round-neck grooves

Article No.	Article Description	QTY
4912 30	DOOR HINGE-ANGLE SPANNER 6-PCS	1

Contents:

- One of each special bit for: TX 30/TX 40/TX 45/XZN-8 and XZN-10



Door Hinge-Angle Spanner Bits

Article No.	Article Description	QTY
4912 31	5/16"BIT TX30 SHORT VERS.21MM	1
4912 32	5/16"BIT TX40 SHORT VERS.21MM	1
4912 33	5/16"BIT TX45 SHORT VERS.21MM	1
4912 34	5/16"BIT XZN 8 SHORT VERS.21MM	1
4912 35	5/16"BIT XZN10 SHORT VERS.21MM	1
4912 36	5/16"BIT TX 50 SHORT VERS.21MM	1



Window panel removal tool

- For safe removal of window shaft cover panels from car doors
- Largely prevents bending and other damage to often expensive panels

Article No.	Article Description	QTY
4910 582000	5820000 WINDW.PANEL REM.TOOL	1



Assembly wedge set, 7-piece

- Universal assembly wedge set
- The assembly wedges allow the quick and simple removal of: door panels, sealing plugs, interior mirrors, trim and window frames and adhesive balance weights without damaging painted, plastic or metal parts

Contents:

Article No.	Article Description	Quantity
4906 5	PLASTIC DEMOUNT.LEVER 21X270MM	1
4906 7	COMBI-UNI-DISMOU.WEDGE25X194MM	1
4906 9	DEMOUNTING LEVER STEEL160X15MM	1
4906 16	MOUNTING WEDGE 5* 200X25MM	1
4906 17	MOUNTING WEDGE 5* 230X45MM	1
4906 19	MINI DISMANTLING WEDGE 16X120	1
4906 21	ASSEMBLY WEDGE POINT 20X138	1
9836 4906 7	BAG F.ASSEMBLY WEDGE SET 7PCE	1

Article No..	Article Description	QTY
4906P 7	ASSEMBLY WEDGE SET 7-PCE	1



Mounting Wedge Set 2-Piece **FÖRCH** ★★★★★

- Universal assembly wedges
- Material: Polyamide 6G (cast polyamide with very high degree of crystallinity)
- Excellent physical properties:
 - High tenacity with high hardness
 - High impact, abrasion and wear resistance
 - High dimensional stability - thus the wedge tips are burr-free, very sharp and thin

Article No.	Article Description	QTY
4906 90	MOUNTING WEDGE SET 5* 2-PIECE	1
4906 16	MOUNTING WEDGE 5* 200X25MM	1
4906 17	MOUNTING WEDGE 5* 230X45MM	1

Contents of Art. No. 4906 90:

- 1x Art. No. 4906 16 Mounting wedge FÖRCH 5* 200 x 25 mm
- 1x Art. No. 4906 17 Mounting wedge FÖRCH 5* 230 x 45 mm



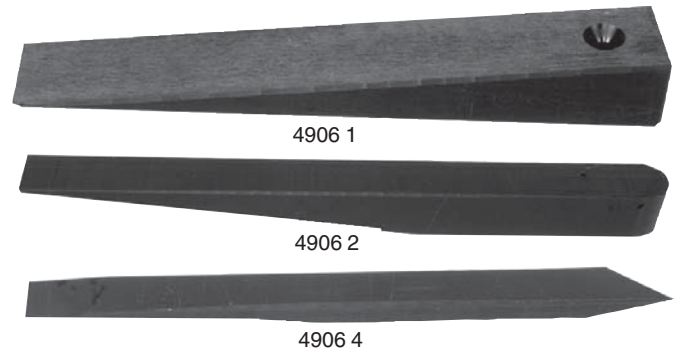
Mounting Wedge, 3-Piece

- Made of PPP, prevents paint damages
- Re-grindable

Article No.	Article Description	QTY
4906 3	MOUNTING WEDGE-SET 3-PIECE	1
4906 1	MOUNTING-UNI WEDGE 200X25MM	1
4906 2	MOUNTING-FELT WEDGE	1
4906 4	MOUNTING-POINTING WEDGE	1

Contents of Art. No. 4906 3:

- 1x Art. No. 4906 1: Mounting Uni-Wedge
- 1x Art. No. 4906 2: Mounting Felt-Wedge
- 1x Art. No. 4906 4: Mounting Pointed-Wedge



Mounting Wedge Set, 4-Piece

- The wedges enable an easy disassembly without any risk of damage of sensible parts
- Flexible, solid and can be used for all material
- For the disassembly of rear-view mirrors, balance weights of alloy rims, interior parts etc.

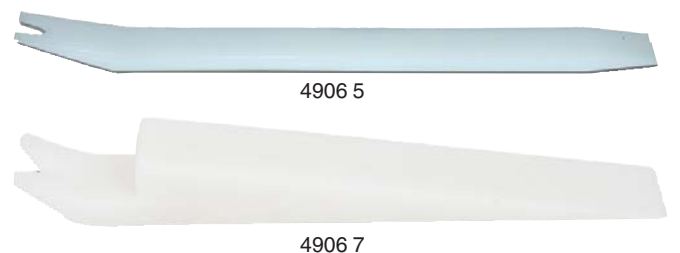
Article No.	Article Description	QTY
4906 8	MOUNTING WEDGE SET 4-PIECE	1



Demounting Lever, Plastic

- A combination of trim moulding-wedge and door covering-releasing tool
- Quick and easy releasing of: door coverings, plug, inside mirrors, trim and window mouldings, adhesive-balance weights without the damage of lacquer, plastic and metal parts

Article No.	Article Description	QTY
4906 5	PLASTIC DEMOUNT.LEVER 21X270MM	1
4906 7	COMBI-UNI-DISMOU.WEDGE25X194MM	1



Assembly wedge, point

- the assembly key, pointed allows to release the sensitive parts, such as paint or chrome-plated plastic, without protecting agent or the risk of causing damage
- for releasing rear-view mirror, interior fittings such as switches and trims etc.

Article No.	Article Description	QTY
4906 21	ASSEMBLY WEDGE POINT 20X138	1



Mini dismantling wedge

- Material: POM
- the mini dismantling key allows to release the sensitive parts, such as paint or chrome-plated plastic, without the risk of being damaged
- is flexible, durable and can be used for all materials
- for releasing rear-view mirrors, balance weights of alloy rims, interior fittings such as switches and trims etc.

Article No.	Article Description	QTY
4906 19	MINI DISMANTLING WEDGE 16X120	1



Demounting Lever, Steel

- For demounting door linings, interior lights etc.
- Lever is specifically coated to avoid scratches

Article No.	Article Description	QTY
4906 9	DEMOUNTING LEVER STEEL160X15MM	1



Tweezers

- Dipped insulation in accordance with DIN EN 60900
- Chrome vanadium
- With slip guard

Technical Data

D	L
mm	mm
11.5	145.0
15.5	200.0
11.0	130.0
13.5	130.0
15.0	145.0
15.5	200.0

Article No.	Article Description	QTY
4997 2 145	TWEEZERS ARCHED 145MM	1
4997 2 200	TWEEZERS ARCHED 200MM	1
4997 2 1 130	TWEEZERS STRAIGHT FL 130MM	1
4997 2 2 130	TWEEZERS STRAIGHT P. 130MM	1
4997 2 1 145	TWEEZERS STRAIGHT FL 145MM	1
4997 2 1 200	TWEEZERS STRAIGHT FL 200MM	1



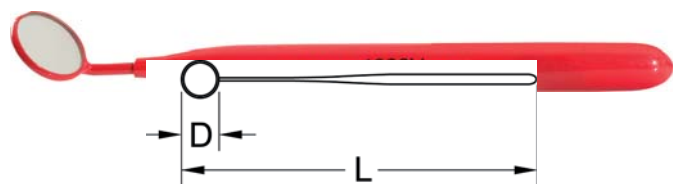
Inspection mirror

- Dipped insulation in accordance with DIN EN 60900
- Chrome vanadium
- With slip guard

Technical Data

D	L
mm	mm
22.0	175.0

Article No.	Article Description	QTY
4997 3 175	INSPECTION MIRROR 175MM	1



Plastic Wedge

- For working with live voltage at AC 1,000 V and 1,500 V
- With sharp edges
- With large impact head
- Made from impact-resistant plastic

Article No.	Article Description	QTY
4997 9 27 170	PLASTIC WEDGE 27X170 MM	1



Technical Data

W	L
mm	mm
28.0	170.0



Plastic Expanding Wedge

Article No.	Article Description	QTY
4997 9 20 170	PLASTIC EXP.WEDGE 20X170MM	

Technical Data

Plastic Expanding Wedge, Oval

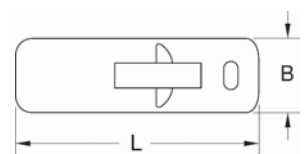
- For working with live voltage at AC 1,000 V and 1,500 V
 - Without groove
 - Made from impact-resistant plastic
- Art.-No. 4997 9 45 225:**
- Oval in shape, no edges
 - Long version with large impact head
- Art.-No. 4997 9 25 150:**
- Oval in shape, no edges
 - Short version



Article No.	Article Description	QTY
4997 9 45 225	PL.EXP.WEDGE OVAL 45X225MM	1
4997 9 25 150	PL.EXP.WEDGE OVAL 25X150MM	1

Technical Data

W	L
mm	mm
53.0	225.0
30.0	150.0



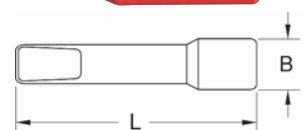
Plastic Exp. Wedge, Impact Head

- For working with live voltage at AC 1,000 V and 1,500 V
- For mounting cable branching terminals
- No slipping of material when cutting cable cores
- Made from impact-resistant plastic



Technical Data

W	L
mm	mm
38.0	197.0



Joggling Tool

- For sheet metals up to 1.0 mm capacity
- Set-off depth: 12 mm
- For transitions at cut and cut-out repairs
- Length: 295 mm

Article No.	Article Description	QTY
4902 15	JOGGL.TOOL F.SHEET MET. B 15MM	1
4902 30	JOGGL.TOOL F.SHEET MET. B 30MM	1



Spot Weld Tool

- For sheet metals up to 1.0 mm capacity
- For puddle welds (MAG-welding system)
- Length: 295 mm

Article No.	Article Description	QTY
4902 55	SPOT WELD TOOL F.SH.MET.D5.5MM	1
4902 70	SPOT WELD TOOL F.SH.MET.D7.0MM	1



Set-Off Punch Pliers

- Swiveling head with 5 mm punch
- For off-setting of sheet metal edges up to 1 mm capacity and for punching of sheet metals
- Set-off depth: 13 mm
- Width of jaws: 22 mm

Article No.	Article Description	QTY
4902 50	SET-OFF PUNCH PLIERS	1



Telescope-Measuring Stick Sets

- For measuring of car bodies after car accidents
- Permanent control of pulling and straightening workings
- Comparative measurements when adapting new parts
- Makes secure testing and final checking of completed workings possible
- Quick and easy ascertainment of damages for offers, insurances, workshop plannings
- Length and depth measurement at the same time
- Accuracy of measurement ± 1 mm
- Measured value on the display
- Measuring range: 920 - 2600 mm



Article No.	Article Description	QTY
4900 2600	TELESCOPE-MEASUR. STICK 2600MM	1

Including in delivery:

- 1x Telescopic measuring stick
- 2x Straight measuring prods
- 2x Angled measuring prods 40 mm
- 2x Angled measuring prods 200 mm with depth scale
- 2x Conical adaptors

Split Gauge

- Easy and precise adjustment of doors, bonnets, car screens and add-on parts
- Time-saving as no loosening and tightening of screws are needed
- Immediately fix new parts to the right position
- Soft suction base, thus no damage of painted surfaces
- Head and suction base can be bent up for strongly profiled surfaces
- Length can be adjusted to 65 mm

Technical Data

Length:	113 mm
Height:	41 mm
Max. split width:	9 mm
Step:	1 mm
Suction base:	30 mm

Article No.	Article Description	QTY
4906 18	SPLIT GAUGE SET IN CASE	1



Body-Clamp-Set Accessories

- The 'second hand' for all repair workings with body sheets
- Clamps can be easily attached at narrowest spots
- Easy checking of the gap width at doors etc.

Application field:

- Rear window
- Boot/lid
- Door pillar
- Fastback
- Foot board

Application:

1. Attach the clamp
2. Check the gap widths and the correct adjustment of the sheet
3. After welding remove the clamps with the releasing tools

Article No.	Article Description	QTY
4902 1	PULLER FOR BODY CLAMPS	1
4902 3	BODY CLAMP SIZE 3 (2,0-2,4MM)	1
4902 4	BODY CLAMP SIZE 4 (2,7-3,0MM)	1

Art. No. 4902 90:

- 1x Clamp releasing tools
- 8x Clamps (1.3 - 1.8 mm)
- 4x Clamps (2.0 - 2.4 mm)
- 3x Clamps (2.7 - 3.0 mm)



Body Fixing Magnets

- For easy fixation of add-on parts at car bodies such as doors, lids, sills, mouldings etc.
- For fixing of tarpaulins
- Diameter supporting surface: 88 mm

Article No.	Article Description	QTY
4907 882055	PK(4)BODY FIXING MAGNETS	1



Winbag

Application field for construction:

- For quick and easy mounting of standard windows
- The soft air bag protects and prevents defects and scratchings
- The Winbag makes a precise, easy and stepless adaption of the window possible
- Even big windows can be mounted by only one person

Application field for automotive:

- For quick and protective opening of car doors
- Winbag can be positioned easily between door and frame or between window and rubber strips
- The soft air bag protects lacquer, frames, strips and glasses
- The valve makes a stepless adjustment of the bag size possible

Working and security advices:

- Keep the mounting bag away from sharpened and pointed objects
- A low pressure loss of Winbag has to be considered
- Make sure that the windows are closed during operation
- The Winbag is able to exert enormous pressure on the environment and therefore has to be pumped up with care



Application Automotive:



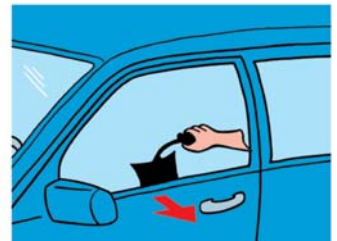
1a:
One or two Winbags are inserted between the car door and the frame. The Winbags will be easier to position if they are first sprayed with FÖRCH silicone spray.



2a:
The Winbags can be pumped up carefully until there is enough space to slide the locking system in.



1b:
Place one or two Winbags between the window pane and the rubber strip on the car. Slide the Winbag in place as shown on the illustration.



2b:
The Winbag is pumped up using the hand pump. This generates a small gap between the window pane and the car door. The Winbag holds the pressure and ensures the intermediate space. This allows you to use traditional tools for opening the door leaving both hands free.

Technical Data

Pressure:	approx. 100 kg/pc.
Strength:	
- Not pumped:	2 mm
- Max. pumped	70 mm
Material:	Fibre reinforced plastic

Article No.	Article Description	QTY
4912 5	FÖRCH-WINBAG	e 4

Dent-Pulling-Set **VAROBOXX**

- damage caused by hail and dents can be removed quickly and cost effectively without having to repaint
- range in VAROBOXX 2
- mini set 14 pieces
- maxi set 15 pieces



Article No.	Article Description	QTY
9003 4917 1	DENT-PULLING-SET MINI	1
9003 4917 2	DENT-PULLING-SET MAXI	1

Contents art.no. 9003 4917 1:

- 5x art. no. 4917 513 black glue sticks
- 1x art. no. 4917 601 Dent-Pulling device
- 1x art. no. 4917 603 Dent-Pulling device 100
- 2x glue adapter 16 mm
- 2x glue adapter 22 mm
- 2x glue adapter 27 mm
- 2x glue adapter 32 mm
- 1x art. no. 5345 3002 hot glue gun
- 1x art. no. 6110 1000 1K-PUR/ASK cleaner
- 1x art. no. 6260 2799 plastic spatula 120 mm

contents art. no.. 9003 4917 2 identical to art. no.. 9003 4917 1 additionally:

- 4917 602 Dent-Pulling mallet 1100 g



Dent Pulling Set - Accessories

Art.-No. 4917 540: Hammer head made of aluminium with exchangeable pointed head (cone and ball)

Art.-No. 4917 604:

- Drawbridge for intake of 5 adhesion adapter for pulling out a number of side shocks at the same time

Art.-No. 5344 195:

- Glue gun with outer melting temperature of 190 °C

Article No.	Article Description	QTY
4917 530	PCK(2)MARKING PINS WHITE-YELL.	1
4917 540	DENT PULLING HAMMER	1
4917 604	DENT PULLING DRAWBR. WITH 5INT	1
5344 195	GLUE GUN HB195	1



Dent-Pulling Lamps

Art.-No. 5423 11 39:

- Power supply: 220 V
- Halogen bulb

Art.-No. 4917 6000:

- 4 LED strips, individually switchable, 2x white light – 2x warm light
- 120 SMD-LEDs
- Frosted glass pane to prevent glare
- With integrated suction cup
- 5 m connecting cable with cigarette lighter plug
- Working temperature: -10 °C to 45 °C
- Input power supply: 12 VDC
- Output: 12 VDC 20 W/1.6 A

Article No.	Article Description	QTY
5423 17	LAMP HOLD.D-4CM FLEX SUCT.BASE	1
4917 6000	LED-BUCKLING LAMP 12V	1



4917 6000

5423 17

Dent Pulling Accessories **VAROBOXX**

- Range in VAROBOXX 1
- 123 pce
- Made of shock-resistant ABS plastic

Contents:

Article No.	Article Description	Quantity
4917 1 10	BTL(5)ADHESIVE ADAPTER 10MM R	1
4917 1 13	BTL(5)ADHESIVE ADAPTER 13MM R	1
4917 1 16	BTL(5)ADHESIVE ADAPTER 16MM R	1
4917 1 19 41	BTL(5)ADH.ADAPTER 19X41MM R	1
4917 1 21 21	BTL(5)ADH.ADAPTER 21X21MM R	1
4917 1 22	BTL(5)ADHESIVE ADAPTER 22MM R	1
4917 1 27	BTL(5)ADHESIVE ADAPTER 27MM R	1
4917 1 32	BTL(5)ADHESIVE ADAPTER 32MM R	1
4917 1 40	BTL(5)ADHESIVE ADAPTER 40MM E	1
4917 1 50 30	BAG(5)ADHES.APAPTER 50X30MM	1
4917 2 10	BTL(5)ADHES. ADAPTER H.10MM R	1
4917 2 13	BTL(5)ADHES. ADAPTER H.13MM R	1
4917 2 16	BTL(5)ADHES. ADAPTER H.16MM R	1
4917 2 19 41	BTL(5)ADHES.ADAPT.H.19X41MM R	1
4917 2 21 21	BTL(5)ADHES.ADAPT.H.21X21MM R	1
4917 2 22	BTL(5)ADHES.ADAPTER H.22MM R	1
4917 2 27	BTL(5)ADHES.ADAPTER H.27MM R	1
4917 2 32	BTL(5)ADHES.ADAPTER H.32MM R	1
4917 2 40	BTL(5)ADHES.ADAPTER H.40MM E	1
4917 2 50 30	BTL(5)ADHES.ADAPT. 50X30MM 2E	1
4917 2 65 40	BTL(5)ADHES.ADAPT. 65X40MM 2E	1
4917 513	PCK(5)GLUE STICKS BLACK	1
4917 520	PCK(5)ADHES.ADAPT.TRANSP.PROF.	1
4917 521	PCK(5)GLUE STICKS BLUE	1
4917 530	PCK(2)MARKING PINS WHITE-YELL.	1
4917 603	DENT-PULLING DENT STEM D.10	1
9003 1	VAROBOXX SIZE:1 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	2
9004 1 0 1	DIVI.INSET BOX SIZE VAROBOXX 1	3
9004 1 5 5	INSET BOX RED 5X5CM VAROBOXX1	18
9004 1 5 20	INS.BOX ORAN.5X20CM VAROBOXX 1	3

Article No.	Article Description	QTY
9003 4917	DENT-PULLING ACCESSORY SET	1



Dent-Pulling-Klebeadapter

Elastic adhesive adapter dark blue

- particularly suitable for the finish (e.g. hail / slight parking damage) as they are able to remove the residuals

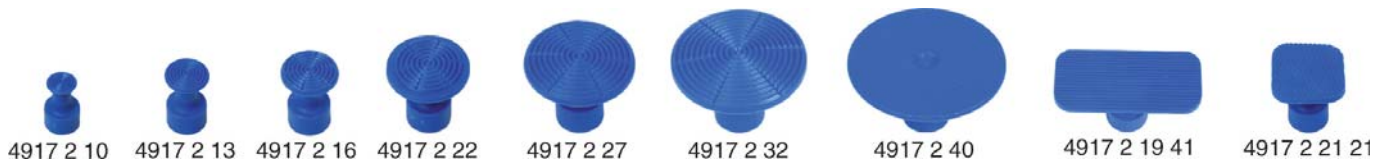


Article No.	Article Description	QTY
4917 1 10	BTL(5)ADHESIVE ADAPTER 10MM R	1
4917 1 13	BTL(5)ADHESIVE ADAPTER 13MM R	1
4917 1 16	BTL(5)ADHESIVE ADAPTER 16MM R	1
4917 1 19 41	BTL(5)ADH. ADAPTER 19X41MM R	1
4917 1 21 21	BTL(5)ADH. ADAPTER 21X21MM R	1
4917 1 22	BTL(5)ADHESIVE ADAPTER 22MM R	1
4917 1 27	BTL(5)ADHESIVE ADAPTER 27MM R	1
4917 1 32	BTL(5)ADHESIVE ADAPTER 32MM R	1
4917 1 40	BTL(5)ADHESIVE ADAPTER 40MM E	1

(G = groove structure, E= eroded structure)

Fibre-reinforced, light blue adhesive adapter

- these have the biggest traction as they remain in the structure (e.g. re-forming sheet metal for painting preparation)



Article No.	Article Description	QTY
4917 2 10	BTL(5)ADHES. ADAPTER H.10MM R	1
4917 2 13	BTL(5)ADHES. ADAPTER H.13MM R	1
4917 2 16	BTL(5)ADHES. ADAPTER H.16MM R	1
4917 2 19 41	BTL(5)ADHES. ADAPT.H.19X41MM R	1
4917 2 21 21	BTL(5)ADHES. ADAPT.H.21X21MM R	1
4917 2 22	BTL(5)ADHES. ADAPTER H.22MM R	1
4917 2 27	BTL(5)ADHES. ADAPTER H.27MM R	1
4917 2 32	BTL(5)ADHES. ADAPTER H.32MM R	1
4917 2 40	BTL(5)ADHES. ADAPTER H.40MM E	1

(G = groove structure, E= eroded structure)

Oval adhesive adapter

Art.-No. 4917 1 50 30:

- Suitable for soft sheet metal, can be matched very well to the contours

Art.-No. 4917 2 50 30:

- Due to its toughened plastic adhesive surface, this adapter is suitable for more solid sheet metal and larger grazes, high traction

Art.-No. 4917 2 65 40:

- Due to its toughened central axis, this adapter is suitable for larger damage e.g. sheet metal sills or side panels, using several adapters glued to one another to also deal with larger surfaces



Article No.	Article Description	QTY
4917 1 50 30	BAG(5)ADHES. ADAPTER 50X30MM	1
4917 2 50 30	BTL(5)ADHES. ADAPT. 50X30MM 2E	1
4917 2 65 40	BTL(5)ADHES. ADAPT. 65X40MM 2E	1

Glue-Pulling Tab, Ball-Shaped, Yellow

- ball or mushroom-shaped
- for increased tensile force in the dent, since they form-fit the dent

Round Glue-Pulling Tab



4917 3 12

4917 3 16

4917 3 22

4917 3 27

4917 3 32

Square Glue-Pulling Tab



4917 3 15 15

4917 3 21 21

4917 3 27 27

Rectangular Glue-Pulling Tab



49173 10 20

49173 16 32

Triangular Glue-Pulling Tab



4917 3 23 2323

4917 3 30 3030

Article No.	Article Description	QTY
4917 3 12	PCK(5)GLUE-PULL.TAB 12MM REB	1
4917 3 16	PCK(5)GLUE-PULL.TAB 16MM REB	1
4917 3 22	PCK(5)GLUE-PULL.TAB 22MM REB	1
4917 3 27	PCK(5)GLUE-PULL.TAB 27MM REB	1
4917 3 32	PCK(5)GLUE-PULL.TAB 32MM REB	1
4917 3 15 15	PCK(5)GL.-PULL.TAB 15X15MM REB	1
4917 3 21 21	PCK(5)GL.-PULL.TAB 21X21MM REB	1
4917 3 27 27	PCK(5)GL.-PULL.TAB 27X27MM REB	1
4917 3 10 20	PCK(5)GL.-PULL.TAB 10X20MM REB	1
4917 3 16 32	PCK(5)GL.-PULL.TAB 16X32MM REB	1
4917 3 23 2323	P(5)GL.-PULL.TAB 23X23X23MMREB	1
4917 3 30 3030	P(5)GL.-PULL.TAB 30X30X30MMREB	1

(REB= grooved-eroded-ball-shaped)

Dent pulling adhesive sticks

- special hot melt adhesive for removing dents without causing damage to the paintwork
- UV-ageing resistant and water-resistant



Art. Description:
Art.-No.
Short Description:

Adhesive Sticks Black
4917 513
high durability on paint surfaces
at low temperature



Adhesive Sticks Transparent
4917 520
highest tensile strength and toughness
best suited for small dents



Adhesive Sticks blue
4917 521
due to its excellent adhesion
and dissolving capacity of one of
the most universal hot melt
adhesives. Can be removed
without leaving a residue from all
paint surfaces in part without
solvents.

Temperature (recommutation): +10°C to + 20°C

Colour: black
Length: 200 mm
Diameter: 11.3 mm
VPE: 5
Weight (VPE): 108 g

+20 °C to + 30 °C and higher
brown-transparent
200 mm
11.3 mm
5
106 g

+5 °C to +15 °C
blue
200 mm
11.3 mm
5
98 g

Technical Data

Base:	ethylvinylacetate- copolymer	polyamide	ethylvinylacetat
Density (at + 20 °C):	approx. 1.0g/cm ³	approx. 1.0g/cm ³	0.98 g/cm ³
Melting Point:	approx. 90 °C	approx. 140 °C	approx. 87 °C
Processing Temperature:	170 – 200 °C	180 – 210 °C	180 – 200 °C
Open Time:	approx. 45 sec.	approx. 40 sec.	15 – 30 sec.
Setting Time:	approx. 25 sec.	approx. 20 sec.	25 sec.
Tensile Strength:	min. 200 N/cm ²	min. 400 N/cm ²	min. 150 N/cm ²
Viscosity:	approx. 4.500 mPas at 180 °C	approx. 3.500 mPas at 190 °C	approx. 9.500 mPas at 190 °C
Heat Stability:	approx. 60 °C	approx. 110 °C	approx. 80 °C
Shelf Life:	24 months	24 months	24 months

(Continued on next page)

Dent pulling adhesive sticks



Art. Description:
Art.-No.
Short Description:

Adhesive Sticks Amber
4917 522
extreme tensile strength
use all-year round

Adhesive Sticks Brown
4917 523
usable at
temperatures
below 20 °C

Temperature (recommodation): +10 °C to +30 °C
Colour: amber
Length: 200 mm
Diameter: 11.3 mm
VPE: 5
Weight (VPE): 105 g

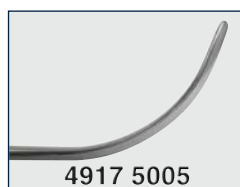
+2 °C to +20 °C
brown
200 mm
11.3 mm
5
100 g

Technical Data

Base:	polyamide	vinylacetate
Density (at + 20 °C):	0.9 g/cm ³	0.9 – 1.1 g/cm ³
Melting Point:	85 °C	ca. 87 °C
Processing Temperature:	170-190 °C	180 – 200 °C
Open Time:	40 sec.	15 – 30 sec.
Setting Time:	70 sec	25 sec.
Tensile Strength:	min 300 N/cm ²	min. 400 N/cm ²
Viscosity:	approx. 9.000mPas at 190 °C	approx. 9.500 mPas at 190 °C
Heat Stability:	approx. 60 °C	approx. 80 °C
Shelf Life:	24 months	24 months

Article No.	Article Description	QTY
4917 513	PCK(5)GLUE STICKS BLACK	1
4917 520	PCK(5)ADHES.ADAPT.TRANSP.PROF.	1
4917 521	PCK(5)GLUE STICKS BLUE	1
4917 522	PCK(5)GLUE STICKS AMBER	1
4917 523	PCK(5)GLUE STICKS BROWN	1

Dent pushing set



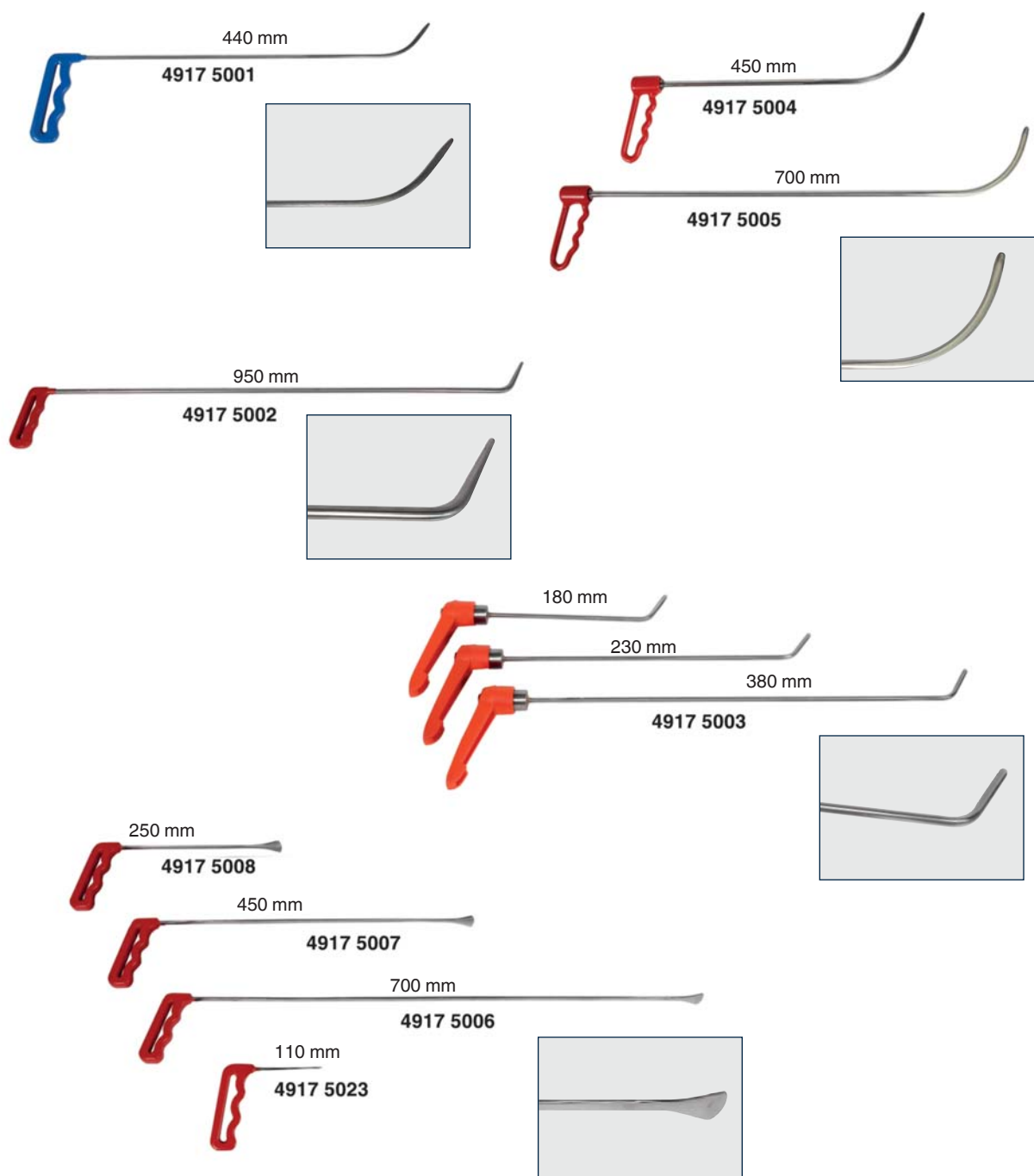
- Professional dent repair system for removing dents from vehicles without damaging the paintwork
- Versatile applicable:
 - damage caused by hail
 - parking dents
 - on vehicle roofs, doors, bonnets

Article No.	Article Description	QTY
4917 50	DENT PUSHING SET 9-PIECE	1

Contents: Article No. 4917 50:

Article-No.	Article Description	Quantity
4910 579560	TENSION CORD WITH S-HOOK	1
4917 540	DENT PULLING HAMMER	1
4917 603	DENT-PULLING DENT STEM D.10	1
4917 5001	STRAIGHT.HOOK NO.2 Ø5X440MM	1
4917 5002	STRAIGHT.HOOK NO.14 Ø11X950MM	1
4917 5005	ROTARY GRIPP HOOK,LO Ø9X700MM	1
4917 5007	DOVE-TAIL STRAIGHT.HOOK 450MM	1
4917 5009	ROTARY GRIP HOOK Ø7X380MM	1
4917 5015	ROOF BEARING WITH BELT HOLDER	1
4993 120	ALU TOOL CASE 120 CM	1

Dent pushing accessories

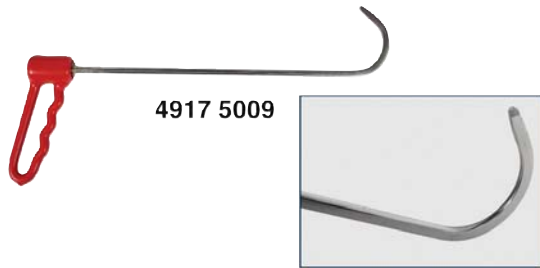


Article No.	Article Description	QTY
4917 5001	STRAIGHT.HOOK NO.2 Ø5X440MM	1
4917 5002	STRAIGHT.HOOK NO.14 Ø11X950MM	1
4917 5003	SMALL STR.HOOK SET Ø4MM 3PIECE	1
4917 5004	ROTARY GRIPP HOOK,SH Ø7X450MM	1
4917 5005	ROTARY GRIPP HOOK,LO Ø9X700MM	1
4917 5006	DOVE-TAIL STRAIGHT.HOOK 700MM	1
4917 5007	DOVE-TAIL STRAIGHT.HOOK 450MM	1
4917 5008	DOVE-TAIL STRAIGHT.HOOK 250MM	1
4917 5023	DOVE-TAIL STR.HOOK MINI 110MM	1

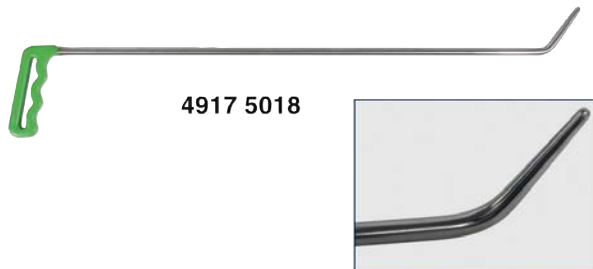
Technical Data

Art.-No.	Length:
4917 5001	440 mm
4917 5002	950 mm
4917 5003	180, 230 and 380 mm
4917 5004	450 mm
4917 5005	700 mm
4917 5006	700 mm
4917 5007	450 mm
4917 5008	250 mm
4917 5023	110 mm

Dent pushing accessories



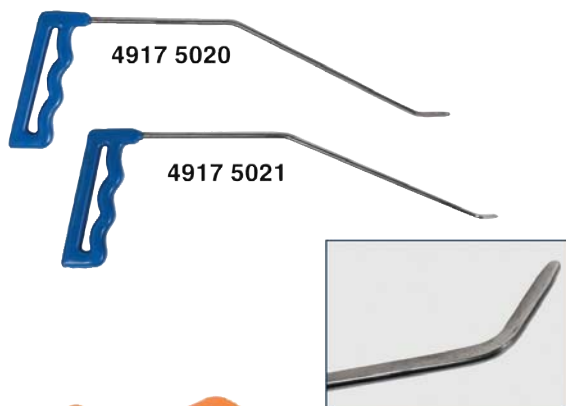
4917 5009



4917 5018



4917 5019



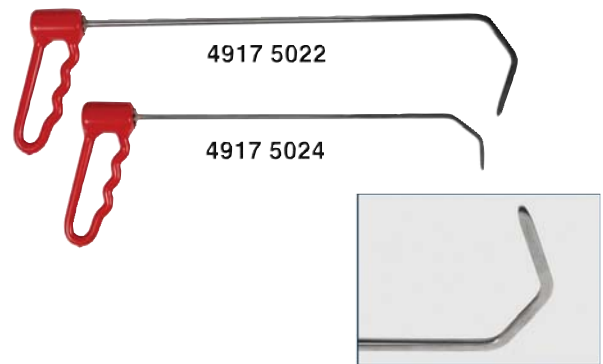
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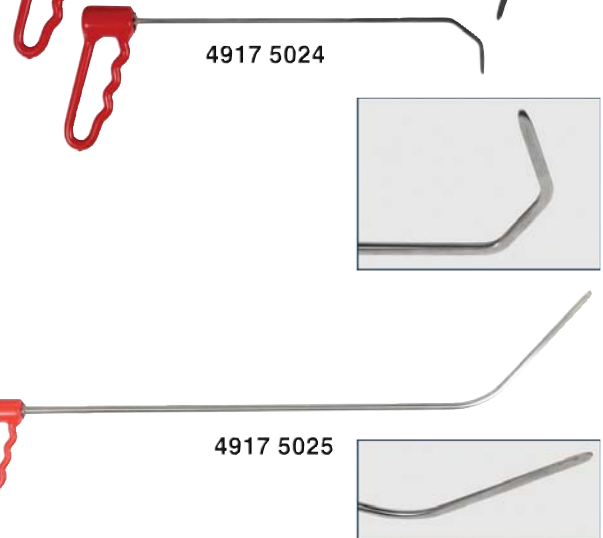
4917 5021



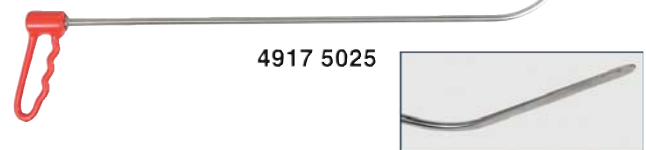
4917 5015



4917 5022



4917 5024



4917 5025



4917 5017



4917 5017

Article No.	Article Description	QTY
4917 5009	ROTARY GRIP HOOK Ø7X380MM	1
4917 5015	ROOF BEARING WITH BELT HOLDER	1
4917 5017	DOOR WINDOW PROT.W.GLASS FIBRE	1
4917 5018	STRAIGHT.HOOK NO.10Ø9X620MM GN	1
4917 5019	STRAIGHT.HOOK NO.12Ø9X700MM GN	1
4917 5020	STRAIGHT. HOOK R. Ø9X295MM BU	1
4917 5021	STRAIGHT. HOOK L. Ø9X295MM BU	1
4917 5022	ROT.GRIP HOOK(V)Ø7X420MM RED	1
4917 5024	ROT.GRIP HOOK DOUBLE Ø5X350 MM	1
4917 5025	ROT.GRIP HOOK (N) Ø9X730MM RED	1
4910 579560	TENSION CORD WITH S-HOOK	1

Technical Data	
4917 5009	380 mm
4917 5015	–
4917 5017	–
4917 5018	620 mm
4917 5019	700 mm
4917 5020	295 mm (right)
4917 5021	295 mm (left)
4917 5022	420 mm
4917 5024	350 mm
4917 5025	730 mm

Plastic Repair Set

- 44-piece in plastic case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 712
- Especially parts which cannot be treated with bonding technology and sophisticated material made of thermoplastic material (PP, PE and PP-EPDM) can be repaired and processed
- In most cases the repair can be done without dismantling a part

Article No.	Article Description	QTY
4916 2	PLASTIC REPAIR SET	1

Contents:

- 1x Art. No. 4916 211 Plastic repair welding piston 75 W
- 1x Art. No. 4916 213 Plastic repair cleaning pin
- 1x Art. No. 4916 214 Brass brush
- 6x Art. No. 4916 215 Aluminium fabric 10 x 10 cm
- 5x Art. No. 4916 216 Plastic repair stick ABS 20 cm
- 5x Art. No. 4916 217 Plastic repair stick ABS/PC 20 cm
- 5x Art. No. 4916 218 Plastic repair stick PC 20 cm
- 5x Art. No. 4916 219 Plastic repair stick PE 20 cm
- 5x Art. No. 4916 220 Plastic repair stick PP 20 cm
- 5x Art. No. 4916 221 Plastic repair stick PP Flex 20 cm
- 5x Art. No. 4916 222 Plastic repair stick PS 20 cm



Plastic Repair Set - Accessories

Article No.	Article Description	QTY
4916 215	BAG(6)ALUMINIUM FABRIC 10X10CM	1
4916 216	BAG(25)PLST.REP.STICK ABS 20CM	1
4916 217	BAG(25)PL.REP.STICK ABS/PC20CM	1
4916 218	BAG(25)PL.REPAIR STICK PC 20CM	1
4916 219	BAG(25)PL.REPAIR STICK PE 20CM	1
4916 220	BAG(25)PL.REPAIR STICK PP 20CM	1
4916 221	BAG(25)PL.REP.STICK PPFLEX20CM	1
4916 222	BAG(25)PL.REPAIR STICK PS 20CM	1
4916 223	BAG(25)PL.REPAIR STICK ASA20CM	1
4916 224	BAG(25)PL.REP.STICK-PA-6 20CM	1
4916 226	BAG(25)PL.REP.STICK-PPEPDM20CM	1
4916 227	BAG(25)PL.REP.STI.PVC HARD20CM	1
4916 228	BAG(25)PL.REP.STI.PVC SOFT20CM	1
4916 229	BAG(25)PL.REP.STICK-TPE 20CM	1
4916 230	BAG(25)PL.REP.STICK-PE-HD 20CM	1

Short Name	Name
ABS	Acrylnitril-Butadien-Styrol (-Copolymerisat)
ABS/PC	Mischpolymer ABS und PC
PC	Polycarbonat
PE	Polyethylen
PP	Polypropylen
PP-Flex	Polypropylen flexibel
PS	Polystyrol
ASA	Acrylnitril-Styrol-Acrylester (-Copolymerisat)
PA-6	Polyamid 6 / Polycaprolactam (unverstärkt)
PP-EPDM	Polypropylen Ethylen-Propylen-Dien-Kautschuk
PVC hard	Polyvinylchlorid hartd
PVC soft	Polyvinylchlorid soft
TPE	thermoplastic Elastomer



Plastic Repair Kit Rechargeable Battery EasyClip

The Plastic Repair Kit Rechargeable Battery Easy Clip is used for fixing / repairing non-heat-resistant plastic parts (thermoplastics). By welding special clips into the plastic cracks in bumpers, spoilers, lamp holders, mirrors, etc. can be fixed safely and permanently for the final plastic repair.

- Fast operation without unnecessary destruction of material
- Battery operation (rechargeable) without annoying cable
- High stability of the repair due to special brackets out of stainless spring steel according to DIN 17224 / 1.4310
- 4 different bracket shapes, especially for corners or edge damages
- Angled bracket adapter 45 ° and 80 ° included which make working in tight, hard to reach areas easier
- Lighting of the repair site during the welding when using the straight clamp adapter
- Two levels (High / Low), thus also work on thin or soft plastic parts possible
- Not applicable / limited suitability for thermoplastics, elastomers and glass fibre reinforced plastics

Article No.	Article Description	QTY
4916 3	PLASTIC REP.SET BATT.EASY CLIP	1

Delivery:

- Plastic case
- Handle rechargeable battery Easy
- Storage box including 25 pieces of W, V, S-, and wave clips and 2 angled bracket adapters of each - 45 ° and 80 °
- 12V battery charger



Spacers for Easy Clip rechargeable battery

- due to the spacers, of the clip is prevented from penetrating when being melted into the plastic components

Contents:

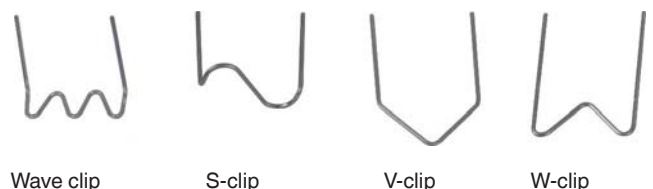
- 4 different adapter pairs as short, long, 90° and 45° models
- short spacer
- long spacer



Article No.	Article Description	QTY
4916 3 5	SPACERS SET FOR 4916 3	1

Replacement clips for recharg. battery Easy Clip

Article No.	Article Description	QTY
4916 3 1	BAG(100) WAVE CLIP 0.7MM	1
4916 3 2	BAG(100) S-CLIP 0.7MM	1
4916 3 3	BAG(100) V-CLIP 0.7MM	1
4916 3 4	BAG(100) W-CLIP 0.7MM	1



Wave clip

S-clip

V-clip

W-clip

Hot Stapler Plastic Repair Kit 230 V

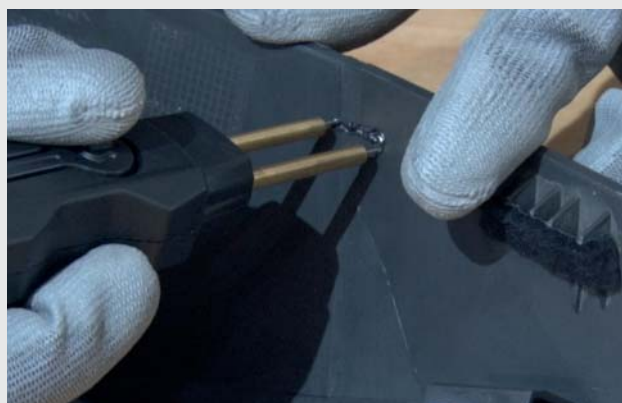
- Storage box with 3 x 100 spring steel staples
- 2 different staple shapes

Your Advantage / Benefit

- Small, handy device
- LED display shows when ready to weld
- Work quickly without destroying material unnecessarily
- Repair afforded high mechanical strength by special staples made of stainless spring steel

Application

- For fixing / repairing non-heat resistant plastic parts such as bumpers, spoiler, lamp holders, mirrors etc.

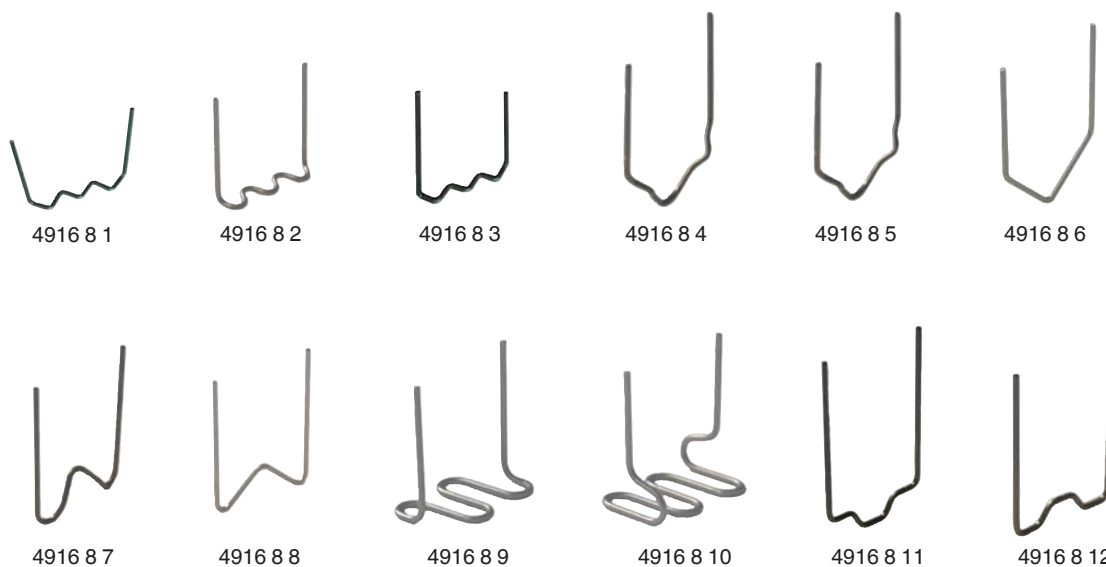


Article No.	Article Description	QTY
4916 8	HOT STAPL.PLASTIC REP.KIT 230V	1

Scope of Delivery:

- Plastic carrying-case
- Spot welder with 220 V power supply unit
- 3 x 100 spring steel staples

Replacement clips for Plastic-Repair-Set 230V



Article No.	Article Description	QTY
4916 8 1	KT(100)CLIPS COILED 0,6MM	1
4916 8 2	KT(100)CLIPS COILED 0,7MM	1
4916 8 3	KT(100)CLIPS COILED 0,8MM	1
4916 8 4	KT(100)CL.INSIDE CORNER 0,6MM	1
4916 8 5	KT(100)CL.INS.CORNER CUR.0,7MM	1
4916 8 6	KT(100)CL.INS.CORNER STR.0,7MM	1
4916 8 7	KT(100)CL.OUT.CORNER CUR.0,7MM	1
4916 8 8	KT(100)CL.OUT.CORNER STR.0,7MM	1
4916 8 9	KT(100)CL.COILD.3 POINT 0,7MM	1
4916 8 10	KT(100)CL.COILED.5 POINT 0,7MM	1
4916 8 11	KT(100)CL.DOUBLE CURLED 0,7MM	1
4916 8 12	KT(100)CL.DOUBLE CURLED 0,8MM	1

Parking Sensor Toolkit, 11-piece

- In a plastic case Art.-No. 4415 14 47 1 with VAROsoft system insert Art.-No. 9026 641
- For precision drilling, punching and milling of holes for fitting parking sensors
- For repairs after accidents or for retro-fitting of parking sensors
- Simple handling

Article No.	Article Description	QTY
4916 6	PARKING SENSORS TOOLKIT 11-PCE	1

Contains 1 each:

- Art.-No. 5522 23: Stepped drill 1-piece 4 – 30 mm S10 mm
- Art.-No. 5975 1 10: Tungsten carbide milling tool KZ/ZYAS Form 1 D10
- Art.-No. 5975 2 10: Tungsten carbide milling tool KZ/WRC Form 2 D10
- Art.-No. 5975 6 10: Tungsten carbide milling tool KZ/SPG Form 6 D10
- Art.-No. 5975 7 10: Tungsten carbide milling tool KZ/RBF Form 7 D10
- Art.-No. 5975 10 12 3: Radial milling cutter SZ Form 10 D12
- Art.-No. 4944 18: Sheet metal punch 18 mm
- Art.-No. 4944 20: Sheet metal punch 20 mm
- Art.-No. 4944 225: Sheet metal punch 22.5 mm
- Art.-Nr. 4944 26: Blechlocher 26 mm
- Art.-Nr. 5501 102: Spiral drill bit 338, ground 10.2 mm



1. Ø 10.2 pilot drill



2. Apply the punch on painted side and punch out by screwing down



3. Precision-fit punched hole for parking sensor

Sheet metal single-hole punch

Article No.	Article Description	QTY
4944 18	SHEET MET.SING.HOLE PUNCH 18MM	1
4944 19	SHEET MET.SING.HOLE P.19MM	1
4944 20	SHEET MET.SING.HOLE PUNCH 20MM	1
4944 225	SHEET MET.SING.HOLE P. 22,5MM	1
4944 26	SHEET MET.SING.HOLE P. 26MM	1
4944 29	SHEET MET.SING.HOLE P.29MM	1
4944 32	SHEET MET.SING.HOLE P. 32MM	1
4944 35	SHEET MET.SING.HOLE P. 35MM	1
4944 40	SHEET MET.SING.HOLE P. 40MM	1
4944 50	SHEET MET.SING.HOLE P. 50MM	1



Cart Windscreens - „Easy II“ Cutting Tool

- is quickly and easily positioned on the windscreen due to suction
- can be rotated in any direction
- pulls the wire back like a saw
- allows the windscreen to be removed without special tools and without a second person
- no additional costs due to: second person, model-specific knife special tools and additional storage of different cutting tools
- cutting wire length: 50 m

Article No.	Article Description	QTY
4915 42	ASK REMOVAL TOOL EASY II	1

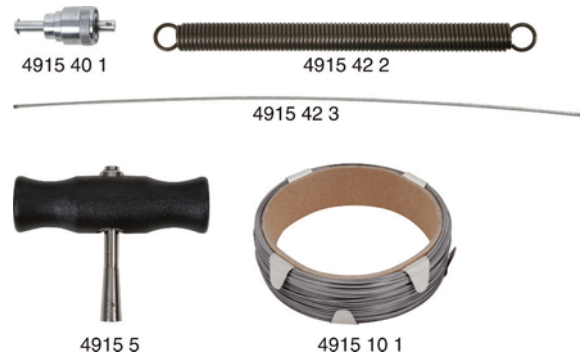
Each contains 1x:

- art. no. 4915 5 handle for cutting wire
- art. no. 4915 10 1 cutting wire 4-edge(50 m)
- art. no. 4915 401 ASK-easy quick coupling



Windscreen Removal „Easy II“ Accessories

Article No.	Article Description	QTY
4915 40 1	ASK-EASY QUICK COUPLING	1
4915 42 2	ASK-EASY II TENSION SPRING	1
4915 42 3	ASK-EASY II BOWDEN CABLE	1
4915 5	WIRE HANDLE FOR CUTTING WIRE	1
4915 10 1	RO(50M)CUTTING WIRE SQUARE	1



ASK Windscreen Removal Drawing Knife Set

- 9-part in VAROsoft tool deposit Art. No. 9026 120
- Removal of bonded windscreens
- Easy and fast application
- Protection against damages due to plastic sheathing
- Optimal grip for safe hold
- Application by only one person

Article No.	Article Description	QTY
4915 41	ASK-DRAWING KNIFE - SET	1

Contents (1x of each):

- Art. No. 4751 11: ASK professional gasket scraper
- Art. No. 4751 16: PK(10) Blade 16 mm for ASK scraper
- Art. No. 4751 20: PK(10) Blade 20 mm for ASK scraper
- Art. No. 4912 16: Interior covering release lever G
- Art. No. 4915 4 19: Drawing blade rust-free 19 mm
- Art. No. 4915 4 25: Drawing blade rust-free 25 mm
- Art. No. 4915 4 38: Drawing blade rust-free 38 mm
- Art. No. 4915 41 1: Drawing knife with blade 25 mm
- Art. No. 4915 41 2: Double-trim lever



ASK Windscr. Removal Draw. Knife Set Accessor.

Article No.	Article Description	QTY
4915 4 19	DRAWING BLADE RUST-FREE 19MM	1
4915 4 25	DRAWING BLADE RUST-FREE 25MM	1
4915 4 38	DRAWING BLADE RUST-FREE 38MM	1
4915 41 1	DRAWKNIFE WITH BLADE 25MM	1
4915 41 2	DOUBLE-TRIM LEVER	1
4912 16	INTERIOR COVER.RELEASE LEVER G	1
4751 11	ASK-GASKET SCRAPER	1 z
4751 16	PK(10)BLADE 16MM ASK-SCRAPER	1
4751 20	PK(10)BLADE 20MM ASK-SCRAPER	1



Windscreen Removal Kit

- Windscreen removal kit
- Application for two people

Article No.	Article Description	QTY
4915 1	WINDSCREEN REMOVAL KIT COMPL.	1

Contents:

- 1x Art. No. 4915 5 Wire handle for cutting wire
- 1x Art. No. 4915 7 ASK lifter for cutting wire
- 1x Art. No. 4915 8 Wire piercing awl T
- 1x Art. No. 4915 10 Square cutting wire (50m)



Windscreen Removal Kit Accessories

Article No.	Article Description	QTY
4915 5	WIRE HANDLE FOR CUTTING WIRE	1
4915 7	ASK LIFTER FOR CUTTING WIRE	1
4915 8	WIRE FEEDING CHISEL T	1
4915 10	SQUARED CUTTING WIRE 50M	1



- Enables the safe removal of strongly secured car windows, without damaging the dashboard, roof linings and other Panels

Article No.	Article Description	QTY
4915 7 1	ASK-GEGENHALTER F.SCHN.DR.KURZ	1

Kombi-T Wire Piercing Awl

3-in-1-piercing awl allows:

- Pushing the cutting thread/cutting wire through from inside to outside
- Pulling in the cutting thread/cutting wire using the hole or side cut-out
- High-quality SK5 steel, shape reinforcement provides increased bend resistance for the highest demands
- Ergonomically-shaped T handle made from PE for high tension and pressure transmission



Article No.	Article Description	QTY
4915 8 1	ASK-WIRE PIERC.AWL KOMBI-T	1

Cutting Wire

- Art.-No. 4915 10: Tensile strength ~ 2,500 N/mm²
- Art.-No. 4915 10 1: Tensile strength ~ 2,400 N/mm²
- Art.-No. 4915 11: Tensile strength ~ 2,000 N/mm²
- Art.-No. 4915 15: Tensile strength ~ 2,200 N/mm²

Article No.	Article Description	QTY
4915 10	SQUARED CUTTING WIRE 50M	1
4915 10 1	RO(50M)CUTTING WIRE SQUARE	1
4915 11	CUTTING WIRE BRAIDED 22M	1
4915 15	RO(50M)SQ.CUTTING WIRE PL.COIL	1



ASK Removal Protection Set, 2-Piece

Universally applicable for all vehicles with bonded windscreens

Article No.	Article Description	QTY
4915 70	ASK REMOVAL PROTECT.SET 2-PCS	1

Included in delivery: 1x 450 x 300 x 2 mm 1x 270 x 200 x 1.6 mm



Roll Out - Windscreen Removal System

- Suitable for all bonded windscreens
- 'One-man' application
- Prevents time-consuming paint repairs
- Makes the removal of screen/body with minimum tolerance easier
- Windows can be reused after removal
- No power source or accumulators necessary
- Less need of replacement material (mouldings, paint repair etc.)
- Less strain for arms and shoulder of the user
- This type of removal process prevents harmful steam such as thermo separation method
- No odour nuisance



Article No.	Article Description	QTY
4907 842010	ROLL OUT2004 WINDSCR.REMOV.SYS	1

Contents:

- Art.-No. 4907 848005: Windlass Ø 120 mm
- Art.-No. 4907 848039: Windlass, double-coil Ø120 mm
- Art.-No. 4907 848027: Switching ratchet with ball handle 200 mm
- Art.-No. 4907 848001: Wire feeding chisel for Roll Out
- Art.-No. 4907 848007: Parabolic chisel
- Art.-No. 4907 848003: Interior protection set (4 parts)
- Art.-No. 4907 848004: Nail set consisting of 8x guiding nails and 2x curved nails
- **Image 1:** Extension piece 150 mm
- **Image 2:** Extension piece 75 mm
- **Image 3:** Protective goggles
- **Image 4:** Assembly lifter
- **Image 5:** Pair of protective gloves
- **Image 6:** Roll Out cutting wire Ø 0.75 mm, 750 m

Roll Out Windscreen Removal System - Accessories



Article No.	Article Description	QTY
4907 842015	ROLL OUT CUT.WIRE 0.75 1500M	1
4907 848001	WIRE FEEDING CHISEL F.ROLL OUT	1
4907 848003	INTERIOR PROTECTION 4-PART	1
4907 848006	ROLL OUT DEVICE FOR CUT.WIRE	1
4907 848046	ROLL OUT SAUGTELLER 120MM	1
4907 848050	ROLL OUT SAUGTELLER 150MM	1

ASK Removal Kit EASY CUT

- Windscreen removal system for bonded screens
- One-man operation
- User-friendly
- No disassembly of internal panel necessary
- Protection of painting areas
- Ideal for mobile use
- Drive 3/8"

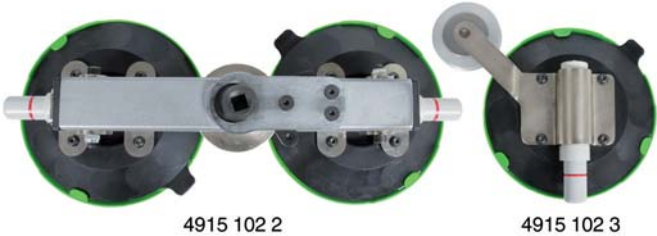
Article No.	Article Description	QTY
4915 102	ASK REMOVAL KIT EASY CUT II	1

Contents:

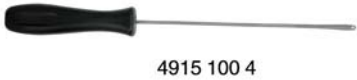
- 1x Art. No. 4915 100 2 EASY CUT bridge
- 1x Art. No. 4915 100 3 deflection roller
- 1x Art. No. 4915 100 4 stabbing awl
- 1x Art. No. 4915 100 5 set of T-handles
- 1x Art. No. 5400 2221 protective goggles
- Reel 22.5 m square wire



ASK Removal Kit EASY CUT Accessories



Article No.	Article Description	QTY
4915 102 2	ASK EASY CUT BRIDGE II COMPLET	1
4915 102 3	ASK EASY CUT DEFLECT.PULLEY II	1
4915 100 4	STABBING AWL FOR CUTTING WIRE	1
5400 2221	SAFETY GOGGLES FUN-CLEAR	1 z
4915 10	SQUARED CUTTING WIRE 50M	1



ASK cutting set Power Drive

- one part, very quick and effective one-man windscreen disassembly system for cordless screwdriver operation
- no separate deflection pulley required
- blue nylon line with approx. 210 kg traction
- for all glued car windscreens
- no paint damage caused by the wire
- disassembly easier when the gap is small between the windscreen and the body work
- it is possible to re-use the disassembled windscreen
- ergonomic: less stress on the user's shoulders and arms
- minimised risk of tear due to the use of nylon wire
- also for aluminium body work
- a 14.4 V cordless screwdriver is recommended

Article No.	Article Description	QTY
4915 200	ASK CUTTING SET POWER DRIVE	1

Contents:

- 2 x Art.-No. 4915 16: cutting string blue 0.70 mm each 65 m
- 1 x Art.-No. 4915 200 1 cutting tool
- 1 x Art.-No. 4915 8 1: ASK-wire piercing awl
- 1 x Art.-No. 4915 200 2: fixing hooks Power Drive
- 1 x Art.-No. 4761 1: universal knife with snap-off blade
- 1 x Art.-No. 4915 200 3: protective panel
- 1 x Art.-No. 4906 16: plastic wedge
- 1 x Art.-No. 4355 3: bit insert



Flexible Shaft for Power Drive

- Flexible drive shaft specially adapted for the Cutting Set Power Drive



Article No.	Article Description	QTY
4915 200 4	FLEXIBLE SHAFT FOR POWER DRIVE	1

ASK cutting set Power Drive accessories

Art. No. 4915 16:

- Diameter: 0.70 mm
- Tensile force: approx. 210 kg
- Oval shape, line positioned automatically on the narrow side

Art. No. 4915 17:

- Diameter: 0.65 mm
- Tensile force approx. 170 kg, round shape with new weave
- For vehicles with extremely narrow gap dimensions. For example, VW Golf 7, Touran, Caddy

Article No.	Article Description	QTY
4915 200 1	CUTTING TOOL POWER DRIVE	1
4915 8 1	ASK-WIRE PIERC.AWL KOMBI-T	1
4915 200 2	ATTACHMENT HOOKS POWER DRIVE	1
4761 1	UNIVERSAL KNIFE WITH CUTTER 1	1
4915 200 3	PROTECTIVE PANEL POWER DRIVE	1
4906 16	MOUNTING WEDGE 5* 200X25MM	1
4355 3	E6.3-1/4 BIT MAGNET HOLDER50MM	1 z
4915 16	RO(65M)ASK PA CUTT.LINE BLUE	1
4915 17	RO(65M)ASK PA CUTT.LINE ORANGE	1



ASK Aramid Cutting Wire (25 m) **FÖRCH*******

- The problem solver for low-lying and tight-fitting windscreens and aluminium bodies
- No paint damages and no corrosion
- Can be used with many common cutting tools
- Reusable depending on the condition
- Very high tensile strength (1800 N/mm²)
- Extremely heat-resistant (370°C)
- No sharp edges for secure work
- OEM (original equipment manufacturer) quality



Technical Data

Parameter	Dimension	Lower limit value	Upper limit value
Max. tensile strength, wire	N/mm ²	/	1800
Force horizontal elongation, %		4	5
wire	%	0.5	1.5
Twists with 300N, wire	g/100 m	107.5	111.5
Longitudinal weight	T/m	190	210
Twists, forward ply	T/m	160	180
Twists, outer ply	mm	1.15	1.35
Diameter of wire			

Article No.	Article Description	QTY
4915 9	RO(25M)ASK ARAMID CUTT.WIRE 5*	1

Windscreen Fixing Kit

- For transporting and fixing windscreens
- Lifting capacity per windscreen support: 30 kg
- Suction disc: 120 mm



Article No.	Article Description	QTY
4915 20	WINDSCREEN FIXING KIT IN CASE	1

Contents:

- 2x Art. No. 4915 21 Double-suction lifters 45 kg
- 1x Art. No. 4980 500 Lashing strap, 1-part, 400/800 kg, 25 mm, 4 m
- 1x Art. No. 9027 1 Plastic case

Windscreen Fixing Kit - Accessories

Article No.	Article Description	QTY
4915 21	DOUBLE-SUCTION LIFTER 30KG	1
4980 500	STRAP 1-PART 400/800KG 25MM 4M	1



4915 21



4980 500

Windscreen Support

- Adjustable height

Art. No. 5437 10:

- 4 suction pads
- Loading capacity up to 80 kg
- Size HxWxD: 90 x 85 x 115 cm

Art. No. 5437 11:

- 2 foamed material coatings
- Continuous padding that is ideal for smaller windows (side windows)
- Loading capacity up to 120 kg
- Size HxWxD: 108 x 90 x 110 cm

Article No.	Article Description	QTY
5437 10	WINDSCREEN SUPPORT STANDARD	1
5437 10 1	RUB.PADS F.WINDSC.SUPP.STANDA.	1
5437 11	WINDSCREEN SUPPORT TRUCK/BUS	1



Malleable-Iron Screw Clamp, Double Slip-Prevention

- Ergonomically formed wooden handle
- Movable pressure plate
- Galvanised, both-sided grooved profile track
- Anti-wearing, corrosion-resistant and secure clamping
- Double slip-prevention
- Clamping force 6000 N
- From article no. 4694 500 the screw clamps are being delivered without plastic protective caps

Article No.	Article Description	QTY
4694 160	M-I SCREW CLAMP DSP 160X 80	1
4694 200	M-I SCREW CLAMP DSP 200X100	1
4694 250	M-I SCREW CLAMP DSP 250X120	1
4694 300	M-I SCREW CLAMP DSP 300X140	1
4694 400	M-I SCREW CLAMP DSP 400X175	1
4694 500	M-I SCREW CLAMP DSP 500X120	1
4694 600	M-I SCREW CLAMP DSP 600X120	1
4694 800	M-I SCREW CLAMP DSP 800X120	1
4694 1000	M-I SCREW CLAMP DSP 1000X120	1
4694 1250	M-I SCREW CLAMP DSP 1250X120	1
4694 1500	M-I SCREW CLAMP DSP 1500X120	1
4694 2000	M-I SCREW CLAMP DSP 2000X120	1

(Spread x throat depth mm)

Technical Data

Art. No.	Steel rail HxW mm
4694 160	25 x 6
4694 200	27 x 7
4694 250	29 x 9
4694 300	32 x 10
4694 400	32 x 10
4694 500	35 x 11
4694 600	35 x 11
4694 800	35 x 11
4694 1000	35 x 11
4694 1250	35 x 11
4694 1500	35 x 11
4694 2000	35 x 11



Malleable-Iron Screw Clamp

- Ergonomically formed wooden handle
- Movable pressure plate
- Galvanised, both-sided grooved profile track
- Plastic protective caps prevent drag marks at the tool
- Clamping arms made of high-quality, black galvanised GTW 40 malleable-iron
- Clamping force 5500 N
- From article no. 4691 500 the screw clamps are being delivered without plastic protective caps

Article No.	Article Description	QTY
4691 100	M-I SCREW CLAMP 100X 50	1
4691 120	M-I SCREW CLAMP 120X 60	1
4691 160	M-I SCREW CLAMP 160X 80	1
4691 200	M-I SCREW CLAMP 200X100	1
4691 250	M-I SCREW CLAMP 250X120	1
4691 300	M-I SCREW CLAMP 300X140	1
4691 300 120	M-I SCREW CLAMP 300X120	1
4691 400	M-I SCREW CLAMP 400X175	1
4691 400 120	M-I SCREW CLAMP 400X120	1
4691 500	M-I SCREW CLAMP 500X120	1
4691 600	M-I SCREW CLAMP 600X120	1
4691 800	M-I SCREW CLAMP 800X120	1
4691 1000	M-I SCREW CLAMP 1000X120	1
4691 1250	M-I SCREW CLAMP 1250X120	1
4691 1500	M-I SCREW CLAMP 1500X120	1

(Spread x throat depth mm)

Technical Data

Art. No.	Steel rail HxW mm
4691 100	15 x 5
4691 120	20 x 5
4691 160	25 x 6
4691 200	27 x 7
4691 250	29 x 9
4691 300	32 x 10
4691 300 120	29 x 9
4691 400	32 x 10
4691 400 120	29 x 9
4691 500	35 x 11
4691 600	35 x 11
4691 800	35 x 11
4691 1000	35 x 11
4691 1250	35 x 11
4691 1500	35 x 11



Deep Screw Clamps

- High-quality screw clamp with extended throat
- Ideal for deep clamping
- Clamping force 7000 N

Article No.	Article Description	QTY
4695 600 200	M-I DEEP SCREW CLAMP 600X200	1
4695 600 250	M-I DEEP SCREW CLAMP 600X250	1
4695 800 200	M-I DEEP SCREW CLAMP 800X200	1
4695 800 250	M-I DEEP SCREW CLAMP 800X250	1

(Spread x throat depth mm)

Technical Data

Art. No.	Steel rail HxW mm
4695 600 200	35 x 11
4695 600 250	40 x 11
4695 800 200	35 x 11
4695 800 250	40 x 11



All-Steel Screw Clamps

- Ergonomically formed wooden handle
- Fixed bow made of galvanised, high-annealed special steel
- Browned spindle
- Forged sliding bow in the die - produced of one piece, no welding seams and no predetermined breaking points
- Clamping force up to 5500 N

Article No.	Article Description	QTY
4692 120	ALL-STEEL SCREW CLAMP 120X60	1
4692 160	ALL-STEEL SCREW CLAMP 160X80	1
4692 200	ALL-STEEL SCREW CLAMP 200X100	1
4692 250	ALL-STEEL SCREW CLAMP 250X120	1
4692 300	ALL-STEEL SCREW CLAMP 300X140	1
4692 400	ALL-STEEL SCREW CLAMP 400X120	1
4692 500	ALL-STEEL SCREW CLAMP 500X120	1
4692 600	ALL-STEEL SCREW CLAMP 600X120	1
4692 800	ALL-STEEL SCREW CLAMP 800X120	1
4692 1000	ALL-STEEL SCREW CLAMP 1000X120	1

(Spread x throat depth mm)

Technical Data

Art.-No.	Steel rail H x W mm
4692 120	13,5 x 6,5
4692 160	16 x 7,5
4692 200	19,5 x 9,5
4692 250	22 x 10,5
4692 300	25 x 12
4692 400	25 x 12
4692 500	25 x 12
4692 600	28 x 11
4692 800	28 x 11
4692 1000	28 x 11



All-steel table clamps

- Especially forged fixed bracket for grooves 12 x 8 mm
- For secure fixing of guide rails of the makes Dewalt, Festool, Protool, Metabo, Makita, Hitachi, etc. and for clamping in profiles as well as on work tables
- Ergonomically shaped wooden handle / metal handle
- Clamping force up to 1,800 N / 2,400 N

Article No.	Article Description	QTY
4692 1 120	ALL-STEEL TABLE CLAMPS 120X60	1
4692 1 160	ALL-STEEL TABLE CLAMPS 160X60	1



4692 1 120



4692 1 160

Clamp trolley ZW 1

- Robust metal construction on rollers
- Holds up to 90 clamps
- Dimensions (H x W x D): 50 x 60 x 146 cm

Article No.	Article Description	QTY
4698 31	CLAMP TROLLEY ZW 1	1

Delivery includes:

- 1x clamp trolley ZW 1
- 4x Art.-No. 4692 200: All-steel clamp 200/100
- 4x Art.-No. 4692 250: All-steel clamp 250/120
- 6x Art.-No. 4694 200: Malleable cast iron clamp 200/100
- 6x Art.-No. 4694 250: Malleable cast iron clamp 250/120
- 4x Art.-No. 4694 300: Malleable cast iron clamp 300/140
- 4x Art.-No. 4694 400: Malleable cast iron clamp 400/175
- 2x Art.-No. 4694 600: Malleable cast iron screw clamp 600/120



(Picture similar to product. Placement please see delivery scope)

Clamp trolley ZW 2

- Extremely robust metal construction on rollers
- Holds up to 120 clamps, including long screw clamps
- Dimensions (H x W x D): 100 x 60 x 153 cm

Article No.	Article Description	QTY
4698 43	CLAMP TROLLEY ZW 2	1

Delivery includes:

- 1x clamp trolley ZW 2
- 4x Art.-No. 4692 200: All-steel clamp 200/100
- 4x Art.-No. 4692 250: All-steel clamp 250/120
- 8x Art.-No. 4694 200: Malleable cast iron clamp 200/100
- 8x Art.-No. 4694 250: Malleable cast iron clamp 250/120
- 4x Art.-No. 4694 300: Malleable cast iron clamp 300/140
- 4x Art.-No. 4694 400: Malleable cast iron clamp 400/175
- 4x Art.-No. 4694 600: Malleable cast iron screw clamp 600/120
- 2x Art.-No. 4694 1000: Malleable cast iron screw clamp 1000/120
- 2x Art.-No. 4694 1250: Malleable cast iron screw clamp 1250/120
- 2x Art.-No. 4694 1500: Malleable cast iron screw clamp 1500/120



(Picture similar to product. Placement please see delivery scope)

Screw Clamps C

- To be used for metal and steel construction
- Are used when for less throats and preferably the same spread values high clamping forces are needed
- Browned spindle, with toggle
- Quality steel, forged die, zinc-plated

Article No.	Article Description	QTY
4686 40	C-CLAMPS 40 X 40	1
4686 60	C-CLAMPS 60 X 55	1
4686 80	C-CLAMPS 80 X 65	1
4686 100	C-CLAMPS 100 X 75	1
4686 120	C-CLAMPS 120 X 85	1
4686 150	C-CLAMPS 150 X 95	1
4686 200	C-CLAMPS 200 X 105	1

(Spread x throat depth mm)

Technical Data

Art. No.	Spread mm
4686 40	40
4686 60	60
4686 80	80
4686 100	100
4686 120	120
4686 150	150
4686 200	200



All-Steel Mechanic's Clamp

- Clamping force up to 12000 N (1200 kp), torque only 40 Nm
- 20 % more clamping force per spindle rotation due to optimised rail profile
- Highest safety due to straight power transmission at the sliding arm
- Specially constructed pressure cap, easily adjustable, 35° pivotable, constant pressing force, wear-resistant

Article No.	Article Description	QTY
4688 250	ALL-STEEL MECH.SCR.CLA.250X120	1
4688 300	ALL-STEEL MECH.SCR.CLA.300X140	1
4688 500	ALL-STEEL MECH.SCR.CLA.500X120	1
4688 1000	ALL-STEEL MECH.SCR.CL.1000X140	1

(Spread x throat depth mm)

Technical Data

Art.-No.	Steel rail HxW mm
4688 250	34 x 13
4688 300	34 x 13
4688 500	34 x 13
4688 1000	34 x 13



Vario Clamping Attachment

- Can be pivoted for interior and exterior angle of 60°
- Ideal for clamping and alignment of round, oval and angled working pieces e.g. pipes, railings and profiles
- Delivery in pairs
- Clamping surface width: 45 mm
- Delivery without screw clamp

Article No.	Article Description	QTY
4697 45	(PAIR)VARIO-CLAMP.ATTACH.45MM	1



Bodyclamps and surface clamps

- Clamping force up to 7000 N
- Infinitely variable and fixable top section for optimum placement of the workpiece
- Very large parallel clamping surfaces
- With 3 caps for the protection of sensitive surfaces
- Can be reversed for spreading without the aid of tools
- High-grade 2-component plastic handle
- The extremely large clamping surfaces of impact-proof and break-proof polyamide run exactly parallel
- For clamping various forms – in all areas of the rail and without allowance amounts

Article No.	Article Description	QTY
4698 600	BODY CLAMP 600MM	1
4698 1000	BODY CLAMP 1000MM	1

Technical Data

Art.-No.	Steel rail H x B mm
4698 600	29 x 9
4698 1000	29 x 9



Swivelling adapter for body clamps

- Adapter with swivelling clamping jaws from -15° to +15° swivelling range
- Clamping on inclined and parallel surfaces

Article No.	Article Description	QTY
4698 15 15	(PAIR)SWIV.ADAPT.F.BODY CLAMPS	1



Frame press set for body clamps 30 - 250 cm

- Variable frame press (from 30 cm to 250 cm) with four 90° angles
- Clamping pressure separately adjustable with 2 inserted clamps per corner
- Low weight / easy assembly

Article No.	Article Description	QTY
4698 30 250	FRAME PRESS SET 30-250 CM	1



Universal Band Tensioner

- Housing and clamping edges made of glass fibre reinforced polyamide
- Special tension band made of polyester with high tensile strength (5000 N)
- Vario-edges with pivotable pressure plates
- Closure for simple opening and closing of the band
- Winder for prestressing and rolling up can be mounted at both sides
- Integrated reel mechanics
- Adjustable clamping force due to integrated spindle with trapezoidal thread and ergonomic handle
- Angle range from 60° to 180°
- Tension circumference 7 m

Article No.	Article Description	QTY
4698 60 180	UNIVERSAL BAND TENSIONER	1

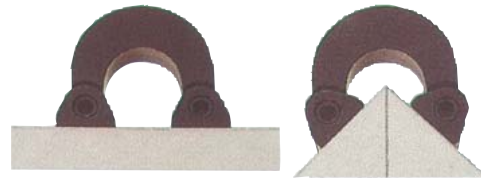
Included in delivery:

- 4x Vario-edges



Universal Band Tensioner - Accessories

Article No.	Article Description	QTY
4698 60 180 1	VARIO-EDGE	1



Door Case Tensioner

- Fixes and supports the door case during foaming of the wall joint protectively and precisely
- Big clamping surface with felt protection to protect the door case
- Square pipe with mm-scale for precise workings
- For wall strength from 6 to 30 cm
- Spread: 545 - 1010 mm

Article No.	Article Description	QTY
4698 1	DOOR CASE TENSIONER	1
4698 6	DOOR CASE TENSION.CARR.SET(6P)	1



Door Case Straightening Clamp

- For quick, precise adjustment and fixing of door cases
- Ergonomically formed handle
- Displacement path: 35 mm
- Throat depth: 70 mm

Article No.	Article Description	QTY
4698 8	DOOR CASE STRAIGHT.CLAMP 35X70	2



Door Case Mounting Strut

- Fixes and support the door case during foaming of the wall joint protectively and precisely
- Precise working
- Low weight
- Spread from 560 to 1010 mm

Article No.	Article Description	QTY
4698 560 1010	DOOR CASE MOUNTING STRUT	6
4698P 560 1010	PK(6)DOOR CASE MOUNTING STRUT	1



Quick Lever Clamping

- Up to 5 times faster than commercially available clamps
- Vibration-resistant
- High clamping force
- Anti-slide release lever
- Clamping force up to 8000 N

Article No.	Article Description	QTY
4689 120	QUICK LEVER CLAMPING 120X60	1
4689 160	QUICK LEVER CLAMPING 160X80	1
4689 200	QUICK LEVER CLAMPING 200X100	1
4689 250	QUICK LEVER CLAMPING 250X120	1
4689 300	QUICK LEVER CLAMPING 300X140	1
4689 400	QUICK LEVER CLAMPING 400X120	1
4689 500	QUICK LEVER CLAMPING 500X120	1
4689 600	QUICK LEVER CLAMPING 600X120	1
4689 800	QUICK LEVER CLAMPING 800X120	1

(Spread x throat depth mm)

Technical Data

Art.-No.	Steel Rail LxW mm
4689 120	13.5 x 6.5
4689 160	16 x 7.5
4689 200	19.5 x 9.9
4689 250	22 x 10.5
4689 300	25 x 12
4689 400	25 x 12
4689 500	25 x 12
4689 600	25 x 12
4689 800	27 x 13



KliKlamp quick-release clamp

- Ideal for installation or using several clamps at the same time
- Weight: from a feather-light 260 g Tough, fibreglass-reinforced plastics
- Fixed and sliding bracket made from lightweight magnesium
- Multi-level, anti-vibration VIBRAFIX locking mechanism
- Lightweight structure
- With clamping force of up to 1200 N

Article No.	Article Description	QTY
4689 120 80	QUICK LEVER KLIKLAMP 120X80	e 6
4689 160 80	QUICK LEVER KLIKLAMP 160X80	e 6
4689 200 80	QUICK LEVER KLIKLAMP 200X80	e 6
4689 250 80	QUICK LEVER KLIKLAMP 250X80	e 6
4689 300 80	QUICK LEVER KLIKLAMP 300X80	e 6



Mitre Tensioner

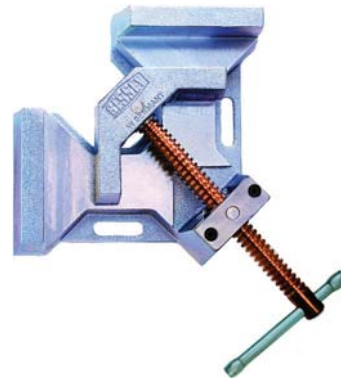
- Precise clamping of angle connections in mitre of 45° - 120°
- Centrally movable clamping arms made of high-quality steel
- With soft material jaws
- Anti-skidding 3-point-support
- Clamping width: 105 mm



Article No.	Article Description	QTY
4698 105	MITRE TENSIONER 105MM	1

Angle Tensioner

- Automatic adaption to different workpieces
- Robust jaws and base body made of high-quality cast
- Copper-plated spindle
- Precise 90° angle
- Spread: 2 x 90 mm



Article No.	Article Description	QTY
4698 12	METAL-ANGLE TENSIONER 2X90MM	1

Quick Grip

- One-hand operation which enables easy handling
- Safety interlock-mechanism keeps the product to be fixed tight
- Immediately adjustable clamping pressure
- Big soft cushions keep the fixed products secure
- Slight and break-resistant special plastic
- Clamping force up to 2000 N
- Adjustable without need of tools due to intelligent releasing mechanism at the upper part
- Profile width 19 x 6 mm
- Outreach: 80 mm



Article No.	Article Description	QTY
4690 150	QUICK CLAMP 150MM	1
4690 300	QUICK CLAMP 300MM	1
4690 450	QUICK CLAMP 450MM	1
4690 600	QUICK CLAMP 600MM	1
4690 900	QUICK CLAMP 900MM	1
4690 1 150	QUICK CLAMP LIGHT 150X60	1
4690 1 300	QUICK CLAMP LIGHT 300X60	1

(Spread)

Spring Clamp Vario

- Movable clamping arm
- Optimum handling, steplessly adjustable
- Highest stability
- Ergonomic handle



Article No.	Article Description	QTY
4671 1 55	SPRING CLAMP SPREAD VARIO 55MM	1
4671 1 100	SPRING CLAMP SPREAD VARIO 100MM	1

Spring Clamp XC

- Lightweight and handy
- Ergonomic handle
- Highest stability
- Soft, anti-slip grip insert



Article No.	Article Description	QTY
4671 2 34	SPRING CLAMP SPREAD XC 34MM	1
4671 2 44	SPRING CLAMP SPREAD XC 44MM	1
4671 2 60	SPRING CLAMP SPREAD XC 60MM	1
4671 2 75	SPRING CLAMP SPREAD XC 75MM	1

Spring Clamp

- Made of glass fibre reinforced nylon, lightweight, robust, corrosion-resistant
- Ergonomic, ant-slip handle
- Soft protective caps protect the workpiece
- Ideal for fixing mounting and adhesive parts
- With movable jaws



Article No.	Article Description	QTY
4671 25	SPRING CLAMP 25MM	1
4671 50	SPRING CLAMP 50MM	1
4671 75	SPRING CLAMP 75MM	1

Quick-release clamp, horizontal

- Lever is horizontal in the clamping position
- Variable adjustment of the clamping height with approximately constant clamping force – without manual alteration of the pressure screw position
- Adjustable clamping force up to 2500 N depending on the setting of the adjusting screw in the joint
- Sturdy coated steel plates for long service life
- Hole pattern of the base plate suitable for millimetres and inches
- High-grade, oil-resistant 2-component plastic handle



Article No.	Article Description	QTY
4698 20	QUICK-RELEASE CLAMP HORIZ.35MM	1
4698 50	QUICK-RELEASE CLAMP HORIZ.40MM	1
4698 70	QUICK-RELEASE CLAMP HORIZ.60MM	1

Technical Data	
Art.-Nor.	Clamping height
4698 20	35 mm
4698 50	40 mm
4698 70	60 mm

Push rod clamping device

- The movement of the lever is converted to an axial movement of the push rod
- Variable adjustment of the clamping width with nearly constant clamping force
- Without manual alteration of the pressure screw position
- Adjustable clamping force up to 2500 N depending on the setting of the adjusting screw in the joint
- Sturdy coated metal plates for long service life
- Hole pattern of the base plate suitable for millimetres and inches
- High-grade, oil-resistant 2-component plastic handle



Article No.	Article Description	QTY
4698 15	PUSH ROD CLAMP.DEVICE HORIZ.	1
4698 25	PUSH ROD CLAMP.DEVICE HORIZ.	1

Technical Data	
Art.-No.	Clamping depth
4698 15	25 mm
4698 25	35 mm

Quick-release clamp, vertical

- Lever is vertical in the clamping position
- Variable adjustment of the clamping height with nearly constant clamping force without manual alteration of the pressure screw position
- Adjustable clamping force up to 2500 N depending on the setting of the adjusting screw in the joint
- Sturdy coated steel plates for long service life
- Hole pattern of the base plate suitable for millimetres and inches
- High-grade, oil-resistant 2-component plastic handle

Article No.	Article Description	QTY
4698 1 20	QUICK-RELEASE CLAMP VERTICAL	1
4698 1 50	QUICK-RELEASE CLAMP VERTICAL	1

Technical Data	
Art.-No.	Clamping height
4698 1 20	20 mm
4698 1 50	50 mm



Suction lifter, 2-head plastic, 60 kg

- Lifting force of 60 kg/unit
- With two fixed heads
- Made of plastic
- Handle cover made of slip-proof rubber
- Suction disk: Ø 120 mm

Applications:

- Suction lifter for medium-weight loads
- Suitable for all materials with flat and gas-tight surfaces such as glass, metal, coated wood, marble/stone ware, metal sheets, etc.
- Not suitable for curved windscreens or rear windows



Article No.	Article Description	QTY
4790 60	SUCT.LIFTER 2-HEAD PLAST.60KG	1

Siphon 3-head aluminium 100 kg

- lifting capacity of 100 kg parallel
- TÜV tested and certified with GS symbol
- handle with plastic coating
- large handle heights offers best comfort
- suction disc: Ø 120 mm

application:

- Suction cups for heavy loads
- suitable for all materials with flat and airtight surfaces such as glass, plastic, metal, laminated wood, marble etc.



Article No.	Article Description	QTY
4790 100	SIPHON 3-HEAD ALUMINIUM 100KG	1

Siphon with hand pump 120 kg

- lifting capacity of 100 kg parallel
- TÜV tested and certified with GS symbol
- handle with non-slip coating
- large handle heights offers best comfort
- rounded handle shaft make it easier and more comfortable to pump
- drain negative pressure by pressing a button
- suction disc: ø 210 mm
- delivered in the case

application:

- Suction cups for heavy loads
- suitable for all materials with flat and airtight surfaces such as glass, plastic, metal, laminated wood, marble etc.



Article No.	Article Description	QTY
4790 120	SIPHON WITH HAND PUMP 120KG	1

Carry handles

The absolutely non-slip handles to save on energy, protect the back and provide safe transport

- the starting point can be chosen anywhere on the plate
- when carrying, both carriers go in the direction of movement
- the carrying arm remains relaxed and stretched out
- the other hand is free
- sturdy aluminium construction
- self-justifying clamping system
- load: 100 kg per handle
- in pairs in the box
- guaranteed non-slip in the entire clamping range

suitable for transporting:

- sheet metal, metal, glass, stone, wooden panels, insulation and plasterboard, OSB panels, solar modules and collectors, coated plates, separating walls, doors, windows, etc.

Article No.	Article Description	QTY
5417 0 80	PAIR CARRY HANDLESS 0-80MM	1
5417 40 120	PAIR CARRY HANDLESS 40-120MM	1



5417 0 80

5417 40 120

Brush range

Paintbrushes and brushes are generally equipped with Chinese bristles, synthetic fibres or mixtures (Chinese bristles/synthetic fibres)

Type of brush	Applications
Round brushes	Doors, furniture, rails, windows
Flat brushes	Doors, furniture, fences
Paint rollers	Facades, floors, fences, wooden terraces, large areas
Radiator brush	Difficult-to-reach locations, such as radiators, pipes, corners, etc.
Flat brushes, oblique brushes, mending brushes	Small areas, repair work, lines, paint edge limitations, border areas
Ceiling brushes, wallpapering brushes	Painting and filling work, walls, facades, wallpapering

Type of brush	Applications
Chinese bristles	• Synthetic resin paints and paints containing solvents
Mixed bristles of Chinese bristles and synthetic fibres	• Acrylic paints, latex paints, glazes, wood preservatives • Synthetic resin paints and paints containing solvents
Synthetic fibres	• Acrylic paints, latex paints, glazes, wood preservatives • water-based paint and colour systems

Round brushes												
Size	2	4	6	8	10	12	14	16	18	20	22	24
Ø	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm	55 mm	60 mm	65 mm	70 mm	75 mm

Round brushes												
in inches	1/4"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"
in mm (approx.)	10 mm	15 mm	20 mm	25 mm	30 mm	35 mm	50 mm	65 mm	75 mm	90 mm	100 mm	120 mm

Icons and associated suitability

Varnishes	Solvents	Water	Latex	Suitability	
				●	suitable
				●●	well suited
				●●●	very well suited

Flat brushes solvent-containing FORCH*****

• for solvent- and water based varnish and paint systems

- absolute top quality „Made in Germany“
- allround brush for perfect painting
- high-grade, conical synthetic fibres
- red PA plastic frame, fully bonded
- polished wooden handle
- painter info: 12. thickness
- first-class paintwork, no swelling
- precise cut
- smoothness of the brush
- stable in form and elastic
- very good colour retention and transfer

applications:

- suitable for all work using paint and varnish, particularly for larger surfaces e.g. doors, windows, furniture

Varnishes	Solvents	Water	Latex
••	•••	••	••



Article No.	Article Description	QTY
5415 5 25	FLAT BRUSH.CONT.SOLV.25MM 5*	e 12
5415 5 30	FLAT BRUSH.CONT.SOLV.30MM 5*	e 12
5415 5 40	FLAT BRUSH.CONT.SOLV.40MM 5*	e 12
5415 5 50	FLAT BRUSH.CONT.SOLV.50MM 5*	e 12
5415 5 60	FLAT BRUSH.CONT.SOLV.60MM 5*	e 12
5415 5 75	FLAT BRUSH.CONT.SOLV.75MM 5*	e 6

Technical Data		
size / breadth in mm	thickness in mm	bristle length visible in mm
25	21	45
30	23	45
40	26	51
50	26	58
60	26	64
75	26	64

Flat Brush solvent-containing

• for solvent-based varnish and paint systems

- Fine artisans quality
- Artificial and natural bristles
- Ergonomically formed beaver tail handle
- Information for painters: thickness 9
- Handy, comfortable, exact brushwork
- Extra strong and dense bristles
- Guaranteed even layer thickness

Art.-No. 5415 1 0:

- With wooden handle

applications:

- Suitable for all paint and varnish work, especially for larger surfaces e.g. doors, windows, furniture

Varnishes	Solvents	Water	Latex
•	••	•	•



Article No.	Article Description	QTY
5415 1 0	FLAT BRUSH CONT. SOLVENTS 20MM	e 12
5415 1 1	FLAT BRUSH CONT. SOLVENTS 30MM	e 12
5415 1 12 1	FLAT BRUSH CONT. SOLVENTS 40MM	e 12
5415 2 1	FLAT BRUSH CONT. SOLVENTS 50MM	e 12
5415 2 12 1	FLAT BRUSH CONT. SOLVENTS 60MM	e 12
5415 3 1	FLAT BRUSH CONT. SOLVENTS 80MM	e 6

Technical Data		
Size/ breadth in mm	Brush thickness in mm	Bristle length visible in mm
20	14	44
30	15	46
40	16	46
50	17	51
60	18	51
80	19	58

Flat brush solvent-containing **ECO**

- for solvent-based varnish and paint systems
- light Chinese bristles
- painter info: 6. thickness
- suitable for simple varnish, paint and cleaning work
- with pin hole in the shaft
- enables hanging drying / storage after use

applications:

- suitable for all paint and varnish work, in particular for larger surfaces e.g. doors, windows, furniture

Varnishes	Solvents	Water	Latex
			
•	•	•	•



Article No.	Article Description	QTY
5415 4 30	ECO FLAT BRUSH CONT.SOLV. 30MM	e 12
5415 4 40	ECO FLAT BRUSH CONT.SOLV. 40MM	e 12
5415 4 50	ECO FLAT BRUSH CONT.SOLV. 50MM	e 12
5415 4 60	ECO FLAT BRUSH CONT.SOLV. 60MM	e 12
5415 4 70	ECO FLAT BRUSH CONT.SOLV. 70MM	e 12
5415 4 80	ECO FLAT BRUSH CONT.SOLV. 80MM	e 6
5415 4 100	ECO FLAT BRUSH CONT.SOLV.100MM	e 6

Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
30	15	40
40	15	40
50	15	46
60	15	46
70	15	46
80	15	51
100	15	58

Flat brushes water-based **FÖRCH*******

- for water-based varnish and paint systems
- absolute top quality „Made in Germany“
- high quality conical synthetic fibre blend
- green PA plastic frame, fully bonded
- polished wooden handle
- painter info: 14. thickness
- very good paintwork
- precise cut
- smoothness of the brush
- very good colour retention and transfer

applications:

- suitable for all work using paint and varnish, particularly for larger surfaces e.g. doors, windows, furniture glazes

Varnishes	Solvents	Water	Latex
			
••	•	•••	•



Article No.	Article Description	QTY
5415 6 30	FLAT BRUSH WATER-BASED 30MM 5*	e 12
5415 6 40	FLAT BRUSH WATER-BASED 40MM 5*	e 12
5415 6 50	FLAT BRUSH WATER-BASED 50MM 5*	e 12
5415 6 60	FLAT BRUSH WATER-BASED 60MM 5*	e 12
5415 6 75	FLAT BRUSH WATER-BASED 75MM 5*	e 6

Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
30	23	45
40	26	51
50	26	58
60	26	64
70	26	64

Flat brush water-based

- for water-based varnish and paint systems

- quality „Made in Germany“
- high quality conical synthetic fibre blend
- stainless steel clamp
- polished wooden handle
- painter info: 9. thickness
- very good paintwork
- precise cut
- smoothness of the brush
- very good colour retention and transfer

applications:

- suitable for all work using paint and varnish, particularly for larger surfaces e.g. doors, windows, furniture glazes

Varnishes	Solvents	Water	Latex
			
••	•	•••	•



Article No.	Article Description	QTY
5415 7 30	FLAT BRUSH WATER-BASED 30MM	e 12
5415 7 50	FLAT BRUSH WATER-BASED 50MM	e 12
5415 7 70	FLAT BRUSH WATER-BASED 70MM	e 12

Technical Data		
size / breadth in mm	thickness in mm	bristle length visible in mm
30	15	44
50	17	54
70	19	60

Orel-Brush

- for water-based varnish and paint systems

- Good artisans quality
- Strong, brown poly-mix bristles
- Resistant against acids, alkalines and solvents of any kind
- Brass-plated clamp

applications:

- Ideal for varnishings, glazes and chemical protection paintings with anhydrous and water dilutable coating material

Varnishes	Solvents	Water	Latex
			
•	•	•	•



Article No.	Article Description	QTY
5415 1	OREL-BRUSH 1"	e 12
5415 1 12	OREL-BRUSH 1 1/2"	e 12
5415 2	OREL-BRUSH 2"	e 12

Technical Data		
Size/ breadth in mm	Brush thickness in mm	Bristles visible in mm
30	12	51
40	13	51
50	14	51

Ring brushes **FÖRCH*******

- for solvent-based varnish and paint systems
- absolute top quality „Made in Germany“
- strong, real black Chinese bristles of the highest quality
- very good colour pick-up and application
- precise cut
- very good paintwork
- two-fold white cord band
- nickel ring
- unvarnished polished wooden handle

applications:

- suitable for all work using paint and varnish, particularly for smaller surfaces e.g. doors, windows, furniture

Varnishes	Solvents	Water	Latex
			
••	•••	•	•••



Article No.	Article Description	QTY
5415 8 2	RING BRUSHES CONT.SOLV.20MM 5*	e 12
5415 8 4	RING BRUSHES CONT.SOLV.25MM 5*	e 12
5415 8 6	RING BRUSHES CONT.SOLV.30MM 5*	e 12
5415 8 8	RING BRUSHES CONT.SOLV.35MM 5*	e 12
5415 8 10	RING BRUSHES CONT.SOLV.40MM 5*	e 12
5415 8 12	RING BRUSHES CONT.SOLV.45MM 5*	e 6

Technical Data		
size in mm	Ø in mm	bristle length visible in mm
2	20	72
4	25	80
6	30	85
8	35	90
10	40	90
12	45	95

Ring brushes

- for solvent-based varnish and paint systems
- top quality „Made in Germany“
- strong, real black Chinese bristles of the highest quality
- very good colour pick-up and application
- precise cut
- very good paintwork
- red polyamide plastic frame
- two-fold detachable strip
- unvarnished polished wooden handle

applications:

- suitable for all work using paint and varnish, particularly for smaller surfaces e.g. doors, windows, furniture

Varnishes	Solvents	Water	Latex
			
••	•••	••	••



Article No.	Article Description	QTY
5415 9 4	RING BRUSH CONT.SOLV. 25MM	e 12
5415 9 6	RING BRUSH CONT.SOLV. 30MM	e 12
5415 9 8	RING BRUSH CONT.SOLV. 35MM	e 12
5415 9 10	RING BRUSH CONT.SOLV. 40MM	e 12
5415 9 12	RING BRUSH CONT.SOLV. 45MM	e 12

Technical Data		
size in mm	Ø in mm	bristle length visible in mm
4	25	75
6	30	80
8	35	85
10	40	90
12	45	95

Ring Brush

- for water-based varnish and paint systems
- Yellow linen sliver - additional bristle fixation
- Pure, black, closely stuck China bristles - assured smooth shift-thickness of the coating-film and optimum edge covering
- Bristles are additionally fixed with synthetic resin - avoids bristle loosening
- Ideal for in and outside paintworks, e.g. rust protection- and colour coatings, window coatings, wood constructions as well as any mending jobs
- Loop in the stem - allows hanging drying/storage after usage

Varnishes	Solvents	Water	Latex
••	••	•	••



Article No.	Article Description	QTY
5415 20	RING BRUSH 20MM	e 12
5415 25	RING BRUSH 25MM	e 12
5415 30	RING BRUSH 30MM	e 12
5415 35	RING BRUSH 35MM	e 12
5415 40	RING BRUSH 40MM	e 12

Technical Data		
Size in mm	Ø in mm	Bristle length visible in mm
2	20	62
4	25	65
6	30	75
8	35	80
10	40	80

All-purpose Ring Brush *ECO*

- for water-based varnish and paint systems
 - Pure bright bristles with plastic edging
 - Loop in stem - allows hanging drying/storage after usage
- applications:**
- Suitable for all work using paint and varnish or cleaning work

Varnishes	Solvents	Water	Latex
•	••	•	•



Article No.	Article Description	QTY
5415 20 1	ALL-PURPOSE RING BRUSH 20MM	e 12
5415 25 1	ALL-PURPOSE RING BRUSH 25MM	e 12
5415 30 1	ALL-PURPOSE RING BRUSH 30MM	e 12
5415 35 1	ALL-PURPOSE RING BRUSH 35MM	e 12
5415 40 1	ALL-PURPOSE RING BRUSH 40MM	e 12
5415 45 1	ALL-PURPOSE RING BRUSH 45MM	e 6

Technical Data		
Norm ring size in mm	Ø in mm	Bristle length visible in mm
2	20	38
4	25	38
6	30	38
8	35	44
10	40	44
12	45	51

Ring brushes **FÖRCH*******

• for water-based varnish and paint systems

- absolute top quality „Made in Germany“
- high quality conical synthetic fibre blend
- two-fold white thread strip
- polished wooden handle
- first-class paintwork
- precise cut
- smoothness of the brush
- very good colour retention and transfer

applications:

- suitable for all work using paint and varnish, particularly for smaller surfaces e.g. doors, windows, furniture glazes

Varnishes	Solvents	Water	Latex
			
••	•	•••	•



Article No.	Article Description	QTY
5415 10 6	RING BRUSH WATER-BASED 30MM 5*	e 12
5415 10 8	RING BRUSH WATER-BASED 35MM 5*	e 12
5415 10 10	RING BRUSH WATER-BASED 40MM 5*	e 12
5415 10 12	RING BRUSH WATER-BASED 45MM 5*	e 6

Technical Data		
size in mm	Ø in mm	bristle length visible in mm
6	30	85
8	35	96
10	40	105
12	45	105

Ring brushes

• for water-based varnish and paint systems

- top quality „Made in Germany“
- high quality conical synthetic fibre blend
- two-fold green PA plastic strip
- polished wooden handle
- very good paintwork
- precise cut
- smoothness of the brush
- very good colour retention and transfer

applications:

- suitable for all work using paint and varnish, particularly for smaller surfaces e.g. doors, windows, furniture glazes

Varnishes	Solvents	Water	Latex
			
••	•	•••	•



Article No.	Article Description	QTY
5415 11 4	RING BRUSH WATER-BASED 25MM	e 12
5415 11 6	RING BRUSH WATER-BASED 30MM	e 12
5415 11 8	RING BRUSH WATER-BASED 35MM	e 12
5415 11 10	RING BRUSH WATER-BASED 40MM	e 12
5415 11 12	RING BRUSH WATER-BASED 45MM	e 6

Technical Data		
size in mm	Ø in mm	bristle length visible in mm
4	25	80
6	30	85
8	35	90
10	40	90
12	45	95

Radiator brushes **FÖRCH*******

- for solvent-based varnish and paint systems

- absolute top quality „Made in Germany“
- best Chinese bristles
- tin clamp
- clear design / stainless steel clamp black design
- polished wooden handle
- very good paintwork
- precise cut
- smoothness of the brush
- very good colour pick-up and application

applications:

- suitable for hard to reach areas, particularly for radiators, corners, niches and walls

Varnishes	Solvents	Water	Latex
			
●	●●●	●	●●●



5418 4 25



5418 4 25 1

Article No.	Article Description	QTY
5418 4 25	RADIATOR BRUSH.F.SOL.BK25MM 5*	e 12
5418 4 35	RADIATOR BRUSH.F.SOL.BK35MM 5*	e 12
5418 4 50	RADIATOR BRUSH.F.SOL.BK50MM 5*	e 12
5418 4 60	RADIATOR BRUSH.F.SOL.BK60MM 5*	e 12
5418 4 70	RADIATOR BRUSH.F.SOL.BK70MM 5*	e 12
5418 4 25 1	RADIATOR BRUSH.F.SOL.LI25MM 5*	e 12
5418 4 35 1	RADIATOR BRUSH.F.SOL.LI35MM 5*	e 12
5418 4 50 1	RADIATOR BRUSH.F.SOL.LI50MM 5*	e 12
5418 4 60 1	RADIATOR BRUSH.F.SOL.LI60MM 5*	e 12
5418 4 70 1	RADIATOR BRUSH.F.SOL.LI70MM 5*	e 12

Technical Data				
size / breadth (inch)	breadth in mm	thick-ness in mm	bristle-length visible in mm	bristle-colour
1	25	9	43	black
1.5	35	9	49	black
2	50	9	56	black
2.5	60	9	62	black
3	70	9	62	black
1	25	9	43	light
1.5	35	9	49	light
2	50	9	56	light
2.5	60	9	62	light
3	70	9	62	light

Edge/Heater Brush

- for solvent-based varnish and paint systems

- Reinforced, wide bristle sheet - extra robust
- Best Chinese bristles
- Polished wooden handle
- Good paintwork
- Precise cut
- Smoothness of the brush
- Good colour pick-up and application

applications:

- Suitable for hard to reach areas, particularly radiators, corners, niche and walls

Varnishes	Solvents	Water	Latex
			
•	••	•	••



Article No.	Article Description	QTY
5418 1	EDGE-/HEATER BRUSH 1"	e 12
5418 1 12	EDGE-/HEATER BRUSH 1.1/2"	e 12
5418 2	EDGE-/HEATER BRUSH 2 "	e 12
5418 2 12	EDGE-/HEATER BRUSH 2.1/2"	e 12
5418 3	EDGE-/HEATER BRUSH 3	e 12
5418 1 1	EDGE-/HEATER BRUSH WHITE 1"	e 12
5418 1 1 12	EDGE-/HEAT.BRUSH WHITE 1 1/2"	e 12
5418 1 2	EDGE-/HEAT.BRUSH WHITE 2"	e 12
5418 1 3	EDGE-/HEAT.BRUSH WHITE 3"	e 12

Technical Data

Size / width (inch)	Width in mm	thick-ness in mm	Bristle length visible in mm	Bristle colour
1	25	9	43	black
1,5	35	9	49	black
2	50	9	49	black
2,5	60	9	56	black
3	70	9	56	black
1	25	9	39	light
1,5	35	9	39	light
2	50	9	46	light
3	70	9	52	light

Eco bitumen brushes **ECO**

- for solvent-based varnish and paint systems and bitumen
- tin clamp
- grey Chinese bristles
- polished wooden handle

applications

- application of bitumen, especially for roofers
- working with cement slurry in civil engineering and building construction
- application of plaster base, primer and various fire barriers by plasterers and drywall builders
- spreading of plaster by tilers

Article No.	Article Description			QTY
5418 5 50	BITUMEN BRUSH	50MM	ECO	e 12
5418 5 60	BITUMEN BRUSH	60MM	ECO	e 12
5418 5 70	BITUMEN BRUSH	70MM	ECO	e 12

Varnishes	Solvents	Water	Latex
•	•	•	•



Technical Data

size / breadth (inch)	breadth in mm
2	50
2.5	60
3	70

Radiator brushes

- for water-based varnish and paint systems
- stainless steel clamp
- high quality synthetic fibre blend
- polished wooden handle
- good paint work
- precise cut
- smoothness of the brush
- good colour pick-up and application

applications:

- suitable for hard to reach places, particularly radiators, corners, niches and walls

Article No.	Article Description			QTY
5418 6 35	RADIATOR BRUSH WATER-B.	35MM		e 12
5418 6 50	RADIATOR BRUSH WATER-B.	50MM		e 12
5418 6 60	RADIATOR BRUSH WATER-B.	60MM		e 12

Varnishes	Solvents	Water	Latex
••	•	•••	•



Technical Data

size / breadth (inch)	breadth in mm	bristle length visible in mm
1.5	35	49
2	50	54
2.5	60	58

Curved flat brushes FORCH*****

- for solvent-resistant varnish and paint systems
- absolute top quality „Made in Germany“
- Tin clamps
- strong, pure black Chinese bristles of the highest quality
- hardly any swelling in the water
- best colour pick-up and application
- Smoothness of the brush
- precise cut
- first-class paint work
- unvarnished wooden handle

applications:

- particularly suitable for window and door joints as well as hard to reach places

Varnishes	Solvents	Water	Latex
•	•••	••	••



Article No.	Article Description	QTY
5418 7 10	CURVED FLAT BRUSH 10MM 5*	e 12
5418 7 15	CURVED FLAT BRUSH 15MM 5*	e 12
5418 7 20	CURVED FLAT BRUSH 20MM 5*	e 12
5418 7 25	CURVED FLAT BRUSH 25MM 5*	e 12
5418 7 30	CURVED FLAT BRUSH 30MM 5*	e 12

Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
10	8	28
15	8	37
20	8	37
25	8	40
30	8	44

Flat Brush Containig Solvents Curved

- For solvent containing paint and varnish systems
- Pure black China bristles
- Hardly swelling in water
- very good colour pick-up and application
- smoothness of the brush
- precise cut
- very good paintwork
- unpainted wooden handle

applications:

- Especially suitable for window and door folds as well as hard to reach places

Varnishes	Solvents	Water	Latex
•	••	•	•



Article No.	Article Description	QTY
5418 15	FLAT BRUSH 15 MM	e 12
5418 20	FLAT BRUSH 20 MM	e 12
5418 25	FLAT BRUSH 25 MM	e 12

Technical Data

size / breadth in mm
15
20
25

Straight flat brush FÖRCH*****

- for solvent-resistant varnish and paint systems
- absolute top quality „Made in Germany“
- Tin clamps
- strong, pure black Chinese bristles of the highest quality
- hardly any swelling in the water
- best colour pick-up and application
- smoothness of the brush
- precise cut
- first-class paint work
- unvarnished wooden handle

applications:

- particularly suitable for window and door joints as well as hard to reach places

Varnishes	Solvents	Water	Latex
			
•	•••	••	••



Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
10	8	28
15	8	37
20	8	37
25	8	40
30	8	44

Article No.	Article Description	QTY
5418 8 10	STRAIGHT FLAT BRUSH 10MM 5*	e 12
5418 8 15	STRAIGHT FLAT BRUSH 15MM 5*	e 12
5418 8 20	STRAIGHT FLAT BRUSH 20MM 5*	e 12
5418 8 25	STRAIGHT FLAT BRUSH 25MM 5*	e 12
5418 8 30	STRAIGHT FLAT BRUSH 30MM 5*	e 12

Curved flat brush

- for water-based varnish and paint systems
- absolute top quality „Made in Germany“
- high quality conical synthetic fibre blend
- stainless clamp
- good colour pick-up and application
- smoothness of the brush
- precise cut
- good paintwork
- unvarnished wooden handle

applications:

- particularly suitable for window and door joints as well as hard to reach places

Varnishes	Solvents	Water	Latex
			
••	••	•••	•



Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
15	8	38
20	8	40
25	8	45

Article No.	Article Description	QTY
5418 9 15	FLAT BRUSH WATER-BASED 15MM	e 12
5418 9 20	FLAT BRUSH WATER-BASED 20MM	e 12
5418 9 25	FLAT BRUSH WATER-BASED 25MM	e 12

Flat Brush Containing Solvents **FÖRCH*******

- for solvent-resistant varnish and paint systems
- absolute top quality „Made in Germany“
- red polyamide plastic frame
- strong, pure, black Chinese bristles of highest quality
- hardly swells in water
- best colour-pick up and application
- smoothness of the brush
- precise cut
- first-class paintwork
- unvarnished wooden handle

applications:

- suitable for paint and varnish work of all types, in particular for very big surfaces e.g.. façades, flooring, fences, wooden terraces

Varnishes	Solvents	Water	Latex
••	•••	••	••



Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
100	30	76

Article No.	Article Description	QTY
5412 2 100	FLAT BRUSH CONT.SOLV. 100MM 5*	1

Flat Brush Containing Solvents

- for solvent-based varnish and paint systems
- tin clamp
- pure light Chinese bristles
- hardly swells up in water
- good colour pick-up and application
- smoothness of the brush
- precise cut
- good paintwork
- unvarnished wooden handle

applications:

- suitable for all types of paint and varnish work, particularly for very big surfaces e.g. façades, flooring, fences, wooden terraces

Varnishes	Solvents	Water	Latex
••	••	•	••



Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
70	30	60
100	30	60
120	30	65
140	40	65

Article No.	Article Description	QTY
5412 3 70	FLAT BRUSH CONT. SOLV. 70MM	1
5412 3 100	FLAT BRUSH CONT. SOLV. 100MM	1
5412 3 120	FLAT BRUSH CONT. SOLV. 120MM	1
5412 3 140	FLAT BRUSH CONT. SOLV. 140MM	1

Surface Brush with Plastic Backing **ECO**

- for solvent-based varnish and paint systems

- Sheet clamp
- Light Chinese bristles
- Standard quality
- Plastic handle

applications:

- Suitable for simple painting and washing works

Varnishes	Solvents	Water	Latex
•	•	•	•



Article No.	Article Description	QTY
5412 70 30	SURFACE BRUSH 70X30MM	e 12
5412 100 30	SURFACE BRUSH 100X30MM	e 12
5412 120 30	SURFACE BRUSH 120X30MM	e 12
5412 140 40	SURFACE BRUSH 140X40MM	e 12

Technical Data		
Width in mm	Length in mm	Bristle length visible in mm
70	30	44
100	30	44
120	30	44
140	40	51

Flat Brushes Water-Based

- for water-based varnish and paint systems

- absolute top quality „Made in Germany“
- high quality conical synthetic fibre blend
- red PA plastic frame, fully bonded
- good colour pick-up and transfer
- smoothness of the brush
- precise cut
- first-class paintwork
- unvarnished wooden handle

applications:

- particularly suitable for all types of paint and varnish work, particularly for very big surfaces e.g. façades, flooring, fences, wooden terraces
- for glazes

Varnishes	Solvents	Water	Latex
••	•	•••	•



Article No.	Article Description	QTY
5412 4 100 1	FLAT BRUSH WATER-BASED 100MM	1

Technical Data		
size / breadth in mm	thickness in mm	bristle length visible in mm
100	30	66

Oval flat brush **FÖRCH**★★★★★

- for solvent-based varnish and paint systems
- absolute top quality „Made in Germany“
- strong, pure, light Chinese bristles of the highest quality
- best colour pick-up and application
- smoothness of the brush
- first-class paintwork
- unvarnished wooden handle with holder
- naturally polished wooden body

applications:

- suitable for all types of paint and varnish work, particularly for very big surfaces e.g. façades, flooring, fences, wooden terraces

Varnishes	Solvents	Water	Latex
			
●●	●●●	●	●●●



Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
135	65	70

Article No.	Article Description	QTY
5412 5 135	FLAT BRUSH OVAL SOLV.135MM 5*	1

Oval flat brush **FÖRCH**★★★★★

- for water-based varnish and paint systems
- absolute top quality „Made in Germany“
- very high quality synthetic fibre blend
- smoothness of the brush
- hardly swells up in water
- first-class paintwork
- unvarnished wooden handle with holder
- naturally polished wooden body

applications:

- particularly suitable for all types of paint and varnish work, particularly for very big surfaces e.g. façades, flooring, fences, wooden terraces

Varnishes	Solvents	Water	Latex
			
●●	●	●●●	●



Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
135	65	70

Article No.	Article Description	QTY
5412 5 135 1	OVAL FLAT BRUSH 135MM 5*	1

Façade brush FORCH*****

- for all colours of wall
- **Painter info: double strength**
- absolute top quality „Made in Germany“
- red polyamide plastic frame
- strong, pure black Chinese bristles of the highest quality
- hardly any swelling in the water
- best colour pick-up and application
- Smoothness of the brush
- precise cut
- first class paintwork
- unvarnished wooden handle

applications:

- suitable for all types of paint and varnish work, particularly for walls and façades

Article No.	Article Description	QTY
5418 10 75	FAÇADE BRUSH SOLV. 75MM 5*	e 6

Varnishes	Solvents	Water	Latex
			
●	●	●	●●●

Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
75	18	62

Façade brushes

- for all colours of wall
- **Painter info: double strength**
- top quality „Made in Germany“
- Tin clamps
- strong, pure black Chinese bristles of the highest quality
- hardly any swelling in the water
- best colour pick-up and application
- Smoothness of the brush
- precise cut
- first class paintwork
- unvarnished wooden handle

applications:

- suitable for all types of paint and varnish work, particularly for walls and façades

Varnishes	Solvents	Water	Latex
			
●	●	●	●●



Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
75	16	62

Article No.	Article Description	QTY
5418 10 75 1	FAÇADE BRUSH SOLV. 75MM	e 6

Façade brush FORCH*****

• for water-based varnish and paint systems

- absolute top quality „Made in Germany“
- high quality conical synthetic fibre blend
- green PA plastic frame, fully bonded
- very good colour retention and transfer
- smoothness of the brush

- precise cut
- first class paintwork
- unvarnished wooden handle

applications:

- suitable for all types of paint and varnish work, particularly for walls and façades

Varnishes	Solvents	Water	Latex
			
••	•	•••	•



Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
75	18	62

Article No.	Article Description	QTY
5418 11 75	FAÇADE BRUSH WATER-B 75MM 5*	e 6

Façade brushes

• for water-based varnish and paint systems

- top quality „Made in Germany“
- high quality synthetic fibre blend
- double strength
- stainless steel clamp
- good colour pick-up and application
- smoothness of the brush
- precise cut
- very good paintwork
- unvarnished wooden handle

applications:

- suitable for all types of painting, particularly for walls and façades

Varnishes	Solvents	Water	Latex
			
••	•	•••	•



Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
75	16	66

Article No.	Article Description	QTY
5418 11 75 1	FAÇADE BRUSH WATER-B 75MM	e 6

Ceiling brush **FÖRCH**★★★★★

• For wall paint

- Absolute top quality „Made in Germany“
- Pure black Chinese bristles
- Excellent dimensional stability and smoothness
- Barely any expansion in water
- First class paint absorption and transfer
- Aluminium body
- Unpainted wooden handle with holder

Areas of application:

- Suitable for high-quality paintwork on walls and facades

Varnishes	Solvents	Water	Latex
			
••	••	•	•••



Article No.	Article Description	QTY
5412 6 180	CEILING BRUSH 180X180MM 5*	1

Technical Data

Size/Width in mm	thickness in mm	Visible brush length in mm
180	80	90

Ceiling brushes

• for wall paints

- quality „Made in Germany“
- pure, light Chinese bristles
- very good stability of shape and smoothness
- hardly swells up in water
- very good colour pick-up and transfer
- plastic frame
- unvarnished wooden handle with holder

applications:

- suitable for high quality paintwork on walls and façades

Varnishes	Solvents	Water	Latex
			
••	•	••	•



Article No.	Article Description	QTY
5412 6 170	CEILING BRUSH 170X170MM	1

Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
170	70	80

Silverpren-Ceiling and Brick Work Brush

- for solvent-based colour systems and deep primer
- Black synthetic bristles
- Very good smoothness and form stability
- No swelling in water
- Good colour pick-up and transfer
- plastic frame
- Plastic handle with holder

applications:

- Suitable for paintwork on walls and façades
- For deep primer



Article No.	Article Description	QTY
5412 175 80	SILVERPREN-BRUSH 175X80	1

Technical Data

Size / breadth in mm	Depth in mm	Bristle length in mm
175	80	75

Fibre-Ceiling and Brick Work Brush

- For solvent-based colour systems and deep primer
- Light natural fibre bristles
- Very good form stability and smoothness
- Hardly swelling when in water
- Good colour pick-up and transfer
- Wood body
- Plastic handle with holder

applications:

- Suitable for paintwork on walls and façades
- For deep primer, limestone, cement and bitumen coatings



Article No.	Article Description	QTY
5412 170 70	FIBRE-BRICKWORKBRUSH 170X70	1

Technical Data

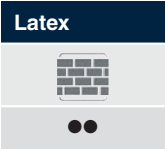
Size / breadth in mm	Depth in mm	Bristle length in mm
170	70	75

Ceiling and Brick Work Brush

- For deep primer coating and paste works
- Light synthetic bristles
- Good form stability and smoothness
- No swelling when in water
- Good colour pick-up and transfer
- Wood body
- Plastic handle with holder

applications:

- Suitable for simple paintwork on wall and façade
- For deep primer coatings, paste and cleaning works



Article No.	Article Description	QTY
5412 170 70 1	CEILING/BRICKWORK BRUSH 170X70	e 12

Technical Data		
Size / breadth in mm	Depth in mm	Bristle length visible in mm
170	70	70

Angled cut brush

- for solvent-based varnish and paint systems
 - top quality „Made in Germany“
 - Tin clamps
 - strong, pure black Chinese bristles of the highest quality
 - best colour pick up and application
 - Smoothness of the brush
 - precise cut
 - first class paintwork
 - unvarnished wooden handle
- applications:**
- suitable for cutting, defining and for hard to reach places

Varnishes	Solvents	Water	Latex
•	•••	•	••



Article No.	Article Description	QTY
5416 9 15	ANGLED CUT BRUSH 15MM	e 12
5416 9 20	ANGLED CUT BRUSH 20MM	e 12
5416 9 25	ANGLED CUT BRUSH 25MM	e 12
5416 9 30	ANGLED CUT BRUSH 30MM	e 12

Technical Data		
size / breadth in mm	thickness in mm	bristle length visible in mm
15	8	17
20	8	22
25	8	25
30	8	28

Repair Paint Brush

- For solvent- and water-based varnish and colour systems
 - Pointed
 - Tin clamp
 - Varnished wooden handle
 - Black natural bristles
 - Smoothness
 - Good paintwork
- applications:**
- Ideal for repair works of paint damages (e.g. car paint, railings)

Varnishes	Solvents	Water	Latex
•	•	•	•

Article No.	Article Description	QTY
5416 4 1	REPAIR PAINT BRUSH 4MM	e 12
5416 6	REPAIR PAINT BRUSH 6MM	e 12
5416 8	REPAIR PAINT BRUSH 8MM	e 12
5416 10	REPAIR PAINT BRUSH 10MM	e 12
5416 30	MENDING BRUSH-SET 3 PIECES	1

Technical Data
Ø Bristles in mm
4
6
8
10
6/8/10

Enamel Varnish Brush

- For solvent- and water-based varnish and colour systems
- Light Chinese Bristles
- Flat tin clamp
- Smoothness of brush
- Good paintwork
- Varnished wooden handle

applications:

- Ideal for small paint works

Varnishes	Solvents	Water	Latex
•	•	•	•



Article No.	Article Description	QTY
5416 0	ENAMEL VARNISH BRUSH 0	e 12
5416 1	ENAMEL VARNISH BRUSH 1	e 12
5416 2	ENAMEL VARNISH BRUSH 2	e 12
5416 3	ENAMEL VARNISH BRUSH 3	e 12
5416 4	ENAMEL VARNISH BRUSH 4	e 12
5416 5	ENAMEL VARNISH BRUSH 5	e 12

Technical Data

Norm size in mm	Breadth in mm
0	11
1	13
2	16
3	19
4	22
5	24

Pasting Ring Brush

- For warm pastes
- Light Tritex bristles
- Bristles pressed in sheet-metal capsule
- Additional bristle attachment due to wire fixing
- Heat-resistant
- Wooden handle

applications:

- For processing of warm paste

Varnishes	Solvents	Water	Latex
•	••	•	••



Article No.	Article Description	QTY
5414 12	PASTINGRINGBRUSH 12MM	e 12
5414 16	PASTINGRINGBRUSH 16MM	e 12
5414 20	PASTINGRINGBRUSH 20MM	e 12
5414 23	PASTINGRINGBRUSH 23MM	e 12
5414 26	PASTINGRINGBRUSH 26MM	e 12
5414 30	PASTINGRINGBRUSH 30MM	e 12

Technical Data

Size in mm	Ø in mm	Bristle length visible in mm
6	12	38
8	16	42
10	20	43
12	23	45
14	26	45
16	30	51

Pointed Brush

- For emulsion and latex paints
- Light natural bristles
- Hardwood handle
- Short ferrule
- Effective absorption of paint and good covering capacity

Application areas:

- Ideal for small painting tasks

Varnishes	Solvents	Water	Latex
			
•	•	•	••



Article No.	Article Description	QTY
5415 12 15	POINTED BRUSH 15MM	e 6
5415 12 18	POINTED BRUSH 18MM	e 6
5415 12 21	POINTED BRUSH 21MM	e 6
5415 12 25	POINTED BRUSH 25MM	e 6
5415 12 29	POINTED BRUSH 29MM	e 6

Technical Data	
Ø in mm	Visible bristle length in mm
15	48
18	54
21	60
25	66
29	72

Stain Brush

- For acrylic colours, staining and waxing
- Pure grey Chinese bristles
- Fully glued, red plastic frame
- Polished wooden handle

applications:

- For processing of acrylic colours, staining and waxing



Article No.	Article Description	QTY
5414 2	STAIN BRUSH 2"	e 12
5414 3	STAIN BRUSH 3"	e 12
5414 4	STAIN BRUSH 4"	e 6

Technical Data		
Size / breadth in mm	Thickness in mm	Brush length, visible in mm
50	17	51
75	18	58
100	20	64

Ring Stain Brush

- For staining
- White nylon bristles
- Fully bonded, red plastic frame
- Polished wooden handle

applications:

- For application of paint remover

Varnishes	Solvents	Water	Latex
			
•	••	••	••



Article No.	Article Description	QTY
5414 35	RING STAIN BRUSH 35MM	e 12

Technical Data		
Size in mm	Ø in mm	Brush length, visible in mm
8	35	42

Flat staining brush

- **for staining**

- white nylon bristles
- fully bonded, red plastic frame
- polished wooden handle

applications:

- for the application of staining products

Varnishes	Solvents	Water	Latex
•	••	••	••



Article No.	Article Description	QTY
5414 50	FLAT STAINING BRUSH 50MM	e 12
5414 75	FLAT STAINING BRUSH 75MM	e 12

Technical Data

size / breadth in mm	thickness in mm	bristle length visible in mm
50	17	59
75	18	59

Straight paintbrush, double insulation

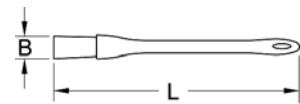
- Insulation in accordance with DIN EN 60900
- With eyelet for hanging
- Short design
- No electrical transmission
- Made from plastic



Article No.	Article Description	QTY
4997 5 25 180	STR.P.BRUSH D.INS.25X180MM	1

Technical Data

B mm	L mm
25,0	180.0



Curved paintbrush, double insulation

- Insulation in accordance with DIN EN 60900
- With eyelet for hanging
- Long and curved design
- No electrical transmission
- Made from plastic



Article No.	Article Description	QTY
4997 5 25 400	CUR.P.BRUSH D.INS.25X400MM	1
4997 5 37 400	CUR.P.BRUSH D.INS.37X400MM	1
4997 5 50 400	CUR.P.BRUSH D.INS.50X400MM	1

Technical Data

W mm	L mm
25.0	400.0
37.5	400.0
50.0	400.0



Fine foam roller, straight on both sides

- With fine foam quality (30 kg/m³)
- Suitable for painting work
- With 6 mm strap

applications:

- For watery and slightly solvent-based varnish



Article No.	Article Description	QTY
5416 100 3	REPLACE.RADIAT.MOLTOGERD 100MM	10

Superfine foam roller, straight on both sides

- Super-fine, top quality
- High-density foam (55 kg/m³)
- Particularly suitable for high-quality paint work
- For a 6 mm frame

Areas of application:

- For all synthetic resin paints, varnishes and water-soluble acrylic paints



Article No.	Article Description	QTY
5416 50	FOAM ROLL.B.SIDE STR. SF 50MM	e 20
5416 100 6	FOAM ROLL. B.SIDE STR SF 100MM	e 10

Superfine foam roller, with bowed sides

- Super-fine, top quality
- High-density foam (55 kg/m³)
- Particularly suitable for high-quality paint work

Areas of application:

- For a 6 mm frame with all synthetic resin paints, varnishes and water-soluble acrylic paints



Article No.	Article Description	QTY
5416 100 7	FOAM ROLL.B.SIDE RD SF 100MM	e 10

Superfine foam roller, rounded on both sides

- Super-fine, top quality
- High-density foam (55 kg/m³)
- Particularly suitable for high-quality paint work
- For a 6 mm frame

Areas of application:

- For all synthetic resin paints, varnishes and water-soluble acrylic paints



Article No.	Article Description	QTY
5416 100 8	FOAM ROLLER ROUND.BOTH S.100MM	e 10

Superfine foam roller, rounded surface

- Super-fine, top quality
- High-density foam (60 kg/m³)
- Particularly suitable for high-quality paint work
- For a 6 mm frame

Areas of application:

- For all synthetic resin paints, varnishes and water-soluble acrylic paints



Article No.	Article Description	QTY
5416 100 2	FOAM ROLLER ROUND.SURFACE100MM	10

Radiator Replacement Roller

- 4 mm pile
- Textile Cover
- Suitable for wall and ceiling paints

Areas of application:

- Solvent-based varnishes, sealings, epoxide and polyester resins



Article No.	Article Description	QTY
5416 100	REPLAC.RADIATOR.VELOUR 100MM	10

Felt paint roller

- 4 mm pile
- Felt covering
- Resistant to solvents
- For smooth surfaces
- Absolutely lint free
- For a 6 m frame

Areas of application

- For joinery, water and oil-based paints, acrylic paints, 2-component paints



Article No.	Article Description	QTY
5416 100 9	FELT PAINT ROLLER 100MM	e 10
5416 120	FELT PAINT ROLLER 120MM	e 10

Nylon polyamide paint roller

- 7 mm pile
- Nylon polyamide coating
- Resistant to solvents
- Completely lint free
- For a 6 mm frame

Areas of application

- For floor sealers, coatings, resin and oil-based paints, epoxide colours, artist's paints, 2-component paints



Article No.	Article Description	QTY
5416 100 10	PAINT R.NYLON POLYAMIDE 100MM	e 10
5416 150 1	PAINT R.NYLON POLYAMIDE 150MM	e 10

Micro-fibre paint roller

- 6 mm pile
- Microfibre quality
- Lint free VOC compliant
- High colour absorption capacity and optimal transfer
- Perfect results
- For a 6 mm frame

Areas of application:

- Low viscosity liquids, varnishes, wood preservatives and water-based paints



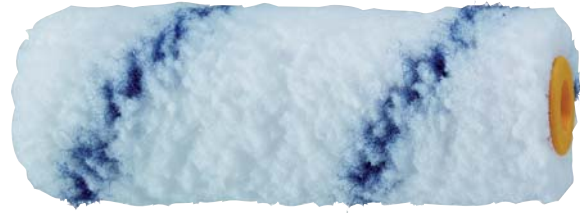
Article No.	Article Description	QTY
5416 120 1	PAINT ROLLER MICRO-FIBRE 120MM	e 10

Polyester radiator roller

- 12 mm pile
- solvent-resistant
- woven polyester
- lint-free
- for 6 mm handle

applications:

- for dispersions and water-based paints, latex paints and acrylics



Article No.	Article Description	QTY
5416 100 11	POLYESTER RAD. ROLLER 100MM	e 10
5416 150 2	POLYESTER RAD. ROLLER 150MM	e 10

Polyamide roller

- 12 mm pile
- polyamide
- solvent-resistant
- especially for smooth undercoats
- for 6 mm handles

applications:

- for dispersions, distemper and latex paints



Article No.	Article Description	QTY
5416 100 5	REPLACE.RADIATOR.NYLON 100MM	10
5416 150 3	PAINT ROLLER POLYAMIDE 150MM	e 10

Polyamide-twine radiator roller **FÖRCH**★★★★★

- 12 mm pile
- polyamide-twines
- optimum colour pick-up and application
- absolutely lint-free
- for 6 mm handle

applications:

- best results th wall and façade paints on all undercoats



Article No.	Article Description	QTY
5416 100 12	RAD.ROLLER POLYAM-TW. 5* 100MM	e 10
5416 150 4	RAD.ROLLER POLYAM-TW. 5* 150MM	e 10

Polyamide radiator roller **FÖRCH**★★★★★

- professional quality
- 12 mm pile
- high quality polyamide
- sturdy top quality
- solvent-resistant
- for 6 mm handle

applications:

- best results with wall and façade paint on all undercoats



Article No.	Article Description	QTY
5416 120 2	RAD.ROLLER POLYAMIDE 5* 120MM	e 10

Microfibre paint roller

- 6 mm pile
- microfibre quality
- lint-free
- VOC compliant
- high colour retention and optimum transfer
- perfect result
- for 8 mm handles

application:

- runny materials, glazes, wood preservative and water-based paints



Article No.	Article Description	QTY
5416 180 4	MICROFIBRE PAINT ROLLER 180MM	e 10

Paint roller nylon-polyamide

- 7 mm pile
- Nylon-polyamide cover
- solvent resistant
- absolutely lint free
- for 8 mm brackets

Fields of application:

- for floor sealing, coatings, resins and oil colours, Epoxy paints, artificial colours, 2-component colours



Article No.	Article Description	QTY
5416 180 5	PAINT ROLLER NYL.-POLYAM.180MM	e 10
5416 250 4	PAINT ROLLER NYL.-POLYAM.250MM	e 10

Short pile polyamide paint roller

- 12 mm pile
- polyamide
- solvent-resistant
- for 8 mm handles
- especially for smooth undercoats

applications:

- for dispersions, distemper and latex paints

Article No.	Article Description	QTY
5416 180 6	PAINT ROLLER POLYAM.SH.P.180MM	e 10
5416 250 5	PAINT ROLLER POLYAM.SH.P.250MM	e 10



Replacement Roller - Krolon

- For 8mm brackets
- White
- Thick, soft Krolon cover
- Can be used as brick work roller for latex and dispersion paints
- Pile Height: 20 mm
- Ø 80 mm

Article No.	Article Description	QTY
5416 180 1	PAINT ROLLER POLYES. ECO 180MM	1
5416 250 1	PAINT ROLLER POLYES. ECO 250MM	1



Replacement Roller Perlon

- For 8mm brackets
- Cover made from woven polyamide with lurex, twined
- Suitable for Binder, Dispersion and latex paints
- Pile Height: 18 mm
- Ø 75 mm



Article No.	Article Description	QTY
5416 180 2	REPLACEM.ROLLER PERLON 180MM	1
5416 250 2	REPLACEM.ROLLER PERLON 250MM	1

Polyamide ink roller **FÖRCH*******

- 18 mm pile
- high quality polyamide
- solvent-resistant
- sturdy top quality
- for 8 mm handle
- applications:

best results:

- with wall and façade paints on all undercoats

Article No.	Article Description	QTY
5416 180 7	COLOUR ROLLER POLY.180MM 5*	e 10
5416 250 6	COLOUR ROLLER POLY.250MM 5*	e 10



ECO polyacrylic roller

- 18 mm pile
- padded
- circular-knitted polyacrylic
- for 8 mm handles

applications:

- for dispersion, latex, silicon resin and silicate paints, water-soluble varnishes

Article No.	Article Description	QTY
5416 200	POLYACRYLIC ROLLER ECO 200MM	1
5416 270	POLYACRYL ROLLER ECO 270MM	1



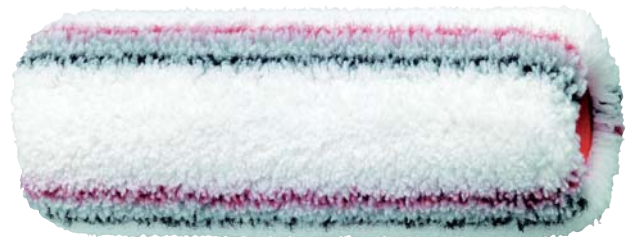
Polyester ink roller

- 18 mm pile
- 5 mm padded
- woven polyester
- for 8 mm handles
- for dispersions and water-soluble paints

applications:

- especially for rough undercoats

Article No.	Article Description	QTY
5416 200 1	INK ROLLER POLYESTER 200MM	e 10
5416 270 2	INK ROLLER POLYESTER 270MM	e 10



Polyamide - twine roller **FÖRCH*******

- 21 mm pile
- polyamide-twines
- long life
- optimum colour pick-up and application
- absolutely lint-free
- for 8 mm handle

applications:

- best results with wall and façade paints on all undercoats

Article No.	Article Description	QTY
5416 180 8	TWINE ROLLER POLYAMIDE5* 180MM	e 10
5416 250 7	TWINE ROLLER POLYAMIDE5* 250MM	e 10
5416 270 3	TWINE ROLLER POLYAMIDE5* 270MM	e 10



Trimming roller

- with 6 mm brackets
- Bracket length: 27 cm
- **woven polyamide cover**
- pile height: 12 mm
- colour: white

applications:

- for trimming edges quickly and easily | with dispersion and latex paints

Article No.	Article Description	QTY
5416 270 1	TRIMMING ROLLER 270MM	e 10



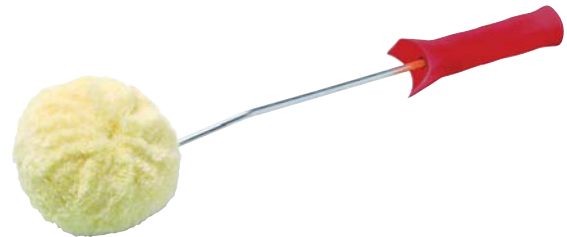
Corner roller

- with 6 mm brackets
- Bracket length: 42 cm
- **polyacrylic cover**

applications:

- to apply dispersion and latex paints

Article No.	Article Description	QTY
5416 420	CORNER ROLLER MICROF. 420MM	1
5416 420 1	REPL.CORNER ROLLER 420MM	1



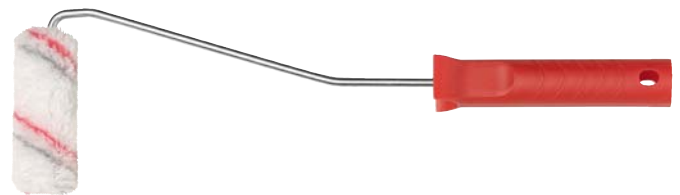
Radiator Roller

- 12mm pile
- Polyamide woven

Application:

- For dispersion, latex, silicone resin and silicate paints, water-soluble varnishes

Article No.	Article Description	QTY
5416 100 4	RADIATOR ROLLER PERLON 100MM	1



Super fine paint roller set

- 3 super fine lacquer rollers
- very dense foam (55 kg/m³)
- particularly suitable for high quality varnishing work

applications:

- for all synthetic resins, glazes and water-based acrylic paints

Article No.	Article Description	QTY
5416 100 13	PAINT ROLLER SET SUPERF.100MM	1 k



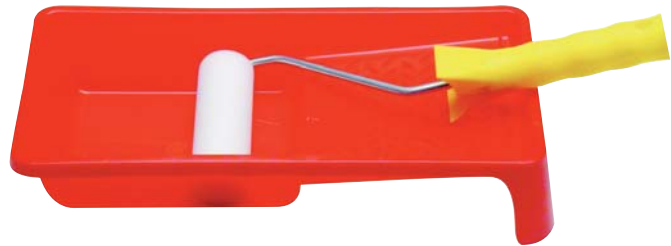
Super fine varnishing set

- paint roller: 110 mm
- super fine top quality
- highly dense foam 55 kg/m³)
- particularly suitable for high quality varnishing work

applications:

- for all synthetic resins, glazes and water-based acrylic paints

Article No.	Article Description	QTY
5416 100 14	VARNISHING SET SUPERFINE 100MM	e 10



Polyester roller set

- 2 texalon radiator brushes 100 mm
- woven polyester
- solvent-resistant
- lint-free
- with paint tray and bracket

applications:

- for dispersions, water-soluble paints, latex paints and acrylics

Article No.	Article Description	QTY
5416 100 15	PAINT ROLLER SET POLY. 100MM	1



Paint Roller

- Complete with 6mm bracket
- Textile Cover
- For wall and ceiling paints
- Pile Height: 18 mm
- Ø 70 mm

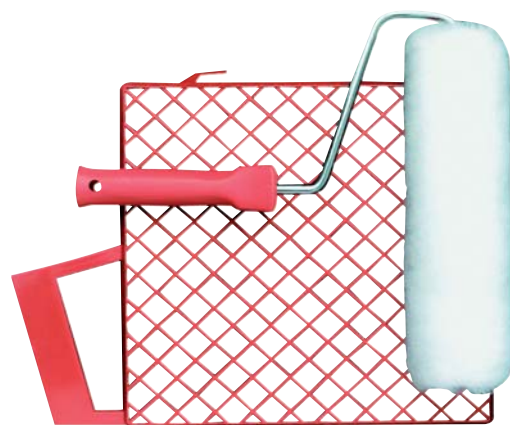
Article No.	Article Description	QTY
5416 180	PAINT ROLLER 180MM	1



Vestan paint roller set

- best Vestan quality
- 8 mm bracket and mesh
- for easy paintwork

Article No.	Article Description	QTY
5416 250 14	PAINT ROLLER SET VESTAN 250MM	e 30



Aluminium/Metal Extension Rod

- Continuously adjustable

Art.-No. 5416 1000:

- Aluminium
- light and robust for painters
- compatible with Art.-No. 5416 180 3, 5416 250 3, 5416 260 and 5416 400
- with locking function

Art.-No. 5416 1100:

- plastic coated
- compatible with all paint roller straps
- with plug-on function

Art.-No. 5416 1700:

- Aluminium
- light and robust for painters
- compatible with all paint roller straps
- with plug-on function



Article No.	Article Description	QTY
5416 1000	EXTENSION ROD ALU 1000X2000	1
5416 1100	EXTENSION ROD METAL 100X200	1
5416 1700	EXTENSION ROD ALU 1700X3000	e 10

Plastic paint tray

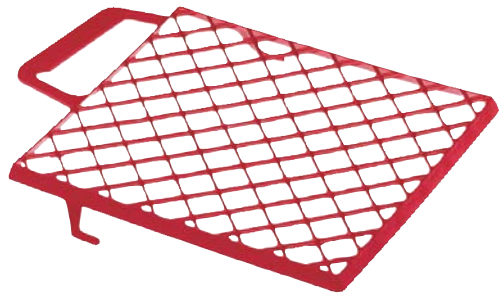
- made from break-proof and solvent-resistant plastic
- with measuring lines and spout

Article No.	Article Description	QTY
5416 150 270	PAINT TRAY PLASTIC 150X320X55MM	1
5416 260 290	PAINT TRAY PLAST. 260X320X60MM	1



Plastic Roller Grid

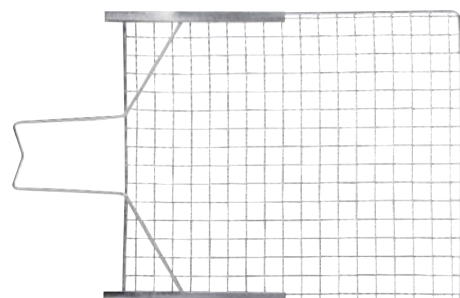
Article No.	Article Description	QTY
5416 220 250	PLASTIC ROLLER GRID 220X250MM	1
5416 270 290	PLASTIC ROLLER GRID 270X290MM	1



Metal grid

- galvanised metal

Article No.	Article Description	QTY
5416 260 300	METAL GRID 260X300 MM	e 10



Radiator Roller Bracket

- Ø 6 mm
- Ergonomically profi grip
- Galvanized

Art.-No. 5416 200 2:

- suitable for rolls up to 50 mm

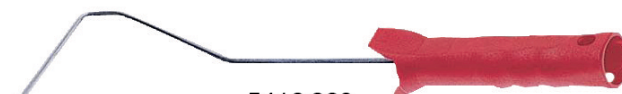
Art.-No. 5416 260 and 5416 400:

- suitable for rolls between 100 mm - 150 mm

Article No.	Article Description	QTY
5416 200 2	RAD.ROLLER BRACK.MINI ECO200MM	1
5416 260	RADIATOR ROLLER BRACKET 260MM	1
5416 400	RADIATOR ROLLER BRACKET 400MM	1



5416 200 2

5416 260
5416 400

Paint roller bracket 2K, 6 mm

- Ø6 mm
- ergonomic 2-component handle
- high gloss zinc-coated
- suitable for rolls between 100 mm - 150 mm

Article No.	Article Description	QTY
5416 270 4	PAINT ROLLER 2-C-GRIP 270 MM	e 10
5416 420 2	PAINT ROLLER 2-C-GRIP 420 MM	e 10



Roller Bracket

- Ø 8 mm
- Ergonomically profi grip
- Galvanized
- suitable for rolls between 180 mm - 270 mm

Article No.	Article Description	QTY
5416 180 3	ROLLER BRACKET 180MM	1
5416 250 3	ROLLER BRACKET 250MM	1



Paint roller bracket 2K, 8mm

- Ø8 mm
- ergonomic 2-component handle
- high gloss zinc-coated
- suitable for rolls between 180 mm - 270 mm

Article No.	Article Description	QTY
5416 180 9	PAINT ROLLER 2-C-GRIP 180 MM	e 10
5416 250 10	PAINT ROLLER 2-C-GRIP 250 MM	e 10



Joint-Filler Knife

- Special plastic
- High-flexible
- Acid resistant
- For rapid and clean smoothing of silicone and acrylic joints

Article No.	Article Description	QTY
5422 140 60	JOINT-FILLER KNIFE 8.5X40MM	1
5422 140 60 3	JOINT-FILLER SET 3-PIECES	1
5422 140 60 7	JOINT-FILLER SET 7-PIECES	1



Spatulas

- Rust-free quality (stainless steel spatula)
- Black, robust plastic handle (stainless steel spatula)
- Hand protection cap (spatula)
- Perfect for scraping and plaster cracks, and to remove old paint-works and wallpapers

Article No.	Article Description	QTY
5422 40	STAINLESS STEEL SPATULA 40MM	1 d
5422 60	STAINLESS STEEL SPATULA 60MM	1 d
5422 80	STAINLESS STEEL SPATULA 80MM	1 d
5422 100	STAINLESS STEEL SPATULA 100MM	1 d
5422 20 1	SPATULA 20MM	1 d
5422 40 1	SPATULA 40MM	1 d
5422 50 1	SPATULA 50MM	1 d
5422 60 1	SPATULA 60MM	1 d
5422 80 1	SPATULA 80MM	1 d
5422 100 1	SPATULA 100MM	1 d



Japan Filler Kit

- 4-part
- Tool made of high-quality, rust-free, elastic Sweden steel
- Perfect to abrade surfaces or filling compounds

Article No.	Article Description	QTY
5422 4	JAPAN FILLER KIT 4-PART	1

Contents:

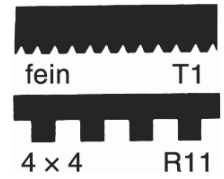
- 1x Japan filler 50, 80, 105 and 120 mm



Metal Toothed Spatula

Technical Data

Art.-No.	Type	Tooth form
5422 180 1	T1	Trapeziod fine
5422 180 11	R11	Rectangle 4x4 mm



Article No.	Article Description	QTY
5422 180 1	METAL TOOTHED SPATULA T1 180MM	1 z
5422 180 11	METAL TOOTH.SPATULA R11 180MM	1

Surface Spatula with Soft Handle

- Rust-free

Article No.	Article Description	QTY
5422 400	SURF.SPATULE SOFT HANDLE 400MM	1
5422 500	SURF.SPATULE SOFT HANDLE 500MM	1



Plaster Cup

- Black
- Natural rubber - flexible break-resistant

Article No.	Article Description	QTY
5422 10	PLASTER CUP ROUND	1
5422 11	PLASTER CUP FLAT	1



5422 10



5422 11

Plasterers' Pan

- Diameter 18 cm
- Zinc-plated
- Wooden handle

Article No.	Article Description	QTY
5422 18	PLASTERES PAN 18CM	1



Plastering spatula

- Blade made of standard steel, conically ground and polished
- Plastic-coated handle

Article No.	Article Description	QTY
5422 9	PLASTERING SPATULA 10MM	1
5422 15	PLASTERING SPATULA 15MM	1
5422 20	PLASTERING SPATULA 20MM	1
5422 25	PLASTERING SPATULA 25MM	1
5422 30	PLASTERING SPATULA 30MM	1



Float - Plastic

- Easy to use
- Light and comfortable grip
- No sticking of plaster
- No moving caused by humidity
- 15 - 20 mm strong

Article No.	Article Description	QTY
5422 140 280 7	FLOAT PLASTIC 140X280	1
5422 180 320 1	FLOAT PLASTIC 180X320	1
5422 220 420	FLOAT PLASTIC 220X420	1
5422 240 480	FLOAT PLASTIC 240X480	1



Float - Hood

- Multi-layered wooden plate with plastic handle
- Lime-resistant
- Low wear due to rubbing
- Approx. 12 - 15 mm strong

Article No.	Article Description	QTY
5422 140 280 8	FLOAT - HOOD 140X280	1
5422 180 320 2	FLOAT - HOOD 180X320	1
5422 200 360	FLOAT - HOOD 200X360	1



Float - Felt

- Completely with hardened felt coating
- 10 mm strong

Article No.	Article Description	QTY
5422 140 280 9	FLOAT - FELT 140X280	1



Float - Rubber Sponge

- Completely with rubber sponge coating
- 20 mm strong

Article No.	Article Description	QTY
5422 140 280 11	FLOAT - RUBBER SPONGE 140X280	1
5422 180 320	REPLACE.RUBBER SPONGE 180X320	1



Float - Cellular Rubber

- Completely with cellular rubber coating
- Black / green
- 10 mm strong

Article No.	Article Description	QTY
5422 140 280 12	FLOAT-CELLUL.RUB.BLACK 140X280	1
5422 140 280 13	REPL.CELLULAR RUB.BLACK140X280	1



Float - Latex Sponge

- Completely with latex coating
- 20 mm strong

Article No.	Article Description	QTY
5422 140 280 16	FLOAT - LATEX 140X280	1



Tile Wash Board

Art.-No. 5422 140 280 3:

- Completely with foamed material
- 40 mm strong

Art.-No. 5422 140 280 5:

- Completely with hydro-sponge coating
- 40 mm strong

Art.-No. 5422 160 110:

- Extremely absorbent
- 60.5 mm strong



5422 140 280 3



5422 140 280 5



5422 160 110

Article No.	Article Description	QTY
5422 140 280 3	TILE-WASHBOARD FOAM 140X280	1
5422 140 280 5	TILE-WASHBOARD HYDRO 140X280	1
5422 140 280 6	REPLACEMENT HYDRO 140X280	1
5422 160 110	HAND SPONGE HYDRO 160X110X60.5	1

Joint Rubber

- Suitable for grouting works
- With wooden back

Article No.	Article Description	QTY
5422 250	JOINT RUBBER 250MM	1



Rubber & Universal Contact Adhesive K142

- For long-term adhesion of rubber, rubber-metal connections, foam rubber, insulating material, PVC, textiles, paper, cardboard, wood, leather etc.
- Not suitable for polystyrene

Art.-No. 6400 4050:

- Tin with included brush

Article No.	Article Description	QTY
6400 4049	TB(90G)UNIVERSAL ADHESIVE K142	e 12
6400 4050	RUBB.&UNIV.CONT.ADH.K142 200G	e 6
6400 4055	UNIV.CONT.ADHESIVE K142 640G	1



Brush for Wall Covering

- Strong hair
- With front beard

Article No.	Article Description	QTY
5422 650 230	BRUSH F.WALL COVERING 60X230MM	1



Pressure Roller for Wall Coverings

- Flexible
- For pressing on heavy wallpapers or films
- Pressing on roll-Ø: 65 mm
- Ø clip: 8 mm

Article No.	Article Description	QTY
5422 180 12	PRESS.ROLL.FOR WALL COVER180MM	1



Pressure Roller

- One-armed
- Pressure roller-Ø: 40 mm
- Suitable for pressing on of window sills, heavy wallpapers or films
- Width: 50 mm

Article No.	Article Description	QTY
5422 70	PRESSURE ROLLER 50MM	1



Cutting Ruler / Wall Paper Tear Off

- Multipurpose device for cutting works during paperhanging
- For removing wallpaper
- For covering during paintworks
- Rustless steel rail with plastic handle



Article No.	Article Description	QTY
5422 450	CUTTING RULER 600MM	1

Working Scissors

- Polished blades
- Black handle, varnished

Article No.	Article Description	QTY
4760 2	WORKING SCISSOR 200MM	1 s
4760 2 1	WORKING SCISSOR 250MM	1



Universal Scissors

- For wallpapers, films, plastics etc.

Article No.	Article Description	QTY
4760 3 2	UNIVERSAL SCISSORS	1



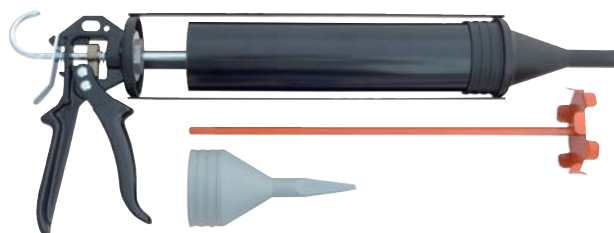
Mortar Cartridge

- Optimum processing of e.g. grout
- Exactly filled seams ensure maximum hold, firmness and stability

Article No.	Article Description
6010 1000	MORTAR CARTRIDGE FX-1000

Scope of delivery:

- 1× filling tube with a volume of approx. 1 liter, 2 nozzles, 1× mixer



Trowel - Plastic

- Made of plastic
- 3 mm strong sheet

Article No.	Article Description	QTY
5422 140 280 1	TROWEL PLASTIC 140X280MM	1



Trowel, stainless steel, wooden handle

- Blade made of stainless steel
- Quadruple welded
- with beechwood handle

Article No.	Article Description	QTY
5422 130 280	TROWEL METAL 130X280MM	1



Trowel, stainl. steel, 2-comp. soft-grip handle

- Blade made of stainless steel
- Quadruple welded
- Handle made of 2-component plastic

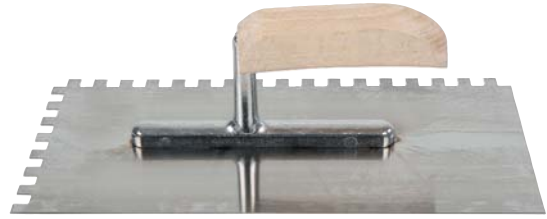
Article No.	Article Description	QTY
5422 130 280 1	TROWEL METAL SOFT 130X280MM	1



Trowel - Toothed

- Blank
- Toothed at both sides
- Dimension LxW: 130 x 280 mm

Article No.	Article Description	QTY
5422 130 280 3	TROWEL TOOTHED 130X280 4X4	1
5422 130 280 4	TROWEL TOOTHED 130X280 6X6	1
5422 130 280 5	TROWEL TOOTHED 130X280 8X8	1
5422 130 280 6	TROWEL TOOTHED 130X280 10X10	1
5422 130 280 7	TROWEL TOOTHED 130X280 12X12	1



Trowel, stainless steel, toothed

- Blade made of stainless steel
- Quadruple welded
- with beechwood handle
- Toothed on two sides

Article No.	Article Description	QTY
5422 130 8	TROWEL ST.STEEL 130X280 8X8	1
5422 130 10	TROWEL ST.STEEL 130X280 10X10	1



Trowel in st. steel, tooth. 2-comp. soft-grip handle

- Blade made of stainless steel
- Quadruple welded
- with 2-component plastic handle
- Toothed on two sides

Article No.	Article Description	QTY
5422 130 5 8	TROWEL ST.STEEL 2C-SOFT 8X8	1
5422 130 5 10	TROWEL ST.STEEL 2C-SOFT 10X10	1



Trowel for plastering – Berner

- Blade made of stainless steel
- with beechwood handle
- Art.-No. 5422 140 5 with 2-component plastic handle

Article No.	Article Description	QTY
5422 120 1	TROWEL FOR PLAST.BERNER 120MM	1
5422 140 2	TROWEL FOR PLAST.BERNER 140MM	1
5422 160 2	TROWEL FOR PLAST.BERNER 160MM	1
5422 140 5	TROWEL BERNER SOFT 140MM	1



Mason's trowel, swan-neck handle

- Blade made of stainless steel
- with beechwood handle
- Art.-No. 5422 160 5 and Art.-No. 5422 180 8 with 2-component plastic handle

Article No.	Article Description	QTY
5422 160 1	SWAN-NECK-SHAPED TROWEL 160MM	1
5422 180 6	SWAN-NECK-SHAPED TROWEL 180MM	1
5422 160 5	SWAN-NECK SHA.TROW.SOFT 160MM	1
5422 180 8	SWAN-NECK-SHA.TRO.SOFTGR.180MM	1



Mason's trowel, swan-neck handle, forged

- Blade and handle forged out of one piece
- Hardened blade
- Conically ground
- with beechwood handle

Article No.	Article Description	QTY
5422 160 7	TROWEL FORGED S-NECK 160MM	1
5422 180 7	TROWEL FORGED S-NECK 180MM	1
5422 200 7	TROWEL FORGED S-NECK 200MM	1



Mason's trowel, straight

- Blade made of stainless steel
- with beechwood handle

Article No.	Article Description	QTY
5422 160	TROWEL STRAIGHT 160MM	1
5422 180 5	TROWEL STRAIGHT 180MM	1



Trowel – Berliner

- Blade made of stainless steel
- with beechwood handle

Article No.	Article Description	QTY
5422 40 2	BERLINER TROWEL 40MM	1



Cat tongue trowel

- Blade made of stainless steel
- with beechwood handle

Article No.	Article Description	QTY
5422 140 3	CAT TONGUE TROWEL 140MM	1
5422 160 3	CAT TONGUE TROWEL 160MM	1



Trowel for outer corners

- Blade made of hardened stainless steel
- with beechwood handle

Article No.	Article Description	QTY
5422 80 4	TROWEL EXT.CORN.90/ 80X60X60MM	1



Trowel for inner corners

- Blade made of stainless steel
- with beechwood handle

Article No.	Article Description	QTY
5422 80 60	INNER CORN.TROWEL90/ 80X60X60	1



Joint Trowel - German

- Steel-version
- With beech wooden handle
- Conical, flexible ground

Article No.	Article Description	QTY
5422 6 1	GERMAN JOINT TROWEL 6MM	1
5422 8 1	GERMAN JOINT TROWEL 8MM	1
5422 10 1	GERMAN JOINT TROWEL 10MM	1
5422 12 1	GERMAN JOINT TROWEL 12MM	1
5422 14 1	GERMAN JOINT TROWEL 14MM	1



Plasterer's Spatula

- Rust-free
- With wooden handle

Article No.	Article Description	QTY
5422 40 3	PLASTERER'S SPATULA 40MM	1
5422 50 3	PLASTERER'S SPATULA 50MM	1
5422 60 3	PLASTERER'S SPATULA 60MM	1
5422 80 3	PLASTERER'S SPATULA 80MM	1
5422 100 3	PLASTERER'S SPATULA 100MM	1
5422 120 3	PLASTERER'S SPATULA 120MM	1
5422 60 2	PLAST.SPATULA SOFT-GRIP 60MM	1
5422 80 2	PLAST.SPATULA SOFT-GRIP 80MM	1



5422 40 3



5422 60 2

Italien trowel

- Blade made of stainless steel
- with beechwood handle

Article No.	Article Description	QTY
5422 200 1	ITALIEN TROWEL ST.STEEL 200MM	1



Bucket

- Made of high-quality, stable, weather-resistant and break-proof PE
- Colour: black

Article No.	Article Description	QTY
5422 10 12	BUCKET 12L	1
5422 10 20	BUCKET 20L	1



Mortar Box

- made of high-grade, stable, weather-resistant and break-proof PE
- Colour: black

Article No.	Article Description	QTY
5422 11 65	MORTAR BOX 65L	1
5422 11 90	MORTAR BOX 90L	1



Mortar Bucket

- Made of high-grade, stable, weather resistant and break-proof PE
- Colour: black

Article No.	Article Description	QTY
5422 12 40	MORTAR BUCKET 40L	1
5422 12 65	MORTAR BUCKET 65L	1
5422 12 90	MORTAR BUCKET 90L	1



Bucket, crane-liftable

- TÜV/GS-tested
- frost-resistant and break-proof
- extremely high carrying capacity
- sturdy metal lug handles



Technical Data					
Art.-No.	Volume	max. carrying capacity	Length	Width	Height
5422 10 12 1	12 l	25 kg	34 cm	34 cm	25 cm
5422 10 20 1	20 l	45 kg	39 cm	39 cm	28 cm

Article No.	Article Description	QTY
5422 10 12 1	BUCKET CRANE-LIFTABLE 12L	1
5422 10 20 1	BUCKET CRANE-LIFTABLE 20L	1



5422 10 12 1

5422 10 20 1

Mortar bucket, crane-liftable

- TÜV/GS-tested
- frost-resistant and break-proof
- extremely high carrying capacity
- sturdy metal lug handles



Technical Data					
Art.-No.	Volume	max. carrying capacity	Length	Width	Height
5422 12 45 1	45 l	90 kg	53 cm	53 cm	34 cm
5422 12 90 1	90 l	250 kg	66 cm	66 cm	36 cm

Article No.	Article Description	QTY
5422 12 45 1	MORTAR BUCKET CRANE-LIFT.45L	1
5422 12 90 1	MORTAR BUCKET CRANE-LIFT.90L	1



5422 12 45 1

5422 12 90 1

Mortar crate, crane-liftable

- TÜV/GS-tested
- flexible and break-proof material made of HDPE
- robust frame and solid anti-wear ribs protect against wear through
- frost-resistant
- extremely high carrying capacity
- please use correctly in accordance with the instruction manual!



Technical Data					
Art.-No.	Volume	Max. carrying capacity	Length	Width	Height
5422 11 200 1	200 l	600 kg	99 cm	66.5 cm	49 cm

Article No.	Article Description	QTY
5422 11 200 1	MORTAR CRATE CRANE-LIFT.200L	1



Formwork Release Oil Sprayer 3585P 10 Litres

- can be worn on the back
- inspection glass enables you to check the oil level
- polyester-coated steel container
- flexible 2.5 m long spiral hose with safety latch
- spray and extension pipe holder
- brass spray pipe, 50 cm, 360° rotatable
- precision flat spray nozzle with a fine nozzle
- large filling opening with funnel cover



Technical Data

Filling volume:	10.0 l
Overall volume:	13.0 l
Operating pressure:	6 bar
Operating temperature:	max. 40 °C
Empty weight:	5.5 kg

Article No.	Article Description	QTY
5422 3	FORMW.REL. OIL SPR.3585P 10L	1

Formwork Release Oil

- a high-quality, semi-synthetic and non-water-soluble universal release agent
- does not stain concrete surfaces and is economical to use and therefore particularly cost-effective
- free of waxes, silicones and solvents
- environmentally friendly and readily biodegradable

Field of application:

- used for all types of formwork common in concrete factories and structural engineering: for non-absorbent or slightly absorbent formwork (phenolic resin formwork facing etc.) and for solid plastic and plastic-coated formwork facing
- suitable for timber, metal and plastic formwork and can also be used for heated formwork up to a temperature of +80 °C

Technical Data

Appearance:	clear
Density (15 °C DIN 51 757):	860 kg/m ³



Article No.	Article Description	QTY
6880 26 30	CAN(30L)FORMWORK RELEASE OIL	1
6880 26 1000	1000 L FORMWORK RELEASE OIL	1

Stirrer Hexagonal

- Stable stirring rod made of round steel
- Hexagonal connection
- Galvanized surfaces guarantees long lifetime
- Quality welding connection provides for high stability
- Protective ring prevents damaging on the bottom of the mixing vessel



Article No.	Article Description	QTY
5417 6 80 1	STIRRER HEXAGON.80MM RONDE	1
5417 6 100	STIRRER HEXAGON.100MM RONDE	1
5417 6 100 1	STIRRER HEX.100MM 3W PULLING	1
5417 6 120	STIRRER HEXAGON.120MM RONDE	1
5417 6 120 1	STIRRER HEX.120MM 3W PULLING	1



Technical Data							
Art. No.	Type	Ø mm	Shaft-connection	Shaft-Ø mm	Length mm	Machine performance min.	Type/Application
5417 6 80 1	Ronde	80	hexagonal	8	400	Battery-oper. driver	classic stirrer, suitable for all kinds of liquids
5417 6 100	Ronde	100	hexagonal	10	600	Battery oper. driver, Drilling mach. 500 W	
5417 6 100 1	Ronde	120	hexagonal	10	600	Drilling machine 700 W	
5417 6 120	3 W pulling	100	hexagonal	10	600	Drilling machine 700 W	3 strong mixing blades make fast working possible for all medium heavy and tough materials
5417 6 120 1	3 W pulling	120	hexagonal	10	600	Drilling machine 900 W Mixer 850 W Mixer at least 1000 W	

Application materials Ronde:

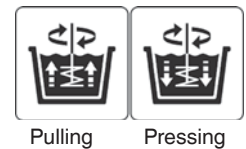
- Colours, paints, varnishes, primer, wallpaper paste, chemicals, cement sludge, epoxyd resin, compensation compound

Application materials pulling:

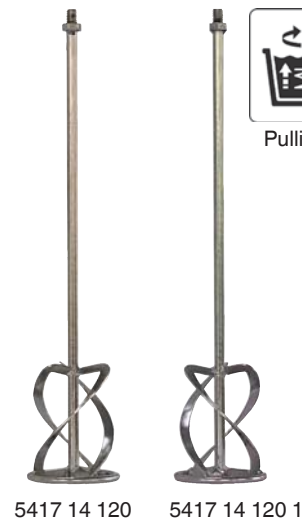
- Adhesive and ready-mixed mortar, epoxyd resin, plaster, concrete, filler compound, tile adhesive, full thermal insulation, casting compound

Stirrer M14

- Stable stirrer rod made of round steel
- M14 connection
- Galvanized surface guarantees long lifetime
- Quality welding connection provides for high stability
- Protective ring prevents damaging on the bottom of the mixing vessel



Article No.	Article Description	QTY
5417 14 120	STIRRER M14 120MM 3W PULLING	1
5417 14 140	STIRRER M14 140MM 3W PULLING	1
5417 14 120 1	STIRRER M14 120MM 3W PRESSING	1
5417 14 140 1	STIRRER M14 140MM 3W PRESSING	1



Technical Data							
Art. No.	Type	Ø mm	Shaft-connection	Shaft-Ø mm	Length mm	Machine performance min.	Type/Application
5417 14 120	3 W pulling	120	M14	14	600	Mixer 850 W	3 strong mixing blades make fast working possible for all medium heavy and tough materials
5417 14 140	3 W pulling	140	M14	14	600	Mixer at least 1000 W	
5417 14 120 1	3 W pressing	120	M14	14	600	Mixer at least 1000 W	no squirting out of the material, 3 strong mixing blades for light and medium heavy materials
5417 14 140 1	3 W pressing	140	M14	14	600	Mixer at least 1200 W	

Application materials pulling:

- Adhesive and ready-mixed mortar, epoxyd resin, plaster, concrete, filling compound, tile adhesive, full thermal insulation, casting compound

Application materials pressing:

Shovel 'Holstein'

- According to DIN
- Tempered
- Size LxW: 270 x 250 mm
- Stem: Art.-No. 5417 4 130 1

Article No.	Article Description	QTY
5417 4 260	SHOVEL 'HOLSTEIN' 270X250	1
5417 4 260 1	SHOVEL 'HOLSTEIN' 3/4	1



Sand Shovel 'Bavaria'

- According to DIN forged
- Tempered
- With funnel, ribbed at the bottom
- Stem: Art.-No. 5417 4 130 1

Article No.	Article Description	QTY
5417 4 280	SAND SHOVEL 'BAVARIA' 280X280	1



Shovel 'Frankfurt'

- According to DIN
- Tempered
- Stem: Art.-No. 5417 4 130 1

Article No.	Article Description	QTY
5417 4 300	SHOVEL 'FRANKF.' W.BENT EDGES L	1



Shovel 'Dutch'

- According to DIN
- Tempered
- Stem: Art.-No. 5417 4 130 1

Article No.	Article Description	QTY
5417 4 300 2	SHOVEL 'DUTCH' 3/4	1



Dig Shovel

- According to DIN
- Tempered
- Stem: Art.-No. 5417 4 130 1

Article No.	Article Description	QTY
5417 4 300 3	DIG SHOVEL 300X160	1



Shovel - Aluminium



Article No.	Article Description	QTY
5417 4 380	SHOVEL ALUMINIUM WITH STEM	1

Scope of delivery:

- 1x Art.-No. 5417 4 130 1: stem

Digging Shovel - Titanium



Article No.	Article Description	QTY
5417 1000	DIGG.SHOVEL TITAN.W.STEAM1000G	1

Scope of delivery:

- 1x Art.-No. 5417 1000 1: stem

Spade

- With treadle
- Size LxW: 280 x 170 mm



Article No.	Article Description	QTY
5417 280	SPADE HEAVY T-GRIP	1

Scope of delivery:

- With T-grip

Snow Shovel Wood

- Width 500 mm
- With robust, galvanized steel edge
- Weather-resistant, 5 time veneered wood
- Strong stem connection
- Stem included in delivery



Article No.	Article Description	QTY
5417 4 500	SNOW SHOVEL WOOD WITH STEM	1

Snow Shovel Alu

- Width 500 mm
- With robust aluminium edge
- Shovel-effect due to side edges
- Strong stem connection
- Stem included in delivery



Article No.	Article Description	QTY
5417 4 500 1	SNOW SHOVEL ALU WITH STEM	1

Snow Shovel Plastic

- Width 500 mm
- With robust aluminium edge
- With high side edge
- Up to -20°C cold impact strength
- Strong stem connection
- Stem included in delivery



Article No.	Article Description	QTY
5417 4 500 2	SNOW SHOVEL PLASTIC WITH STEM	1

Rake

Art. No. 5417 14 and Art. No. 5417 16:

- Light-weight model
- Tine length: 70 mm
- Stick: Art. No. 5417 130 3

Art. No. 5417 14 1 and Art. No. 5417 16 1:

- Heavy model
- Tine length: 105 mm
- Stick: Art. No. 5417 35 1

Article No.	Article Description	QTY
5417 14	RAKE LIGHT-WEIGHT 14X360MM	1
5417 14 1	RAKE HEAVY 14X450MM	1
5417 16	RAKE LIGHT-WEIGHT 16X410MM	1
5417 16 1	RAKE HEAVY 16X520MM	1



Stone Scraper

- Stem: Art.-No. 5417 130 3

Article No.	Article Description	QTY
5417 210	STONE SCRAPER 210X210MM	1



Stone Fork

- Stem: Art.-No. 5417 130 3

Article No.	Article Description	QTY
5417 330	STONE FORK 330X250MM	1



Concrete rammer

- Suitable for fixing various surfaces, e.g. in road construction e.g. smaller gravel surfaces or cold asphalt
- Surface 20 x 20 cm
- Total height: 83 cm
- With T grip

Article No.	Article Description	QTY
5417 20	CONCR.RAMMER 20X20X83 T-GRIP	1



Scraper

- Blade made of sheet steel
- Stick: Art.-No. 5417 130 3

Article No.	Article Description	QTY
5417 150	SCRAPER 150MM	1
5417 300	SCRAPER 300MM	1
5417 500	SCRAPER 500MM	1



Blade for Scraper

- Replacement blade for scraper

Article No.	Article Description	QTY
5417 300 1	BLADE 300MM	1



Tar Distribution Tool - Aluminium

Art.-No. 5417 100 1 and Art. No. 5417 700 1:

- Blade, closed on both sides
- With two-fold bracead stick support
- Stick: Art. No. 5417 35 1

Art.-No. 5417 700:

- S-shaped angled blade
- With two-fold braced stick support
- Stick: Art.-No. 5417 35 1

Art.-No. 5417 600 1:

- Smooth blade
- With three-fold braced stick support
- Stick: Art.-No. 5417 35 1

Art.-No. 5417 800:

- Smooth blade
- With three-fold braced stick support
- Stick: Art.-No. 5417 35 1



Article No.	Article Description	QTY
5417 100 1	ALU-TAR DISTR.HOLLOW PRO.100CM	1
5417 600 1	ALU-TAR DISTR.TOOTHED 60CM	1
5417 700	ALU-TAR DISTR.S-SHAPED 70CM	1
5417 700 1	ALU-TAR DISTR.HOLLOW PRO.70CM	1
5417 800	ALU-TAR DISTR.SMOOTH BLADE80CM	1

Spare Handles

- If necessary use ring wedge (AGR 4729)

Article No.	Article Description	QTY
5417 4 110 1	STICK FOR SHOVEL 1.3M ASH	1
5417 4 130 1	STICK FOR SHOVEL 1.3M ASH	1
5417 22 1 1	PICKAXE STICK 950MM	1
5417 28 1	STICK WITH CONUS 28X1800 MM	1
5417 35 1	STICK WITH CONUS 35X1800MM	1
5417 130 3	STICK FOR SCRAPER 1.3M BEECH	1
5417 950	PICKAXE STICK 1.5KG BL.950MM	1
5417 950 1	PICKAXE STICK 2.5-3.5 SI.950MM	1
5417 1000 1	STICK FOR TITAN.DIGGING SHOVEL	1
5422 5 1	STICK FOR SPADE/FORK	1



5417 4 130 1, 5417 1000 1



5417 22 1 1



5417 950, 5417 950 1



5417 28 1, 5417 35 1, 5417 130 3



5417 4 110 1, 5422 5 1

Pickaxe

- Oval eye

Article No.	Article Description	QTY
5417 22 1	PICKAXE WITH STICK 2.2KG	1

Included in delivery:

- 1x Art. No. 5417 22 1 1: stick



Pickaxe

- Oval eye

Art.-No. 5417 15:

- Stick: Art. No. 5417 950

Art.-No. 5417 25, 5417 30 and Art.-No. 5417 35:

- Stick: Art.-No. 5417 950 1

Article No.	Article Description	QTY
5417 15	PICKAXE 1.5KG	1
5417 25	PICKAXE 2.5KG	1
5417 30	PICKAXE 3.0KG	1
5417 35	PICKAXE 3.5KG	1



Slide rail with device holder

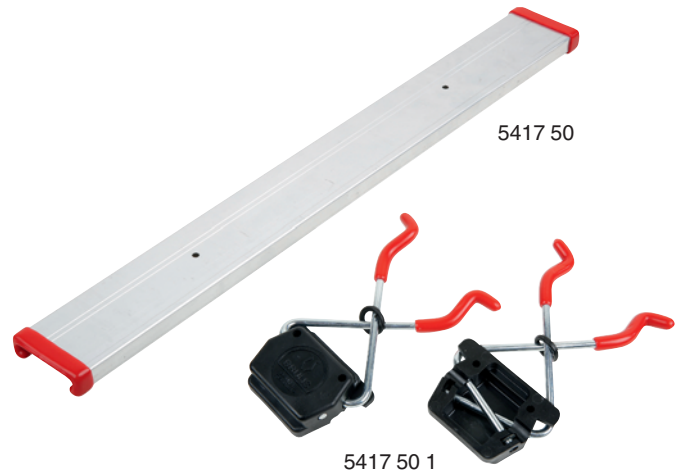
Art.-No. 5417 50:

- Profiled slide rail for mounting device holder
- Incl. dowels and screws

Art.-No. 5417 50 1:

- 2 universal device holders made of galvanised steel, plastic-coated, break-proof base
- For secure hold, continuously adjustable to hold all handled devices made of wood, metal or plastic
- Clamping range up to 50 mm; max. load 10 kg per hook

Article No.	Article Description	QTY
5417 50	SLIDE RAIL 50CM	1
5417 50 1	DEVICE HOLDER UNIVERAL (2)	1



Spading Fork

- 4 prongs

Article No.	Article Description	QTY
5422 5	SPADING FORK	1

Included in delivery:

- 1x Art.-No. 5422 5 1: T-handle



Plate Support

- Adjustable in 50 mm-steps
- For plates from 300 – 500 mm edge length
- Load carrying capacity: max. 60 kg

Article No.	Article Description	QTY
5417 1 1 1	PLATE SUPPORT	1



Stone Carrying Tongs

- Adjustable in 15 mm gradations
- For panels with a edge length of 415 – 460 mm
- Load capacity: 50 kg

Article No.	Article Description	QTY
5417 1 1 2	STONE CARRYING TONGS	1



Plaster Spreading Tool

- 2 handles
- 1 step

Article No.	Article Description	QTY
5417 1 1 3	PLASTER SPREADING TOOL	1



Plaster Pliers

- Span: 90 – 270 mm

Article No.	Article Description	QTY
5417 1 1 4	PLASTER PLIERS	1



Kerb Tongs

- Load capacity: 100 kg
- Dead weight: 4.5 kg

Article No.	Article Description	QTY
5417 1 1 6	KERB TONGS	1



Pipe-cutting machine DISC 100

- Compact, lightweight and robust pipe-cutting machine for all common pipe materials
- Rectangular cutting and deburring with a machine; ideal for dealing with press fitting systems
- Cutting without surface burr due to a special cutting wheel
- Dry cutting means no lubricant damage to the 'O' rings
- Rapid cutting due to optimum speed; no degradation of pipe material through overheating
- Chip-free cutting means no chips in the piping system
- Easy to use; no tools required
- Easy to transport and use anywhere due to its light weight of 16.8 kg



Article No.	Article Description	QTY
8951 100 100	PIPE CUTT.MACHINE DISC 100	1
8951 100 101	SPECIAL CUTT.WHEEL CU/INOX	1
8951 100 103	SPECIAL CUTT.WHEEL ST.	1

Accessory pack for pipe-cutting machine DISC 100

Ideal supplement to the DISC 100 pipe cutting machine for user-friendly work; comprises:

- Base for DISC 100 pipe cutting machine
- Material support with ball-bearing guide; adjustable height

The accessories pack permits user-friendly work, even with long pipes, due to individually adaptable material support. The base provides a secure stand for the pipe cutting machine.



Article No.	Article Description	QTY
8951 100 110	ACCESSORY PACK DISC 100	1

Inner and Outer Deburrer Premium

Solid and robust inner and outer deburrer for manual operation and electric drive

- Especially hardened and ground blades for easy and effortless deburring
- Robust metal design for tough use e.g. construction site
- Anti-skid casing for optimum grip, also at difficult conditions
- For all commercially available cordless screwdrivers (speed up to 300 1/min)
- Mount - effortless deburring - ready
- Suitable for Pipe Cutting Machine Disc 100 Art.-No. 8951 100 100



Article No.	Article Description	QTY
4941 10 54 1	PREM.INNER+OUTER DEBURRER10-54	1



Electrical pipe cutter, SmartCut

- for copper pipes from Ø 10 – 35 mm, C-steel pipes Ø 12 – 28 mm and composite pipes Ø 10 – 400 mm
- ideal from quickly cutting pipes for press fitting systems at right angles, e.g. Copper pipe Ø 22 mm in just 3 seconds
- Optimum for the requirements of press fitting systems:

Cutting without external burr

- for **dry cutting**, prevents damage to the O-ring by lubricants
- for **quick cutting**, without damaging the pipe material by overheating
- for **chipless cutting**
- precise cut at right angles**
- thanks to low weight of just 1.9 kg, particularly handy and mobile
- simple operation without adjustment
- robust, maintenance-free gearing with high quality ball and needle bearings for a long service life
- also suitable for bench-mounting and mounting in a vice
- the cutting wheels are adjusted to the performance data of the SmartCut and to the material to be cut using different cutting geometries



Article No.	Article Description	QTY
4941 10 40	ELECTR.PIPE CUTTER SMARTCUT	1
4941 1 10 40	CUTT.WHEEL /INOX SMARTCUT	1
4941 2 10 40	CUTT.WHEEL CONN.WHEEL SMARTCUT	1

Scope of delivery:

- Mechanical drive with pipe supports
- Single-ended open-ended spanner size 8
- Carrier bag
- Without cutting wheel

Battery driven pipe cutter Smart Cut battery pack

- For copper pipes from Ø 10 – 35 mm, C-steel pipes Ø 12 – 28 mm and composite pipes Ø 10 – 400 mm
- Ideal for quickly cutting pipes for press fitting systems at right angles, e.g. Copper pipe Ø 22 mm in just 3 seconds
- Optimum for the requirements of press fitting systems:
- **Cutting without external burr**
- for **dry cutting**, prevents damage to the O-ring by lubricants
- for **quick cutting** without damaging the pipe material by overheating
- for **chipless cutting**
- **precise cut at right angles**
- Thanks to low weight of just 2.1 kg including battery pack, particularly handy and mobile
- Simple operation without adjustment
- Robust, maintenance-free gearing with high quality ball and needle bearings for a long service life
- Also suitable for bench-mounting and mounting in a vice
- The cutting wheels are adjusted to both the performance data of the SmartCut and to the material to be cut using different cutting geometries

Li-ion technology:

- Li-ion battery pack 10.8 V, 1.3 Ah capacity for an extremely long service and great performance reserves
- Protection against overheating and overcharging provided by temperature monitoring
- Quick charge device for short charging times



Article No.	Article Description	QTY
4941 10 40 1	ELECTR.PIPE CUTTER SMARTCUT A	1
4941 1 10 40	CUTT.WHEEL /INOX SMARTCUT	1
4941 2 10 40	CUTT.WHEEL CONN.WHEEL SMARTCUT	1

Scope of delivery:

- Mechanical drive with pipe supports
- Li-ion battery pack 10.8 V, 1.3 Ah
- Quick charge device
- Single-ended open-ended spanner size 8
- Carrier bag
- Without cutting wheel

Pipe Cutter Compact 3- 16 mm

- For thin-walled steel pipes with a max. wall thickness of 2 mm
- Body, slide and rotary knob made from high-quality zinc die-cast material
- Spindle carried in steel bearings for optimal slide glide
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- Ergonomic rotary knob for improved power transmission
- Extremely compact design
- For thin-walled metal pipes (up to 2 mm) AL, CU, STAINLESS STEEL

Replacement parts:

- Art.-No. 4941 3 1: Replacement cutting wheel
- Art.-No. 4941 3 10: Replacement cutting axle ICS

Article No.	Article Description	QTY
4941 3 16	COMPACT PIPE CUTTER 3-16 MM	1
4941 3 1	SPARE CU.WH.19X6,2ALU,CU,INOX	1
4941 3 10	SPARE CUTTING WH.SPINDLE 6,2MM	1



Pipe Cutter Compact 3 - 30 mm

- For thin-walled steel pipes with a max. wall thickness of 2 mm
- Body, slide and rotary knob made from high-quality zinc die-cast material
- Spindle carried in steel bearings for optimal slide glide
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- Ergonomic rotary knob for improved power transmission
- Replacement cutting wheel in the rotary knob
- Extremely compact design
- For Thin-walled metal pipes (up to 2 mm) AL, CU, STAINLESS STEEL

Replacement parts:

- Art.-No. 4941 3 1: Replacement cutting wheel AL, CU, STAINLESS STEEL
- Art.-No. 4941 3 10: Replacement cutting axle ICS

Article No.	Article Description	QTY
4941 3 30	COMPACT PIPE CUTTER 3-30 MM	1
4941 3 1	SPARE CU.WH.19X6,2ALU,CU,INOX	1
4941 3 10	SPARE CUTTING WH.SPINDLE 6,2MM	1



Pipe Cutter 3 - 35 mm

- Body made from magnesium die-cast material, providing reduced weight and high stability
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- Longer rotary knob in conical shape and replacement cutting wheel in the cap on the rotary knob
- With 4 guide rollers for optimal holding of the pipe
- With completely removable deburring blade for left-hand and right-hand use
- Spindle carried in steel bearings for improved sliding and rapid adjustment of the working area

Replacement parts:

- Art.-No. 4941 3 1: Replacement cutting wheel AL, CU, STAINLESS STEEL
- Art.-No. 4941 3 10: Replacement cutting wheel axle ICS
- Art.-No. 4941 3 20: Pipe deburrer, removable

Article No.	Article Description	QTY
4941 3 35	PIPE CUTTER 3-35 MM	1
4941 3 1	SPARE CU.WH.19X6,2ALU,CU,INOX	1
4941 3 10	SPARE CUTTING WH.SPINDLE 6,2MM	1
4941 3 20	SPARE REMOVABLE REAMER 35/45M	1



Pipe Cutter 3 - 45 mm

- Body made from magnesium die-cast material, providing reduced weight and high stability
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- longer rotary knob in conical shape and replacement cutting wheel in the cap on the rotary knob
- with 4 guide rollers for optimal holding of the pipe
- with completely removable deburring blade for left-hand and right-hand use
- Spindle carried in steel bearings for improved sliding and rapid adjustment of the working area

Replacement parts:

- Art.-No. 4941 3 1: Replacement cutting wheel AL, CU, STAINLESS STEEL
- Art.-No. 4941 3 10: Replacement cutting axle ICS
- Art.-No. 4941 3 20: Pipe deburrer, removable



Article No.	Article Description	QTY
4941 3 45	PIPE CUTTER 3-45 MM	1
4941 3 1	SPARE CU.WH.19X6,2ALU,CU,INOX	1
4941 3 10	SPARE CUTTING WH.SPINDLE 6,2MM	1
4941 3 20	SPARE REMOVABLE REAMER 35/45M	1

Pipe Cutter Steel 10 - 60 mm

- forged steel body, slide made from zinc die-cast material
- improved pressure distribution as a result of optimised cutting body geometry
- improved cut and service life of the cutting wheel as a result of the spring hold-down system
- ICS system provides rapid replacement of the cutting wheel without the need for Tools

Replacement parts:

- Art.-No. 4941 3 3: Replacement cutting wheel steel
- Art.-No. 4941 3 13: Replacement cutting axle ICS



Article No.	Article Description	QTY
4941 3 60 3	PIPE CUTTER FOR STEEL 10-60 MM	1
4941 3 3	SPARE WHEEL 31X19MM F.STEEL	1
4941 3 13	SPINDLE F.CUTT.WHEEL 19MM ST	1

Pipe Cutter Steel 60 - 114 mm

- forged steel body, slide made from zinc die-cast material
- improved pressure distribution as a result of optimised cutting body geometry
- improved cut and service life of the cutting wheel as a result of the spring hold-down system
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- with additional lever for optimal power distribution

Replacement parts:

- Art.-No. 4941 3 3: Replacement cutting wheel steel
- Art.-No. 4941 3 14: Replacement cutting axle ICS



Article No.	Article Description	QTY
4941 3 114 3	PIPE CUTTER F.STEEL 60-114 MM	1
4941 3 4	SPARE WHEEL 41X28MM F.STEEL	1
4941 3 14	SPINDLE F.CUTT.WHEEL 28MM ST	1

Pipe Cutter Compact 3-30mm INOX **FÖRCH*******

- Cutting wheel and cutting rollers carried in needle bearings, resulting in particularly smooth cutting of stainless steel pipes
- for thin-walled steel pipes with a max. wall thickness of 2 mm
- body, slide and rotary knob made from high-quality zinc die-cast material
- spindle carried in steel bearings for optimal slide glide
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- ergonomic rotary knob for improved power transmission
- Replacement cutting wheel carried in needle bearings in the rotary knob
- extremely compact design
- cutting wheel with special geometry for stainless steel pipes

Replacement parts:

- Art.-No. 4941 3 2: Replacement stainless steel cutting wheel carried in needle bearings
- Art.-No. 4941 3 10: Replacement cutting axle ICS



Article No.	Article Description	QTY
4941 3 30 2	COMPACT PIPE CUTTER 3-30 5*	1
4941 3 2	SPARE WHEEL 19X6,20 INOX 5*	1
4941 3 10	SPARE CUTTING WH.SPINDLE 6,2MM	1

Pipe Cutter 3-35 mm INOX **FÖRCH*******

- cutting wheel and cutting rollers carried in needle bearings, resulting in particularly smooth cutting of stainless steel pipes
- body made from magnesium die-cast material, providing reduced weight and high stability
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- longer rotary knob in conical shape and replacement cutting wheel carried in needle bearings in the cap on the rotary knob
- with 4 guide rollers carried in needle bearings for optimal holding of the pipe
- with completely removable deburring blade for left-hand and right-hand use
- spindle carried in steel bearings for improved sliding and rapid adjustment of the working area

Replacement parts:

- Art.-No. 4941 3 2: Replacement stainless steel cutting wheel carried in needle bearings
- Art.-No. 4941 3 10: Replacement cutting axle ICS
- Art.-No. 4941 3 20: Pipe deburrer, removable



Article No.	Article Description	QTY
4941 3 35 2	PIPE CUTTER 3-35 MM INOX 5*	1
4941 3 2	SPARE WHEEL 19X6,20 INOX 5*	1
4941 3 10	SPARE CUTTING WH.SPINDLE 6,2MM	1
4941 3 20	SPARE REMOVABLE REAMER 35/45M	1

Pipe Cutter 3-45 mm INOX **FÖRCH*******

- cutting wheel and cutting rollers carried in needle bearings, resulting in particularly smooth cutting of stainless steel pipes
- body made from magnesium die-cast material, providing reduced weight and high stability
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- longer rotary knob in conical shape and replacement cutting wheel carried in needle bearings in the cap on the rotary knob
- with 4 guide rollers carried in needle bearings for optimal holding of the pipe
- with completely removable deburring blade for left-hand and right-hand use
- Spindle carried in steel bearings for improved sliding and rapid adjustment of the working area

Replacement parts:

- Art.-No. 4941 3 2: Replacement stainless steel cutting wheel carried in needle bearings
- Art.-No. 4941 3 10: Replacement cutting axle ICS
- Art.-No. 4941 3 20: Pipe deburrer, removable



Article No.	Article Description	QTY
4941 3 45 2	PIPE CUTTER 3-45MM INOX 5*	1
4941 3 2	SPARE WHEEL 19X6,20 INOX 5*	1
4941 3 10	SPARE CUTTING WH.SPINDLE 6,2MM	1
4941 3 20	SPARE REMOVABLE REAMER 35/45M	1

Pipe Cutter 6-76 INOX **FÖRCH*******

- cutting wheel and cutting rollers carried in needle bearings, resulting in particularly smooth cutting of stainless steel pipes
- body made from magnesium die-cast material, providing reduced weight and high stability
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- longer rotary knob in conical shape and replacement cutting wheel carried in needle bearings in the cap on the rotary knob
- with 4 guide rollers carried in needle bearings for optimal holding of the pipe
- with completely removable deburring blade for left-hand and right-hand use
- spindle carried in steel bearings for improved sliding and rapid adjustment of the working area

Replacement parts:

- Art.-No. 4941 3 2: Replacement stainless steel cutting wheel carried in needle bearings
- Art.-No. 4941 3 10: Replacement ICS cutting wheel axle
- Art.-No. 4941 3 21: Pipe deburrer, removable



Your Advantage / Benefit

- smooth cutting as a result of the use of needle bearings
- sturdy top quality
- replacement of cutting wheel without the need for tools

Application



Article No.	Article Description	QTY
4941 3 76 2	PIPE CUTTER 6-76MM INOX 5*	1
4941 3 2	SPARE WHEEL 19X6,20 INOX 5*	1
4941 3 10	SPARE CUTTING WH.SPINDLE 6,2MM	1
4941 3 21	REMOVABLE REAMER 76/127/170MM	1

Related Products

- Pipe deburrer
10 - 56 mm
Art.-No. 4941 10 56



- Multipress Mini ACC
Art.-No. 4946 300



Pipe Cutter Chain-Exhaust

- The chain has to be forged in order to prevent jamming of the cutting wheels (cutter edges)
- Do not apply too much pressure to the grips. Please note that less force onto the grips is more efficient than applying too much pressure.
- Avoid jamming of the tool to prevent breaking-out of the cutting wheels



Article No.	Article Description	QTY
4941 85	CHAIN-EXHAUST-PIPE CUTTER 83MM	1
4941 78	CHAIN-EXHAUST-CUTTER INOX	1

Technical Data

Pipe outer-Ø	Max. strength	Grip	Areas of use
Max. 83 mm	2.3 mm	230 mm	for steel pipes
max. 78 mm	2.3 mm	230 mm	for stainless steel pipes

Pipe Cutter - Mini

- Small pipe cutter for copper, brass, aluminium and thin-walled steel pipes

Advantages:

- Small radius
- Supporting rolls with cut-in for flanges
- Handy construction form
- Suitable for tight spaces

Article No.	Article Description	QTY
4941 16	MINI-PIPE CUTTER 3-16MM	1
4941 22	MINI-PIPE CUTTER 3-22MM	1
4941 30 1	CUT.WHEEL CU F.MINI-PIPE CUT30	1
4941 30 2	CUT.WHE.V2A F.MINI-PIPE CUT.30	1



Technical Data

For pipe-Ø	For pipe-Ø	Outside-Ø	Drill-Ø	Width
1/8" - 5/8"	3 - 16 mm	18 mm	4.75 mm	3 mm
1/8" - 7/8"	3 - 22 mm	18 mm	4.75 mm	3 mm

Pipe Cutter - Small

- For cutting thin-walled copper, brass aluminium and steel pipes
- With one cutting wheel and two guide rollers, replacement cutting wheel head in the handle
- Mounted, foldable deburrer



Article No.	Article Description	QTY
4941 30	COPPER PIPE CUTTER 3-30MM	1
4941 30 1	CUT.WHEEL CU F.MINI-PIPE CUT30	1
4941 30 2	CUT.WHE.V2A F.MINI-PIPE CUT.30	1

Technical Data

For pipe-Ø	For pipe-Ø	Outside-Ø	Drill-Ø	Width
1/8" - 1 1/8"	3 - 30 mm	18 mm	4.75 mm	3 mm

Pipe Cutter - Ratchet

Art. No. 4941 285:

- For copper pipes 8-28,5 mm (5/16" - 1 1/8")

Art. No. 4941 35 and 4941 67:

- For the use in automobile and building services
- For steel, inox, copper, aluminium < 3 mm material thickness
- Cutting range 12 - 35 mm (4941 35), 28 - 67 mm (4941 67)
- Special cutting wheel for plastic pipes as accessory

Art. No. 4941 35:

- Plastic replacement cutting wheel included in delivery

Article No.	Article Description	QTY
4941 285	RATCHET PIPE CUTTER 8-28.5	1
4941 285 1	CUT.WHEEL CU F.RAT.PIPE CUTTER	1
4941 285 2	CUT.WHEEL V2A F.RAT.PIPE CUTTER	1
4941 35	RATCHET-PIPE CUTTER 12-35MM	1
4941 67	RATCHET-PIPE CUTTER 28-67MM	1
4941 67 1	CUT.WHEEL PLS.F.PIPE CUT.35+67	1
4941 67 2	CUT.WHEEL MET.F.PIPE CUT.35+67	1



4941 285

4941 35
4941 67

Deburring Tool for Pipes In-/Outside

- For deburring of steel pipes, aluminium and copper pipes, and such made of plastic material
- Ideal for use in the processing of automotive brake lines
- Retractable inside deburring element
- For inside diameters: 3-12 mm
- For outside diameters: 4-14 mm
- Length: 125 mm
- Material: HSS

Article No.	Article Description	QTY
4941 125	DEBUR.TOOL F.PIPES IN-/OUTSIDE	1
4941 125 1	REPL.BLADE OUTER FOR 125	1
4941 125 2	REPL.BLADE INNER FOR 125	1



4941 125 2



4941 125 1



Sheet Metal Punch Set for Sanitary Sector

Special selection for punching out the holes for stainless steel sink units

- Makes fast, easy, clean and burr-free punching of thin-walled materials possible
- Improved support due to 3 cutting tips thus minor deformation of the material to be punched, no damage of the tension bolt
- Before applying the screw hole punch, it is essential to grease the tension bolt with the drilling and cutting oil (Art. No. 6580 5800)
- The metric tension bolts of the screw hole punches have the highest quality class and are designed for extreme pressure - in case of loss the commercially available metric fine thread screw can also be used

Richtwerte über den Einsatz von Schraublochstanzen:

Technical Data

Tension bolt mm	Steel sheets mm	St. steel sheets mm	Non-ferrous and light metals mm	Plastics mm
MF 8 x 1.0	2.0	1.0	4.0	4.0
MF 10 x 1.0	2.0	1.0	4.0	4.0
MF 12 x 1.5	3.0	2.0	4.0	4.0
MF 16 x 1.5	3.0	2.0	4.0	4.0

Article No.	Article Description	QTY
4944 100	SH.MET.PUNCH SET SANITARY	1

Included in delivery:

- Punch diameter 28.3 mm (PG21)
- Punch diameter 32.0 mm
- Punch diameter 35.0 mm
- Tension bolt MF 12 x 1.5 mm
- HSS tube and sheet drill 3-14 mm
- Plastic transport case



Sheet metal single-hole punch

- punch thin materials quickly and effortlessly, cleanly and free of burrs
- improved seating due to 3-point cut means less deformation of the punched parts, thus preventing damage to the draw bolt
- before using the hole punch, it is essential to lubricate the draw bolt with drilling and cutting oil (art.no. 6580 5800)
- the metric draw bolts of the hole punch are always of the highest grade and are thus designed for extreme loads - if lost, they can also be replaced for short-term use with commercial metric fine-thread bolts
- available in diameters of 18 mm, 20 mm, 22,5 mm, 26 mm, 32 mm, 35 mm, 40 mm, 50 mm
- MF 10 draw bolt for hole punches 18mm, 20 mm, 22,5 mm, 26 mm
- MF 12 draw bolt for punches 32 mm, 35 mm, 40 mm, 50 mm



Article No.	Article Description	QTY
4944 18	SHEET MET.SING.HOLE PUNCH 18MM	1
4944 20	SHEET MET.SING.HOLE PUNCH 20MM	1
4944 225	SHEET MET.SING.HOLE P. 22,5MM	1
4944 26	SHEET MET.SING.HOLE P. 26MM	1
4944 32	SHEET MET.SING.HOLE P. 32MM	1
4944 35	SHEET MET.SING.HOLE P. 35MM	1
4944 40	SHEET MET.SING.HOLE P. 40MM	1
4944 50	SHEET MET.SING.HOLE P. 50MM	1

Internal / External Milling Cutter

- 3 ground and hardened cutting edges
- For fast and vibration-free deburring
- Pipe-Ø 4 - 36 mm



Article No.	Article Description	QTY
4941 100	INTERNAL/EXTERNAL CUTTER	1

Pipe Deburrer inner/outer 8-35 mm

- Pipe deburrer for inner and outer for pipes with a diameter of 8-35 mm or 10-56 mm
- For all metal and plastic pipes
- Grip made of aluminium with profiling for good grip
- Deburrer made of high-quality, hardened steel



Article No.	Article Description	QTY
4941 8 35	PIPE DEBURRER 8-35MM	1
4941 10 56	PIPE DEBURRER 10-56MM	1

Copper Pipe - External Brush

- For copper and MS pipes etc
- Robust plastic housing



Article No.	Article Description	QTY
4941 22 12	COPPER PIPE-EXTERN.BRUSH 12MM	1
4941 22 15	COPPER PIPE-EXTERN.BRUSH 15MM	1
4941 22 18	COPPER PIPE-EXTERN.BRUSH 18MM	1
4941 22 22	COPPER PIPE-EXTERN.BRUSH 22MM	1
4941 22 28	COPPER PIPE-EXTERN.BRUSH 28MM	1

Copper Pipe - Internal Brush

Article No.	Article Description	QTY
4941 12 8	COPPER PIPE-INTERN.BRUSH 8MM	1
4941 12 10	COPPER PIPE-INTERN.BRUSH 10MM	1
4941 12 12	COPPER PIPE-INTERN.BRUSH 12MM	1
4941 12 15	COPPER PIPE-INTERN.BRUSH 15MM	1
4941 12 16	COPPER PIPE-INTERN.BRUSH 16MM	1
4941 12 18	COPPER PIPE-INTERN.BRUSH 18MM	1
4941 12 22	COPPER PIPE-INTERN.BRUSH 22MM	1
4941 12 28	COPPER PIPE-INTERN.BRUSH 28MM	1
4941 12 35	COPPER PIPE-INTERN.BRUSH 35MM	1



Battery operated Arco pipe bender

- For cold bending of hard, semi-hard and soft copper pipes, Ø 10 – 28 mm, soft, encased copper pipes
- Ø 10 – 18 mm, stainless steel pipes for press fitting systems Ø 12 – 28 mm, C-steel pipes for press fitting systems Ø 12 – 28 mm, soft precision steel pipes Ø 10 – 28 mm, steel pipes EN 10255 Ø 1/4" – 1/2", electrical ducting pipes EN 50086 Ø 16 – 25 mm, composite pipes Ø 14 – 32 mm
- mains-independent bending without cables for use in any location
- Short amortisation period by saving on expensive fittings
- Compact and handy design, easy to transport thanks to a low weight of just 8.6 kg (drive with battery pack)
- Allows quick and easy work without tools and adjustment
- Angle scale from 0 to 180°
- Also suitable for cross overs, double bends and swan neck bends
- Powerful 18 V motor
- Heavy duty Li-ion battery pack 18 V with 3.2 Ah
- Bending segments and sliders can be easily exchanged, for a range of pipe sizes

Article No.	Article Description	QTY
4942 15 22	BATT.OP.PIPE BEND.ARCO15/18/22	1
4942 15 28	BATT.PIPE BEND.ARCO15/18/22/28	1
4942 100	DEVICE HOLDER ARCO	1



Polo single-handed pipe bender

- For soft copper pipes from Ø 10 – 22 mm, soft, encased copper pipes Ø 10 – 18 mm, encased C-steel pipes Ø 12 – 18 mm, soft precision steel pipes Ø 10 – 18 mm, wall thickness up to 1 mm composite pipes Ø 14 – 32 mm
- To bend soft pipes quickly and easily up to 90°
- Can be used universally for many types of pipe
- Just one bending drive with mechanical feed for the entire working range of Ø 32 mm
- Can be used anywhere, at just 1.3 kg extremely handy and light
- Precision bending with marked bending segments
- Low friction bending segments made of high-strength, fibreglass reinforced polyamide

Art.-No. 4942 12 22:

- Kit mounted in a sheet steel case with the sliders: 12 mm, 15 mm, 18 mm, 22 mm

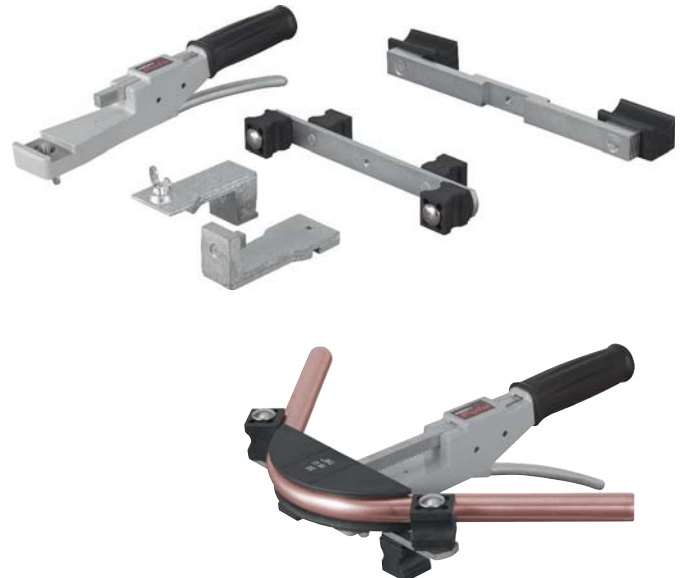
Art.-No. 4942 14 26:

- Kit mounted in a sheet steel case with the sliders: 14 mm, 16 mm, 18 mm, 20 mm, 25 / 26 mm

Art.-No. 4942 16 32:

- Kit mounted in a plastic case with the sliders: 16 mm, 18 mm, 20 mm, 25 / 26 mm, 32 mm

Article No.	Article Description	QTY
4942 12 22	PIPE BENDER 12 TO 22	1
4942 14 26	PIPE BENDER 14 TO 26	1
4942 16 32	PIPE BENDER 16 TO 32	1



Central manual thread-cutter

- Ideally suited for cutting pipe threads from 3/8" to a maximum of 2"
- The particularly slim ratchet head makes it possible to work in areas that are difficult to reach
- Split lever arm for short ratchet travel distances and reduced lever travel where workspace is restricted
- Quick and easy to change the cutting heads without tools
- Unique cutting head lock in the ratchet head provides a firm hold when starting to cut
- Precise, robust quick change cutting head with quality cutting jaws made of hardened special steel for an extremely long service life

Art.-No. 5569 38 114:

- Ratchet lever 1/8" – 1 1/4", quick change cutting heads ROLLER'S Central for right hand pipe threads ISO 7-1, EN 10226 3/8", 1/2", 3/4", 1", 1 1/4"

Art.-No. 5569 12 114:

- Ratchet lever 1/8" – 1 1/4", quick change cutting heads ROLLER'S Central for right hand pipe threads ISO 7-1, EN 10226 1/2", 3/4", 1", 1 1/4"

Art.-No. 5569 12 2:

- Ratchet lever 1/8" – 1 1/4" and ratchet lever 1 1/2" to 2", quick change cutting heads ROLLER'S Central for right hand pipe threads ISO 7-1, EN 10226 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"



Article No.	Article Description	QTY
5569 38 114	THREAD-CUTTER CENTRAL 3/8-1 1/4	1
5569 12 114	THREAD-CUTTER CENTRAL 1/2-1 1/4	1
5569 12 2	THREAD-CUTTER CENTRAL 1/2-2"	1

Quick change cutting head S for pipe threads

- Precision quick change cutting head for cutting threads in places that are difficult to reach
- For pipe threads 3/8" – 3/4"
- Ideal for renovation work or conversion of existing installations
- With specially mounted cutting jaws for problem solving in places that are difficult to reach
- Additional, precise pipe guide on the cover side to centre the pipe perfectly and to start cutting it slightly
- Ratchet drive extension, for cutting threads low down
- Drive provided by ROLLER'S Central ratchet lever 1/8" – 1 1/4"



Article No.	Article Description	QTY
5569 38 34	SET CUTTING HEAD "S"	1

Scope of delivery:

- Quick change cutting heads S for right handed pipe threads ISO 7-1, EN 10226 3/8", 1/2", 3/4", sheet steel case

King electrical thread cutting gripper 1 1/4"

- For repair, renovation and building sites
- Handy, compact design with a low weight of 4.5 kg (motor) for fatigue-free working
- Cutting heads can be changed quickly without tools
- Unique cutting head lock in the machine for firm hold when cutting
- Compact, robust and maintenance-free gearing for ideal power transmission
- Powerful motor (1,200 W, 230 V) with thermal overload protection, clockwise and anticlockwise rotation and safety inch button
- Simple to use, sturdy bracing to provide support in both directions of rotation

Article No.	Article Description	QTY
5569 18 114	EL.THR.CU.GRIPPER KING 1 1/4"	1

Scope of delivery:

- Drive
- Brace
- Quick change cutting heads ROLLER'S Central R 1/2", 3/4", 1", 1 1/4" for right handed pipe thread ISO 7-1, EN 10226
- Sheet steel case



King electrical thread cutting gripper 2"

- For repair, renovation and building sites
- Handy, compact design with a low weight of 5.7 kg (motor) for fatigue-free working
- Cutting heads can be changed quickly without tools
- Unique cutting head lock in the machine for firm hold when cutting
- Compact, robust and maintenance-free gearing for ideal power transmission
- Powerful motor (1,200 W, 230 V) with thermal overload protection, clockwise and anticlockwise rotation and safety inch button
- Simple to use, sturdy bracing to provide support in both directions of rotation

Article No.	Article Description	QTY
5569 18 200	EL.THR.CU.GRIPPER KING 2"	1

Scope of delivery:

- Antriebsmaschine
- Gegenhalter
- Adapter für Schneidköpfe bis 1 1/4" Schnellwechsel-Schneidköpfe ROLLER'S Central R 1/2", 3/4", 1", 1 1/4", 1 1/2", 2" für Rohrgewinde rechts ISO 7-1, EN 10226
- Stahlblechkasten



Pipe Cutter Plastic-/PE-X-Pipe 6-76 mm

- for cutting of plastic and composite pipes up to a wall thickness of 8.6 mm
- by inserting the cutting wheel, Art.-No. 4941 3 1 is also suitable for thin-walled metal pipes
- body made from aluminium die-cast material, slide and rotary knob made from zinc die-cast material
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- longer rotary knob in conical shape and replacement cutting wheel in the cap on the rotary knob
- with 4 guide rollers for optimal holding of the pipe
- with completely removable deburring blade for left-hand and right-hand use
- with fast feed system for rapid setting of the working range

Replacement parts:

- Art.-No. 4941 3 1: Replacement cutting wheel AL, CU, STAINLESS STEEL
- Art.-No. 4941 3 22: Replacement cutting wheel plastic / composite pipe
- Art.-No. 4941 3 10: Replacement cutting axle ICS
- Art.-No. 4941 3 21: Pipe deburrer, removable



Article No.	Article Description	QTY
4941 3 76 4	PIPE CUTTER KST 6-76 MM	1
4941 3 1	SPARE CU.WH.19X6,2ALU,CU,INOX	1
4941 3 22	SPARE WHEEL30X6,2KST U.PE-X	1
4941 3 10	SPARE CUTTING WH.SPINDLE 6,2MM	1
4941 3 21	REMOVABLE REAMER 76/127/170MM	1

Pipe Cutter Plastic /PE-X-pipe 50-127 mm

- for cutting plastic and compose pipes up to a wall thickness of 19.8 mm (can be adapted using various cutting wheels, see below)
 - body made from aluminium die-cast material, slide and rotary knob made from zinc die-cast material
 - ICS system provides rapid replacement of the cutting wheel without the need for tools
 - Cutting wheel with PTFE coating
 - a third guide roller, which can be set to two positions (110 mm and 127 mm), provides optimal guiding of the pipe during cutting
- Position 110 mm for cutting pipes up to 110 mm
Position 127 mm for cutting pipes from 110 mm to 127 mm
- with completely removable deburring blade for left-hand and right-hand use
 - with fast feed system for rapid setting of the working range
 - fitting the cutting wheel Art.-No. 4941 3 8 means that metal pipes up to a wall thickness of 6 mm can be cut

Replacement parts

- Art.-No. 4941 3 6: Replacement cutting wheel plastic / composite pipe up to 11.8 mm wall thickness
- Art.-No. 4941 3 9: Replacement cutting wheel plastic / composite pipe up to 19.8 mm wall thickness
- Art.-No. 4941 3 7: Replacement cutting wheel plastic / composite pipe up to 27.8 mm wall thickness
- Art.-No. 4941 3 23: Replacement cutting wheel AL, CU, STAINLESS STEEL
- Art.-No. 4941 3 11: Replacement cutting axle ICS
- Art.-No. 4941 3 21: Pipe deburrer, removable



Article No.	Article Description	QTY
4941 3 127 4	PIPE CUTTER KST 50-127 MM	1
4941 3 6	SPARE WHEEL35X11MM KST U. PE-X	1
4941 3 9	SPARE WHEEL51X11MM KST U. PE-X	1
4941 3 7	SPARE WHEEL67X11MM KST U. PE-X	1
4941 3 23	SPARE WHEEL25X11MM ALU,CU,INOX	1
4941 3 11	SPINDLE F.CUTTING WHEEL 11MM	1
4941 3 21	REMOVABLE REAMER 76/127/170MM	1

Pipe Cutter Plastic / PE-X-Pipe 100-170 mm

- for cutting plastic and composite pipes up to a wall thickness of 19.8 mm (can be adapted using various different cutting wheels, see below)
- body made from aluminium die-cast material, slide and rotary knob made from zinc die-cast material
- ICS system provides rapid replacement of the cutting wheel without the need for tools
- Cutting wheel with PTFE coating
- a third guide roller, which can be set to two positions (160 mm and 170 mm), provides optimal guiding of the pipe during cutting
- position 160 mm: for cutting pipes up to 160 mm
- position 170 mm: for cutting pipes from 160 mm - 170 mm
- with completely removable deburring blade for left-hand and right-hand use
- with fast feed system for rapid setting of the working range
- fitting the cutting wheel, Art.-No. 4941 3 8, means that metal pipes up to a wall thickness of 6 mm can be cut

Replacement parts:

- Art.-No. 4941 3 6: Replacement cutting wheel plastic / composite pipe up to 11.8 mm wall thickness
- Art.-No. 4941 3 9: Replacement cutting wheel plastic / composite pipe up to 19.8 mm wall thickness
- Art.-No. 4941 3 7: Replacement cutting wheel plastic / composite pipe up to 27.8 mm wall thickness
- Art.-No. 4941 3 23: Replacement cutting wheel AL, CU, STAINLESS STEEL
- Art.-No. 4941 3 11: Replacement cutting axle ICS
- Art.-No. 4941 3 21: Pipe deburrer, removable



Article No.	Article Description	QTY
4941 3 170 4	PIPE CUTTER KST 100-170 MM	1
4941 3 6	SPARE WHEEL35X11MM KST U. PE-X	1
4941 3 9	SPARE WHEEL51X11MM KST U. PE-X	1
4941 3 7	SPARE WHEEL67X11MM KST U. PE-X	1
4941 3 23	SPARE WHEEL25X11MM ALU,CU,INOX	1
4941 3 11	SPINDLE F.CUTTING WHEEL 11MM	1
4941 3 21	REMOVABLE REAMER 76/127/170MM	1

Plastic Pipe Cutter 35 mm

- Body and handle made from sturdy magnesium die-cast material, very light and sturdy
- easier, faster and more precise one-hand cutting of plastic and composite pipes as a result of the optimal power transmission
- ICS system provides simple blade replacement without the need for tools
- Stainless steel blade of highest quality and service life with optimal cutting geometry and non-stick coating
- Automatic blade retraction

Replacement parts:

- Art.-No. 4941 5 1: Blade for plastic cutter 35 mm
- Art.-No. 4941 5 10: blade axle for plastic pipe cutter ICS



Article No.	Article Description	QTY
4941 5 35	PLASTIC PIPE CUTTER 35 MM	1
4941 5 1	SPARE BLADE F.PLST.CUTTER 35MM	1
4941 5 10	BLADE SPINDLE F.PLST.CUTTER	1

Plastic Pipe Cutter 42 mm

- Body and handle made from sturdy magnesium die-cast material, very light and sturdy
- easier, faster and more precise one-hand cutting of plastic and composite pipes as a result of progressive geared guiding of the blade feed
- blade protected in the body to prevent injury and protect the blade
- ICS system provides simple blade replacement without the need for tools
- Stainless steel blade of highest quality and service life with optimal cutting geometry and non-stick coating
- One-hand rapid retraction of the blade
- ergonomic two-component handle, rests safely and comfortably in the hand

Replacement parts:

- Art.-No. 4941 5 2: Blade for plastic cutter 42 mm
- Art.-No. 4941 5 10: Blade axle for plastic pipe cutter



Your Advantage / Benefit

- smooth cutting as a result of optimal power transmission
- sturdy top quality
- replacement of blade without the need for tools

Application



Article No.	Article Description	QTY
4941 5 42	PLASTIC PIPE CUTTER 42MM	1
4941 5 2	SPARE BLADE F.PLAST.CUTT.42MM	1
4941 5 10	BLADE SPINDLE F.PLST.CUTTER	1

Related Products

- **Pipe Deburrer**
10 – 56 mm
Art.-No. 4941 10 56



- **Fine Knitting Gloves Duo-Grip**
Art.-No. 5405 5 117 9



- **Ratchet-Bending_set**
Art.-No. 4942 7



Plastic Pipe Cutter 63 mm

- Body and handle made from sturdy magnesium die-cast material, very light and sturdy
- easier, faster and more precise one-hand cutting of plastic and composite pipes as a result of progressive geared guiding of the blade feed
- with pipe approach system which can be set in 2 positions:
 - for pipes from 50 mm to 63 mm
 - for pipes up to and including 50 mm
- Blade protected in the body to prevent injury and protect the blade
- ICS system provides simple blade replacement without the need for tools
- Stainless steel blade of highest quality and service life with optimal cutting geometry and non-stick coating
- One-hand rapid retraction of the blade
- ergonomic two-component handle, rests safely and comfortably in the hand

Replacement parts: • Art.-No. 4941 5 3: Blade for plastic cutter 63 mm

- Art.-No. 4941 5 10: blade axle for plastic pipe cutter ICS



Article No.	Article Description	QTY
4941 5 63	PLASTIC PIPE CUTTER 63 MM	1
4941 5 3	SPARE BLADE F.PLAST.CUTT.63 MM	1
4941 5 10	BLADE SPINDLE F.PLST.CUTTER	1

Poly-Cut cutting off and chamfering device

- Pipe cutting and chamfering device made of metal for right-angled cutting off and chamfering plastic pipes made of ABS, PB, PE, PE-HD, PE-X, PVC, PVDF
- Cutting and chamfering plastic pipes in one operation
- Infinitely adjustable to compensate for and adapt to pipe tolerances
- Clamp inserts which are easy to change for central clamping of the pipes
- Cutting and chamfering tool made of hardened steel with optimum cutting geometry and long service life
- For pipe diameters 50 – 110 mm

Article No.	Article Description	QTY
4941 50 110	P.C.CUTT.OFF/CHAMF.DEVICE CUT	1

Scope of delivery:

- Quick-clamping device Ø 110 mm
- 2x clamp inserts Ø 50 mm
- 2x clamp inserts Ø 75 mm
- Cutting and chamfering tool
- Storage case



Basin Cock Wrench

- Wrench size: 10 - 32 mm
- Length: 275 mm

Article No.	Article Description	QTY
4666 3 10 32	BASIN COCK WRENCH 10X32MM	1



Pipe Gripping Pliers

- Coated handle
- With adjustable joint

Article No.	Article Description	QTY
4666 3 225	PIPE GRIPPING PLIERS 225MM	1



Fitting Pliers

- 90° - 1"
- Changeable jaws

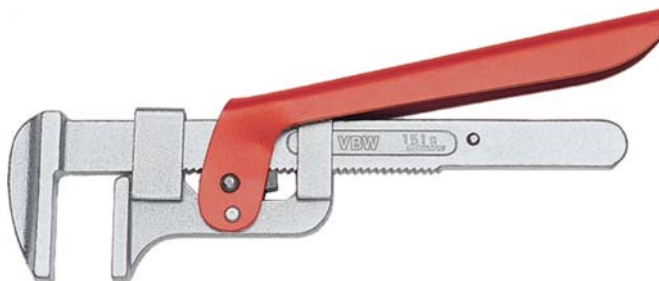
Article No.	Article Description	QTY
4663 315	FITTING PLIERS 90° 1" 315MM	1
4663 315 1	REPL.JAWS F. FITTING PLIERS	1



Quick-Action Fitting Wrench

- Smooth jaws
- Quick and easy adjustment
- Clamping wings made of sheet steel
- Chrome-vanadium-steel, forged
- Total length: 260 mm
- Range: 75 mm

Article No.	Article Description	QTY
4663 260	QUICK-ACTION FITT.WRENCH 260MM	1



Four-Way Socket Wrench

- 7 functions
- 4x external hexagon for stop-cock extensions: 3/8", 1/2", 3/4" and 1" for fitting and removing of radiator valves and return flow fittings
- 3x internal threads for hanger bolts M8, M10 and M12 e.g. wash stand fixings
- powder coated
- special steel



Article No.	Article Description	QTY
4666 3 200 200	FOUR-WAY SOCK.WRENCH 200X200MM	1

Special Plumbing Wrench

- ideally suited for areas that are hard to reach
- for use in sanitary fittings installation
- rapid installation of wash stand fixings and angle valves
- including mount for screwing in hanger bolts M10 with centre section
- extended lever arm as a result of adjustable mount in the centre section
- Special steel



Article No.	Article Description	QTY
4666 3 17 19	SPECIAL PLUMBING WRENCH 17X19	1

Screwdriver

- with external hexagon drive in accordance with DIN 3126 / ISO 1173-C6.3
- for hand actuation and electric screwdrivers
- for screwing in hanger bolts without causing damage
- ideally suited for screwed fittings in craft use and industry
- sand-blasted
- special steel



Article No.	Article Description	QTY
4666 3 8	SCREWDRIVER BIT M8	1
4666 3 10	SCREWDRIVER BIT M10	1
4666 3 12	SCREWDRIVER BIT M12	1

Screwdriver with Bit Intake

- magnetic hanger bolt screwdriver with 1/4" bit mount for battery drivers
- for screwing hanger bolts in and out without damage
- Special steel



Article No.	Article Description	QTY
4666 3 14 8	1/4"SCREWDRIVER BIT M8	1
4666 3 14 10	1/4"SCREWDRIVER BIT M10	1

Spud Bits Set

- 2-part

Article No.	Article Description	QTY
4666 4 2	SPUD BITS+RATCHET 1/2" 2-PART	1

Included in delivery:

- 1x Art. No. 4666 4 Socket ratchet 1/2"
- 1x Art. No. 4666 4 4 Universal spud bit, 4-steps: 3/8" - 1/2", 3/4" - 1"



Spud Bits Set - Accessories

Art.-No. 4666 43:

- Gas step wrench 1/2", 3/4", 1"

Art.-No. 4666 44:

- Spud bit 3/8", 1/2", 3/4", 1"

Article No.	Article Description	QTY
4666 4 3	GAS STEP BIT 3 SETTINGS	1
4666 4 4	SPUD BIT 4 SETTING	1
4666 4	SOCKET RATCHET 1/2"	1
4666 4 1	SQUARE F. SOCKET RATCHET 1/2"	1



4666 4 3



4666 4 4



4666 4

Valve Fix

- Extractor tool for eccentric and standard drain valve



4666 1 1

4666 1 2

Article No.	Article Description	QTY
4666 1 1	VALVE FIX	1
4666 1 2	VALVE FIX-BATH TUB ADAPTER	1

Washstand Assembly Set

- 6-part
- Universally applicable tool for professional assembly
- Ideal operation also at tight spaces
- Well-arranged specific tools which enable assembly and disassembly of most common water tap mixing batteries of various manufacturers
- Makes protective works possible
- Due to a specific nut the eccentrics can be screwed in and screwed off at tightest spaces
- The driving tool is appropriate for the intake of the special wrenches and enables the screwing in and off of stud screws M8 and M10

Article No.	Article Description	QTY
4666 2 6	WASHSTAND ASSEMBLY SET 6-PART	1

Included in set:

- 1x Driving tool with universal intake
- 1x Special wrench for mixing batteries SW 9
- 1x Special wrench for mixing batteries SW 10
- 1x Special wrench for mixing batteries SW 13
- 1x Counter-support for disassembly and assembly of fittings
- 1x Special nut for 3/4" connection eccentric to mixing batteries



S-Connection Assembly Tool

- For universal driving tools
- No damage of S-connection threads

Article No.	Article Description	QTY
4666 2 3	S-CONNECTION-ASSEMBLY TOOL	1



Stud Screw Wrench - Universal Driving Tool

- Pivoted double-end wrench for stud screws M8 and M10
- Several rollers in the body of the wrench get jammed towards tightening and loosening direction in order to actuate the driving process
- No time-consuming countering of two nuts with the bolt and no damages of the threads caused by driving with pliers

Article No.	Article Description	QTY
4666 2 8 10	DRIVING TOOL M8/M10	1



Fitting Wrench

- Extra long, for the use with universal driving tools

Article No.	Article Description	QTY
4666 2 9	FITTING WRENCH LONG SW 9	1
4666 2 10	FITTING WRENCH LONG SW 10	1
4666 2 11	FITTING WRENCH LONG SW 11	1
4666 2 12	FITTING WRENCH LONG SW 12	1
4666 2 13	FITTING WRENCH LONG SW 13	1



Assembly Tool for Drain Valves

- For the use with universal driving tools

Article No.	Article Description	QTY
4666 2 2	ASSEMBLY TOOL F. DRAIN VALVES	1



Water Tap - Milling Cutter Set

- Metal box with 6 storing trays for spare seals

Article No.	Article Description	QTY
4666 5 141	WAT.TAP MILL.SET 1/4"-1", 6-PA	1

Included in set:

- 1x Water tap milling cutter, cylindric form
- 1x Milling cutter 1/4" x 12 mm AD
- 1x Milling cutter 3/8" x 14 mm AD
- 1x Milling cutter 1/2" x 17 mm AD
- 1x Milling cutter 3/4" x 24 mm AD
- 1x Milling cutter 1" x 28 mm AD



Milling Cutter Tools

- For precise finish cutting of valve seats at untight water taps
- Adjustable cutting pressure by spring and adjusting screws
- Suitable for all fittings due to cylindrically stepped thread
- Replaceable milling cutter



Article No.	Article Description	QTY
4666 5	WATER TAP MILLING TOOL	1

Milling Cutter

Article No.	Article Description	QTY
4666 5 1	MILLING CUTTER 1" X 28MM A.D.	1
4666 5 12	MILLING CUTTER 1/2"X17MM A.D.	1
4666 5 14	MILLING CUTTER 1/4"X12MM A.D.	1
4666 5 34	MILLING CUTTER 3/4"X24MM A.D.	1
4666 5 38	MILLING CUTTER 3/8"X14MM A.D.	1



Control pressure testing pump

- Corrosion-resistant, powder coated sheet steel container with a capacity of max. 12 l
- For quick and precise pressure and leak testing of pipeline systems, tanks and pressure vessels
- Low-wear, warp resistant pressure piston made of brass
- For liquids with a pH value of 7 - 12
- Pressure and leak testing of water, oil or glycol up to a temperature of 60 °C and a viscosity of ≤ 1.5 MPa
- Operating lever can be locked as a carrying handle
- Double-valve system with stainless steel ball for reliable pressure build-up
- High pressure hose with textile insert and 1/2" connection



Article No.	Article Description	QTY
4666 6 100	CONTROL PRESSURE TESTING PUMP	1

E-Control electrical pressure test pump

- For quick and precise pressure and leak testing of pipeline systems, tanks and pressure vessels
- Particularly suitable for large systems
- Self-priming high power piston pump with low-wear pressure piston made of stainless steel, for high flow rate (6.5 l/min) and long service life
- Pressure limit adjustable in 6 steps to the required pressure in the pipeline system / vessel (10 – 60 bar / 1 – 6 MPa / 145 – 870 psi)
- For liquids with a pH of 7 – 10, pressure and leak testing of water, aqueous solutions and emulsions at a temperature of up to 60 °C and a viscosity of ≤ 1.5 MPa
- Damped, glycerine filled pressure gauge 60 bar / 870 psi, high pressure hose with textile insert reduced measurement error
- Suction hose with a filter to draw up out of containers; connection to a tube valve is also possible
- High-resolution pressure gauge up to 16 bar / 1.6 MPa to read a pressure change of 0.1 bar / 0.01 MPa for leak testing according to DIN 1988



Article No.	Article Description	QTY
4666 6 200	E-CONTROL PRESS.TEST PUMP	1

Solar Control filling and flushing unit

- Ideal for filling, flushing and ventilating solar systems, underfloor / wall surface heating and geothermal plants
- Flushing, filling and bleeding in a single operation
- Suitable for heat transfer liquid, antifreeze, water, aqueous solutions and emulsions
- Mounted on a sturdy, mobile frame for a safe erection and transport
- Removable 30 l plastic container with large opening to make it easy to fill and clean. Thanks to the integrated shut-off valve, it is possible to change the container at any time
- Fine filter with large sight glass in the suction line, making it easy to detect air in the circuit as well as deposited contamination

Art.-No. 4666 60:

- Self-priming centrifugal pump for various media such as heat transfer liquid, antifreeze, water and aqueous solutions
- Powerful 860 Watt motor
- Supply pressure ≤ 5.5 bar/ 0.55 MPa / 80 psi
- Feed rate ≤ 36 l/min, at 40 m lift 16 l/min
- Temperature of liquid (constant load) ≤ 60 °C, pH of liquids 7 – 8
- 2 transparent textile hoses with 3/4" connections each 3 m long are included as suction and return lines

Art.-No. 4666 80:

- Dry, self-priming impeller pump for various media such as heat transfer liquid, antifreeze, water, aqueous solutions, mineral and vegetable oils, emulsions, and detergents
- Powerful 1,000 Watt motor
- Supply pressure ≤ 6.5 bar/ 0.65 MPa / 94 psi
- Feed rate ≤ 27 l/min, at 40 m lift 18 l/min
- Temperature of liquid (constant load) ≤ 80 °C, pH of liquids 7 – 8
- 2 textile hoses with 3/4" connections, each 3 m long, are included as suction and return lines



Article No.	Article Description	QTY
4666 60	E-FILL.AND FLUSH.UNIT K 60	1
4666 80	E-FILL.AND FLUSH.UNIT I 80	1

Ortem 22 pipe cleaning machine

- For effectively cleaning pipes and ducts Ø 20 – 150 mm
- Continuous undivided drive spindle and clamping jaws mounted outside the housing to completely seal the engine compartment against water and dirt
- Effective, simple, quick working due to high speed of rotation of 740 rpm
- Powerful for all types of dirt contamination, for a working length of up to 70 m (coil 22 mm)
- Variable coil length thanks to quick connect coil sections, no unnecessary turning of long pipe cleaning coils
- Pipe cleaning coil with central core for long-fibre blockages. Coil is also easier to clean after use since coil blocking up with dirt is prevented
- Manual advance for sensitive work
- Sturdy pressure lever for optimal transfer of force and high stability
- Guide hose prevents the coil from whipping around and spreading dirt around
- Easy to transport, only 19 kg. Pressure lever doubles up as a carrying handle
- Connection line with integrated personnel safety switch (PRCD)



Article No.	Article Description	QTY
8955 20 150	PIPE CLEANING MACHINE ORTEM	1

Scope of delivery:

- Drive
- Guide hose
- 5x part coils Ø 22 mm x 4.5 m in coil cage
- 1x straight drill 22
- 1x funnel drill 22
- 1x retrieval drill 22
- 1x serrated cross-blade drill 22/35
- 1x coil separating pin 22/32
- 1 pair of guide gloves
- Sheet steel case for all tools



Mini Ortem manual pipe cleaning device

- For pipes from Ø 20 – 50 mm
- For easy manual work using a user-friendly crank or for drill / screwdriver drill drive (speed of rotation ≤ 300 rpm)
- Ideal for odour traps and tight bends in pipes, the coil fits through strainers in washbasins and sinks
- Handy, compact and light at just 2.9 kg
- The coil is easy to lock into place with a quick release chuck
- Coil drum made of impact-resistant, fibreglass reinforced plastic
- Hot-dip galvanized, highly flexible and specially hardened coil with a macerator head, providing easy feed and a long service life

Article No.	Article Description	QTY
8955 20 50	PIPE CLEANING MACH.MINI-ORTEM	1

Scope of delivery:

- Mini-Ortem pipe cleaning device with coil Ø 8 mm, 7.5 m long with macerator head



Easy-Clean suction and pressure cleaning device

- For rapid and easy removal of pipe blockages
- With short sleeve for washbasins, shower trays and bathtubs, with a long sleeve for toilets
- Adjustable handle at the front for high contact pressure

Artikel-Nr.	Article Description	QTY
8955 100	PIPE CLEANING MACH.EASY-CLEAN	1

Scope of delivery:

- Vacuum and pressure cleaning device
- Short and long sleeve
- Supplied in a box



Camera inspection system

- Compact, light, electronic camera inspection system for high quality images and videos of pipes and ducts Ø 40 – 150 mm
- For battery and mains operation with electronic metre counter and saving option for images and videos to a SD card
- For cost-effective inspection and damage analysis of pipes, ducts, chimneys and other cavities
- Controller with 3.5" colour display and TFT-LCD technology
- Light and handy at just 0.4 kg in weight
- USB-connection for direct connection to a PC or Laptop
- Digital metre counter
- High resolution special colour camera with 2x zoom (Ø 25 mm)
- 8 ultra-bright LEDs ensure a good picture in every situation

Artikel-Nr.	Article Description	QTY
8955 20	CAMERA INSPECTION VISIO 20M.	1
8955 30	CAMERA INSPECTION VISIO 30M.	1

Scope of delivery Art.-No. 8955 20:

- with 3.5" TFT-LCD colour display, SD card slot, USB connection, Video output jack PAL / NTSC, integrated Li-ion battery pack 3.7 V, 2.5 Ah, 2 m connecting cable from **Controller**
- the controller unit to the camera-cable-set, power supply / charger 100 – 240 V, 50 – 60 Hz, 10 W, SD card 4 GB, USB cable, Video cable, in a sturdy case
- S-Color 20 H with high resolution special colour camera Ø 25 mm, 20 m feed cable Ø 4.5 mm, very flexible, on a coil with an electronic metre counter. For small pipe diameters and tight pipe bends Ø (40) 50 – 150 mm **Camera-cable-set**

Scope of delivery Art.-No. 8955 30:

- with 3.5" TFT-LCD colour display, SD card slot, USB connection, Video output jack PAL / NTSC, integrated Li-ion battery pack 3.7 V, 2.5 Ah, 2 m connecting cable from the controller unit to the camera-cable-set, power supply / charger 100 – 240 V, 50 – 60 Hz, 10 W, SD card 4 GB, USB cable, Video cable, in a sturdy case **Controller**
- S-Color 30 H with high resolution special colour camera Ø 25 mm, 30 m feed cable Ø 5.4 mm, on a coil with an electronic metre counter. For pipes Ø 50 – 150 mm **Camera-cable-set**



Electro-Freeze 2 electrical pipe freezing device

- Ideal for repairs to pipelines which have not been emptied. Saves emptying, filling and bleeding. This saves both time and money
- Quick freezing time due to particularly high cooling capacity (e.g. 3/4" steel pipe at 18 °C water temperature in 9 minutes)
- Closed coolant circuit and internal coolant for environmentally friendly working. Coolant R-404A
- Simple to use, adjustment not necessary and can be used anywhere, even in enclosed spaces
- Assembly of freezing heads without tools
- Particularly thin freezing heads make it possible to work in places that are difficult to reach
- Patented freezing heads with specially formed recesses make it easy to attach to various pipe diameters
- LCD digital thermometer with clamping bracket for precise temperature display directly at the freezing points
- Thanks to compact design and weight of 23 kg, it is easy to transport

Art.-No. 4666 54 60:

- Upgrade kit for electrical pipe freezing device Art.-No. 4666 15 42
- Upgrade kit consists of the freezing inserts 54 - 60 mm



Article No.	Article Description	QTY
4666 15 42	PIPE FREEZING DEVICE 15-42MM	1
4666 54 60	UPGRADE FREEZ.DEVICE 54-60MM	1



Uni ACC radial press

universal electronic radial press with automatic forced return

- for radial press connections from Ø 10-108 mm
- presses safely and in seconds
- sturdy and compact design for one-handed operation (4.7 kg)
- automatic return after completed pressing
- swivelling crimping pliers (over 360°) due to housing that rotates
- crimping pliers sit securely due to automatic locking
- high performance universal motor (230V, 50-60Hz, 450W) for consistent and safe crimping
- electro-hydraulic drive with eccentric piston pump, sturdy planetary gear and compact high performance hydraulic system
- tested safety - certified by independent testers
- liability acceptance agreements with the ZVSHK, BHKS and B.S.H.L.
- Liability acceptance agreements apply irrespective of which press fitting system is pressed with the tools



Article No.	Article Description	QTY
4946 100	UNI ACC RADIAL PR.BASIC PACK	1

scope of delivery:

- drive motor with forced return
- metal case



Battery radial press multi ACC 14.4 V

tough and compact battery driven radial press with automatic forced return

- for radial press connections from Ø 10-108 mm
- presses safely and in seconds
- sturdy and compact design for one-handed operation (4.3 kg)
- automatic return after completed pressing
- swivelling crimping pliers (over 360°) due to housing that rotates
- scrimping pliers sit securely due to automatic locking
- powerful battery motor 14.4 V, 380W) for consistent and safe crimping
- electro-hydraulic drive with eccentric piston pump, sturdy planetary gear and compact high performance hydraulic system
- electronic charge level control with deep discharge protection and charge level display
- tested safety - certified by independent testers
- liability acceptance agreements with the ZVSHK, BHKS and B.S.H.L.
- Liability acceptance agreements apply irrespective of which press fitting system is pressed with the tools



Drinkable water

Gas



Scope of delivery:

- Drive motor 14.4 V, 380V with forced return
- 1 x battery Li-Ion 14.4 V, 3.2Ah
- Quick charger Li-Ion / Ni-Cd
- Metal case

Accessories:

- Art.-No. 4946 201: replacement battery Li-Ion 14,4V 3,2AH
- Art.-No. 4946 202: quick charger Li-Ion 230V
- Art.-No. 4946 203: power supply Li-Ion 230 V; the battery radial press can also be used as a power supply with this adapter



4946 201



4946 202



4946 203

Crimping pliers

System-specific crimping pliers for all common press-fitting systems

- suitable for radial pressing units Uni ACC and Multi ACC and for radial pressing units from other manufacturers, such as REMS, Rothenberger, Ridgid, Novopress, etc.
- precisely fitted and exactly rounded-off, system-specific pressing contours in accordance with the individual press-fitting systems for perfect and system-compliant secure pressing
- drop-forged for the highest quality and long service life
- TÜV tested quality "Made in Germany"
- SHK assumption of liability agreement and suitability confirmation
- Traceability in accordance with EN 1775:2007 - the crimping pliers M, V and UP have a specific marking which leaves an imprint in the pressed fitting. This allows the user, after the crimping process, to check whether suitable crimping pliers have been used.



Drinkable water

Gas



Crimping pliers M

- suitable for grouting the following press fitting systems:
 - **Geberit Mapress:** C-steel, stainless steel, copper, stainless steel gas (15-35mm), copper gas (15-35mm)
 - **+GF+:** press-fit (12-35mm)
 - **Jäger:** Niropress type M
 - **SANHA:** press fittings (12-35mm), Niro-San press system (12-35mm), Niro-San press system gas (12-35mm)

Article No.	Article Description	QTY
4946 2 12	CRIMPING PLIERS M 12	1
4946 2 15	CRIMPING PLIERS M 15	1
4946 2 18	CRIMPING PLIERS M 18	1
4946 2 22	CRIMPING PLIERS M 22	1
4946 2 28	CRIMPING PLIERS M 28	1
4946 2 35	CRIMPING PLIERS M 35	1
4946 2 42	CRIMPING PLIERS M 42	1
4946 2 54	CRIMPING PLIERS M 54	1



Crimping pliers V

- suitable for grouting the following press fitting systems:
 - **Viega:** press tabo, professional press, professional press G, professional press THERM, sanpress, sanpress stainless steel, sanpress stainless steel G
 - **+GF+:** Press-Fit
 - **IBP:** >B·Press, >B·Press gas, >B·Press stainless steel, >B·Press solar
 - **SANHA:** press fittings, Niro-San press system, Niro-San press system Gas

Article No.	Article Description	QTY
4946 3 12	CRIMPING PLIERS V 12	1
4946 3 15	CRIMPING PLIERS V 15	1
4946 3 18	CRIMPING PLIERS V 18	1
4946 3 22	CRIMPING PLIERS V 22	1
4946 3 28	CRIMPING PLIERS V 28	1
4946 3 35	CRIMPING PLIERS V 35	1
4946 3 42	CRIMPING PLIERS V 42	1
4946 3 54	CRIMPING PLIERS V 54	1



Crimping pliers G

- suitable for grouting the following press fitting systems: - **Geberit:** Mepla

Article No.	Article Description	QTY
4946 4 16	CRIMPING PLIERS G 16	1
4946 4 20	CRIMPING PLIERS G 20	1
4946 4 26	CRIMPING PLIERS G 26	1
4946 4 32	CRIMPING PLIERS G 32	1
4946 4 40	CRIMPING PLIERS G 40	1
4946 4 50	CRIMPING PLIERS G 50	1
4946 4 63	CRIMPING PLIERS G 63	1



Crimping pliers UP

- suitable for grouting the following press fitting systems:
 - **UPONOR:** MLC (14-32mm), MLC-D (16-32mm), MLC-G (20-32mm)

Article No.	Article Description	QTY
4946 5 14	CRIMPING PLIERS UP 14	1
4946 5 16	CRIMPING PLIERS UP 16	1
4946 5 18	CRIMPING PLIERS UP 18	1
4946 5 20	CRIMPING PLIERS UP 20	1
4946 5 25	CRIMPING PLIERS UP 25	1
4946 5 32	CRIMPING PLIERS UP 32	1



Crimping pliers U

- suitable for grouting the following press fitting systems:
 - **UPONOR:** Unipipe, Airpipe
 - **Wavin:** K1, Future K2, Tigris, Tigris Alupex, Tigris Blue, Tigris PEX (16-50mm)
 - **Frankish:** alpex F50 professional (16-32mm)
 - **Conel:** CONNECT MULTI 16, 20, 25 (NW 26), 32

Article No.	Article Description	QTY
4946 6 14	CRIMPING PLIERS U 14	1
4946 6 16	CRIMPING PLIERS U 16	1
4946 6 18	CRIMPING PLIERS U 18	1
4946 6 20	CRIMPING PLIERS U 20	1
4946 6 25	CRIMPING PLIERS U 25	1
4946 6 32	CRIMPING PLIERS U 32	1
4946 6 40	CRIMPING PLIERS U 40	1
4946 6 50	CRIMPING PLIERS U 50	1
4946 6 63	CRIMPING PLIERS U 63	1



Crimping pliers TH

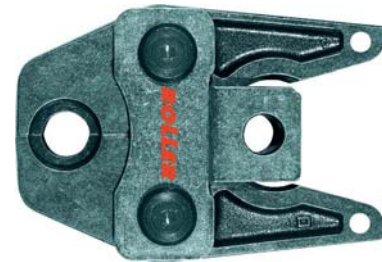
- suitable for grouting the following press fitting systems:
 - **DiaNorm:** HKS Sitec Press
 - **Gabo system technology**
 - **Haka Gerodur:** HAKASAN 16, 20, 26, 32, 40 mm
 - **Heima-press:** 16, 20, 26, 32, 40 mm
 - **Henco:** 14, 16, 18, 20, 26 mm
 - **IPA:** Ipana-Press
 - **KME:** Q-Tec 14, 16, 20 mm
 - **PURMO:** HKS Sitec Press
 - **Zewotherm:** 16, 20, 26, 32, 40 mm
 - **Frankish:** alpex F50 Profi 16, 20, 25, 32 mm
 - **Conel:** CONNECT MULTI 16, 20, 25 (NW 26), 32



Article No.	Article Description	QTY
4946 7 14	CRIMPING PLIERS TH 14	1
4946 7 16	CRIMPING PLIERS TH 16	1
4946 7 17	CRIMPING PLIERS TH 17	1
4946 7 18	CRIMPING PLIERS TH 18	1
4946 7 20	CRIMPING PLIERS TH 20	1
4946 7 26	CRIMPING PLIERS TH 26	1
4946 7 32	CRIMPING PLIERS TH 32	1
4946 7 40	CRIMPING PLIERS TH 40	1
4946 7 50	CRIMPING PLIERS TH 50	1
4946 7 63	CRIMPING PLIERS TH 63	1

Crimping pliers VP

- suitable for grouting the following press fitting systems:
 - **Viega:** sanfix Fosta, sanfix P, sanfix Plus, Viegatherm P
 - **Frankish:** alpex F50 Profi 16, 20, 25, 32 mm
 - **Conel:** CONNECT MULTI 16, 20, 25 (NW 26), 32



Article No.	Article Description	QTY
4946 8 16	CRIMPING PLIERS VP 16	1
4946 8 20	CRIMPING PLIERS VP 20	1
4946 8 25	CRIMPING PLIERS VP 25	1
4946 8 32	CRIMPING PLIERS VP 32	1

Cropping tongs

- sturdy cropping tongs for burr-free separation of threaded rods made from steel and stainless steel up to grade 4.8
- precise separation in seconds
- suitable for Uni ACC and Multi ACC radial presses as well as devices from other manufacturers such as REMS, Rothenberger, Ridgid, Novopress etc.
- partitions can be used for double durability
- drop forged for highest quality
- TÜV tested quality



Article No.	Article Description	QTY
4946 1 6	CROPPING TONGS M 6	1
4946 1 8	CROPPING TONGS M 8	1
4946 1 10	CROPPING TONGS M 10	1
4946 1 12	CROPPING TONGS M 12	1



Multi-Press Mini ACC radial press

- For the quick and safe crimping of all common pipe systems
- Small, compact design with optimum weight distribution and a low total weight of only 2.4 kg with battery
- Extremely easy to handle with a low overall length of just 34 cm including the crimping tongs
- Especially lightweight mini crimping tongs due to a special arrangement of the crimping tong attachment
- With forced operation, charge status indicator and automatic return once the crimping operation is complete
- Robust, powerful electrohydraulic drive with robust planetary gear
- Reliable, powerful 14.4V battery motor, 420 W output
- Electronic charging status indicator with deep discharge protection and 2-colour LED charging status indicator



Article No.	Article Description	QTY
4946 300	RADIAL PRESS MINI ACC BASIC LI	1
4946 201	REPL.BATT.LI-ION 14.4V 3.2AH	1
4946 202	QUICK CHARGER LI-ION 230 V	1
4946 203	POWER SUPPLY LI-ION 230 V	1

Scope of delivery:

- Drive motor 14.4V, 380W with forced return
- 1 x Li-ion battery 14.4V, 1.6 Ah
- High-speed charger Li-ion/Ni-Cd
- Metal case

Accessories:

- Art.-No. 4946 201: Replacement Li-ion battery 14.4V 1.6 Ah
- Art.-No. 4946 202: high-speed charger Li-ion 230V
- Art.-No. 4946 203: Li-ion 230V power supply, cordless radial press can therefore also be used with mains power supply



Crimping pliers Mini

System-specific crimping pliers for all common press-fitting systems

- suitable for Multi ACC radial presses
- precisely fitted and exactly rounded-off, system-specific pressing contours in accordance with the individual press-fitting systems for perfect and system-compliant secure pressing
- drop-forged for the highest quality and long service life
- TÜV tested quality "Made in Germany"
- SHK assumption of liability agreement and suitability confirmation
- Traceability in accordance with EN 1775:2007 – the crimping pliers M, V and UP have a specific marking that leaves an impression in the pressed fitting. This allows the user, after the crimping process, to check whether suitable crimping pliers have been used



Drinkable water

Gas



Crimping pliers Mini M

- Suitable for compression with the following press fitting systems:
- **Geberit Mapress:** C-steel, stainless steel, copper, stainless steel gas (15 - 35 mm), copper gas (15 - 35 mm)
- **+GF+:** Press-Fit (12 - 35 mm)
- **Jäger:** Niropress Type M
- **SANHA:** Press fittings (12 - 35 mm), Niro-San Press System (12 - 35 mm), Niro-San Press System Gas (12 - 35 mm)

Article No.	Article Description	QTY
4946 9 12	CRIMPING PLIERS MINI M12	1
4946 9 15	CRIMPING PLIERS MINI M15	1
4946 9 18	CRIMPING PLIERS MINI M18	1
4946 9 22	CRIMPING PLIERS MINI M22	1
4946 9 28	CRIMPING PLIERS MINI M28	1
4946 9 35	CRIMPING PLIERS MINI M35	1



Crimping pliers Mini V

- Suitable for compressing of the following press fitting systems:
- **Viega:** Presstabo, Profipress, Profipress G, Profipress THERM, Sanpress, Sanpress Inox, Sanpress Inox G
- **+GF+:** Press-Fit
- **IBP:** Press, Press Gas, Press Inox, Press Solar
- **SANHA:** Press fittings, Niro-San Press System, Niro-San Press System Gas

Article No.	Article Description	QTY
4946 10 12	CRIMPING PLIERS MINI V12	1
4946 10 15	CRIMPING PLIERS MINI V15	1
4946 10 18	CRIMPING PLIERS MINI V18	1
4946 10 22	CRIMPING PLIERS MINI V22	1
4946 10 28	CRIMPING PLIERS MINI V28	1
4946 10 35	CRIMPING PLIERS MINI V35	1



Crimping pliers Mini G

- Suitable for the compression of the following press-fitting systems:
- Geberit: Mepla

Article No.	Article Description	QTY
4946 11 16	CRIMPING PLIERS MINI G16	1
4946 11 20	CRIMPING PLIERS MINI G20	1
4946 11 26	CRIMPING PLIERS MINI G26	1
4946 11 32	CRIMPING PLIERS MINI G32	1
4946 11 40	CRIMPING PLIERS MINI G40	1



Crimping pliers Mini UP

- Suitable for compression with the following press fitting systems:
- **UPONOR:** MLC (14 - 32 mm), MLC-D (16 - 32 mm), MLC-G (20 - 32 mm)



Article No.	Article Description	QTY
4946 12 14	CRIMPING PLIERS MINI UP14	1
4946 12 16	CRIMPING PLIERS MINI UP16	1
4946 12 18	CRIMPING PLIERS MINI UP18	1
4946 12 20	CRIMPING PLIERS MINI UP20	1
4946 12 25	CRIMPING PLIERS MINI UP25	1
4946 12 32	CRIMPING PLIERS MINI UP32	1

Crimping pliers Mini U

- Suitable for compression with the following press fitting systems:
- **UPONOR:** Unipipe, Airpipe
- **Wavin:** K1, Future K2, Tigris, Tigris Alupex, Tigris Blue, Tigris PEX (16 - 50 mm)
- **Fränkische:** Alpex F50 Professional (16 - 32 mm)
- **Conel:** CONNECT MULTI 16, 20, 25 (NW 26), 32



Article No.	Article Description	QTY
4946 13 14	CRIMPING PLIERS MINI U14	1
4946 13 16	CRIMPING PLIERS MINI U16	1
4946 13 18	CRIMPING PLIERS MINI U18	1
4946 13 20	CRIMPING PLIERS MINI U20	1
4946 13 25	CRIMPING PLIERS MINI U25	1
4946 13 32	CRIMPING PLIERS MINI U32	1
4946 13 40	CRIMPING PLIERS MINI U40	1

Crimping pliers Mini TH

- Suitable for compression with the following press fitting systems:
- **DiaNorm:** HKS Sitec Press
- **Gabo Systemtechnik**
- **Haka Gerodur:** HAKASAN 16, 20, 26, 32, 40 mm
- **Heima-press:** 16, 20, 26, 32, 40 mm
- **Henco:** 14, 16, 18, 20, 26 mm
- **IPA:** Ipana-Press
- **KME:** Q-Tec 14, 16, 20 mm
- **PURMO:** HKS Sitec Press
- **Zewotherm:** 16, 20, 26, 32, 40 mm
- **Fränkische:** Alpex F50 Professional 16, 20, 25, 32 mm
- **Conel:** CONNECT MULTI 16, 20, 25 (NW 26), 32



Article No.	Article Description	QTY
4946 14 14	CRIMPING PLIERS MINI TH14	1
4946 14 16	CRIMPING PLIERS MINI TH16	1
4946 14 17	CRIMPING PLIERS MINI TH17	1
4946 14 18	CRIMPING PLIERS MINI TH18	1
4946 14 20	CRIMPING PLIERS MINI TH20	1
4946 14 26	CRIMPING PLIERS MINI TH26	1
4946 14 32	CRIMPING PLIERS MINI TH32	1
4946 14 40	CRIMPING PLIERS MINI TH40	1

Crimping pliers Mini TH

- Suitable for compression with the following press fitting systems:
- **DiaNorm:** HKS Sitec Press
- **Gabo Systemtechnik**
- **Haka Gerodur:** HAKASAN 16, 20, 26, 32, 40 mm
- **Heima-press:** 16, 20, 26, 32, 40 mm
- **Henco:** 14, 16, 18, 20, 26 mm
- **IPA:** Ipana-Press
- **KME:** Q-Tec 14, 16, 20 mm
- **PURMO:** HKS Sitec Press
- **Zewotherm:** 16, 20, 26, 32, 40 mm
- **Fränkische:** Alpex F50 Professional 16, 20, 25, 32 mm
- **Conel:** CONNECT MULTI 16, 20, 25 (NW 26), 32



Article No.	Article Description	QTY
4946 14 14	CRIMPING PLIERS MINI TH14	1
4946 14 16	CRIMPING PLIERS MINI TH16	1
4946 14 17	CRIMPING PLIERS MINI TH17	1
4946 14 18	CRIMPING PLIERS MINI TH18	1
4946 14 20	CRIMPING PLIERS MINI TH20	1
4946 14 26	CRIMPING PLIERS MINI TH26	1
4946 14 32	CRIMPING PLIERS MINI TH32	1
4946 14 40	CRIMPING PLIERS MINI TH40	1

Mini cutting pliers

- Robust cutting pliers for cutting threaded rods made of steel and stainless steel without burrs, up to strength category 4.8
- Accurate cutting in seconds
- suitable for Multi-Press Mini ACC radial press
- Cutting inserts can be rotated to give twice the service life
- Drop-forged for highest quality
- TÜV certified quality



Article No.	Article Description	QTY
4946 1 8 1	MINI CUTTING PLIERS M8	1
4946 1 10 1	MINI CUTTING PLIERS M10	1

Z1 intermediate pliers for press ring 45°

- To drive the 45° press rings
- Suitable for all ROLLER'S radial press, except radial press Multi-Press Mini ACC

Article No.	Article Description	QTY
4946 1 100	INTERMEDIATE PLIERS Z1	1



Z1 intermediate mini pliers for press ring 45°

- To drive the 45° press rings only with the ROLLER's radial press Multi-Press Mini ACC

Article No.	Article Description	QTY
4946 1 200	INTERMEDIATE MINI PLIERS Z1	1



Metal case for 45° press ring

- For storing and transporting up to 6 press rings 45° as well as the Z1 intermediate pliers and Mini Z1 intermediate pliers

Article No.	Article Description	QTY
4946 1 300	METAL CASE FOR PRESS RING 45°	1



Press ring 45° V

- Press rings for places that are difficult to reach, e.g. in front wall mounting walls, gaps in wall, exposed pipes and tunnels
- Particularly suitable for renovation work in existing installations
- Suitable for pressing the following press fitting systems:
 - **Viega:** Presstabo, profi press, profi press G, profi press THERM, sanpress, sanpress Inox, sanpress Inox G
 - **+GF+:** Press-Fit
 - **IBP:** Press, Press Gas, Press Inox, Press Solar
 - **SANHA:** Pressfittings, Niro-San Presssystem, Niro-San Presssystem Gas

Article No.	Article Description	QTY
4946 3 12 45	PRESS RING V 12 45°	1
4946 3 15 45	PRESS RING V 15 45°	1
4946 3 18 45	PRESS RING V 18 45°	1
4946 3 22 45	PRESS RING V 22 45°	1
4946 3 28 45	PRESS RING V 28 45°	1
4946 3 35 45	PRESS RING V 35 45°	1



Press ring 45° M

- Press rings for places that are difficult to reach, e.g. in front wall mounting walls, gaps in wall, exposed pipes and tunnels
- Particularly suitable for renovation work in existing installations
- Suitable for pressing the following press fitting systems:
 - **Geberit Mapress:** C-steel, stainless steel, copper, stainless steel gas (15 – 35 mm), copper gas (15 – 35 mm)
 - **+GF+:** Press-Fit (12 – 35 mm)
 - **Jäger:** Niropress Type M
 - **SANHA:** Pressfittings (12 – 35 mm), Niro-San Presssystem (12 – 35 mm), Niro-San Presssystem Gas (12 – 35 mm)

Article No.	Article Description	QTY
4946 2 12 45	PRESS RING M 12 45°	1
4946 2 15 45	PRESS RING M 15 45°	1
4946 2 18 45	PRESS RING M 18 45°	1
4946 2 22 45	PRESS RING M 22 45°	1
4946 2 28 45	PRESS RING M 28 45°	1
4946 2 35 45	PRESS RING M 35 45°	1



Multi-Press Mini S 22V ACC

Handy, robust battery-powered Mini S radial press with automatic return.

- For radial pressed connections Ø 10 – 40 mm
- Small, compact design with optimum weight distribution
- Pressing process less than 4 sec
- Powerful 22 V Li-ion technology – approx. 390 pressing operations with a single battery charge
- Weighs only 2.6 kg with battery
- Powerful, electro-hydraulic drive
- Integrated LED working light



Article No.	Article Description	QTY
4946P 400	MULTI PRESS MINI S 22V ACC	1

Scope of delivery:

- SET Multi-Press Mini S includes: 1x Multi-Press Mini S 22V ACC drive unit, 1x Li-ion battery 21.6 V, 1.5 Ah, high-speed charger 230 V / 21.6 V (Art. No. 4946 400)
- 1x Art. No. VAROBOXX, size 2, empty (Art. No. 9003 2)



Multi-Press Mini 22V ACC

Handy, robust battery-powered Mini radial press with automatic return

- For radial pressed connections up to Ø 40 mm
- For quick, reliable and economical pressing
- Powerful 22 V Li-ion battery – approx. 390 pressing operations with a single battery charge
- Pressing process less than 4 s
- Compact drive unit with crimping tool V 15, only 31 cm in length
- For powering ROLLER'S Mini crimping tools / press rings 45°
- Weighs only 2.5 kg with battery
- Powerful, electro-hydraulic drive
- Integrated LED working light



Article No.	Article Description	QTY
4946P 500	MULTI PRESS MINI 22V ACC	1

Scope of delivery:

- SET Multi-Press Mini includes: 1× Multi-Press Mini 22 V ACC drive unit, 1× Li-ion battery 21.6 V, 1.5 Ah, high-speed charger 230 V / 21.6 V (Art. No. 4946 500)
- VAROBOXX, size 2, empty (Art. No. 9003 2)



Tool Assortment-Electro, 19-piece

Contents:

Article-No.	Article Description	Quantity
3790 31	AUTOMATIC WIRE STRIPPER/CUTTER	1
3790 53	ELECTR.CABLE KNIFE NO.28H	1
4002 165 5	COMBINAT. PLIERS 165MM 5*	1
4012 160 5	SIDE CUTTER 160MM 5*	1
4032 205 5	LONG NOSE PL.STRAI.205MM 5*	1
4264 31	VOLT.TESTER GS 3MM	1
4269 1	SCREWDRIV.SET MC 1 6-PART	1
4701 25	FLAT CHISEL DIN 6453 25X200MM	1
4722 2 1000	CLUB HAMMER WITH SLEEVE 1000G	1
4765 2	CABLE KNIFE PROFI	1
5422 10	PLASTER CUP ROUND	1
5422 40 1	SPATULA 40MM	1
5701 145 2	JUNIOR HACKSAW	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 19	TOOL ASSORTMENT ELECTRO 19-PCS	1

Tool Assortment Electro Profi, 23-piece

Contents:

Article-No.	Article Description	Quantity
3790 32	WIRE STRIPPER ERGO-MATIC 5*	1
3790 50	CABLE JACKET REMOVER NO.15	1
3790 53	ELECTR.CABLE KNIFE NO.28H	1
4002 165	COMBINATION PLIERS 165MM	1
4012 160	SIDE CUTTER 160MM	1
4032 200	LONGNOSEPLIE.STRAIGHT200MM	1
4260 25	SCREWDRIVER MK 2.5	1
4260 4	SCREWDRIVER MC 4	1
4260 55	SCREWDRIVER MC 5.5	1
4261 1	PH SCREWDRIVER MC 1	1
4261 2	PH SCREWDRIVER MC 2	1
4264 31	VOLT.TESTER GS 3MM	1
4701 25	FLAT CHISEL DIN 6453 25X200MM	1
4711 10	ELECTRICIAN'S CHISEL 10X200MM	1
4717 5 6	POCKET TAPE PROFESSIONAL 5 M	1
4717 22 50	ELECTR.SPIRIT LEVEL 22CM	1
4722 5 1000	CLUB HAMMER 1000G 5*	1
4765 2	CABLE KNIFE PROFI	1
5422 10	PLASTER CUP ROUND	1
5422 40 1	SPATULA 40MM	1
5701 145 2	JUNIOR HACKSAW	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 23	TOOL ASSORT.ELECT.PROFI 23-PCS	1

Wood apprentice tool set, 20 pce.

Contents:

Article-No.	Article Description	Quantity
4229 10	PH-SCREWDRIVER SET STAND.6-PCS	1
4680 180	PINCERS 180MM	1
4717 3 6	POCKET TAPE PROFESSIONAL 3 M	1
4717 40 1	LIGHT-METAL SPIRIT LEVEL 40CM	1
4721 22	CABINETMAKER'S HA.FRENCH 22MM	1
4762 6	FÖRCH KNIFE 18MM RETR.BLADE	1
4774 250 1	TRY SQUARES/MITRE BEECH 250MM	1
4789 1	CHISEL SET 5-PART 10-26MM	1
5702 250	FINE SAW CRANKED+ADJUST.250MM	1
9894 29	'FÖRCH' PENCIL	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 20	TOOL.ASSORT.WOOD APPRENT.21PCE	1

Wood professional tool set, 123 pce.

Contents:

Article-No.	Article Description	Quantity
4229 10	PH-SCREWDRIVER SET STAND.6-PCS	1
4319 100	BIT-ASSORTM.MAXI 100-PART 1/4"	1
4651 240	WATERPUMP PLIERS 250MM	1
4680 180	PINCERS 180MM	1
4717 5 6	POCKET TAPE PROFESSIONAL 5 M	1
4717 40 1	LIGHT-METAL SPIRIT LEVEL 40CM	1
4721 22	CABINETMAKER'S HA.FRENCH 22MM	1
4762 6	FÖRCH KNIFE 18MM RETR.BLADE	1
4774 250 1	TRY SQUARES/MITRE BEECH 250MM	1
4789 1	CHISEL SET 5-PART 10-26MM	1
5509 5500	TWIST DR. BOX RF1,0-10,0 19PCS	1
5702 250	FINE SAW CRANKED+ADJUST.250MM	1
9894 29	'FÖRCH' PENCIL	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 123	TOOL.ASSORT.WOOD APPRENT123PCE	1

Tool Assortment Sanitary, 26-piece

Contents:

Article-No.	Article Description	Quantity
4202N 1	KRAFT-SCREWDR.PASS.BLADE PH 1	1
4202N 2	KRAFT-SCREWDR.PASS.BLADE PH 2	1
4202N 7	KRAFT-SCREWDR.PASS.BLADE LS 7	1
4202N 35	KRAFT-SCREWDR.PASS.BLADE LS3.5	1
4202N 55	KRAFT-SCREWDR.PASS.BLADE LS5.5	1
4264 31	VOLT.TESTER GS 3MM	1
4580 008	DOUBLE FORK SPANNER SET 8 PART	1
4651 240	WATERPUMP PLIERS 250MM	1
4660 1	CORNER PIPE WRENCH 45° S 1"	1
4666 3 10 32	BASIN COCK WRENCH 10X32MM	1
4701 26	FLAT CHISEL DIN 6453 26X250MM	1
4720 2 300	SCHLOSSERHAMMER M.K-HÜLSE 300G	1
4765 2	CABLE KNIFE PROFİ	1
4941 16	MINI-PIPE CUTTER 3-16MM	1
4941 38	TELESCOPIC-PIPE CUTTER 6-38 CU	1
5701 145 2	JUNIOR HACKSAW	1
5850 3	HAND-WIRE BRUSH 3-ROW STEEL	1
8680 30	CONTROL CAB./DEAERATING WRENCH	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH'FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 26	TOOL ASSORTMENT INSTALL.26-PCS	1

Tool Assortment Sanitary Profi, 41-piece

Contents:

Article-No.	Article Description	Quantity
4010 160	SIDE CUTTER 160MM 5*	1
4159 20	HEX-PLUS BP ALLEN KEY SET 9-PA	1
4202N 1	KRAFT-SCREWDR.PASS.BLADE PH 1	1
4202N 2	KRAFT-SCREWDR.PASS.BLADE PH 2	1
4202N 7	KRAFT-SCREWDR.PASS.BLADE LS 7	1
4202N 35	KRAFT-SCREWDR.PASS.BLADE LS3.5	1
4202N 55	KRAFT-SCREWDR.PASS.BLADE LS5.5	1
4264 31	VOLT.TESTER GS 3MM	1
4580 008	DOUBLE FORK SPANNER SET 8 PART	1
4651 240	WATERPUMP PLIERS 250MM	1
4660 1	CORNER PIPE WRENCH 45° S 1"	1
4666 3 10 32	BASIN COCK WRENCH 10X32MM	1
4666 4 2	SPUD BITS+RATCHET 1/2" 2-PART	1
4701 26	FLAT CHISEL DIN 6453 26X250MM	1
4712 300	CENTRE PUNCH DIN 7256 300MM	1
4717 40 1	LIGHT-METAL SPIRIT LEVEL 40CM	1
4720 300	ENGINEER'S HAM.ACC.TO DIN 300G	1
4722 1000	LUMP HAMMER ASH W.HANDLE 1000G	1
4765 2	CABLE KNIFE PROFİ	1
4941 16	MINI-PIPE CUTTER 3-16MM	1
4941 38	TELESCOPIC-PIPE CUTTER 6-38 CU	1
5701 145 2	JUNIOR HACKSAW	1
5701 300	HACKSAW WOOD HANDLE 300MM	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH'FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 41	TOOL ASSORT.INSTA.PROFI 41-PCS	1

Metal apprentice tool set, 38 pce.

Contents:

Article-No.	Article Description	Quantity
4000 160	COMBINATION PLIERS 160MM	1
4159 30	HEX-PLUS ALLEN KEY SET LG 9-PA	1
4202N 91	KRAFT SCREWDRIVER SET 6-PART	1
4580 010	DOUBLE FORK SPANNER SET 10PART	1
4704 10	CENTRE PUNCH DIN 7250 120X10MM	1
4706 2150	SCRIBER	1
4707 3	DRIFT PUNCH DIN 6458B 3X120MM	1
4707 5	DRIFT PUNCH DIN 6458B 5X120MM	1
4710 300	STONE CHISEL DIN7254A 30X300MM	1
4720 2 500	MACHINIST'S HAMMER 500G	1
4740 200 2	FILE FLAT-HAND 200MM CUT 2	1
4744 200 2	FILE ROUND 200MM CUT 2	1
5701 300	HACKSAW WOOD HANDLE 300MM	1
5850 4	HAND-WIRE BRUSH 4-ROW STEEL	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1

Article No.	Article Description	QTY
4998 38	TOOL.ASS.METAL APPRENTICE38PCE	1



Metal professional tool set, 49 pce.

Contents:

Article-No.	Article Description	Quantity
4000 160	COMBINATION PLIERS 160MM	1
4159 30	HEX-PLUS ALLEN KEY SET LG 9-PA	1
4202N 91	KRAFT SCREWDRIVER SET 6-PART	1
4580 010	DOUBLE FORK SPANNER SET 10PART	1
4582 010	OFFSET DOUBLE RING SPAN.SET10P	1
4651 240	WATERPUMP PLIERS 250MM	1
4704 10	CENTRE PUNCH DIN 7250 120X10MM	1
4706 2150	SCRIBER	1
4707 3	DRIFT PUNCH DIN 6458B 3X120MM	1
4707 5	DRIFT PUNCH DIN 6458B 5X120MM	1
4710 300	STONE CHISEL DIN7254A 30X300MM	1
4720 500	ENGINEER'S HAM.ACC.TO DIN 500G	1
4740 200 2	FILE FLAT-HAND 200MM CUT 2	1
4744 200 2	FILE ROUND 200MM CUT 2	1
5701 300	HACKSAW WOOD HANDLE 300MM	1
5850 4	HAND-WIRE BRUSH 4-ROW STEEL	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1

Article No.	Article Description	QTY
4998 49	TOOL.ASS.METAL PROFI 49PCE	1



Trainee Plasterer, Assorted Tools, 53 pieces

Contents:

Article-No.	Article Description	Quantity
4724 1	PLAS.HATCH.STE.PIPE HANDLE600G	1
4760 2	WORKING SCISSOR 200MM	1
4762 6	FÖRCH KNIFE 18MM RETR.BLADE	1
4762 40 10	PK(10)RET.BLADE TYPE1PROF.18MM	1
4773 350	GIPSHOBEL 350MM	1
5422 4	JAPAN FILLER KIT 4-PART	1
5422 10	PLASTER CUP ROUND	1
5422 18	PLASTERES PAN 18CM	1
5422 20 1	SPATULA 20MM	1
5422 40 1	SPATULA 40MM	1
5422 60 1	SPATULA 60MM	1
5422 60 3	PLASTERER'S SPATULA 60MM	1
5422 120 1	TROWEL FOR PLAST.BERNER 120MM	1
5422 140 280 11	FLOAT - RUBBER SPONGE 140X280	1
5702 175	PLASTERBOARD SAW 175MM	1
8761 85 235	HANDSCHL.F.GITTERLEIN 235X85MM	1
8761 93 280 1	GITTERLEINEN P 80 93X280MM	25
8761 115 280 1	GITTERLEINEN P 80 115X280MM	10
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1

Article No.	Article Description	QTY
4998 53	TOOL.ASS.APPRENT./PLAST.53PCE	1



Trainee Carpenter, Assorted Tools, 19 pieces

Contents:

Article-No.	Article Description	Quantity
4714 400	WRECKING BAR 18MM-HEXA 400MM	1
4717 5 6	POCKET TAPE PROFESSIONAL 5 M	1
4724 6	LATTHAMMER M.MAGNET 600G	1
4765 1	KNIFE/SPORT PROFI	1
4774 300 3	SLIDING BEVEL/BEECH 300MM	1
4777 800 315	ANG.F.CA.MAK.MARKI.HOLE800X320	1
4783 140	JOINER'S Mallet 7461 140MM	1
4789 1	CHISEL SET 5-PART 10-26MM	1
5704 28 195 2	KLAPPSÄGE GARTEN	1
5704P 1	JAPANESE SAWS SET 1+3	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 21	TOOL.ASS.APPRENT.CARPEN.19PCE	1

Tool range for electrician's carry set

- Supplied without electrician's tool carry set (Art.-No. 9004 4 10)

Contents:

Article-No.	Article Description	Quantity
3790 4	MULTICORE CABLE END PLIERS 143	1
3790 31	AUTOMATIC WIRE STRIPPER/CUTTER	1
3790 50	CABLE JACKET REMOVER NO.15	1
3790 53	ELECTR.CABLE KNIFE NO.28H	1
3791 6 690	VOLTAGE TESTER DIGITAL AC	1
4002 185	COMBINATION PLIERS 185MM	1
4012 160	SIDE CUTTER 160MM	1
4032 200	LONGNOSEPLIE.STRAIGHT200MM	1
4072 160	CABLE STRIPPER 160MM	1
4072 210 5	CABLE CUTTER 210 5*	1
4256 6	A-HEX. SCREWDRIVER MC SW 6	1
4256 7	A-HEX. SCREWDRIVER MC SW 7	1
4256 8	A-HEX. SCREWDRIVER MC SW 8	1
4256 10	A-HEX. SCREWDRIVER MC SW 10	1
4256 13	A-HEX. SCREWDRIVER MC SW 13	1
4260 25	SCREWDRIVER MK 2.5	1
4260 4	SCREWDRIVER MC 4	1
4260 55	SCREWDRIVER MC 5.5	1
4260 65	SCREWDRIVER MC 6.5	1
4261 1	PH SCREWDRIVER MC 1	1
4261 2	PH SCREWDRIVER MC 2	1
4264 31	VOLT.TESTER GS 3MM	1
4290 1	HOLE PUNCH	1
4319 9	1/4"BI-SAFE+HOLD.RAT.31PCS.5*	1
4379 9	SCREWDRIVER BIT SET 8PCS.5*	1
4650 250	KNIP.COBRWAPO.PLIERS250MM 5*	1
4700 3	ELEC.SPLI.CHIS.W.H.PR.27X250MM	1
4701 25	FLAT CHISEL DIN 6453 25X200MM	1
4711 10	ELECTRICIAN'S CHISEL 10X200MM	1
4713 6 30	CHALK LINE MARKER PP 30M	1
4713 120	CHALK PEN-HOLDER 12.0MM	1
4717 22 50	ELECTR.SPIRIT LEVEL 22CM	1
4720 5 300	ENGINEER HAMMER DIN 300G 5*	1
4722 5 1000	CLUB HAMMER 1000G 5*	1
4740 200 2	FILE FLAT-HAND 200MM CUT 2	1
4741 200 2	FILE TRIANGULAR 200MM CUT 2	1
4742 200 2	FILE SQUARE 200MM CUT 2	1
4743 200 2	FILE HALF-ROUND 200MM CUT 2	1
4744 200 2	FILE ROUND 200MM CUT 2	1
4762 6	FÖRCH KNIFE 18MM RETR.BLADE	1
5422 60	STAINLESS STEEL SPATULA 60MM	1
5509 5500	TWIST DR. BOX RF1.0-10.0 19PCS	1
5701 145 2	JUNIOR HACKSAW	1
9894 32	'FÖRCH'FOLDING METRE STICK 2M	1

Article No.	Article Description	QTY
4998 9003 4 1	TOOL.RANGE CARRY SET ELECTR.	1



Product range of tools for carry set for carpenter

- Design without tool carry set for (art. no. 9004 4 11)

Article No.	Article Description	QTY
4998 9003 4	TOOL.RANGE CARRY SET CARPENTER	1

Contents:

Article-No.	Article Description	Quantity
4000 160	COMBINATION PLIERS 160MM	1
4010 160	SIDE CUTTER 160MM 5*	1
4159 30	HEX-PLUS ALLEN KEY SET LG 9-PA	1
4200 35	MC-SCREWDRIV.PASSING BLADE 3.5	1
4200 45	MC-SCREWDRIV.PASSING BLADE 4.5	1
4200 55	MC-SCREWDRIV.PASSING BLADE 5.5	1
4201 1	MC-PH SCREWDR.PASS.BLADE PH1	1
4201 2	MC-PH SCREWDR.PASS.BLADE PH2	1
4319 9	1/4"BI-SAFE+HOLD.RAT.31PCS.5*	1
4379 9	SCREWDRIVER BIT SET 8PCS. 5*	1
4650 250	KNIPEX COBRA WAPU.PLIERS 250MM	1
4680 200	PINCERS 200MM	1
4692 200	ALL-STEEL SCREW CLAMP 200X100	1
4701 25	FLAT CHISEL DIN 6453 25X200MM	1
4704 10	CENTRE PUNCH DIN 7250 120X10MM	1
4706 150	NEEDLE-POINT COM.150MM DIN6486	1
4717 40	LM-PRECISION-SPIRIT LEVEL 40CM	1
4721 22	CABINETMAKER'S HA.FRENCH 22MM	1
4740 250 2	FILE FLAT-HAND 250MM CUT 2	1
4760 9	COMBI-HOSE SHEARS 190MM	1
4762 6	FÖRCH KNIFE 18MM RETR.BLADE	1
4773 220	HAND PLANE RALI 220	1
4774 0 150	MORTISE GAUGE BEECH 0-150MM	1
4774 250	TRY SQUARES/MITRE ROSEWOOD.250MM	1
4774 250 4	MITRE GAUGE ROSEWOOD 250MM	1
4774 300 2	SLIDING BEVEL/PALI. 300MM	1
4780 10	CHISEL 5139B 10MM	1
4780 12	CHISEL 5139B 12MM	1
4780 16	CHISEL 5139B 16MM	1
4780 20	CHISEL 5139B 20MM	1
4780 26	CHISEL 5139B 26MM	1
5509 5504	BULLET DRILL SET 1-10 19PIECES	1
5670 15	FORSTNER BIT 15	1
5670 25	FORSTNER BIT 25	1
5701 145 2	JUNIOR HACKSAW	1
5704 16 265	PRECISION SAW CARPENTER 265MM	1
5924 2	GRIND.BLOCK - CORK 120X60X35MM	1
6850 3 05	WOOD-COLD-GLUE D3/D4 0.5KG	1
8680 20	BITTING GAUGE UNIVERSAL	1
9894 29	'FÖRCH' PENCIL	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1



Tool kit for hybrid/electric vehicles **VAROBOXX**

- Dipped insulation in accordance with DIN EN 60900
- With foam insert in robust plastic case
- Special tool-grade steel

Contents: Art.-No. 9003 4998 1001:

Article-No.	Article-Description	Quantity
4998 1001	TOOL BOX F.HYBRID 13PCE 1000V	1
9003 2	VAROBOXX SIZE:2 EMPTY	1
9004 4998 1001	TOOL BOX 13-PCE INSERT 1000V	1

Contents: Art.-No. 4998 1001:

Article-No.	Article-Description	Quantity
3791 6 690	VOLTAGE TESTER DIGITAL AC	1
4260 55	SCREWDRIVER MC 5.5	1
4261 2	PH SCREWDRIVER MC 2	1
4446 1 38 8	3/8"HEX SOCK.WR.INS.SW8 1000V	1
4446 1 38 10	3/8"BIHEX SO.WR.INS.SW10 1000V	1
4446 1 38 11	3/8"BIHEX SO.WR.INS.SW11 1000V	1
4446 1 38 12	3/8"BIHEX SO.WR.INS.SW12 1000V	1
4446 1 38 13	3/8"BIHEX SO.WR.INS.SW13 1000V	1
4446 1 38 14	3/8"BIHEX SO.WR.INS.SW14 1000V	1
4446 38 1	3/8" REVERS.RATCH. W.B.A 1000V	1
4446 38 1 1	3/8" T-HANDLE SO.SP.W.S.A	1
4594 10	CURVED RING WRENCH SW 10	1
4594 12	CURVED RING WRENCH SW 12	1

Article No.	Article Description	QTY
9003 4998 1001	VAROBOXX HYBRID 13-PCE	1



Tool box for hybrid/electric vehicles

- Dipped insulation in accordance with DIN EN 60900
- With foam insert in robust plastic case
- Special tool-grade steel

Contents:

Article-No.	Article Description	Quantity
5404 500 3	YEL/BLA.BAR.TAPE CROS.HA.500MM	1
4651 1 240	WAT.PU.PLIE.PART.ISO.240MM	1
4012 2 180	SIDE CUTT.PART.ISOL.180MM	1
4002 2 205	COM.PLIERS FULL.ISOL.205MM	1
4260 25	VDE-SCREWDRIVER MK 2.5	1
4260 35	VDE-SCREWDRIVER MC 3.5	1
4261 1	VDE-PH SCREWDRIVER MK 1	1
4261 3	VDE-PH SCREWDRIVER MC 3	1
4262 4 25	TX-SCREW DRIVER TX 25	1
4446 38 1	3/8" REVERS.RATCH. W.B.A 1000V	1
4446 38 250	3/8" EXTENSION 250MM 1000V	1
4012 1 160	SIDE CUTT.PART.ISOL.160MM 1000V	1
4032 1 160 1	FL.PLIE.PAR.ISO.34/160MM 1000V	1
4032 4 200 1	BENT HA-RO.PL.FUL.ISO200 1000V	1
4260 3	VDE-SCREWDRIVER MC 3	1
4260 4	VDE-SCREWDRIVER MC 4	1
4261 2	VDE-PH SCREWDRIVER MC 2	1
4262 4 20	TX-SCREW DRIVER TX 20 1000V	1
4262 4 30	TX-SCREW DRIVER TX 30 1000V	1
4446 38 125	3/8" EXTENSION 125MM 1000V	1
4446 1 38 6	3/8"HEX SOCK.WR.INS.SW6 1000V	1
4446 1 38 7	3/8"HEX SOCK.WR.INS.SW7 1000V	1
4446 1 38 9	3/8"HEX SOCK.WR.INS.SW9 1000V	1
4446 1 38 11	3/8"BIHEX SO.WR.INS.SW11 1000V	1
4446 1 38 13	3/8"BIHEX SO.WR.INS.SW13 1000V	1
4446 1 38 15	3/8"BIHEX SO.WR.INS.SW15 1000V	1
4446 1 38 17	3/8"BIHEX SO.WR.INS.SW17 1000V	1
4446 1 38 19	3/8"BIHEX SO.WR.INS.SW19 1000V	1
4446 1 38 21	3/8"BIHEX SO.WR.INS.SW21 1000V	1
4446 6 38 8	3/8"XZN SCR.DRIV.INS.M8 1000V	1
4446 6 38 12	3/8"XZN SCR.DRIV.INS.M12 1000V	1
4997 6 20 100	SELF CLA.SLEEVE 20X100MM 1000V	1
5404 1001	WARNING SIGN D.HIGH-VOLT.200MM	1
3791 6 690	VOLTAGE TESTER DIGITAL AC	1
4446 1 38 8	3/8"HEX SOCK.WR.INS.SW8 1000V	1
4446 1 38 10	3/8"BIHEX SO.WR.INS.SW10 1000V	1
4446 1 38 12	3/8"BIHEX SO.WR.INS.SW12 1000V	1
4446 1 38 14	3/8"BIHEX SO.WR.INS.SW14 1000V	1
4446 1 38 16	3/8"BIHEX SO.WR.INS.SW16 1000V	1
4446 1 38 18	3/8"BIHEX SO.WR.INS.SW18 1000V	1
4446 1 38 20	3/8"BIHEX SO.WR.INS.SW20 1000V	1
4446 1 38 22	3/8"BIHEX SO.WR.INS.SW22 1000V	1
4446 6 38 10	3/8"XZN SCR.DRIV.INS.M10 1000V	1
4997 6 10 75	SELF CLAMP SLEEVE 10X75MM1000V	1
4993 15	ABS-TOOL TROLLEY 485X350X195	1
5404 1002	PROHIB.SIGN DO NOT SWITCH200MM	1

Article No.	Article Description	QTY
4998 1000	TOOL BOX F.HYBRID 53PCE	1



Tool kit for PSA hybrid/electric vehicles

- Tool assortment specially adapted for PSA
- Dipped insulation in accordance with DIN EN 60900
- With foam insert in robust plastic case
- Special tool-grade steel

Contents Article No. 9003 4998 1002:

Article-No.	Article Description	Quantity
4998 1002	TOOL BOX F.PSA 8-PCE 1000V	1
9003 2	VAROBOXX SIZE:2 EMPTY	1
9004 4998 1002	TOOL BOX PSA INLAY 1000V	1

Contents Article No. 4998 1002:

Article-No.	Article Description	Quantity
4002 2 185	COM. PLIERS FULL ISOL. 185MM	1
4446 1 38 10	3/8" BIHEX SO. WR. INS. SW10 1000V	1
4446 1 38 11	3/8" BIHEX SO. WR. INS. SW11 1000V	1
4446 1 38 12	3/8" BIHEX SO. WR. INS. SW12 1000V	1
4446 1 38 13	3/8" BIHEX SO. WR. INS. SW13 1000V	1
4446 38 1	3/8" REVERS. RATCH. W.B.A 1000V	1
4446 38 125	3/8" EXTENSION 125MM 1000V	1
4592 10	OPEN END WRENCH SW 10	1

Article No.	Article Description	QTY
9003 4998 1002	VAROBOXX HYBRID-PSA 8-PCE	1

