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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 4/4,5/5,5/5,6/7/8/10/11/12/13

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 4/4.5/5.5/5.6/7/8/9/10/11/12/13
- 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:

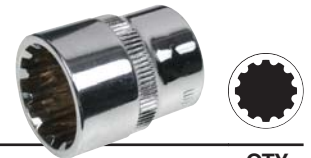
- 3/8" lever switch ratchet 195 mm 4401 38 4
- 3/8" cross slide handle 200 mm 4402 38
- 3/8" articulation piece 55 mm 4407 38
- 3/8" angle extension 125 mm 4405 125
- 3/8" angle extension 250 mm 4405 250
- 3/8" triple+ socket wrench-insert AGR 4431 SW 8/9/10/11/12/13/14/15/16/17/18/19



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



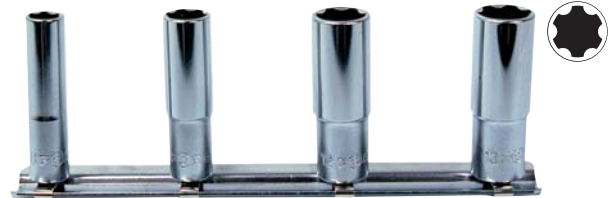
Socket Wrench Ins.1/4" Flank Tech. Strip Connector

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

Article No.	Article Description	QTY
4495 4409	1/4"FORCH-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



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



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

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. 43030 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 deposite 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



4401 14 36 9
4401 38 30 9
4401 12 36 9

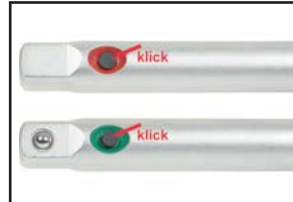
4401 34 9 1

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

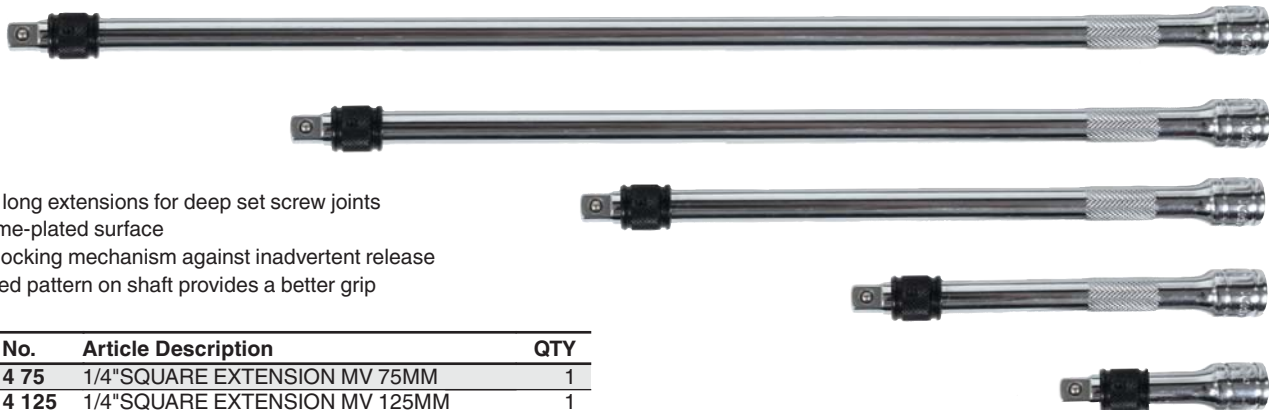
Contents Art.-No. 4419 38 each 1x:

- 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.S.Q.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



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

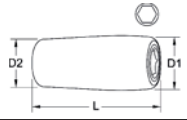


Bit holder 1/4", 2-way insulation

- 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



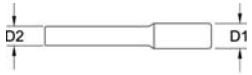
Article No.	Article Description	QTY
4446 14 14	1/4" BIT-ADAPTER 1/4"	1

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



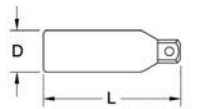
Article No.	Article Description	QTY
4446 38 14 125	3/8" BIT-ADAPTER 1/4" 125MM	1
4446 38 14 250	3/8" BIT-ADAPTER 1/4" 250MM	1

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

- 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



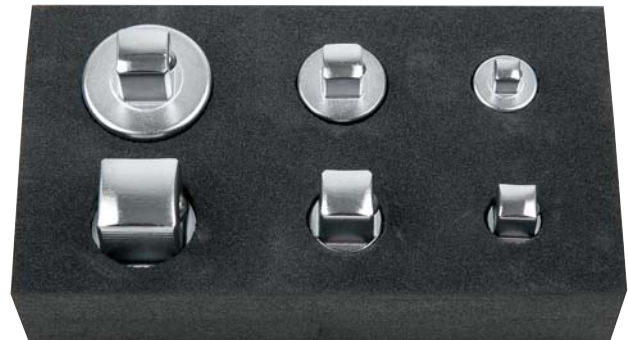
Adapter Set for Socket Wrenches

- 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" **FÖRCH*******

- 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" **FÖRCH*******

- 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" FORCH****



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 FORCH****

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" FORCH****

- 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" FORCH*****

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

Bihexagonal 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 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

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" FORCH****



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

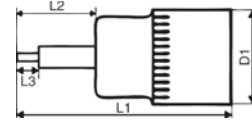
Socket wrench insert TX external 1/2" **ECO**

- 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

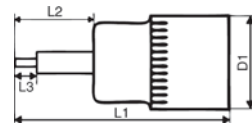
Screwdriver Bit TX Internal 1/4" **FÖRCH*******



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*******

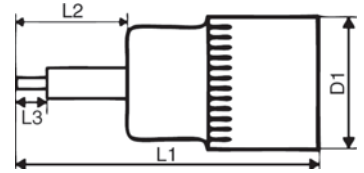
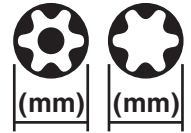


Article No.	Article Description	QTY
4455 10 28 50	1/4"TX-SCREWDRIV.BIT10 28MM 5*	1 z
4455 15 28 50	1/4"TX-SCREWDRIV.BIT15 28MM 5*	1 z
4455 20 28 50	1/4"TX-SCREWDRIV.BIT20 28MM 5*	1 z
4455 25 28 50	1/4"TX-SCREWDRIV.BIT25 28MM 5*	1 z
4455 27 28 50	1/4"TX-SCREWDRIV.BIT27 28MM 5*	1 z
4455 30 28 50	1/4"TX-SCREWDRIV.BIT30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

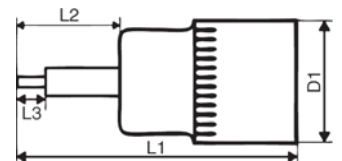
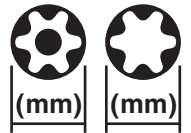


Article No.	Article Description	QTY
4455 10 32	1/4"TX-SCREWDRIV.BIT KB10 32MM	1
4455 10 32 1	1/4"TX-SCREWDRIVER BIT 10 32MM	1
4455 15 32	1/4"TX-SCREWDRIV.BIT KB15 32MM	1
4455 15 32 1	1/4"TX-SCREWDRIVER BIT 15 32MM	1
4455 20 32	1/4"TX-SCREWDRIV.BIT KB20 32MM	1
4455 20 32 1	1/4"TX-SCREWDRIVER BIT 20 32MM	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
15 (3.27)	32	12.5	4	12
20 (3.86)	32	12.5	4	12
25 (4.43)	32	12.5	5	12
27 (4.99)	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.INSN.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



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



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

- 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 FORCH
Art.-No. 4407 12 50



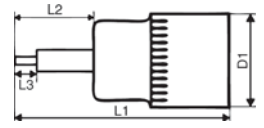
■ Reversible Ratchet FORCH
Art.-No. 4401 12 32 50



■ Square Extension FORCH
Art.-No. 4420 250 50



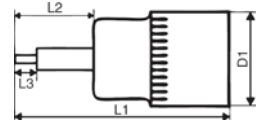
Screw Driver Insert TX Inner 3/8" **FÖRCH*******



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

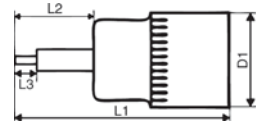
Screwdriver Bit TX Internal 3/8"



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

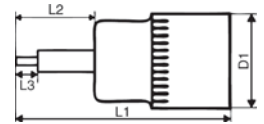
Screwdriver bit TX inside 1/2" **FÖRCH*******



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

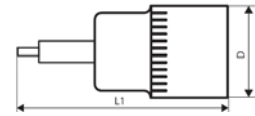
- 1/2" Drive
- Manufacturer Klann



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	

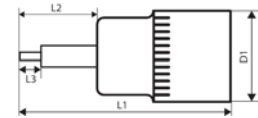
Screwdriver Bit Allen Key 1/4" FORCH****



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

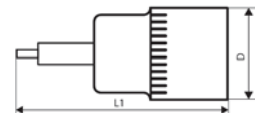
Allen screwdriver bit TX 1/4" FORCH****



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.BIT10 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"

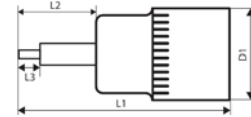


Article No.	Article Description	QTY
4450 3 32	1/4"HEX.SCREW.DR.BIT 3 32MM	1
4450 4 32	1/4"HEX.SCREW.DR.BIT 4 32MM	1
4450 5 32	1/4"HEX.SCREW.DR.BIT 5 32MM	1
4450 6 32	1/4"HEX.SCREW.DR.BIT 6 32MM	1
4450 7 32	1/4"HEX.SCREW.DR.BIT 7 32MM	1
4450 8 32	1/4"HEX.SCREW.DR.BIT 8 32MM	1

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**

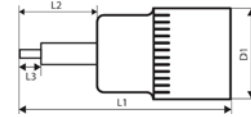
- matt chrome-plated



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	L3 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

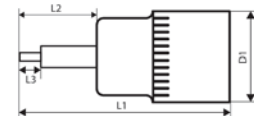
Screwdriver Bit Allen Key 3/8" **FÖRCH******



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.A.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	

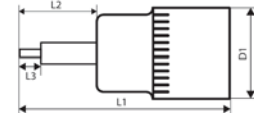
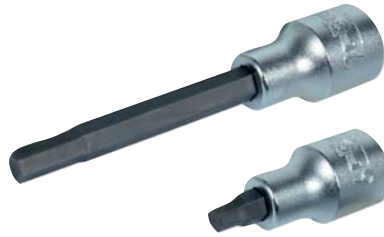
Screwdriver Bit Allen Key 3/8"



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" FORCH*****

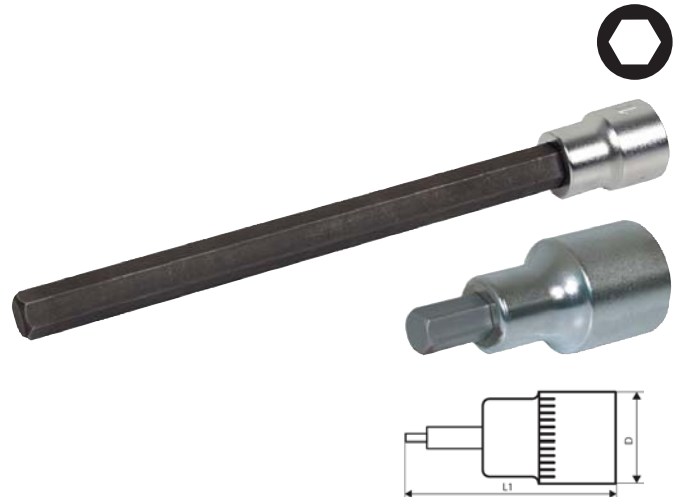


Article No.	Article Description	QTY
4452 5 50	1/2"HEX SCREWDR. BIT 5 50MM 5*	1 z
4452 5 100 50	1/2"HEX SCREWDR. BIT 5 100MM 5*	1 z
4452 6 50	1/2"HEX SCREWDR. BIT 6 50MM 5*	1 z
4452 6 100 50	1/2"HEX SCREWDR. BIT6 100MM 5*	1 z
4452 7 50	1/2"HEX SCREWDR. BIT 7 50MM 5*	1 z
4452 7 100 50	1/2"HEX SCREWDR. BIT7 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. BIT8 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. BIT10 50MM 5*	1 z
4452 10 100 50	1/2"HEX SCREWDR. BIT10 100MM5*	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. BIT12 50MM 5*	1 z
4452 14 50	1/2"HEX SCREWDR. BIT14 50MM 5*	1 z
4452 17 50	1/2"HEX SCREWDR. BIT17 50MM 5*	1 z
4452 19 50	1/2"HEX SCREWDR. BIT19 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

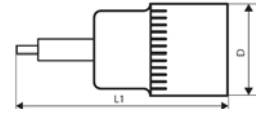
Article No.	Article Description	QTY
4452V 014	VS-1/2"-HEX SCREWDR.INSTERT 14P	1

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"

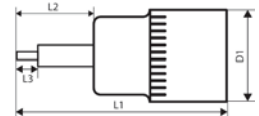


Article No.	Article Description	QTY
4454 10	1/4" 5-TOOTH.SCREWDR.BIT TS10	1
4454 15	1/4" 5-TOOTH.SCREWDR.BIT TS15	1
4454 20	1/4" 5-TOOTH.SCREWDR.BIT TS20	1
4454 25	1/4" 5-TOOTH.SCREWDR.BIT TS25	1
4454 27	1/4" 5-TOOTH.SCREWDR.BIT TS27	1
4454 30	1/4" 5-TOOTH.SCREWDR.BIT TS30	1
4454 40	1/4" 5-TOOTH.SCREWDR.BIT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

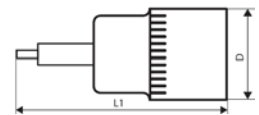


Article No.	Article Description	QTY
4462 5 50	1/4" XZN-SCREWDR.BIT 5 28MM 5*	1
4462 6 50	1/4" XZN-SCREWDR.BIT 6 28MM 5*	1
4462 8 50	1/4" XZN-SCREWDR.BIT 8 28MM 5*	1

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

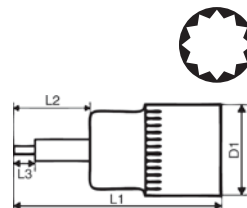


Article No.	Article Description	QTY
4462 5 32	1/4" XZN-SCREWDR.BIT 5 32MM	1
4462 6 32	1/4" XZN-SCREWDR.BIT 6 32MM	1
4462 8 32	1/4" XZN-SCREWDR.BIT 8 32MM	1

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" FORCH*****

- 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" FORCH*****

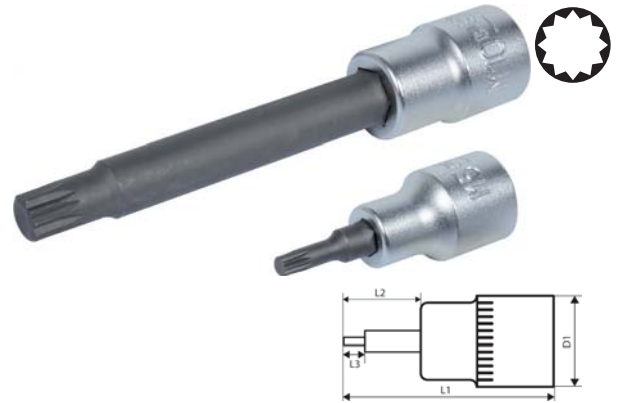
- for multi-point screws

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 tothing 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

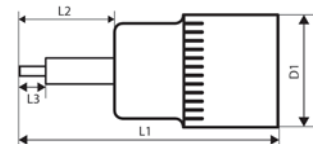
Contents each 1x:

- 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	KL4031-3010SOCK.WR.INS.XZN M10	1
4911 4031 3012	KL4031-3012SOCK.WR.INS.XZN M12	1
4911 4031 3014	KL4031-3014SOCK.WR.INS.XZN M14	1
4911 4031 3016	KL4031-3016SOCK.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	KL4031-3110SOCK.WR.INS.XZN M10	1
4911 4031 3112	KL4031-3112SOCK.WR.INS.XZN M12	1
4911 4031 3114	KL4031-3114SOCK.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	KL4031-3310SOCK.WR.INS.XZN M10	1
4911 4031 3312	KL4031-3312SOCK.WR.INS.XZN M12	1
4911 4031 3314	KL4031-3314SOCK.WR.INS.XZN M14	1
4911 4031 3408	KL4031-3408 SOCK.WR.INS.XZN M8	1
4911 4031 3410	KL4031-3410SOCK.WR.INS.XZN M10	1
4911 4031 3412	KL4031-3412SOCK.WR.INS.XZN M12	1
4911 4031 3414	KL4031-3414SOCK.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	M14	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



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

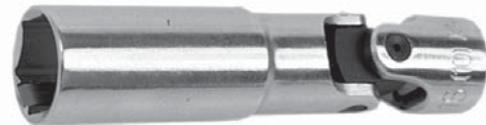
Article No.	Article Description	QTY
4486 38 14	3/8" SPARK PL.INS. SW14 250MM	1 ü
4486 38 16	3/8" SPARK PL.INS. SW16 180MM	1 ü
4486 38 208	3/8" SPARK PL.INS. SW20,8 180MM	1



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



Spark Plug Brush

- Brass wire, undulated

Article No.	Article Description	QTY
4922 1	SPARK PLUG BRUSH 145MM	1



Spark Plug Gauge

- With electrical adjuster
- Precision steel wire
- With diameter 0.4/0.5/0.6/0.7/0.8/0.9/1.0 mm

Article No.	Article Description	QTY
4922 2	SPARK PLUG GAUGE METRICAL	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" SAFTETY CLAMP UP TO SW 14	1
4579 12 15	1/2" SAFTETY CLAMP FROM SW 15	1
4579 34	3/4" SAFTETY CLAMP	1
4579 1	1" SAFTETY 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

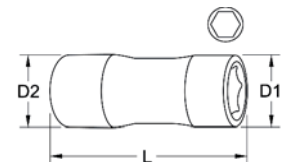
- 6-sided
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop
- Chrome vanadium



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	D1	D2	L
mm	mm	mm	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



Article No.	Article Description	QTY
4446 1 12 8	1/2" HEX SOCK.WR.INS.SW8 1000V	1
4446 1 12 9	1/2" HEX SOCK.WR.INS.SW9 1000V	1
4446 1 12 10	1/2" HEX SOCK.WR.INS.SW10 1000V	1
4446 1 12 11	1/2" HEX SOCK.WR.INS.SW11 1000V	1
4446 1 12 12	1/2" HEX SOCK.WR.INS.SW12 1000V	1
4446 1 12 13	1/2" HEX SOCK.WR.INS.SW13 1000V	1
4446 1 12 14	1/2" HEX SOCK.WR.INS.SW14 1000V	1
4446 1 12 15	1/2" HEX SOCK.WR.INS.SW15 1000V	1
4446 1 12 16	1/2" HEX SOCK.WR.INS.SW16 1000V	1
4446 1 12 17	1/2" HEX SOCK.WR.INS.SW17 1000V	1
4446 1 12 18	1/2" HEX SOCK.WR.INS.SW18 1000V	1
4446 1 12 19	1/2" HEX SOCK.WR.INS.SW19 1000V	1
4446 1 12 20	1/2" HEX SOCK.WR.INS.SW20 1000V	1
4446 1 12 21	1/2" HEX SOCK.WR.INS.SW21 1000V	1
4446 1 12 22	1/2" HEX SOCK.WR.INS.SW22 1000V	1
4446 1 12 23	1/2" HEX SO.WR.INS.SW 23 1000V	1
4446 1 12 24	1/2" HEX SO.WR.INS.SW 24 1000V	1
4446 1 12 26	1/2" HEX SO.WR.INS.SW 26 1000V	1
4446 1 12 27	1/2" HEX SO.WR.INS.SW 27 1000V	1
4446 1 12 28	1/2" HEX SO.WR.INS.SW28 1000V	1
4446 1 12 30	1/2" HEX SO.WR.INS.SW 30 1000V	1
4446 1 12 32	1/2" HEX SO.WR.INS.SW32 1000V	1

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

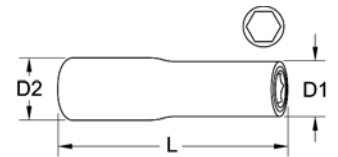
- 6-sided
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120 / ISO 1174 with ball stop groove
- Chrome vanadium



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
26.0	42.0	94.0
26.0	46.5	94.0
26.0	48.5	94.0



Socket 3/8", 2-way insulation

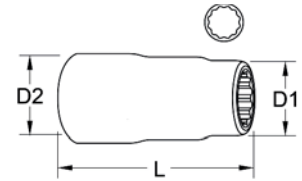
- Flank traction profile
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Inner socket drive as per DIN 3120/ISO 1174 with ball stop
- Chrome vanadium



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

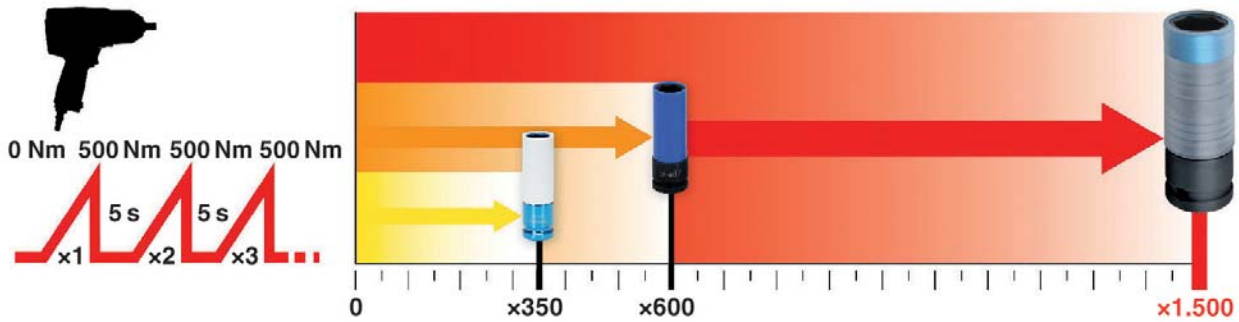
- plastic coated impact socket inserts 1/2" for the safe assembly and disassembly of alloy rims without damaging them



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



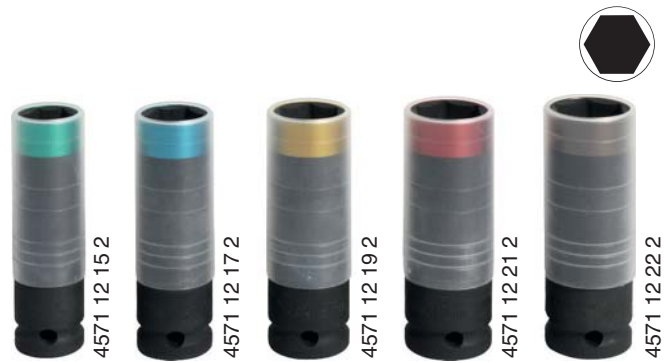
- Knittle Glove Latex, Partially Coated
Art.-No. 5405 133 7-11



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"KRAF-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



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

- ± 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
- ±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 60 320	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
- 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 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
- ±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 100550 4	3/4" TORQ. WR. SW. BLACK 100-550NM	1
4645 13001000 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



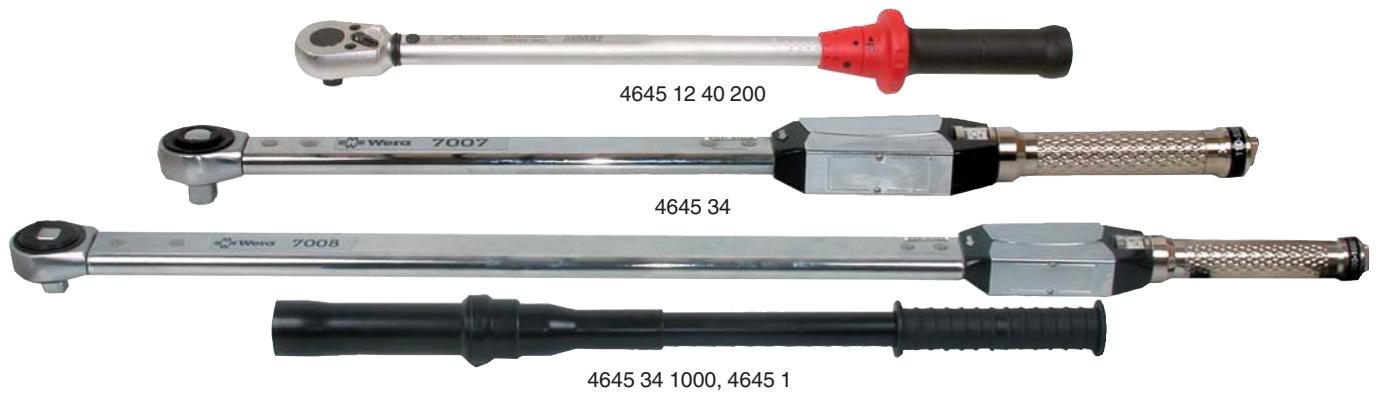
4645 38 14 0

4645 12 38 0

4645 12 0

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

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	Measur. range	Scale division	Length
	Nm	ft. Lb		
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: ± 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	Nm	D	H
mm	mm	mm	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: ± 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	Nm	H	L
mm	mm	mm	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: ± 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



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

Technical Data			
Drive	Nm	H	L
mm	mm	mm	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

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



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

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

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

- Dipped insulation as per DIN EN 60900
- 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



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

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

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



4639 93

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 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" + 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



Your Advantage / Benefit

- Ideal for fitting low-profile and RunFlatt 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



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

Related Products

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



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



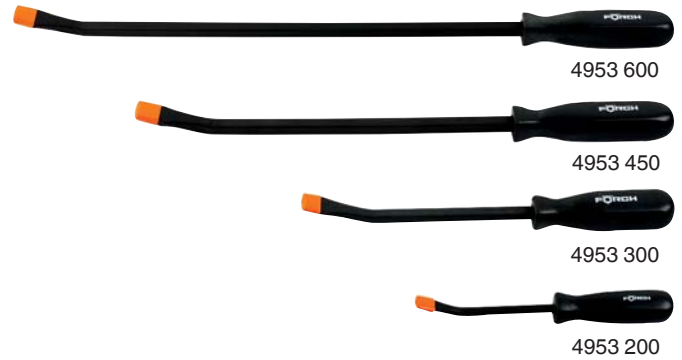
- Fine-knit gloves Duo-Grip
Art.-No. 5405 117 7 - 10



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.SET10P	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



4582 008



4582V 003



4582V 007

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.STRAIGHT10X11	1
4588 12 13	DOUBLE-RING SPAN.STRAIGHT12X13	1
4588 14 15	DOUBLE-RING SPAN.STRAIGHT14X15	1
4588 16 17	DOUBLE-RING SPAN.STRAIGHT16X17	1
4588 18 19	DOUBLE-RING SPAN.STRAIGHT18X19	1
4588 20 22	DOUBLE-RING SPAN.STRAIGHT20X22	1
4588 21 23	DOUBLE-RING SPAN.STRAIGHT21X23	1
4588 24 27	DOUBLE-RING SPAN.STRAIGHT24X27	1
4588 30 32	DOUBLE-RING SPAN.STRAIGHT30X32	1
4588 36 41	DOUBLE-RING SPAN.STRAIGHT36X41	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

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

(SW mm)

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.SET11P.	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



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)

Technical Data

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. 462910 11 ring joint ratchet wrench SW 10/11
- art. no. 462912 13 ring joint ratchet wrench SW 12/13
- art. no. 462914 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.SPANNER10X11	1
4587 12 13	DOUBLE RING-RATCH.SPANNER12X13	1
4587 14 15	DOUBLE RING-RATCH.SPANNER14X15	1
4587 16 18	DOUBLE RING-RATCH.SPANNER16X18	1
4587 17 19	DOUBLE RING-RATCH.SPANNER17X19	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.SW10,13,17,19	1
4624 12 15	RING RATCH.SPANN.SW12,13,14,15	1
4624 16 19	RING RATCH.SPANN.SW16,17,18,19	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 E10XE12	1
4609 14 18	TX-DOUBLE RING RATCHET E14XE18	1
4609 20 24	TX-DOPPELRINGRATSCH E20XE24	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	
4628 5 516	170	inch
4628 5 38	175	(American)
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



4628V 11

contents art.no. 4628 5 100:

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



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
- Bihexagonal 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



Article No.	Article Description	QTY
4593 6	RING WRENCH SW 6	1
4593 7	RING WRENCH SW 7	1
4593 8	RING WRENCH SW 8	1
4593 9	RING WRENCH SW 9	1
4593 10	RING WRENCH SW 10	1
4593 11	RING WRENCH SW 11	1
4593 12	RING WRENCH SW 12	1
4593 13	RING WRENCH SW 13	1
4593 14	RING WRENCH SW 14	1
4593 15	RING WRENCH SW 15	1
4593 16	RING WRENCH SW 16	1
4593 17	RING WRENCH SW 17	1
4593 18	RING WRENCH SW 18	1
4593 19	RING WRENCH SW 19	1
4593 21	RING WRENCH SW 21	1
4593 22	RING WRENCH SW 22	1
4593 24	RING WRENCH SW 24	1
4593 27	RING WRENCH SW 27	1
4593 30	RING WRENCH SW 30	1
4593 32	RING WRENCH SW 32	1
4593 34	RING WRENCH SW 34	1

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

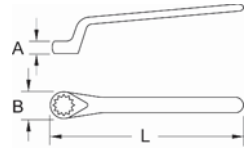
- Flank traction profile
- In compliance with DIN 7447
- Dipped insulation as per DIN EN 60900
- Ring cranked 75°
- Chrome vanadium



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



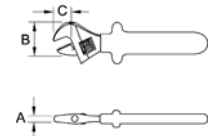
Monkey wrench, 2-way insulation

- 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



Article No.	Article Description	QTY
4592 1 24	ADJUSTABLE SPANNER SW24	1
4592 1 30	ADJUSTABLE SPANNER SW30	1
4592 1 34	ADJUSTABLE SPANNER SW34	1

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:

<u>Art. No.</u>	<u>Article Description</u>	<u>Quantity</u>
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 FORCH*****



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 FORCH*****



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



Article No.	Article Description	QTY
4261 0	VDE-PH SCREWDRIVER MC 0	1 ü
4261 1	VDE-PH SCREWDRIVER MC 1	1 ü
4261 2	VDE-PH SCREWDRIVER MC 2	1 ü
4261 3	VDE-PH SCREWDRIVER MC 3	1 ü

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

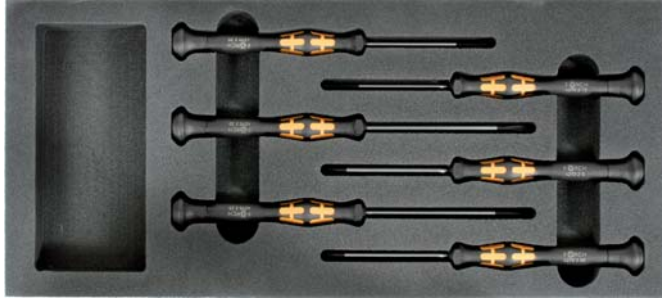
Precision Mechanic-Screwdriver Set LS/PH



• 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



Application



Precision zone



Power Zone



Rapid screwing zone



Hardened Black Point tip

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

Article No.	Article Description	QTY
4270V 96	VS-PREC.SCREWD.SET LS/PH 6-PCS	1

Related Products

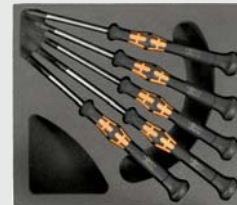
- Fine-knit gloves PU/nitrile foam
Art.-No. 5405 118 8 - 11



- 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

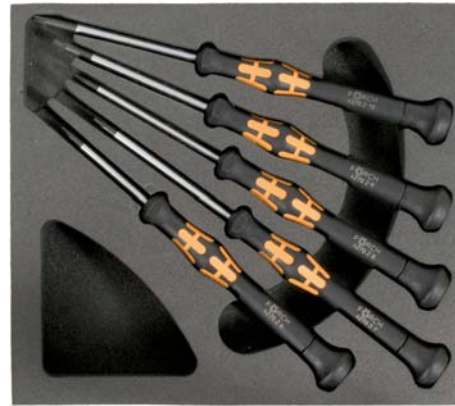
Precision Mechanic-Screwdriver Set TX

- 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-HANDLE300MM 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	D	I
	mm	mm	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

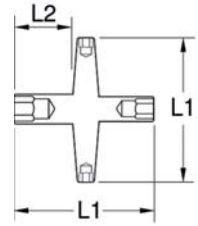
- 6-sided
- Dipped insulation as per DIN EN 60900
- No connection between the hexagonal steel inserts
- Made from shock-resistant plastic
- Chrome vanadium



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



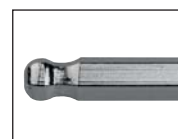
Flexible internal hex. screwdriver

- 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*

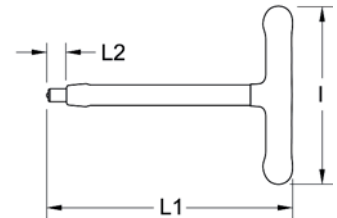
- with square socket at handle
- Matt chromium plated

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	l	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

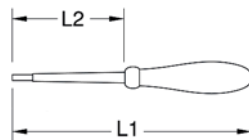
Hexagonal socket head screwdriver

- 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 cowling / 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.MULIT-COMP.7	1 ü
4263 8	VDE-TX-SCREWDR.MULIT-COMP.8	1 ü
4263 9	VDE-TX-SCREWDR.MULIT-COMP.9	1 ü
4263 10	VDE-TX-SCREWDR.MULIT-COMP.10	1 ü
4263 15	VDE-TX-SCREWDR.MULIT-COMP.15	1 ü
4263 20	VDE-TX-SCREWDR.MULIT-COMP.20	1 ü
4263 25	VDE-TX-SCREWDR.MULIT-COMP.25	1 ü
4263 30	VDE-TX-SCREWDR.MULIT-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

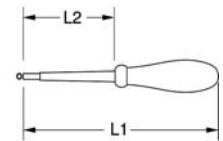
TX screwdriver

- 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 FORCH*****



- 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

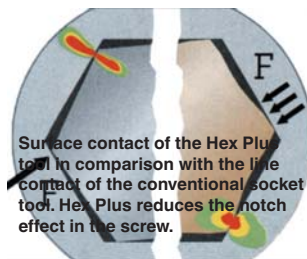
Application



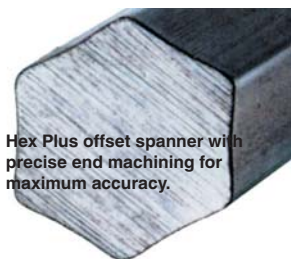
Article No.	Article Description	QTY
4159 10	ALLEN KEY SET HEX-PL.10PCS 5*	1

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



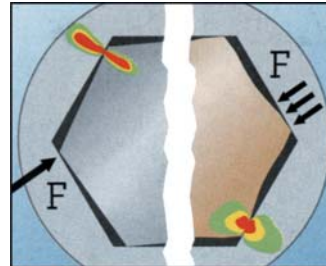
Hex-Plus Allen Key Set



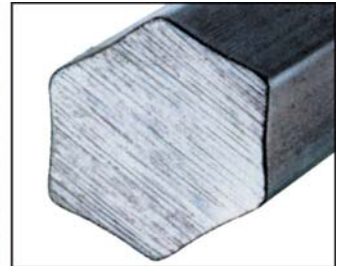
- Clip 9-part

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	Colour 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

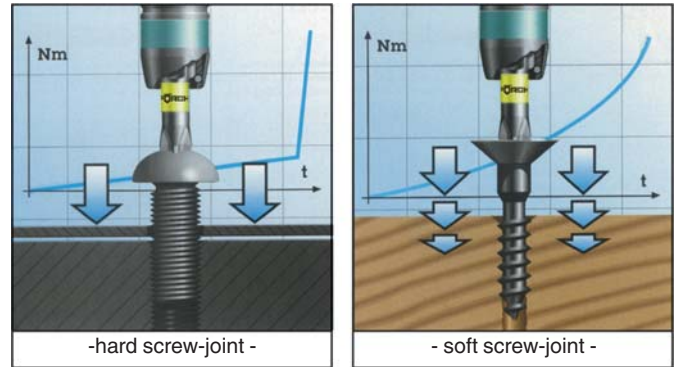


Das FÖRCH Bit-colour coding system



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

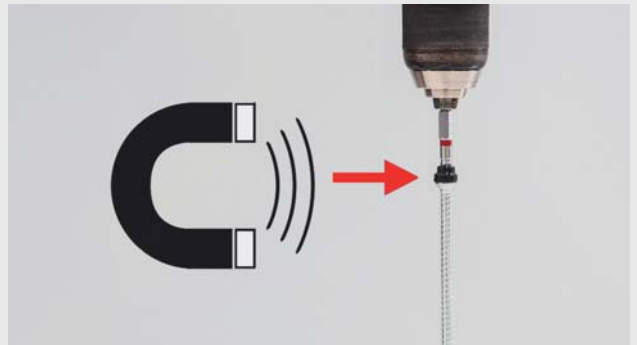
- Maintains strong grip both horizontally and vertically
- Magnetic attachment at the front portion of the bit



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



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

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 ratch 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-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
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 0.8 x 5.5
- 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:

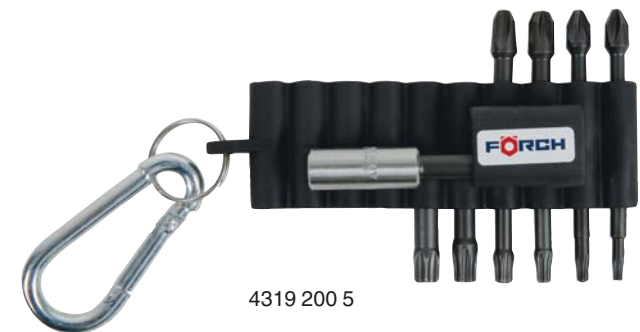
- each 5x: TX stainless steel 20/25
- 2x: TX stainless steel 15
- each 1x: TX stainless steel 30/40
- 1x: Bit holder 1/4" stainless steel with quick-change chuck

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 FÖRCH*****

- 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 FÖRCH*****

- 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" FÖRCH*****

- 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

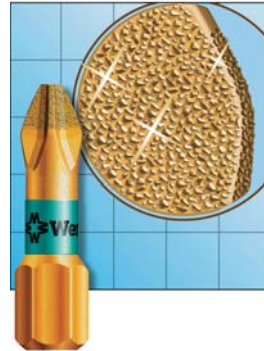
Contents:

- 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"DIAMAND-BITS 25MM TX 10	1 z
4318 15	1/4"DIAMAND-BITS 25MM TX 15	1 z
4318 20	1/4"DIAMAND-BITS 25MM TX 20	1 z
4318 25	1/4"DIAMAND-BITS 25MM TX 25	1 z
4318 30	1/4"DIAMAND-BITS 25MM TX 30	1 z
4318 40	1/4"DIAMAND-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
- Art.-No. 4358 7:**
- with locking ball for manually operated socket wrench inserts

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



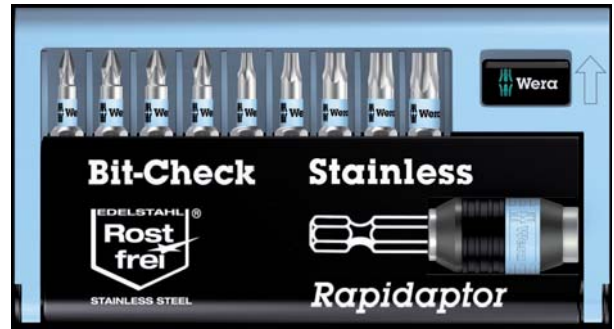
Bit-Set Stainless Steel 1/4", 10-pcs.



- 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"

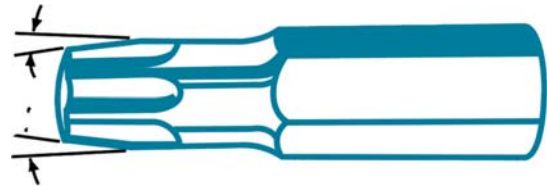
- For all impact screwdrivers with a 1/4" hexagonal drive

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



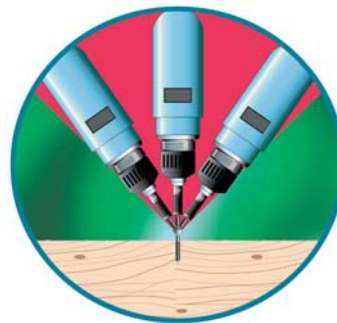
Article No.	Article Description	QTY
4313 10	1/4"TX-BIT OPTIGRIP 25MM TX 10	e 10
4313 15	1/4"TX-BIT OPTIGRIP 25MM TX 15	e 10
4313 20	1/4"TX-BIT OPTIGRIP 25MM TX 20	e 10
4313 25	1/4"TX-BIT OPTIGRIP 25MM TX 25	e 10
4313 30	1/4"TX-BIT OPTIGRIP 25MM TX 30	e 10
4313 40	1/4"TX-BIT OPTIGRIP 25MM TX 40	e 10
4313 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"PH-BIT INKRA 25MM SIZE 1	e 10
4307 2	1/4"PH-BIT INKRA 25MM SIZE 2	e 10
4307 3	1/4"PH-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" 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:

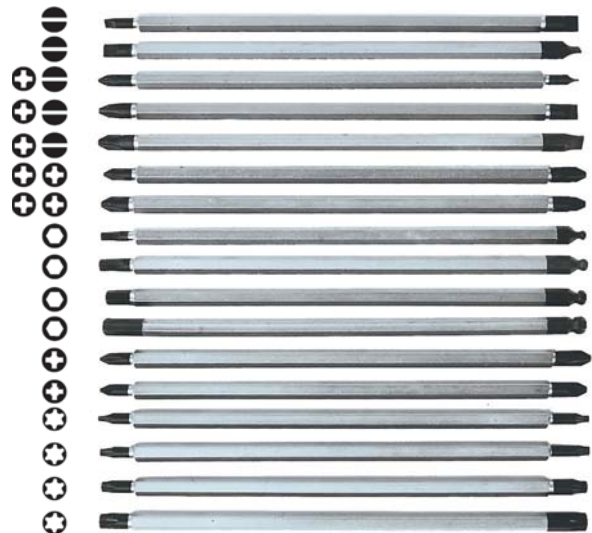
Art.-No.	Article Description	Quantity
4370 1	HANDLE MK FOR COMBI-BLADES	1
4372 11	COMBI BLADES SLOT 4/6MM	1
4372 12	COMBI BLADES SLOT 5/7MM	1
4372 42	COMBI BLADE HEX.SOCKET 4,0/4,0	1
4372 43	COMBI BLADE HEX.SOCKET 5,0/5,0	1
4372 44	COMBI BLADE HEX.SOCKET 6,0/6,0	1
4372 51	COMBI BLADE CROSS SLOT PH1/PH2	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-ADAPTE 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



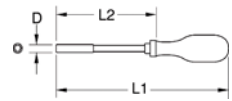
Bit screwdriver with organiser

- Insulated as per DIN EN 60900
- With magnet
- For bits which comply with DIN 3126- C 6,3
- Chrome vanadium



Technical Data

D	L1	L2
mm	mm	mm
12,5	230,0	120,0



Article No.	Article Description	QTY
4257 4	BIT SCR.DRIV.W.MAGAZ.1/4"	1

VDE screwdriver set with interchangeable blade

- 16-piece
- Hand grip with VDE interchangeable blades, 154 mm
- Fulfils 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
- Phillips-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

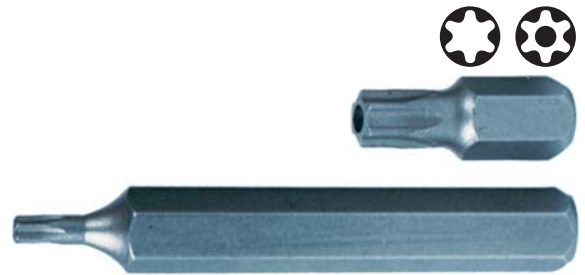
(Shaft mm / length mm / size)



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 30MMTX25	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

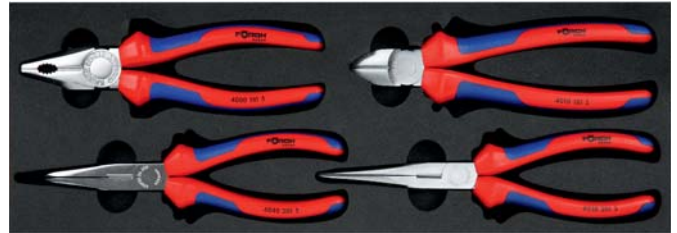


4-Piece VS-plier set **FÖRCH*******

- 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



4099V 03

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



4099V 04

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

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



		Cutting capacity:		
Length	Weight	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)

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

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



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 1 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 FORCH*****

- 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



Article No.	Article Description	QTY
4020 181 5	DIAGONAL CUTTER KNIPEX180MM 5*	1 s
4020 201 5	DIAGONAL CUTTER KNIPEX200MM 5*	1 s

Technical Data		Cutting capacity:		
Length	Weight	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 FORCH*****

- 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:

- 40° 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			Cutting capacity:	
Pliers form	Length	Weight	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. 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 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 und 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



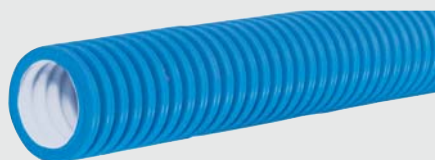
Article No.	Article Description	QTY
4012 170	VDE-STRIPP.PLIERS 3IN2 170MM	1 ü

Related Products

- Electrician's protective gloves Class 0 AGR 5405



- Empty tube YSF-GS-HO AGR 8440



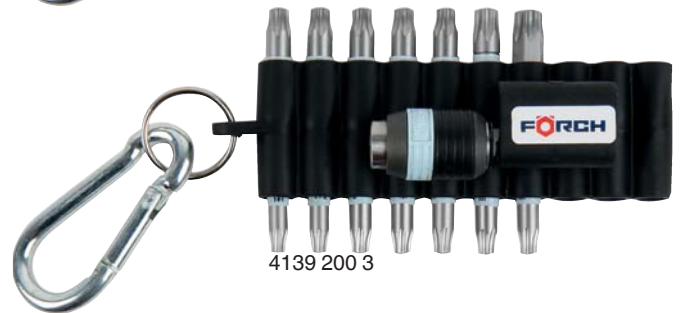
- Gel connection AGR 8448



Bit-Set with carabiner

Bit-Kit for rapid access to bits and bit holders

- 25 mm long bits
- 1/4" mount
- with bit holder



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 FORCH*****

- 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:
165 mm	262 g	Copper cable
200 mm	340 g	50 mm ² (Ø 15 mm)
		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 FORCH*****

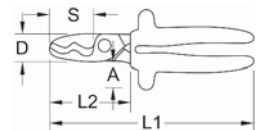
- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- For stripping and cutting of covered copper and aluminium cables



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

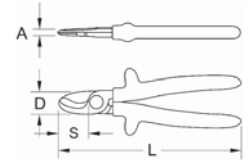
Article No.	Article Description	QTY
4072 1 200	CAB.CUTT.PART.ISOL.200MM	1

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					
Ø	A	D	L	S	
mm	mm	mm	mm	mm	mm
22,0	18,0	31,0	215,0	32,0	



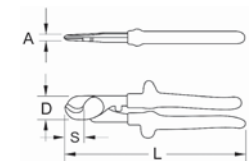
Article No.	Article Description	QTY
4072 3 215	CAB.CUTT.PART.ISOL.215MM	1

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						
Ø	Cutting values	A	D	L	S	
mm	mm ²	mm	mm	mm	mm	mm
15,0	50,0	13,5	38,0	240,0	25,0	



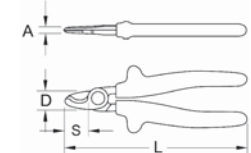
Article No.	Article Description	QTY
4072 6 240	CAB.CUTT.PART.ISOL.240MM	1

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



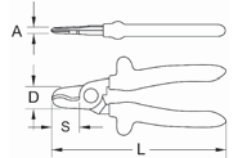
Technical Data				
Ø	A	D	L	S
mm	mm	mm	mm	mm
15,0	12,0	25,0	160,0	20,0



Article No.	Article Description	QTY
4072 7 160	CAB.CUTT.PART.ISOL.160MM	1

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

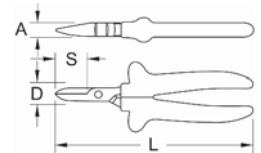


Technical Data					
Ø	Cutting values	A	D	L	S
mm	mm ²	mm	mm	mm	mm
17,0	35,0	15,0	27,0	165,0	25,0

Article No.	Article Description	QTY
4072 2 165	CAB.CUTT.PART.ISOL.165MM	1

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

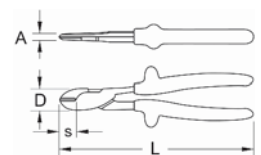


Technical Data			
A	D	L	S
mm	mm	mm	mm
9,0	14,0	180,0	38,0

Article No.	Article Description	QTY
4072 4 180	CAB.CUTT.PART.ISOL.180MM	1

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



Technical Data			
A	D	L	S
mm	mm	mm	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

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

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		Cutting capacity:		
Length	Weight	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

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

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



4031 160



4041 200

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



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

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

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



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

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

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	KNIPLEX-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



Safe locking mechanism due to user-friendly spring-clips



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



- 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.PLIERS F.STAIN.STEEL STR.	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



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

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

Circlip Pliers, Straight

- In VAROsoft tool deposit 9026 64

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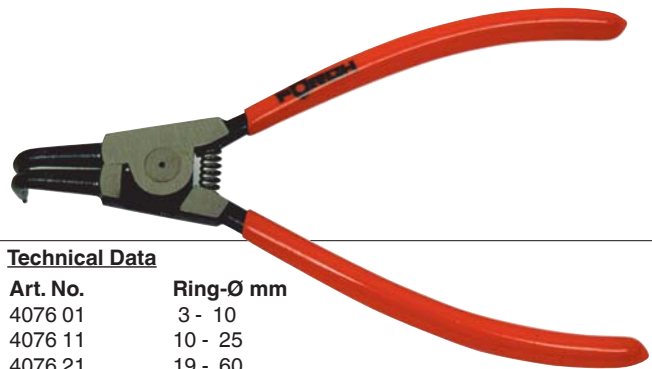
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4076 0	SEEGER CIRC.PLIERS STRAIGHT A0	1
4076 1	SEEGER CIRC.PLIERS STRAIGHT A1	1
4076 2	SEEGER CIRC.PLIERS STRAIGHT A2	1
4076 3	SEEGER CIRC.PLIERS STRAIGHT A3	1



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



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

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

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



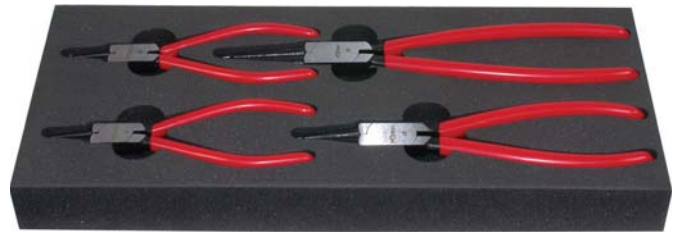
Article No.	Article Description	QTY
4078 0	SEEGER CIRCL.PL.STRAIGHT I 0	1 z
4078 1	SEEGER CIRCL.PL.STRAIGHT I 1	1 z
4078 2	SEEGER CIRCL.PL.STRAIGHT I 2	1 z
4078 3	SEEGER CIRCL.PL.STRAIGHT I 3	1 z
4078 4	SEEGER CIRCL.PL.STRAIGHT I 4	1 z

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

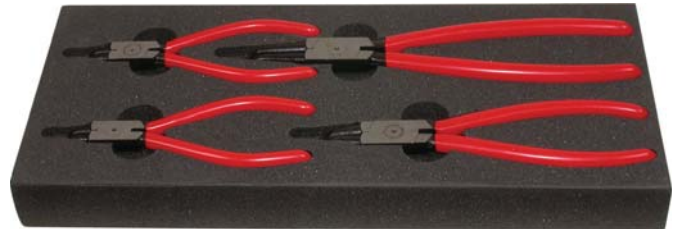
Technical Data	
Art. No.	Ring-Ø mm
4078 01	8 – 15
4078 11	12 – 25
4078 21	19 – 60
4078 31	40 – 100
4078 41	85 – 200

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°



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 **FORCH*******

- 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



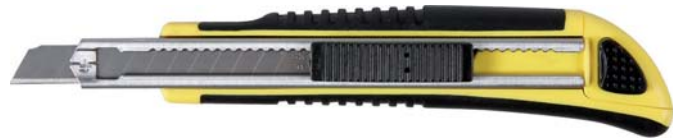
Article No.	Article Description	QTY
4762 9 5	CUTTING KNIFE 9MM 5*	1

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 guide
- 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:

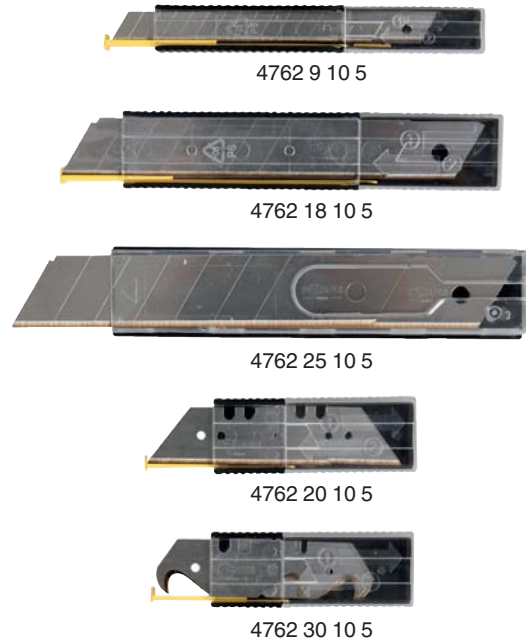
- 1x trapezoidal blade



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

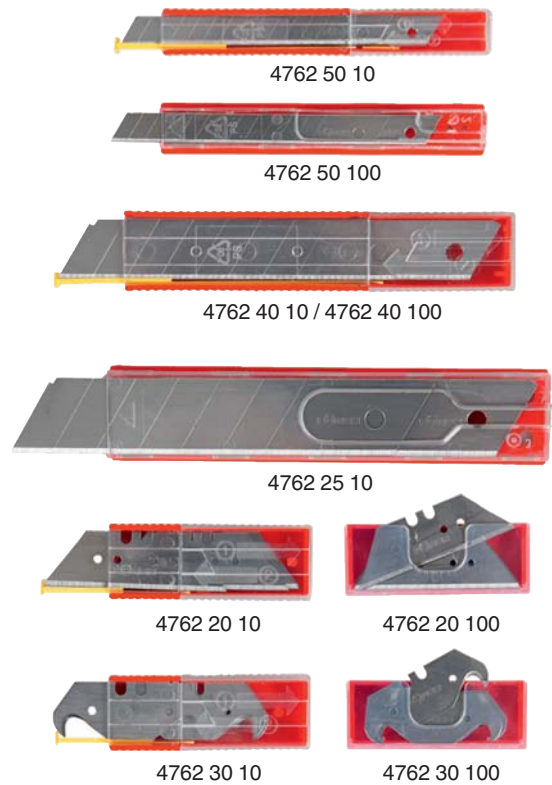
Article No.	Article Description	QTY
4762 9 10 5	PCK(10)SNAPOFF BL.9MM TITAN 5*	1
4762 18 10 5	PCK(10)SNAPOFF BL18MM TITAN 5*	1
4762 25 10 5	PCK(10)SNAPOFF BL25MM TITAN 5*	1
4762 20 10 5	PCK(10)TRAPEZOIDBL. TITAN 5*	1
4762 30 10 5	PCK(10)HOOK BLADES TITAN 5*	1



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 PROFI 9MM	1
4762 50 100	PK(100)RETR.BLADE PROFI 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



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



4765 1 7

Article No.	Article Description	QTY
4765 1 7	PCKT KNIFE STAINL.STEEL 7PARTS	1
4765 1 11	PCKT KNIFE STAINL.STEEL 11PARTS	1



4765 1 11

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	S	L
mm	mm	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



4749 200



4749 250



4749V 1

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)

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 clamping 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



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

Article No.	Article Description	QTY
4965 1	THREAD FILE METRC 0,80-3,0	1
4965 10	THREAD FILE IMPERIAL 24-11	1

Hollow Punch Round

- DIN 7200
- With bare whistle
- Conically undercut in the inside

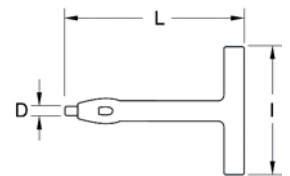
Article No.	Article Description	QTY
4739 4	HOLLOW PUNCH FOR ROUND EYE.4MM	1
4739 5	HOLLOW PUNCH FOR ROUND EYE.5MM	1
4739 6	HOLLOW PUNCH FOR ROUND EYE.6MM	1
4739 8	HOLLOW PUNCH FOR ROUND EYE.8MM	1
4739 10	HOLLOW PUNCH F.ROUND EYE.10MM	1
4739 11	HOLLOW PUNCH F.ROUND EYE.11MM	1
4739 12	HOLLOW PUNCH F.ROUND 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



Technical Data		
I	D	L
mm	mm	mm
90,0	4,0	100,0

Article No.	Article Description	QTY
4997 7 4 100	HOLL.PUNCH Ø4 X 100MM	1

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 rambled 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



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



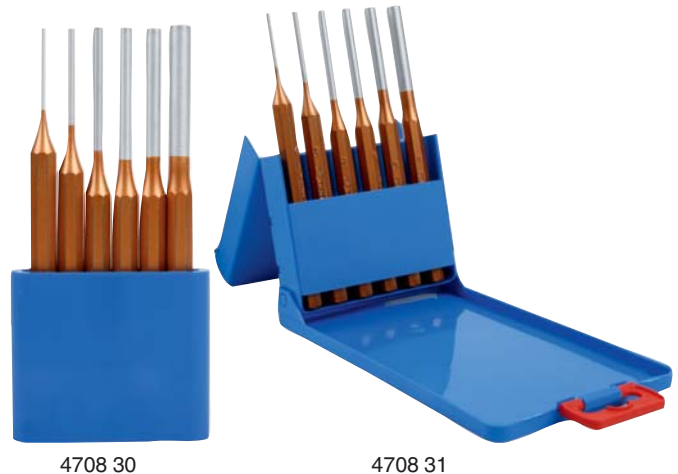
Hand tools

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 **FÖRCH*******

- 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

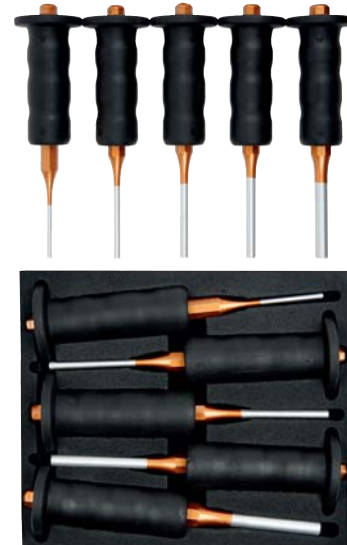
Art. No. 4708 090:

- 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



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	ANSCHLAGWINK.DIN875/2 75X 50	1
4775 1 100 70	ANSCHLAGWINK.DIN875/2 100X 70	1
4775 1 150 100	ANSCHLAGWINK.DIN875/2 150X100	1
4775 1 200 130	ANSCHLAGWINK.DIN875/2 200X130	1
4775 1 250 165	ANSCHLAGWINK.DIN875/2 250X165	1
4775 1 300 175	ANSCHLAGWINK.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 1:

- 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: ø 8 mm



Article No.	Article Description	QTY
4715 5 10 4	PRECISE INDICATOR 0-10MM 5*	1

Technical Data	
Measuring range:	0 - 10 mm
Resolution:	0.01 mm
Pointer rotation:	1.0 mm

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: Ø 8 mm
- in plastic box
- suitable button cells: Art. no. 3882 27 (in delivery scope)
- suitable data cable: Art. no. 4715 5 012 41



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

Technical Data	
test range:	0 - 12.7 mm / 0 - 0.5 inch
increase:	0,01 mm / 0,0005 inch
gauging pressure:	< 1.50 N

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 Ø 4 mm and Ø 8 mm



Article No.	Article Description	QTY
4715 5 280	MAGNETIC GAUGE TRIPOD 280MM 5*	1

Technical Data	
total height:	280 mm
rods Ø 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

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)



4715 5 025



4715 5 25 50

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

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°

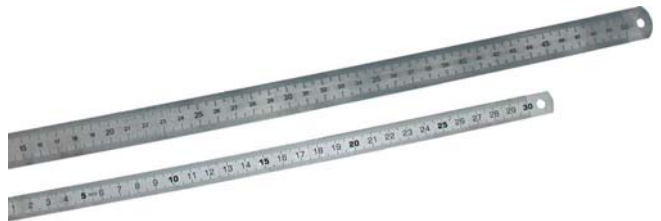
Article No.	Article Description	QTY
4715 100	INDICATOR 150X200	1



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



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



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

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

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:COBRA WAPO.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

General Characteristics

- DIN 338** Twist drills with cylinder shank
- DIN 338** Spiral drills with thickened cylinder shank
- DIN 340** Long twist drills with cylinder shank
- DIN 345** Twist drill with morse taper shank
- DIN 1897** Extra short twist drill with cylinder shank
- DIN 333** Centering drill 60° - Form A
- DIN 1869** Extra long twist drills with cylinder shank

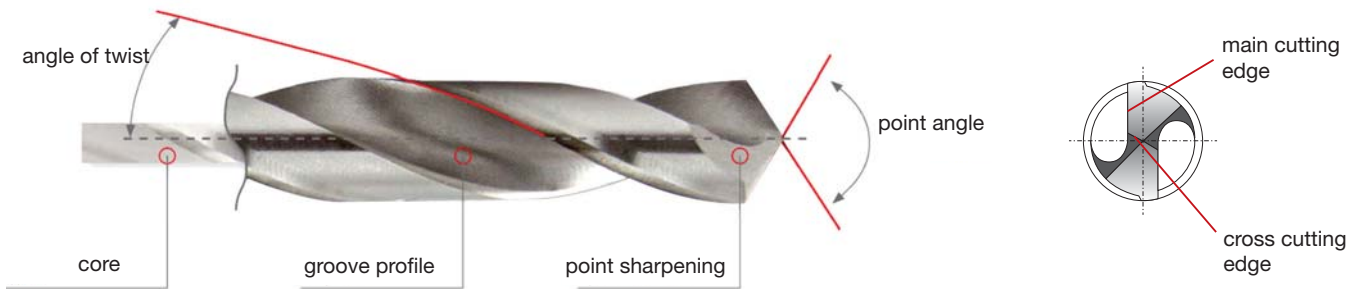
- HSS** High speed steel for drilling in highly preprocessable materials with a strength of up to 900 N/mm²
- HSSE Co 5** High-speed steel with 5% carbon content. High toughness and heat resistance for drilling in difficult to machine materials with a strength of up to 1,100 N/mm².
- HSSE Co 8** High-speed steel with 8% carbon content. Very high strength and excellent heat resistance for drilling in high strength materials, austenitic steel, for hot forging, etc., with a strength of up to 1,300 N/mm².

TiN Titanium nitride coating increases the service life compared to uncoated tools.

TiAlN Titanium-aluminum-nitride coating increases the resistance to oxidation and hot-setting.





Conical section (normal section)
Strong main cutting edges, resistant against shock and possible lateral forces, easy to sand by hand

Split point
Prolonged main cutting edges, resistant against shock, good heat dissipation for greater durability



Guide values - recommended speed in 1/rpm						
Drill Ø	Steel	Stainless steel	Aluminium	Brass	Plastic	High strength steel
1 mm	2.800	2.200	5.500	4.500	2.500	1.800
2 mm	2.600	2.000	5.000	4.000	2.300	1.200
3 mm	2.200	1.600	4.500	3.500	1.900	800
4 mm	1.800	1.250	4.000	3.100	1.500	630
5 mm	1.500	1.000	3.500	2.750	1.250	510
6 mm	1.250	800	3.050	2.400	1.050	420
7 mm	1.060	660	2.650	2.100	900	360
8 mm	900	560	2.330	1.800	775	310
9 mm	770	490	2.000	1.540	660	280
10 mm	660	430	1.730	1.300	580	250
11 mm	580	375	1.480	1.080	510	230
12 mm	510	330	1.250	860	450	210
13 mm	450	300	1.050	700	400	190
14 mm	400	270	870	550	360	170

Twist Drill Application Overview

Metal Drilling, Application and Allocation										
DIN/Type	338 N	338 N	338 N	338 N	338 N	338 W	338 W	338 N	338 N	338 N
Cutting material	roll forged HSS	polished HSS	polished HSS-E	polished HSS-TIN	Bullet HSS-E	polished HSS-TIAN	polished HSS-E Multi-Inox	polished HSS-E Steam	polished HSS-E Multi-TT	polished HSS-E Co 8 %
AGR	5500	5501	5502	5503	5504	5516	5506 5	5566 5	5567 5	5564
Fields of Application										
Steel	→	↑	↑	↑	↑	↑	↑	↑	↑	→
Special steels > 800N/mm ²	↓	→	→	→	→	↑	↑	↑	↑	↑
Stainless steel	↓	↓	↑	→	→	↑	↑	↑	↑	→
Non-ferrous metals	↑	↑	↑	↑	↑	↑	→	→	↑	→
Cast	→	↑	↑	↑	→	→	↑	↑	↑	↑
Titanium	↓	↓	→	→	→	→	→	→	↑	↑
Hard plastics (Duroset)	↑	↑	→	→	→	↑	→	↑	↑	→
Soft plastics (Thermoset)	↑	↑	→	→	→	↑	→	→	→	↓
Elastomer	→	→	↓	↓	↓	↑	↓	↓	↓	↓
Wood	→	→	→	→	↓	→	→	→	→	→
	→	↑	↑	↑	↑	↓	↑	→	↓	→
	↑	↑	↑	↑	↑	→	↑	↑	→	↑
	→	→	↑	↑	↓	↑	↓	↑	↑	↑
	↓	→	→	→	↓	↑	↓	↑	↑	↑
Technical Data										
Drilling depth	5 × Ø	5 × Ø	5 × Ø	5 × Ø	3 × Ø	6 × Ø	4 × Ø	3 × Ø	3 × Ø	5 × Ø
Tip angle	118°	135°	130°	135°	118°	130°	135°	118°	118°	130°
Split point	no	from 3 mm	from 3 mm	from 3 mm	yes	from 2 mm	from 3 mm	from 1 mm	from 1 mm	ab 2 mm
Surface	burnished	burnished	bare	Titanium-nitride	bare	Titanium aluminium nitride	steam tempred	steam tempred	TIALN-TIN multi coating	bare
Geometry	roll forget	polished	polished	polished	polished	polished	polished	polished	polished	polished
Suitable for strength N/mm ²	800 N/mm ²	900 N/mm ²	1,000 N/mm ²	900 N/mm ²	900 N/mm ²	1,200 N/mm ²	900 N/mm ²	1,000 N/mm ²	1,200 N/mm ²	800 – 1,300 N/mm ²

↑ ideally suitable
 → conditionally suitable
 ↓ not suitable

Twist Drill Application Overview

Metal Drilling, Application and Allocation						
DIN/Type	338 N	340 W	340 N	1869 R2 N	345 N	1897 N
Cutting material	roll forged HSS	polished HSS-E	polished HSS	polished HSS	polished HSS	polished HSS
AGR	5505	5510 5	5510	5508	5511	5507
Fields of Application						
Steel	→	↑	↑	↑	↑	↑
Special steels > 800 N/mm ²	↓	→	→	→	→	→
Stainless steel	↓	↑	↓	↓	↓	↓
Non-ferrous metals	↑	↑	↑	↑	↑	↑
Cast	→	↑	↑	↑	↑	↑
Titanium	↓	→	↓	↓	↓	↓
Hard plastics (Duroset)	↑	↑	↑	↑	→	↑
Soft plastics (Thermoset)	↑	↑	↑	↑	→	↑
Elastomer	→	↑	↑	↑	→	↑
Wood	→	→	→	→	→	→
	→	→	→	→	↓	↑
	↑	↑	↑	↑	↓	↑
	→	↑	→	↓	↑	↑
	↓	↑	↓	↓	↑	↑
Technical Data						
Drilling depth	3 × Ø	10 × Ø	5 × Ø	25 × Ø	5 × Ø	3 × Ø
Tip angle	118°	130°	135°	130°	118°	118°
Split point	no	yes	yes	yes	no	yes
Surface	burnished	bare	bare	bare	burnished	bare
Geometry	roll forged	polished	polished	polished	roll forged	polished
Suitable for strength	800 N/mm ²	1,000 N/mm ²	900 N/mm ²	900 N/mm ²	900 N/mm ²	900 N/mm ²

ideally suitable
 conditionally suitable
 not suitable

Twist Drill HSS, Polished, MULTI-TT **FÖRCH*******

- The specialist for professional machining when it comes to cars, workshops and industry, with a wide range of applications in a variety of materials
 - Multilayer MULTI-TT coating ensures maximum thermal stability and optimised wear behaviour
 - Up to 7 times longer service life compared with conventional HSS drilling tools
 - Ideal for use in stationary machinery and CNC controlled machining centres
 - Increased cutting stability, ensuring very high drilling stability
 - Precise drilling behaviour, highest dimensional accuracy and maximum precision
 - Outstanding fracture resistance due to optimum elasticity
 - Reduced chuck wear due to hardened shaft
 - Split point from Ø 1 mm, for precise drilling
 - **Standard / Type:** DIN 338 / Type N
 - **Cutting material:** HSS-E 5 % cobalt alloy
 - **Surface:** multi-layered TiAlN / TiN coating
 - **Optimum drilling depth:** 3x drill Ø
 - **Point angle:** 118°
 - **Angle of twist:** 130°
 - **Shaft:** short cylindrical
 - **Coating hardness:** 3,300 HV
 - **Cutting direction:** clockwise
- Areas of application:**
- Alloyed and unalloyed steels (up to 1,200 N/mm²) tensile strength, corrosion, acid and heat resistant austenitic steel V2A and V4A, titanium and titanium alloys, cast iron, aluminium, aluminium alloys, copper, brass, bronze, etc.



Technical Data /Approximate speed recommendation in 1/rpm

Drill Ø	Steel HSS twist drill	Stainless steel HSS-E twist drill	Aluminium HSS twist drill	Brass HSS twist drill	Plastics HSS twist drill
1 mm	2,800	2,200	5,500	4,500	2,500
2 mm	2,600	2,000	5,000	4,000	2,300
3 mm	2,200	1,600	4,500	3,500	1,900
4 mm	1,800	1,250	4,000	3,100	1,500
5 mm	1,500	1,000	3,500	2,750	1,250
6 mm	1,250	800	3,050	2,400	1,050
7 mm	1,060	660	2,650	2,100	900
8 mm	900	560	2,330	1,800	775
9 mm	770	490	2,000	1,540	660
10 mm	660	430	1,730	1,300	580
11 mm	580	375	1,480	1,080	510
12 mm	510	330	1,250	860	450
13 mm	450	300	1,050	700	400
14 mm	400	270	870	550	360

Article No.	Article Description	QTY
5567 5 10	TW.DR.338HSS-E,MULTI-TT 1.0 5*	10
5567 5 11	TW.DR.338HSS-E,MULTI-TT 1.1 5*	10
5567 5 12	TW.DR.338HSS-E,MULTI-TT 1.2 5*	10
5567 5 13	TW.DR.338HSS-E,MULTI-TT 1.3 5*	10
5567 5 14	TW.DR.338HSS-E,MULTI-TT 1.4 5*	10
5567 5 15	TW.DR.338HSS-E,MULTI-TT 1.5 5*	10
5567 5 16	TW.DR.338HSS-E,MULTI-TT 1.6 5*	10
5567 5 17	TW.DR.338HSS-E,MULTI-TT 1.7 5*	10
5567 5 18	TW.DR.338HSS-E,MULTI-TT 1.8 5*	10
5567 5 19	TW.DR.338HSS-E,MULTI-TT 1.9 5*	10
5567 5 20	TW.DR.338HSS-E,MULTI-TT 2.0 5*	10
5567 5 21	TW.DR.338HSS-E,MULTI-TT 2.1 5*	10
5567 5 22	TW.DR.338HSS-E,MULTI-TT 2.2 5*	10
5567 5 23	TW.DR.338HSS-E,MULTI-TT 2.3 5*	10
5567 5 24	TW.DR.338HSS-E,MULTI-TT 2.4 5*	10
5567 5 25	TW.DR.338HSS-E,MULTI-TT 2.5 5*	10
5567 5 26	TW.DR.338HSS-E,MULTI-TT 2.6 5*	10
5567 5 27	TW.DR.338HSS-E,MULTI-TT 2.7 5*	10

Article No.	Article Description	QTY
5567 5 28	TW.DR.338HSS-E,MULTI-TT 2.8 5*	10
5567 5 29	TW.DR.338HSS-E,MULTI-TT 2.9 5*	e 10
5567 5 30	TW.DR.338HSS-E,MULTI-TT 3.0 5*	10
5567 5 31	TW.DR.338HSS-E,MULTI-TT 3.1 5*	10
5567 5 32	TW.DR.338HSS-E,MULTI-TT 3.2 5*	10
5567 5 33	TW.DR.338HSS-E,MULTI-TT 3.3 5*	10
5567 5 34	TW.DR.338HSS-E,MULTI-TT 3.4 5*	10
5567 5 35	TW.DR.338HSS-E,MULTI-TT 3.5 5*	10
5567 5 36	TW.DR.338HSS-E,MULTI-TT 3.6 5*	10
5567 5 37	TW.DR.338HSS-E,MULTI-TT 3.7 5*	10
5567 5 38	TW.DR.338HSS-E,MULTI-TT 3.8 5*	10
5567 5 39	TW.DR.338HSS-E,MULTI-TT 3.9 5*	10
5567 5 40	TW.DR.338HSS-E,MULTI-TT 4.0 5*	10
5567 5 41	TW.DR.338HSS-E,MULTI-TT 4.1 5*	10
5567 5 42	TW.DR.338HSS-E,MULTI-TT 4.2 5*	10
5567 5 43	TW.DR.338HSS-E,MULTI-TT 4.3 5*	10
5567 5 44	TW.DR.338HSS-E,MULTI-TT 4.4 5*	10
5567 5 45	TW.DR.338HSS-E,MULTI-TT 4.5 5*	10

(Continued on next page)

Twist Drill HSS, Polished, MULTI-TT **FÖRCH*******

Article No.	Article Description	QTY
5567 5 46	TW.DR.338HSS-E,MULTI-TT 4.6 5*	10
5567 5 47	TW.DR.338HSS-E,MULTI-TT 4.7 5*	10
5567 5 48	TW.DR.338HSS-E,MULTI-TT 4.8 5*	10
5567 5 49	TW.DR.338HSS-E,MULTI-TT 4.9 5*	10
5567 5 50	TW.DR.338HSS-E,MULTI-TT 5.0 5*	10
5567 5 51	TW.DR.338HSS-E,MULTI-TT 5.1 5*	5
5567 5 52	TW.DR.338HSS-E,MULTI-TT 5.2 5*	5
5567 5 53	TW.DR.338HSS-E,MULTI-TT 5.3 5*	5
5567 5 54	TW.DR.338HSS-E,MULTI-TT 5.4 5*	5
5567 5 55	TW.DR.338HSS-E,MULTI-TT 5.5 5*	5
5567 5 56	TW.DR.338HSS-E,MULTI-TT 5.6 5*	5
5567 5 57	TW.DR.338HSS-E,MULTI-TT 5.7 5*	5
5567 5 58	TW.DR.338HSS-E,MULTI-TT 5.8 5*	5
5567 5 59	TW.DR.338HSS-E,MULTI-TT 5.9 5*	5
5567 5 60	TW.DR.338HSS-E,MULTI-TT 6.0 5*	e 5
5567 5 61	TW.DR.338HSS-E,MULTI-TT 6.1 5*	e 5
5567 5 62	TW.DR.338HSS-E,MULTI-TT 6.2 5*	e 5
5567 5 63	TW.DR.338HSS-E,MULTI-TT 6.3 5*	e 5
5567 5 64	TW.DR.338HSS-E,MULTI-TT 6.4 5*	e 5
5567 5 65	TW.DR.338HSS-E,MULTI-TT 6.5 5*	e 5
5567 5 66	TW.DR.338HSS-E,MULTI-TT 6.6 5*	e 5
5567 5 67	TW.DR.338HSS-E,MULTI-TT 6.7 5*	e 5
5567 5 68	TW.DR.338HSS-E,MULTI-TT 6.8 5*	e 5
5567 5 69	TW.DR.338HSS-E,MULTI-TT 6.9 5*	e 5
5567 5 70	TW.DR.338HSS-E,MULTI-TT 7.0 5*	e 5
5567 5 71	TW.DR.338HSS-E,MULTI-TT 7.1 5*	e 5
5567 5 72	TW.DR.338HSS-E,MULTI-TT 7.2 5*	e 5
5567 5 73	TW.DR.338HSS-E,MULTI-TT 7.3 5*	e 5
5567 5 74	TW.DR.338HSS-E,MULTI-TT 7.4 5*	e 5
5567 5 75	TW.DR.338HSS-E,MULTI-TT 7.5 5*	e 5
5567 5 76	TW.DR.338HSS-E,MULTI-TT 7.6 5*	1
5567 5 77	TW.DR.338HSS-E,MULTI-TT 7.7 5*	1
5567 5 78	TW.DR.338HSS-E,MULTI-TT 7.8 5*	1
5567 5 79	TW.DR.338HSS-E,MULTI-TT 7.9 5*	1

Article No.	Article Description	QTY
5567 5 80	TW.DR.338HSS-E,MULTI-TT 8.0 5*	1
5567 5 81	TW.DR.338HSS-E,MULTI-TT 8.1 5*	1
5567 5 82	TW.DR.338HSS-E,MULTI-TT 8.2 5*	1
5567 5 83	TW.DR.338HSS-E,MULTI-TT 8.3 5*	1
5567 5 84	TW.DR.338HSS-E,MULTI-TT 8.4 5*	1
5567 5 85	TW.DR.338HSS-E,MULTI-TT 8.5 5*	1
5567 5 86	TW.DR.338HSS-E,MULTI-TT 8.6 5*	1
5567 5 87	TW.DR.338HSS-E,MULTI-TT 8.7 5*	1
5567 5 88	TW.DR.338HSS-E,MULTI-TT 8.8 5*	1
5567 5 89	TW.DR.338HSS-E,MULTI-TT 8.9 5*	1
5567 5 90	TW.DR.338HSS-E,MULTI-TT 9.0 5*	1
5567 5 91	TW.DR.338HSS-E,MULTI-TT 9.1 5*	1
5567 5 92	TW.DR.338HSS-E,MULTI-TT 9.2 5*	1
5567 5 93	TW.DR.338HSS-E,MULTI-TT 9.3 5*	1
5567 5 94	TW.DR.338HSS-E,MULTI-TT 9.4 5*	1
5567 5 95	TW.DR.338HSS-E,MULTI-TT 9.5 5*	1
5567 5 96	TW.DR.338HSS-E,MULTI-TT 9.6 5*	1
5567 5 97	TW.DR.338HSS-E,MULTI-TT 9.7 5*	1
5567 5 98	TW.DR.338HSS-E,MULTI-TT 9.8 5*	1
5567 5 99	TW.DR.338HSS-E,MULTI-TT 9.9 5*	1
5567 5 100	TW.DR.338HSSE,MULTI-TT 10.0 5*	1
5567 5 101	TW.DR.338HSSE,MULTI-TT 10.1 5*	1
5567 5 102	TW.DR.338HSSE,MULTI-TT 10.2 5*	1
5567 5 103	TW.DR.338HSSE,MULTI-TT 10.3 5*	1
5567 5 104	TW.DR.338HSSE,MULTI-TT 10.4 5*	1
5567 5 105	TW.DR.338HSSE,MULTI-TT 10.5 5*	1
5567 5 110	TW.DR.338HSSE,MULTI-TT 11.0 5*	1
5567 5 115	TW.DR.338HSSE,MULTI-TT 11.5 5*	1
5567 5 120	TW.DR.338HSSE,MULTI-TT 12.0 5*	1
5567 5 125	TW.DR.338HSSE,MULTI-TT 12.5 5*	1
5567 5 130	TW.DR.338HSSE,MULTI-TT 13.0 5*	1
5567 5 135	TW.DR.338HSSE,MULTI-TT 13.5 5*	1
5567 5 140	TW.DR.338HSSE,MULTI-TT 14.0 5*	1

Twist Drill Cartridge HSS-E, MULTI-TT **FÖRCH*******

Art. No. 5509 5 5567 19

- 19 pcs. in drill box

Art. No. 5509 5 5567 25

- 25 pcs. in drill box

Article No.	Article Description	QTY
5509 5 5567 19	TW.DR.CARTR.MULTI-TT 1-10 19P.	1
5509 5 5567 25	TW.DR.CARTR.MULTI-TT 1-13 25P.	1

Contents Art. No. 5509 5 5567 19:

- Each 1x twist drill DIN 338 HSS-E, sharpened Ø 1.0 - 10.0 mm (0.5 mm increase)

Contents Art. No. 5509 5 5567 25:

- Each 1x twist drill DIN 338 HSS-E, sharpened Ø 1.0 - 13.0 mm (0.5 mm increase)



5509 5 5567 25

5509 5 5567 19

Twist Drill HSS-E, Multi-TT, Range **FÖRCH*******

- Contents: 62 pieces
- Placement: Ø 1.0 - 6 mm = 4 pieces
- Placement: Ø 6.5 - 10.5 mm = 2 pieces
- 0.5 mm increase

Contents

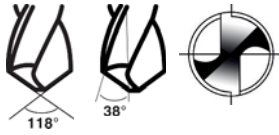
Article No.	Article Description	Quantity
5567 5 10	TW.DR.338HSS-E,MULTI-TT 1.0 5*	4
5567 5 15	TW.DR.338HSS-E,MULTI-TT 1.5 5*	4
5567 5 20	TW.DR.338HSS-E,MULTI-TT 2.0 5*	4
5567 5 25	TW.DR.338HSS-E,MULTI-TT 2.5 5*	4
5567 5 30	TW.DR.338HSS-E,MULTI-TT 3.0 5*	4
5567 5 35	TW.DR.338HSS-E,MULTI-TT 3.5 5*	4
5567 5 40	TW.DR.338HSS-E,MULTI-TT 4.0 5*	4
5567 5 45	TW.DR.338HSS-E,MULTI-TT 4.5 5*	4
5567 5 50	TW.DR.338HSS-E,MULTI-TT 5.0 5*	4
5567 5 55	TW.DR.338HSS-E,MULTI-TT 5.5 5*	4
5567 5 60	TW.DR.338HSS-E,MULTI-TT 6.0 5*	4
5567 5 65	TW.DR.338HSS-E,MULTI-TT 6.5 5*	2
5567 5 70	TW.DR.338HSS-E,MULTI-TT 7.0 5*	2
5567 5 75	TW.DR.338HSS-E,MULTI-TT 7.5 5*	2
5567 5 80	TW.DR.338HSS-E,MULTI-TT 8.0 5*	2
5567 5 85	TW.DR.338HSS-E,MULTI-TT 8.5 5*	2
5567 5 90	TW.DR.338HSS-E,MULTI-TT 9.0 5*	2
5567 5 95	TW.DR.338HSS-E,MULTI-TT 9.5 5*	2
5567 5 100	TW.DR.338HSS-E,MULTI-TT 10.0 5*	2
5567 5 105	TW.DR.338HSS-E,MULTI-TT 10.5 5*	2



Article No.	Article Description	QTY
9000 5567 5	ASSORT.TW.DR.338 MULTI TT 5*	1
9000R 5567 5	TRAY.TW.DRILL HSSE MULTI TT 5*	1

Twist Drill HSS-E, Ground, STEAM **FÖRCH*******

- DIN 338, cylindrical, short
- 38° helix angle
- 118° point angle
- 5 % cobalt alloy
- Split point from 1mm Ø
- Optimum drilling depth 3x drill Ø
- Right-hand cutting



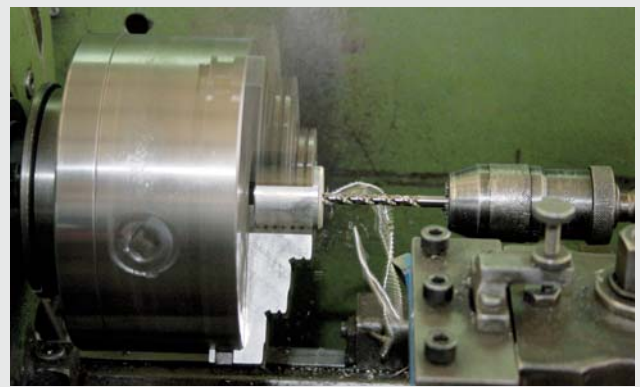
5566 5 10 – 140

Your Advantage / Benefit

- **Self centring** due to split point, precise drilling control, no centre punch necessary
- **Increased service life** due to improved geometry and cutting stability with precise drilling performance and increased dimensional stability
- **High resistance to breakage** due to optimised elasticity
- **Excellent chip removal**
- **Reduced chuck wear** due to hardened shaft

Application

- Suitable for use in controlled, stationary CNC-controlled and hand-guided machines
- Alloyed and unalloyed steels (up to to 1,000 N/mm² tensile strength), stainless, acid and heat resistant austenitic steels V2A and V4A, titanium and titanium alloy, cast iron, aluminium alloys, copper, brass, bronze etc.



(Continued on next page)

Related Products

- **Impact-Hammer Drill 630 Watt**
Art.-No. 5325 570



- **Drilling and Cutting Paste**
Art.-No. 6580 5820



- **"Epsilon" Safety Glasses**
Art.-No. 5400 905 1



Twist Drill HSS-E, Ground, STEAM **FÖRCH*******

Article No.	Article Description	QTY
5566 5 10	TW.DR.338 HSS-E STEAM 1.0 5*	10
5566 5 11	TW.DR.338 HSS-E STEAM 1.1 5*	10
5566 5 12	TW.DR.338 HSS-E STEAM 1.2 5*	10
5566 5 13	TW.DR.338 HSS-E STEAM 1.3 5*	10
5566 5 14	TW.DR.338 HSS-E STEAM 1.4 5*	10
5566 5 15	TW.DR.338 HSS-E STEAM 1.5 5*	10
5566 5 16	TW.DR.338 HSS-E STEAM 1.6 5*	10
5566 5 17	TW.DR.338 HSS-E STEAM 1.7 5*	10
5566 5 18	TW.DR.338 HSS-E STEAM 1.8 5*	10
5566 5 19	TW.DR.338 HSS-E STEAM 1.9 5*	10
5566 5 20	TW.DR.338 HSS-E STEAM 2.0 5*	10
5566 5 21	TW.DR.338 HSS-E STEAM 2.1 5*	10
5566 5 22	TW.DR.338 HSS-E STEAM 2.2 5*	10
5566 5 23	TW.DR.338 HSS-E STEAM 2.3 5*	10
5566 5 24	TW.DR.338 HSS-E STEAM 2.4 5*	10
5566 5 25	TW.DR.338 HSS-E STEAM 2.5 5*	10
5566 5 26	TW.DR.338 HSS-E STEAM 2.6 5*	10
5566 5 27	TW.DR.338 HSS-E STEAM 2.7 5*	10
5566 5 28	TW.DR.338 HSS-E STEAM 2.8 5*	10
5566 5 29	TW.DR.338 HSS-E STEAM 2.9 5*	10
5566 5 30	TW.DR.338 HSS-E STEAM 3.0 5*	10
5566 5 31	TW.DR.338 HSS-E STEAM 3.1 5*	10
5566 5 32	TW.DR.338 HSS-E STEAM 3.2 5*	10
5566 5 33	TW.DR.338 HSS-E STEAM 3.3 5*	10
5566 5 34	TW.DR.338 HSS-E STEAM 3.4 5*	10
5566 5 35	TW.DR.338 HSS-E STEAM 3.5 5*	10
5566 5 36	TW.DR.338 HSS-E STEAM 3.6 5*	10
5566 5 37	TW.DR.338 HSS-E STEAM 3.7 5*	10
5566 5 38	TW.DR.338 HSS-E STEAM 3.8 5*	10
5566 5 39	TW.DR.338 HSS-E STEAM 3.9 5*	10
5566 5 40	TW.DR.338 HSS-E STEAM 4.0 5*	10
5566 5 41	TW.DR.338 HSS-E STEAM 4.1 5*	10
5566 5 42	TW.DR.338 HSS-E STEAM 4.2 5*	10
5566 5 43	TW.DR.338 HSS-E STEAM 4.3 5*	10
5566 5 44	TW.DR.338 HSS-E STEAM 4.4 5*	10
5566 5 45	TW.DR.338 HSS-E STEAM 4.5 5*	10
5566 5 46	TW.DR.338 HSS-E STEAM 4.6 5*	10
5566 5 47	TW.DR.338 HSS-E STEAM 4.7 5*	10
5566 5 48	TW.DR.338 HSS-E STEAM 4.8 5*	10
5566 5 49	TW.DR.338 HSS-E STEAM 4.9 5*	10
5566 5 50	TW.DR.338 HSS-E STEAM 5.0 5*	10
5566 5 51	TW.DR.338 HSS-E STEAM 5.1 5*	5
5566 5 52	TW.DR.338 HSS-E STEAM 5.2 5*	5
5566 5 53	TW.DR.338 HSS-E STEAM 5.3 5*	5
5566 5 54	TW.DR.338 HSS-E STEAM 5.4 5*	5
5566 5 55	TW.DR.338 HSS-E STEAM 5.5 5*	5
5566 5 56	TW.DR.338 HSS-E STEAM 5.6 5*	5
5566 5 57	TW.DR.338 HSS-E STEAM 5.7 5*	5
5566 5 58	TW.DR.338 HSS-E STEAM 5.8 5*	5
5566 5 59	TW.DR.338 HSS-E STEAM 5.9 5*	5
5566 5 60	TW.DR.338 HSS-E STEAM 6.0 5*	e 5
5566 5 61	TW.DR.338 HSS-E STEAM 6.1 5*	e 5
5566 5 62	TW.DR.338 HSS-E STEAM 6.2 5*	e 5
5566 5 63	TW.DR.338 HSS-E STEAM 6.3 5*	e 5
5566 5 64	TW.DR.338 HSS-E STEAM 6.4 5*	e 5
5566 5 65	TW.DR.338 HSS-E STEAM 6.5 5*	e 5
5566 5 66	TW.DR.338 HSS-E STEAM 6.6 5*	e 5
5566 5 67	TW.DR.338 HSS-E STEAM 6.7 5*	e 5
5566 5 68	TW.DR.338 HSS-E STEAM 6.8 5*	e 5
5566 5 69	TW.DR.338 HSS-E STEAM 6.9 5*	e 5
5566 5 70	TW.DR.338 HSS-E STEAM 7.0 5*	e 5
5566 5 71	TW.DR.338 HSS-E STEAM 7.1 5*	e 5
5566 5 72	TW.DR.338 HSS-E STEAM 7.2 5*	e 5
5566 5 73	TW.DR.338 HSS-E STEAM 7.3 5*	e 5
5566 5 74	TW.DR.338 HSS-E STEAM 7.4 5*	e 5
5566 5 75	TW.DR.338 HSS-E STEAM 7.5 5*	e 5
5566 5 76	TW.DR.338 HSS-E STEAM 7.6 5*	1
5566 5 77	TW.DR.338 HSS-E STEAM 7.7 5*	1

Technical Data:

Drill Ø mm	Total length mm	Flute length mm
1.0	34	12
1.1	36	14
1.2	38	16
1.3	38	16
1.4	40	18
1.5	40	18
1.6	43	20
1.7	43	20
1.8	46	22
1.9	46	22
2.0	49	24
2.1	49	24
2.2	53	27
2.3	53	27
2.4	57	30
2.5	57	30
2.6	57	30
2.7	61	33
2.8	61	33
2.9	61	33
3.0	61	33
3.1	65	36
3.2	65	36
3.3	65	36
3.4	70	39
3.5	70	39
3.6	70	39
3.7	70	39
3.8	75	43
3.9	75	43
4.0	75	43
4.1	75	43
4.2	75	43
4.3	80	47
4.4	80	47
4.5	80	47
4.6	80	47
4.7	80	47
4.8	86	52
4.9	86	52
5.0	86	52
5.1	86	52
5.2	86	52
5.3	86	52
5.4	93	57
5.5	93	57
5.6	93	57
5.7	93	57
5.8	93	57
5.9	93	57
6.0	93	57
6.1	101	63
6.2	101	63
6.3	101	63
6.4	101	63
6.5	101	63
6.6	101	63
6.7	101	63
6.8	109	69
6.9	109	69
7.0	109	69
7.1	109	69
7.2	109	69
7.3	109	69
7.4	109	69
7.5	109	69
7.6	117	75
7.7	117	75

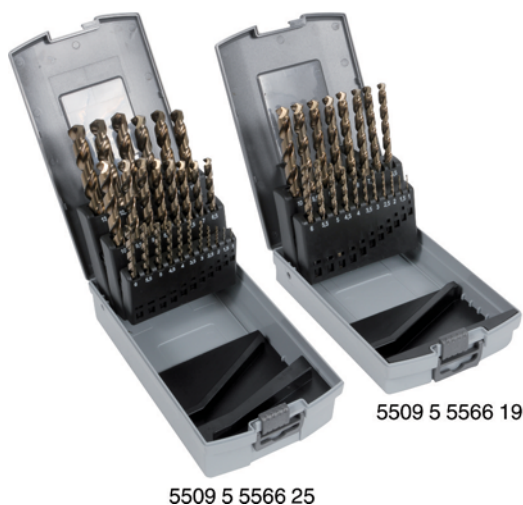
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Twist Drill HSS-E, Ground, STEAM **FÖRCH*******

Article No.	Article Description	QTY
5566 5 78	TW.DR.338 HSS-E STEAM 7.8 5*	1
5566 5 79	TW.DR.338 HSS-E STEAM 7.9 5*	1
5566 5 80	TW.DR.338 HSS-E STEAM 8.0 5*	1
5566 5 81	TW.DR.338 HSS-E STEAM 8.1 5*	1
5566 5 82	TW.DR.338 HSS-E STEAM 8.2 5*	1
5566 5 83	TW.DR.338 HSS-E STEAM 8.3 5*	1
5566 5 84	TW.DR.338 HSS-E STEAM 8.4 5*	1
5566 5 85	TW.DR.338 HSS-E STEAM 8.5 5*	1
5566 5 86	TW.DR.338 HSS-E STEAM 8.6 5*	1
5566 5 87	TW.DR.338 HSS-E STEAM 8.7 5*	1
5566 5 88	TW.DR.338 HSS-E STEAM 8.8 5*	1
5566 5 89	TW.DR.338 HSS-E STEAM 8.9 5*	1
5566 5 90	TW.DR.338 HSS-E STEAM 9.0 5*	1
5566 5 91	TW.DR.338 HSS-E STEAM 9.1 5*	1
5566 5 92	TW.DR.338 HSS-E STEAM 9.2 5*	1
5566 5 93	TW.DR.338 HSS-E STEAM 9.3 5*	1
5566 5 94	TW.DR.338 HSS-E STEAM 9.4 5*	1
5566 5 95	TW.DR.338 HSS-E STEAM 9.5 5*	1
5566 5 96	TW.DR.338 HSS-E STEAM 9.6 5*	1
5566 5 97	TW.DR.338 HSS-E STEAM 9.7 5*	1
5566 5 98	TW.DR.338 HSS-E STEAM 9.8 5*	1
5566 5 99	TW.DR.338 HSS-E STEAM 9.9 5*	1
5566 5 100	TW.DR.338 HSS-E STEAM 10.0 5*	1
5566 5 101	TW.DR.338 HSS-E STEAM 10.1 5*	1
5566 5 102	TW.DR.338 HSS-E STEAM 10.2 5*	1
5566 5 103	TW.DR.338 HSS-E STEAM 10.3 5*	1
5566 5 104	TW.DR.338 HSS-E STEAM 10.4 5*	1
5566 5 105	TW.DR.338 HSS-E STEAM 10.5 5*	1
5566 5 110	TW.DR.338 HSS-E STEAM 11.0 5*	1
5566 5 115	TW.DR.338 HSS-E STEAM 11.5 5*	1
5566 5 120	TW.DR.338 HSS-E STEAM 12.0 5*	1
5566 5 125	TW.DR.338 HSS-E STEAM 12.5 5*	1
5566 5 130	TW.DR.338 HSS-E STEAM 13.0 5*	1
5566 5 135	TW.DR.338 HSS-E STEAM 13.5 5*	1
5566 5 140	TW.DR.338 HSS-E STEAM 14.0 5*	1

Technical Data:		
7.8	117	75
7.9	117	75
8.0	117	75
8.1	117	75
8.2	117	75
8.3	117	75
8.4	117	75
8.5	117	75
8.6	125	81
8.7	125	81
8.8	125	81
8.9	125	81
9.0	125	81
9.1	125	81
9.2	125	81
9.3	125	81
9.4	125	81
9.5	125	81
9.6	133	87
9.7	133	87
9.8	133	87
9.9	133	87
10.0	133	87
10.1	133	87
10.2	133	87
10.3	133	87
10.4	133	87
10.5	133	87
11.0	142	94
11.5	142	94
12.0	142	94
12.5	142	94
13.0	142	94
13.5	151	101
14.0	160	108

Twist Drill HSS-E, Box / Assortment **FÖRCH*******



Contents:

Art. No. 5509 5 5566 19:

- 19 pcs.
- each 1x Ø 1.0 – 10.0 mm (0.5 mm increase)

Art. No. 5509 5 5566 25:

- 25 pcs.
- each 1x Ø 1.0 – 13.0 mm (0.5 mm increase)

Art. No. 9000 55 66 5:

- 62 pcs.
- each 4x Ø 1.0 – 6.0 mm (0.5 mm increase)
- each 2x Ø 6.5 – 10.5 mm (0.5 mm increase)

Article No.	Article Description	QTY
5509 5 5566 19	DRILL BOX STEAM 1-10 19PCS.5*	1
5509 5 5566 25	DRILL BOX STEAM 1-13 25PCE 5*	1
9000 5566 5	ASSORT.TW.DR.338 HSSE STEAM 5*	1
9000R 5566 5	TRAY.TW.DRILL338 HSSE STEAM 5*	1

Twist Drill HSS-E, Polished, MULTI-INOX FORCH*****

- The specialist for trade, vehicles, industry
- 5 % cobalt alloy
- Ideal for use in hand-guided machines
- Minimised effort due to improved geometry of the cut
- Improved drilling speed
- Pinpoint accuracy when drilling, no punches needed
- Precise drilling rate and improved accuracy
- Great break resistance due to optimum elasticity
- 3-edged shaft prevents skidding in the drill chuck due to frictional connection
- Reduced wear and tear of the drill chuck
- Optimum power transmission from the shaft to the tip
- 40° angle of twist 38° angle of twist
- Right-hand cutting
- DIN 338 short cylindrical
- Split point from Ø 3 mm
- Tip angle 135°
- 3-edged shaft from Ø 4 mm



shaft polished 120°



Application:

- Alloy and non-alloy steel (up to 900 N/mm² tensile strength).
- Rust, acid and heat resistant austenitic steel V2A and V4A, titanium and titanium alloys, cast iron, aluminium, aluminium alloys, cooper, brass, bronze etc.

Technical Data / Approximate speed recommendation in 1/rpm

Drill Ø	Steel HSS twist drill	Stainless steel HSS-E twist drill	Aluminium HSS twist drill	Brass HSS twist drill	Plastics HSS twist drill
1 mm	2,800	2,200	5,500	4,500	2,500
2 mm	2,600	2,000	5,000	4,000	2,300
3 mm	2,200	1,600	4,500	3,500	1,900
4 mm	1,800	1,250	4,000	3,100	1,500
5 mm	1,500	1,000	3,500	2,750	1,250
6 mm	1,250	800	3,050	2,400	1,050
7 mm	1,060	660	2,650	2,100	900
8 mm	900	560	2,330	1,800	775
9 mm	770	490	2,000	1,540	660
10 mm	660	430	1,730	1,300	580
11 mm	580	375	1,480	1,080	510
12 mm	510	330	1,250	860	450
13 mm	450	300	1,050	700	400

Article No.	Article Description	QTY
5506 5 10	TWIST DRILL 338 MULTI-INOX 1.0	10
5506 5 15	TWIST DRILL 338 MULTI-INOX 1.5	10
5506 5 20	TWIST DRILL 338 MULTI-INOX 2.0	10
5506 5 25	TWIST DRILL 338 MULTI-INOX 2.5	10
5506 5 30	TWIST DRILL 338 MULTI-INOX 3.0	10
5506 5 32	TWIST DRILL 338 MULTI-INOX 3.2	10
5506 5 33	TWIST DRILL 338 MULTI-INOX 3.3	10
5506 5 35	TWIST DRILL 338 MULTI-INOX 3.5	10
5506 5 40	TWIST DRILL 338 MULTI-INOX 4.0	10
5506 5 41	TWIST DRILL 338 MULTI-INOX 4.1	10
5506 5 42	TWIST DRILL 338 MULTI-INOX 4.2	10
5506 5 45	TWIST DRILL 338 MULTI-INOX 4.5	10
5506 5 50	TWIST DRILL 338 MULTI-INOX 5.0	10
5506 5 51	TWIST DRILL 338 MULTI-INOX 5.1	10
5506 5 52	TWIST DRILL 338 MULTI-INOX 5.2	10
5506 5 55	TWIST DRILL 338 MULTI-INOX 5.5	10
5506 5 60	TWIST DRILL 338 MULTI-INOX 6.0	e 10

Article No.	Article Description	QTY
5506 5 65	TWIST DRILL 338 MULTI-INOX 6.5	e 5
5506 5 68	TWIST DRILL 338 MULTI-INOX 6.8	e 5
5506 5 70	TWIST DRILL 338 MULTI-INOX 7.0	e 5
5506 5 75	TWIST DRILL 338 MULTI-INOX 7.5	e 5
5506 5 80	TWIST DRILL 338 MULTI-INOX 8.0	e 5
5506 5 85	TWIST DRILL 338 MULTI-INOX 8.5	e 5
5506 5 90	TWIST DRILL 338 MULTI-INOX 9.0	e 5
5506 5 95	TWIST DRILL 338 MULTI-INOX 9.5	e 5
5506 5 100	TWIST DRILL 338 MULTI-INOX 10.0	e 5
5506 5 102	TWIST DRILL 338 MULTI-INOX 10.2	e 5
5506 5 105	TWIST DR. 338 MULTI-INOX 10.5	1
5506 5 110	TWIST DR. 338 MULTI-INOX 11.0	1
5506 5 115	TWIST DR. 338 MULTI-INOX 11.5	1
5506 5 120	TWIST DR. 338 MULTI-INOX 12.0	1
5506 5 125	TWIST DR. 338 MULTI-INOX 12.5	1
5506 5 130	TWIST DR. 338 MULTI-INOX 13.0	1

Twist Drill Cartridge HSS-E, MULTI-INOX FORCH****

Art. No. 5509 5 5506 19

- 19 pcs. in drill box

Art. No. 5509 5 5506 25

- 25 pcs. in drill box

Article No.	Article Description	QTY
5509 5 5506 19	TW.DR.CARTR.MULTI-INOX 1-10 5*	1
5509 5 5506 25	TW.DR.CARTR.MULTI-INOX 1-13 5*	1

Contents Art. No. 5509 5 5506 19:

- Each 1x twist drill DIN 338 HSS-E, sharpened Ø 1.0 – 10.0 mm (0.5 mm increase)

Contents Art. No. 5509 5 5506 25:

- Each 1x twist drill DIN 338 HSS-E, sharpened Ø 1.0 – 13.0 mm (0.5 mm increase)



5509 5 5506 25

Twist Drill HSS-E, MULTI-INOX, Assortment FORCH****

- Contents: 62 pieces
- Placement: Ø 1.0 – 6 mm = 4 pieces
- Placement: Ø 6.5 – 10.5 mm = 2 pieces
- 0.5 mm increase

Contents

Article No.	Article Description	Quantity
5506 5 10	TWIST DRILL 338 MULTI-INOX 1.0	4
5506 5 15	TWIST DRILL 338 MULTI-INOX 1.5	4
5506 5 20	TWIST DRILL 338 MULTI-INOX 2.0	4
5506 5 25	TWIST DRILL 338 MULTI-INOX 2.5	4
5506 5 30	TWIST DRILL 338 MULTI-INOX 3.0	4
5506 5 35	TWIST DRILL 338 MULTI-INOX 3.5	4
5506 5 40	TWIST DRILL 338 MULTI-INOX 4.0	4
5506 5 45	TWIST DRILL 338 MULTI-INOX 4.5	4
5506 5 50	TWIST DRILL 338 MULTI-INOX 5.0	4
5506 5 55	TWIST DRILL 338 MULTI-INOX 5.5	4
5506 5 60	TWIST DRILL 338 MULTI-INOX 6.0	4
5506 5 65	TWIST DRILL 338 MULTI-INOX 6.5	2
5506 5 70	TWIST DRILL 338 MULTI-INOX 7.0	2
5506 5 75	TWIST DRILL 338 MULTI-INOX 7.5	2
5506 5 80	TWIST DRILL 338 MULTI-INOX 8.0	2
5506 5 85	TWIST DRILL 338 MULTI-INOX 8.5	2
5506 5 90	TWIST DRILL 338 MULTI-INOX 9.0	2
5506 5 95	TWIST DRILL 338 MULTI-INOX 9.5	2
5506 5 100	TWIST DRILL 338 MULTI-INOX 10.0	2
5506 5 105	TWIST DR. 338 MULTI-INOX 10.5	2



Article No.	Article Description	QTY
9000 5506 5	ASSORT.TW.DR.338 MULTI INOX 5*	1
9000R 5506 5	TRAY.TW.DRILL338 MULTI-INOX 5*	1

Twist Drill DIN 338 HSS-TIAN, Ground Type W

- Titan-aluminium-nitride coating
- Right-hand cutting
- Split point (from Ø 2.0 mm)
- Point angle 130°
- Helix angle 40°
- Ø-tolerance h8
- This drill has a high surface hardness due to a titanium-aluminium-nitride coating, thus it has a considerably higher service life and is more resistant to abrasion.
- Higher cutting speeds and less chipping forces necessary
- Ideally suitable for drilling materials that are medium and long chipping and hard to machine
- Especially suitable for drilling deep holes



Applications:

- For alloyed and unalloyed steels (up to approx. 1,200 N/mm² strength), high-alloyed chromium steel such as stainless and acid resistant steel, titanium, titanium alloy, cast iron, aluminium, aluminium alloy, copper, brass, bronze etc.

Article No.	Article Description	QTY
5516 10	TWIST DRILL TL 338 TIAN 1.0	10
5516 11	TWIST DRILL TL 338 TIAN 1.1	10
5516 12	TWIST DRILL TL 338 TIAN 1.2	10
5516 13	TWIST DRILL TL 338 TIAN 1.3	10
5516 14	TWIST DRILL TL 338 TIAN 1.4	10
5516 15	TWIST DRILL TL 338 TIAN 1.5	10
5516 16	TWIST DRILL TL 338 TIAN 1.6	10
5516 17	TWIST DRILL TL 338 TIAN 1.7	10
5516 18	TWIST DRILL TL 338 TIAN 1.8	10
5516 19	TWIST DRILL TL 338 TIAN 1.9	10
5516 20	TWIST DRILL TL 338 TIAN 2.0	10
5516 21	TWIST DRILL TL 338 TIAN 2.1	10
5516 22	TWIST DRILL TL 338 TIAN 2.2	10
5516 23	TWIST DRILL TL 338 TIAN 2.3	10
5516 24	TWIST DRILL TL 338 TIAN 2.4	10
5516 25	TWIST DRILL TL 338 TIAN 2.5	10
5516 26	TWIST DRILL TL 338 TIAN 2.6	10
5516 27	TWIST DRILL TL 338 TIAN 2.7	10
5516 28	TWIST DRILL TL 338 TIAN 2.8	10
5516 29	TWIST DRILL TL 338 TIAN 2.9	10
5516 30	TWIST DRILL TL 338 TIAN 3.0	10
5516 31	TWIST DRILL TL 338 TIAN 3.1	10
5516 32	TWIST DRILL TL 338 TIAN 3.2	10
5516 33	TWIST DRILL TL 338 TIAN 3.3	10
5516 34	TWIST DRILL TL 338 TIAN 3.4	10
5516 35	TWIST DRILL TL 338 TIAN 3.5	10
5516 36	TWIST DRILL TL 338 TIAN 3.6	10
5516 37	TWIST DRILL TL 338 TIAN 3.7	10
5516 38	TWIST DRILL TL 338 TIAN 3.8	10
5516 39	TWIST DRILL TL 338 TIAN 3.9	10
5516 40	TWIST DRILL TL 338 TIAN 4.0	10
5516 41	TWIST DRILL TL 338 TIAN 4.1	10
5516 42	TWIST DRILL TL 338 TIAN 4.2	10
5516 43	TWIST DRILL TL 338 TIAN 4.3	10
5516 44	TWIST DRILL TL 338 TIAN 4.4	10
5516 45	TWIST DRILL TL 338 TIAN 4.5	10
5516 46	TWIST DRILL TL 338 TIAN 4.6	10
5516 47	TWIST DRILL TL 338 TIAN 4.7	10
5516 48	TWIST DRILL TL 338 TIAN 4.8	10
5516 49	TWIST DRILL TL 338 TIAN 4.9	10
5516 50	TWIST DRILL TL 338 TIAN 5.0	10
5516 51	TWIST DRILL TL 338 TIAN 5.1	10
5516 52	TWIST DRILL TL 338 TIAN 5.2	10
5516 53	TWIST DRILL TL 338 TIAN 5.3	10
5516 54	TWIST DRILL TL 338 TIAN 5.4	10
5516 55	TWIST DRILL TL 338 TIAN 5.5	10
5516 56	TWIST DRILL TL 338 TIAN 5.6	10
5516 57	TWIST DRILL TL 338 TIAN 5.7	10
5516 58	TWIST DRILL TL 338 TIAN 5.8	10
5516 59	TWIST DRILL TL 338 TIAN 5.9	10
5516 60	TWIST DRILL TL 338 TIAN 6.0	e 10
5516 61	TWIST DRILL TL 338 TIAN 6.1	e 10

Article No.	Article Description	QTY
5516 62	TWIST DRILL TL 338 TIAN 6.2	e 10
5516 63	TWIST DRILL TL 338 TIAN 6.3	e 10
5516 64	TWIST DRILL TL 338 TIAN 6.4	e 10
5516 65	TWIST DRILL TL 338 TIAN 6.5	e 10
5516 66	TWIST DRILL TL 338 TIAN 6.6	e 10
5516 67	TWIST DRILL TL 338 TIAN 6.7	e 10
5516 68	TWIST DRILL TL 338 TIAN 6.8	e 10
5516 69	TWIST DRILL TL 338 TIAN 6.9	e 10
5516 70	TWIST DRILL TL 338 TIAN 7.0	e 10
5516 71	TWIST DRILL TL 338 TIAN 7.1	e 10
5516 72	TWIST DRILL TL 338 TIAN 7.2	e 10
5516 73	TWIST DRILL TL 338 TIAN 7.3	e 10
5516 74	TWIST DRILL TL 338 TIAN 7.4	e 10
5516 75	TWIST DRILL TL 338 TIAN 7.5	e 10
5516 76	TWIST DRILL TL 338 TIAN 7.6	e 10
5516 77	TWIST DRILL TL 338 TIAN 7.7	e 10
5516 78	TWIST DRILL TL 338 TIAN 7.8	e 10
5516 79	TWIST DRILL TL 338 TIAN 7.9	e 10
5516 80	TWIST DRILL TL 338 TIAN 8.0	e 10
5516 81	TWIST DRILL TL 338 TIAN 8.1	e 10
5516 82	TWIST DRILL TL 338 TIAN 8.2	e 10
5516 83	TWIST DRILL TL 338 TIAN 8.3	e 10
5516 84	TWIST DRILL TL 338 TIAN 8.4	e 10
5516 85	TWIST DRILL TL 338 TIAN 8.5	e 10
5516 86	TWIST DRILL TL 338 TIAN 8.6	e 10
5516 87	TWIST DRILL TL 338 TIAN 8.7	e 10
5516 88	TWIST DRILL TL 338 TIAN 8.8	e 10
5516 89	TWIST DRILL TL 338 TIAN 8.9	e 10
5516 90	TWIST DRILL TL 338 TIAN 9.0	e 10
5516 91	TWIST DRILL TL 338 TIAN 9.1	e 10
5516 92	TWIST DRILL TL 338 TIAN 9.2	e 10
5516 93	TWIST DRILL TL 338 TIAN 9.3	e 10
5516 94	TWIST DRILL TL 338 TIAN 9.4	e 10
5516 95	TWIST DRILL TL 338 TIAN 9.5	e 10
5516 96	TWIST DRILL TL 338 TIAN 9.6	e 10
5516 97	TWIST DRILL TL 338 TIAN 9.7	e 10
5516 98	TWIST DRILL TL 338 TIAN 9.8	e 10
5516 99	TWIST DRILL TL 338 TIAN 9.9	e 10
5516 100	TWIST DRILL TL 338 TIAN 10.0	e 10
5516 102	TWIST DRILL TL 338 TIAN 10.2	e 10
5516 105	TWIST DRILL TL 338 TIAN 10.5	e 5
5516 110	TWIST DRILL TL 338 TIAN 11.0	e 5
5516 115	TWIST DRILL TL 338 TIAN 11.5	e 5
5516 120	TWIST DRILL TL 338 TIAN 12.0	e 5
5516 125	TWIST DRILL TL 338 TIAN 12.5	e 5
5516 130	TWIST DRILL TL 338 TIAN 13.0	e 5
5516 135	TWIST DRILL TL 338 TIAN 13.5	e 5
5516 140	TWIST DRILL TL 338 TIAN 14.0	e 5
5516 145	TWIST DRILL TL 338 TIAN 14.5	e 5
5516 150	TWIST DRILL TL 338 TIAN 15.0	e 5
5516 155	TWIST DRILL TL 338 TIAN 15.5	e 5
5516 160	TWIST DRILL TL 338 TIAN 16.0	e 5

Twist Drill Set DIN 338 HSS-TIAN, Ground Type W

Art.-No. 5509 5516:

- 19-pcs in drill box

Art.-No. 5509 5516 2:

- 25-pcs in drill box

Art.-No. 5509 5516 1:

- 38-pcs in plastic case in VAROsoft contured lining Art.-No. 9026 610

Article No.	Article Description	QTY
5509 5516	TW.DRILL BOX TIAN 1.0-10.0 19P	1
5509 5516 2	TW.DRILL BOX TIAN 1.0-13.0 25P	1
5509 5516 1	VS-DRILL BOX TIAN 1-10MM 38PCS	1

Contents Art.-No. 5509 5516:

- Each 1x twist drill DIN 338 HSS-TiAIN, ground type W
Ø 1.0 – 10.0 mm, (increments of 0.5 mm)

Contents Art.-No. 5509 5516 2:

- Each 1x twist drill DIN 338 HSS-TiAIN, ground type W
Ø 1.0 – 13.0 mm, (increments of 0.5 mm)

Contents Art.-No. 5509 5516 1:

- Each 1x twist drill DIN 338 HSS-TiAIN, ground type W
Ø 1.0 – 10.0 mm, (increments of 0.5 mm)



5509 5516

5509 5516 2



5509 5516 1

Twist Drill DIN 338 HSS-E Co 8%, Polished Type N

- The universal drilling tool for working with steel that is very difficult to cut
- 8% cobalt alloy
- DIN 338 short cylindrical
- Right-handed cutting
- Split point from Ø 2.0 mm
- Tip angle 130°
- Angle of twist 36°
- Ø tolerance h8
- Optimum drilling depth 5x drills Ø



Technical Data / Guide values - recommended speed in 1/rpm

Drill Ø	High strength steel
1	1,800
2	1,200
3	800
4	630
5	510
6	420
7	360
8	310
9	280
10	250
11	230
12	210
13	190

Applications:

- Alloy and non-alloyed steel (between 900 N/mm² and 1,300 N/mm² tensile strength), titanium alloys, high strength steel such as Hardox, Hastelloy, Inconel, Nimonic etc.

Article No.	Article Description	QTY
5564 10	TW.DRILL 338 HSS-E CO8% 1.0	e 10
5564 15	TW.DRILL 338 HSS-E CO8% 1.5	10
5564 20	TW.DRILL 338 HSS-E CO8% 2.0	10
5564 25	TW.DRILL 338 HSS-E CO8% 2.5	10
5564 30	TW.DRILL 338 HSS-E CO8% 3.0	10
5564 32	TW.DRILL 338 HSS-E CO8% 3.2	10
5564 33	TW.DRILL 338 HSS-E CO8% 3.3	10
5564 35	TW.DRILL 338 HSS-E CO8% 3.5	10
5564 40	TW.DRILL 338 HSS-E CO8% 4.0	10
5564 41	TW.DRILL 338 HSS-E CO8% 4.1	10
5564 42	TW.DRILL 338 HSS-E CO8% 4.2	10
5564 45	TW.DRILL 338 HSS-E CO8% 4.5	10
5564 50	TW.DRILL 338 HSS-E CO8% 5.0	10
5564 51	TW.DRILL 338 HSS-E CO8% 5.1	10
5564 55	TW.DRILL 338 HSS-E CO8% 5.5	10
5564 60	TW.DRILL 338 HSS-E CO8% 6.0	e 10

Article No.	Article Description	QTY
5564 65	TW.DRILL 338 HSS-E CO8% 6.5	e 10
5564 68	TW.DRILL 338 HSS-E CO8% 6.8	e 10
5564 70	TW.DRILL 338 HSS-E CO8% 7.0	e 10
5564 75	TW.DRILL 338 HSS-E CO8% 7.5	e 10
5564 80	TW.DRILL 338 HSS-E CO8% 8.0	e 10
5564 85	TW.DRILL 338 HSS-E CO8% 8.5	e 10
5564 90	TW.DRILL 338 HSS-E CO8% 9.0	e 10
5564 95	TW.DRILL 338 HSS-E CO8% 9.5	e 10
5564 100	TW.DRILL 338 HSS-E CO8% 10.0	e 10
5564 102	TW.DRILL 338 HSS-E CO8% 10.2	e 10
5564 105	TW.DRILL 338 HSS-E CO8% 10.5	e 5
5564 110	TW.DRILL 338 HSS-E CO8% 11.0	e 5
5564 115	TW.DRILL 338 HSS-E CO8% 11.5	e 5
5564 120	TW.DRILL 338 HSS-E CO8% 12.0	e 5
5564 125	TW.DRILL 338 HSS-E CO8% 12.5	e 5
5564 130	TW.DRILL 338 HSS-E CO8% 13.0	e 5

Twist Drill Set DIN 338 HSS-E Co8%, Polished

- 19 pieces in plastic cassette

Article No.	Article Description	QTY
5509 5564 19	TW.DR.BOX HSS-E CO8%1-10 19PCS	1

Contents:

- Each 1x twist drill DIN 338 HSS-E Co8%, polished type
N Ø 1.0 – 10.0 mm (0.5 mm increase)



Twist Drill Cobalt DIN 338 HSS-E-Co, Ground Type N

- Alloyed with cobalt (5%)
- Cylindrical, short
- Right-hand cutting
- With split point
- Point angle 118°



Applications:

- Stainless steel, steels and cast iron up to approx. 1,000 N/mm², especially warm and cold working steels, antifriction bearing steel, high-alloyed and heat-treated and case-hardened steel as well as spring steel within limits

Article No.	Article Description	QTY
5502 10	TWIST DRILL 338 HSS-E-CO 1.0	10
5502 11	TWIST DRILL 338 HSS-E-CO 1.1	10
5502 12	TWIST DRILL 338 HSS-E-CO 1.2	10
5502 13	TWIST DRILL 338 HSS-E-CO 1.3	10
5502 14	TWIST DRILL 338 HSS-E-CO 1.4	10
5502 15	TWIST DRILL 338 HSS-E-CO 1.5	10
5502 16	TWIST DRILL 338 HSS-E-CO 1.6	10
5502 17	TWIST DRILL 338 HSS-E-CO 1.7	10
5502 18	TWIST DRILL 338 HSS-E-CO 1.8	10
5502 19	TWIST DRILL 338 HSS-E-CO 1.9	10
5502 20	TWIST DRILL 338 HSS-E-CO 2.0	10
5502 21	TWIST DRILL 338 HSS-E-CO 2.1	10
5502 22	TWIST DRILL 338 HSS-E-CO 2.2	10
5502 23	TWIST DRILL 338 HSS-E-CO 2.3	10
5502 24	TWIST DRILL 338 HSS-E-CO 2.4	10
5502 25	TWIST DRILL 338 HSS-E-CO 2.5	10
5502 26	TWIST DRILL 338 HSS-E-CO 2.6	10
5502 27	TWIST DRILL 338 HSS-E-CO 2.7	10
5502 28	TWIST DRILL 338 HSS-E-CO 2.8	10
5502 29	TWIST DRILL 338 HSS-E-CO 2.9	10
5502 30	TWIST DRILL 338 HSS-E-CO 3.0	10
5502 31	TWIST DRILL 338 HSS-E-CO 3.1	10
5502 32	TWIST DRILL 338 HSS-E-CO 3.2	10
5502 33	TWIST DRILL 338 HSS-E-CO 3.3	10
5502 34	TWIST DRILL 338 HSS-E-CO 3.4	10
5502 35	TWIST DRILL 338 HSS-E-CO 3.5	10
5502 36	TWIST DRILL 338 HSS-E-CO 3.6	10
5502 37	TWIST DRILL 338 HSS-E-CO 3.7	10
5502 38	TWIST DRILL 338 HSS-E-CO 3.8	10
5502 39	TWIST DRILL 338 HSS-E-CO 3.9	10
5502 40	TWIST DRILL 338 HSS-E-CO 4.0	10
5502 41	TWIST DRILL 338 HSS-E-CO 4.1	10
5502 42	TWIST DRILL 338 HSS-E-CO 4.2	10
5502 43	TWIST DRILL 338 HSS-E-CO 4.3	10
5502 44	TWIST DRILL 338 HSS-E-CO 4.4	10
5502 45	TWIST DRILL 338 HSS-E-CO 4.5	10
5502 46	TWIST DRILL 338 HSS-E-CO 4.6	10
5502 47	TWIST DRILL 338 HSS-E-CO 4.7	10
5502 48	TWIST DRILL 338 HSS-E-CO 4.8	10
5502 49	TWIST DRILL 338 HSS-E-CO 4.9	10
5502 50	TWIST DRILL 338 HSS-E-CO 5.0	10
5502 51	TWIST DRILL 338 HSS-E-CO 5.1	10
5502 52	TWIST DRILL 338 HSS-E-CO 5.2	10
5502 53	TWIST DRILL 338 HSS-E-CO 5.3	10
5502 54	TWIST DRILL 338 HSS-E-CO 5.4	10
5502 55	TWIST DRILL 338 HSS-E-CO 5.5	10
5502 56	TWIST DRILL 338 HSS-E-CO 5.6	10
5502 57	TWIST DRILL 338 HSS-E-CO 5.7	10
5502 58	TWIST DRILL 338 HSS-E-CO 5.8	10
5502 59	TWIST DRILL 338 HSS-E-CO 5.9	10
5502 60	TWIST DRILL 338 HSS-E-CO 6.0	e 10
5502 61	TWIST DRILL 338 HSS-E-CO 6.1	e 10

Article No.	Article Description	QTY
5502 62	TWIST DRILL 338 HSS-E-CO 6.2	e 10
5502 63	TWIST DRILL 338 HSS-E-CO 6.3	e 10
5502 64	TWIST DRILL 338 HSS-E-CO 6.4	e 10
5502 65	TWIST DRILL 338 HSS-E-CO 6.5	e 10
5502 66	TWIST DRILL 338 HSS-E-CO 6.6	e 10
5502 67	TWIST DRILL 338 HSS-E-CO 6.7	e 10
5502 68	TWIST DRILL 338 HSS-E-CO 6.8	e 10
5502 69	TWIST DRILL 338 HSS-E-CO 6.9	e 10
5502 70	TWIST DRILL 338 HSS-E-CO 7.0	e 10
5502 71	TWIST DRILL 338 HSS-E-CO 7.1	e 10
5502 72	TWIST DRILL 338 HSS-E-CO 7.2	e 10
5502 73	TWIST DRILL 338 HSS-E-CO 7.3	e 10
5502 74	TWIST DRILL 338 HSS-E-CO 7.4	e 10
5502 75	TWIST DRILL 338 HSS-E-CO 7.5	e 10
5502 76	TWIST DRILL 338 HSS-E-CO 7.6	e 10
5502 77	TWIST DRILL 338 HSS-E-CO 7.7	e 10
5502 78	TWIST DRILL 338 HSS-E-CO 7.8	e 10
5502 80	TWIST DRILL 338 HSS-E-CO 8.0	e 10
5502 81	TWIST DRILL 338 HSS-E-CO 8.1	e 10
5502 82	TWIST DRILL 338 HSS-E-CO 8.2	e 10
5502 83	TWIST DRILL 338 HSS-E-CO 8.3	e 10
5502 84	TWIST DRILL 338 HSS-E-CO 8.4	e 10
5502 85	TWIST DRILL 338 HSS-E-CO 8.5	e 10
5502 86	TWIST DRILL 338 HSS-E-CO 8.6	e 10
5502 87	TWIST DRILL 338 HSS-E-CO 8.7	e 10
5502 88	TWIST DRILL 338 HSS-E-CO 8.8	e 10
5502 89	TWIST DRILL 338 HSS-E-CO 8.9	e 10
5502 90	TWIST DRILL 338 HSS-E-CO 9.0	e 10
5502 91	TWIST DRILL 338 HSS-E-CO 9.1	e 10
5502 92	TWIST DRILL 338 HSS-E-CO 9.2	e 10
5502 94	TWIST DRILL 338 HSS-E-CO 9.4	e 10
5502 95	TWIST DRILL 338 HSS-E-CO 9.5	e 10
5502 97	TWIST DRILL 338 HSS-E-CO 9.7	e 10
5502 98	TWIST DRILL 338 HSS-E-CO 9.8	e 10
5502 100	TWIST DRILL 338 HSS-E-CO 10.0	e 10
5502 101	TWIST DRILL 338 HSS-E-CO 10.1	e 5
5502 102	TWIST DRILL 338 HSS-E-CO 10.2	e 5
5502 103	TWIST DRILL 338 HSS-E-CO 10.3	e 5
5502 104	TWIST DRILL 338 HSS-E-CO 10.4	e 5
5502 105	TWIST DRILL 338 HSS-E-CO 10.5	e 5
5502 110	TWIST DRILL 338 HSS-E-CO 11.0	e 5
5502 115	TWIST DRILL 338 HSS-E-CO 11.5	e 5
5502 120	TWIST DRILL 338 HSS-E-CO 12.0	e 5
5502 125	TWIST DRILL 338 HSS-E-CO 12.5	e 5
5502 130	TWIST DRILL 338 HSS-E-CO 13.0	e 5
5502 135	TWIST DRILL 338 HSS-E-CO 13.5	e 5
5502 140	TWIST DRILL 338 HSS-E-CO 14.0	e 5
5502 145	TWIST DRILL 338 HSS-E-CO 14.5	e 5
5502 150	TWIST DRILL 338 HSS-E-CO 15.0	e 5
5502 155	TWIST DRILL 338 HSS-E-CO 15.5	e 5
5502 160	TWIST DRILL 338 HSS-E-CO 16.0	e 5

Twist Drill Set DIN 338 HSS-E-Cobalt, Ground Type N

Art.-No. 5509 5502:

- 19-pcs in drill box

Art.-No. 5509 5502 25:

- 25-pcs in drill box

Article No.	Article Description	QTY
5509 5502	DRILL BOX HSS-CO 1-10 19-PCS	1
5509 5502 25	DRILL BOX HSS-CO 1-13 25-PCS	1

Contents Art.-No. 5509 5502:

- Each 1× twist drill DIN 338 HSS-E, ground type N
Ø 1.0 – 10.0 mm (increments 0.5 mm)

Contents Art.-No. 5509 5502 25:

- Each 1× twist drill DIN 338 HSS-E, ground type N
Ø 1.0 – 13.0 mm (increments 0.5 mm)



5509 5502

5509 5502 25

Twist Drill Titanium DIN 338 HSS-TiN, Ground Type N

- Alloyed with titanium-nitride
- Cylindrical, short
- Right-hand cutting
- Split point from Ø 3 mm
- Point angle 135°



Applications:

- For steel alloyed and unalloyed up to approx. 900 N/mm² strength, steel, Cr-Ni- steel, stainless steel, cast steel, grey and malleable cast iron, copper, bronze, brass, thermostatic plastic (e.g. polyamide), bakelite

Article No.	Article Description	QTY
5503 10	TWIST DRILL 338 TITANIUM 1.0	10
5503 15	TWIST DRILL 338 TITANIUM 1.5	10
5503 20	TWIST DRILL 338 TITANIUM 2.0	10
5503 25	TWIST DRILL 338 TITANIUM 2.5	10
5503 30	TWIST DRILL 338 TITANIUM 3.0	10
5503 32	TWIST DRILL 338 TITANIUM 3.2	10
5503 33	TWIST DRILL 338 TITANIUM 3.3	10
5503 35	TWIST DRILL 338 TITANIUM 3.5	10
5503 40	TWIST DRILL 338 TITANIUM 4.0	10
5503 42	TWIST DRILL 338 TITANIUM 4.2	10
5503 45	TWIST DRILL 338 TITANIUM 4.5	10
5503 50	TWIST DRILL 338 TITANIUM 5.0	10
5503 55	TWIST DRILL 338 TITANIUM 5.5	10
5503 60	TWIST DRILL 338 TITANIUM 6.0	e 10
5503 65	TWIST DRILL 338 TITANIUM 6.5	e 10
5503 68	TWIST DRILL 338 TITANIUM 6.8	e 10
5503 70	TWIST DRILL 338 TITANIUM 7.0	e 10
5503 75	TWIST DRILL 338 TITANIUM 7.5	e 10
5503 80	TWIST DRILL 338 TITANIUM 8.0	e 10
5503 85	TWIST DRILL 338 TITANIUM 8.5	e 10
5503 90	TWIST DRILL 338 TITANIUM 9.0	e 10
5503 95	TWIST DRILL 338 TITANIUM 9.5	e 10
5503 100	TWIST DRILL 338 TITANIUM 10.0	e 10
5503 102	TWIST DRILL 338 TITANIUM 10.2	e 5
5503 105	TWIST DRILL 338 TITANIUM 10.5	e 5
5503 110	TWIST DRILL 338 TITANIUM 11.0	e 5
5503 115	TWIST DRILL 338 TITANIUM 11.5	e 5
5503 120	TWIST DRILL 338 TITANIUM 12.0	e 5
5503 125	TWIST DRILL 338 TITANIUM 12.5	e 5
5503 130	TWIST DRILL 338 TITANIUM 13.0	e 5

Technical Data

Ø mm	Length mm	Groove length mm
1	34	12
1.5	40	18
2.0	49	24
2.5	57	30
3.0	61	33
3.2	65	36
3.3	65	36
3.5	70	39
4.0	75	43
4.2	75	43
4.5	80	47
5.0	86	52
5.5	93	57
6.0	93	57
6.5	101	63
6.8	109	69
7.0	109	69
7.5	109	69
8.0	117	75
8.5	117	75
9.0	125	81
9.5	125	81
10.0	133	87
10.2	133	87
10.5	133	87
11.0	142	94
11.5	142	94
12.0	151	101
12.5	151	101
13.0	151	101

Twist Drill Set DIN 338 HSS-TiN, Ground Type N

Art.-No. 5509 5503:

- 19-pcs in drill box

Art.-No. 5509 5503 1:

- 57-pcs in plastic drill box Art.-No. 4415 14 47 1 in VAROsoft contoured lining Art. No. 9026 610

Article No.	Article Description	QTY
5509 5503	DRILL SET TIN 1.0-10.0 19-PCS	1
5509 5503 1	VS-DRILL BOX TIN 1-10 57-PCS	1

Contents Art.-No. 5509 5503:

- Each 1x twist drill DIN 338 HSS-TiN, ground type N Ø 1.0 – 10.0 mm, (increments of 0.5 mm)

Contents Art.-No. 5509 5503 1:

- Each 3x twist drill DIN 338 HSS-TiN, ground type N Ø 1.0 – 10.0 mm, (increments of 0.5 mm)



5509 5503



5509 5503 1

Twist Drill DIN 338 HSS, Ground Type N

- Cylindrical, short
- Right-hand cutting
- Split point from Ø 3 mm
- Point angle 135°
- For highest precision



Applications:

- For drillings in steel and cast steel up to approx. 900 N/mm² strength, alloyed and non-alloyed steels, steel, cast iron, sintered metals, wood-plastics, graphite, bronze, brass

Article No.	Article Description	QTY
5501 04	TWIST DRILL 338 GROUND 0.4	10
5501 05	TWIST DRILL 338 GROUND 0.5	10
5501 06	TWIST DRILL 338 GROUND 0.6	10
5501 07	TWIST DRILL 338 GROUND 0.7	10
5501 08	TWIST DRILL 338 GROUND 0.8	10
5501 09	TWIST DRILL 338 GROUND 0.9	10
5501 10	TWIST DRILL 338 GROUND 1.0	10
5501 11	TWIST DRILL 338 GROUND 1.1	10
5501 12	TWIST DRILL 338 GROUND 1.2	10
5501 13	TWIST DRILL 338 GROUND 1.3	10
5501 14	TWIST DRILL 338 GROUND 1.4	10
5501 15	TWIST DRILL 338 GROUND 1.5	10
5501 16	TWIST DRILL 338 GROUND 1.6	10
5501 17	TWIST DRILL 338 GROUND 1.7	10
5501 18	TWIST DRILL 338 GROUND 1.8	10
5501 19	TWIST DRILL 338 GROUND 1.9	10
5501 20	TWIST DRILL 338 GROUND 2.0	10
5501 21	TWIST DRILL 338 GROUND 2.1	10
5501 22	TWIST DRILL 338 GROUND 2.2	10
5501 23	TWIST DRILL 338 GROUND 2.3	10
5501 24	TWIST DRILL 338 GROUND 2.4	10
5501 25	TWIST DRILL 338 GROUND 2.5	10
5501 26	TWIST DRILL 338 GROUND 2.6	10
5501 27	TWIST DRILL 338 GROUND 2.7	10
5501 28	TWIST DRILL 338 GROUND 2.8	10
5501 29	TWIST DRILL 338 GROUND 2.9	10
5501 30	TWIST DRILL 338 GROUND 3.0	10
5501 31	TWIST DRILL 338 GROUND 3.1	10
5501 32	TWIST DRILL 338 GROUND 3.2	10
5501 33	TWIST DRILL 338 GROUND 3.3	10
5501 34	TWIST DRILL 338 GROUND 3.4	10
5501 35	TWIST DRILL 338 GROUND 3.5	10
5501 36	TWIST DRILL 338 GROUND 3.6	10
5501 37	TWIST DRILL 338 GROUND 3.7	10
5501 38	TWIST DRILL 338 GROUND 3.8	10
5501 39	TWIST DRILL 338 GROUND 3.9	10
5501 40	TWIST DRILL 338 GROUND 4.0	10
5501 41	TWIST DRILL 338 GROUND 4.1	10
5501 42	TWIST DRILL 338 GROUND 4.2	10
5501 43	TWIST DRILL 338 GROUND 4.3	10
5501 44	TWIST DRILL 338 GROUND 4.4	10
5501 45	TWIST DRILL 338 GROUND 4.5	10
5501 46	TWIST DRILL 338 GROUND 4.6	10
5501 47	TWIST DRILL 338 GROUND 4.7	10
5501 48	TWIST DRILL 338 GROUND 4.8	10
5501 49	TWIST DRILL 338 GROUND 4.9	10
5501 50	TWIST DRILL 338 GROUND 5.0	10
5501 51	TWIST DRILL 338 GROUND 5.1	10
5501 52	TWIST DRILL 338 GROUND 5.2	10
5501 53	TWIST DRILL 338 GROUND 5.3	10
5501 54	TWIST DRILL 338 GROUND 5.4	10
5501 55	TWIST DRILL 338 GROUND 5.5	10
5501 56	TWIST DRILL 338 GROUND 5.6	10
5501 57	TWIST DRILL 338 GROUND 5.7	10
5501 58	TWIST DRILL 338 GROUND 5.8	10
5501 59	TWIST DRILL 338 GROUND 5.9	10
5501 60	TWIST DRILL 338 GROUND 6.0	10
5501 61	TWIST DRILL 338 GROUND 6.1	10
5501 62	TWIST DRILL 338 GROUND 6.2	10

Article No.	Article Description	QTY
5501 63	TWIST DRILL 338 GROUND 6.3	10
5501 64	TWIST DRILL 338 GROUND 6.4	10
5501 65	TWIST DRILL 338 GROUND 6.5	10
5501 66	TWIST DRILL 338 GROUND 6.6	10
5501 67	TWIST DRILL 338 GROUND 6.7	10
5501 68	TWIST DRILL 338 GROUND 6.8	10
5501 69	TWIST DRILL 338 GROUND 6.9	10
5501 70	TWIST DRILL 338 GROUND 7.0	10
5501 71	TWIST DRILL 338 GROUND 7.1	10
5501 72	TWIST DRILL 338 GROUND 7.2	10
5501 73	TWIST DRILL 338 GROUND 7.3	10
5501 74	TWIST DRILL 338 GROUND 7.4	10
5501 75	TWIST DRILL 338 GROUND 7.5	10
5501 76	TWIST DRILL 338 GROUND 7.6	10
5501 77	TWIST DRILL 338 GROUND 7.7	10
5501 78	TWIST DRILL 338 GROUND 7.8	10
5501 80	TWIST DRILL 338 GROUND 8.0	10
5501 81	TWIST DRILL 338 GROUND 8.1	10
5501 82	TWIST DRILL 338 GROUND 8.2	10
5501 83	TWIST DRILL 338 GROUND 8.3	10
5501 84	TWIST DRILL 338 GROUND 8.4	10
5501 85	TWIST DRILL 338 GROUND 8.5	10
5501 86	TWIST DRILL 338 GROUND 8.6	10
5501 87	TWIST DRILL 338 GROUND 8.7	10
5501 88	TWIST DRILL 338 GROUND 8.8	10
5501 89	TWIST DRILL 338 GROUND 8.9	10
5501 90	TWIST DRILL 338 GROUND 9.0	10
5501 91	TWIST DRILL 338 GROUND 9.1	10
5501 92	TWIST DRILL 338 GROUND 9.2	10
5501 93	TWIST DRILL 338 GROUND 9.3	10
5501 94	TWIST DRILL 338 GROUND 9.4	10
5501 95	TWIST DRILL 338 GROUND 9.5	10
5501 96	TWIST DRILL 338 GROUND 9.6	10
5501 97	TWIST DRILL 338 GROUND 9.7	10
5501 98	TWIST DRILL 338 GROUND 9.8	10
5501 99	TWIST DRILL 338 GROUND 9.9	10
5501 100	TWIST DRILL 338 GROUND 10.0	10
5501 101	TWIST DRILL 338 GROUND 10.1	e 5
5501 102	TWIST DRILL 338 GROUND 10.2	e 5
5501 103	TWIST DRILL 338 GROUND 10.3	e 5
5501 104	TWIST DRILL 338 GROUND 10.4	e 5
5501 105	TWIST DRILL 338 GROUND 10.5	e 5
5501 106	TWIST DRILL 338 GROUND 10.6	e 5
5501 107	TWIST DRILL 338 GROUND 10.7	e 5
5501 108	TWIST DRILL 338 GROUND 10.8	e 5
5501 109	TWIST DRILL 338 GROUND 10.9	e 5
5501 110	TWIST DRILL 338 GROUND 11.0	e 5
5501 112	TWIST DRILL 338 GROUND 11.2	e 5
5501 115	TWIST DRILL 338 GROUND 11.5	e 5
5501 118	TWIST DRILL 338 GROUND 11.8	e 5
5501 120	TWIST DRILL 338 GROUND 12.0	e 5
5501 125	TWIST DRILL 338 GROUND 12.5	e 5
5501 130	TWIST DRILL 338 GROUND 13.0	e 5
5501 135	TWIST DRILL 338 GROUND 13.5	e 5
5501 140	TWIST DRILL 338 GROUND 14.0	e 5
5501 145	TWIST DRILL 338 GROUND 14.5	e 5
5501 150	TWIST DRILL 338 GROUND 15.0	e 5
5501 155	TWIST DRILL 338 GROUND 15.5	e 5
5501 160	TWIST DRILL 338 GROUND 16.0	e 5

Twist Drill Sets DIN 338 HSS, Ground Type N

Art. No. 5509 5501:

- 19-part in drill box

Art. No. 5509 5501 1:

- 25-part in drill box

Art. No. 5509 5501 5:

- 51-part in drill box

Art. No. 5509 5501 6:

- 41-part in drill box



Article No.	Article Description	QTY
5509 5501	DRILL BOX GROUND 1.0-10.0 19PC	1
5509 5501 1	DRILL BOX GROUND 1.0-13.0 25PC	1
5509 5501 5	DRILL BOX GROUND 1.0- 6.0 51PC	1
5509 5501 6	DRILL BOX GROUND 6.0-10.0 41PC	1

Art.-No. 5509 5501:

- Each 1x twist drill DIN 338 HSS, ground type N
Ø 1.0 – 10.0 mm (increments of 0.5 mm)

Art. No. 5509 5501 1:

- Each 1x twist drill DIN 338 HSS, ground type N
Ø 1.0 – 13.0 mm (increments of 0.5 mm)

Art. No. 5509 5501 5:

- Each 1x twist drill DIN 338 HSS, ground type N
Ø 1.0 – 6.0 mm (increments of 0.1 mm)

Art. No. 5509 5501 6:

- Each 1x twist drill DIN 338 HSS, ground type N
Ø 6.0 – 10.0 mm (increments of 0.1 mm)

Twist Drill DIN 338 HSS, Polished Type N, Range

- Content: 155 pieces
- Ø 1.0 - 10.5 mm
- 0.5 mm increase

Contents

Article No.	Article Description	Quantity
5501 10	TWIST DRILL 338 GROUND 1.0	10
5501 15	TWIST DRILL 338 GROUND 1.5	10
5501 20	TWIST DRILL 338 GROUND 2.0	10
5501 25	TWIST DRILL 338 GROUND 2.5	10
5501 30	TWIST DRILL 338 GROUND 3.0	10
5501 35	TWIST DRILL 338 GROUND 3.5	10
5501 40	TWIST DRILL 338 GROUND 4.0	10
5501 45	TWIST DRILL 338 GROUND 4.5	10
5501 50	TWIST DRILL 338 GROUND 5.0	10
5501 55	TWIST DRILL 338 GROUND 5.5	10
5501 60	TWIST DRILL 338 GROUND 6.0	10
5501 65	TWIST DRILL 338 GROUND 6.5	5
5501 70	TWIST DRILL 338 GROUND 7.0	5
5501 75	TWIST DRILL 338 GROUND 7.5	5
5501 80	TWIST DRILL 338 GROUND 8.0	5
5501 85	TWIST DRILL 338 GROUND 8.5	5
5501 90	TWIST DRILL 338 GROUND 9.0	5
5501 95	TWIST DRILL 338 GROUND 9.5	5
5501 100	TWIST DRILL 338 GROUND 10.0	5
5501 105	TWIST DRILL 338 GROUND 10.5	5



Article No.	Article Description	QTY
9000 5501	ASSORT.TWIST DRILLS 338 POLISH	1
9000R 5501	TRAY.TWIST DRILL338 POLISHED	1

Twist Drill Packet 80 DIN 338 HSS, Ground Type N

Article No.	Article Description	QTY
5501P 80	P(80)TWIST DRILL FU.GR.2.0-6.0	1
5501P 110	P(110)TWIST DR.FU.GR.2.0-8.0	1

Contents Art.-No. 5501P 80:

- Each 10x twist drill DIN 338 HSS right, ground
 \varnothing 2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 6.0 mm

Contents Art.-No. 5501P 110:

- Each 10x twist drill DIN 338 HSS right, ground
 \varnothing 2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.0 / 6.5 / 8.0 mm



Twist Drill DIN 338 HSS, Left-hand Cutting Type N

Article No.	Article Description	QTY
5501 1	DRILL-SET 338 GROUND 4-10 LEFT	1
5501 2 40	TW.DRILL 338 GROUND LEFT 4.0	1 z
5501 2 60	TW.DRILL 338 GROUND LEFT 6.0	1 z
5501 2 80	TW.DRILL 338 GROUND LEFT 8.0	1 z
5501 2 100	TW.DRILL 338 GROUND LEFT 10.0	1 z

Contents Art.-No. 5501 1:

- Each 1x twist drill DIN 338 HSS left, ground type N
 \varnothing 4.0 / 6.0 / 8.0 / 10.0 mm



Twist Drill DIN 338 HSS, Roll Forged Type N

- Cylindrical, short
- Right-hand cutting
- Helical point
- Point angle 118°



Applications:

- For alloyed and unalloyed steel up to approx. 800 N/mm² strength, alloyed and non-alloyed steel, steel, cast steel, grey and malleable cast iron, spheroidal cast iron, sintered metal

Article No.	Article Description	QTY
5500 05	TWIST DRILL 338 ROLL F. 0.5	10
5500 10	TWIST DRILL 338 ROLL F. 1.0	10
5500 15	TWIST DRILL 338 ROLL F. 1.5	10
5500 20	TWIST DRILL 338 ROLL F. 2.0	10
5500 22	TWIST DRILL 338 ROLL F. 2.2	10
5500 25	TWIST DRILL 338 ROLL F. 2.5	10
5500 30	TWIST DRILL 338 ROLL F. 3.0	10
5500 31	TWIST DRILL 338 ROLL F. 3.1	10
5500 32	TWIST DRILL 338 ROLL F. 3.2	10
5500 33	TWIST DRILL 338 ROLL F. 3.3	10
5500 35	TWIST DRILL 338 ROLL F. 3.5	10
5500 37	TWIST DRILL 338 ROLL F. 3.7	10
5500 40	TWIST DRILL 338 ROLL F. 4.0	10
5500 41	TWIST DRILL 338 ROLL F. 4.1	10
5500 42	TWIST DRILL 338 ROLL F. 4.2	10
5500 45	TWIST DRILL 338 ROLL F. 4.5	10
5500 47	TWIST DRILL 338 ROLL F. 4.7	10
5500 48	TWIST DRILL 338 ROLL F. 4.8	10
5500 49	TWIST DRILL 338 ROLL F. 4.9	10
5500 50	TWIST DRILL 338 ROLL F. 5.0	10
5500 51	TWIST DRILL 338 ROLL F. 5.1	10
5500 52	TWIST DRILL 338 ROLL F. 5.2	10
5500 53	TWIST DRILL 338 ROLL F. 5.3	10
5500 55	TWIST DRILL 338 ROLL F. 5.5	10
5500 56	TWIST DRILL 338 ROLL F. 5.6	10
5500 57	TWIST DRILL 338 ROLL F. 5.7	10
5500 60	TWIST DRILL 338 ROLL F. 6.0	10
5500 61	TWIST DRILL 338 ROLL F. 6.1	10
5500 62	TWIST DRILL 338 ROLL F. 6.2	10
5500 65	TWIST DRILL 338 ROLL F. 6.5	10
5500 66	TWIST DRILL 338 ROLL F. 6.6	10
5500 68	TWIST DRILL 338 ROLL F. 6.8	10
5500 70	TWIST DRILL 338 ROLL F. 7.0	10
5500 75	TWIST DRILL 338 ROLL F. 7.5	10
5500 80	TWIST DRILL 338 ROLL F. 8.0	10
5500 85	TWIST DRILL 338 ROLL F. 8.5	10
5500 90	TWIST DRILL 338 ROLL F. 9.0	10
5500 95	TWIST DRILL 338 ROLL F. 9.5	10
5500 100	TWIST DRILL 338 ROLL F. 10.0	10
5500 102	TWIST DRILL 338 ROLL F. 10.2	e 5
5500 105	TWIST DRILL 338 ROLL F. 10.5	e 5
5500 110	TWIST DRILL 338 ROLL F. 11.0	e 5
5500 115	TWIST DRILL 338 ROLL F. 11.5	e 5
5500 120	TWIST DRILL 338 ROLL F. 12.0	e 5
5500 125	TWIST DRILL 338 ROLL F. 12.5	e 5
5500 130	TWIST DRILL 338 ROLL F. 13.0	e 5
5500 135	TWIST DRILL 338 ROLL F. 13.5	e 5
5500 140	TWIST DRILL 338 ROLL F. 14.0	e 5
5500 145	TWIST DRILL 338 ROLL F. 14.5	e 5
5500 150	TWIST DRILL 338 ROLL F. 15.0	e 5
5500 155	TWIST DRILL 338 ROLL F. 15.5	e 5
5500 160	TWIST DRILL 338 ROLL F. 16.0	e 5
5500 165	TWIST DRILL 338 ROLL F. 16.5	e 5
5500 170	TWIST DRILL 338 ROLL F. 17.0	e 5
5500 175	TWIST DRILL 338 ROLL F. 17.5	e 5
5500 180	TWIST DRILL 338 ROLL F. 18.0	e 5
5500 185	TWIST DRILL 338 ROLL F. 18.5	e 5
5500 190	TWIST DRILL 338 ROLL F. 19.0	e 5
5500 195	TWIST DRILL 338 ROLL F. 19.5	e 5
5500 200	TWIST DRILL 338 ROLL F. 20.0	e 5

Technical Data		
Ø mm	Length mm	Groove length mm
0.5	22	5
1.0	34	12
1.5	40	18
2.0	49	24
2.2	53	27
2.5	57	30
3.0	61	33
3.1	65	36
3.2	65	36
3.3	65	36
3.5	70	39
3.7	70	39
4.0	75	43
4.1	75	43
4.2	75	43
4.5	80	47
4.7	86	52
4.8	86	52
4.9	86	52
5.0	86	52
5.1	86	52
5.2	86	52
5.3	86	52
5.5	93	57
5.6	93	57
5.7	93	57
6.0	93	57
6.1	101	63
6.2	101	63
6.5	101	63
6.6	101	63
6.8	109	69
7.0	109	69
7.5	109	69
8.0	117	75
8.5	117	75
9.0	125	81
9.5	125	81
10.0	133	87
10.2	133	87
10.5	133	87
11.0	142	94
11.5	142	94
12.0	151	101
12.5	151	101
13.0	151	101
13.5	160	108
14.0	160	108
14.5	169	114
15.0	169	114
15.5	178	120
16.0	178	120
16.5	184	125
17.0	184	125
17.5	191	130
18.0	191	130
18.5	198	135
19.0	198	135
19.5	205	140
20.0	205	140

Twist Drill Set DIN 338, Roll Forged Type N

Contents Art.-No. 5509 5500:

- 19-pcs drill box

Contents Art.-No. 5509 5500 1:

- 25-pcs in drill box

Article No.	Article Description	QTY
5509 5500	TWIST DR. BOX RF1.0-10.0 19PCS	1
5509 5500 1	TWIST DR. BOX RF1.0-13.0 25PCS	1

Contents Art.-No. 5509 5500:

- 19x twist drill DIN 338 HSS, roll forged type N
 Ø 1.0 – 10.0 mm (increments of 0.5 mm)

Contents Art.-No. 5509 5500 1:

- 25x twist drill DIN 338 HSS, roll forged type N
 Ø 1.0 – 13.0 mm (increments of 0.5 mm)



Twist Drills DIN338, Type N, Roll Forged Assortm.

- Ø 1.0 – 10.5 mm (increments of 0.5 mm) = 135 pieces

Contents

Article No.	Article Description	Quantity
5500 10	TWIST DRILL 338 ROLL F. 1.0	10
5500 15	TWIST DRILL 338 ROLL F. 1.5	10
5500 20	TWIST DRILL 338 ROLL F. 2.0	10
5500 25	TWIST DRILL 338 ROLL F. 2.5	10
5500 30	TWIST DRILL 338 ROLL F. 3.0	10
5500 35	TWIST DRILL 338 ROLL F. 3.5	10
5500 40	TWIST DRILL 338 ROLL F. 4.0	10
5500 45	TWIST DRILL 338 ROLL F. 4.5	10
5500 50	TWIST DRILL 338 ROLL F. 5.0	10
5500 55	TWIST DRILL 338 ROLL F. 5.5	5
5500 60	TWIST DRILL 338 ROLL F. 6.0	10
5500 65	TWIST DRILL 338 ROLL F. 6.5	5
5500 70	TWIST DRILL 338 ROLL F. 7.0	5
5500 75	TWIST DRILL 338 ROLL F. 7.5	5
5500 80	TWIST DRILL 338 ROLL F. 8.0	5
5500 85	TWIST DRILL 338 ROLL F. 8.5	2
5500 90	TWIST DRILL 338 ROLL F. 9.0	2
5500 95	TWIST DRILL 338 ROLL F. 9.5	2
5500 100	TWIST DRILL 338 ROLL F. 10.0	2
5500 105	TWIST DRILL 338 ROLL F. 10.5	2



Article No.	Article Description	QTY
9000 5500	ASS.TWIST DRILLS338 ROLL FORG.	1
9000R 5500	TRAY.TWIST DRILL338 ROLL FORG.	1

Twist Drill Set DIN 338 HSS, Type N Roll Forged

Article No.	Article Description	QTY
5500P 120	PK(120)TWIST DRILL RF 2.0-10.0	1
5500P 170	PK(170)TWIST DRILL RF 1.0-10.0	1

Contents Art.-No. 5500P 120:

- Each 10x twist drill DIN 338 HSS, type N roll forged
2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.0 / 6.5 / 8.0 / 10.0 mm

Contents Art.-No. 5500P 170:

- Each 10x twist drill DIN 338 HSS, type N roll forged
1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.0 / 6.5 / 7.0 / 7.5 / 8.0 / 9.0 / 10.0 mm



Twist Drill DIN338 HSS Type N, Roll Forged, Shank

- Reduced shank
- Right-hand cutting
- Relieved cone
- Point angle 118°
- Shank-Ø up to 13.0 mm: 8 mm
- Shank-Ø from 13.5 mm: 10 mm
- Shank-Ø from 16.5 mm: 13 mm



Article No.	Article Description	QTY
5505 105	TWIST DRILL 338 10MM-SHANK10.5	1
5505 110	TWIST DRILL 338 10MM-SHANK11.0	1
5505 115	TWIST DRILL 338 10MM-SHANK11.5	1
5505 120	TWIST DRILL 338 10MM-SHANK12.0	1
5505 125	TWIST DRILL 338 10MM-SHANK12.5	1
5505 130	TWIST DRILL 338 10MM-SHANK13.0	1
5505 135	TWIST DRILL 338 10MM-SHANK13.5	1
5505 140	TWIST DRILL 338 10MM-SHANK14.0	1
5505 145	TWIST DRILL 338 10MM-SHANK14.5	1
5505 150	TWIST DRILL 338 10MM-SHANK15.0	1
5505 155	TWIST DRILL 338 10MM-SHANK15.5	1
5505 160	TWIST DRILL 338 10MM-SHANK16.0	1
5505 165	TWIST DRILL 338 13MM-SHANK16.5	1
5505 170	TWIST DRILL 338 13MM-SHANK17.0	1
5505 175	TWIST DRILL 338 13MM-SHANK17.5	1
5505 180	TWIST DRILL 338 13MM-SHANK18.0	1
5505 185	TWIST DRILL 338 13MM-SHANK18.5	1
5505 190	TWIST DRILL 338 13MM-SHANK19.0	1
5505 195	TWIST DRILL 338 13MM-SHANK19.5	1
5505 200	TWIST DRILL 338 13MM-SHANK20.0	1

Technical Data			
Ø mm	Shank mm	Length mm	Groove length mm
10.5	8	133	87
11.0	8	142	94
11.5	8	142	94
12.0	8	151	101
12.5	8	151	101
13.0	8	151	101
13.5	10	160	108
14.0	10	160	108
14.5	10	169	114
15.0	10	169	114
15.5	10	178	120
16.0	10	178	120
16.5	13	184	125
17.0	13	184	125
17.5	13	191	130
18.0	13	191	130
19.0	13	198	135
19.5	13	205	140
20.0	13	205	140

Twist Drill ‘Bullet’ DIN 338 HSS, Ground

- Right-hand cutting
- Split point
- Point angle 118°
- No need to punch-mark
- For freehand drilling in thin-walled materials
- Center point guarantees precise drilling. Exact and non-splintering drilling with the shoulder cutting edges, with round hole edges (from Ø 4.8 mm)
- Skid resistant shank with 3 milled bearing areas prevents twisting of the drill in chuck (from Ø 5.0 mm)

Applications:

- For alloyed and unalloyed steels up to approx. 900 N/mm² strength, alloyed and non-alloyed steels, cast steel, grey cast iron, sintered iron, sheet and thin-walled profile material (pipes), copper, bronze, brass, wood and plastics



shaft polished 120 °

Article No.	Article Description	QTY
5504 10	TWIST DRILL BULLET 1.0	10
5504 15	TWIST DRILL BULLET 1.5	10
5504 20	TWIST DRILL BULLET 2.0	10
5504 25	TWIST DRILL BULLET 2.5	10
5504 30	TWIST DRILL BULLET 3.0	e 10
5504 35	TWIST DRILL BULLET 3.5	e 10
5504 40	TWIST DRILL BULLET 4.0	e 10
5504 45	TWIST DRILL BULLET 4.5	e 10
5504 50	TWIST DRILL BULLET 5.0	e 10
5504 55	TWIST DRILL BULLET 5.5	e 10
5504 60	TWIST DRILL BULLET 6.0	e 10
5504 65	TWIST DRILL BULLET 6.5	e 10
5504 70	TWIST DRILL BULLET 7.0	e 10
5504 75	TWIST DRILL BULLET 7.5	e 10
5504 80	TWIST DRILL BULLET 8.0	e 10
5504 85	TWIST DRILL BULLET 8.5	e 10
5504 90	TWIST DRILL BULLET 9.0	e 10
5504 95	TWIST DRILL BULLET 9.5	e 10
5504 100	TWIST DRILL BULLET 10.0	e 10
5504 110	TWIST DRILL BULLET 11.0	e 5
5504 120	TWIST DRILL BULLET 12.0	e 5
5504 130	TWIST DRILL BULLET 13.0	e 5

Technical Data			
Ø mm	Length mm	Groove length mm	Recomm. rpm
1.0	34	12	2,200
1.5	40	18	2,200
2.0	49	24	2,200
2.5	57	30	2,200
3.0	61	33	2,200
3.5	70	39	2,200
4.0	75	43	1,800
4.5	80	47	1,800
5.0	86	52	1,500
5.5	93	57	1,500
6.0	93	57	1,200
6.5	101	63	1,200
7.0	109	69	1,200
7.5	109	69	1,200
8.0	117	75	1,000
8.5	117	75	1,000
9.0	125	81	1,000
9.5	125	81	1,000
10.0	133	87	800
11.0	142	94	800
12.0	151	101	800
13.0	151	101	650

Twist Drill Set ‘Bullet’ DIN 338 HSS, Ground

- 19-pcs in drill box

Article No.	Article Description	QTY
5509 5504	BULLET DRILL SET 1-10 19PIECES	1

Contents:

- Each 1x twist drill Bullet DIN 338 HSS, ground Ø 1.0 - 10.0 mm (increments of 0.5 mm)



Twist Drill DIN 340 HSS-E Type W. FORCH****

- Cylindrical long
- Right-handed cutting
- Split point from Ø 1 mm
- Tip angle 130°
- 40° helix angle
- Tolerance range h8
- 5 % cobalt alloy



Your Advantage / Benefit

- Minimal effort and improved removal of drill cuttings through optimum geometry
- Increased drilling speed
- Precise drilling performance and increased dimensional accuracy
- High resistance to breakage due to optimised elasticity
- Optimum drilling depth up to 10x drill Ø

Application

- Alloyed and non-alloyed tool steels (up to 1,000 N/mm² tensile strength), stainless, acid and heat-resistant steels V2A and V4A, cast iron, aluminium, aluminium alloys, copper, brass, bronze etc.
- Suitable for use in controlled, stationary CNC-controlled and hand-guided machines

Article No.	Article Description	QTY
5510 5 10	TW.DR.LONG340 HSSE W10 1.0 5*	10
5510 5 20	TW.DR.LONG340 HSSE W10 2.0 5*	10
5510 5 25	TW.DR.LONG340 HSSE W10 2,5 5*	10
5510 5 30	TW.DR.LONG340 HSSE W10 3.0 5*	10
5510 5 32	TW.DR.LONG340 HSSE W10 3.2 5*	10
5510 5 35	TW.DR.LONG340 HSSE W10 3.5 5*	10
5510 5 38	TW.DR.LONG340 HSSE W10 3.8 5*	10
5510 5 40	TW.DR.LONG340 HSSE W10 4.0 5*	10
5510 5 42	TW.DR.LONG340 HSSE W10 4.2 5*	10
5510 5 45	TW.DR.LONG340 HSSE W10 4.5 5*	10
5510 5 50	TW.DR.LONG340 HSSE W10 5.0 5*	e 10
5510 5 52	TW.DR.LONG340 HSSE W10 5.2 5*	e 10
5510 5 55	TW.DR.LONG340 HSSE W10 5.5 5*	e 10
5510 5 60	TW.DR.LONG340 HSSE W10 6.0 5*	e 10
5510 5 62	TW.DR.LONG340 HSSE W10 6.2 5*	e 10
5510 5 65	TW.DR.LONG340 HSSE W10 6.5 5*	e 10
5510 5 68	TW.DR.LONG340 HSSE W10 6.8 5*	e 5
5510 5 70	TW.DR.LONG340 HSSE W10 7.0 5*	e 5
5510 5 75	TW.DR.LONG340 HSSE W10 7.5 5*	e 5
5510 5 80	TW.DR.LONG340 HSSE W10 8.0 5*	e 5
5510 5 85	TW.DR.LONG340 HSSE W10 8.5 5*	e 5
5510 5 90	TW.DR.LONG340 HSSE W10 9.0 5*	e 5
5510 5 95	TW.DR.LONG340 HSSE W10 9.5 5*	e 5
5510 5 100	TW.DR.LONG340 HSSE W10 10.0 5*	e 5
5510 5 105	TW.DR.LONG340 HSSE W10 10.5 5*	e 5
5510 5 110	TW.DR.LONG340 HSSE W10 11.0 5*	1
5510 5 115	TW.DR.LONG340 HSSE W10 11.5 5*	1
5510 5 120	TW.DR.LONG340 HSSE W10 12.0 5*	1
5510 5 125	TW.DR.LONG340 HSSE W10 12.5 5*	1
5510 5 130	TW.DR.LONG340 HSSE W10 13.0 5*	1

Technical Data		
Ø mm	Length mm	Tension length mm
1.0	56	33
2.0	85	56
2.5	95	62
3.0	100	66
3.2	106	69
3.5	112	73
3.8	119	78
4.0	119	78
4.2	119	78
4.5	126	82
5.0	132	87
5.2	132	87
5.5	139	91
6.0	139	91
6.2	149	97
6.5	149	97
6.8	156	102
7.0	156	102
7.5	156	102
8.0	165	109
8.5	165	109
9.0	175	115
9.5	175	115
10.0	184	121
10.5	184	121
11.0	195	128
11.5	195	128
12.0	205	134
12.5	205	134
13.0	205	134

Twist Drill Set DIN 340 HSS-E Type W. **FÖRCH*******

- 17 pieces in plastic case Art.-No. 4415 14 47 1 with VAROsoft system insert Art.-No. 9026 638

Contents

Article No.	Article Description	Quantity
4415 14 47 1	EMPTY CASE SIZE A	1
5510 5 10	TW.DR.LONG340 HSSE W10 1.0 5*	1
5510 5 20	TW.DR.LONG340 HSSE W10 2.0 5*	1
5510 5 30	TW.DR.LONG340 HSSE W10 3.0 5*	1
5510 5 35	TW.DR.LONG340 HSSE W10 3.5 5*	1
5510 5 40	TW.DR.LONG340 HSSE W10 4.0 5*	1
5510 5 45	TW.DR.LONG340 HSSE W10 4.5 5*	1
5510 5 50	TW.DR.LONG340 HSSE W10 5.0 5*	1
5510 5 55	TW.DR.LONG340 HSSE W10 5.5 5*	1
5510 5 60	TW.DR.LONG340 HSSE W10 6.0 5*	1
5510 5 65	TW.DR.LONG340 HSSE W10 6.5 5*	1
5510 5 70	TW.DR.LONG340 HSSE W10 7.0 5*	1
5510 5 75	TW.DR.LONG340 HSSE W10 7.5 5*	1
5510 5 80	TW.DR.LONG340 HSSE W10 8.0 5*	1
5510 5 85	TW.DR.LONG340 HSSE W10 8.5 5*	1
5510 5 90	TW.DR.LONG340 HSSE W10 9.0 5*	1
5510 5 95	TW.DR.LONG340 HSSE W10 9.5 5*	1
5510 5 100	TW.DR.LONG340 HSSE W10 10.0 5*	1



Article No.	Article Description	QTY
5509 5 5510	TW.DR.SET 340 1-10MM 17PCS 5*	1



Related Products

- **Impact-Hammer Drill**
Art.-No. 5325 570



- **Drilling and Cutting Paste**
Art.-No. 6580 5820



- **„Epsilon“ Safety Glasses**
Art.-No. 5400 905 1



Twist Drill DIN 340 HSS, Ground Type N

- Cylindrical, long
- Right-hand cutting
- Split point
- Point angle 135°
- Ø-tolerance h8
- Highly efficient standard drill, for deep hole drillings and drill bushings



Applications:

- For alloyed and unalloyed steel and cast steel up to approx. 900 N/mm² strength, grey cast iron, malleable cast iron, sintered iron, spheroidal cast iron, bronze, brass, alloyed aluminium, short-chipping
- Ø 4.0 / 4.2 / 5.0 / 5.3 / 5.5 / 5.8 ideally suitable for drilling at facades, on facades for mounting screws
- Ø 6.2 for drilling window frames in connection with frame screws

Article No.	Article Description	QTY
5510 10	TWIST DRILL LONG 340 1.0	10
5510 20	TWIST DRILL LONG 340 2.0	10
5510 25	TWIST DRILL LONG 340 2.5	10
5510 30	TWIST DRILL LONG 340 3.0	10
5510 31	TWIST DRILL LONG 340 3.1	10
5510 32	TWIST DRILL LONG 340 3.2	10
5510 35	TWIST DRILL LONG 340 3.5	10
5510 38	TWIST DRILL LONG 340 3.8	10
5510 40	TWIST DRILL LONG 340 4.0	10
5510 41	TWIST DRILL LONG 340 4.1	10
5510 42	TWIST DRILL LONG 340 4.2	10
5510 45	TWIST DRILL LONG 340 4.5	10
5510 48	TWIST DRILL LONG 340 4.8	10
5510 50	TWIST DRILL LONG 340 5.0	10
5510 51	TWIST DRILL LONG 340 5.1	10
5510 52	TWIST DRILL LONG 340 5.2	10
5510 53	TWIST DRILL LONG 340 5.3	10
5510 55	TWIST DRILL LONG 340 5.5	10
5510 57	TWIST DRILL LONG 340 5.7	10
5510 58	TWIST DRILL LONG 340 5.8	10
5510 60	TWIST DRILL LONG 340 6.0	10
5510 62	TWIST DRILL LONG 340 6.2	10
5510 65	TWIST DRILL LONG 340 6.5	10
5510 68	TWIST DRILL LONG 340 6.8	10
5510 70	TWIST DRILL LONG 340 7.0	10
5510 75	TWIST DRILL LONG 340 7.5	10
5510 80	TWIST DRILL LONG 340 8.0	e 5
5510 85	TWIST DRILL LONG 340 8.5	e 5
5510 90	TWIST DRILL LONG 340 9.0	e 5
5510 95	TWIST DRILL LONG 340 9.5	e 5
5510 100	TWIST DRILL LONG 340 10.0	e 5
5510 105	TWIST DRILL LONG 340 10.5	e 5
5510 110	TWIST DRILL LONG 340 11.0	e 5
5510 115	TWIST DRILL LONG 340 11.5	e 5
5510 120	TWIST DRILL LONG 340 12.0	e 5
5510 125	TWIST DRILL LONG 340 12.5	e 5
5510 130	TWIST DRILL LONG 340 13.0	e 5

Technical Data		
Ø mm	Length mm	Groove length mm
1.0	56	33
2.0	85	56
2.5	95	62
3.0	100	66
3.1	106	69
3.2	106	69
3.5	112	73
3.8	119	78
4.0	119	78
4.1	119	78
4.2	119	78
4.5	126	82
4.8	132	87
5.0	132	87
5.1	132	87
5.2	132	87
5.3	132	87
5.5	139	91
5.7	139	91
5.8	139	91
6.0	139	91
6.2	139	91
6.5	148	97
6.8	156	102
7.0	156	102
7.5	156	102
8.0	165	109
8.5	165	109
9.0	175	115
9.5	175	115
10.0	184	121
10.5	184	121
11.0	195	128
11.5	195	128
12.0	205	134
12.5	205	134
13.0	205	134

Twist Drill DIN 1869 HSS, Ground, Type N, Series 2



- Cylindrical, extra long
- Ground
- Right-hand cutting
- Crosswise grinding
- Point angle 130°
- Highly efficient standard drill in long version for deep hole drillings

Applications:

- For alloyed and unalloyed steel and cast steel up to approx. 900 N/mm² strength, grey cast iron, malleable cast iron, sintered iron, spheroidal cast iron, bronze, brass, aluminium, short-chipping

Article No.	Article Description	QTY
5508 30	TW.DR.EXTRA LONG 1869GS RS 3.0	e 10
5508 32	TW.DR.EXTRA LONG 1869GS RS 3.2	e 10
5508 35	TW.DR.EXTRA LONG 1869GS RS 3.5	e 10
5508 40	TW.DR.EXTRA LONG 1869GS RS 4.0	e 10
5508 42	TW.DR.EXTRA LONG 1869GS RS 4.2	e 10
5508 45	TW.DR.EXTRA LONG 1869GS RS 4.5	e 10
5508 50	TW.DR.EXTRA LONG 1869GS R2 5.0	e 10
5508 52	TW.DR.EXTRA LONG 1869GS R2 5.2	e 5
5508 55	TW.DR.EXTRA LONG 1869GS R2 5.5	e 10
5508 60	TW.DR.EXTRA LONG 1869GS R2 6.0	e 10
5508 65	TW.DR.EXTRA LONG 1869GS R2 6.5	e 10
5508 70	TW.DR.EXTRA LONG 1869GS R2 7.0	e 5
5508 80	TW.DR.EXTRA LONG 1869GS R2 8.0	e 5
5508 90	TW.DR.EXTRA LONG 1869GS R2 9.0	e 5
5508 100	TW.DR.EXTRA LONG 1869GS R2 10.0	e 5

Technical Data		
Ø mm	Length mm	Groove length mm
3.0	190	130
3.2	200	135
3.5	210	145
4.0	220	150
4.2	220	150
4.5	235	160
5.0	245	170
5.2	245	170
5.5	260	180
6.0	260	180
6.5	275	190
7.0	290	200
8.0	305	210
9.0	320	220
10.0	340	235

Drill for Hollow Profiles HSS, Ground Type N



- Cylindrical, long
- Right-hand cutting
- Split point
- Point angle 118°
- Ø-tolerance h8
- Break-resistant due to short groove length (30 mm)

Applications:

- Ideal for drilling profiled sheet metal-constructions in connection with facade screws and window installation

Article No.	Article Description	QTY
5519 30 135	HOLL.PROF.DRILL GROUND 3.0X135	10
5519 31 135	HOLL.PROF.DRILL GROUND 3.1X135	10
5519 33 135	HOLL.PROF.DRILL GROUND 3.3X135	10
5519 35 135	HOLL.PROF.DRILL GROUND 3.5X135	10
5519 40 135	HOLL.PROF.DRILL GROUND 4.0X135	10
5519 41 135	HOLL.PROF.DRILL GROUND 4.1X135	10
5519 42 135	HOLL.PROF.DRILL GROUND 4.2X135	10
5519 45 135	HOLL.PROF.DRILL GROUND 4.5X135	10
5519 50 135	HOLL.PROF.DRILL GROUND 5.0X135	10
5519 50 210	HOLL.PROF.DRILL GROUND 5.0X210	10
5519 51 210	HOLL.PROF.DRILL GROUND 5.1X210	10
5519 53 210	HOLL.PROF.DRILL GROUND 5.3X210	10
5519 55 210	HOLL.PROF.DRILL GROUND 5.5X210	10
5519 57 210	HOLL.PROF.DRILL GROUND 5.7X210	10
5519 58 210	HOLL.PROF.DRILL GROUND 5.8X210	10

Technical Data		
Ø mm	Length mm	Groove length mm
3.0	135	30
3.1	135	30
3.3	135	30
3.5	135	30
4.0	135	30
4.1	135	30
4.2	135	30
4.5	135	30
5.0	135	30
5.0	210	30
5.1	210	30
5.3	210	30
5.5	210	30
5.7	210	30
5.8	210	30

Twist Drill Morse Taper Shank DIN 345 HSS, Type N

- Right-hand cutting
- Roll forged
- Helical point
- Point angle 118°
- Highly efficient standard drill, for deep hole drillings



Applications:

- For steel and cast steel up to approx. 900 N/mm² strength, grey cast iron, malleable cast iron, sintered iron, spheroidal cast iron, bronze, brass, alloyed aluminium, short-chipping

Article No.	Article Description	QTY
5511 100	TW. DRILL T. SHANK 345MT1 10.0	1
5511 102	TW. DRILL T. SHANK 345MT1 10.2	1
5511 105	TW. DRILL T. SHANK 345MT1 10.5	1
5511 110	TW. DRILL T. SHANK 345MT1 11.0	1
5511 115	TW. DRILL T. SHANK 345MT1 11.5	1
5511 120	TW. DRILL T. SHANK 345MT1 12.0	1
5511 125	TW. DRILL T. SHANK 345MT1 12.5	1
5511 130	TW. DRILL T. SHANK 345MT1 13.0	1
5511 135	TW. DRILL T. SHANK 345MT1 13.5	1
5511 140	TW. DRILL T. SHANK 345MT1 14.0	1
5511 145	TW. DRILL T. SHANK 345MT2 14.5	1
5511 150	TW. DRILL T. SHANK345 MT2 15.0	1
5511 155	TW. DRILL T. SHANK345 MT2 15.5	1
5511 160	TW. DRILL T. SHANK345 MT2 16.0	1
5511 165	TW. DRILL T. SHANK345 MT2 16.5	1
5511 170	TW. DRILL T. SHANK345 MT2 17.0	1
5511 175	TW. DRILL T. SHANK345 MT2 17.5	1
5511 180	TW. DRILL T. SHANK345 MT2 18.0	1
5511 185	TW. DRILL T. SHANK345 MT2 18.5	1
5511 190	TW. DRILL T. SHANK345 MT2 19.0	1
5511 195	TW. DRILL T. SHANK345 MT2 19.5	1
5511 200	TW. DRILL T. SHANK345 MT2 20.0	1
5511 205	TW. DRILL T. SHANK345 MT2 20.5	1
5511 210	TW. DRILL T. SHANK345 MT2 21.0	1
5511 215	TW. DRILL T. SHANK345 MT2 21.5	1
5511 220	TW. DRILL T. SHANK345 MT2 22.0	1
5511 225	TW. DRILL T. SHANK345 MT2 22.5	1
5511 230	TW. DRILL T. SHANK345 MT2 23.0	1
5511 235	TW. DRILL T. SHANK345 MT3 23.5	1
5511 240	TW. DRILL T. SHANK345 MT3 24.0	1
5511 245	TW. DRILL T. SHANK345 MT3 24.5	1
5511 250	TW. DRILL T. SHANK345 MT3 25.0	1
5511 255	TW. DRILL T. SHANK345 MT3 25.5	1
5511 260	TW. DRILL T. SHANK345 MT3 26.0	1
5511 265	TW. DRILL T. SHANK345 MT3 26.5	1
5511 270	TW. DRILL T. SHANK345 MT3 27.0	1
5511 275	TW. DRILL T. SHANK345 MT3 27.5	1
5511 280	TW. DRILL T. SHANK345 MT3 28.0	1
5511 285	TW. DRILL T. SHANK345 MT3 28.5	1
5511 290	TW. DRILL T. SHANK345 MT3 29.0	1
5511 295	TW. DRILL T. SHANK345 MT3 29.5	1
5511 300	TW. DRILL T. SHANK345 MT3 30.0	1
5511 305	TW. DRILL T. SHANK345 MT3 30.5	1
5511 310	TW. DRILL T. SHANK345 MT3 31.0	1
5511 315	TW. DRILL T. SHANK345 MT3 31.5	1
5511 320	TW. DRILL T. SHANK345 MT4 32.0	1
5511 325	TW. DRILL T. SHANK345 MT4 32.5	1
5511 330	TW. DRILL T. SHANK345 MT4 33.0	1
5511 335	TW. DRILL T. SHANK345 MT4 33.5	1
5511 340	TW. DRILL T. SHANK345 MT4 34.0	1
5511 345	TW. DRILL T. SHANK345 MT4 34.5	1
5511 350	TW. DRILL T. SHANK345 MT4 35.0	1
5511 355	TW. DRILL T. SHANK345 MT4 35.5	1
5511 360	TW. DRILL T. SHANK345 MT4 36.0	1
5511 365	TW. DRILL T. SHANK345 MT4 36.5	1
5511 370	TW. DRILL T. SHANK345 MT4 37.0	1
5511 375	TW. DRILL T. SHANK345 MT4 37.5	1
5511 380	TW. DRILL T. SHANK345 MT4 38.0	1
5511 385	TW. DRILL T. SHANK345 MT4 38.5	1
5511 390	TW. DRILL T. SHANK345 MT4 39.0	1
5511 395	TW. DRILL T. SHANK345 MT4 39.5	1
5511 400	TW. DRILL T. SHANK345 MT4 40.0	1

Technical Data		
Ø mm	Length mm	Groove length mm
10.0	168	87
10.2	168	87
10.5	168	87
11.0	175	94
11.5	175	94
12.0	182	101
12.5	182	101
13.0	182	101
13.5	189	108
14.0	189	108
14.5	212	114
15.0	212	114
15.5	218	120
16.0	218	120
16.5	223	125
17.0	223	125
17.5	228	130
18.0	228	130
18.5	233	135
19.0	233	135
19.5	238	140
20.0	238	140
20.5	248	150
21.0	248	150
21.5	248	150
22.0	248	150
22.5	253	155
23.0	253	155
23.5	276	155
24.0	281	160
24.5	281	160
25.0	281	160
25.5	286	165
26.0	286	165
26.5	286	165
27.0	291	170
27.5	291	170
28.0	291	170
28.5	296	175
29.0	296	175
29.5	296	175
30.0	296	175
30.5	301	180
31.0	301	180
31.5	306	185
32.0	334	185
32.5	334	185
33.0	334	185
33.5	334	185
34.0	339	190
34.5	339	190
35.0	339	190
35.5	339	190
36.0	344	195
36.5	344	195
37.0	344	195
37.5	344	195
38.0	349	200
38.5	349	200
39.0	349	200
39.5	349	200
40.0	349	200

Twist Drill Short DIN 1897 HSS, Type N Roll Forged

- Cylindric extra short
- Right-hand cutting
- Split point
- Point angle 118°
- Powerful drill, suitable for hand drilling machines
- Suitable for thin material, e.g. sheet metal, flat and profile iron



Article No.	Article Description	QTY
5507 25	TWIST DRILL SHORT 1897 2.5	e 10
5507 30	TWIST DRILL SHORT 1897 3.0	10
5507 31	TWIST DRILL SHORT 1897 3.1	10
5507 32	TWIST DRILL SHORT 1897 3.2	10
5507 33	TWIST DRILL SHORT 1897 3.3	10
5507 35	TWIST DRILL SHORT 1897 3.5	10
5507 40	TWIST DRILL SHORT 1897 4.0	10
5507 41	TWIST DRILL SHORT 1897 4.1	10
5507 42	TWIST DRILL SHORT 1897 4.2	10
5507 45	TWIST DRILL SHORT 1897 4.5	10
5507 50	TWIST DRILL SHORT 1897 5.0	10
5507 51	TWIST DRILL SHORT 1897 5.1	10
5507 52	TWIST DRILL SHORT 1897 5.2	10
5507 55	TWIST DRILL SHORT 1897 5.5	10
5507 60	TWIST DRILL SHORT 1897 6.0	10
5507 65	TWIST DRILL SHORT 1897 6.5	10
5507 70	TWIST DRILL SHORT 1897 7.0	10
5507 75	TWIST DRILL SHORT 1897 7.5	10
5507 80	TWIST DRILL SHORT 1897 8.0	10
5507 92	TWIST DRILL SHORT 1897 DA 9.2	1 ü
5507 112	TWIST DRILL SHORT 1897 DA 11.2	1
5507 132	TWIST DRILL SHORT 1897 DA 13.2	1
5507 152	TWIST DRILL SHORT 1897 DA 15.2	1

Technical Data		
Ø mm	Length mm	Groove length mm
2.5	43	14
3.0	46	16
3.1	49	18
3.2	49	18
3.3	49	18
3.5	52	20
4.0	55	22
4.1	55	22
4.2	55	22
4.5	58	24
5.0	62	26
5.1	62	26
5.2	62	26
5.5	66	28
6.0	66	28
6.5	70	31
7.0	74	34
7.5	74	34
8.0	79	37
9.2	84	40
11.2	95	47
13.2	102	51
15.2	115	58

Centre Drill DIN 333 HSS, Ground

- Right-hand cutting
- Centre angle 60°
- Point angle 120°
- Ø-tolerance h9
- Ideally suitable for the production of centre drills according to DIN 332 Form A



Article No.	Article Description	QTY
5513 10	CENTRE DRILL HSS 333 A 1.0	e 10
5513 16	CENTRE DRILL HSS 333 A 1.6	e 10
5513 20	CENTRE DRILL HSS 333 A 2.0	e 10
5513 25	CENTRE DRILL HSS 333 A 2.5	e 10
5513 315	CENTRE DRILL HSS 333 A 3.15	e 10
5513 40	CENTRE DRILL HSS 333 A 4.0	e 10
5513 50	CENTRE DRILL HSS 333 A 5.0	e 10
5513 63	CENTRE DRILL HSS 333 A 6.3	e 10
5513 80	CENTRE DRILL HSS 333 A 8.0	1

Technical Data		
Ø mm	Shank-Ø mm	Total length mm
1.0	3.15	31.5
1.6	4.0	35.5
2.0	5.0	40.0
2.5	6.3	45.0
3.15	8.0	50.0
4.0	10.0	56.0
5.0	12.5	63.0
6.3	16.0	71.0
8.0	20.0	80.0

Double-end Drill 118° HSS, Ground

- Double-side drilling
- Extra short, for drillings in thin materials
- Point angle 118°
- Right-hand cutting
- Split point (from Ø 3 mm)

Applications:

- For hard, very tough materials e.g. body sheets in vehicle construction



Article No.	Article Description	QTY
5514 25	DOUBLE-END DRILL 118 2.5	10
5514 30	DOUBLE-END DRILL 118 3.0	10
5514 31	DOUBLE-END DRILL 118 3.1	10
5514 32	DOUBLE-END DRILL 118 3.2	10
5514 33	DOUBLE-END DRILL 118 3.3	10
5514 35	DOUBLE-END DRILL 118 3.5	10
5514 40	DOUBLE-END DRILL 118 4.0	10
5514 41	DOUBLE-END DRILL 118 4.1	10
5514 42	DOUBLE-END DRILL 118 4.2	10
5514 45	DOUBLE-END DRILL 118 4.5	10
5514 49	DOUBLE-END DRILL 118 4.9	10
5514 50	DOUBLE-END DRILL 118 5.0	10
5514 51	DOUBLE-END DRILL 118 5.1	10
5514 52	DOUBLE-END DRILL 118 5.2	10

Technical Data		
Ø mm	Length mm	Groove length mm
2.5	46	11.0
3.0	46	11.0
3.1	49	11.0
3.2	49	11.0
3.3	49	11.0
3.5	52	14.0
4.0	55	14.0
4.1	55	14.0
4.2	55	14.0
4.5	58	17.0
4.9	62	17.0
5.0	62	17.0
5.1	62	17.0
5.2	62	17.0

Double-end Drill 130° HSS, Ground

- Double-side drilling
- Extra short, for drilling in thin materials
- Point angle 130°
- Right-hand cutting
- Split point
- In plastic sliding-box

Applications:

- For structural steel, medium hard non-ferrous metals such as zinc, aluminium and copper sheets in roof and facade construction



Article No.	Article Description	QTY
5514 1 32	PK(10)DOUBLE-END DRILL 130 3.2	1
5514 1 33	PK(10)DOUBLE-END DRILL 130 3.3	1
5514 1 35	PK(10)DOUBLE-END DRILL 130 3.5	1
5514 1 41	PK(10)DOUBLE-END DRILL 130 4.1	1
5514 1 42	PK(10)DOUBLE-END DRILL 130 4.2	1
5514 1 51	PK(10)DOUBLE-END DRILL 130 5.1	1
5514 1 52	PK(10)DOUBLE-END DRILL 130 5.2	1

Technical Data		
Ø mm	Length mm	Groove length mm
3.2	49	11.0
3.3	49	11.0
3.5	52	14.0
4.1	55	14.0
4.2	55	14.0
5.1	62	17.0
5.2	62	17.0

Twist Drill Bit HSS, Ground

- Split point
- Right-hand cutting
- Point angle 118°
- Highly-tempered shank according to DIN 3126 – E6,3 – 1/4"

Applications:

- Recommended for alloyed and unalloyed steels as well as soft non-ferrous metals



Article No.	Article Description	QTY
5517 3	1/4" TWIST DRILL BIT 3MM	1
5517 4	1/4" TWIST DRILL BIT 4MM	1
5517 5	1/4" TWIST DRILL BIT 5MM	1
5517 6	1/4" TWIST DRILL BIT 6MM	1
5517 8	1/4" TWIST DRILL BIT 8MM	1
5517 10	1/4" TWIST DRILL BIT 10MM	1
5509 5517	5-PCS.1/4" METAL DR.SET 3-8MM	1

Technical Data		
Ø mm	Length mm	Groove length mm
3.0	60	20
4.0	60	20
5.0	65	25
6.0	65	25
8.0	70	30
10.0	70	30

(Mount / Ø mm)

Milling Drill HSS Universal

- Cylinder shaft
- For drillings and subsequent milling of thin-walled material e.g. long holes

Article No.	Article Description	QTY
5520 20	UNIVERSAL MILLING DRILL 6X90MM	1



Spot Weld Drill HSS-E FORCH*****

- For precise, burr-free drilling out of spot welds and for drilling thin-walled workpieces without centre punching
- Special ground surface with self-cutting centring tip and straight primary cutting edge for increased drilling speed
- Won't slip off the spot weld
- 5% cobalt alloy
- Right-hand cutting
- Made in Germany

Applications:

- For drilling steel sheets with up to 900 N/mm² tensile strength, brass sheets, aluminium sheets, zinc sheets, copper sheets, and plastic plates



Article No.	Article Description	QTY
5515 5 60	SPOT WELD DRILL HSSE 6.0 5*	e 10
5515 5 80	SPOT WELD DRILL HSSE 8.0 5*	e 10
5515 5 100	SPOT WELD DRILL HSSE 10.0 5*	e 10

Technical Data	
Ø mm	Overall length mm
6.0	66.0
8.0	80.0
10.0	88.0

(Ø mm)

Spot Weld Drill HSS-E

- Alloyed with cobalt (5%)
- Suitable for drilling of welding points on sheet steel

Article No.	Article Description	QTY
5515 60	SPOT WELD DRILL HSS-E 6.0	e 10
5515 80	SPOT WELD DRILL HSS-E 8.0	e 10
5515 100	SPOT WELD DRILL HSS-E 10.0	e 10



(Ø mm)

Spot Weld Drill HSS-E TIN

- Alloyed with 5 % cobalt and titanium nitride coated
- Suitable for drilling of welding points on sheet steel

Article No.	Article Description	QTY
5515 60 1	SPOT WELD DR.SOL.CARB.HSSE 6.0	e 10
5515 80 1	SPOT WELD DR.SOL.CARB.HSSE 8.0	e 10



(Ø mm)

Spot Weld Drill HSS-E TIAN

- Alloyed with 5 % cobalt titanium aluminium nitride coating
- Suitable for drilling of welding points on sheet steel

Article No.	Article Description	QTY
5515 60 3	SPOT WELD DR.CARB.HSSE-TIAN6.0	e 10
5515 80 3	SPOT WELD DR.CARB.HSSE-TIAN8.0	e 10



(Ø mm)

Spot Weld Drill - Solid Carbide

- Made out of solid carbide, nano structured special coating with high strength and toughness at the same time

Article No.	Article Description	QTY
5515 60 2	SPOT WELD DRILL-SOL.CARBIDE6.0	1
5515 80 2	SPOT WELD DRILL SOL.CARBIDE8.0	1



(Ø mm)

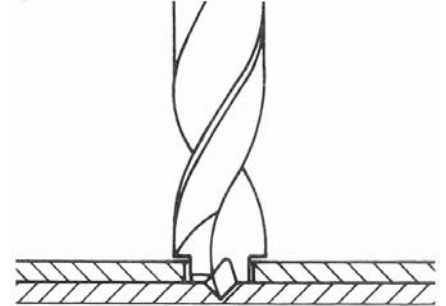
Spot Weld Drill „SAFETY“ HSS-E

- Alloyed with cobalt (5%)
- When the shoulder contacts the body sheet, it shows the removal of the weld spot and thus avoids an unintentional piercing



Technical Data		
Art.-No.	5515 1075/ 5515 1075 4	5515 8055/ 5515 8055 4
Drill shaft Ø:	10.0 mm	8.0 mm
Drill Ø:	7.5 mm	5.5 mm
Height of shoulder:	1.1 mm	1.1 mm
Speed:	600 – 670 rpm	600 – 670 rpm

Article No.	Article Description	QTY
5515 1075	SPOT WELD DRILL HSS-E10/7.5MM	1
5515 1075 4	SPOT WELD DRILL 10/7.5 PK(4)	1
5515 8055	SPOT WELD DRILL HSS-E 8.0/5.5	1
5515 8055 4	SPOT WELD DRILL 8/5.5 PK(4)	1



Welding Spot Cutter HSS

- For drilling open welding spots in steel sheets $\leq 900 \text{ N/mm}^2$ tensile strength
- Exchangeable milling arbor that cuts on both sides
- Adjustable milling depth
- Hexagonal shaft, complete with HSS milling arbor $\text{Ø } 9.6 \text{ mm}$



Article No.	Article Description	QTY
5520 1	SPOT WELD CUTTER HSS	e 5
5520 10	SPOT WELD CUTTER-REPL.CROWN	e 5
5520 11	SPOT WELD CUTTER-CENTERING PIN	1

Weld Spot Drill TIAN

- Hard metal cutter with CVD-wear protection coating Titan-Aluminium-Nitrid
- Suitable for weld spot drill FAST DRILL (Art.-No. 5352 3)



Article No.	Article Description	QTY
5352 3 1	WELD SPOT DRILL TIAN 8/44MM	e 10

Welding Spot Drill Tungsten Carbide 8 and 10 mm

- In combination with Welding Spot Drill FAST DRILL ideal for high-strength car body sheets:
 - Material hardness non-welded: 560 HV / 52HRC / 2,200 MPa
 - Material spotted: 760 HV / 62HRC / 2,600 MPa
- Service life 80 – 120 drillings in high-strength sheets
- Afterwards up to 1,000 drillings into standard sheets possible (in combination with FAST DRILL)
- Hardness 3,100 HV (according to Vickers test procedure)
- Heat resistant up to 1,100 °C
- High sliding wear resistance
- Suitable for welding spot drill FAST DRILL (Art.-No. 5352 3)



5352 3 2



5352 3 3

Technical Data

Type:	Double cutter
Material cutter:	Wolfram Karbid (hardness 1,400 HV)
Material carrier:	Steel
Connection:	soldered
PVD coating:	AlCrN-based (hardness 3,100 HV)
Temperature protection of coating:	1,100 °C
Friction coefficient:	0,24 µG (dry against steel)
Speed:	700–800 / max. 1,000 min ⁻¹

Article No.	Article Description	QTY
5352 3 2	WELD SPOT DR. DURADRILL 8/44MM	e 10
5352 3 3	WELD SPOT DR. DURADRILL 10/44MM	e 10

Welding Spot Cutter DL

- Material: HSCO
- Shank-Ø: 8 mm
- Suitable for welding spot drill (Art.-No. 5352 1)



Article No.	Article Description	QTY
5352 90 65	WELDING-SPOT CUTTER 6.5/45MM	1 z
5352 90 65 1	WELDING-SPOT CUT.6.5/45MM TIN	1 z
5352 90 80	WELDING-SPOT CUTTER 8/45MM	1 z
5352 90 80 1	WELDING-SPOT CUTTER 8/45MM TIN	1 z

(Cutter-Ø mm / length, mm / version)

Solid Hard Metal Weld Point Cutter with 3 Cutters

- Material: solid metal (VHM)
 - 3 cutting drills for high-strength sheets
- Art.-No. 5352 8 46**
- E.g. for welding spot device (Art.-No. 5352 1)
- Art.-No. 5352 8 44**
- E.g. for 'Vario Drill' of Wieländer and Schill



5352 8 46



5352 8 44

Article No.	Article Description	QTY
5352 8 46	WELDING SPOT CUTTER 8.0/46MM	1
5352 8 44	WELDING SPOT CUTTER 8.0/44MM	1

(Cutter-Ø mm/length mm/version)

Angle Core Drill Press RS 5e

- Magnetic stand allows horizontal, vertical and overhead operation
- Electronic safety switch prevents starting motor unintentionally when magnet is not activated
- Ideal for steel, industry, machine, plant, boat, bridge, crane construction and assembly in metal workshops
- For optimal use in extremely confined space, e.g. iron girders, tight steel constructions or truck frames

Drilling range:

- Core drill: up to Ø 35 mm
- Cutting depth: 30 mm
- Power supply: 230 Volt
- Complies with: VDE, CEE

Technical Data

Magnetic attraction force*:	10,000 N
Power input:	1,200 Watt
Speed:	140 – 350 rpm
Height:	182 mm
Stroke:	38 mm
Contact area:	160 x 80 mm
Weight:	10 kg
Chuck:	Weldon shank 19 mm (3/4")

*actual magnetic adhesive force complies with DIN EN 10002 on a steel-plate with a thickness of 30 mm (St 37)

Article No.	Article Description	QTY
5323 1	ANGLE CORE DRILLPRESS RS 5E	1
5323 2	ANGLE COR.DR.PRESS.RS5E+6DRILL	1



Magnetic Box Column Drill RS 10

- Magnetic box column enable horizontal, vertical, and overhead operation
- Universally applicable and easy to transport through compact, light-weight design and ease of use
- Electronic safety switch prevents unintended starting of the motor as long as the magnet is not activate
- Safet shutoff in case of externally caused magnet failure
- Ideally suited for steel, industry, machine, plant, boat, bridge, and crane construction and assembly in metal workshops

Drilling range:

- Twist drill (DIN 338): max. Ø 10 mm
- Twist drill (DIN 1897): max. Ø 13 mm
- Core drill: max. Ø 35 mm
- Core drill cutting depth: 30 mm
- Power supply: 230 Volt
- Corresponds to VDE, CEE

Technical Data

Magnetic attraction force*:	10,000 N
Power input:	1,120 Watt
Speed:	450 rpm
Height:	413 – 548 mm
Stroke:	135 mm
Contact area:	160 x 80 mm
Weight:	12 kg
Fixture:	Weldon shank 19 mm (3/4")
Gearing output:	M14

*actual magnetic adhesive force complies with DIN EN 10002 on a steel-plate with a thickness of 30 mm (St 37)

Article No.	Article Description	QTY
5323 108 001	CORE DRILLING MACHINE RS10	1



Magnetic Base Drill RS 125e

- Allows horizontal, vertical and overhead applications
- Universally usable and easy to transport thanks to compact, light-weight design and easy handling
- Can easily be retooled with core drill bits and twist drill bits, also allowing blind holes to be drilled
- Electronic safety circuit prevents unintentional starting of the motor if the magnet has not yet been turned on
- With safety shutdown in the event of possible failure of the magnet due to external influences
- With clockwise / anti-clockwise rotation and electronic speed control
- Ideal for use in steel construction, industrial construction, mechanical engineering, plant construction, ship building, bridge construction, crane construction and assembly work in metalworking shops

Drilling ranges:

- Spiral drill (DIN 338): max. Ø 16 mm
- Spiral drill (DIN 1897): max. Ø 16 mm
- Spiral drill (DIN 345): max. Ø 23 mm
- Core drill: up to Ø 12 – 60 mm
- Core drill cutting depth: 30 / 50 / 110 mm
- Thread cutting: up to M30

Additional adjustment:

- Pivot range: ± 5°
- Displacement: ± 5.0 mm
- Supply voltage: 220 – 240 V
- Complies with: VDE, CEE

Technical Data

Magnetic holding force*:	18,000 N
Power consumption:	1,200 Watt
Rotational speed:	1st gear: 100 – 250 rpm 2nd gear: 180 – 450 rpm
Height:	600 – 675 mm
Stroke:	200 mm
Foot print:	240 × 108 mm
Weight:	23 kg
Collet:	Morse taper MK 2
Drill chuck:	3 – 16 mm

*actual magnetic adhesive force complies with DIN EN 10002 on a steel-plate with a thickness of 30 mm (St 37)



Article No.	Article Description	QTY
5323 108 007	MAGNETIC BASE DRILL RS 125E	1

Magnetic Base Drill RS 130e

- Allows horizontal, vertical and overhead applications
- Universally usable and easy to transport thanks to compact, lightweight design and easy handling
- Can easily be retooled with core drill bits and twist drill bits, also allowing blind holes to be drilled
- Electronic safety circuit prevents unintentional starting of the motor if the magnet has not yet been turned on
- With safety shutdown in the event of possible failure of the magnet due to external influences
- Ideal for use in steel construction, industrial construction, mechanical engineering, plant construction, ship building, bridge construction, crane construction and assembly work in metal working business

Drilling ranges:

- Twist drill (DIN 338): max. Ø 16 mm
- Twist drill (DIN 345): max. Ø 31.5 mm
- Core drill: Ø 12 – 100 mm
- Core drill cutting depth: 30 / 50 / 110 mm

Additional adjustment:

- Pivot range: ± 5°
- Displacement: ± 5,0 mm
- Power supply: 220 – 240 V
- Complies with: VDE, CEE

Technical Data

Magnetic holding force*:	18,000 N
Power consumption:	1,840 Watt
Rotational speed:	1st gear: 40 – 120 rpm 2nd gear: 160 – 450 rpm
Height:	600 – 680 mm
Travel:	200 mm
Footprint:	240 × 108 mm
Weight:	26 kg
Collet:	Morse taper MK 3
Drill chuck:	3 – 16 mm

*actual magnetic adhesive force complies with DIN EN 10002 on a steel-plate with a thickness of 30 mm (St 37)



Article No.	Article Description	QTY
5323 108 130	CORE DRILL RS130E	1

Magnetic Box Column drill RS 140e

- Allows horizontal, vertical and overhead use
- Universally usable and easy to transport thanks to compact, lightweight design and easy handling
- Can be easily switched between core drills and spiral drills, thus enabling blind holes, too
- Electronic protection circuit prevents unintentional starting of the motor as long as the magnet is not yet activated
- With safety shutdown in the event of possible failure of the magnet due to external influences
- Adjustable torque
- With clockwise / anti-clockwise rotation and electronic speed control
- Ideal for use in steel construction, industrial construction, mechanical engineering, plant construction, ship building, bridge construction, crane construction and assembly work in metalworking shops

Drilling ranges:

- Spiral drill (DIN 338): max. Ø 16 mm
- Spiral drill (DIN 1897): max. Ø 16 mm
- Spiral drill (DIN 345): max. Ø 31.5 mm
- Core drill: Ø 12 – 100 mm
- Core drill cutting depth: 30 / 50 / 110 mm
- Thread cutting: up to M30

Additional adjustment:

- Pivot range: ± 5°
- Displacement: ± 5.0 mm
- Supply voltage: 220 – 240 V
- Complies with: VDE, CEE

Technical Data

Magnetic holding force*:	18,000 N
Power consumption:	1,840 Watt
Rotational speed:	1st gear: 40 – 120 rpm 2nd gear: 70 – 180 rpm 3rd gear: 160 – 450 rpm 4th gear: 300 – 700 rpm
Height:	600 – 680 mm
Stroke:	200 mm
Foot print:	240 × 108 mm
Weight:	26 kg
Collet:	Morse taper MK 3
Drill chuck:	3 – 16 mm

*actual magnetic adhesive force complies with DIN EN 10002 on a steel-plate with a thickness of 30 mm (St 37)



Article No.	Article Description	QTY
5323 108 140	CORE DRILL RS140E	1

Core Drilling Machine Overview

Art.-No. Technical Data	5323 1 RS 5e	5323 108 001 RS 10	5323 108 006 RS 120	5323 108 007 RS 125e	5323 108 130 RS 130e	5323 108 140 RS 140 e
Mag. adhes. force	10,000 N	10,000 N	18,000 N	18,000 N	18,000 N	18,000 N
Power input	1,200 Watt	1,120 Watt	1,200 Watt	1,200 Watt	1,840 Watt	1,840 Watt
Gears	1. gear	1. gear	2. gear	2. gear	2. gear	4. gear
Speed	140 – 350 rpm	450 rpm	250 rpm 450 rpm	100 – 250 rpm 180 – 450 rpm	40 – 120 rpm 160 – 450 rpm	40 – 120 rpm 70 – 180 rpm 160 – 450 rpm 300 – 700 rpm
Speed control	yes	no	no	yes	yes	yes
Power control	no	no	no	no	no	yes
Clockw. and anti-clockwise turning	no	no	no	yes	no	yes
Height	182 mm	413 – 548 mm	600 – 675 mm	600 – 675 mm	600 – 680 mm	600 – 680 mm
Contact area	160 × 80 mm	160 × 80 mm	240 × 108 mm	240 × 108 mm	240 × 108 mm	240 × 108 mm
Weight	11 kg	13 kg	23 kg	23 kg	26 kg	26 kg
Stroke	38 mm	135 mm	200 mm	200 mm	200 mm	200 mm
Fixture	Weldon shaft 19 mm	Weldon shaft 19 mm	Morse taper MK 2	Morse taper MK 2	Morse taper MK 3	Morse taper MK 3
Core drill	Ø 12 – 35 mm	Ø 12 – 35 mm	Ø 12 – 60 mm	Ø 12 – 60 mm	Ø 12 – 100 mm	Ø 12 – 100 mm
Drill chuck	–	1 – 13 mm with adapter	3 – 16 mm	3 – 16 mm	3 – 16 mm	3 – 16 mm
Twist drills DIN 338	–	max. Ø 10 mm	max. Ø 16 mm	max. Ø 16 mm	max. Ø 16 mm	max. Ø 16 mm
Twist drills DIN 1897	–	max. Ø 13 mm	max. Ø 16 mm	max. Ø 16 mm	max. Ø 16 mm	max. Ø 16 mm
Twist drills DIN 345	–	–	max. Ø 23 mm	max. Ø 23 mm	max. Ø 31,5 mm	max. Ø 31,5 mm
Core drill cutting depth	30 mm	30 mm	30 / 50 / 110 mm	30 / 50 / 110 mm	30 / 50 / 110 mm	30 / 50 / 110 mm
Power supply voltage	220 – 240 V	220 – 240 V	220 – 240 V	220 – 240 V	220 – 240 V	220 – 240 V
Complies with	VDE, CEE	VDE, CEE	VDE, CEE	VDE, CEE	VDE, CEE	VDE, CEE
Shift	no	no	± 5,0 mm	± 5,0 mm	± 5,0 mm	± 5,0 mm
Swing	no	no	± 5°	± 5°	± 5°	± 5°
Threading	no	no	no	yes	no	yes
Additional support	no	yes	no	no	no	no
Equipment	Textile transport bag incl. 2 plastic boxes hex key safety belt Cooling fluid container + holder operation manual	Transportcase made of robust plastic hex key safety belt drill chuck 1 – 13 mm adapter for drill chuck chuck support weldon shaft glasses Cooling fluid container + holder operation manual	Transportcase made of robust plastic Trolley Taper drift safety belt drill chuck 1 – 13 mm Taper shank MK 2 / B16 chuck support weldon shaft glasses Cooling fluid container + holder drilling paste Gloves Ear plugs operation manual	Transportcase made of robust plastic Trolley Taper drift safety belt drill chuck 1 – 13 mm Taper shank MK 2 / B16 chuck support weldon shaft glasses Cooling fluid container + holder drilling paste Gloves Ear plugs operation manual	Transportcase made of robust plastic Trolley Taper drift safety belt drill chuck 1 – 13 mm Taper shank MK 2 / B16 chuck support weldon shaft glasses Cooling fluid container + holder drilling paste Gloves Ear plugs operation manual	Transportcase made of robust plastic Trolley Taper drift safety belt drill chuck 1 – 13 mm Taper shank MK 2 / B16 chuck support weldon shaft glasses Cooling fluid container + holder drilling paste Gloves Ear plugs operation manual

HSS Core Drill with Weldon Shank, 30 mm

- Cutters: HSS
- CBN ground
- Cutting depth: 30 mm
- Chuck: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machine:
 - up to Ø 35 mm: RS 5e, RS 10, RS 120, RS 125e, RS 130e, RS 140e
 - from Ø 36 mm: RS 120, RS 125e, RS 130e, RS 140e



Technical Data				
Ø mm	Dia Weldon shank mm	Total length mm	Quantity teeth	Cutting depth mm
12 – 15	19	62	4	30
16 – 19	19	62	4	30
20 – 25	19	62	6	30
26 – 28	19	62	7	30
29 – 34	19	62	8	30
35 – 37	19	62	9	30
38 – 41	19	62	10	30
42 – 60	19	62	12	30

Applications:

- Steel (T-girders, large sheets), cast steel, non-ferrous and light metals

Article No.	Article Description	QTY
5323 12	CORE DRILL HSS 12.0MM	1
5323 13	CORE DRILL HSS 13.0MM	1
5323 14	CORE DRILL HSS 14.0MM	1
5323 15	CORE DRILL HSS 15.0MM	1
5323 16	CORE DRILL HSS 16.0MM	1
5323 17	CORE DRILL HSS 17.0MM	1
5323 18	CORE DRILL HSS 18.0MM	1
5323 19	CORE DRILL HSS 19.0MM	1
5323 20	CORE DRILL HSS 20.0MM	1
5323 21	CORE DRILL HSS 21.0MM	1
5323 22	CORE DRILL HSS 22.0MM	1
5323 23	CORE DRILL HSS 23.0MM	1
5323 24	CORE DRILL HSS 24.0MM	1
5323 25	CORE DRILL HSS 25.0MM	1
5323 26	CORE DRILL HSS 26.0MM	1
5323 27	CORE DRILL HSS 27.0MM	1
5323 28	CORE DRILL HSS 28.0MM	1
5323 29	CORE DRILL HSS 29.0MM	1
5323 30	CORE DRILL HSS 30.0MM	1
5323 31	CORE DRILL HSS 31.0MM	1
5323 32	CORE DRILL HSS 32.0MM	1
5323 33	CORE DRILL HSS 33.0MM	1
5323 34	CORE DRILL HSS 34.0MM	1
5323 35	CORE DRILL HSS 35.0MM	1

Article No.	Article Description	QTY
5323 108 236	CORE DRILL HSS 36.0MM	1
5323 108 237	CORE DRILL HSS 37.0MM	1
5323 108 238	CORE DRILL HSS 38.0MM	1
5323 108 239	CORE DRILL HSS 39.0MM	1
5323 108 240	CORE DRILL HSS 40.0MM	1
5323 108 241	CORE DRILL HSS 41.0MM	1
5323 108 242	CORE DRILL HSS 42.0MM	1
5323 108 243	CORE DRILL HSS 43.0MM	1
5323 108 245	CORE DRILL HSS 45.0MM	1
5323 108 246	CORE DRILL HSS 46.0MM	1
5323 108 247	CORE DRILL HSS 47.0MM	1
5323 108 248	CORE DRILL HSS 48.0MM	1
5323 108 250	CORE DRILL HSS 50.0MM	1
5323 108 251	CORE DRILL HSS 51.0MM	1
5323 108 252	CORE DRILL HSS 52.0MM	1
5323 108 253	CORE DRILL HSS 53.0MM	1
5323 108 254	CORE DRILL HSS 54.0MM	1
5323 108 255	CORE DRILL HSS 55.0MM	1
5323 108 256	CORE DRILL HSS 56.0MM	1
5323 108 257	CORE DRILL HSS 57.0MM	1
5323 108 258	CORE DRILL HSS 58.0MM	1
5323 108 259	CORE DRILL HSS 59.0MM	1
5323 108 260	CORE DRILL HSS 60.0MM	1

Core Drill Set HSS with Weldon Shank, Ground

- 7-piece in industrial box
- Handling:**
 - Insert guide pin into core drill
 - Insert core drill into chuck and tighten Allen screws firmly
 - Ensure that core drill is correctly seated in the chuck
 - EasyLock quick-clamping device automatically adjusts core drill
 - Allows immediate drilling to final dimension, no pilot holes or center punching required
 - Core drill cutting geometry enables fast upward chip removal
 - Resilient guide pin mounted helps loosen cut pieces
 - Observe speed table and use cooling agent

Article No.	Article Description	QTY
5323 90	CORE.DR.HSS WELDON SHANK 7-PCS	1

Contents:

- Each 1x AGR 5323: core drill HSS with Weldon shank, 30 mm Ø 12 / 14 / 16 / 18 / 20 / 22 mm
- 1x Art.-No. 5323 3: guide pin Ø 6.35 mm x 77 mm for core drill HSS



Core Drill HSS with Weldon Shank, 50 mm

- Cutting: HSS
- CBN ground
- Cutting depth: 50 mm
- Fixture: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machines:
 - RS 120, RS 125e, RS 130e, RS 140e

Applications:

- Steel (T-girders, large-sized sheets), cast steel, non-ferrous and light metal



Article No.	Article Description	QTY
5323 108 512	CORE DRILL HSS 12.0MM ST 50MM	1
5323 108 513	CORE DRILL HSS 13.0MM ST 50MM	1
5323 108 514	CORE DRILL HSS 14.0MM ST 50MM	1
5323 108 515	CORE DRILL HSS 15.0MM ST 50MM	1
5323 108 516	CORE DRILL HSS 16.0MM ST 50MM	1
5323 108 517	CORE DRILL HSS 17.0MM ST 50MM	1
5323 108 518	CORE DRILL HSS 18.0MM ST 50MM	1
5323 108 519	CORE DRILL HSS 19.0MM ST 50MM	1
5323 108 520	CORE DRILL HSS 20.0MM ST 50MM	1
5323 108 521	CORE DRILL HSS 21.0MM ST 50MM	1
5323 108 522	CORE DRILL HSS 22.0MM ST 50MM	1
5323 108 523	CORE DRILL HSS 23.0MM ST 50MM	1
5323 108 524	CORE DRILL HSS 24.0MM ST 50MM	1
5323 108 525	CORE DRILL HSS 25.0MM ST 50MM	1
5323 108 526	CORE DRILL HSS 26.0MM ST 50MM	1
5323 108 527	CORE DRILL HSS 27.0MM ST 50MM	1
5323 108 528	CORE DRILL HSS 28.0MM ST 50MM	1
5323 108 529	CORE DRILL HSS 29.0MM ST 50MM	1
5323 108 530	CORE DRILL HSS 30.0MM ST 50MM	1
5323 108 531	CORE DRILL HSS 31.0MM ST 50MM	1
5323 108 532	CORE DRILL HSS 32.0MM ST 50MM	1
5323 108 533	CORE DRILL HSS 33.0MM ST 50MM	1
5323 108 534	CORE DRILL HSS 34.0MM ST 50MM	1
5323 108 535	CORE DRILL HSS 35.0MM ST 50MM	1
5323 108 536	CORE DRILL HSS 36.0MM ST 50MM	1
5323 108 537	CORE DRILL HSS 37.0MM ST 50MM	1
5323 108 538	CORE DRILL HSS 38.0MM ST 50MM	1
5323 108 539	CORE DRILL HSS 39.0MM ST 50MM	1
5323 108 540	CORE DRILL HSS 40.0MM ST 50MM	1
5323 108 541	CORE DRILL HSS 41.0MM ST 50MM	1
5323 108 542	CORE DRILL HSS 42.0MM ST 50MM	1
5323 108 543	CORE DRILL HSS 43.0MM ST 50MM	1
5323 108 544	CORE DRILL HSS 44.0MM ST 50MM	1
5323 108 545	CORE DRILL HSS 45.0MM ST 50MM	1
5323 108 546	CORE DRILL HSS 46.0MM ST 50MM	1
5323 108 547	CORE DRILL HSS 47.0MM ST 50MM	1
5323 108 548	CORE DRILL HSS 48.0MM ST 50MM	1
5323 108 549	CORE DRILL HSS 49.0MM ST 50MM	1
5323 108 550	CORE DRILL HSS 50.0MM ST 50MM	1
5323 108 551	CORE DRILL HSS 51.0MM ST 50MM	1
5323 108 552	CORE DRILL HSS 52.0MM ST 50MM	1
5323 108 553	CORE DRILL HSS 53.0MM ST 50MM	1
5323 108 554	CORE DRILL HSS 54.0MM ST 50MM	1
5323 108 555	CORE DRILL HSS 55.0MM ST 50MM	1
5323 108 556	CORE DRILL HSS 56.0MM ST 50MM	1
5323 108 557	CORE DRILL HSS 57.0MM ST 50MM	1
5323 108 558	CORE DRILL HSS 58.0MM ST 50MM	1
5323 108 559	CORE DRILL HSS 59.0MM ST 50MM	1
5323 108 560	CORE DRILL HSS 60.0MM ST 50MM	1

Technical Data				
Ø mm	Ø Weldon shank mm	Total length mm	Quantity teeth	Cutting depth mm
12 – 15	19	85	4	50
16 – 19	19	85	4	50
20 – 25	19	85	6	50
26 – 28	19	85	7	50
29 – 34	19	85	8	50
35 – 37	19	85	9	50
38 – 41	19	85	10	50
42 – 60	19	85	12	50

Core Drill HSS with Weldon Shank, 30 mm

- Cutting: 5% cobalt alloy
- CBN ground
- Cutting depth: 30 mm
- Chuck: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machines:
 - up to Ø 35 mm: RS 5e, RS 10, RS 120, RS 125e, RS 130e, RS 140e
 - from Ø 36 mm: RS 120, RS 125e, RS 130e, RS 140e



Applications:

- Steel (T-girders, large sheets), cast steel, high chrome alloyed steels such as V2VA and V4VA, non-ferrous and light metals

Article No.	Article Description	QTY
5323 1 12	CORE DRILL HSS CO5 12.0MM	1
5323 1 13	CORE DRILL HSS CO5 13.0MM	1
5323 1 14	CORE DRILL HSS CO5 14.0MM	1
5323 1 15	CORE DRILL HSS CO5 15.0MM	1
5323 1 16	CORE DRILL HSS CO5 16.0MM	1
5323 1 17	CORE DRILL HSS CO5 17.0MM	1
5323 1 18	CORE DRILL HSS CO5 18.0MM	1
5323 1 19	CORE DRILL HSS CO5 19.0MM	1
5323 1 20	CORE DRILL HSS CO5 20.0MM	1
5323 1 21	CORE DRILL HSS CO5 21.0MM	1
5323 1 22	CORE DRILL HSS CO5 22.0MM	1
5323 1 23	CORE DRILL HSS CO5 23.0MM	1
5323 1 24	CORE DRILL HSS CO5 24.0MM	1
5323 1 25	CORE DRILL HSS CO5 25.0MM	1
5323 1 26	CORE DRILL HSS CO5 26.0MM	1
5323 1 27	CORE DRILL HSS CO5 27.0MM	1
5323 1 28	CORE DRILL HSS CO5 28.0MM	1
5323 1 29	CORE DRILL HSS CO5 29.0MM	1
5323 1 30	CORE DRILL HSS CO5 30.0MM	1
5323 1 31	CORE DRILL HSS CO5 31.0MM	1
5323 1 32	CORE DRILL HSS CO5 32.0MM	1
5323 1 33	CORE DRILL HSS CO5 33.0MM	1
5323 1 34	CORE DRILL HSS CO5 34.0MM	1
5323 1 35	CORE DRILL HSS CO5 35.0MM	1
5323 1 108 236	CORE DRILL HSS CO5 36.0MM	1
5323 1 108 237	CORE DRILL HSS CO5 37.0MM	1
5323 1 108 238	CORE DRILL HSS CO5 38.0MM	1
5323 1 108 239	CORE DRILL HSS CO5 39.0MM	1
5323 1 108 240	CORE DRILL HSS CO5 40.0MM	1
5323 1 108 241	CORE DRILL HSS CO5 41.0MM	1
5323 1 108 242	CORE DRILL HSS CO5 42.0MM	1
5323 1 108 243	CORE DRILL HSS CO5 43.0MM	1
5323 1 108 244	CORE DRILL HSS CO5 44.0MM	1
5323 1 108 245	CORE DRILL HSS CO5 45.0MM	1
5323 1 108 246	CORE DRILL HSS CO5 46.0MM	1
5323 1 108 247	CORE DRILL HSS CO5 47.0MM	1
5323 1 108 248	CORE DRILL HSS CO5 48.0MM	1
5323 1 108 249	CORE DRILL HSS CO5 49.0MM	1
5323 1 108 250	CORE DRILL HSS CO5 50.0MM	1
5323 1 108 251	CORE DRILL HSS CO5 51.0MM	1
5323 1 108 252	CORE DRILL HSS CO5 52.0MM	1
5323 1 108 253	CORE DRILL HSS CO5 53.0MM	1
5323 1 108 254	CORE DRILL HSS CO5 54.0MM	1
5323 1 108 255	CORE DRILL HSS CO5 55.0MM	1
5323 1 108 256	CORE DRILL HSS CO5 56.0MM	1
5323 1 108 257	CORE DRILL HSS CO5 57.0MM	1
5323 1 108 258	CORE DRILL HSS CO5 58.0MM	1
5323 1 108 259	CORE DRILL HSS CO5 59.0MM	1
5323 1 108 260	CORE DRILL HSS CO5 60.0MM	1

Technical Data				
Ø mm	Weldon shank mm	Total length mm	Quantity teeth	Cutting depth mm
12 – 15	19	62	4	30
16 – 19	19	62	4	30
20 – 25	19	62	6	30
26 – 28	19	62	7	30
29 – 34	19	62	8	30
35 – 37	19	62	9	30
38 – 41	19	62	10	30
42 – 60	19	62	12	30

Core Drill HSS-TiAlN with Weldon Shank, 30 mm

- Cutters: titanium-aluminium-nitride coating
- CBN ground
- Cutting depth: 30 mm
- Chuck: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machines
 - up to Ø 35 mm: RS 5e, RS 10, RS 120, RS 125e, RS 130e, RS 140e
 - from Ø 36 mm: RS 120, RS 125e, RS 130e, RS 140e



Applications:

- Steel (T-girders, large sheets), cast steel, high chrome alloyed steels such as V2A and V4A, non-ferrous and light metals

Article No.	Article Description	QTY
5323 2 12	CORE DRILL HSS TIALN 12.0MM	1
5323 2 13	CORE DRILL HSS TIALN 13.0MM	1
5323 2 14	CORE DRILL HSS TIALN 14.0MM	1
5323 2 15	CORE DRILL HSS TIALN 15.0MM	1
5323 2 16	CORE DRILL HSS TIALN 16.0MM	1
5323 2 17	CORE DRILL HSS TIALN 17.0MM	1
5323 2 18	CORE DRILL HSS TIALN 18.0MM	1
5323 2 19	CORE DRILL HSS TIALN 19.0MM	1
5323 2 20	CORE DRILL HSS TIALN 20.0MM	1
5323 2 21	CORE DRILL HSS TIALN 21.0MM	1
5323 2 22	CORE DRILL HSS TIALN 22.0MM	1
5323 2 23	CORE DRILL HSS TIALN 23.0MM	1
5323 2 24	CORE DRILL HSS TIALN 24.0MM	1
5323 2 25	CORE DRILL HSS TIALN 25.0MM	1
5323 2 26	CORE DRILL HSS TIALN 26.0MM	1
5323 2 27	CORE DRILL HSS TIALN 27.0MM	1
5323 2 28	CORE DRILL HSS TIALN 28.0MM	1
5323 2 29	CORE DRILL HSS TIALN 29.0MM	1
5323 2 30	CORE DRILL HSS TIALN 30.0MM	1
5323 2 31	CORE DRILL HSS TIALN 31.0MM	1
5323 2 32	CORE DRILL HSS TIALN 32.0MM	1
5323 2 33	CORE DRILL HSS TIALN 33.0MM	1
5323 2 34	CORE DRILL HSS TIALN 34.0MM	1
5323 2 35	CORE DRILL HSS TIALN 35.0MM	1
5323 2 108 236	CORE DRILL HSS TIALN 36.0MM	1
5323 2 108 237	CORE DRILL HSS TIALN 37.0MM	1
5323 2 108 238	CORE DRILL HSS TIALN 38.0MM	1
5323 2 108 239	CORE DRILL HSS TIALN 39.0MM	1
5323 2 108 240	CORE DRILL HSS TIALN 40.0MM	1
5323 2 108 241	CORE DRILL HSS TIALN 41.0MM	1
5323 2 108 242	CORE DRILL HSS TIALN 42.0MM	1
5323 2 108 243	CORE DRILL HSS TIALN 43.0MM	1
5323 2 108 244	CORE DRILL HSS TIALN 44.0MM	1
5323 2 108 245	CORE DRILL HSS TIALN 45.0MM	1
5323 2 108 246	CORE DRILL HSS TIALN 46.0MM	1
5323 2 108 247	CORE DRILL HSS TIALN 47.0MM	1
5323 2 108 248	CORE DRILL HSS TIALN 48.0MM	1
5323 2 108 249	CORE DRILL HSS TIALN 49.0MM	1
5323 2 108 250	CORE DRILL HSS TIALN 50.0MM	1
5323 2 108 251	CORE DRILL HSS TIALN 51.0MM	1
5323 2 108 252	CORE DRILL HSS TIALN 52.0MM	1
5323 2 108 253	CORE DRILL HSS TIALN 53.0MM	1
5323 2 108 254	CORE DRILL HSS TIALN 54.0MM	1
5323 2 108 255	CORE DRILL HSS TIALN 55.0MM	1
5323 2 108 256	CORE DRILL HSS TIALN 56.0MM	1
5323 2 108 257	CORE DRILL HSS TIALN 57.0MM	1
5323 2 108 258	CORE DRILL HSS TIALN 58.0MM	1
5323 2 108 259	CORE DRILL HSS TIALN 59.0MM	1
5323 2 108 260	CORE DRILL HSS TIALN 60.0MM	1

Technical Data				
Ø mm	Weldon shank mm	Total length mm	Quantity teeth	Cutting depth mm
12 – 15	19	62	4	30
16 – 19	19	62	4	30
20 – 25	19	62	6	30
26 – 28	19	62	7	30
29 – 34	19	62	8	30
35 – 37	19	62	9	30
38 – 41	19	62	10	30
42 – 60	19	62	12	30

Core Drill HSS-E with Quick IN Shank, 35 mm

- Cutting: Alloyed with cobalt (5%)
- CBN ground
- Cutting depth: 35 mm
- Fixture: Quick IN shank Ø 18 mm
- Right-hand cutting

Applications:

- Steel (T-girders, large-sized sheets), cast steel, high chrome alloyed steels such as V2A and V4A, non-ferrous and light metal



Article No.	Article Description	QTY
5323 1 108 912	CORE DRILL HSS CO5 12.0MM Q.IN	1
5323 1 108 913	CORE DRILL HSS CO5 13.0MM Q.IN	1
5323 1 108 914	CORE DRILL HSS CO5 14.0MM Q.IN	1
5323 1 108 915	CORE DRILL HSS CO5 15.0MM Q.IN	1
5323 1 108 916	CORE DRILL HSS CO5 16.0MM Q.IN	1
5323 1 108 917	CORE DRILL HSS CO5 17.0MM Q.IN	1
5323 1 108 918	CORE DRILL HSS CO5 18.0MM Q.IN	1
5323 1 108 919	CORE DRILL HSS CO5 19.0MM Q.IN	1
5323 1 108 920	CORE DRILL HSS CO5 20.0MM Q.IN	1
5323 1 108 921	CORE DRILL HSS CO5 21.0MM Q.IN	1
5323 1 108 922	CORE DRILL HSS CO5 22.0MM Q.IN	1
5323 1 108 923	CORE DRILL HSS CO5 23.0MM Q.IN	1
5323 1 108 924	CORE DRILL HSS CO5 24.0MM Q.IN	1
5323 1 108 925	CORE DRILL HSS CO5 25.0MM Q.IN	1
5323 1 108 926	CORE DRILL HSS CO5 26.0MM Q.IN	1
5323 1 108 927	CORE DRILL HSS CO5 27.0MM Q.IN	1
5323 1 108 928	CORE DRILL HSS CO5 28.0MM Q.IN	1
5323 1 108 929	CORE DRILL HSS CO5 29.0MM Q.IN	1
5323 1 108 930	CORE DRILL HSS CO5 30.0MM Q.IN	1
5323 1 108 932	CORE DRILL HSS CO5 32.0MM Q.IN	1
5323 1 108 934	CORE DRILL HSS CO5 34.0MM Q.IN	1
5323 1 108 935	CORE DRILL HSS CO5 35.0MM Q.IN	1
5323 1 108 936	CORE DRILL HSS CO5 36.0MM Q.IN	1
5323 1 108 940	CORE DRILL HSS CO5 40.0MM Q.IN	1
5323 1 108 943	CORE DRILL HSS CO5 43.0MM Q.IN	1
5323 1 108 944	CORE DRILL HSS CO5 44.0MM Q.IN	1
5323 1 108 945	CORE DRILL HSS CO5 45.0MM Q.IN	1
5323 1 108 950	CORE DRILL HSS CO5 50.0MM Q.IN	1
5323 1 108 955	CORE DRILL HSS CO5 55.0MM Q.IN	1
5323 1 108 958	CORE DRILL HSS CO5 58.0MM Q.IN	1
5323 1 108 959	CORE DRILL HSS CO5 59.0MM Q.IN	1
5323 1 108 960	CORE DRILL HSS CO5 60.0MM Q.IN	1

Technical Data				
Ø	Ø Quick IN Shank	Total length	Quantity	Cutting depth
mm	mm	mm	teeth	mm
12 – 15	18	77	4	35
16 – 19	18	77	5	35
20 – 25	18	77	6	35
26 – 28	18	77	7	35
29 – 34	18	77	8	35
35 – 37	18	77	9	35
38 – 41	18	77	10	35
42 – 60	18	77	12	35

Core Drill Carbide with Quick IN Shank, 35/50 mm

- Cutting: carbide
- CBN ground
- Cutting depth
 - up to Ø 32 mm: 35 mm
 - from Ø 33 mm: 50 mm
- Fixture: Quick IN Shank Ø 18 mm
- Right-hand cutting

Applications:

- Steel (T-girders, large-sized sheets), cast steel, high chrome alloyed steels such as V2A and V4A, non-ferrous and light metal



Article No.	Article Description	QTY
5323 108 1112	CORE DRILL HM 12.0MM QUICK IN	1
5323 108 1113	CORE DRILL HM 13.0MM QUICK IN	1
5323 108 1114	CORE DRILL HM 14.0MM QUICK IN	1
5323 108 1115	CORE DRILL HM 15.0MM QUICK IN	1
5323 108 1116	CORE DRILL HM 16.0MM QUICK IN	1
5323 108 1117	CORE DRILL HM 17.0MM QUICK IN	1
5323 108 1118	CORE DRILL HM 18.0MM QUICK IN	1
5323 108 1119	CORE DRILL HM 19.0MM QUICK IN	1
5323 108 1120	CORE DRILL HM 20.0MM QUICK IN	1
5323 108 1121	CORE DRILL HM 21.0MM QUICK IN	1
5323 108 1122	CORE DRILL HM 22.0MM QUICK IN	1
5323 108 1123	CORE DRILL HM 23.0MM QUICK IN	1
5323 108 1124	CORE DRILL HM 24.0MM QUICK IN	1
5323 108 1125	CORE DRILL HM 25.0MM QUICK IN	1
5323 108 1126	CORE DRILL HM 26.0MM QUICK IN	1
5323 108 1127	CORE DRILL HM 27.0MM QUICK IN	1
5323 108 1128	CORE DRILL HM 28.0MM QUICK IN	1
5323 108 1129	CORE DRILL HM 29.0MM QUICK IN	1
5323 108 1130	CORE DRILL HM 30.0MM QUICK IN	1
5323 108 1131	CORE DRILL HM 31.0MM QUICK IN	1
5323 108 1132	CORE DRILL HM 32.0MM QUICK IN	1
5323 108 1133	CORE DRILL HM 33.0MM QUICK IN	1
5323 108 1134	CORE DRILL HM 34.0MM QUICK IN	1
5323 108 1135	CORE DRILL HM 35.0MM QUICK IN	1
5323 108 1136	CORE DRILL HM 36.0MM QUICK IN	1
5323 108 1137	CORE DRILL HM 37.0MM QUICK IN	1
5323 108 1138	CORE DRILL HM 38.0MM QUICK IN	1
5323 108 1139	CORE DRILL HM 39.0MM QUICK IN	1
5323 108 1140	CORE DRILL HM 40.0MM QUICK IN	1
5323 108 1141	CORE DRILL HM 41.0MM QUICK IN	1
5323 108 1142	CORE DRILL HM 42.0MM QUICK IN	1
5323 108 1143	CORE DRILL HM 43.0MM QUICK IN	1
5323 108 1144	CORE DRILL HM 44.0MM QUICK IN	1
5323 108 1145	CORE DRILL HM 45.0MM QUICK IN	1
5323 108 1146	CORE DRILL HM 46.0MM QUICK IN	1
5323 108 1147	CORE DRILL HM 47.0MM QUICK IN	1
5323 108 1148	CORE DRILL HM 48.0MM QUICK IN	1
5323 108 1149	CORE DRILL HM 49.0MM QUICK IN	1
5323 108 1150	CORE DRILL HM 50.0MM QUICK IN	1
5323 108 1151	CORE DRILL HM 51.0MM QUICK IN	1
5323 108 1152	CORE DRILL HM 52.0MM QUICK IN	1
5323 108 1153	CORE DRILL HM 53.0MM QUICK IN	1
5323 108 1154	CORE DRILL HM 54.0MM QUICK IN	1
5323 108 1155	CORE DRILL HM 55.0MM QUICK IN	1
5323 108 1160	CORE DRILL HM 60.0MM QUICK IN	1
5323 108 1161	CORE DRILL HM 61.0MM QUICK IN	1
5323 108 1163	CORE DRILL HM 63.0MM QUICK IN	1
5323 108 1165	CORE DRILL HM 65.0MM QUICK IN	1
5323 108 1168	CORE DRILL HM 68.0MM QUICK IN	1
5323 108 1170	CORE DRILL HM 70.0MM QUICK IN	1
5323 108 1171	CORE DRILL HM 71.0MM QUICK IN	1
5323 108 1175	CORE DRILL HM 75.0MM QUICK IN	1
5323 108 1180	CORE DRILL HM 80.0MM QUICK IN	1

Technical Data				
Ø	Ø Quick IN Shank	Total length	Quantity	Cutting depth
mm	mm	mm	teeth	mm
12 – 15	18	77	4	35
16 – 19	18	77	5	35
20 – 32	18	77	6	35
33 – 38	18	105	6	50
39 – 80	18	105	8	50

Core Drill, Carbide with Weldon Shank, 50 mm

- Cutting: carbide
- Cutting depth: 50 mm
- Fixture: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machines:
 - RS 120, RS 125e, RS 130e, RS 140e

Applications:

- Hardox/Weldox steel, steel (T-girders, large-sized sheets), cast steel, high chrome steels such as V2A and V4A, non-ferrous and light metal



Article No.	Article Description	QTY
5323 108 718	CORE DRILL HM 18.0MM ST 50MM	1
5323 108 719	CORE DRILL HM 19.0MM ST 50MM	1
5323 108 720	CORE DRILL HM 20.0MM ST 50MM	1
5323 108 721	CORE DRILL HM 21.0MM ST 50MM	1
5323 108 722	CORE DRILL HM 22.0MM ST 50MM	1
5323 108 723	CORE DRILL HM 23.0MM ST 50MM	1
5323 108 724	CORE DRILL HM 24.0MM ST 50MM	1
5323 108 725	CORE DRILL HM 25.0MM ST 50MM	1
5323 108 726	CORE DRILL HM 26.0MM ST 50MM	1
5323 108 727	CORE DRILL HM 27.0MM ST 50MM	1
5323 108 728	CORE DRILL HM 28.0MM ST 50MM	1
5323 108 729	CORE DRILL HM 29.0MM ST 50MM	1
5323 108 730	CORE DRILL HM 30.0MM ST 50MM	1
5323 108 731	CORE DRILL HM 31.0MM ST 50MM	1
5323 108 732	CORE DRILL HM 32.0MM ST 50MM	1
5323 108 733	CORE DRILL HM 33.0MM ST 50MM	1
5323 108 734	CORE DRILL HM 34.0MM ST 50MM	1
5323 108 735	CORE DRILL HM 35.0MM ST 50MM	1
5323 108 736	CORE DRILL HM 36.0MM ST 50MM	1
5323 108 737	CORE DRILL HM 37.0MM ST 50MM	1
5323 108 738	CORE DRILL HM 38.0MM ST 50MM	1
5323 108 739	CORE DRILL HM 39.0MM ST 50MM	1
5323 108 740	CORE DRILL HM 40.0MM ST 50MM	1
5323 108 741	CORE DRILL HM 41.0MM ST 50MM	1
5323 108 742	CORE DRILL HM 42.0MM ST 50MM	1
5323 108 743	CORE DRILL HM 43.0MM ST 50MM	1
5323 108 744	CORE DRILL HM 44.0MM ST 50MM	1
5323 108 745	CORE DRILL HM 45.0MM ST 50MM	1
5323 108 746	CORE DRILL HM 46.0MM ST 50MM	1
5323 108 747	CORE DRILL HM 47.0MM ST 50MM	1
5323 108 748	CORE DRILL HM 48.0MM ST 50MM	1
5323 108 749	CORE DRILL HM 49.0MM ST 50MM	1
5323 108 750	CORE DRILL HM 50.0MM ST 50MM	1

Technical Data				
Ø	Ø Weldon shank	Total length	Quantity	Cutting depth
mm	mm	mm	teeth	mm
18 – 35	19	93	6	50
36 – 50	19	93	9	50

Core Drill Carbide with Mounting Thread, 50 mm

- Cutting: carbide
- Cutting depth: 50 mm
- Fixture: thread M18 x 6 P1.5
- Right-hand cutting
- Suitable for core drilling machines:
 - RS 120, RS 125e, RS 130e, RS 140e

Applications:

- Steel (T-girders, large-sized sheets), cast steel, high chrome alloyed steels such as V2A and V4A, non-ferrous and light metal



Article No.	Article Description	QTY
5323 108 012	CORE DRILL HM12.0MM MOUNT.THR.	1
5323 108 013	CORE DRILL HM13.0MM MOUNT.THR.	1
5323 108 014	CORE DRILL HM14.0MM MOUNT.THR.	1
5323 108 015	CORE DRILL HM15.0MM MOUNT.THR.	1
5323 108 016	CORE DRILL HM16.0MM MOUNT.THR.	1
5323 108 017	CORE DRILL HM17.0MM MOUNT.THR.	1
5323 108 018	CORE DRILL HM18.0MM MOUNT.THR.	1
5323 108 019	CORE DRILL HM19.0MM MOUNT.THR.	1
5323 108 020	CORE DRILL HM20.0MM MOUNT.THR.	1
5323 108 022	CORE DRILL HM22.0MM MOUNT.THR.	1
5323 108 025	CORE DRILL HM25.0MM MOUNT.THR.	1
5323 108 027	CORE DRILL HM27.0MM MOUNT.THR.	1
5323 108 030	CORE DRILL HM30.0MM MOUNT.THR.	1
5323 108 031	CORE DRILL HM31.0MM MOUNT.THR.	1
5323 108 032	CORE DRILL HM32.0MM MOUNT.THR.	1
5323 108 033	CORE DRILL HM33.0MM MOUNT.THR.	1
5323 108 034	CORE DRILL HM34.0MM MOUNT.THR.	1
5323 108 036	CORE DRILL HM36.0MM MOUNT.THR.	1
5323 108 037	CORE DRILL HM37.0MM MOUNT.THR.	1
5323 108 038	CORE DRILL HM38.0MM MOUNT.THR.	1
5323 108 039	CORE DRILL HM39.0MM MOUNT.THR.	1
5323 108 040	CORE DRILL HM40.0MM MOUNT.THR.	1
5323 108 042	CORE DRILL HM42.0MM MOUNT.THR.	1
5323 108 043	CORE DRILL HM43.0MM MOUNT.THR.	1
5323 108 045	CORE DRILL HM45.0MM MOUNT.THR.	1
5323 108 046	CORE DRILL HM46.0MM MOUNT.THR.	1
5323 108 047	CORE DRILL HM47.0MM MOUNT.THR.	1
5323 108 048	CORE DRILL HM48.0MM MOUNT.THR.	1
5323 108 049	CORE DRILL HM49.0MM MOUNT.THR.	1
5323 108 050	CORE DRILL HM50.0MM MOUNT.THR.	1
5323 108 051	CORE DRILL HM51.0MM MOUNT.THR.	1
5323 108 052	CORE DRILL HM52.0MM MOUNT.THR.	1
5323 108 053	CORE DRILL HM53.0MM MOUNT.THR.	1
5323 108 054	CORE DRILL HM54.0MM MOUNT.THR.	1
5323 108 055	CORE DRILL HM55.0MM MOUNT.THR.	1
5323 108 060	CORE DRILL HM60.0MM MOUNT.THR.	1
5323 108 061	CORE DRILL HM61.0MM MOUNT.THR.	1
5323 108 063	CORE DRILL HM63.0MM MOUNT.THR.	1
5323 108 065	CORE DRILL HM65.0MM MOUNT.THR.	1
5323 108 070	CORE DRILL HM70.0MM MOUNT.THR.	1
5323 108 071	CORE DRILL HM71.0MM MOUNT.THR.	1
5323 108 080	CORE DRILL HM80.0MM MOUNT.THR.	1

Technical Data				
Ø mm	For Tool holder	Total length mm	Quantity teeth	Cutting depth mm
12 – 17	MT 2 / MT 3	82	4	50
18 – 38	MT 2 / MT 3	82	6	50
39 – 75	MT 2 / MT 3	82	8	50
80	MT 2 / MT 3	82	10	50

Solid HSS Drill with Weldon Shank, 30 mm

- Cutters: HSS
- CBN ground
- Cutting depth: 30 mm
- Chuck: Weldon shank Ø 19 mm (3/4")
- Right-hand cutting
- Suitable for core drilling machines:
 - RS 5e, RS 10, RS 120, RS 125e, RS 130e, RS 140e
- Slotted 3-cutter geometry provides for extremely high stability of the solid drill and prevents risk of breakage of the cutting edge caused by overstraining or jamming of chippings

Applications:

- Steel (T-girders, large sheets), cast steel, non-ferrous and light metals



Technical Data			
Ø mm	Weldon shank Ø mm	Total length mm	Cutting depth mm
1 – 15	19	64	30

Article No.	Article Description	QTY
5323 3 10	SOLID DRILL HSS 10.0MM	1
5323 3 11	SOLID DRILL HSS 11.0MM	1
5323 3 12	SOLID DRILL HSS 12.0MM	1

Article No.	Article Description	QTY
5323 3 13	SOLID DRILL HSS 13.0MM	1
5323 3 14	SOLID DRILL HSS 14.0MM	1
5323 3 15	SOLID DRILL HSS 15.0MM	1

Solid Drill HSS with Quick IN Shank, 30 mm

- Cutting: HSS
- CBN ground
- Cutting depth: 30 mm
- Fixture: Quick IN shank Ø 18 mm
- Right-hand cutting
- Suitable for core drilling machines with tool holder Quick IN shank

Applications:

- Steel (T-girders, large-sized sheets), cast steel, non-ferrous and light metals
- Slotted 3-cutting geometry provides for extreme high stability of solid drill and prevents risk of breakage of the cutting edge caused by overstraining or seizing



Technical Data			
Ø mm	Ø Quick IN shank mm	Total length mm	Cutting depth mm
10 – 15	18	64	30

Article No.	Article Description	QTY
5323 108 1223	SOLID DRILL HSS13.0MM QUICK IN	1
5323 108 1224	SOLID DRILL HSS14.0MM QUICK IN	1
5323 108 1225	SOLID DRILL HSS15.0MM QUICK IN	1

Vacuum Clamping Plate w. Compressed-air Connection

- Makes application of magnetic column drill machines on non-magnetic surfaces possible

Application:

- To achieve maximum adhesive force the area to be treated must be free of dust, tinder, loosen rust and residuals of fillings
- For safety reasons use the vacuum plate in horizontal position



Technical Data

Length:	400 mm (16")
Width:	153 mm (6")
Height:	100 mm (4")
Weight:	2.4 kg (5.3 lbs)
Working pressure min.:	4.5 bar (65 PSI)
Working pressure max.:	8 bar (120 PSI)
Air consumption:	60 l/min 2 CFM at 6 bar (85 PSI)

Article No.	Article Description	QTY
5323 108 113	VACUUM CLAMPING PLATE	1

Pipe Clamping Device

- Makes application of magnetic column drill machines on pipes with Ø 50 - 500 mm possible

Application:

- For safety reasons the Pipe Clamping Device should only been used in horizontal position



Technical Data

Length:	220 mm (8.7")
Width:	130 mm (5.1")
Height:	28 mm (1.1")
Tension belt:	2 mm (1.1")
Weight:	4.4 kg (9.7 lbs)
Tensioning medium:	ratchet

Article No.	Article Description	QTY
5323 108 114	PIPE CLAMPING DEVICE	1

Quick-change Chuck - Automatic Easy Lock

- For core drilling machines with Weldon shank Ø 19 mm (3/4")

Technical Data		
Art.-No.	For core drilling machine	For Ø mm
5323 108 312	RS 20 and RS 25e with MK 2 shank	10 – 60
5323 108 313	RS 30e and RS 40e with MK 3 shank	10 – 60

Article No.	Article Description	QTY
5323 108 312	EASY LOCK 10.0-60.0MM KF WDS	1
5323 108 313	EASY LOCK KF WDS	1

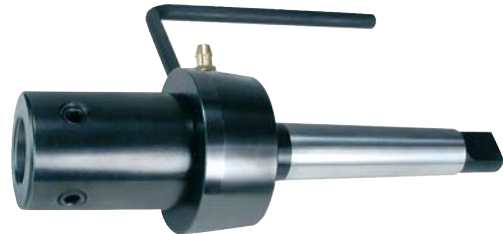


Tool Holder with Weldon Shank

- For core drilling machines with Weldon shank Ø 19 mm (3/4")

Technical Data		
Art.-No.	For core drilling machines	For Ø mm
5323 108 302	MT 2 shank, cutting depth: 30/50 mm	10 – 60
5323 108 303	MT 3 shank, cutting depth: 30/50 mm	10 – 60

Article No.	Article Description	QTY
5323 108 302	TOOL HOLDER MT2 KF WDS	1
5323 108 303	TOOL HOLDER MT3 KF WDS	1



Tool Holder Weldon Shank with Internal Cooling

- For core drilling machines with Weldon shank Ø 19 mm (3/4")
- For cutting depth: 30 / 50 mm
- For drill with Ø 10 – 60 mm



Article No.	Article Description	QTY
5323 108 315	TOOL HOLDER WDS MT2 IK	1
5323 108 316	TOOL HOLDER WDS MT3 IK	1

Tool Holder Mounting Thread

- For core drill with mounting thread M18 x 6 P1.5

Technical Data		
Art.-No.	For core drill	For Ø mm
5323 108 102	MT 2 shank	12 – 80
5323 108 103	MT 3 shank	12 – 80



Article No.	Article Description	QTY
5323 108 102	TOOL HOLDER MT2 KF MOUN.THREAD	1
5323 108 103	TOOL HOLDER MT3 KF MOUN.THREAD	1

Tool Holder Mount. Thread with Intern. Cooling

- For core drill with mounting thread M18 x 6 P1.5

Technical Data		
Art.-No.	For core drill	For Ø mm
5323 108 104	MT 2 shank	12 – 80
5323 108 105	MT 3 shank	12 – 80



Article No.	Article Description	QTY
5323 108 104	TOOL HOLD.MT2 IK MOUNT.THREAD	1
5323 108 105	TOOL HOLD.MT3 IK MOUNT.THREAD	1

Adaptor with Threaded Shank M14

- For core drilling machine: RS 10
- For drill chuck with mounting thread 1/2" UNF

Article No.	Article Description	QTY
5323 108 115	ADAPT.W.THR.SHANK M14 FOR RS10	1



Adaptor with Weldon Shank

- For core drilling machines:
- RS 10, RS 20, RS 120, RS 25e, RS 125e, RS 30e, RS130e, RS 40e, RS 140e

Art.-No. 5323 108 108:

- For core drill with mounting thread M18 x 6 P1.5

Art.-No. 5323 108 109:

- For drill chuck mounting thread 1/2" UNF

Art.-No. 5323 108 126:

- For core drill for Quick IN shank Ø 18 mm

Article No.	Article Description	QTY
5323 108 108	ADAPTER W.WDS FOR MOUNT.THREAD	1
5323 108 109	ADAPTER W.WDS FOR DRILL CHUCK	1
5323 108 126	ADAPTER WITH WDS FOR QUICK IN	1



5323 108 108



5323 108 109



5323 108 126

Adapter with Quick IN Shank

Art.-No. 5323 108 111:

- For core drill with mounting thread M18 x 6 P1.5

Art.-No. 5323 108 118:

- For core drill with Weldon shank Ø 19 mm (3/4")

Article No.	Article Description	QTY
5323 108 111	ADAPT.WITH Q.IN FOR MOUNT.THRE	1
5323 108 118	ADAPTOR WITH QUICK IN FOR WDS	1



5323 108 111



5323 108 118

Guide Pins for Core Drill

Technical Data		
Art.-No.	Characteristics	For cutting depth mm
5323 108 310	for Step Drill HSS Ø 6.35 × 95 mm with Weldon-/Quick IN Shank	15
5323 108 306	for core drill HSS and HM Ø 6.35 × 87 mm with Quick IN Shank	35
5323 3	for core drill HSS Ø 6.35 × 77 mm with Weldon shank	30
5323 108 305	for core drill HSS Ø 6.35 × 102 mm with Weldon shank	50
5323 108 110	for core drill HSS and HM Ø 6.35 × 123 mm with Weldon-/Quick IN Shank	50 + Adaptor
5323 108 701	for core drill HM Ø 8 × 112 mm with Weldon shank	50



Article No.	Article Description	QTY
5323 108 310	GUIDE PIN FOR STEP DRILL HSS	1
5323 108 306	GUIDE PIN FOR HSS+HM QUICK IN	1
5323 3	GUIDE PIN FOR CORE DRILL HSS	1
5323 108 305	GUIDE PIN FOR HSS 102MM	1
5323 108 110	GUIDE PIN FOR HSS+HM WDS/QIN	1
5323 108 701	GUIDE PIN FOR HM WDS 8X11.2MM	1

Drill Chuck

- For core drilling machines:
 - RS 10, RS 20, RS 120, RS 25e, RS 125e, RS 30e, RS 130e, RS 40e, RS 140e

Technical Data		
Art.-No.	For core drilling machines	Ø clamping area mm
5323 108 116	RS 10 with mounting thread 1/2" UNF	1 - 13
5323 108 117	RS 20, RS 25e, RS 30e, RS 40e with taper fixture B16	3 - 16



Article No.	Article Description	QTY
5323 108 116	DRILL CHUCK 1.0-13MM	1
5323 108 117	DRILL CHUCK 3.0-16MM	1

Morse Taper Mandrel and Drill Sleeve

- For core drilling machines:
 - RS 20, RS 120, RS 25e, RS 125e, RS 30e, RS 130e, RS 40e, RS 140e

Technical Data	
Art.-No.	Taper mandrel
5597 216	MT 2 for drill chuck with taper fixture B16
5597 316	MT 3 for drill chuck with taper fixture B16
5512 32	MT 3 on MT 2



5597 2 16



5512 32

Article No.	Article Description	QTY
5597 2 16	TAPER SHANK DIN238 MT 2-B 16	1
5597 3 16	TAPER SHANK DIN238 MT 3-B 16	1
5512 32	MORSE TAPER RED.SLEEVE A3/12	1

Coolant Bottle

- Filling quantity max. 500 ml

Technical Data	
Art.-No.	
5323 108 101	with sprayer
5323 108 122	with shut-off valve

Article No.	Article Description	QTY
5323 108 101	COOLANT BOTTLE WITH SPRAYER	1
5323 108 122	COOLANT B.WITH SHUT-OFF VALVE	1

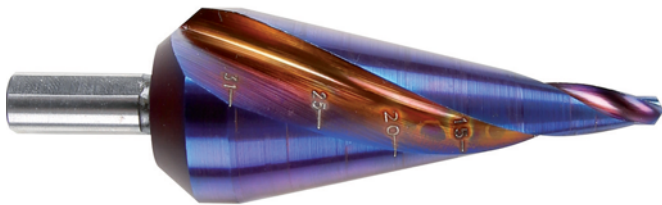


Cone Cutter HSS, MULTI-TT FORCH*****

- Cone cutter for exact, burr-free drilling and reaming of sheets and profiles up to max. 6 mm material thickness
- ROTASTOP® shaft, cylindrical
- With spiral groove and fixed centring tip with split point
- 2-blade geometry
- Laser scaling
- Multi-TT coating (TiAlN / TiN Multilayer)
- Coating hardness: 3,100 HV
- Coating thickness: 2 µm
- Temperature resistance of coating: 650 °C
- Made in Germany



5521 5 2



5521 5 10



5529 5 5521

Article No.	Article Description	QTY
5521 5 2	CONE CUTT.MULT-TT 5-20MM S8 5*	1
5521 5 10	CONE CUTT.MULT-TT 5-31MM S9 5*	1
5529 5 5521	CONE CUTT.BOX MULT-TT 2-PCE 5*	1

(Ø drill mm, S = Ø shaft mm)

Contents Art. No. 5529 5 5521:

- each 1x cone cutter HSS MULTI-TT Ø 5 – 20 / 5 – 31 mm

Your Advantage / Benefit

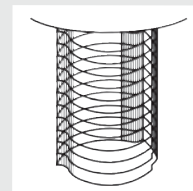
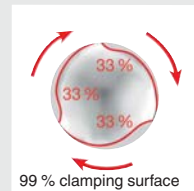
- 25 % longer service life
- MULTI-TT coating (TiAlN / TiN Multilayer), with good wear behaviour and thermal stability for a longer service life
- ROTASTOP® shaft for force-fit connection and optimal torque transmission, easy tool exchange, clamps automatically and prevents slipping in the drill chuck
- With spiral groove for optimal cutting behaviour with controlled chip removal, steady function with reduced energy consumption
- Centring tip with split point, no drill wandering, no centre punching and pre-drilling necessary
- Laser scaling with specified hole diameter for more precise function

Application

- Exact, burr-free centring, drilling, deburring, and reaming of sheets and profiles up to max. 6 mm material thickness
- Steel, cast iron, non-ferrous metals, aluminium alloys with a rigidity of up to 1,000 N/mm², stainless steel with a rigidity of up to 800 N/mm²



ROTASTOP® shaft



Burr-free drilling



Technical Data			
Art. No.	Scaling Ø in mm	Total length mm	Ø shaft mm
5521 5 2	6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 20.0	76.5	8.0
5521 5 10	10.0 / 15.0 / 20.0 / 25.0 / 31.0	103.0	9.0

Cone Cutter HSS

- For burr-free drilling and reaming of sheets, pipes and profiles
- With two blades and fixed centring tip with split point
- Shaft with 3 bevels prevents slipping in the chuck
- Point angle 118°

Application areas:

- Steel <900 N/mm² tensile strength, aluminium, brass, plastic, cast iron and bronze
- Constructional steel, soft, 0.1 – 2.0 mm
- Non-ferrous metals 0.1 – 1.0 mm
- Plastics 0.1 – 5.0 mm



Technical Data		
Drill Ø mm	Total length mm	Shaft Ø mm
3.0-14.0	58.0	6.0
4.0-20.0	71.0	8.0
16.0-30.5	76.0	9.0
24.0-40.0	89.0	10.0
36.0-50.0	97.0	12.0

Article No.	Article Description	QTY
5521 1	TUBE&SHEET TAP.DR.3-14MM S 6MM	1
5521 2	TUBE&SHEET TAP.DR.5-20MM S 8MM	1
5521 3	TUB.SHEE.TAP.DR.16-30.5MM S 9MM	1
5521 4	TUBE&SHEE.TAP.DR.24-40MM S10MM	1
5521 5	TUBE&SHEE.TAP.DR.36-50MM S12MM	1

(Ø drill mm, S = Ø shaft mm)

Tube & Sheet Taper Drill Set HSS

- 4-pcs in plastic drill box

Article No.	Article Description	QTY
5529 5521	TUBE&SHEET TAP.DRILL SET 4PCS	1

Contents:

- Each 1x taper drill HSS
- Ø 3 – 14 / 4 – 20 / 16 – 30.5 mm
- 1x Art. No. 5529 1: Drilling and Cutting Paste Stick 18 g



Cone cutter type HSS L

- For burr-free drilling and reaming of sheets, pipes and profiles
- With two blades and fixed centring tip with split point
- Shaft with 3 bevels prevents slipping in the chuck
- Point angle 118°

Application areas:

- Steel <900 N/mm² tensile strength, aluminium, brass, plastic, cast iron and bronze
- Constructional steel, soft, 0.1 – 2.0 mm
- Non-ferrous metals 0.1 – 1.0 mm
- Plastics 0.1 – 5.0 mm

Article No.	Article Description	QTY
5521 10	TUB.SHEE.TAP.DR.5-31MM L S10MM	1

(Ø drill mm, S = Ø shaft mm)



Drilling and Cutting Paste Stick

- Lubricant for tube and sheet, step drills and countersink
- Excellent separating and cooling properties
- For high-quality surface finish and longer service life

Application:

- Apply lubricant along the main cutting edge

Article No.	Article description	QTY
5529 1	DRILL.CUTTING PASTE STICK 18G	1



Stepped Drill HSS, MULTI-TT FORCH*****

- Stepped drill with edge-breaker feature for exact, burr-free drilling and reaming of sheets and profiles up to max. 6 mm material thickness
- ROTASTOP® shaft, cylindrical
- With spiral groove and fixed centring tip with split point
- 2-blade geometry
- Laser scaling
- Multi-TT coating (TiAlN/TiN Multilayer)
- Coating hardness: 3,100 HV
- Coating thickness: 2 µm
- Temperature resistance of coating: 650 °C
- Made in Germany



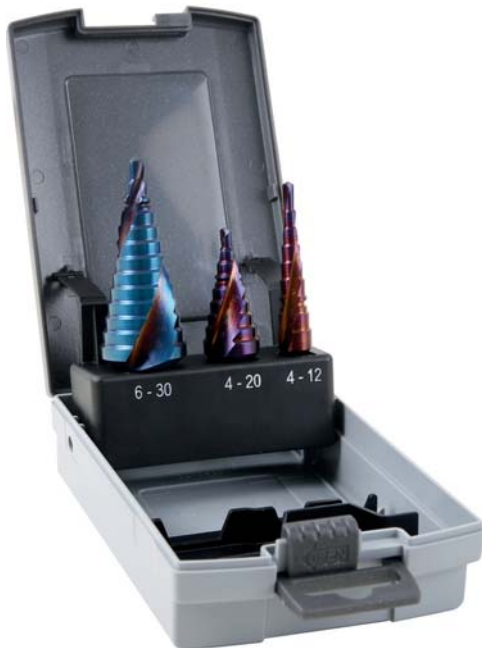
5522 5 10



5522 5 20



5522 5 24



5529 5 5522

Article No.	Article Description	QTY
5522 5 10	S.DR.MULTI-TT KB T1 4-12 S6 5*	1
5522 5 20	S.DR.MULTI-TT KB T2 4-20 S8 5*	1
5522 5 24	S.DR.MULTI-TT KB T2 6-30S10 5*	1
5529 5 5522	S.DR.MULTI-TT SET 3-PCE 5*	1

(Pitch / drill steps / S = Ø shaft mm)

Contents Art.-No. 5529 5 5522:

- Each 1x stepped drill HSS MULTI-TT Ø 4 – 12 / 4 – 20 / 6 – 30 mm

Your Advantage / Benefit

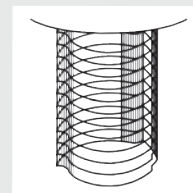
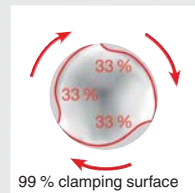
- 25 % longer service life
- MULTI-TT coating (TiAlN / TiN Multilayer), with good wear behaviour and thermal stability for a longer service life
- ROTASTOP® shaft for force-fit connection and optimal torque transmission, easy tool exchange, clamps automatically and prevents slipping in the drill chuck
- With spiral groove for optimal cutting behaviour with controlled chip removal, steady function with reduced energy consumption
- Centring tip with split point, no drill wandering, no centre punching and pre-drilling necessary
- Edge-breaker feature for simultaneous deburring on both sides
- Laser scaling with specified hole diameter for more precise function and specification of speed guide values

Application

- Exact, burr-free centring, drilling, deburring, and reaming of sheets and profiles up to max. 6 mm material thickness
- Steel, cast iron, non-ferrous metals, aluminium alloys with a rigidity of up to 1,000 N/mm², stainless steel with a rigidity of up to 800 N/mm²



ROTASTOP® shaft



Burr-free drilling



Technical Data				
Art.-No.	Steps Ø in mm	Length Total mm	Ø shaft mm	Steps height mm
5522 5 10	4.0/5.0/6.0/7.0/8.0/9.0/ 10.0/ 11.0/ 12.0	80.0	6.0	5.0
5522 5 20	4.0/6.0/8.0/10.0/12.0/14.0/ 16.0/ 18.0/ 20.0	67.0	8.0	4.0
5522 5 24	6.0/8.0/10.0/12.0/14.0/16.0/18.0/20.0/22.0/24.0/26.0/28.0/30.0	98.0	10.0	4.0

Step Drill HSS

- For precise and burr-free drilling and grinding of sheets, pipes and profiles up to max. 6 mm material strength
- With 2 edges and solid centring point
- Shank with three phases prevents inside spinning of the drill chuck

Art.-No. 5522 12 / 5522 13:

- Without centre point

Technical Data

Art.-No.	Grading Ø in mm
5522 11	4.0 / 5.0 / 6.0 / 7.0 / 8.0 / 9.0 / 10.0 / 11.0 / 12.0
5522 12	12.0 / 13.0 / 14.0 / 15.0 / 16.0 / 17.0 / 18.0 / 19.0 / 20.0
5522 13	20.0 / 21.0 / 22.0 / 23.0 / 24.0 / 25.0 / 26.0 / 27.0 / 28.0 / 29.0 / 30.0
5522 22	4.0 / 6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 18.0 / 20.0
5522 23	4.0 / 6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 18.0 / 20.0 / 22.0 / 24.0 / 26.0 / 28.0 / 30.0
5522 31	6.0 / 9.0 / 12.5 (PG7) / 15.2 (PG9) / 18.6 (PG11) / 20.4 (PG13.5) / 22.5 (PG16) / 26.0 / 28.3 (PG21) / 30.5 / 34.0 / 37.0 (PG29)



Article No.	Article Description	QTY
5522 11	STEP DRILL 1-P 4-12MM S 6MM	1
5522 12	STEP DRILL 1-P 12-20MM S 9MM	1
5522 13	STEP DRILL 1-P 20-30MM S 12MM	1
5522 22	STEP DRILL 2-PCS 4-20MM S 8MM	1
5522 23	STEP DRILL 2-PCS 4-30MM S 10MM	1
5522 31	STEP DRILL 3-PCS 9-36MM S 12MM	1

(Pitch / drill steps / S = Ø-shank mm)

Step Drill HSS for Metric Cable Screw Connections

- For the core hole and the clearance hole of metrical cable screw connections in accordance with DIN/EN 60423 and DIN/EN 50262
- With spiral groove and fixed centring tip with split point
- 2-blade geometry
- Laser scaling
- Shaft with 3 bevels prevents slipping in the chuck

Technical Data

Thread	5522 16 Ø thread core hole	5522 17 Ø through-hole
M6 × 0.75	5.3 mm	6.5 mm
M8 × 1.0	7.0 mm	8.5 mm
M10 × 1.0	9.0 mm	10.5 mm
M12 × 1.5	10.5 mm	12.5 mm
M16 × 1.5	14.5 mm	16.5 mm
M20 × 1.5	18.5 mm	20.5 mm
M25 × 1.5	23.5 mm	25.5 mm
-	27.0 mm	29.0 mm
M32 × 1.5	30.5 mm	32.5 mm
-	34.5 mm	38.5 mm
M40 × 1.5	38.5 mm	40.5 mm



Article No.	Article Description	QTY
5522 16	STEP DRILL HSS 5.3-38.5MM S10	1
5522 17	STEP DRILL HSS 6.5-40.5MM S10	1

(Drill steps / S = Ø shaft mm)

Step Drill HSS-TIAN with Edge Breaker

- With Titanium-Aluminium-Nitride-coating
- For exact and ridge-free drilling and attrition of sheets, pipes and profiles up to a material thickness of 6 mm, e.g. construction steel, CrNi-steel, NF-metals, plexiglass, plastic and stainless steel sheets up to 1.5 mm
- The de-ridging zone on the 10-mm-Ø level enables even and double-sided de-ridging (edge-breaker) up to a material thickness of 1.5 mm
- 2 deep-ground and spiral-shaped flutes ensure calmer drilling, high cutting performance, longer lifetime and better chip removal
- CBN ground drill bits with cross cut as per DIN 1412C enables thin-walled materials to be aligned and centered as well
- Step length: 4 mm, total length: 98 mm
- Drill-Ø in the flute signed by laser
- Drill levels - division : Ø 6 / 8 / 10 / 12 / 14 / 16 / 18 / 20 / 22 / 24 / 26 / 28 / 30 mm
- Special shaft Ø 10 mm with 3 phases prevents spinning in chuck



Article No.	Article Description	QTY
5522 24	STEP DRILL CB T.2 6-30MM S10MM	1

Step Drill HSS with Chip Breaker

- For precise and burr-free drilling and grinding of sheets, pipes and profiles up to max. 6 mm material strength
- Shank with three phases prevents spinning inside the drill chuck
- Deburring zone on 10 mm Ø step, simultaneous and double-sided deburring (chip breaking) of drilled and long holes in sheets with max. 1.5 mm strength



Article No.	Article Description	QTY
5522 10	STEP DRILL CB D.1 4-12MM S 6MM	1
5522 20	STEP DRILL CB D.2 4-20MM S 8MM	1

(Pitch / drill steps / S = Ø-shank mm)

Technical Data	
Art.-No.	Grading Ø in mm
5522 10	4.0 / 5.0 / 6.0 / 7.0 / 8.0 / 9.0 / 10.0 / 11.0 / 12.0
5522 20	4.0 / 6.0 / 8.0 / 10.0 / 12.0 / 14.0 / 16.0 / 18.0 / 20.0

Step Drill Set HSS

- 3 pieces in plastic drill box

Article No.	Article Description	QTY
5529 5522	STEP DRILL BOX 3-PIECES	1

Contents:

- Each 1x step drill HSS with chip breaker
Ø 4 – 12 / 4 – 20 / 6 – 30 mm



Counters.Bit 90° DIN 335C HSS, MULTI-TT **FÖRCH*******

- Taper and deburring countersink bit with three blades and optimised geometry for a longer service life and faster sinking
- Optimised chip removal geometry provided by combined axial/radial relief with larger relief angle
- Enlarged chip space
- 3-sided shaft, cylindrical
- Multi-TT coating (TiAlN/TiN Multilayer)
- Coating hardness: 3,100 HV
- Coating thickness: 2 µm
- Temperature resistance of coating: 650 °C
- Made in Germany



5525 5 63 / 83 / 104 / 165 / 205 / 250 / 310



5529 5 5525

Technical Data

Art.-No.	Ø	Length Total	Ø Shaft	Countersunk Screws
	mm	mm	mm	M
5525 5 63	6,3	45,0	5,0	3
5525 5 83	8,3	50,0	6,0	4
5525 5 165	16,5	60,0	10,0	8
5525 5 205	20,5	63,0	10,0	10
5525 5 250	25,0	67,0	10,0	12
5525 5 310	31,0	71,0	12,0	16

Article No.	Article Description	QTY
5525 5 63	CO.BIT MULTI-TT 90°335C 6,3 5*	1
5525 5 83	CO.BIT MULTI-TT 90°335C 8,3 5*	1
5525 5 165	CO.BIT MULTI-TT 90°335C16,5 5*	1
5525 5 205	CO.BIT MULTI-TT 90°335C20,5 5*	1
5525 5 250	CO.BIT MULTI-TT 90°335C25,0 5*	1
5525 5 310	CO.BIT MULTI-TT 90°335C31,0 5*	1
5529 5 5525	CO.BIT SET MULTI-TT 6TLG 5*	1

Contents Art.-No. 5529 5 5525:

- Each 1x countersink bit 90° DIN 335C HSS MULTI-TT Ø 6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5

Your Advantage / Benefit

- 25 % longer service life
- 30 % faster sinking
- MULTI-TT coating (TiAlN/TiN Multilayer), with good wear behaviour and thermal stability for a longer service life
- Optimised chip removal geometry provided by combined axial/radial relief with larger relief angle for faster, vibration-free, and scratch-free countersinking with low wear, no formation of built-up blades
- Enlarged chip space for improved chip removal, even for long-chipping materials
- 3-sided shaft for a force-fit connection and good torque transmission, prevents slipping in the drill chuck

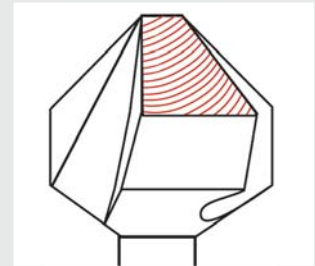
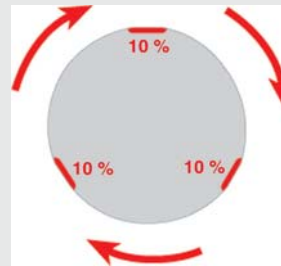
Application

- For burr- and vibration-free countersinking and deburring of steel, cast iron, non-ferrous metals, and aluminium alloys with a rigidity of up to 1,000 N/mm², stainless steel with a rigidity of up to 800 N/mm²



3-sided shaft

Combined axial/radial relief



Vibration-free countersinking



Countersink 90° DIN 335C HSS-E

- Alloyed with 5 % cobalt
- With 3 cutting edges and cylindrical shank
- For burr-free and chatter-free handling, deburring and countersinking of high-alloyed steels e.g. V2A and V4A as well as steels and cast with a strength up to 1,000 N/mm²



Article No.	Article Description	QTY
5527 63	COUNTERS.90°335C HSS-E-CO 6.3	1
5527 83	COUNTERS.90°335C HSS-E-CO 8.3	1
5527 104	COUNTERS.90°335C HSS-E-CO 10.4	1
5527 124	COUNTERS.90°335C HSS-E-CO 12.4	1
5527 165	COUNTERS.90°335C HSS-E-CO 16.5	1
5527 165 1	COUNTERS.90°335C 16.5 SHAFT10	1
5527 205	COUNTERS.90°335C HSS-E-CO 20.5	1
5527 250	COUNTERS.90°335C HSS-E-CO 25.0	1
5527 280	COUNTERS.90°335C HSS-E-CO 28.0	1
5527 310	COUNTERS.90°335C HSS-E-CO 31.0	1

Technical Data		
Ø mm	Countersunk screws M	Shank-Ø mm
6.3	3	5.0
8.3	4	6.0
10.4	5	6.0
12.4	6	8.0
16.5	8	8.0
16.5	8	10.0
20.5	10	10.0
25.0	12	10.0
28.0	14	12.0
31.0	16	12.0

Countersink Set 90° DIN 335C HSS-E

- 6-piece in drill box

Article No.	Article Description	QTY
5529 5527	COUNTERS.CASSET.HSS-E-CO 6-PCS	1

Contents:

- Each 1x countersink range 90° DIN 335C HSS-E
Ø 6.3/8.3/10.4/12.4/16.5/20.5 mm



Countersink 90° DIN 335C HSS-TIN

- Titanium-nitride-coating
- With 3 cutting edges und cylindrical shank
- For burr-free and chatter-free handling, deburring and countersinking of steel, cast, non-ferrous and light-metals with a strength up to 800 N/mm²



Article No.	Article Description	QTY
5525 63	COUNTERSINK 90' 335C TIN 6.3	1
5525 83	COUNTERSINK 90' 335C TIN 8.3	1
5525 104	COUNTERSINK 90' 335C TIN 10.4	1
5525 124	COUNTERSINK 90' 335C TIN 12.4	1
5525 165	COUNTERSINK 90' 335C TIN 16.5	1
5525 165 1	COUNTERS.90' TIN 16.5 SHAFT10	1
5525 205	COUNTERSINK 90' 335C TIN 20.5	1
5525 250	COUNTERSINK 90' 335C TIN 25.0	1
5525 280	COUNTERSINK 90' 335C TIN 28.0	1
5525 310	COUNTERSINK 90' 335C TIN 31.0	1

Technical Data		
Ø mm	Countersunk screw M	Shank-Ø mm
6.3	3	5.0
8.3	4	6.0
10.4	5	6.0
12.4	6	8.0
16.5	8	8.0
16.5	8	10.0
20.5	10	10.0
25.0	12	10.0
28.0	14	12.0
31.0	16	12.0

Countersink Set 90° DIN 335C HSS-TIN

- 6-piece in drill box

Article No.	Article Description	QTY
5529 5525	COUNTERS.CASSETTE TIN 6-PIECE	1

Contents:

- Each 1x countersink range 90° DIN 335C HSS-TIN Ø 6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5 mm



Countersink 90° DIN 335C HSS

- With 3 cutting edges and cylindrical shank
- For burr-free and chatter-free handling, deburring and countersinking of steel, cast, non-ferrous and light-metals with a strength of 600 N/mm²



Article No.	Article Description	QTY
5523 63	COUNTERSINK 90' 335C 6.3	1
5523 83	COUNTERSINK 90' 335C 8.3	1
5523 104	COUNTERSINK 90' 335C 10.4	1
5523 124	COUNTERSINK 90' 335C 12,4	1
5523 165	COUNTERSINK 90' 335C 16.5	1
5523 165 1	COUNTERS.90' 335C 16.5 SHAFT10	1
5523 205	COUNTERSINK 90' 335C 20.5	1
5523 250	COUNTERSINK 90' 335C 25.0	1
5523 280	COUNTERSINK 90' 335C 28.0	1
5523 310	COUNTERSINK 90' 335C 31.0	1

Technical Data		
Ø mm	Countersunk screws M	Shaft-Ø mm
6.3	3	5.0
8.3	4	6.0
10.4	5	6.0
12.4	6	8.0
16.5	8	8.0
16.5	8	10.0
20.5	10	10.0
25.0	12	10.0
28.0	14	12.0
31.0	16	12.0

Countersink Set 90° DIN 335C HSS

- 6-piece in drill box

Article No.	Article Description	QTY
5529 5523	COUNTERSINK CASSETTE 6-PIECE	1

Contents:

- Each 1x countersink bit 90° DIN 335C HSS
Ø 6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5 mm



Counter-sinking Bits 90° DIN 335C HSS

- With 1/4" hexagonal shaft
- Can be handled by machine (direct clamping or manual clamping with 1/4" bit holder) or manual with 1/4" handle
- For burr-free and rattle-free spotting, deburring and countersinking in steel, cast iron, non-ferrous metals and light alloys with a strength up to 600 N/mm²



Article No.	Article Description	QTY
5526 63	COUNTERSINK BIT 90° 335C 6.3	1
5526 83	COUNTERSINK BIT 90° 335C 8.3	1
5526 104	COUNTERSINK BIT 90° 335C 10.4	1
5526 124	COUNTERSINK BIT 90° 335C 12.4	1
5526 165	COUNTERSINK BIT 90° 335C 16.5	1
5526 205	COUNTERSINK BIT 90° 335C 20.5	1

Technical Data	
Ø mm	Countersink screws M
6.3	3
8.3	4
10.4	5
12.4	6
16.5	8
20.5	10

Countersink Bit Set 90° DIN 335C HSS

- 8-piece in drill box

Article No.	Article Description	QTY
5529 5526	COUNTERSINK BIT CASSETTE 8-PIECE	1
5529 1	DRILL CUTTING PASTE STICK 18G	1

Contents:

- Each 1x countersink bits 90° DIN 335C HSS Ø 6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5 mm
- 1x 1/4" handle
- 1x 1/4" universal holder
- 1x Art.-No. 5529 1 drilling and cutting paste stick 18 g



Countersink with Diagonal Hole 90° HSS-E

- Chip removal prevents jamming at the workpiece
- For burr-free and chatter-free handling, deburring and countersinking of steel e.g. V2A and V4A, as well as steels and cast with a strength of 1,000 N/mm²

Article No.	Article Description	QTY
5524 5	DIAG.HOLE COUNT.90° 2- 5MM S6	1
5524 10	DIAG.HOLE COUNT.90° 5-10MM S8	1
5524 15	DIAG.HOLE COUN.90° 10-15MM S10	1
5524 20	DIAG.HOLE COUN.90° 15-20MM S12	1
5524 25	DIAG.HOLE COUN.90° 20-25MM S12	1



(Countersink range mm / shank-Ø size)

Countersink with Diagonal Hole Set 90° HSS-E

- 4-piece in drill box

Article No.	Article Description	QTY
5529 5524	DIAG.HOLE COUNT.CASSETTE 4-PCS	1
5529 1	DRILL CUTTING PASTE STICK 18G	1

Contents:

- Each 1x countersink with diagonal hole 90° HSS-E sizes 5 / 10 / 15 / 20



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



Profigrat De-burring Set 7-Piece

Article No.	Article Description	QTY
4750 2 3	PROFIGRAT SET TELE.W.BLADE7PCS	1

Contents:

- 1x Art.-No. 4750 1 1: Profigrat handle type T
- 1x Art.-No. 4750 6 1: Profigrat telescope holder type C
- 1x Art.-No. 4750 3 10: Profigrat blades HSS type C-10
- 1x Art.-No. 4750 3 15: Profigrat blades HSS type C-15
- 1x Art.-No. 4750 3 20: Profigrat blades HSS type C-20
- 1x Art.-No. 4750 3 30: Profigrat blades HSS type C-30
- 1x Art.-No. 4750 3 35: Profigrat blades HSS type C-35

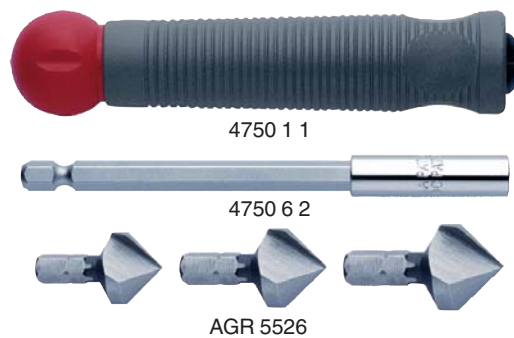


Profigrat De-burring Set 5-Piece

Article No.	Article Description	QTY
4750 2 4	PROFIGRAT SET TEL./COUNT.5-PCS	1

Contents:

- 1x Art.-No. 4750 1 1: Profigrat handle type T
- 1x Art.-No. 4750 6 2: Profigrat telescope holder hexagon for countersink
- Each 1x AGR 5526 countersink bits 90° DIN 335C HSS 6.3 / 10.4 / 16.5 mm



Profigrat De-burring Handle with Triangular Blades

Article No.	Article Description	QTY
4750 2 1	PROFI.DE-BUR.HANDLE TRIA.BLADE	1

Contents:

- 1x Art.-No. 4750 1 1: Profigrat handle type D
- 1x Art.-No. 4750 5 1: Profigrat blade HSS triangular



Profigrat Handle Aluminium

- Pack of 5 blades
- For the adaption of blades HSS type C (replaceable)



Article No.	Article Description	QTY
4750 2 5	PK(5)PROFIGRAT HAND.BLADE C10	1

Scope of delivery:

- Each 1x Art.-No. 4750 3 10: Profigrat blades HSS type C-10

Profigrat Blades HSS Type C

- C-blade is the well-known de-burring blade
- The design and diameter of 3.2 mm also enable integration into all other de-burring programmes
- Due to different blade forms different edge profiles can be processed



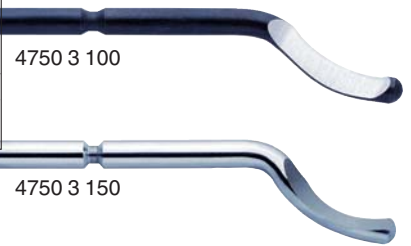
Technical Data					
Art. No.					Application
4750 3 10	•	•	•		steel, aluminium, copper, zinc, plastic
4750 3 15	•	•	•		stainless steel, plastic
4750 3 20	•	•	•		brass, cast
4750 3 30				•	steel, aluminium, copper, zinc, plastic, brass, cast
4750 3 35	•	•	•		steel, alu, copper, zinc, plastic, brass, cast, stainless steel
4750 3 101	•	•	•	•	steel, alu, copper, zinc, plastic, brass, cast, stainless steel

Article No.	Article Description	QTY
4750 3 10	PROFIGRAT BLADE HSS C- 10 Ø3.2	10
4750 3 15	PROFIGRAT BLADE HSS C- 15 Ø3.2	10
4750 3 20	PROFIGRAT BLADE HSS C- 20 Ø3.2	10
4750 3 30	PROFIGRAT BLADE HSS C- 30 Ø3.2	10
4750 3 35	PROFIGRAT BLADE HSS C- 35 Ø3.2	10
4750 3 101	PROFIGRAT BLADE HSS C-101 Ø3.2	10

Profigrat Blades HSS-E-CO Type C

- Especially suitable for deburring stainless steel

Technical Data					
Art. No.					Application
4750 3 100	•	•	•		steel, aluminium, copper, zinc, plastic, stainless steel
4750 3 150	•	•	•		steel, aluminium, copper, zinc, plastic, brass, cast, stainless steel



Article No.	Article Description	QTY
4750 3 100	PROF.BLADES HSS-E C-100 Ø3.2	10
4750 3 150	PROF.BLADES HSS-E C-150 Ø3.2	10

Profigrat Blades HSS-E-CO Type C

Technical Data					
Art.-No.					Application
4750 5 1			•	•	steel, aluminium, copper, zinc, plastic, brass, cast, stainless steel



Article No.	Article Description	QTY
4750 5 1	PROFI.TRIANG.BLADE F.HANDLE M8	1

Profigrat Handles

- Ergonomical handles for optimal usability
 - For attaching Profigrat telescope holder Art.-No. 4750 6 1 and 4750 6 2
 - Dimensions (Ø x L): 23 x 113 mm
- Art.-No. 4750 1 3:**
- For intake of Profigrat blades type C
 - Dimensions (Ø x L): 23 x 113 mm

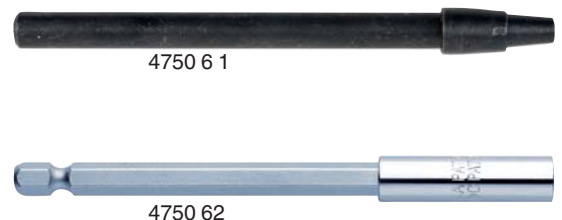
Article No.	Article Description	QTY
4750 1 1	PROFIGRAT HANDLE TYPE T	1
4750 1 3	PROFIGRAT HANDLE TYPE D	1



Profigrat Telescopic Holder

- For use with Profigrat handle Art.-No. 4750 1 1
- Art.-No. 4750 6 1:**
- For attaching Profigrat handles HSS type C with Ø 3.2 mm Art.-No. 4750 3 10 to 4750 3 101
 - Dimensions (Ø x L): 7 x 117 mm
- Art.-No. 4750 6 2:**
- For attaching of countersink bits 90° DIN 335C HSS with 1/4" shank AGR 5526
 - Dimensions (Ø x L): 6.3 x 115 mm

Article No.	Article Description	QTY
4750 6 1	PROFIGR. TEL HOLDER ROUND C-KL	e 5
4750 6 2	PROF.TEL.HOLDER HEX.F.COUNTERS	1



Machine tap **FÖRCH**
Application overview

Application	Tensile strength N/mm	Cutting speed v_C in m/min	Article-No.	Form	DIN	Tolerance class	Cutting material
Steel Structural steel, free-cutting steel, case hardening steel, unalloyed hardened and tempered steel, nitride steel, nodular cast iron	800 – 1,000 N/mm ²	10 – 20 m/min	5540 5... 3	B	371	ISO 2/6H	HSS-E steam coated
			5541 5... 3	B	376		
			5542 5... 3	C	371		
			5543 5... 3	C	376		
INOX Rust and acid-resistant steel	850 – 1,100 N/mm ²	6 – 12 m/min	5540 5... 4	B	371	ISO 2/6H	HSS-E TiN
			5541 5... 4	B	376		
			5542 5... 4	C	371		
			5543 5... 4	C	376		
Aluminium Aluminium, aluminium alloys, aluminium wrought alloys, aluminium-Si casting alloys	400 – 600 N/mm ²	15 – 20 m/min	5540 5... 1	B	371	ISO 2/6H	HSS-E blank
			5541 5... 1	B	376		
			5542 5... 1	C	371		
			5543 5... 1	C	376		
HF High quality steel, alloyed heat-treatable steel, tool steel, high-speed steel, tempered steel	1,000 – 1,200 N/mm ²	6 – 10 m/min	5542 5... 2	C	371	ISO 2/6H	HSS-E TiCN
			5543 5... 2	C	376		

Cutting data

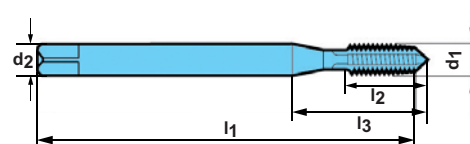
Designation	Short-sign	Unit	Formula
Number of revolutions	n	min ⁻¹	$n = \frac{v_C \times 1,000}{d \times \pi}$
Cutting speed	v_C	m/min	$v_C = \frac{d \times \pi \times n}{1,000}$

Taps ingate forms

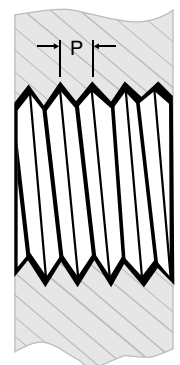
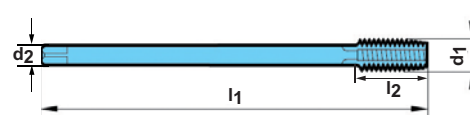
Form	Number of transitions in the gate	Gate angle	Execution of the flutes	Application mainly for	Pictograms
B	from 3.5 to 5	8°	grooved straight with peel gate	through holes	
C	from 2 to 3	15°	slotted	blind and pocket holes	

d1	P	l1	l2	l3	d2
M3	0.50 mm	56 mm	10 mm	18 mm	4 mm
M4	0.70 mm	63 mm	12 mm	21 mm	5 mm
M5	0.80 mm	70 mm	14 mm	25 mm	6 mm
M6	1.00 mm	80 mm	16 mm	30 mm	6 mm
M8	1.25 mm	90 mm	17 mm	35 mm	8 mm
M10	1.50 mm	100 mm	20 mm	39 mm	10 mm
M12	1.75 mm	110 mm	24 mm	–	9 mm
M16	2.00 mm	110 mm	26 mm	–	12 mm
M20	2.50 mm	140 mm	32 mm	–	16 mm
M24	3.00 mm	160 mm	36 mm	–	18 mm

DIN 371 M3 – M10



DIN 376 M12 – M24



Machine Tap DIN 371 HSS-E Form B, Steel **FÖRCH*******

- For the toughest demands on product life, precision and accuracy when working with steel
- For metric ISO regular thread according to DIN13
- Tolerance class ISO 2/6H
- 5% cobalt allot
- Vapour-plated
- With toughened shaft (DIN 371)
- For clearance holes
- With spiral point, straight grooved
- Right-handed cutting

Applications:

- Structural steel, free-cutting steel, case hardening steel, unalloyed hardened and tempered steel, nitride steel, nodular cast iron, tensile strength 800 – 1,000 N/mm²



Article No.	Article Description	QTY
5540 5 3 3	THR.HOLE MA.TAP STE.371B M3 5*	1 ü
5540 5 4 3	THR.HOLE MA.TAP STE.371B M4 5*	1 ü
5540 5 5 3	THR.HOLE MA.TAP STE.371B M5 5*	1 ü
5540 5 6 3	THR.HOLE MA.TAP STE.371B M6 5*	1 ü
5540 5 8 3	THR.HOLE MA.TAP STE.371B M8 5*	1 ü
5540 5 10 3	THR.HOLE MA.TAP ST.371B M10 5*	1 ü

Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft-Ø mm	Core hole-Ø mm
M3	0.5	10	56	3.5	2.5
M4	0.7	12	63	4.5	3.3
M5	0.8	14	70	6.0	4.2
M6	1.0	16	80	6.0	5.0
M8	1.25	17	90	8.0	6.8
M10	1.5	20	100	10.0	8.5

Machine Tap DIN 376 HSS-E Form B, Steel **FÖRCH*******

- For the toughest demands on product life, precision and accuracy when working with steel
- For metric ISO regular thread according to DIN13
- Tolerance class ISO 2/6H
- 5% cobalt alloy
- Vapour-plated
- With overload shaft (DIN 376)
- For clearance holes
- With spiral point, straight grooved
- Right-handed cutting

Applications:

- Structural steel, free-cutting steel, case hardening steel, unalloyed hardened and tempered steel, nitride steel, nodular cast iron, tensile strength 800 – 1,000 N/mm²



Article No.	Article Description	QTY
5541 5 12 3	THR.HOLE MA.TAP ST.376B M12 5*	1 ü
5541 5 16 3	THR.HOLE MA.TAP ST.376B M16 5*	1
5541 5 20 3	THR.HOLE MA.TAP ST.376B M20 5*	1
5541 5 24 3	THR.HOLE MA.TAP ST.376B M24 5*	1

Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M12	1.75	24	110	9.0	10.2
M16	2.0	26	110	12.0	14.0
M20	2.5	32	140	16.0	17.5
M24	3.0	36	160	18.0	21.0

Machine Tap Set HSS-E Form B, Steel **FÖRCH*******

- 14 pieces in drill box
- DIN 371 / 376

Article No.	Article Description	QTY
5549 5 5540 3	THR.HOL.M.TAP SET STE B 14P 5*	1

Contents:

- Each 1x machine screw tap form B, steel M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x twist drill DIN 338 HSS-E Steam, Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm



Machine Tap DIN 371 HSS-E Form C, Steel **FÖRCH*******

- For the toughest demands on product life, precision and accuracy when working with steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Vapour-plated
- With toughened shaft (DIN 371)
- For blind and pocket holes
- Short incision, 40° grooved to the right
- Right-handed cutting

Applications:

- Structural steel, free-cutting steel, case hardening steel, unalloyed hardened and tempered steel, nitride steel, nodular cast iron, tensile strength 800 – 1,000 N/mm²

Article No.	Article Description	QTY
5542 5 3 3	THR.HOLE MA.TAP STE 371C M3 5*	1 ü
5542 5 4 3	THR.HOLE MA.TAP STE 371C M4 5*	1 ü
5542 5 5 3	THR.HOLE MA.TAP STE 371C M5 5*	1 ü
5542 5 6 3	THR.HOLE MA.TAP STE 371C M6 5*	1 ü
5542 5 8 3	THR.HOLE MA.TAP STE 371C M8 5*	1 ü
5542 5 10 3	THR.HOL.MA.TAP STE 371C M10 5*	1 ü



Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M3	0.5	10	56	3.5	2.5
M4	0.7	12	63	4.5	3.3
M5	0.8	14	70	6.0	4.2
M6	1.0	16	80	6.0	5.0
M8	1.25	17	90	8.0	6.8
M10	1.5	20	100	10.0	8.5

Machine Tap DIN 376 HSS-E Form C, Steel **FÖRCH*******

- For the toughest demands on product life, precision and accuracy when working with steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Vapour-plated
- With overload shaft (DIN 376)
- For blind and pocket holes
- Short incision, 40° grooved to the right
- Right-handed cutting

Applications:

- Structural steel, free-cutting steel, case hardening steel, unalloyed hardened and tempered steel, nitride steel, nodular cast iron, tensile strength 800 – 1,000 N/mm²

Article No.	Article Description	QTY
5543 5 12 3	THR.HOLE MA.TAP ST.376C M12 5*	1 ü
5543 5 16 3	THR.HOLE MA.TAP ST.376C M16 5*	1
5543 5 20 3	THR.HOLE MA.TAP ST.376C M20 5*	1
5543 5 24 3	THR.HOLE MA.TAP ST.376C M24 5*	1



Technical Data					
Thread metric	Thread increase mm	Thread-length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M12	1.75	24	110	9.0	10.2
M16	2.0	26	110	12.0	14.0
M20	2.5	32	140	16.0	17.5
M24	3.0	36	160	18.0	21.0

Machine Tap Set HSS-E Form C, Steel **FÖRCH*******

- 14-piece in drill box
- DIN 371 / 376

Article No.	Article Description	QTY
5549 5 5542 3	THR.HOL.MA.TAP SET ST.C 14P 5*	1

Contents:

- Each 1x machine screw tap form C, steel M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x twist drill DIN 338 HSS-E Steam, Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm



Machine tap DIN371 HSS-E TiN form B,



- For the toughest demands on product life, precision and accuracy when working with stainless steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium nitride coating
- With toughened shaft (DIN 371)
- For clearance holes
- Spiral point, grooved straight
- Right-handed cutting

Applications:

- Rust and acid-resistant steel, tensile strength 850 – 1,100 N/mm²

Article No.	Article Description	QTY
5540 5 3 4	THR.HOLE MA.TAP IN.371B M3 5*	1 ü
5540 5 4 4	THR.HOLE MA.TAP IN.371B M4 5*	1 ü
5540 5 5 4	THR.HOLE MA.TAP IN.371B M5 5*	1 ü
5540 5 6 4	THR.HOLE MA.TAP IN.371B M6 5*	1 ü
5540 5 8 4	THR.HOLE MA.TAP IN.371B M8 5*	1 ü
5540 5 10 4	THR.HOLE MA.TAP IN.371B M10 5*	1 ü



Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M3	0.5	10	56	3.5	2.5
M4	0.7	12	63	4.5	3.3
M5	0.8	14	70	6.0	4.2
M6	1.0	16	80	6.0	5.0
M8	1.25	17	90	8.0	6.8
M10	1.5	20	100	10.0	8.5

Machine tap DIN376 HSS-E TiN form B,



- For the toughest demands on product life, precision and accuracy when working with stainless steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium nitride coating
- With overload shaft (DIN 376)
- For clearance holes
- Spiral point, grooved straight
- Right-handed cutting

Applications:

- Rust and acid-resistant steel, tensile strength 850 – 1,100 N/mm²

Article No.	Article Description	QTY
5541 5 12 4	THR.HOLE MA.TAP IN.376B M12 5*	1 ü
5541 5 16 4	THR.HOLE MA.TAP IN.376B M16 5*	1
5541 5 20 4	THR.HOLE MA.TAP IN.376B M20 5*	1



Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M12	1.75	24	110	9.0	10.2
M16	2.0	26	110	12.0	14.0
M20	2.5	32	140	16.0	17.5

Machine tap set HSS-E TiN form B, **Inox FÖRCH *******

- 14-piece in plastic case
- DIN 371 / 376

Article No.	Article Description	QTY
5549 5 5540 4	THR.HOLE MA.TAP SET IN. 14P 5*	1

Contents:

- Each 1x machine screw tap form B, Inox M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x twist drill DIN 338 HSS-E Steam, Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm



Machine tap DIN371 HSS-E TiN form C,

Inox FÖRCH*****

- For the toughest demands on product life, precision and accuracy when working with stainless steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium nitride coating
- With toughened shaft (DIN 371)
- For blind and pocket holes
- Short incision, 40° grooved to the right
- Right-handed cutting

Applications:

- Rust and acid-resistant steel, tensile strength 850 – 1,100 N/mm²

Article No.	Article Description	QTY
5542 5 3 4	THR.HOLE MA.TAP IN.371C M3 5*	1 ü
5542 5 4 4	THR.HOLE MA.TAP IN.371C M4 5*	1 ü
5542 5 5 4	THR.HOLE MA.TAP IN.371C M5 5*	1 ü
5542 5 6 4	THR.HOLE MA.TAP IN.371C M6 5*	1 ü
5542 5 8 4	THR.HOLE MA.TAP IN.371C M8 5*	1 ü
5542 5 10 4	THR.HOLE MA.TAP IN.371C M10 5*	1 ü



Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M3	0.5	10	56	3.5	2.5
M4	0.7	12	63	4.5	3.3
M5	0.8	14	70	6.0	4.2
M6	1.0	16	80	6.0	5.0
M8	1.25	17	90	8.0	6.8
M10	1.5	20	100	10.0	8.5

Machine tap DIN376 HSS-E TiN form C,

Inox FÖRCH*****

- For the toughest demands on product life, precision and accuracy when working with stainless steel
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium nitride coating
- With overload shaft (DIN 376)
- For blind and pocket holes
- Spiral point, 40° grooved to the right
- Right-handed cutting

Applications:

- Rust and acid-resistant steel, tensile strength 850 – 1,100 N/mm²

Article No.	Article Description	QTY
5543 5 12 4	THR.HOLE MA.TAP IN.376C M12 5*	1 ü
5543 5 16 4	THR.HOLE MA.TAP IN.376C M16 5*	1
5543 5 20 4	THR.HOLE MA.TAP IN.376C M20 5*	1



Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M12	1.75	24	110	9.0	10.2
M16	2.0	26	110	12.0	14.0
M20	2.5	32	140	16.0	17.5

Machine tap set HSS-E TiN form C, **Inox FÖRCH*******

- 14-piece in drill box
- DIN 371 / 376

Article No.	Article Description	QTY
5549 5 5542 4	THR.HOLE MA.TAP SET IN. 14P 5*	1

Contents:

- 1x machine screw tap form C, Inox M3 / M4 / M5 / M6 / M8 / M10 / M12
- 1x twist drill DIN 338 HSS-E Steam, Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm



Machine tap DIN 371 HSS-E form B, Alu FÖRCH*****

- For the toughest demands on product life, precision and accuracy when working with aluminium
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With toughened shaft (DIN 371)
- For clearance holes
- Spiral point, grooved straight
- Right-handed cutting

Applications:

- Aluminium and aluminium alloys, aluminium wrought alloys, aluminium-Si casting alloys, tensile strength 400 – 600 N/mm²



Article No.	Article Description	QTY
5540 5 3 1	THR.HOLE MA.TAP ALU 371B M3 5*	1 ü
5540 5 4 1	THR.HOLE MA.TAP ALU 371B M4 5*	1 ü
5540 5 5 1	THR.HOLE MA.TAP ALU 371B M5 5*	1 ü
5540 5 6 1	THR.HOLE MA.TAP ALU 371B M6 5*	1 ü
5540 5 8 1	THR.HOLE MA.TAP ALU 371B M8 5*	1 ü
5540 5 10 1	THR.HOLE MA.TAP AL.371B M10 5*	1 ü

Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M3	0.5	10	56	3.5	2.5
M4	0.7	12	63	4.5	3.3
M5	0.8	14	70	6.0	4.2
M6	1.0	16	80	6.0	5.0
M8	1.25	17	90	8.0	6.8
M10	1.5	20	100	10.0	8.5

Machine tap DIN 376 HSS-E form B, Alu FÖRCH*****

- For the toughest demands on product life, precision and accuracy when working with aluminium
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With overload shaft (DIN 376)
- For clearance holes
- Spiral point, grooved straight
- Right-handed cutting

Applications:

- Aluminium and aluminium alloys, aluminium wrought alloys, aluminium-Si casting alloys, tensile strength 400 – 600 N/mm²



Article No.	Article Description	QTY
5541 5 12 1	THR.HOLE MA.TAP AL.376B M12 5*	1 ü
5541 5 16 1	THR.HOLE MA.TAP AL.376B M16 5*	1

Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M12	1.75	24	110	9.0	10.2
M16	2.0	26	110	12.0	14.0

Machine tap DIN 371 HSS-E form C, Alu FÖRCH*****

- For the toughest demands on product life, precision and accuracy when working with aluminium
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With toughened shaft (DIN 371)
- For blind and pocket holes
- Short incision, 45° grooved to the right
- Right-handed cutting

Applications:

- Aluminium and aluminium alloys, aluminium wrought alloys, aluminium-Si casting alloys, tensile strength 400 – 600 N/mm²



Article No.	Article Description	QTY
5542 5 3 1	THR.HOLE MA.TAP ALU 371C M3 5*	1 ü
5542 5 4 1	THR.HOLE MA.TAP ALU 371C M4 5*	1 ü
5542 5 5 1	THR.HOLE MA.TAP ALU 371C M5 5*	1 ü
5542 5 6 1	THR.HOLE MA.TAP ALU 371C M6 5*	1 ü
5542 5 8 1	THR.HOLE MA.TAP ALU 371C M8 5*	1 ü
5542 5 10 1	THR.HOLE MA.TAP AL.371C M10 5*	1 ü

Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M3	0.5	10	56	3.5	2.5
M4	0.7	12	63	4.5	3.3
M5	0.8	14	70	6.0	4.2
M6	1.0	16	80	6.0	5.0
M8	1.25	17	90	8.0	6.8
M10	1.5	20	100	10.0	8.5

Machine tap DIN 376 HSS-E form C, Alu FÖRCH*****

- For the toughest demands on product life, precision and accuracy when working with aluminium
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With overload shaft (DIN 376)
- For blind and pocket holes
- Short incision, 45° grooved to the right
- Right-handed cutting

Applications:

- Aluminium and aluminium alloys, aluminium wrought alloys, aluminium-Si casting alloys, tensile strength 400 – 600 N/mm²



Article No.	Article Description	QTY
5543 5 12 1	THR.HOLE MA.TAP AL.376C M12 5*	1 ü
5543 5 16 1	THR.HOLE MA.TAP AL.376C M16 5*	1

Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M12	1.75	24	110	9.0	10.2
M16	2.0	26	110	12.0	14.0

Machine tap DIN 371 HSS-E TiCN form C,



- For the toughest demands on product life, precision and accuracy when working with steel that is difficult to cut
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium carbon nitride coating
- With toughened shaft (DIN 371)
- For blind and pocket holes
- Short incision, 40° grooved to the right
- Right-handed cutting

Applications:

- High quality steel, alloyed heat-treatable steel, tool steel, high-speed steel, tempered steel, tensile strength 1,000 – 1,200 N/mm²



Article No.	Article Description	QTY
5542 5 5 2	THR.HOLE MA.TAP HT 371C M5 5*	1 ü
5542 5 6 2	THR.HOLE MA.TAP HT 371C M6 5*	1 ü
5542 5 8 2	THR.HOLE MA.TAP HT 371C M8 5*	1 ü
5542 5 10 2	THR.HOLE MA.TAP HT 371C M10 5*	1 ü

Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M5	0.8	14	70	6.0	4.2
M6	1.0	16	80	6.0	5.0
M8	1.25	17	90	8.0	6.8
M10	1.5	20	100	10.0	8.5

Machine tap DIN 376 HSS-E TiCN form C,



- For the toughest demands on product life, precision and accuracy when working with steel that is difficult to cut
- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- Titanium carbon nitride coating
- With overload shaft (DIN 376)
- For blind and pocket holes
- Short incision, 40° grooved to the right
- Right-handed cutting

Applications:

- High quality steel, alloyed heat-treatable steel, tool steel, high-speed steel, tempered steel, tensile strength 1,000 – 1,200 N/mm²



Article No.	Article Description	QTY
5543 5 12 2	THR.HOLE MA.TAP HT 376C M12 5*	1 ü
5543 5 16 2	THR.HOLE MA.TAP HT 376C M16 5*	1

Technical Data					
Thread metric	Thread increase mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M12	1.75	24	110	9.0	10.2
M16	2.0	26	110	12.0	14.0

Spiral point machine tap DIN 371 HSS-E, form B

- For metric ISO-thread according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With reinforced shaft (DIN 371)
- For through holes
- Spiral Point, grooved straight

Applications:

- Steel and cast steel, alloyed and non-alloyed up to strength of 800 N/mm², free-cutting steel, malleable cast iron, speroidal iron, aluminium, brass long-chipping, copper, bronze, plastics etc.



Technical Data

Thread metric	Thread pitch mm	Thread length mm	Total length mm	Core hole Ø mm
M 3	0.5	10	56	2.5
M 4	0.7	12	63	3.3
M 5	0.8	14	70	4.2
M 6	1.0	16	80	5.0
M 8	1.25	18	90	6.8
M 9	1.25	25	92	6.8
M 10	1.5	20	100	8.5

Article No.	Article Description	QTY
5540 3	THR.HOLE MACHINE TAP 371B M 3	1 ü
5540 4	THR.HOLE MACHINE TAP 371B M 4	1 ü
5540 5	THR.HOLE MACHINE TAP 371B M 5	1 ü
5540 6	THR.HOLE MACHINE TAP 371B M 6	1 ü
5540 8	THR.HOLE MACHINE TAP 371M M 8	1 ü
5540 9	THR.HOLE MACHINE TAP 371B M 9	1
5540 10	THR.HOLE MACHINE TAP 371B M10	1 ü

Spiral point machine tap DIN 376 HSS-E, form B

- For metric ISO-thread according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With overrun shaft (DIN 371)
- For through holes
- Spiral Point, grooved straight

Applications:

- Steel and cast steel, alloyed and non-alloyed up to a strength of 800 N/mm², free-cutting steel, malleable cast iron, speroidal iron, aluminium, brass long-chipping, copper, bronze, plastics etc.



Technical Data

Thread metric	Thread pitch mm	Thread length mm	Total length mm	Core hole Ø mm
M 12	1.75	22	110	10.2
M 14	2.0	24	110	12.0
M 16	2.0	26	110	14.0
M 18	2.5	30	125	15.5
M 20	2.5	30	140	17.5
M 22	2.5	30	140	19.5
M 24	3.0	36	160	21.0

Article No.	Article Description	QTY
5541 12	THR.HOLE MACHINE TAP 376B M12	1 ü
5541 14	THR.HOLE MACHINE TAP 376B M14	1
5541 16	THR.HOLE MACHINE TAP 376B M16	1
5541 18	THR.HOLE MACHINE TAP 376B M18	1
5541 20	THR.HOLE MACHINE TAP 376B M20	1
5541 22	THR.HOLE MACHINE TAP 376B M22	1
5541 24	THR.HOLE MACHINE TAP 376B M24	1

Spiral point machine tap set DIN 371 HSS-E, form B

- 7-pcs in drill box

Article No.	Article Description	QTY
5549 5540	MACH.TAP THR.HOLES M3-12 7PCS	1

Contents:

- Each 1x machine tap DIN 371 / 376 HSS-E, form B M3 / M4 / M5 / M6 / M8 / M10 / M12



Spiral flute machine tap DIN 371 HSS-E, form C

- For metric ISO regular thread according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- With toughened shaft
- For blind and pocket holes
- Short incision, 35° grooved to the right

Applications:

- Steel and cast steel, alloyed and non-alloyed up to a strength of 800 N/mm², free-cutting steel, malleable cast iron, spheroidal iron, aluminium, brass long-chipping, copper, bronze, plastics etc.



Article No.	Article Description	QTY
5542 3	BASE HOLE TAP 371 C 35°M 3	1 ü
5542 4	BASE HOLE TAP 371 C 35°M 4	1 ü
5542 5	BASE HOLE TAP 371 C 35°M 5	1 ü
5542 6	BASE HOLE TAP 371 C 35°M 6	1 ü
5542 8	BASE HOLE TAP 371 C 35°M 8	1 ü
5542 10	BASE HOLE TAP 371 C 35°M10	1 ü

Technical Data				
Thread metric	Thread pitch mm	Length mm	Thread length mm	Core hole-Ø mm
M 3	0.5	56	10	2.5
M 4	0.7	63	12	3.3
M 5	0.8	70	14	4.2
M 6	1.0	80	16	5.0
M 8	1.25	90	18	6.8
M 10	1.5	100	20	8.5

Spiral flute machine tap DIN 376 HSS-E, form C

- For metric ISO regular thread according to DIN 13
- Tolerance ISO 2/6H
- 5 % cobalt alloy
- With overrun shaft (DIN 376)
- For base and blind holes
- With short incision, 35° grooved to the right

Applications:

- Steel and cast steel, alloyed and non-alloyed up to a strength of 800 N/mm², free-cutting steel, malleable cast iron, spheroidal iron, aluminium, brass long-chipping, copper, bronze, plastics etc.



Article No.	Article Description	QTY
5543 12	BASE HOLE TAP 376 C 35°M12	1 ü
5543 14	BASE HOLE TAP 376 C 35°M14	1
5543 16	BASE HOLE TAP 376 C 35°M16	1
5543 18	BASE HOLE TAP 376 C 35°M18	1
5543 20	BASE HOLE TAP 376 C 35°M20	1
5543 24	BASE HOLE TAP 376 C 35°M24	1

Technical Data					
Thread metric	Thread pitch mm	Thread length mm	Total length mm	Shaft Ø mm	Core hole Ø mm
M12	1.75	22	110	9	10.2
M14	2.0	24	110	11	12.0
M16	2.0	26	110	12	14.0
M18	2.5	30	125	14	15.5
M20	2.5	30	140	16	17.5
M24	3.0	36	160	18	21.0

Spiral flute machine tap set DIN 376 HSS-E, form C

- 7-pcs in drill box

Article No.	Article Description	QTY
5549 5542	MACH.TAP BASE HOLE M3-12 7PCS	1

Contents:

- Each 1x machine tap DIN 371 / 376 HSS-E, form C M3 / M4 / M5 / M6 / M8 / M10 / M12



Hand tap DIN 352 HSS, metric

- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- Sets consist of taper tap, second tap and final cutter

Applications:

- Strength of material up to 700 N/mm²
- AGR 5530: set 3-pcs
- AGR 5531: taper tap
- AGR 5532: second tap
- AGR 5533: final cutter



Article No.	Article Description	QTY
5530 2	HAND TAP SET 352 M 2	1
5530 3	HAND TAP SET 352 M 3	1
5530 4	HAND TAP SET 352 M 4	1
5530 5	HAND TAP SET 352 M 5	1
5530 6	HAND TAP SET 352 M 6	1
5530 7	HAND TAP SET 352 M 7	1
5530 8	HAND TAP SET 352 M 8	1
5530 10	HAND TAP SET 352 M 10	1
5530 12	HAND TAP SET 352 M 12	1
5530 14	HAND TAP SET 352 M 14	1
5530 16	HAND TAP SET 352 M 16	1
5530 18	HAND TAP SET 352 M 18	1
5530 20	HAND TAP SET 352 M 20	1
5530 22	HAND TAP SET 352 M 22	1
5530 24	HAND TAP SET 352 M 24	1
5531 3	HAND TAP TAPER 352 M 3	1
5531 4	HAND TAP TAPER 352 M 4	1 ü
5531 5	HAND TAP TAPER 352 M 5	1 ü
5531 6	HAND TAP TAPER 352 M 6	1 ü
5531 7	HAND TAP TAPER 352 M 7	e 5
5531 8	HAND TAP TAPER 352 M 8	1 ü
5531 10	HAND TAP TAPER 352 M 10	1 ü
5531 12	HAND TAP TAPER 352 M 12	1
5531 14	HAND TAP TAPER 352 M 14	1
5531 16	HAND TAP TAPER 352 M 16	1
5531 18	HAND TAP TAPER 352 M 18	1
5531 20	HAND TAP TAPER 352 M 20	1
5531 22	HAND TAP TAPER 352 M 22	1
5531 24	HAND TAP TAPER 352 M 24	1
5532 3	HAND TAP SECOND 352 M 3	1
5532 4	HAND TAP SECOND 352 M 4	1 ü
5532 5	HAND TAP SECOND 352 M 5	1 ü
5532 6	HAND TAP SECOND 352 M 6	1 ü
5532 7	HAND TAP SECOND 352 M 7	1
5532 8	HAND TAP SECOND 352 M 8	1 ü
5532 10	HAND TAP SECOND 352 M 10	1 ü
5532 12	HAND TAP SECOND 352 M 12	1
5532 14	HAND TAP SECOND 352 M 14	1 r

Technical Data				
Thread metric	Thread pitch mm	Thread length mm	Total length mm	Core hole Ø mm
M2	0.4	8	36	1.6
M3	0.5	11	40	2.5
M4	0.7	13	45	3.3
M5	0.8	16	50	4.2
M6	1.0	19	56	5.0
M7	1.0	19	56	6.0
M8	1.25	22	63	6.8
M10	1.5	24	70	8.5
M12	1.75	29	75	10.2
M14	2.0	30	80	12.0
M16	2.0	32	80	14.0
M18	2.5	40	95	15.5
M20	2.5	40	95	17.5
M22	2.5	40	100	19.5
M24	3.0	50	110	21.0

Article No.	Article Description	QTY
5532 16	HAND TAP SECOND 352 M16	1
5532 18	HAND TAP SECOND 352 M18	1
5532 20	HAND TAP SECOND 352 M20	1
5532 22	HAND TAP SECOND 352 M22	1
5532 24	HAND TAP SECOND 352 M24	1
5533 3	HAND TAP PLUG 352 M 3	1 ü
5533 4	HAND TAP PLUG 352 M 4	1 ü
5533 5	HAND TAP PLUG 352 M 5	1 ü
5533 6	HAND TAP PLUG 352 M 6	1 ü
5533 7	HAND TAP PLUG 352 M 7	1
5533 8	HAND TAP PLUG 352 M 8	1 ü
5533 10	HAND TAP PLUG 352 M 10	1 ü
5533 12	HAND TAP PLUG 352 M 12	1 ü
5533 14	HAND TAP PLUG 352 M 14	1 ü
5533 16	HAND TAP PLUG 352 M 16	1
5533 18	HAND TAP PLUG 352 M 18	1
5533 20	HAND TAP PLUG 352 M 20	1
5533 22	HAND TAP PLUG 352 M 22	1
5533 24	HAND TAP PLUG 352 M 24	1

Hand tap set DIN 352, 21-pcs

Art.-No. 5539 5530:

- 21-pcs drill box

Art.-No. 5539 5:

- 28-pcs in drill box

Article No.	Article Description	QTY
5539 5530	HAND TAP BOX M 3-12 21-PIECES	1
5539 5	HAND TAP BOX M 3-12 28-PIECES	1

Contents Art.-No. 5539 5530:

- Each 3x hand taps DIN 352 HSS, metric M3 / M4 / M5 / M6 / M8 / M10 / M12

Contents Art.-No. 5539 5:

- Each 3x hand taps DIN 352 HSS, metric M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x twist drill DIN 338 HSS, roll forged Ø 2.5 / 3.3 / 4.2 / 5 / 6.8 / 8.5 / 10.2 mm



Hand tap DIN 2181 HSS, fine thread

- For metric ISO regular threads according to DIN 13
- Tolerance class ISO 2/6H
- Sets consist of pre-cutters and final cutters

Applications:

- Material up to 800 N/mm² tensile strength
- AGR 5535: 2 piece set
- AGR 5536: pre-cutter
- AGR 5537: final cutter



Article No.	Article Description	QTY
5535 3 035	HAND TAP SET 2181 M 3X0.35	1
5535 4 05	HAND TAP SET 2181 M 4X0.5	1
5535 5 05	HAND TAP SET 2181 M 5X0.5	1
5535 6 075	HAND TAP SET 2181 M 6X0.75	1
5535 8 075	HAND TAP SET 2181 M 8X0.75	1
5535 8 1	HAND TAP SET 2181 M 8X1	1
5535 10 1	HAND TAP SET 2181 M 10X1	1
5535 10 125	HAND TAP SET 2181 M 10X1.25	1
5535 12 1	HAND TAP SET 2181 M 12X1	1
5535 12 125	HAND TAP SET 2181 M 12X1.25	1
5535 12 15	HAND TAP SET 2181 M 12X1.5	1
5535 14 125	HAND TAP SET 2181 M 14X1.25	1
5535 14 15	HAND TAP SET 2181 M 14X1.5	1
5535 16 15	HAND TAP SET 2181 M 16X1.5	1
5535 18 15	HAND TAP SET 2181 M 18X1.5	1
5535 20 15	HAND TAP SET 2181 M 20X1.5	1
5535 22 15	HAND TAP SET 2181 M 22X1.5	1
5535 24 15	HAND TAP SET 2181 M 24X1.5	1
5536 8 1	TAP TAPER 2181 M 8X1	1
5536 10 1	TAP TAPER 2181 M 10X1	1
5536 10 125	TAP TAPER 2181 M 10X1.25	1 ü
5536 12 1	TAP TAPER 2181 M 12X1	1 ü
5536 12 125	TAP TAPER 2181 M 12X1.25	1
5536 12 15	TAP TAPER 2181 M 12X1.5	1
5536 14 125	TAP TAPER 2181 M 14X1.25	1
5536 14 15	TAP TAPER 2181 M 14X1.5	1
5536 16 15	TAP TAPER 2181 M 16X1.5	1
5536 18 15	TAP TAPER 2181 M 18X1.5	1
5536 20 15	TAP TAPER 2181 M 20X1.5	1
5536 22 15	TAP TAPER 2181 M 22X1.5	1
5536 24 15	TAP TAPER 2181 M 24X1.5	1
5537 8 1	TAP PLUG 2181 M 8X1	1
5537 10 1	TAP PLUG 2181 M10X1	1 ü
5537 10 125	TAP PLUG 2181 M10X1.25	1
5537 12 1	TAP PLUG 2181 M12X1	1
5537 12 125	TAP PLUG 2181 M12X1.25	1 ü
5537 12 15	TAP PLUG 2181 M12X1.5	1 ü
5537 14 125	TAP PLUG 2181 M14X1.25	1
5537 14 15	TAP PLUG 2181 M14X1.5	1
5537 16 15	TAP PLUG 2181 M16X1.5	1
5537 18 15	TAP PLUG 2181 M18X1.5	1
5537 20 15	TAP PLUG 2181 M20X1.5	1
5537 22 15	TAP PLUG 2181 M22X1.5	1
5537 24 15	TAP PLUG 2181 M24X1.5	1

Technical Data				
Thread metric	Thread increase mm	Thread length mm	Total length mm	Core hole Ø mm
M3	0.35	9	40	2.7
M4	0.50	10	45	3.5
M5	0.50	12	50	4.5
M6	0.75	14	50	5.2
M8	0.75	19	50	7.2
M8	1.00	22	56	7.0
M10	1.00	20	63	9.0
M10	1.25	24	70	8.8
M12	1.00	22	70	11.0
M12	1.25	22	70	10.8
M12	1.50	22	70	10.5
M14	1.25	22	70	12.8
M14	1.50	22	70	12.5
M16	1.50	22	70	14.5
M18	1.50	22	80	16.5
M20	1.50	22	80	18.5
M22	1.50	22	80	20.5
M24	1.50	22	90	22.5

Hand tap DIN 352 HSS, UNC

- For American coarse threads UNC according to ANSI B 1.1
- Tolerance class 2B
- Sets consist of roughing tap, second tap and finishing tap

Applications:

- For materials with a tensile strength of up to 900 N/mm²



Article No.	Article Description	QTY
5558 14	HAND TAP SET UNC 1/4"	1
5558 516	HAND TAP SET UNC 5/16"	1
5558 38	HAND TAP SET UNC 3/8"	1
5558 716	HAND TAP SET UNC 7/16"	1
5558 12	HAND TAP SET UNC 1/2"	1

Technical Data					
Thread UNC	Thread pitches per inch	Thread length mm	Total length mm	Core hole Ø mm	Square mm
1/4"	20	19	50	5.4	4.9
5/16"	18	22	56	6.8	4.9
3/8"	16	24	70	8.3	5.5
7/16"	14	24	70	9.7	6.2
1/2"	13	29	75	11.2	7.0

Hand tap DIN 2181 HSS, UNF

- For American fine threads UNF according to ANSI B 1.1
- Tolerance class 2B
- Sets consist of roughing tap and finishing tap

Applications:

- For materials with a tensile strength of up to 900 N/mm²



Article No.	Article Description	QTY
5556 14	HAND TAP SET UNF 1/4"	1
5556 516	HAND TAP SET UNF 5/16"	1
5556 38	HAND TAP SET UNF 3/8"	1
5556 716	HAND TAP SET UNF 7/16"	1
5556 12	HAND TAP SET UNF 1/2"	1

Technical Data					
Thread UNF	Thread pitches per inch	Thread length mm	Total length mm	Core hole Ø mm	Square mm
1/4"	28	18	50	5.5	4.9
5/16"	24	22	56	6.9	4.9
3/8"	24	22	63	8.5	5.5
7/16"	20	22	63	9.9	6.2
1/2"	20	24	75	11.5	7.0

Hand tap DIN 5157 HSS, G(BSP)

- For British Whitworth pipe thread G(BSP) according to DIN ISO 228
- Sets consist of roughing tap and finishing tap

Applications:

- For materials with a tensile strength of up to 900 N/mm²



Article No.	Article Description	QTY
5578 18	HAND TAP SET G(BSP) 1/8"	1
5578 14	HAND TAP SET G(BSP) 1/4"	1
5578 38	HAND TAP SET G(BSP) 3/8"	1
5578 12	HAND TAP SET G(BSP) 1/2"	1
5578 34	HAND TAP SET G(BSP) 3/4"	1
5578 1	HAND TAP SET G(BSP) 1"	1

Technical Data					
Thread G(BSP)	Thread pitches pro Inch	Thread length mm	Thread length mm	Core hole Ø mm	Square mm
1/8"	28	22	63	8.8	5.5
1/4"	19	22	70	11.8	9.0
3/8"	19	22	70	15.3	9.0
1/2"	14	22	80	19.0	12.0
3/4"	14	22	90	24.5	14.5
1"	11	25	100	30.8	16.0

Single-cut tap DIN 352 HSS-E, DL

- For metric ISO-thread according to DIN 13
- Tolerance class ISO 2/6H
- 5 % cobalt alloy
- For through holes
- Short
- Grooved straightly
- Spiral point, ground
- Suitable for manual use as well as for hand drills, rechargeable and fixed machines

Applications:

- Materials up to a tensile strength of 900 N/mm²



Technical Data

Thread mm	Pitch mm	Shaft Ø mm	Drill hole Ø mm
M3	0.50	3.5	2.5
M4	0.70	4.5	3.3
M5	0.80	6.0	4.2
M6	1.00	6.0	5.0
M8	1.25	6.0	6.8
M10	1.50	7.0	8.5
M12	1.75	9.0	10.3
M14	2.00	11.0	12.0
M16	2.00	12.0	14.0
M18	2.50	14.0	15.5
M20	2.50	16.0	17.5

Article No.	Article Description	QTY
5534 3	DL-SINGLE-CUT TAP 352B M 3	e 5
5534 4	DL-SINGLE-CUT TAP 352B M 4	e 5
5534 5	DL-SINGLE-CUT TAP 352B M 5	e 5
5534 6	SL-SINGLE-CUT TAP 352B M 6	e 5
5534 8	DL-SINGLE CUT TAP 352B M 8	e 5
5534 10	DL-SINGLE-CUT TAP 352B M 10	e 5
5534 12	DL-SINGLE-CUT TAP 352B M 12	e 5
5534 14	DL-SINGLE-CUT TAP 352B M 14	1
5534 16	DL-SINGLE-CUT TAP 352B M 16	1
5534 18	DL-SINGLE-CUT TAP 352B M 18	1
5534 20	DL-SINGLE CUT TAP 352B M 20	1

Single-cut tap set DIN 352 HSS-E, DL

- 15-pcs in drill box

Article No.	Article Description	QTY
5539 5534	DL SINGLE-CUT TAP M3-12 15-PCS	1

Contents:

- Each 1x single-cut tap DIN 352 HSS-E, DL (through hole) M3 / M4 / M5 / M6 / M 8 / M10 / M12
- Each 1x twist drill DIN 338 HSS-E, ground Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm
- 1x adjustable tap wrench M1 – M12



Single-cut tap DIN 352 HSS-E, GL

- For metric ISO regular thread according to DIN 13
- Tolerance ISO 2/6H
- 5 % cobalt alloy
- For base and blind holes up to 2x nominal-Ø deep
- Short
- 15° spiral point
- Suitable for manual use as well as for hand drills, rechargeable and fixed machines



Technical Data

Thread metric	Thread pitch mm	Shaft Ø mm	Drill hole Ø mm
M3	0.50	3.5	2.5
M4	0.70	4.5	3.3
M5	0.80	6.0	4.2
M6	1.00	6.0	5.0
M8	1.25	6.0	6.8
M10	1.50	7.0	8.5
M12	1.75	9.0	10.3

Article No.	Article Description	QTY
5555 3	GL SINGLE-CUT TAP 352 M 3	e 5
5555 4	GL SINGLE-CUT TAP 352 M 4	e 5
5555 5	GL SINGLE-CUT TAP 352 M 5	e 5
5555 6	GL SINGLE-CUT TAP 352 M 6	e 5
5555 8	GL SINGLE-CUT TAP 352 M 8	e 5
5555 10	GL SINGLE-CUT TAP 352 M10	e 5
5555 12	GL SINGLE-CUT TAP 352 M12	e 5

Single-cut tap set DIN 352 HSS-E, GL

- 15-pcs in drill box

Article No.	Article Description	QTY
5539 5555	GL SINGLE-CUT TAP M3-12 15-PCS	1

Contents:

- Each 1x single-cut tap DIN 352 HSS-E, GL (base hole) M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x twist drill DIN 338 HSS-E, ground Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm
- 1x adjustable tap wrench M1 – M12



Combi tap & drill HSS

- Drilling, threading and deburring in one operation
- With 1/4" hexagonal shaft
- Ground
- For material strength up to 1x d (M6 = 6 mm strength)

Applications:

- Materials up to a tensile strength of 500 N/mm²



Article No.	Article Description	QTY
5545 3	COMBI TAP & DRILL M 3	1
5545 4	COMBI TAP & DRILL M 4	1
5545 5	COMBI TAP & DRILL M 5	1
5545 6	COMBI TAP & DRILL M 6	1 ü
5545 8	COMBI TAP & DRILL M 8	1
5545 10	COMBI TAP & DRILL M10	1

Technical Data		
Thread metric	Thread pitch mm	Total length mm
M3	0.50	36
M4	0.70	39
M5	0.80	41
M6	1.00	44
M8	1.25	50
M10	1.50	59

Combi tap & drill set HSS-G

- 7-pcs in drill box

Article No.	Article Description	QTY
5549 5545	C.TAP&DRILL TAP BOX M3-10 7PCS	1

Contents:

- Each 1x combi tap drill HSS M3 / M4 / M5 / M6 / M8 / M10
- 1x bit holder



Die DIN/EN 22568 HSS-E, form B

- 5 % cobalt alloy
- For metric ISO-thread according to DIN 13, tolerance class g6
- Closed, pre-slitted
- With long chamfer and spiral point for good chip removal
- Nitrated surfaces for higher service life

Applications:

- Materials up to a strength of 1,200 N/mm² such as stainless steel



Article No.	Article Description	QTY
5554 3	DIE 22568 M 3	1
5554 4	DIE 22568 M 4	1
5554 5	DIE 22568 M 5	1
5554 6	DIE 22568 M 6	1
5554 8	DIE 22568 M 8	1
5554 10	DIE 22568 M10	1
5554 12	DIE 22568 M12	1
5554 14	DIE 22568 M14	1
5554 16	DIE 22568 M16	1
5554 18	DIE 22568 M18	1
5554 20	DIE 22568 M20	1
5554 22	DIE 22568 M22	1
5554 24	DIE 22568 M24	1

Technical Data			
Thread metric	Thread pitch mm	Ø mm	Height mm
M3	0.50	20	5
M4	0.70	20	5
M5	0.80	20	7
M6	1.00	20	7
M8	1.25	25	9
M10	1.50	30	11
M12	1.75	38	14
M14	2.00	38	14
M16	2.00	45	18
M18	2.50	45	18
M20	2.50	45	18
M22	2.50	55	22
M24	3.00	55	22

Die DIN/EN 22568 HSS, form B

- For metric ISO regular thread according to DIN 13, tolerance g6
- Closed, pre-slitted
- With spiral point for good chip removal

Applications:

- Materials up to a strength of 700 N/mm²



Article No.	Article Description	QTY
5550 3	DIE 223 M 3	1
5550 4	DIE 223 M 4	1
5550 5	DIE 223 M 5	1
5550 6	DIE 223 M 6	1
5550 7	DIE 223 M 7	1
5550 8	DIE 223 M 8	1
5550 10	DIE 223 M10	1
5550 12	DIE 223 M12	1
5550 14	DIE 223 M14	1
5550 16	DIE 223 M16	1
5550 18	DIE 223 M18	1
5550 20	DIE 223 M20	1
5550 22	DIE 223 M22	1
5550 24	DIE 223 M24	1

Technical Data			
Thread metric	Thread pitch mm	Ø mm	Height mm
M 3	0.5	20	5
M 4	0.7	20	5
M 5	0.8	20	7
M 6	1.0	20	7
M 7	1.0	25	9
M 8	1.25	25	9
M 10	1.5	30	11
M 12	1.75	38	14
M 14	2.0	38	14
M 16	2.0	45	18
M 18	2.5	45	18
M 20	2.5	45	18
M 22	2.5	55	22
M 24	3.0	55	22

Die DIN/EN 22568 HSS, fine thread

- For metric ISO fine thread according to DIN 13, tolerance g6
- Closed, pre-slitted (form B)
- With spiral point for good chip removal

Applications:

- Materials up to a strength of 800 N/mm²



Article No.	Article Description	QTY
5551 3 035	DIE 223 FINE M 3X0.35	1
5551 4 05	DIE 223 FINE M 4X0.5	1
5551 5 05	DIE 223 FINE M 5X0.5	1
5551 6 075	DIE 223 FINE M 6X0.75	1
5551 8 075	DIE 223 FINE M 8X0.75	1
5551 8 1	DIE 223 FINE M 8X1	1
5551 10 1	DIE 223 FINE M 10X1	1
5551 10 125	DIE 223 FINE M 10X1.25	1
5551 12 1	DIE 223 FINE M 12X1	1
5551 12 125	DIE 223 FINE M 12X1.25	1
5551 12 15	DIE 223 FINE M 12X1.5	1
5551 14 125	DIE 223 FINE M 14X1.25	1
5551 14 15	DIE 223 FINE M 14X1.5	1
5551 16 15	DIE 223 FINE M 16X1.5	1
5551 18 15	DIE 223 FINE M 18X1.5	1
5551 20 15	DIE 223 FINE M 20X1.5	1
5551 22 15	DIE 223 FINE M 22X1.5	1
5551 24 15	DIE 223 FINE M 24X1.5	1

Technical Data			
Thread metric	Ø mm	Height mm	
M3 × 0.35	20	5	
M4 × 0.50	20	5	
M5 × 0.50	20	5	
M6 × 0.75	20	7	
M8 × 0.75	25	9	
M8 × 1.00	25	9	
M10 × 1.00	30	11	
M10 × 1.25	30	11	
M12 × 1.00	38	10	
M12 × 1.25	38	10	
M12 × 1.50	38	10	
M14 × 1.25	38	10	
M14 × 1.50	38	10	
M16 × 1.50	45	14	
M18 × 1.50	45	14	
M20 × 1.50	45	14	
M22 × 1.50	55	16	
M24 × 1.50	55	16	

Die DIN/EN 22568 HSS, UNC

- For US coarse thread UNC according to ANSI B 1.1
- Closed, pre-slitted (form B)
- With spiral point for good chip removal

Applications:

- Materials up to a tensile strength of 800 N/mm²



Article No.	Article Description	QTY
5559 14	DIE DIN223 UNC 1/4"	1
5559 516	DIE DIN223 UNC 5/16"	1
5559 38	DIE DIN223 UNC 3/8"	1
5559 716	DIE DIN223 UNC 7/16"	1
5559 12	DIE DIN223 UNC 1/2"	1

Technical Data			
Thread UNC	Thread per inch	Ø mm	Height mm
1/4"	20	20	7
5/16"	18	25	9
3/8"	16	30	11
7/16"	14	30	11
1/2"	13	38	14

Die DIN/EN 22568 HSS, UNF

- For US fine thread UNF according to ANSI B 1.1
- Closed, pre-slitted (form B)
- With spiral point for good chip removal

Applications:

- Materials up to a tensile strength of 800 N/mm²



Article No.	Article Description	QTY
5557 14	DIE DIN223 UNF 1/4"	1
5557 516	DIE DIN223 UNF 5/16"	1
5557 38	DIE DIN223 UNF 3/8"	1
5557 716	DIE DIN223 UNF 7/16"	1
5557 12	DIE DIN223 UNF 1/2"	1

Technical Data			
Thread UNF	Thread per inch	Ø mm	Height mm
1/4"	28	20	7
5/16"	24	25	9
3/8"	24	30	11
7/16"	20	30	11
1/2"	20	38	10

Die DIN/EN 24231 HSS, G(BSP)

- For British Whitworth pipe thread (BSP) according to DIN ISO 228
- Closed, pre-slitted (form B)
- With spiral point for good chip removal

Applications:

- Materials up to a tensile strength of 800 N/mm²



Article No.	Article Description	QTY
5579 18	DIE G (BSP) 1/8"	1
5579 14	DIE G (BSP) 1/4"	1
5579 38	DIE G (BSP) 3/8"	1
5579 12	DIE G (BSP) 1/2"	1
5579 34	DIE G (BSP) 3/4"	1
5579 1	DIE G (BSP) 1"	1

Technical Data			
Thread G(BSP)	Thread per inch	Ø mm	Height mm
1/8"	28	30	11
1/4"	19	38	10
3/8"	19	45	14
1/2"	14	55	16
3/4"	14	55	16
1"	11	65	18

Adjustable tap wrench DIN 1814

- For use with hand taps, with square



Article No.	Article Description	QTY
5560 0	TAP WRENCH 1814 SIZE 0	1
5560 1	TAP WRENCH 1814 SIZE 1	1
5560 1 12	TAP WRANCH 1814 SIZE 1 1/2	1
5560 2	TAP WRENCH 1814 SIZE 2	1
5560 3	TAP WRENCH 1814 SIZE 3	1
5560 4	TAP WRENCH 1814 SIZE 4	1
5560 5	TAP WRENCH 1814 SIZE 5	1
5560 5 1	TAP WRENCH 1814 SIZE 5 SHORT	1

Technical Data			
Size	Length mm	For square mm	For tap mm
0	125	2.1 – 4.9	M1 – 8
1	180	2.1 – 5.5	M1 – 10
1 1/2	180	2.1 – 7.0	M1 – 12
2	280	3.8 – 7.0	M4 – 12
3	375	4.9 – 12.0	M5 – 20
4	500	5.5 – 16.0	M9 – 27
5	750	7.0 – 20.0	M12 – 33
5	500	7.0 – 20.0	M13 – 32

Tap wrench with ratchet, short

- With clockwise and anti-clockwise turning

Article No.	Article Description	QTY
5562 1	TAP WRENCH W.RATCH.SHORT M3-10	1
5562 2	TAP WRENCH W.RATCH.SHORT M5-12	1



Technical Data		
For tap mm	Length mm	For square mm
M3 – 10	85	2.7 – 5.5
M5 – 12	110	4.9 – 7.0

Tap wrench with ratchet, long

- With clockwise and anti-clockwise turning

Article No.	Article Description	QTY
5562 10	TAP WRENCH W.RATCH.LONG M3-10	1
5562 20	TAP WRENCH W.RATCH.LONG M5-12	1



Technical Data		
For tap mm	Length mm	For square mm
M3 – 10	255	2.7 – 5.5
M5 – 12	310	4.9 – 7.0

Extension DIN 377

- For holding taps, with square

Article No.	Article Description	QTY
5561 27	EXTENSION 377 F. M 3 2.7	1
5561 34	EXTENSION 377 F. M 4-4.5 3.4	1
5561 49	EXTENSION 377 F. M 5-8 4.9	1
5561 55	EXTENSION 377 F. M 9-10 5.5	1
5561 70	EXTENSION 377 F. M 12 7.0	1
5561 90	EXTENSION 377 F. M 14-16 9.0	1
5561 110	EXTENSION 377 F. M 18 11.0	1
5561 120	EXTENSION 377 F. M 20 12.0	1
5561 145	EXTENSION 377 F. M 22-24 14.5	1



Technical Data		
For tap mm	Length mm	For square mm
M3	80	2.7
M4	95	3.4
M4.5 – 8	110	4.9
M9 – 10	115	5.5
M12	125	7.0
M14 – 16	130	9.0
M18	150	11.0
M20	155	12.0
M22 – 24	175	14.5

Die holder DIN 225

- For holding thread die DIN 223, form B

Article No.	Article Description	QTY
5563 20 5	DIE HOLDER 225 20X5	1
5563 20 7	DIE HOLDER 225 20X7	1
5563 25 9	DIE HOLDER 225 25X9	1
5563 30 11	DIE HOLDER 225 30X11	1
5563 38 10	DIE HOLDER 225 38X10	1
5563 38 14	DIE HOLDER 225 38X14	1
5563 45 14	DIE HOLDER 225 45X14	1
5563 45 18	DIE HOLDER 225 45X18	1
5563 55 16	DIE HOLDER 225 55X16	1
5563 55 22	DIE HOLDER 225 55X22	1
5563 65 18	DIE HOLDER 225 65X18	1



Technical Data			
Ø x H mm	Length mm	For standard metric thread	For metric fine thread
20 x 5	200	M3 – 4	M3 – 4
20 x 7	200	M5 – 6	M5 – 6
25 x 9	220	M7 – 9	M7 – 9
30 x 11	280	M10 – 11	M10 – 11
38 x 10	315		M12 – 14
38 x 14	315	M12 – 14	
45 x 14	450		M16 – 20
45 x 18	450	M16 – 20	
55 x 16	490		M22 – 24
55 x 22	490	M22 – 24	
65 x 18	630		M27 – 36

Tap & die set professional 45-pcs, metric

- For metric ISO regular thread according to DIN 13
- In high-quality metal box

Article No.	Article Description	QTY
5569 551	TAP & DIE SET 3-12 45-PIECES	1

Contents:

- Each 3x AGR 5530 hand tap DIN 352, metric M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x core hole twist drill Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm
- Each 1x AGR 5550 Die DIN / EN 22568 HSS, form B M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x tap wrench DIN 1814, adjustable size 1 / size 2
- Each 1x die holder DIN 225 20 x 5 / 20 x 7 / 25 x 9 / 30 x 11 / 38 x 14
- 1x thread gauge
- 1x screwdriver



Tap & die set professional 54-pcs, metric

- For metric ISO regular thread according to DIN 13
- In high-quality metal box

Article No.	Article Description	QTY
5569 552	TAP & DIE SET 3-20 54-PCS	1

Contents:

- Each 3x AGR 5530 hand tap DIN 352, metric M3 / M4 / M5 / M6 / M8 / M10 / M12 / M14 / M16 / M18 / M20
- Each 1x AGR 5550 Die DIN/EN 22568 HSS, form B M3 / M4 / M5 / M6 / M8 / M10 / M12 / M14 / M16 / M18 / M20
- Each 1x tap wrench DIN 1814, adjustable size 1 / size 3
- Each 1x die holder DIN 225 20 x 5 / 20 x 7 / 25 x 9 / 30 x 11 / 38 x 14 / 45 x 18
- 1x thread gauge
- 1x screwdriver



Tap & die set standard 43-pcs, metric

- For metric ISO regular thread according to DIN 13
- In plastic case

Article No.	Article Description	QTY
5569 553	TAP & DIE SET M3-M12 43-PIECES	1

Contents:

- Each 3x AGR 5530 hand tap DIN 352, metric M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x AGR 5550 die DIN / EN 22568 HSS, form B M3 / M4 / M5 / M6 / M8 / M10 / M12
- Each 1x tap wrench DIN 1814, adjustable size 1 / size 2
- Each 1x die holder DIN 225 20 x 5 / 20 x 7 / 25 x 9 / 30 x 11 / 38 x 14
- Each 1x core hole twist drill Ø 2.5 / 3.3 / 4.2 / 5.0 / 6.8 / 8.5 / 10.2 mm
- 1x thread gauge



Thread cutting set, 33-piece, fine thread

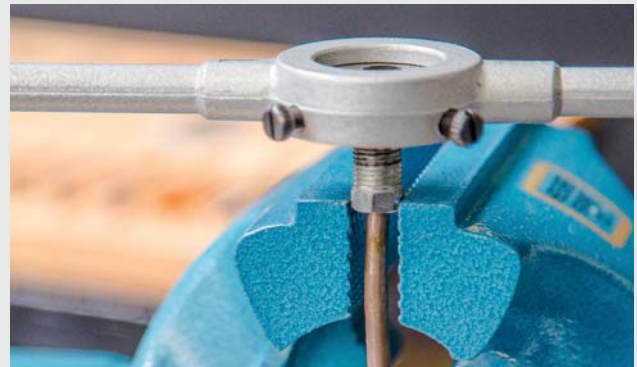
- For metric ISO fine thread according to DIN 13

Your Advantage / Benefit

- Standard dimensions M3 – M12 with roughing tap and finishing tap in high-quality metal box with wood inlay
- Better power transmission with identical tightening torque compared with standard threads
- Greater core diameter for high load capacity
- Self-loosening is reduced through a lower pitch angle
- Allows finer adjustment

Application

- For materials with a tensile strength of up to 800 N/mm²



Article No.	Article Description	QTY
5569 560	THR.CUTT.SET MF 3-12 33-PCE	1

Contents:

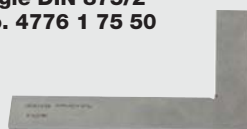
- Each 2x AGR 5535 hand tap DIN 2181, metric fine thread M3 x 0.35 / M4 x 0.5 / M5 x 0.5 / M6 x 0.75 / M8 x 1.0 / M10 x 1.0 / M12 x 1.5
- Each 1x AGR 5551 threading die DIN /EN 22568 HSS, shape B M3 x 0.35 / M4 x 0.5 / M5 x 0.5 / M6 x 0.75 / M8 x 1.0 / M10 x 1.0 / M12 x 1.5
- Each 1x tap wrench DIN 1814, adjustable size 1 / size 2
- Each 1x die stock DIN 225 20 x 5 / 25 x 9 / 30 x 11 / 38 x 10
- 1x tap wrench with ratchet M3 – 10
- 1x thread gauge Art.-No. 4965 20
- 1x screwdriver

Related Products

- **Thread Cutting Oil**
Art.-No. 6580 5851



- **Flat angle DIN 875/2**
Art.-No. 4776 1 75 50



- **Twist Drill DIN 338 HSS, Fully Ground**
Art.-No. 5509 5501 5
Ø 1.0 – 6.0 mm
Art.-No. 5509 5501 6
Ø 6.0 – 10.0 mm



Thread cutting set, 29-piece, UNC

- For American coarse threads UNC according to ANSI B 1.1
- In high-quality metal box with wood inlay

Article No.	Article Description	QTY
5569 580	THR.CUTT.SET UNC 1/4-1/2"29PCE	1

Contents:

- Each 3x AGR 5558 hand tap DIN 352, UNC
1/4" / 5/16" / 3/8" / 7/16" / 1/2"
- Each 1x AGR 5559 threading die DIN / EN 22568 HSS, shape B
1/4" / 5/16" / 3/8" / 7/16" / 1/2"
- Each 1x tap wrench DIN 1814, adjustable
size 1 / size 2
- Each 1x die stock DIN 225
20 x 7 / 25 x 9 / 30 x 11 / 38 x 14
- 1x tap wrench with ratchet M3 – 10
- 1x thread gauge Art.-No. 4965 20
- 1x screwdriver



Thread cutting set, 24-piece, UNF

- For American fine threads UNF according to ANSI B 1.1
- In high-quality metal box with wood inlay

Article No.	Article Description	QTY
5569 590	THR.CUTT.SET UNC 1/4-1/2"24PCE	1

Contents:

- Each 2x AGR 5556 hand tap DIN 2181, UNF
1/4" / 5/16" / 3/8" / 7/16" / 1/2"
- Each 1x AGR 5557 threading die DIN / EN 22568 HSS, shape B
1/4" / 5/16" / 3/8" / 7/16" / 1/2"
- Each 1x tap wrench DIN 1814, adjustable
size 1 / size 2
- Each 1x die stock DIN 225
20 x 7 / 25 x 9 / 30 x 11 / 38 x 10
- 1x tap wrench with ratchet M3 – 10
- 1x thread gauge Art.-No. 4965 20
- 1x screwdriver



Thread cutting set, 26-piece, G(BSP)

- For British pipe thread G(BSP) according to DIN ISO 228
- In high-quality metal box with wood inlay

Article No.	Article Description	QTY
5569 570	THR.CUTT.SET G(BSP)1/8-1"26PCE	1

Contents:

- Each 2x AGR 5578 hand tap DIN 5157, G(BSP)
1/8" / 1/4" / 3/8" / 1/2" / 3/4" / 1"
- Each 1x AGR 5579 threading die DIN / EN 24231 HSS, shape B
1/8" / 1/4" / 3/8" / 1/2" / 3/4" / 1"
- Each 1x tap wrench DIN 1814, adjustable
size 1 / size 3 / size 5 short
- Each 1x die stock DIN 225
30 x 11 / 38 x 10 / 45 x 14 / 55 x 16 / 65 x 18



Tap & die set with ratchet wrench

- In plastic case Art.-No. 4415 14 16 1
- With VAROsoft contoured lining (Art.-No. 9026 711)

Contents:

Art.-No.	Article Description	Quantity
4156 4	HEX-PLUS ALLEN WRENCH 4	1
4415 12 25 1	EMPTY CASE SIZE A+	1
4965 12	THREAD GAUGE METRIC	1
5534 3 1	SINGLE-CUT TAP M 3	1
5534 4 1	SINGLE-CUT TAP M 4	1
5534 5 1	SINGLE-CUT TAP M 5	1
5534 6 1	SINGLE-CUT TAP M 6	1
5534 8 1	SINGLE-CUT TAP M 8	1
5534 10 1	SINGLE-CUT TAP M 10	1
5534 12 1	SINGLE-CUT TAP M 12	1
5553 3 1	DIE NUT FOR SPANNER M 3	1
5553 4 1	DIE NUT FOR SPANNER M 4	1
5553 5 1	DIE NUT FOR SPANNER M 5	1
5553 6 1	DIE NUT FOR SPANNER M 6	1
5553 8 1	DIE NUT FOR SPANNER M 8	1
5553 10 1	DIE NUT FOR SPANNER M10	1
5553 12 1	DIE NUT FOR SPANNER M12	1
5562 125	TOOL HOLDER - HANDLE 125MM	1
5562 3881	TAP & DIE RATCHET 3881	1
5562 3882	TAP TOOL H.F.TAP&DIE WR.SMALL	1
5562 3883	TAP TOOL H.F.TAP&DIE WR.BIG	1
5562 3884	DIE NUT TOOL HOLD.F.TAP/DIE WR	1



Article No.	Article Description	QTY
5569 554	VS TAP&DIE SET.RATC.3-12 21PCS	1

Tap & die ratchet

Article No.	Article Description	QTY
5562 3881	TAP & DIE RATCHET 3881	1



Tool holder

Art.-No. 5562 3882:

- For tap M3 – M10

Art.-No. 5562 3883:

- For tap M12

Art.-No. 5562 3884:

- For die nut for wrench M3 – M12 (1" adaptor)

Article No.	Article Description	QTY
5562 3882	TAP TOOL H.F.TAP&DIE WR.SMALL	1
5562 3883	TAP TOOL H.F.TAP&DIE WR.BIG	1
5562 3884	DIE NUT TOOL HOLD.F.TAP/DIE WR	1



5562 3882 5562 3883 5562 3884

Tool holder - handle

- Length: 125 mm

Article No.	Article Description	QTY
5562 125	TOOL HOLDER - HANDLE 125MM	1



Die nut for spanner

Article No.	Article Description	QTY
5553 3 1	DIE NUT FOR SPANNER M 3	1
5553 4 1	DIE NUT FOR SPANNER M 4	1
5553 5 1	DIE NUT FOR SPANNER M 5	1
5553 6 1	DIE NUT FOR SPANNER M 6	1
5553 8 1	DIE NUT FOR SPANNER M 8	1
5553 10 1	DIE NUT FOR SPANNER M10	1
5553 12 1	DIE NUT FOR SPANNER M12	1



Single-cut tap

Article No.	Article Description	QTY
5534 3 1	SINGLE-CUT TAP M 3	1
5534 4 1	SINGLE-CUT TAP M 4	1
5534 5 1	SINGLE-CUT TAP M 5	1
5534 6 1	SINGLE-CUT TAP M 6	1
5534 8 1	SINGLE-CUT TAP M 8	1
5534 10 1	SINGLE-CUT TAP M 10	1
5534 12 1	SINGLE-CUT TAP M 12	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



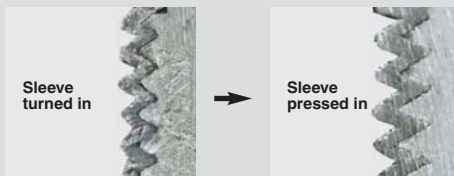
Step 2:
Use the Mebux fit milling cutter (D) to countersink the hole until the depth stop is resting on the workpiece.



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

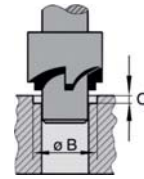
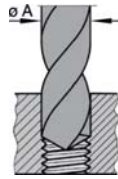
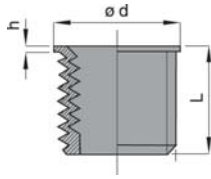


C =
Drill bit



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 × 0.7	MR	6.0	5.5	0.75	4.2	5.8	1.7
5572 4 07 80	M4 × 0.7	MR	8.0	5.5	0.75	4.2	5.8	1.7
5572 5 08 76	M5 × 0.8	MR	7.6	7.0	0.75	5.05	7.1	1.8
5572 5 08 100	M5 × 0.8	MR	10.0	7.0	0.75	5.05	7.1	1.8
5572 6 10 94	M6 × 1.0	MR	9.4	8.0	0.75	6.25	8.1	1.8
5572 6 10 120	M6 × 1.0	MR	12.0	8.0	0.75	6.25	8.1	1.8
5572 7 10 100	M7 × 1.0	MF	10.0	8.8	0.75	7.35	8.9	1.9
5572 7 10 140	M7 × 1.0	MF	14.0	8.8	0.75	7.35	8.9	1.9
5572 8 125 117	M8 × 1.25	MR	11.7	10.6	0.75	8.2	10.7	2.1
5572 8 125 162	M8 × 1.25	MR	16.2	10.6	0.75	8.2	10.7	2.1
5572 9 125 130	M9 × 1.25	MF	13.0	11.0	0.75	9.3	11.2	2.1
5572 9 125 180	M9 × 1.25	MF	18.0	11.0	0.75	9.3	11.2	2.1
5572 10 10 150	M10 × 1.0	MF	15.0	11.6	0.75	10.3	12.9	2.0
5572 10 125 150	M10 × 1.25	MF	15.0	12.6	0.75	10.3	12.9	2.2
5572 10 125 200	M10 × 1.25	MF	20.0	12.6	0.75	10.3	12.9	2.2
5572 10 15 140	M10 × 1.5	MR	14.0	12.6	0.75	10.3	12.9	2.2
5572 10 15 200	M10 × 1.5	MR	20.0	12.6	0.75	10.3	12.9	2.2
5572 11 125 220	M11 × 1.25	MF	22.0	13.5	0.75	11.5	14.1	2.6
5572 11 15 160	M11 × 1.5	MF	16.0	13.5	0.75	11.5	14.1	2.1
5572 11 15 220	M11 × 1.5	MF	22.0	13.5	0.75	11.5	14.1	2.1
5572 12 15 93	M12 × 1.5	MF	9.3	15.0	0.75	12.3	15.1	2.1
5572 12 15 163	M12 × 1.5	MF	16.3	15.0	0.75	12.3	15.1	2.1
5572 12 15 240	M12 × 1.5	MF	24.0	15.0	0.75	12.3	15.1	2.1
5572 12 175 162	M12 × 1.75	MR	16.2	15.0	0.75	12.7	15.4	2.8
5572 12 175 240	M12 × 1.75	MR	24.0	15.0	0.75	12.7	15.4	2.8
5572 14 15 65	M14 × 1.5	MF	6.5	17.0	0.75	14.7	17.1	2.8
5572 14 15 93	M14 × 1.5	MF	9.3	17.0	0.75	14.7	17.1	2.8
5572 14 15 128	M14 × 1.5	MF	12.8	17.0	0.75	14.7	17.1	2.8
5572 14 15 160	M14 × 1.5	MF	16.0	17.0	0.75	14.7	17.1	2.8
5572 14 15 260	M14 × 1.5	MF	26.0	17.0	0.75	14.7	17.1	2.8
5572 16 15 70	M16 × 1.5	MF	7.0	18.5	0.75	16.7	19.0	2.9
5572 16 15 127	M16 × 1.5	MF	12.7	18.5	0.75	16.7	19.0	2.9
5572 16 15 240	M16 × 1.5	MF	24.0	18.5	0.75	16.7	19.0	2.9
5572 16 20 240	M16 × 2.0	MR	24.0	19.2	0.75	16.7	20.0	2.9
5572 16 20 320	M16 × 2.0	MR	32.0	19.2	0.75	16.7	20.0	2.9
5572 18 15 100	M18 × 1.5	MF	10.0	20.5	0.75	18.3	21.3	3.5
5572 18 15 183	M18 × 1.5	MF	18.3	20.5	0.75	18.3	21.3	3.5
5572 18 15 270	M18 × 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, Inox

- Material: 1.4305 (X8CrNiS18-9), austenitic stainless chrome-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 × 1.0	MR	9.4	8.0	0.75	6.25	8.1	1.8
5572 6 10120 5	M6 × 1.0	MR	12.0	8.0	0.75	6.25	8.1	1.8
5572 8 125 117 5	M8 × 1.25	MR	11.7	10.6	0.75	8.2	10.7	2.1
5572 8 125 162 5	M8 × 1.25	MR	16.2	10.6	0.75	8.2	10.7	2.1
5572 10 15 140 5	M10 × 1.5	MR	14.0	12.6	0.75	10.3	12.9	2.2
5572 10 15 200 5	M10 × 1.5	MR	20.0	12.6	0.75	10.3	12.9	2.2

(MR = Metric Regulation Thread)

Mebux® Assortment 56-pce, zinc-coated

- 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	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 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

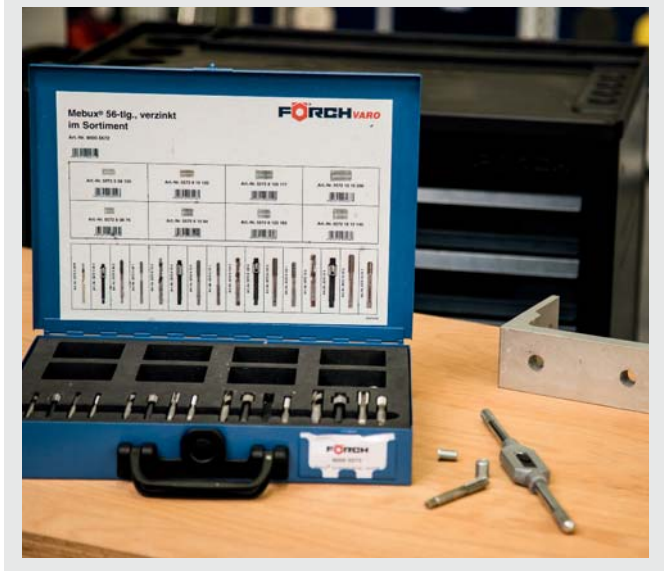
Article No.	Article Description	QTY
9000 5572	ASSORT.MEBUX STEEL GV 56-PIECE	1
9000R 5572	INLAY ASS.MEBUX STEEL GV 56PCE	1

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, zinc-coated

- Thin-walled, solid steel bushings, zinc-coated 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

Applications:

- 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 ZN M 4X0.7 14PCE	1
5549 5572 508	MEBUX SET ZN M 5X0.8 14PCE	1
5549 5572 610	MEBUX SET ZN M 6X1.0 14PCE	1
5549 5572 710	MEBUX SET ZN M 7X1.0 14PCE	1
5549 5572 8125	MEBUX SET ZN M 8X1.25 14PCE	1
5549 5572 9125	MEBUX SET ZN M 9X1.25 14PCE	1
5549 5572 1010	MEBUX SET ZN M 10X1.0 14PCE	1
5549 557210125	MEBUX SET ZN M 10X1.25 14PCE	1
5549 5572 1015	MEBUX SET ZN M 10X1.5 14PCE	1
5549 557211125	MEBUX SET ZN M 11X1.125 14PCE	1
5549 5572 1115	MEBUX SET ZN M 11X1.5 14PCE	1
5549 5572 1215	MEBUX SET ZN M 12X1.5 14PCE	1
5549 557212175	MEBUX SET ZN M 12X1.75 14PCE	1
5549 5572 1415	MEBUX SET ZN M 14X1.5 9PCE	1
5549 5572 1615	MEBUX SET ZN M 16X1.5 9PCE	1
5549 5572 1620	MEBUX SET ZN M 16X2.0 9PCE	1
5549 5572 1815	MEBUX SET ZN M 18X1.5 9PCE	1

Contents Art.-No. 5549 5572 407:

- Each 5x threaded bushing zinc-coated M4 x 0.7 each of lengths 6.0 and 8.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M4 x 0.7

Contents Art.-No. 5549 5572 508:

- Each 5x threaded bushing zinc-coated M5 x 0.8 each of lengths 7.6 and 10.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M5 x 0.8

Contents Art.-No. 5549 5572 610:

- Each 5x threaded bushing zinc-coated M6 x 1.0 each of lengths 9.4 and 12.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M6 x 1.0

Contents Art.-No. 5549 5572 710:

- Each 5x threaded bushing zinc-coated M7 x 1.0 each of lengths 10.0 and 14.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M7 x 1.0

Contents Art.-No. 5549 5572 8125:

- Each 5x threaded bushing zinc-coated M8 x 1.25 each of lengths 11.7 and 16.2 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M8 x 1.25

Contents Art.-No. 5549 5572 9125:

- Each 5x threaded bushing zinc-coated M9 x 1.25 each of lengths 13.0 and 18.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M9 x 1.25

Contents Art.-No. 5549 5572 1010:

- 10x threaded bushing zinc-coated M10 x 1.0 of length 15.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M10 x 1.0

Contents, Art.-No. 5549 557210125:

- Each 5x threaded bushing zinc-coated M10 x 1.25 each of lengths 15.0 and 20.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M10 x 1.25

Contents Art.-No. 5549 5572 1015:

- Each 5x threaded bushing zinc-coated M10 x 1.5 each of lengths 14.0 and 20.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M10 x 1.5

Contents, Art.-No. 5549 557211125:

- 10x threaded bushing zinc-coated M11 x 1.25 of length 22.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M11 x 1.25

Contents Art.-No. 5549 5572 1115:

- Each 5x threaded bushing zinc-coated M11 x 1.5 each of lengths 16.0 and 22.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M11 x 1.5

Contents Art.-No. 5549 5572 1215:

- Each 5x threaded bushing zinc-coated M12 x 1.5 each of lengths 16.3 and 24.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M12 x 1.5

Contents, Art.-No. 5549 557212175:

- Each 5x threaded bushing zinc-coated M12 x 1.75 each of lengths 16.2 and 24.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M12 x 1.75

Contents Art.-No. 5549 5572 1415:

- 5x threaded bushing zinc-coated M14 x 1.5 of length 16.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M14 x 1.5

Contents Art.-No. 5549 5572 1615:

- 5x threaded bushing zinc-coated M16 x 1.5 of length 24.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M16 x 1.5

Contents Art.-No. 5549 5572 1620:

- 5x threaded bushing zinc-coated M16 x 2.0 of length 32.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M16 x 2.0

Contents Art.-No. 5549 5572 1815:

- 5x threaded bushing zinc-coated M18 x 1.5 of length 27.0 mm
- Each 1x drill bit, seat burr, thread cutter and screw-in tool each for threaded bushing M18 x 1.5

Mebux® threaded bushing, zinc-coated



Article No.	Article Description	QTY
5572 4 07 60	PCK(5)THR.BUSH. M4X0.7X6.0 ZN	1
5572 4 07 80	PCK(5)THR.BUSH. M4X0.7X8.0 ZN	1
5572 5 08 76	PCK(5)THR.BUSH. M5X0.8X7.6 ZN	1
5572 5 08 100	PCK(5)THR.BUSH. M5X0.8X10.0 ZN	1
5572 6 10 94	PCK(5)THR.BUSH M6X1.0X9.4 ZN	1
5572 6 10 120	PCK(5)THR.BUSH M6X1.0X12.0 ZN	1
5572 7 10 100	PCK(5)THR.BUSH. M7X1.0X10.0 ZN	1
5572 7 10 140	PCK(5)THR.BUSH. M7X1.0X14.0 ZN	1
5572 8 125 117	PCK(5)THR.BU. M8X1.25X11.7 ZN	1
5572 8 125 162	PCK(5)THR.BU. M8X1.25X16.2 ZN	1
5572 9 125 130	PCK(5)THR.BU. M9X1.25.13.0 ZN	1
5572 9 125 180	PCK(5)THR.BU. M9X1.25X18.0 ZN	1
5572 10 10150	PCK(5)THR.BU. M10X1.0X15.0 ZN	1
5572 10 125 150	PCK(5)THR.BU. M10X1.25X15.0 ZN	1
5572 10 125 200	PCK(5)THR.BU. M10X1.25X20.0 ZN	1
5572 10 15 140	PCK(5)THR.BU.M10X1.5X14.0 ZN	1
5572 10 15 200	PCK(5)THR.BU.M10X1.5X20.0 ZN	1
5572 11 125 220	PCK(5)THR.BU. M11X1.25X22.0 ZN	1
5572 11 15 160	PCK(5)THR.BU. M11X1.5X16.0 ZN	1
5572 11 15 220	PCK(5)THR.BU. M11X1.5X22.0 ZN	1
5572 12 15 93	PCK(5)THR.BU. M12X1.5X9.3 ZN	1
5572 12 15 163	PCK(5)THR.BU. M12X1.5X16.3 ZN	1
5572 12 15 240	PCK(5)THR.BU. M12X1.5X24.0 ZN	1
5572 12 175 162	PCK(5)THR.BU. M12X1.75X16.2 ZN	1
5572 12 175 240	PCK(5)THR.BU. M12X1.75X24.0 ZN	1
5572 14 15 65	PCK(5)THR.BU. M14X1.5X6.5 ZN	1
5572 14 15 93	PCK(5)THR.BU. M14X1.5X9.3 ZN	1
5572 14 15 128	PCK(5)THR.BU. M14X1.5X12.8 ZN	1
5572 14 15 160	PCK(5)THR.BU. M14X1.5X16.0 ZN	1
5572 14 15 260	PCK(5)THR.BU. M14X1.5X26.0 ZN	1
5572 16 15 70	PCK(5)THR.BU. M16X1.5X7.0 ZN	1
5572 16 15 127	PCK(5)THR.BU. M16X1.5X12.7 ZN	1
5572 16 15 240	PCK(5)THR.BU. M16X1.5X24.0 ZN	1
5572 16 20 240	PCK(5)THR.BU. M16X2.0X24.0 ZN	1
5572 16 20 320	PCK(5)THR.BU. M16X2.0X32.0 ZN	1
5572 18 15 100	PCK(5)THR.BU. M18X1.5X10.0 ZN	1
5572 18 15 183	PCK(5)THR.BU. M18X1.5X18.3 ZN	1
5572 18 15 270	PCK(5)THR.BU. M18X1.5X27.0 ZN	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
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
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, Inox



- 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	A Insertion tool	B Tap cutter	C HSS drill bit	D Fit milling cutter
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
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
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

(MR = Metric Regulation Thread)
(A,B,C,D = corresponding individual tools)

Mebux® single tools

- Special tool, only for processing Mebux® threaded bushing AGR5572
Art.-No. 5572 10 3, 5572 10 4 and 5572 11 4:
- For use with several thread pitches



A = Insertion tool



B = Tap



C = Drill bit



D= Fit and shank

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

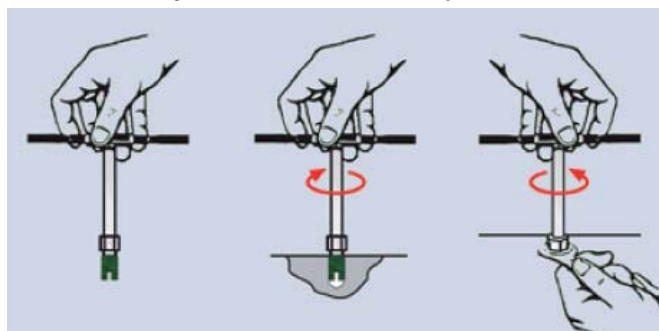
Article No.	Article Description	QTY
5572 11 125 1	INSERTION TOOL M11X1.25	1
5572 11 125 2	TAP M11X1.25	1
5572 11 125 3	DRILL BIT M11X1.25	1
5572 11 15 1	INSERTION TOOL M11X1.5	1
5572 11 15 2	TAP M11X1.5	1
5572 11 15 3	DRILL BIT M11X1.5	1
5572 11 4	SHANK MILL.CUTT.M11X1.25/1.5	1
5572 12 15 1	INSERTION 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

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/min² 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



Manual assembly with insertion tool and tap wrench:



Material:

- Case hardened steel, chrome-plated blue passivated

Applications;

- Car, industry, equipment and appliance construction etc.

Technical Data							
Art.-No.	Internal thread	Ø external-thread	Pitch external thread	length	min drilling hole depth with blind holes	min 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	1.0	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	5.0	7	Art.-No. 5571 4
5571 5 1	75 mm	8.0	13	Art.-No. 5571 5
5571 6 1	75 mm	8.0	13	Art.-No. 5571 6
5571 8 1	75 mm	8.0	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

Thread repair cutting bushings set

Art.-No. 5571 10 2 and 5571 12 2:

- 13 piece set in plastic case

Art.-No. 5571 6 2 and 5571 8 2:

- 23-piece set in plastic case

Article No.	Article Description	QTY
5571 6 2	THR.REP.CUTT.BUSH.SETM6 23PCE	1
5571 8 2	THR.REP.CUTT.BUSH.SETM8 23PCE	1
5571 10 2	THR.REP.CUTT.BUSH.SETM10 23PCE	1
5571 12 2	THR.REP.CUTT.BUSH.SETM12 23PCE	1

Contents:

Art.-No. 5571 6 2:

- 1x tap wrench Art.-No. 5560 3
- 1x drill Ø 9.2 mm Art.-No. 5507 92
- 1x hand-insertion tool Art.-No. 5571 6 1
- 20x thread repair cutting bushings Art.-No. 5571 6

Art.-No. 5571 8 2:

- 1x tap wrench Art.-No. 5560 3
- 1x drill Ø 11.2 mm Art.-No. 5507 112
- 1x hand-insertion tool Art.-No. 5571 8 1
- 20x thread repair cutting bushings Art.-No. 5571 8

Art.-No. 5571 10 2:

- 1x tap wrench Art.-No. 5560 4
- 1x drill Ø 13.2 mm Art.-No. 5507 132
- 1x hand-insertion tool Art.-No. 5571 10 1
- 10x thread repair cutting bushings Art.-No. 5571 10

Art.-No. 5571 12 2:

- 1x tap wrench Art.-No. 5560 4
- 1x drill Ø 15.2 mm Art.-No. 5507 152
- 1x hand-insertion tool Art.-No. 5571 12 1
- 10x thread repair cutting bushings Art.-No. 5571 12



Drill hole diameter (MM)		Indicative values			
Workpiece material	Light metal alloy, steel Rm = tensile strength (N/mm ²)	Rm > 250 N/mm ²			
		Rm < 300 N/mm ²			
		Rm < 350 N/mm ²			
		Rm > 350 N/mm ²			
	CuZn, bronze, NE	Rm > 350 N/mm ²			
Workpiece material	Cast iron HB = Brinell hardness	< 150 HB N/mm ²			
		< 200 HB N/mm ²			
		> 200 HB N/mm ²			
Internal thread	M4	5.9 mm	6 mm	6.1 mm	6.2 mm
	M5	7.2 mm	7.3 mm	7.5 mm	7.6 mm
	M6	8.8 mm	9.0 mm	9.2 mm	9.4 mm
	M8	10.8 mm	11.0 mm	11.2 mm	11.4 mm
	M10	12.8 mm	13.0 mm	13.2 mm	13.4 mm
	M12	14.8 mm	15.0 mm	15.2 mm	15.4 mm
	M14	16.8 mm	17.0 mm	17.2 mm	17.4 mm

Recommended drill hole diameter for easy assembly.
Lubrication may be necessary for the other diameters.

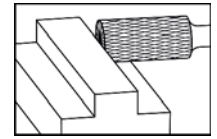
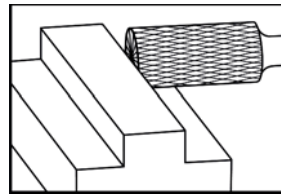
In case of machining problems (e.g. sharply increased screw-in torque), it is generally acceptable to choose the diameter specifications of the next largest column. In case of doubt, a test run is recommended.

Carbide coated burrs DIN 8032/8033, shape 1

- Cross tothing for high chipping performances at hard and soft materials, e. g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Creates a flat surface when running smoothly, thus less reworking
- They produce short, blunt chips which do not stick on clothes and are harmless for the skin
- For use with grinders
- Similar to DIN 8032 / 8033

Art.-No. 5975 1 16:

- Without face spline



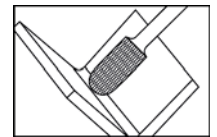
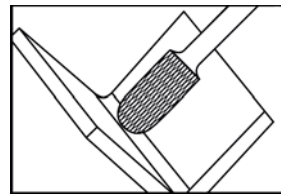
Article No.	Article Description	QTY
5975 1 3	CARBIDE COATED BURR FORM 1 D3	1 ü
5975 1 6	CARBIDE COATED BURR FORM 1 D6	1 ü
5975 1 10	CARBIDE COATED BURR FORM 1 D10	1 ü
5975 1 12	CARB.BURRS CT/ZYAS FO.1 D12	1 ü
5975 1 16	IT/CARB.CUTT.KZ/ZYA FORM1 D16	1

(CT = Cross tothing)

Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm
3.0	3.0	14.0	38.0	65,000 – 80,000
6.0	6.0	18.0	50.0	25,000 – 40,000
9.6	6.0	19.0	64.0	15,000 – 25,000
12.7	6.0	25.0	70.0	12,500 – 24,000
16.0	6.0	25.0	70.0	6,000 – 20,000

HD KV/WRC carbide rotary burrs, shape 2

- Radius end shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



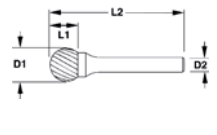
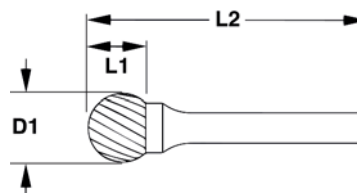
Article No.	Article Description	QTY
5975 2 3	CARB.BURRS HD CT/WRC FO.1 D3	1 ü
5975 2 6	CARB.BURR CT/WRC FORM 2 D6	1 ü
5975 2 10	CARB.COAT.BURR CT/WRC FO.2 D10	1 ü
5975 2 12	CARB.BURR CT/WRC FO.2 D12	1 ü

(CT= Cross-cut teeth)

Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm
3.0	3.0	14.0	38.0	65,000 – 80,000
6.0	6.0	18.0	50.0	25,000 – 40,000
9.6	6.0	19.0	64.0	15,000 – 25,000
12.7	6.0	25.0	70.0	12,500 – 24,000

HD KV/KUD carbide rotary burrs, shape 3

- Ball shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



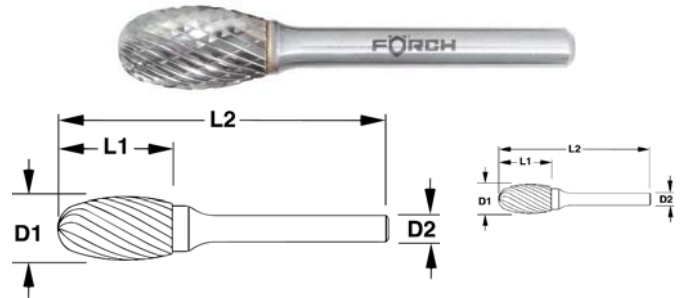
Article No.	Article Description	QTY
5975 3 3	CARB.BURR CT/KUD FO.3 D 3	1 ü
5975 3 6	CARB.BURR CT/KUD FO.3 D 6	1 ü
5975 3 10	CARB.BURR CT/KUD FO.3 D 10	1 ü
5975 3 12	CARB.BURR CT/KUD FO.3 D12	1 ü

(CT = Cross tothing)

Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm
3.0	3.0	12.5	38.0	65,000 – 80,000
6.0	6.0	4.7	50.0	25,000 – 40,000
9.6	6.0	8.0	54.0	15,000 – 25,000
12.7	6.0	11.0	56.0	12,500 – 24,000

HD KV/TRE carbide rotary burrs, shape 4

- Droplet-shaped
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



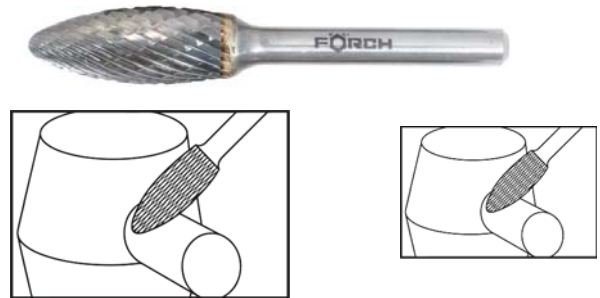
Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm
3.0	3.0	6.0	38.0	65,000 – 80,000
12.7	6.0	25.0	70.0	12,500 – 24,000

Article No.	Article Description	QTY
5975 4 3	CARB.BURR CT/TRE FO.4 D3	1 ü
5975 4 12	CARB.BURR CT/TRE FO.4 D 12	1 ü

(CT = Cross-cut teeth)

HD KV/FLA carbide rotary burrs, shape 5

- Flame-shaped
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



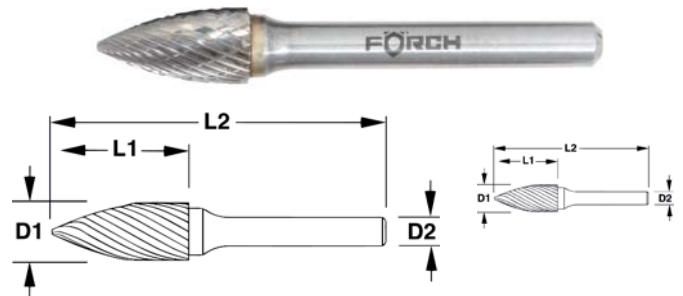
Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm
3.0	3.0	8.0	38.0	65,000 – 80,000
12.7	6.0	32.0	77.0	12,500 – 24,000

Article No.	Article Description	QTY
5975 5 3	CARB.BURR CT/FLA FO.5 D 3	1 ü
5975 5 12	CARB.BURR CT/FLA FO.5 D 12	1 ü

(CT = Cross-cut teeth)

HD KV/SPG carbide rotary burrs, shape 6

- Ogive shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics, etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



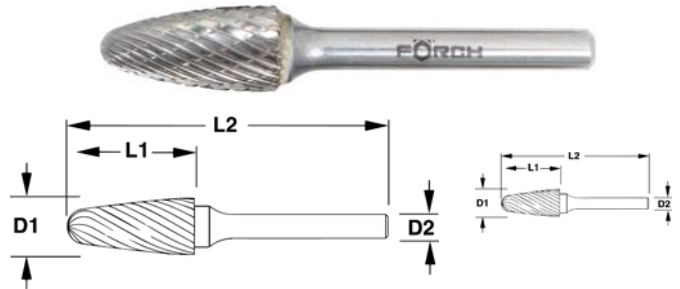
Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm
3.0	3.0	10.0	38.0	65,000 – 80,000
6.0	6.0	18.0	50.0	25,000 – 40,000
9.6	6.0	19.0	64.0	15,000 – 25,000
12.7	6.0	25.0	70.0	12,500 – 24,000

Article No.	Article Description	QTY
5975 6 3	CARB.BURR CT/SPG FO.6 D3	1 ü
5975 6 6	CARB.BURR CT/SPG FO.6 D6	1 ü
5975 6 10	CARB.BURR CT/SPG FO.6 D10	1 ü
5975 6 12	CARB.BURR CT/SPG FO.6 D12	1 ü

(CT = Cross-cut teeth)

HD KV/RBF carbide rotary burrs, shape 7

- Semi-circular arch shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



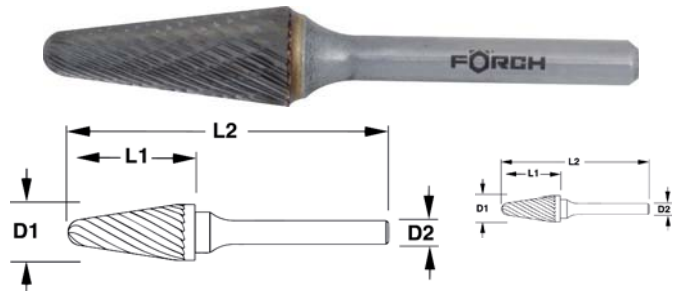
Technical Data					
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm	
3.0	3.0	14.0	38.0	65,000 – 80,000	
6.0	6.0	18.0	50.0	25,000 – 40,000	
9.6	6.0	19.0	64.0	15,000 – 25,000	
12.7	6.0	25.0	70.0	12,500 – 24,000	

Article No.	Article Description	QTY
5975 7 3	CARB.BURR CT/RBF FO.7 D 3	1 ü
5975 7 6	CARB.BURR CT/RBF FO.7 D 6	1 ü
5975 7 10	CARB.BURR CT/RBF FO.7 D 10	1 ü
5975 7 12	CARB.BURR CT/RBF FO.7 D 12	1 ü

(CT = Cross-cut teeth)

HD KV/KEL carbide rotary burrs, shape 8

- Rounded cone shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



Technical Data					
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm	
3.0	3.0	10.0	38.0	65,000 – 80,000	
9.6	6.0	30.0	76.0	15,000 – 25,000	
12.7	6.0	32.0	77.0	12,500 – 24,000	

Article No.	Article Description	QTY
5975 8 3	CARB.BURR CT/KEL FO.8 D 3	1 ü
5975 8 10	CARB.BURR CT/KEL FO.8 D 10	1 ü
5975 8 12	CARB.BURR CT/KEL FO.8 D 12	1 ü

(CT = Cross-cut teeth)

HD KV/SKM carbide rotary burrs, shape 9

- Pointed cone shape
- Cross-cut teeth for high cutting performance on hard and soft materials, e.g. stainless and high-strength steels, welding seams, grey cast iron, hard plastics etc.
- Runs quietly and creates smooth surfaces to minimise the amount of rework
- For use in die grinders
- Similar to DIN 8032 / 8033



Technical Data					
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm	
3.0	3.0	8.0	38.0	65,000 – 80,000	
9.6	6.0	16.0	64.0	15,000 – 25,000	
12.7	6.0	22.0	71.0	12,500 – 24,000	

Article No.	Article Description	QTY
5975 9 3	CARB.BURR CT/SKM FO.9 D 3	1 ü
5975 9 10	CARB.BURR CT/SKM FO.9 D 10	1 ü
5975 9 12	CARB.BURR CT/SKM FO.9 D 12	1 ü

(CT = Cross-cut teeth)

Carbide coated burr set 10-pcs

- In plastic case (Art.-No. 4415 14 16 11) with VAROsoft contured lining (Art.-No. 9026 816)

Contents:

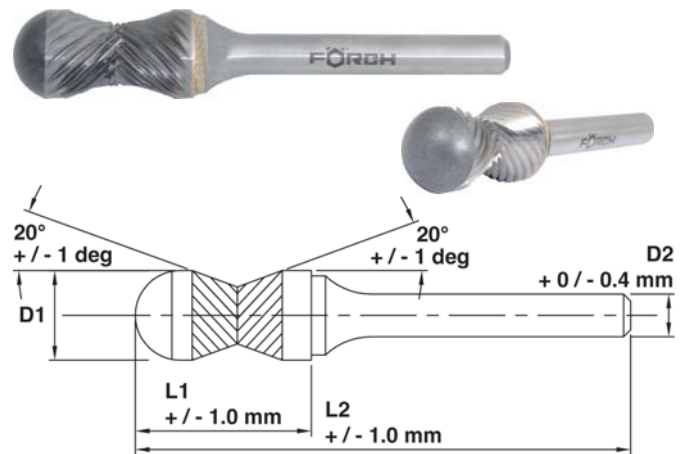
Article No.	Article Description	Quantity
4415 14 16 1	EMPTY CASE SIZE B	1
5975 1 6	CARBIDE COATED BURR FORM 1 D6	1
5975 1 10	CARBIDE COATED BURR FORM 1 D10	1
5975 2 6	CARB.BURR CT/WRC FORM 2 D6	1
5975 2 10	CARB.COAT.BURR CT/WRC FO.2 D10	1
5975 3 10	CARBIDE COATED BURR FORM 3 D10	1
5975 4 12	CARBIDE COATED BURR FORM 4 D12	1
5975 5 12	CARBIDE COATED BURR FORM 5 D12	1
5975 6 6	CARBIDE COATED BURR FORM 6 D6	1
5975 6 10	CARBIDE COATED BURR FORM 6 D10	1
5975 7 12	CARBIDE COATED BURR FORM 7 D12	1



Article No.	Article Description	QTY
5975 91	VS-CARBIDE COAT.BURR SET 10PCS	1

Cutter heavy metal radius

- Cutter to produce radius chamfer with hard and tough materials such as steel, stainless steel, cast iron, titanium, bronze, copper, brass etc.
- Patent pending
- Overlapping standard tothing in cutter centre with 20° angle
- Work is quick and easy due to unique guide geometry that centres the cutter in the work flow
- Innovative cutter shape enables a better cutting performance and product life
- Damage to the work piece's surface is prevented due to the smooth front side of the cutter
- For use in die grinders
- Similar to DIN 8032 / 8033



Article No.	Article Description	QTY
5975 10 12 3	RADIUS CUTTER ST FORM10 D12	1 ü

Technical Data				
D2	L1	L2	Angle	Recommended speeds rpm
mm	mm	mm		
6.0	25.0	70.0	20°	12,500 – 24,000

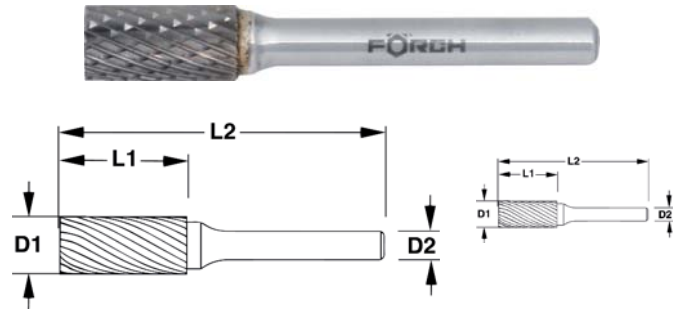
(ST = standard tothing)

Heavy metal cutters HD/ZYAS, form 1

- Cylindrical shape with face spline
- For tough demands with increased tooth wedge angle
- Particularly suitable for high cutting performance for cast iron, tool steel, stainless steel, hardened and unhardened steel
- High stability and impact resistance are achieved due to the increase tooth wedge angle
- Chipping, spalling and head breakage are minimised
- For use in die grinders
- Similar to DIN 8032 / 8033

Applications:

- Foundries, dockyards, steel construction, mould construction, heavy industry etc.



Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm
9.6	6.0	19.0	64.0	15,000 – 25,000

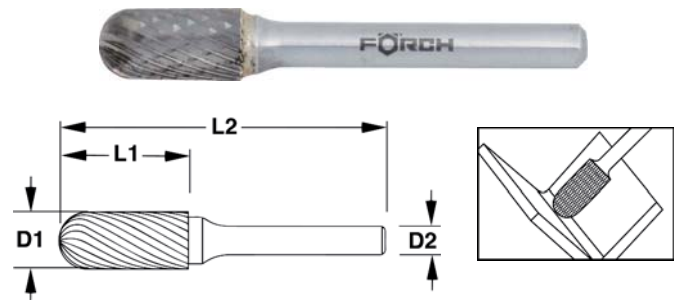
(HD CT = Heavy Duty Cross-cut teeth)

HD KV/WRC carbide rotary burrs, shape 2

- Radius end shape
- Heavy duty teeth for heavy use with increased tooth sharpening angle
- Especially well-suited for high-performance cutting of cast iron, tool steel, stainless steel, hardened and unhardened steels
- Increased tooth sharpening angle ensures high stability and impact-resistance
- Minimised tooth breakage, chipping and head breakage
- For use in die grinders
- Similar to DIN 8032 / 8033

Applications:

- Foundries, shipyards, steelworks, toolmaking, heavy industry etc.



Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm
9.6	6.0	19.0	64.0	15,000 – 25,000

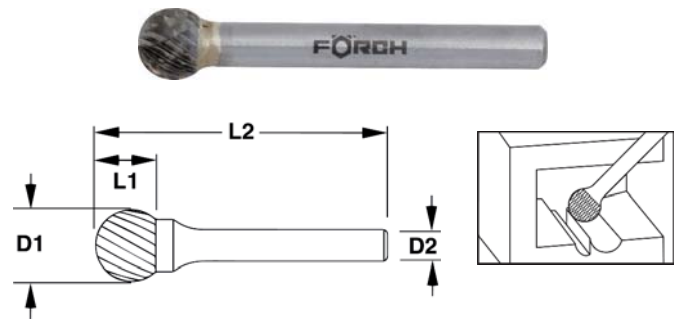
(HD CT= Heavy Duty Cross-cut Teeth)

HD KV/KUD carbide rotary burrs, shape 3

- Ball shape
- Heavy duty teeth for heavy use with increased tooth sharpening angle
- Especially well-suited for high-performance cutting of cast iron, tool steel, stainless steel, hardened and unhardened steels
- Increased tooth sharpening angle ensures high stability and impact-resistance
- Minimised tooth breakage, chipping and head breakage
- For use in die grinders
- Similar to DIN 8032 / 8033

Applications:

- Foundries, shipyards, steelworks, toolmaking, heavy industry etc.



Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm
9.6	6.0	8.0	54.0	15,000 – 25,000

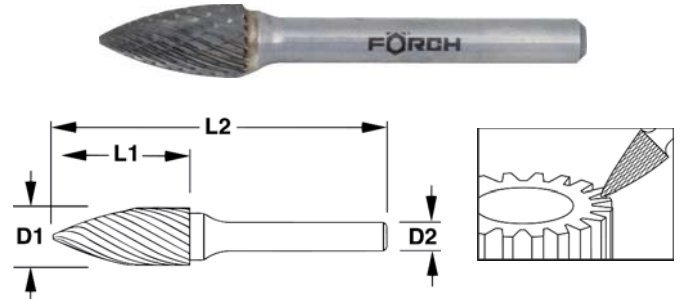
(HD CT = Heavy Duty Cross-cut Teeth)

HD KV/SPG carbide rotary burrs, shape 6

- Ogive shape
- Heavy duty teeth for heavy use with increased tooth sharpening angle
- Especially well-suited for high-performance cutting of cast iron, tool steel, stainless steel, hardened and unhardened steels
- Increased tooth sharpening angle ensures high stability and impact-resistance
- Minimised tooth breakage, chipping and head breakage
- For use in die grinders
- Similar to DIN 8032 / 8033

Applications:

- Foundries, shipyards, steelworks, toolmaking, heavy industry etc.



Technical Data					
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm	
9.6	6.0	19.0	64.0	25,000 – 40,000	

Article No.	Article Description	QTY
5975 6 10 2	CARB.BURR HD CT/SPG FO.6 D10	1 ü

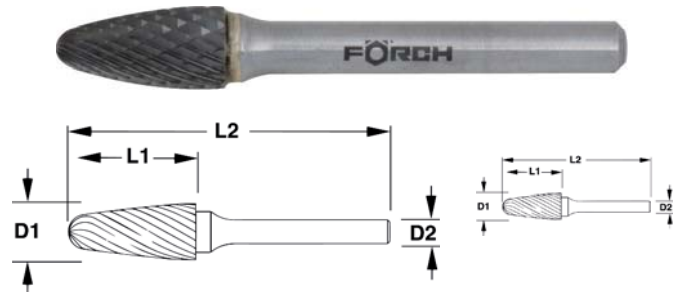
(HD CT = Heavy Duty Cross-cut Teeth)

HD KV/RBF carbide rotary burrs, shape 7

- Semi-circular arch shape
- Heavy duty teeth for heavy use with increased tooth sharpening angle
- Especially well-suited for high-performance cutting of cast iron, tool steel, stainless steel, hardened and unhardened steels
- Increased tooth sharpening angle ensures high stability and impact-resistance
- Minimised tooth breakage, chipping and head breakage
- For use in die grinders
- Similar to DIN 8032 / 8033

Applications:

- Foundries, shipyards, steelworks, toolmaking, heavy industry etc.



Technical Data					
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm	
9.6	6.0	19.0	64.0	25,000 – 40,000	

Article No.	Article Description	QTY
5975 7 10 2	CARB.BURR HD CT/RBF FO.7 D10	1 ü

(HD CT = Heavy Duty Cross-cut teeth)

6 piece heavy metal cutter set

- In plastic case Art.-No. 4415 14 16 1 with VARO soft system Art.-No. 9026 827

Contents:

Art.-No.	Art.-Description	Quantity
4415 14 16 1	EMPTY CASE SIZE B	1
5975 1 10 2	CARB.BURRS HD CT/ZYAS FO.1 D10	1
5975 2 10 2	CARB.BURR HD CT/WRC FO.2 D10	1
5975 3 10 2	CARB.BURR HD CT/KUD FO.3 D10	1
5975 6 10 2	CARB.BURR HD CT/SPG FO.6 D10	1
5975 7 10 2	CARB.BURR HD CT/RBF FO.7 D10	1
5975 10 12 3	RADIUS CUTTER ST FORM10 D12	1

Article No.	Article Description	QTY
5975 92	VS-CARBIDE COAT.BURR SET 6PCS	1

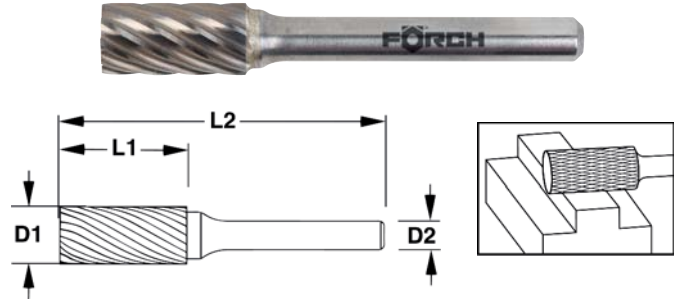


Inox ZYA carbide rotary burrs, shape 1

- Cylindrical shape without spur toothing
- Special toothing for increased removal rate when machining stainless steel
- No formation of built-up edges
- Reduced heat build-up on the milling edge and workpiece
- For use in die grinders
- Similar to DIN 8032

Applications:

- Container, carriage and vehicle construction, foundries, shipyards, steelwork, mould construction, heavy industry etc.



Technical Data					
D1 mm	D2 mm	L1 mm	L2 mm	Recom. speed rpm	
6.0	6.0	18.0	50.0	30,000 – 45,000	
9.6	6.0	19.0	64.0	19,000 – 30,000	

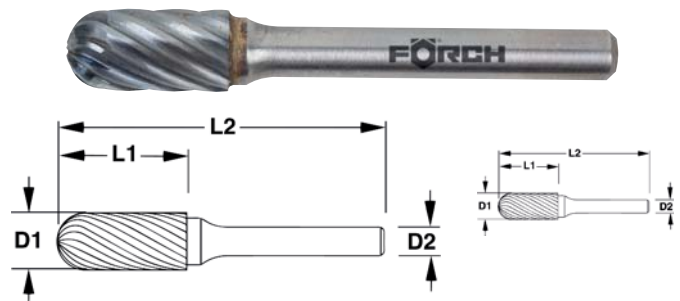
Article No.	Article Description	QTY
5975 1 6 4	INOX ZYA CARBR.T.BURRS FORM1D6	1 ü
5975 1 10 4	INOX ZYA CAR.T.BURRS FORM1 D10	1 ü

Inox WRC carbide rotary burrs, shape 2

- Radius end shape
- Special toothing for increased removal rate when machining stainless steel
- No formation of built-up edges
- Reduced heat build-up on the milling edge and workpiece
- For use in die grinders
- Similar to DIN 8032

Applications:

- Container, carriage and vehicle construction, foundries, shipyards, steelwork, mould construction, heavy industry etc.



Technical Data					
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm	
6.0	6.0	18.0	50.0	30,000 – 45,000	
9.6	6.0	19.0	64.0	19,000 – 30,000	

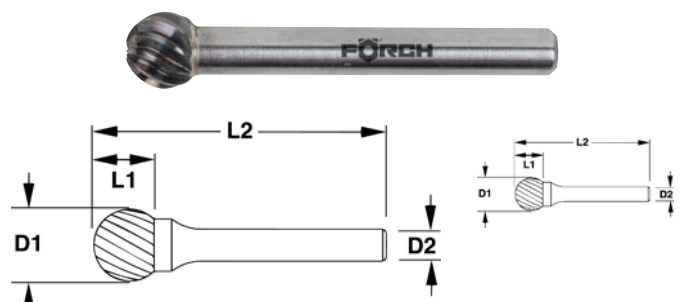
Article No.	Article Description	QTY
5975 2 6 4	INOX CRC BURRS FORM2 D6	1 ü
5975 2 10 4	INOX CRC BURRS FORM2 D10	1 ü

Inox KUD carbide rotary burrs, shape 3

- Ball shape
- Special toothing for increased removal rate when machining stainless steel
- No formation of built-up edges
- Reduced heat build-up on the milling edge and workpiece
- For use in die grinders
- Similar to DIN 8032

Applications:

- Container, carriage and vehicle construction, foundries, shipyards, steelwork, mould construction, heavy industry etc.



Technical Data					
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm	
9.6	6.0	8.0	54.0	19,000 – 30,000	

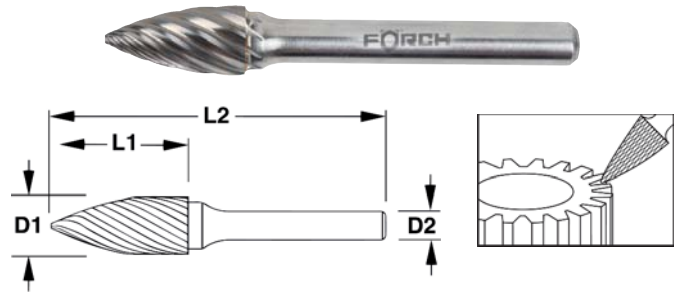
Article No.	Article Description	QTY
5975 3 10 4	INOX KUD BURRS FORM3 D10	1 ü

Inox SPG carbide rotary burrs, shape 6

- Ogive shape
- Special tothing for increased removal rate when machining stainless steel
- No formation of built-up edges
- Reduced heat build-up on the milling edge and workpiece
- For use in die grinders
- Similar to DIN 8032

Applications:

- Container, carriage and vehicle construction, foundries, shipyards, steelwork, mould construction, heavy industry etc.



Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recom. speed rpm
6.0	6.0	18.0	50.0	30,000 – 45,000
9.6	6.0	19.0	64.0	19,000 – 30,000

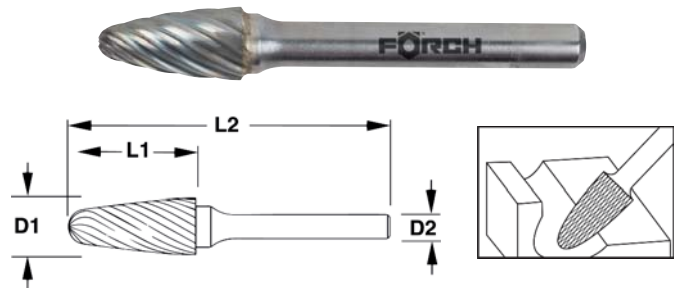
Article No.	Article Description	QTY
5975 6 6 4	INOX SPG BURRS FORM6 D6	1 ü
5975 6 10 4	INOX SPG BURRS FORM6 D10	1 ü

Inox RBF carbide rotary burrs, shape 7

- Semi-circular arch shape
- Special tothing for increased removal rate when machining stainless steel
- No formation of built-up edges
- Reduced heat build-up on the milling edge and workpiece
- For use in die grinders
- Similar to DIN 8032

Applications:

- Container, carriage and vehicle construction, foundries, shipyards, steelwork, mould construction, heavy industry etc.



Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Recommended speeds rpm
9.6	6.0	19.0	64.0	19,000 – 30,000
12.7	6.0	25.0	70.0	15,000 – 22,000

Article No.	Article Description	QTY
5975 7 10 4	INOX RBF BURRS FORM7 D10	1 ü
5975 7 12 4	INOX RBF BURRS FORM7 D12	1 ü

Carbide burr set, Inox tothing, 6-pc.

- In plastic case Art.-No. 4415 14 16 1 with VARO soft system Art.-No. 9026 827

Contents:

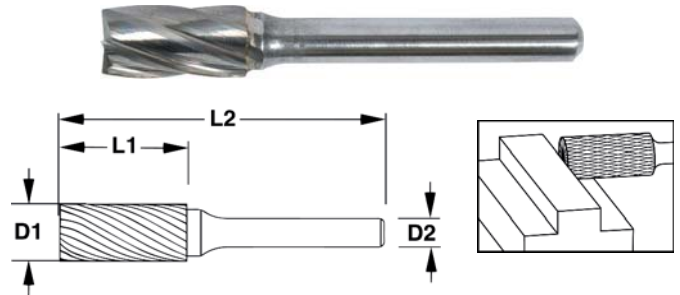
Art.-No..	Art.-Description	Quantity
4415 14 16 1	EMPTY CASE SIZE B	1
5975 1 10 4	INOX ZYA CAR.T.BURRS FORM1 D10	1
5975 2 10 4	INOX CRC BURRS FORM2 D10	1
5975 3 10 4	INOX KUD BURRS FORM3 D10	1
5975 6 10 4	INOX SPG BURRS FORM6 D10	1
5975 7 10 4	INOX RBF BURRS FORM7 D10	1
5975 10 12 3	RADIUS CUTTER ST FORM10 D12	1

Article No.	Article Description	QTY
5975 94	CARB.BURR SET,INOX TOOTH.6PCE	1



Carbide coated burrs alu tootinging DIN 8032/8033

- Cylindrical shape with face spline
- Coarse tootinging for the cutting of high material removal
- Ideally suited for the use on aluminium and aluminium alloy, light-metal, all non-ferrous metals and plastics
- Impact-free working and a smooth surface due to optimized concentricity
- For the use with grinders
- Similar to DIN 8032 / 8033

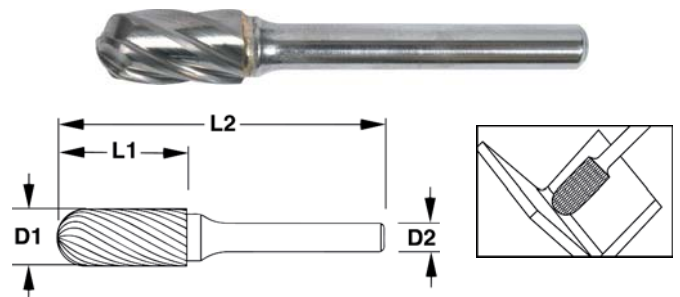


Article No.	Article Description	QTY
5975 1 10 1	CARB.BURRS ALU ZYAS FO.1 D10	1 ü
5975 1 12 1	CARB.BURRS ALU/ZYAS FO.1 D12	1 ü

Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Rec. speed rpm
9.6	6.0	19.0	64.0	19,000 – 29,000
12.7	6.0	25.0	70.0	16,000 – 24,000

Alu WRC carbide rotary burrs, shape 2

- Radius end shape
- Coarse teeth for cutting with high material removal rate
- Exceptionally well-suited for use with aluminium and aluminium alloys, light metals, all non-ferrous metals and plastics
- Shock-proof work and smooth surface thanks to optimised concentricity
- For use in die grinders
- Similar to DIN 8032 / 8033

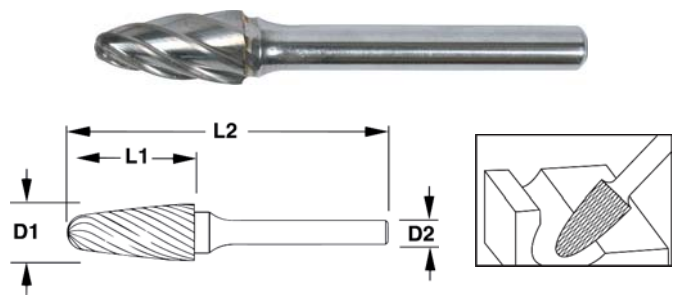


Article No.	Article Description	QTY
5975 2 10 1	CARB.BURRS ALU WRC FO.2 D10	1 ü
5975 2 12 1	CARB.BURRS ALU WRC FO.2 D12	1 ü

Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Rec. speed rpm
9.6	6.0	19.0	64.0	19,000 – 29,000
12.7	6.0	25.0	70.0	16,000 – 24,000

Alu RBF carbide rotary burrs, shape 7

- Semi-circular arch shape
- Coarse teeth for cutting with high material removal rate
- Exceptionally well-suited for use with aluminium and aluminium alloys, light metals, all non-ferrous metals and plastics
- Shock-proof work and smooth surface thanks to optimised concentricity
- For use in die grinders
- Similar to DIN 8032 / 8033



Article No.	Article Description	QTY
5975 7 10 1	CARB.BURRS ALU/RBF FO.7 D10	1 ü
5975 7 12 1	CARB.BURRS ALU RBF FO.7 D12	1 ü

Technical Data				
D1 mm	D2 mm	L1 mm	L2 mm	Rec. speed rpm
9.6	6.0	19.0	64.0	19,000 – 29,000
12.7	6.0	25.0	70.0	16,000 – 24,000

Keyless drill chuck

Article No.	Article Description	QTY
5598 1	KEYLESS DR.CHUCK3/8"-24 0.5-10	1
5598 2	KEYLESS DR.CHUCK1/2"-20 0.5-10	1
5598 3	KEYLESS DR.CHUCK1/2"-20 1.0-13	1
5598 10	KEYLESS DRILL CHUCK B12 1.0-13	1
5598 11	KEYLESS DRILL CHUCK B16 1.0-13	1
5598 12	KEYLESS DRILL CHUCK B16 3.0-16	1

(Fixture / clamping area)



Compact keyless drill chuck

- For reversing boring and hammer drills
- Retaining ring prevents opening of the drill chuck after locking and ensures secure tool clamping

Article No.	Article Description	QTY
5598 570	COMP.KEYL.DR.CH.1/2"-20 1.5-13	1

(Fixture / clamping area)



Keyed - drill chuck

- With drill chuck key
- Art.-No. 5598 40: for reversing hammer and percussive drill with higher impact frequency. Excentric secures the chuck from opening during the drilling.
- Art.-No. 5598 91: suitable drill chuck key S2

Article No.	Article Description	QTY
5598 30	KEYED DRI.CHUCK 3/8"-24 0.8-10	1
5598 31	KEYED DRI.CHUCK 1/2"-20 0.8-10	1
5598 32	KEYED DRI.CHUCK 1/2"-20 1.5-13	1
5598 40	HAMM.DRILL CHUCK1/2"-20 1.5-13	1

(Fixture / clamping area)



Hammer drill chuck

- With SDS Plus mounting for the use with percussion drills
- Art.-No. 5598 9: suitable drill chuck key S2

Article No.	Article Description	QTY
5598 50	HAMM.DRILL CHUCK SDS10 2,5-13	1

(Fixture / clamping area)



Drill chuck key

- For gear rim drill chucks

Article No.	Article Description	QTY
5598 90	DRILL CHUCK KEY (S1) FOR 3/8"	1
5598 91	DRILL CHUCK KEY (S2) FOR 1/2"	1
5598 92	DRILL CHUCK KEY (S3) FOR 3/4"	1

Technical Data

Pin Ø mm
Ø 3.97
Ø 5.89
Ø 7.95



Cutting Disc Steel

- Resin-bonded, fibre-reinforced high-performance cutting disc
- For use with hand-held cutoff machines with electric and petrol engines and on stationary machines = 5 kW
- Fulfills safety requirements as per EN 12413, ANSI B.7.1, BGV D12 + OSA
- Circumferential speed max. 80 m/s

Art.-No. 5809 350 40 1:

- optimal suitable for cutting train and crane rails

Art.-No. 5809 350 30:

- not suitable for the usage in hand-guided machines

Article No.	Article Description	QTY
5809 300 28	PROF.CUTTING DISC 300X2.8X25.4	e 10
5809 300 35	PROF.CUTTING DISC 300X3.5/20	e 10
5809 350 30	PROF.CUTTING DISC 350X3.0X25.4	e 25
5809 350 40	PROF.CUTTING DISC 350X4.0/20	e 10
5809 350 40 1	PROF.CUTTING DISC 350X4.0X25.4	e 10
5809 350 40 254	PROF.CUTTING DISC 350X4.0/25.4	e 10



Cutting Discs Steel/Stainless Steel

- Synthetic resin bound, fibreglass reinforced high performance cutting
- Fe-, S-, Cl-free (<0,1 %)
- Compiles with the safety requirements EN 12413 ANSI B.7.1, BGV D12 + 05A
- Circumferential speed max 80m/s
- Suitable for deep cutters art. no. 5352 9315

Article No.	Article Description	QTY
5352 9315 1	DEEP CUTTER 9300 100X1X10MM	25

(Exterior-Ø x strength x Ø entry mm)



Cutting Discs Steel **ECO**

- Resin-bonded, fibre-reinforced high performance cutting disc
- High lateral stability
- Complies with the safety requirements EN 12413 ANSI B.7.1, BGV D12 + 05A
- Max. circumferential speed 80 m/s

Article No.	Article Description	QTY
5809N 115 10	CUTTING DISC ECO 115X1.0	25
5809N 115 25	CUTTING DISC ECO 115X2.5	25
5809N 125 10	CUTTING DISC ECO 125X1.0	25
5809N 125 25	CUTTING DISC ECO 125X2.5	25
5809N 150 16	CUTTING DISC ECO 150X1.6	25
5809N 178 30	CUTTING DISC ECO 180X3.0	25
5809N 230 19	CUTTING DISC ECO 230X1.9	25
5809N 230 30	CUTTING DISC ECO 230X3.0	25

(Outside-Ø x strength mm)



Professional Cutting Disc - Aluminium

- For all lubricating non-ferrous metals e.g. aluminium, aluminium alloy etc...
- Maximum peripheral speed 80 m/s
- Fe-, S-, Cl-free

Article No.	Article Description	QTY
5803 115 12	PROF.CUTTING DISC ALU 115X1.2	25
5803 115 16	PROF.CUTTING DISC ALU 115X1.6	25
5803 125 12	PROF.CUTTING DISC ALU 125X1.2	25
5803 125 16	PROF.CUTTING DISC ALU 125X1.6	25
5803 125 30	PROF.CUT.DISC ALU DEPR.125X3.0	25
5803 230 30	PROF.CUTTING DISC ALU 230X3.0	25

(DEPR. = depressed / outside-Ø x strength mm)



Professional Cutting Disc - Stone

- Fast, long-lasting, highly resilient
- Maximum peripheral speed 80m/s

Article No.	Article Description	QTY
5810 115 30	PRO.CUT.DIS.STONE DEPR.115X3.0	25
5810 125 30	PRO.CUT.DIS.STONE DEPR.125X3.0	25
5810 230 30	PROF.CUTT.DIS.STONE 230X3.0	25

(DEPR. = depressed / outside-Ø x strength mm)



Two in One - Cutting/Grinding Disc - Steel/INOX

- Cutting and light grinding work in one work step
- Fast cutting thanks to minimised disc thickness of 1.9 mm
- Excellent cutting speed thanks to aggressive grinding medium
- Excellent abrasion thanks to high side stability
- Saves time thanks to minimised tooling effort
- Cutting/grinding disc corresponds to the specifications of EN 12413: 2007
- Fe, S, Cl-free (≤ 0.1 %)
- Max. circumferential speed 80 m/s

Article No.	Article Description	QTY
5811 125 19	CUT.+GRIND. DISC 2IN1 125X1.9	25

(Outside Ø x thickness mm)



Grinding Disks for Aluminium

- Resin-bonded, fiber-reinforced grinding disk
- For professional use on aluminium with highest demands
- Very long lifetime with high sanding aggressiveness
- Circumferential speed max. 80 m/s
- Recommended to use with powerful angle grinder, power consumption: 1,100 W
- Fe-, S-, Cl-free

Applications:

- Grinding of edges and surfaces
- Grinding of weld seams, chamfering, fillet weld grinding
- Coarse grinding of non-ferrous metals



Article No.	Article Description	QTY
5803 7 115 60	GRIND.DISK ALU 115X6.0	10
5803 7 125 60	GRIND.DISK ALU 125X6.0	10

Grinding Disc GREEN FLOW

- Resin-bonded, fibre-reinforced high-performance disc
- Ideal for demanding, fine and large grinding work
- Universally employable, for large cutting jobs as well
- Flexible structure, thereby less vibration and lower noise and dust development
- Long life
- Excellent stripping performance
- Can be used without additional supporting plates
- Corundum P 24
- Cranked type
- Fe+Si+Ci free (<0,1 %)
- Circumferential speed max. 80 m/s
- Recommended for use with powerful angle grinders, power consumption: 1,100 W

Applications:

- Grinding edges and surfaces
- Processing welding seams, chamfering, grinding throat seams
- Rough grinding of metallic surfaces and non-iron metals



Article No.	Article Description	QTY
5804 115 30	GRIND.DISK GREEN FLOW 115X3.0	10
5804 125 30	GRIND.DISK GREEN FLOW 125X3.0	10

Lamellar Disc - Soft-Flex

- Zirconium corundum
- Long service life (up to 10 times longer as fibre discs)
- Adapts to work piece contours (40 % bigger contact area)
- Consistent performance during service life
- High-quality finishing
- Robust base plate
- Max. circumferential speed 80 m/s
- Fe-, S-, Cl-free

Applications:

- Finishing work on welding beads in confined spaces, e. g., engine compartments
- Welding seam smoothing in order to maintain coving at rear pillars, side plates, etc., after changing spare plates
- Welding seam trimming on side panels
- Further application possibilities:
- Paint removal, tool re-sharpening, deburring, edge working, derusting

Material:

- Stainless steel, chromed and nickel-containing steels, alloyed and unalloyed steels, non-ferrous metals, cast iron, wood, plastics



Article No.	Article Description	QTY
5912 125 40	SOFT-FLEX 45'GWT 125 P40	e 10
5912 125 80	SOFT-FLEX 45'GWT 125 P80	e 10

(GSV = quick release screw / GWT = fabric plate / Ø in mm / P = Grain)

Technical Data		
Ø mm	Fixture bore Ø mm	max. speed rpm
125	22.2	13,300

Lamellar flap polishing disc - PoliMAX

- Fleece lamellas for minimum heat development
- High endurance / long service life
- For use with: steel, stainless steel, aluminium, non-ferrous metals
- High efficiency through a plastic backing plate which can be cut to size
- Circumferential speed max. 80 m/s
- Fe-, S-, Cl-free

Application:

PoliMAX TURQUOISE, FINE:

- Polishing steel, stainless steel and non-ferrous metals
- Cleaning the surfaces of many types of material
- Fine polishing to a gloss

PoliMAX RED, MEDIUM:

- Treatment and smoothing of weld seams
- Removal of tarnishing
- Cleaning the surfaces of many types of material
- Preparation of painted surfaces

PoliMAX BROWN, COARSE:

- Removal of scale and rust from steel surfaces
- Removal of tarnishing and material penetration
- Deburring of edges

PoliMAX GREEN, EXTRA COARSE:

- For coarse grinding and fine polishing in one work step
- Deburring of edges and removal of scratches
- Cleaning cast iron workpieces
- Levelling and grinding of weld seams especially in stainless steel
- Removal of paint, filler and rust



fine



middle



rough



extra rough



Article No.	Article Description	QTY
5916 115 1	POLIMAX TURQUOISE 115M FINE	e 10
5916 115 2	POLIMAX RED 115 MEDIUM	e 10
5916 115 3	POLIMAX BROWN 115 COARSE	e 10
5916 115 4	PLIMAX GREEN 155 EXTRA COARSE	e 10
5916 125 1	POLIMAX TURQUOISE 125 FINE	e 10
5916 125 2	POLIMAX RED 125 MEDIUM	e 10
5916 125 3	POLIMAX BROWN 125 COARSE	e 10
5916 125 4	PLIMAX GREEN 125 EXTRA COARSE	eü 10

(Colour / Ø mm / structure)

Fibre Discs Zirconium Corundum Fast-Click FORCH****

High-performance fibre disc with excellent removal rate and maximum

- 30% more efficiency due to innovative FAST-CLICK System
- Short setup times and high utilisation of the abrasive
- Precise and exact working due flexible grinding disc and optimum adaption to the workpiece
- The geometry of the cooling slots provide a high air flow and thus an optimum cooling of the tool and workpiece
- 30% less temperature of the workpiece
- For processing steel and stainless steel
- Grit type: zirconium corundum, synthetic resin bonding
- Max. circumferential speed 80 m/s
- Max. speed at Ø 115 : n = 13,300 rpm; Ø 125 : n = 12,200 rpm

Applications:

- Levelling of weld seams and burrs, edge grinding
- Find grinding of stainless steel elements
- Processing of narrow and difficulty accessible areas (e.g. cooling ribs)
- De-rusting and sanding of all metallic surfaces

Suitable grinding disc for Ø 115 and 125 mm (inside thread M14)
Art. -No. 5900 5 115 125



Article No.	Article Description	QTY
5901 5 125 36	FIBRE D.FAST-CLICK 5* 125 P 36	25
5901 5 125 60	FIBRE D.FAST-CLICK 5* 125 P 60	25
5901 5 125 80	FIBRE D.FAST-CLICK 5* 125 P 80	25
5900 5 115 125	GR.DISC.F.A.GR.5*M14 115/125MM	1

(Ø mm/ P=grit)

Zirconium - Vulcan Fibre Discs

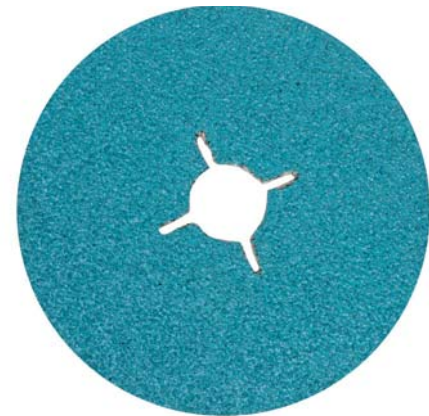
- For processing stainless steel
- Carrier material made of vulcan fibre
- Grit type: zirconium corundum
- Synthetic resin bonding
- 22mm hole with cross slot
- Up to 80m/s circumferential speed
- Max. speed at
Ø 115mm dia.: 13,300 rpm
Ø 125mm dia.: 12,200 rpm

Applications:

- Derusting and cleaning of metallic surfaces
- Levelling of welding seams, deburring work and edge breakage work
- Grinding off old paint and primer coatings

Suitable support plates (M14 internal thread):

- Art.-No. 5900 1: Ø 115 mm
- Art.-No. 5901 1: Ø 125 mm



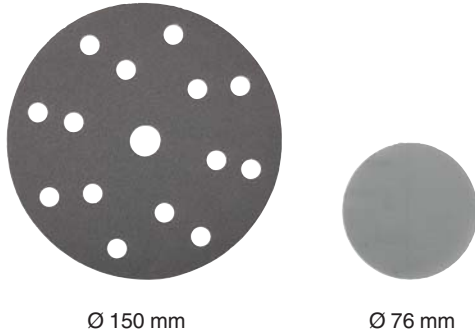
Article No.	Article Description	QTY
5900 1 24	VULC.FIBRE DISCS ZC D115 P 24	25
5900 1 36	VULC.FIBRE DISCS ZC D115 P 36	25
5900 1 40	VULC.FIBRE DISCS ZC D115 P 40	25
5900 1 60	VULC.FIBRE DISCS ZC D115 P 60	25
5900 1 80	VULC.FIBRE DISCS ZC D115 P 80	25
5900 1 120	VULC.FIBRE DISCS ZC D115 P120	25
5901 1 24	VULC.FIBRE DISCS ZC D125 P 24	25

(D = Ø in mm, P = Grit)

Article No.	Article Description	QTY
5901 1 36	VULC.FIBRE DISCS ZC D125 P 36	25
5901 1 40	VULC.FIBRE DISCS ZC D125 P 40	25
5901 1 60	VULC.FIBRE DISCS ZC D125 P 60	25
5901 1 80	VULC.FIBRE DISCS ZC D125 P 80	25
5901 1 100	VULC.FIBRE DISCS ZC D125 P100	25
5901 1 120	VULC.FIBRE DISCS ZC D125 P120	25

Sandpaper for Paint, Loop Discs **FÖRCH*******

- Backing material: tear-resistant plastic film
- Bonding:
 - P80 – P150: Fully synthetic resin
 - P180 – P3,000: Solid resin with stearate coating
- Grit type: Corundum
- Dispersion: sparse
- Hole pattern:
 - Ø 150 mm: 15 holes
 - Ø 76 mm: without holes



Your Advantage / Benefit

- From P180: optimised grit dispersion and anti-stick system for an extended service life
- low scratching depth for best paint possibilities
- The tear-resistant plastic film prevents ripping, fraying and creasing around the edge of the abrasive disc and extraction holes
- The sparse dispersion, combined with the stearate coating prevent rapid clogging of the sandpaper and considerably extend the service life of the product
- Good material removal capacity on tough, scratch-resistant paints

Application

- Dry sanding, sanding filler, polyester, fibreglass filler, form sanding of filler, matting painted surfaces, sanding away transitions, flash rust and stone chips
- Sanding new parts, factory primers



Article No..	Article Description	QTY
5935 5 80 1	SANDP.F.PAINT150 15L P 80 5*	100
5935 5 120 1	SANDP.F.PAINT150 15L P 120 5*	100
5935 5 150 1	SANDP.F.PAINT150 15L P 150 5*	100
5935 5 180 1	SANDP.F.PAINT150 15L P 180 5*	100
5935 5 220 1	SANDP.F.PAINT150 15L P 220 5*	100
5935 5 240 1	SANDP.F.PAINT150 15L P 240 5*	100
5935 5 320 1	SANDP.F.PAINT150 15L P 320 5*	100
5935 5 400 1	SANDP.F.PAINT150 15L P 400 5*	100
5935 5 500 1	SANDP.F.PAINT150 15L P 500 5*	100
5935 5 600 1	SANDP.F.PAINT150 15L P 600 5*	100
5935 5 800 1	SANDP.F.PAINT150 15L P 800 5*	50
5935 5 1000 1	SANDP.F.PAINT150 15L P1000 5*	50
5935 5 1500 1	SANDP.F.PAINT150 15L P1500 5*	50
5935 5 2000 1	SANDP.F.PAINT150 15L P2000 5*	50
5935 5 2500 1	SANDP.F.PAINT150 15L P2500 5*	50
5935 5 3000 1	SANDP.F.PAINT150 15L P3000 5*	50
5935 5 80 76	SANDP.F.PAINT76 NO HO.P 80 5*	50
5935 5 120 76	SANDP.F.PAINT76 NO HO.P 120 5*	50
5935 5 150 76	SANDP.F.PAINT76 NO HO.P 150 5*	50
5935 5 180 76	SANDP.F.PAINT76 NO HO.P 180 5*	50
5935 5 220 76	SANDP.F.PAINT76 NO HO.P 220 5*	50
5935 5 240 76	SANDP.F.PAINT76 NO HO.P 240 5*	50
5935 5 320 76	SANDP.F.PAINT76 NO HO.P 320 5*	50
5935 5 400 76	SANDP.F.PAINT76 NO HO.P 400 5*	50
5935 5 500 76	SANDP.F.PAINT76 NO HO.P 500 5*	50
5935 5 600 76	SANDP.F.PAINT76 NO HO.P 600 5*	50
5935 5 800 76	SANDP.F.PAINT76 NO HO.P 800 5*	50
5935 5 1000 76	SANDP.F.PAINT76 NO HO.P1000 5*	50
5935 5 1500 76	SANDP.F.PAINT76 NO HO.P1500 5*	50
5935 5 2000 76	SANDP.F.PAINT76 NO HO.P2000 5*	50
5935 5 2500 76	SANDP.F.PAINT76 NO HO.P2500 5*	50
5935 5 3000 76	SANDP.F.PAINT76 NO HO.P3000 5*	50

(Velcro / Ø mm / hole / P = grit)

Related Products

- **Klett-Back up pad 150 Multi-H Flex**
Art.-No. 5937 1



- **Orbital Sanding Dragstar 150 ml**
Art.-No. 5353 3325, 5353 3350



- **Disposable gloves, nitrile**
Art.-No. 5405 40 1 1



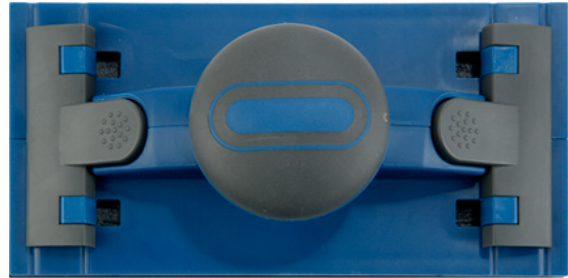
Grinding Block, Plastic

- 2 holders
- Grinding plate with soft plastic support
- Stable version

Article No.	Article Description	QTY
5924 1 1	KST-HANDSCHLEIFKLOTZ 180X85MM	1
5924 105 1	PLST.HAND GRIND.BLOCK212X105MM	1



5924 1 1



5924 105 1

Grinding Block - Cork

Article No.	Article Description	QTY
5924 2	GRIND.BLOCK - CORK 120X60X35MM	1



Grinding Block - Velcro

- With hard and flexible side
- For wet and dry grinding
- For the use with Velcro file strips and grinding fleeces (have to be cut to size)

Article No.	Article Description	QTY
5929 1	VELCRO GRINDING BLOCK 70X125MM	1



Finger Grinder - Velcro

- For grinding discs with Ø 38 mm, daisy discs velcro Ø 35 mm and daisy discs self-adhesive Ø 35 mm
- For manual use



Article No.	Article Description	QTY
5977 30 1	VELCRO FINGER GRINDER 30MM	1

Round, Hand Grinding Block – Velcro

- 75 mm Ø



Article No.	Article Description	QTY
5938 18	VELC.HAND GRI.BLOCK ROUND 75MM	1

Profiled, Hand Grinding Block – Velcro

- For surface and edge grinding
- For use with Velcro grinding discs Ø 150 mm



Article No.	Article Description	QTY
5938 4	VEL.PROFILE HAN.GRI.BLOCK150MM	1

Profiled, hand grinding disc – velcro

- For use with Velcro grinding discs as well as polishing sponges
- Ø 150mm



Article No.	Article Description	QTY
5938 15	VEL.PROFILE HA.GRIN.DISC 150MM	1

Hand Pad – Velcro

- Hand pad consists of flexible sponge rubber with Velcro coating and can be attached on the hand with an elastic band on the back

Applications:

- Inner and outer roundings, edges, tubes etc...

Article No.	Article Description	QTY
5938 14	VELCRO HAND PAD 150MM	1



Sanding net Ice

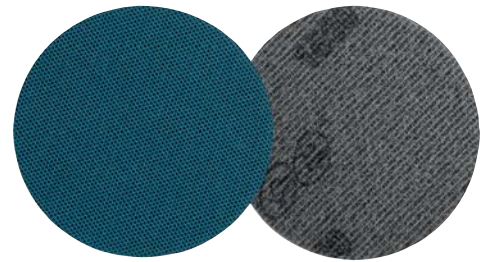
- Elastic sanding net for an effective sanding out of paint defects
- Water-absorbing foam pad fits optimally to uniformly distribute pressure across the painted surface
- Water-resistant and washable, thus reusable
- Constant sanding result throughout the entire service life
- High-quality surface and low surface roughness
- Carrier material: flexible foam
- Grit type: aluminium oxide

Applications:

- Primer coat sanding
- Rotor improvement
- Removal of dust inclusions
- Adjusting or smoothing orange skin
- Balancing out transitions
- Paint preparation

Article No.	Article Description	QTY
5977 80 1500	SANDING NET ICE 4X80 P1500	6
5977 80 2000	SANDING NET ICE 4X80 P2000	6
5977 80 3000	SANDING NET ICE 4X80 P3000	6

(H x Ø mm / P = grit)



Technical Data		
Ø mm	Grit	Colour
80	P 1500	Blue
80	P 2000	Purple
80	P 3000	Green



ABRALON - Velcro

- Elastic grinding net saturated with abrasive grains
- Perfect finishing product for numerous surfaces, for old and new paint

Applications:

- Finishing grinding of fillers
- Removes lacquer run
- Removes dust contaminants in the paint
- Polishing or smoothing orange peel
- Smoothing transitions
- Ideal automotive treatment



Article No.	Article Description	QTY
5977 2 1000	VELCRO ABRALON 6X150MM P1000	e 20
5977 2 2000	VELCRO ABRALON 6X150MM P2000	e 20
5977 2 3000	VELCRO ABRALON 6X150MM P3000	e 20
5977 2 4000	VELCRO ABRALON 6X150MM P4000	e 20
5977 7 500	VELCRO ABRALON 6X77MM P500	e 20
5977 7 2000	VELCRO ABRALON 6X77MM P2000	e 20
5977 7 3000	VELCRO ABRALON 6X77MM P3000	e 20
5977 7 4000	VELCRO ABRALON 6X77MM P4000	e 20

(Height x Ø mm / P = grit)



De-Nibbing Block for Paint Repair

- Ideal wet abrasive for the removal of paint defects e.g. dust contamination and lacquer runs of imperfections
- Dimension (L x W x H): 60 x 30 x 20 mm

Grit:

- Indicated by colour on the front side and in writing on the face
- P 800 Neutral
- P 1500 Yellow
- P 2000 Green
- P 3000 Brown

Article No.	Article Description	QTY
5977 6 800	DE-NIBB.BLOCK 60X30X20MM P800	1
5977 6 1500	DE-NIBB.BLOCK 60X30X20MM P1500	1
5977 6 2000	DE-NIBB.BLOCK 60X30X20MM P2000	1
5977 6 3000	DE-NIBB.BLOCK 60X30X20MM P3000	1

(L x W x H mm / P = grit)



Abrasive Band

- Mainly for surface grinding, particularly when stronger chip removal is necessary
- Abrasive band with aluminium oxide and fully synthetic resin bond for working on forged steel, CrNi and other stainless steels and non-ferrous metals, malleable and grey cast iron, wood etc...

Article No.	Article Description	QTY
5960 10 50	ABRASIVE BAND D10MM B20MM P50	50
5960 10 80	ABRASIVE BAND D10MM B20MM P80	50
5960 10 150	ABRASIVE BAND D10MM B20MM P150	50
5960 12 80	ABRASIVE BAND D12MM B10MM P80	50
5960 12 150	ABRASIVE BAND D12MM B10MM P150	50
5960 12 240	ABRASIVE BAND D12MM B10MM P240	50
5960 13 50	ABRASIVE BAND D13MM B25MM P50	50
5960 13 80	ABRASIVE BAND D13MM B25MM P80	50
5960 13 150	ABRASIVE BAND D13MM B25MM P150	50
5960 15 50	ABRASIVE BAND D15MM B30MM P50	50
5960 15 80	ABRASIVE BAND D15MM B30MM P80	50
5960 15 150	ABRASIVE BAND D15MM B30MM P150	50
5960 15 240	ABRASIVE BAND D15MM B30MM P240	50
5960 19 50	ABRASIVE BAND D19MM B25MM P50	50
5960 19 80	ABRASIVE BAND D19MM B25MM P80	50
5960 19 150	ABRASIVE BAND D19MM B25MM P150	50
5960 22 50	ABRASIVE BAND D22MM B20MM P50	50
5960 22 80	ABRASIVE BAND D22MM B20MM P80	50
5960 22 150	ABRASIVE BAND D22MM B20MM P150	50
5960 22 240	ABRASIVE BAND D22MM B20MM P240	50
5960 25 50	ABRASIVE BAND D25MM B25MM P50	50
5960 25 80	ABRASIVE BAND D25MM B25MM P80	50
5960 25 150	ABRASIVE BAND D25MM B25MM P150	50
5960 30 50	ABRASIVE BAND D30MM B30MM P50	50
5960 30 80	ABRASIVE BAND D30MM B30MM P80	50
5960 30 150	ABRASIVE BAND D30MM B30MM P150	50
5960 38 50	ABRASIVE BAND D38MM B25MM P50	50
5960 38 80	ABRASIVE BAND D38MM B25MM P80	50
5960 38 150	ABRASIVE BAND D38MM B25MM P150	50
5960 45 50	ABRASIVE BAND D45MM B30MM P50	50
5960 45 80	ABRASIVE BAND D45MM B30MM P80	50
5960 45 150	ABRASIVE BAND D45MM B30MM P150	50
5960 60 50	ABRASIVE BAND D60MM B30MM P50	50
5960 60 80	ABRASIVE BAND D60MM B30MM P80	50
5960 60 150	ABRASIVE BAND D60MM B30MM P150	50



Technical Data		
Ø	Width	Min. – max. speed
10 mm	20 mm	30,000 – 44,000 rpm
12 mm	10 mm	30,000 – 36,000 rpm
13 mm	25 mm	25,000 – 44,000 rpm
15 mm	30 mm	30,000 – 36,000 rpm
19 mm	25 mm	20,000 – 30,000 rpm
22 mm	20 mm	18,000 – 26,000 rpm
25 mm	25 mm	16,000 – 24,000 rpm
30 mm	30 mm	13,000 – 19,000 rpm
38 mm	25 mm	10,000 – 15,000 rpm
45 mm	30 mm	9,000 – 12,700 rpm
60 mm	30 mm	6,500 – 9,500 rpm

(D = diameter/ B = width / P = grit)

Abrasive Band Arbor

- Shaft Ø 6mm
- Slotted elastomer abrasive band arbor with centrifugal force tensioning
- The centrifugal force increases the diameter of the arbor which enables stretching of the abrasive band and provides safe and non-slipping fit at the same time.
- Pay Attention to minimum speed



Article No.	Article Description	QTY
5961 10	ABRASIVE BAND ARBOR D10MM	1
5961 12	ABRASIVE BAND ARBOR D12MM	1 ü
5961 13	ABRASIVE BAND ARBOR D13MM	1
5961 15	ABRASIVE BAND ARBOR D15MM	1 ü
5961 19	ABRASIVE BAND ARBOR D19MM	1
5961 22	ABRASIVE BAND ARBOR D22MM	1
5961 25	ABRASIVE BAND ARBOR D25MM	1
5961 30	ABRASIVE BAND ARBOR D30MM	1
5961 38	ABRASIVE BAND ARBOR D38MM	1
5961 45	ABRASIVE BAND ARBOR D45MM	1
5961 60	ABRASIVE BAND ARBOR D60MM	1

Technical Data		
Ø	Width	Min. – max. speed
10 mm	20 mm	30,000 – 44,000 rpm
12 mm	10 mm	30,000 – 36,000 rpm
13 mm	25 mm	25,000 – 44,000 rpm
15 mm	30 mm	30,000 – 36,000 rpm
19 mm	25 mm	20,000 – 30,000 rpm
22 mm	20 mm	18,000 – 26,000 rpm
25 mm	25 mm	16,000 – 24,000 rpm
30 mm	30 mm	13,000 – 19,000 rpm
38 mm	25 mm	10,000 – 15,000 rpm
45 mm	30 mm	9,000 – 12,700 rpm
60 mm	30 mm	6,500 – 9,500 rpm

Lamellar Disc - Soft-Flex GSV

- Zirconium corundum
- Long service life (up to 10 times longer as fibre discs)
- Adapts to work piece contours (40% bigger contact area)
- Consistent performance during service life
- High-quality finishing
- Robust base plate

Applications:

- Finishing work on welding beads in confined spaces, e. g., engine compartments
- Welding seam smoothing in order to maintain coving at rear pillars, side plates, etc., after changing spare plates
- Welding seam trimming on side panels
- Paint removal, tool re-sharpening, deburring, edge working, derusting

Material:

- Stainless steel, chromed and nickel-containing steels, alloyed and unalloyed steels, non-ferrous metals, cast iron, wood, plastics



Technical Data		
Ø mm	Intake / fixture bore mm	Max. working speed rpm
50	GSV	30,000
75	GSV	19,100

Article No.	Article Description	QTY
5912 50 40	SOFT-FLEX 45'GSV 50 P40	e 10
5912 50 60	SOFT-FLEX 45'GSV 50 P60	e 10
5912 50 80	SOFT-FLEX 45'GSV 50 P80	e 10

Article No.	Article Description	QTY
5912 50 120	SOFT-FLEX 45'GSV 50 P120	e 10
5912 75 80	SOFT-FLEX 45'GSV 75 P80	e 10
5912 75 120	SOFT-FLEX 45'GSV 75 P120	e 10

(GSV = quick release screw / GWT = fabric plate / Ø in mm / P = grit)

GSV Fibre Disc - Aluminium Oxide

- External male thread
- Carrier material: linen cloth
- Derusting and cleaning of metallic surfaces. Levelling of welding seams, edge grinding, grinding of old paint and primer layers, sealings etc.
- Max. rotational speed:
38mm Ø: 34,000 rpm
50mm Ø: 30,000 rpm
75mm Ø: 28,000 rpm



Article No.	Article Description	QTY
5976 38 24	GSV FIBRE DISC AL/OX D38MM P24	g 100
5976 38 36	GSV FIBRE DISC AL/OX D38MM P36	g 100
5976 38 50	GSV FIBRE DISC AL/OX D38MM P50	g 100
5976 38 60	GSV FIBRE DISC AL/OX D38MM P60	g 100
5976 38 80	GSV FIBRE DISC AL/OX D38MM P80	g 100
5976 38 100	GSV FIBRE DISC AL/OX D38MM P100	g 100
5976 38 120	GSV FIBRE DISC AL/OX D38MM P120	g 100
5976 50 24	GSV FIBRE DISC AL/OX D50MM P24	g 100
5976 50 36	GSV FIBRE DISC AL/OX D50MM P36	g 100
5976 50 50	GSV FIBRE DISC AL/OX D50MM P50	g 100
5976 50 60	GSV FIBRE DISC AL/OX D50MM P60	g 100
5976 50 80	GSV FIBRE DISC AL/OX D50MM P80	g 100
5976 50 100	GSV FIBRE DISC AL/OX D50MM P100	g 100
5976 50 120	GSV FIBRE DISC AL/OX D50MM P120	g 100
5976 75 24	GSV FIBRE DISC AL/OX D75MM P24	g 50

Article No.	Article Description	QTY
5976 75 36	GSV FIBRE DISC AL/OX D75MM P36	g 50
5976 75 50	GSV FIBRE DISC AL/OX D75MM P50	g 50
5976 75 60	GSV FIBRE DISC AL/OX D75MM P60	g 50
5976 75 80	GSV FIBRE DISC AL/OX D75MM P80	g 50
5976 75 120	GSV FIBRE DISC AL/OX D75MM P120	g 50

GSV Zirconium Fibre Disc

- External male thread
- Carrier material: linen cloth
- Same applications as aluminium oxide, ideally suitable for stainless steel working
- Max. rpm: 28,000

Article No.	Article Description	QTY
5976 75 36 1	GSV FIBRE DISC ZIRC.D75MM P 36	g 50
5976 75 50 1	GSV FIBRE DISC ZIRC.D75MM P 50	g 50
5976 75 60 1	GSV FIBRE DISC ZIRC.D75MM P 60	g 50
5976 75 80 1	GSV FIBRE DISC ZIRC.D75MM P 80	g 50
5976 75 100 1	GSV FIBRE DISC ZIRC.D75MM P100	g 50



Non-Woven Nylon Abrasive / Ceramic Red, GSV

- With abrasive outer edge
- Open, flexible nylon abrasive with ceramic grain
- Removes rust, paint, primer, stone guard, and sealing compounds



Your Advantage / Benefit

- Ceramic abrasive grain for improved
- Removal performance and operating life
- Facilitates high grinding power at low loads
- Only minimal geometric changes to the surface
- Very high edge strength
- Short setup and downtime, less production downtime

Application

- Cleaning of welding seams, metal surfaces, and synthetic materials
- Removal of rust, paints, primers, stone guard compounds, sealing compounds, tarnishing, joint fillers
- Deburring of cast parts



5976 5 50 4



5976 5 75 4



Technical Data		
Art.-No.	Colour	Working Speed max. rpm
5976 5 50 4	red	9,000
5976 5 75 4	red	6,500

Article No.	Article Description	QTY
5976 5 50 4	GSV-NYL/CER-ABRAS.RED D50MM 5*	z 25
5976 5 75 4	GSV-NYL/CER-ABRAS.RED D75MM 5*	z 25

Related Products

- **GSV Holder 6mm.Shaft D50mm**
Art.-No. 5976 50
Art.-No. 5976 75



- **Angle Grinder**
Art.-No. 5353 7107



- **Mechanics Gloves - Nappa Leather**
Art.-No. 5405 126 8 - 11



Grinding Caps

- For fine grinding work, particularly at areas difficult of access or of complex shape
- Seamlessly shaped grinding caps with aluminium oxide and fully synthetic resin bond, for use for forged steel, CrNi and other stainless steels, non-ferrous metals, grey and malleable cast iron, wood etc.
- AGR 5963: cylindrical shape
- AGR 5965: cylindrical domed shape
- AGR 5967: cylindrical conical shape

Maximum permissible speed:

- 10mm head Ø : 22,000 rpm
- 16mm head Ø : 14,000 rpm



Article No.	Article Description	QTY
5963 10 80	GRINDING CAPS CYL D10MM P 80	f 100
5963 10 150	GRINDING CAPS CYL D10MM P150	f 100
5963 10 320	GRINDING CAPS CYL D10MM P320	f 100
5963 16 80	GRINDING CAPS CYL D16MM P 80	f 100
5963 16 150	GRINDING CAPS CYL D16MM P150	f 100
5963 16 320	GRINDING CAPS CYL D16MM P320	f 100
5965 10 80	GRINDING CAPS DOMED D10MM P 80	f 100
5965 10 150	GRINDING CAPS DOMED D10MM P150	f 100
5965 10 320	GRINDING CAPS DOMED D10MM P320	f 100
5965 16 80	GRINDING CAPS DOMED D16MM P80	f 100
5965 16 150	GRINDING CAPS DOMED D16MM P150	f 100
5965 16 320	GRINDING CAPS DOMED D16MM P320	f 100
5967 10 80	GRIND.CAPS CONICAL D10MM P80	f 100
5967 10 150	GRIND.CAPS CONICAL D10MM P150	f 100
5967 10 320	GRIND.CAPS CONICAL D10MM P320	f 100
5967 16 80	GRIND.CAPS CONICAL D16MM P80	f 100
5967 16 150	GRIND.CAPS CONICAL D16MM P150	f 100
5967 16 320	GRIND.CAPS CONICAL D16MM P320	f 100

Technical Data	
Art.-No.	Head length mm
5963 10 80	15
5963 10 150	15
5963 10 320	15
5963 16 80	26
5963 16 150	26
5963 16 320	26
5965 10 80	15
5965 10 150	15
5965 10 320	15
5965 16 80	26
5965 16 150	26
5965 16 320	26
5967 10 80	15
5967 10 150	15
5967 10 320	15
5967 16 80	26
5967 16 150	26
5967 16 320	26

(D = head Ø mm / P = grit)

Grinding Cap Arbors – 3mm Shaft Ø

- Slotted elastomer abrasive cap arbor with centrifugal force tension. The centrifugal force increases the arbor diameter which enables clamping of the grinding cap and provides a safe, non-slipping fit.
- By using the adapter sleeve Art.-No. 5968 1, machines with 6mm arbor mountings can also be used.

Maximum permissible speed:

- 10mm head Ø : 22,000 rpm
- 16mm head Ø : 14,000 rpm

Article No.	Article Description	QTY
5964 10	GRIND.CAP ARBOR CYLINDRI.D10MM	1
5964 16	GRIND.CAP ARBOR CYLINDRI.D16MM	1
5966 10	GRINDING CAP ARBOR DOMED D10MM	1
5966 16	GRINDING CAP ARBOR DOMED D16MM	1
5968 10	GRIND.CAP ARBOR CONICAL D10MM	1
5968 16	GRIND.CAP ARBOR CONICAL D16MM	1

(D = diameter in mm)



Reducing Sleeve

- For using grinding cap carriers with machines accepting 3 mm shafts
- Suitable for Die Grinder - Mini: Art.-No. 5353 7011
- Suitable for Angle Grinder: Art.-No. 5353 7107 Art.-No. 5353 7301

Article No.	Article Description	QTY
5968 1	REDUCING SLEEVE 6/3MM	1



Wire Brushes - Twisted

- Aggressive, for quick and complete removal of
 - Stone-chip protection and underbody coatings
 - Sealings and adhesives
 - Paint, tinder, corrosion etc...
 - Concrete residues of boardings
 - For deburring and fettling of welding seams

Art.-No. 5860 1 125 6 pipeline brush:

- For working on U and V weld seams in tubing and pipeline construction
- For brushing out sheet metal creases in the bodywork area



5860 1 115
5860 1 125
5860 1 150



5860 1 125 6

Technical Data

Art.-No.	Fixing	Ø mm	Width mm	Max. rpm	Wire Ø mm
5860 1 115	hole 22.2 mm	115	-	12,500	0.50
5860 1 125	hole 22.2 mm	125	-	12,500	0.50
5860 1 125 6	hole 22.2 mm	125	6	12,000	0.50
5860 1 150	hole 22.2 mm	150	-	5,000	0.50
5860 2 75	shaft 6 mm	75	6	20,000	0.50
5860 3 65	female thread M10	65	-	12,000	0.35
5860 4 65	female thread M14	65	-	12,000	0.35
5860 4 65 1	female thread M14	65	-	12,000	0.50
5860 5 100	female thread M14	100	-	12,500	0.50
5860 5 115	female thread M14	115	-	12,500	0.50
5860 6 19	shaft 6 mm	19	-	20,000	0.35
5860 6 30	shaft 6 mm	30	-	20,000	0.35
5860 6 70	shaft 6 mm	70	-	6,000	0.35



5860 2 75



5860 3 65
5860 4 65
5860 4 65 1



5860 5 100
5860 5 115



5860 6 19
5860 6 30



5860 6 70

Article No.	Article Description	QTY
5860 1 115	ROUND BRUSH TWIS.22.2MM D115MM	1
5860 1 125	ROUND BRUSH TWIS.22.2MM D125MM	1
5860 1 125 6	PIPELINE BRUSH 22.2MM 125X6	e 8
5860 1 150	ROUND BRUSH TWIS.22.2MM D150MM	1
5860 2 75	SHAFT-ROUND BRUSH TW.6MM D75MM	1 z
5860 3 65	WIRE ROUND BRUSH TW.M10 D65MM	1
5860 4 65	WIRE WOUND BRUSH TW.M14 D65MM	1
5860 4 65 1	WIRE WOUND BRUSH TW.M14 D65MM	1
5860 5 100	CONICAL BRUSH TWIST.M14 D100MM	1
5860 5 115	CONICAL BRUSH TWIST.M14 D115MM	1
5860 6 19	END BRUSH TWISTED 6MM D19MM	1 z
5860 6 30	END BRUSH KNOTTED 6MM D30MM	e 10
5860 6 70	ROUND BRUSH TWISTED 6MM D70MM	1 z

Safety Brush and Shaft

- Single steel wires embedded in elastic plastic
- Extremely aggressive with long service life
- For processing welding seams and weld spots
- For removing paint, tinder, corrosion, etc.
- Machine mount: 6mm Ø shaft
- Max. speed: 15,000 rpm

Article No.	Article Description	QTY
5866 63	SAF.BRUSH+SHAFT W.PLASTIC 63MM	1 z
5866 75	SAF.BRUSH+SHAFT W.PLASTIC 75MM	1 z

(mm Ø)



Wire Brushes – Single Wire

- For removing rust, paint, primer, surface coatings, etc.
- For cleaning forms and cast iron parts
- For deburring surfaces
- For areas difficult of access e.g. inner edges, slots, chinks, etc.

Technical Data					
Art.-No.	Fixing	Ø mm	Max. speed mm	Wire Ø mm	Width mm
5861 1 26	shaft 6 mm	26	15,000	0.15	2.5
5861 1 50	shaft 6 mm	50	15,000	0.30	10
5861 1 50 25	shaft 6 mm	50	15,000	0.20	2.5
5861 1 55 2	shaft 6 mm	55	15,000	0.30	10
5861 1 60	shaft 6 mm	60	15,000	0.30	10
5861 1 60 1	shaft 6 mm	60	15,000	0.30	20
5861 2 12	shaft 6 mm	12	20,000	0.30	-
5861 2 20	shaft 6 mm	20	18,000	0.30	-
5861 2 28	shaft 6 mm	28	15,000	0.30	-
5861 4 65	female thread M 10	65	11,000	0.35	-
5861 5 80	female thread M 14	80	8,500	0.3	-
5861 3 50	shaft 6 mm	50	6,000	0.30	-
5861 3 75	shaft 6 mm	75	4,500	0.30	-

Article No.	Article Description	QTY
5861 1 26	ROUND BRUSH ST/BR B2.5MM D26MM	1 z
5861 1 50	ROUND BRUSH ST B10MM D50MM	1 z
5861 1 50 25	ROUND BRUSH ST/BR B2.5MM D50MM	1 z
5861 1 50 5	ROUND BRUSH ST/BR B2.5MM D50MM	1 z
5861 1 55 2	ROUND BRUSH ST/BR B10MM D55MM	1 z
5861 1 60	ROUND BRUSH ST B10MM D60MM	1 z
5861 1 60 1	ROUND BRUSH ST B20MM D60MM	1 z
5861 2 12	END BRUSH ST D12MM	1 z
5861 2 20	END BRUSH ST D20MM	1 z
5861 2 28	END BRUSH ST D28MM	1 z
5861 3 50	CUP BRUSH ST D50MM	1 z
5861 3 75	CUP BRUSH ST D75MM	1 z
5861 4 65	CUP BRUSH ST M10 D65MM	1
5861 5 80	CUP BRUSH ST M14 D80MM	1



Wire Brush Turbo

- Practical steel round brush with mandrel
- Can be used on a cordless drill or an angular grinder (with thread M14 x 1.5, max. 3,500 rpm)
- Don't press too strongly, this only increases the wear of the wire brush, it does not increase the work speed
- The open construction prevents residues from getting stuck
- Reliably removes rust, underbody sealant, paint, sealing gaskets etc.
- Hardly any warming of the processed areas
- Can be sharpened up to 10-times by counter-clockwise turning on a grinding stone
- Maximum speed: 3,500 rpm
- Ø approx. 100 mm
- Shaft-Ø: 8 mm
- Rotation speed dependent roughness:
 - 3,000 rpm comparable to a 60 grit sandpaper
 - 800 rpm comparable to a 120 grit sandpaper
- Suitable grinding stone: Art.-No. 5352 3508

Article No.	Article Description	QTY
5861 6 100	WIRE BRUSH TURBO B20MM D100MM	1
5861 6 100 1	PK(5)WIRE BRUSH T.B20MM D100MM	1
5861 6 100 2	MANDREL FOR WIRE BRUSH TURBO	1

Contents Art.-No. 5861 6 100:

- 1x Mandrel
- 1x Wire brush Turbo

Contents Art.-No. 5861 6 100 1:

- 1x Mandrel
- 5x Wire brush Turbo



Twisted Wire Brushes - Stainless Steel V2A

- For heavier work e.g. removing paint, primer and surface coatings, sealings, adhesives and oxide layers etc...

Technical Data					
Art.-No.	Machine mount	Ø mm	Width mm	Max. rpm	Wire Ø mm
5862 1 115	drilling 22.2 mm	115	-	11,000	0.50
5862 1 125	drilling 22.2 mm	125	-	10,000	0.50
5862 1 125 6	drilling 22.2 mm	125	6	10,000	0.50
5862 1 150	drilling 22.2 mm	150	-	9,000	0.50
5862 2 70	shaft 6 mm	70	6	20,000	0.50
5862 4 65	female thread M14	65	-	12,000	0.50
5862 5 100	female thread M14	100	-	12,500	0.50
5862 5 115	female thread M14	115	-	12,500	0.50
5862 6 19	shaft 6 mm	19	6	20,000	0.35



Article No.	Article Description	QTY
5862 1 115	ROUND BRUSH TW.V2A 22.2MM D115	1
5862 1 125	ROUND BRUSH TW.V2A 22.2MM D125	1
5862 1 125 6	ROUND BRU.TW.V2A 22.2MM D125X6	1
5862 1 150	ROUND BRUSH TW.V2A 22.2MM D150	1
5862 2 70	SHAFT-ROU.BR.TW.V2A 6MM D70MM	1 z
5862 4 65	WIRE ROUND BR.TW.V2A M14 D65MM	1
5862 5 100	CO.TOP WIRE BR.TW.V2A M14 D100	1
5862 5 115	CO.TOP WIRE BR.TW.V2A M14 D115	1
5862 6 19	END BRUSH TWIST.V2A 6MM D19MM	1 z

Crinkled Wire Brushes – Stainless Steel V2A

- For light work e.g. removing paint, primer and surface coatings and oxide layers etc...
- For preparing clean surfaces, surface deburring

Technical Data					
Art.-No.	Fixing	Ø mm	Width mm	Max. speed rpm.	Wire Ø mm
5863 1 50	shaft 6 mm	50	10	15,000	0.3
5863 1 60	shaft 6 mm	60	10	15,000	0.3
5863 2 24	shaft 6 mm	24	-	18,000	0.3
5863 2 30	shaft 6 mm	30	-	15,000	0.3
5863 3 100	female thread M14	100	-	12,500	0.3
5863 5 60	femaile thread M14	60	-	12,500	0.3



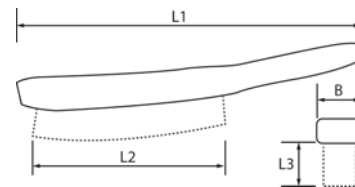
Article No.	Article Description	QTY
5863 1 50	SH-ROUND CRINKL.V2A 6MM D50MM	1 z
5863 1 60	SH-ROUND CRINKL.V2A 6MM D60MM	1 z
5863 2 24	END BRUSH CRINKL.V2A 6MM D24MM	1 z
5863 2 30	END BRUSH CRINKL.V2A 6MM D30MM	1 z
5863 3 100	CONE BRUSH THR.V2A M14 D100MM	1
5863 5 60	CUP BRUSH THR.V2A M14 D 60MM	1
5863 5 80	WIRE ROUND BR.CR.V2A 14MMD80MM	1

Hand Wire Brushes Steel / Brass

- Total length: 290 mm
- Wired length: 140 mm

Technical Data					
Art.-No.	L1	L2	L3	B	Wire Ø
	mm	mm	mm	mm	mm
5850 2	290	140	25	22	0.3
5850 3	290	140	25	28	0.3
5850 4	290	140	25	32	0.3
5850 5	290	140	25	38	0.3
5851 2	290	140	25	22	0.3
5851 3	290	140	25	28	0.3
5851 4	290	140	25	32	0.3
5851 5	290	140	25	38	0.3
5852 4	290	140	25	32	0.3

Article No.	Article Description	QTY
5850 2	HAND-WIRE BRUSH 2-ROW STEEL	1 z
5850 3	HAND-WIRE BRUSH 3-ROW STEEL	1 z
5850 4	HAND-WIRE BRUSH 4-ROW STEEL	1 z
5850 5	HAND-WIRE BRUSH 5-ROW STEEL	1 z
5851 2	HAND-WIRE BRUSH V2A 2-ROW	1 z
5851 3	HAND-WIRE BRUSH V2A 3-ROW	1 z
5851 4	HAND-WIRE BRUSH V2A 4-ROW	1 z
5851 5	HAND-WIRE BRUSH V2A 5-ROW	1 z
5852 4	HAND-WIRE BRUSH 4-ROW BRASS	1 z

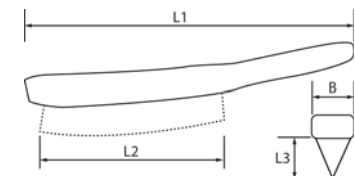


Fillet weld brushes with wooden handle

- Removal of slag and scale from welding seams and fillet welds that are difficult to reach
- For all light rust removal and cleaning work
- With hanging hole

Technical Data					
Art.-No.	L1	L2	L3	Wire Ø	B
	mm	mm	mm	mm	mm
5850 3 1	290	135	35	0.35	30
5851 3 1	290	135	35	0.35	30

Article No.	Article Description	QTY
5850 3 1	HAND-DB FILL.SEAM ST.V FORM 3R	1 d
5851 3 1	HAND-DB FILL.SEAM V2A V FORM3R	1 d



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

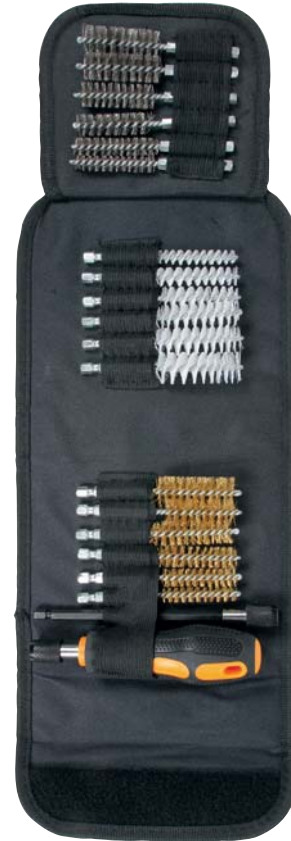


Round Brush Set with Bit Adapter

- Very versatile for cleaning and polishing in motor vehicle and machinery sectors and other fields dealing with metal, plastic, wood etc.
- **Cleaning in motor vehicle sector:** battery connections, corroded lamp sockets, valve guides, brake calliper guides, sockets, water levels of the cylinder block and head, inlets and outlets, socket holes of gear and differential housing or cylinder head, hose connections, throttle valve (nylon brushes), vacuum connections, deburring, de-rusting, stripping veneer from holes, air conditioning, etc.
- **Cleaning in general trade:** internal cleaning of pipes, condensers, tools, ducts, drill chucks, threaded holes, removal of rust film, stamps and matrices, maintenance, cables etc.

Application:

do not insert twisted brushes against the twist of the wire as the tension is lost when twisted in the wrong direction and the bristles fall out. The brushes in this set are intended for right-handed winding **Nylon bristles:** nylon is abrasion-proof and resistant to weak acids and alkaline solutions. Temperature resistant up to approx. 100°C. For light cleaning or sensitive / smooth surfaces **Corrugated brass:** suitable for working with non-ferrous metals and for light deburring on steel **corrugated rust-free steel:** is the most commonly used trim material for twisted brushes. Suitable for tough deburring and cleaning of hard surfaces



Article No.	Article Description	QTY
5868 20	ROUND BRUSH SET W.BIT ADAPTER	1

Contents:

- **20-piece set in practical, foldable nylon work bag with Velcro fastening:** 1/4" drive, Ø 9/ 11/ 13 / 15/ 17/ 19 mm
 - 6x brass hardware
 - 6x nylon hardware
 - 6x rust-free steel
 - 1x extension 150 mm with quick release for machine use
 - 1x handle 150 mm with quick release for manual use

Round Brushes Accessories

- Supplied in a poly bag
- 2 x 3 sizes per bag

Article No.	Article Description	QTY
5868 20 1	NYLON BRUSHES 15/17/19MM 6PCE	1



Hub Grinders

- fast, uncomplicated and residue-free removal
- replaceable cleaning discs
- no flying sparks
- minimal dust formation
- Can be used with a drilling machine, cordless screwdriver



Hub Grinder Type 1

- Universally usable
- Service life: approx. 100 vehicles

Art. No 5958 1

- Set consists of: plastic holder plus 3 discs
- Driven by a 9 mm Ø pin e.g. with electric drill

Art. No 5958 5

- Set consists of: alu holder plus 1 disc
- Driven by 1/2" square fixture e.g. impact wrench

Technical Data

	Type 1	Aluminium
Inner Ø:	60 mm	75 mm
Outer Ø:	160 mm	150 mm
Max. speed:	1,500 rpm	1,500 rpm



Article No.	Article Description	QTY
5958 1	HUB GRINDER TYPE 1	1
5958 1 1	PK(3)REPL.DISCS F.HUB GR.TYPE1	1
5958 5	HUB GRINDER ALU 1/2"DRIVE	1
5958 5 1	PK(3)REPL.GRIND.HUB.F.GRIN.ALU	1
5958 1 2	PK(4)VELCR.FOR HUB GRIND.TYPE1	1

Hub Grinder Type 2

- For vehicles with stud bolts
- Service life: approx. 50 vehicles
- Fixing hexagon SW 10

Art. No. 5958 2 4:

- Set consists of: 1 holder plus 5 discs of the size of 50 mm and 6 discs of the size of 40 mm

Technical Data

	Art.-No. 5958 22	Art.-No. 5958 21
Inner Ø:	15 mm	10 mm
Outer Ø:	50 mm	40 mm
Max. speed:	1,500 rpm	1,500 rpm



Article No.	Article Description	QTY
5958 2 4	HUB GRINDER SET TYPE 2 ALU	1
5958 2 1	PK(5)REP.DI.SM. F.HUB GR.TYPE2	1
5958 2 2	PK(5)REP.DI.BIG F.HUB GR.TYPE2	1
5958 2 5	HUB GRIND.T.2 ALU (NO ACCESS.)	1

Hub Grinder Type 3

- For BMW and vans
- Service life: approx. 100 vehicles

Art. No 5958 3:

- Set consists of: 1 holder plus 2 discs

Technical Data

Inner Ø:	86 mm
Outer Ø:	200 mm
Max. speed:	1,000 rpm



Article No.	Article Description	QTY
5958 3	HUB GRINDER TYPE 3	1
5958 3 1	PK(2)REPL.DISCS F.HUB GR.TYPE3	1

Nylon/Ceramic Grindin Fleece Red, GWT **FÖRCH*******

- open, flexible nylon grinding fleece with a ceramic grain
- with a stable fibre base for the use of an angle grinder without a supporting disc



Your Advantage / Benefit

- Ceramic abrasive grain for an improved removal performance and service life
- Enables a high grinding performance with little clogging only slight geometric changes to the surface
- Only minor geometrical changes to the surface
- Very high edge strength
- Low set-up and non-productive times, less production downtime

Application

- cleaning welds, metal surfaces and plastics
- removing rust, paint, varnish, priming, stone chip protection, sealants, tempering colours and joint fillers
- deburring cast parts



Technical Data

Art.-No.	Colour	Adapter mm	Operating Speed	
			max. rpm	ideal rpm
5959 115 4	red	22.23	12,000	7,000
5959 125 4	red	22.23	11,000	6,000

Article No.	Article Description	QTY
5959 115 4	NYL/CER GR.FL.GWT RED115MM 5*	e 10
5959 125 4	NYL/CER GR.FL.GWT RED125MM 5*	e 10

Related Products

- Angle Grinder 125 mm
Art.-No. 5328 4257



- Full Vision Goggle 'FÖRCH'
Art.-No. 5400 8



- Mechanics Gloves -
Nappa Leather
Art.-No. 5405 126 8-11



Nylon/Ceramic Grinding Fleece Red **FÖRCH*******

- open, flexible nylon grinding fleece with a ceramic grain
- removes rust, paint, varnish, priming, stone chip protection and sealants
- for use with the clamping mandrel in the drill



Technical Data

Art.-No.	Colour	Adapter mm	Operating speed	
			max. 1/min	ideal 1/min
5958 100 4	red	13	8.000	4.000
5958 150 4	red	13	5.350	3.000

Article No.	Article Description	QTY
5958 100 4	NYL/CER GRIND.FL.RED 100MM 5*	e 10
5958 150 4	NYL/CER GRIND.FL.RED 150MM 5*	e 10

Your Advantage / Benefit

- Ceramic abrasive grain for improved removal performance and service life
- Enables high grinding performance with little clogging
- Only slight geometric changes to the surface
- Very high edge strength
- Low set-up and non-productive times, less production downtime

Application

- Cleaning welds, metal surfaces and plastics
- Removing rust, paint, varnish, priming, stone chip protection, sealants, tempering colours and joint fillers
- Deburring cast parts



Related Products

- **Screw Driver**
Art.-No. 5325 570



- **Clamping Mandrel**
Art.-No. 5958 100 1



- **Full Vision Goggle 'FÖRCH'**
Art.-No. 5400 8



Abrasive Nylon Fleece GWT Red

- Removes rust, paint, primers, stone-chip protection and sealing material
- No removal of metal base
- Stable fibre base for use with angle grinder - use without backing pack
- Longer service life
- Improved cutting performance due to higher edge stability



Technical Data		
Art.-No.	Colour	Max. working speed rpm
5959 115 3	red	11,000
5959 125 3	red	9,800

Article No.	Article Description	QTY
5959 115 3	ABRAS.NYL.FLEECE GWT RED 115MM	e 10
5959 125 3	ABRAS.NYL.FLEECE GWT RED 125MM	e 10

Abrasive Nylon Fleece Red

- Removes rust, paint, new parts' primer, primer, stone-chip protection, and sealing material
- No removal of metal base
- Longer service life
- Improved cutting performance due to higher edge stability



Technical Data		
Art.-No.	Colour	Max working speed rpm
5958 100 3	red	8,000
5958 150 3	red	5,350

Article No.	Article Description	QTY
5958 100 3	ABRASIVE NYLON FLEECE RED100MM	e 10
5958 150 3	ABRASIVE NYLON FLEECE RED150MM	e 10

Mandrel for Abrasive Fleece

- Left-handed thread and support washers
- Shaft Ø: 7mm



Article No.	Article Description	QTY
5958 100 1	MANDREL FOR ABRAS.NYLON FLEECE	1

Grinding fleece GWT nylon black **ECO**

- Removes rust, paints, priming, stone chip protection and sealants
- No geometric alteration of the surface
- With a stable fibre base for the use of an angle grinder without a supporting disc



Technical Data		
Art.-No.	Colour	Max. working speed rpm
5959 115 1	black	11,000
5959 125 1	black	9,800

Article No.	Article Description	QTY
5959 115 1	ABR.NYL.FLEECE GWT BLACK 115MM	e 10
5959 125 1	ABR.NYL.FLEECE GWT BLACK 125MM	e 10

Grinding fleece nylon black **ECO**

- Removes rust, paints, priming, stone chip protection and sealants
- No geometric alterations of the surface



Technical Data		
Art.-No.	Colour	Max. working speed rpm
5958 100	black	8,000
5958 150	black	5,350

Article No.	Article Description	QTY
5958 100	ABRAS.NYLON FLEECE BLACK 100MM	e 10
5958 150	ABRAS.NYLON FLEECE BLACK 150MM	e 10

Abrasive Nylon Fleece FST

- Removes rust, paints, primers, stone-chip protection
- No removal of metal base
- For use with angle grinders
- Requires backing pad



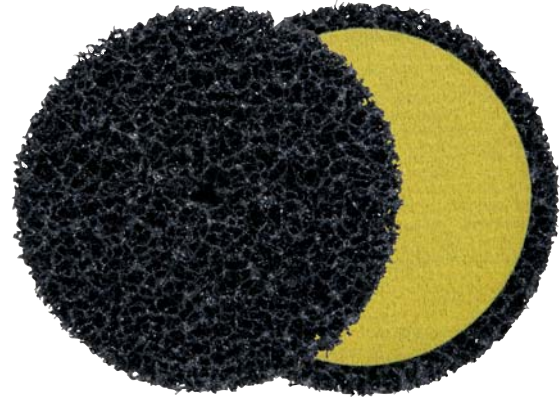
Technical Data	
Art.-No.	Max. working speed rpm
5959 115	11,000

Article No.	Article Description	QTY
5959 115	ABRAS. NYLON FLEECE FST 115MM	e 10

Grinding fleece nylon velcro

- For removing rust, undercoats, paint, rock fall protection and sealing masses
- The Velcro-backed supporting plate enables the cleaning and grinding of the whole surface
- Complete use of grinding Agent with high removal rate
- No geometric alterations of the surface
- For use with variable Speed angle grinders
- Only use with supporting plate

Technical Data		
Art.-No.	Operating speed	
	max. rpm	ideal rpm
5959 115 10	5,000	4,000
5959 150 10	5,000	2,000



Article No.	Article Description	QTY
5959 115 10	NYLON GR.FL.VELCRO 115MM	e 5
5959 150 10	NYLON GR.FL.VELCRO 150MM	e 5

Velcro grinding plate fix

- Attachment angle grinder M14 inner thread
- Attachment for nylon grinding Fleece Velcro Ø 10 mm shaft
- Dimension Ø: 110 / 149 mm

Article No.	Article Description	QTY
5934 115	VL-GRIND.PL.FIX M14 110MM	1
5934 150	VL-GRIND.PL.FIX M14 149MM	1



Round Brushes

- Material: Corrugated steel wire with diameter 0.35 mm
 - For the removal of rust, paint and dirt
 - Roughens, deburrs, insulates and polishes
 - Max. 6,000 rpm
- Art.-No. 5861 6 150 21 and Art.-No. 5861 6 150 30:**
- With reduction sleeve inner Ø 32 / 25.4 / 22.2 / 20 / 16 mm, 1/2"
- Art. No. 5861 6 200 20 and Art. No. 5861 6 200 30:**
- With reduction sleeve inner Ø 32 / 25.4 / 22.2 / 20 / 16 mm, 1/2"

Article No.	Article Description	QTY
5861 6 150 21	ROUND BRUSH 150X21X40MM	1
5861 6 150 30	ROUND BRUSH 150X30X40MM	1
5861 6 200 20	ROUND BRUSH 200X20X50MM	1
5861 6 200 30	ROUND BRUSH 200X30X50MM	1

(Diameter x width x drilled hole)



Grinding discs for double grinding machines

- for deburring, sharpening and regrinding of tools
- Bonding: Ceramic
- Grit type – fine: Fused aluminium oxide
- Grit type – coarse: Regular aluminium oxide
- for dry grinding
- with reducing sleeves internal Ø 25.4 mm, 20 mm and 16 mm

Application:

- **Fine:** hardened, unalloyed, low-alloy and high-alloy steels, HSS
- **Coarse:** unhardened, unalloyed and low-alloy steels

Art.-No. 5989 200 32 36 and 5989 200 32 80:

- with reducing sleeve inner Ø 32 mm

Art.-No. 5989 32 19 16:

- to reduce shank size
- Internal Ø 25.4 mm, 20 mm and 16 mm



Article No.	Article Description	QTY
5989 150 25 36	GRIND.WHEEL ROUGH150X25X32 P36	1
5989 150 25 80	GRIND.WHEEL FINE 150X25X32 P80	1
5989 150 36	GRIND.WHEEL ROUGH150X20X32 P36	1
5989 150 60	GRIND.WHEEL FINE 150X20X32 P80	1
5989 175 25 36	GRIND.WHEEL ROUGH175X25X32 P36	1
5989 175 25 80	GRIND.WHEEL FINE 175X25X32 P80	1
5989 200 32 36	GRIND.WHEEL ROUGH200X32X51 P36	1
5989 200 32 80	GRIND.WHEEL FINE 200X32X51 P80	1
5989 32 19 16	RED.BUSHES 32-16	1

(in mm: Ø x width x bore)

Truing Device for Grinding Wheels

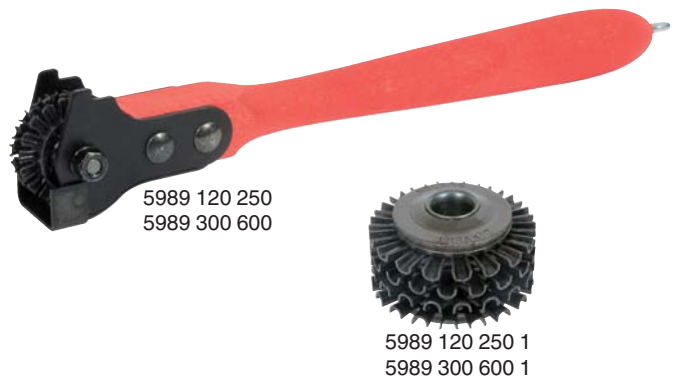
- The device enables a precise concentricity and a correct geometric form of the grinding wheel
- The truing helps to remove contaminants and blunted granular layer from the grinding body
- The truing wheels with U-shaped teeth run on a hardened and lubricated axle, for high rotational speed
- Suitable for normal corundum, special fused alumina and silicium carbide

Art.-No. 5989 120 250:

- For grinding wheels of Ø 120 - 250 and grain size 24 – 80

Art.-No. 5989 300 600:

- For grinding wheels of diameter Ø 300 - 600 and grain size 16 – 60



Technical Data				
Length mm	Width mm	Rolls Ø mm	Rolls width mm	Axle Ø mm
285	28	36	21	8
435	45	55	39	12
-	-	36	21	8
-	-	55	39	12

Article No.	Article Description	QTY
5989 120 250	TRUING DEVICE F.GRIND.WHEEL 40	1
5989 300 600	TRUING DEVICE F.GRIND.WHEEL 63	1
5989 120 250 1	REPL.ROLL FOR TRUING DEVICE 40	1
5989 300 600 1	REPL.ROLL FOR TRUING DEVICE 63	1

Jigsaw Blades

suitable for:

AtlasCopco, AEG, Bosch, DeWalt, Elu, Festo, Flex, Hitachi, Holz-Her, Kress, Mafell, Makita, Metabo, Protool

B-M 7/55W

Material:

- HSS-steel,teeth undulated set

Applications:

- Thin sheets and profiles of less than 1mm , coloured metal up to 2mm

Article No.	Article Description	QTY
5721 07 55	SP(10)KEYH.SAW BL.B-M 07/55W	1
5721P 07 55	HP(25)KEYH.SAW BL.B-M 07/55W	1



Technical Data

Thickness:	1.0 mm
Width:	7.8 mm
Tooth Pitch:	0.7 mm
Cutting edge length:	55 mm
Equivalents:	Bosch T118G, AEG 274652, Holz-Her ME50F, Holz-Her 17.4106 Metabo 23636



B-M 10/155 W-BI

Material:

- Bi metal, undulated teeth

Applications:

- Extra long blade for steel and sandwich materials

Article No.	Article Description	QTY
5721 10 155	SP(10)KEYH.SAW BL.B-M10/155-BI	1



Technical Data

Thickness:	1.0mm
Width:	9.8mm
Tooth Pitch :	1.0mm
Cutting edge length:	155mm
Equivalents:	-



B-M 12/55 W

Material: • HSS-steel, undulated teeth

Applications:

- Steel and sheets 1.5 to 3mm, glass fibre reinforced plastics up to 2mm, moulded materials, fabric-based laminate and isolating material up to 8mm

Article No.	Article Description	QTY
5721 12 55	(PK10) JIG-S BLADE 1,0/55 META	1
5721P 12 55	HP(25)KEYH.SAW BL.B-M12/55W	1



Technical Data

Thickness:	1.0mm
Width:	7.8mm
Tooth Pitch:	1.2mm
Cutting edge length:	55mm
Equivalents:	Bosch T118A, AEG 254063 Holz-Her AK50M, Holz-Her 17.4076 Metabo 23637



B-M 12/55W-BI

Material:

- Bi metal, undulated teeth

Applications:

- Steel and sheets 1.5 to 3mm, glass fibre reinforced plastics up to 2mm, moulded material, fabric-base laminate and insulating material up to 8mm

Article No.	Article Description	QTY
5721 12 55 1	SP(10)KEY.HO.S.BL.-M12/55W-BI	1
5721P 12 55 1	HP(25)KEY.HO.S.BL.-M12/55W-BI	1



Technical Data

Thickness:	1,0 mm
Width:	7,8 mm
Tooth Pitch:	1,2 mm
Cutting edge length:	55 mm
Equivalents:	Bosch T118AF, AEG 254063 Festo 486556, Metabo 23637/23971



B-M 12/105 W-BI

Material:

- Bi metal, wavy teeth

Application:

- Steels and sheets 1.5 to 4mm, isolating and sandwich materials

Article No.	Article Description	QTY
5721 12 105	SP(10)KEY.SAW BL.B-M12/105W-BI	1
5721P 12 105	HP(25)KEY.SAW BL.B-M12/105W-BI	1



Technical Data

Thickness:	1,0 mm
Width:	9,8 mm
Tooth Pitch:	1,2 mm
Cutting edge length:	105 mm
Equivalents:	Bosch T318AF, AEG 254064 Festo 486558, Metabo 23629



B-M 20/55W

Material: • HSS steel, undulated teeth

Applications:

- Non-ferrous metal, aluminium 3 – 10mm, mild steel, reinforced hard plastics 3 – 6mm, cement asbestos up to 10mm



Article No.	Article Description	QTY
5721 20 55	SP(10)KEY.SAW BL.B-M20/55W	1
5721P 20 55	HP(25)KEY.SAW BL.B-M20/55W	1

Technical Data

Thickness:	1.0 mm	
Width:	7.8 mm	
Tooth Pitch:	2.0 mm	
Cutting edge length:	55mm	
Equivalents:	Bosch T118B, AEG 254064 Holz-Her MEG50G, Holz-Her 17.4092 Metabo 23638	

B-M 20/105 W-BI

Material:

- Bi-metal, undulated

Applications:

- Non-ferrous metal, aluminium 3 – 10 mm, mild steel, reinforced hard plastics 3 – 6 mm



Article No.	Article Description	QTY
5721 20 105	SP(10)KEY.SAW BL.B-M20/105W-BI	1
5721P 20 105	HP(25)KEY.SAW BL.B-M20/105W-BI	1

Technical Data

Thickness:	1.0mm	
Width:	9.8mm	
Tooth Pitch:	2.0mm	
Cutting edge length:	105mm	
Equivalents:	Bosch T318BF, AEG 274653 Festo 486559	

B-M 30/75 G-BI

Material:

- Bi-metal, straight-set teeth

Applications:

- Steel, non-ferrous metal, aluminium and plastics



Article No.	Article Description	QTY
5721 30 75 2	SP(10)KEY.SAW BL.B-M30/75G-BI	1
5721P 30 75 2	HP(25)KEY.SAW BL.B-M30/75G-BI	1

Technical Data

Thickness:	1.0 mm	
Width:	7.8 mm	
Tooth Pitch:	3.0 mm	
Cutting edge length:	75 mm	
Equivalents:	Bosch T127DF, AEG 340014, Festo 486554, Metabo 23639	

B-U 25/18/75 V-BI

Material:

- Vario toothed, bi-metal, straight-set teeth

Applications:

- Steel, wood with metal residues, formwork board



Article No.	Article Description	QTY
5721 25 18 75	SP(10)KEY.SAW B.B-M25/18/75VBI	1
5721P 25 18 75	HP(25)KEY.SAW B.B-M25/18/75VBI	1

Technical Data

Thickness:	1.0mm	
Width:	9.6mm	
Tooth Pitch:	2.5–1.8mm	
Cutting edge length:	75mm	
Equivalents:	–	

B-U 25/18/105 V-BI

Material:

- Vario toothed, bi metal, straight-set teeth

Application:

- Steel, wood with metal residues, timber



Article No.	Article Description	QTY
5721 25 18 105	SP(10)KE.SAW B.B-U25/18/105VBI	1
5721P 25 18 105	HP(25)KE.SAW B.B-U25/18/105VBI	1

Technical Data

Thickness:	1.0mm	
Width:	9.6mm	
Tooth Pitch:	2.5–1.8mm	
Cutting edge length:	105mm	
Equivalents:	–	

B-H 135/50 KCS

Material:

- HAS steel, conical ground, angular edged teeth

Applications:

- Hardwood, softwood, plywood and wood fibre plates, also plastic coated up to 20mm, moulded material and cardboard – **for cutting curves** –



Article No.	Article Description	QTY
5721 135 50	SP(10)KE.SAW B.B-H135/50CS	1
5721P 135 50	HP(25)KE.SAW B.B-H135/50KCS	1

Technical Data	
Thickness:	1.25mm
Width:	4.7mm
Tooth Pitch:	1.35mm
Cutting edge length:	50mm
Equivalents:	Bosch T101AO, Festo 48 65 64

B-H 25/75 CS

Material:

- HAS steel, ground conically, angular edged teeth

Applications:

- Hardwood, softwood, glued wood, plywood and wood fibre plates up to 50 mm, various soft plastics up to 20 mm



Article No.	Article Description	QTY
5721 25 75	SP(10)KE.SAW B.B-H 25/75CS	1
5721P 25 75	HP(25)KE.SAW B.B-H25/75CS	1

Technical Data	
Thickness:	1.45 mm
Width:	7.8 mm
Tooth Pitch:	2.5 mm
Cutting edge length:	75 mm
Equivalents:	Bosch T101B, AEG 254061 Holz-Her H075F, Holz-Her 17.3967 Metabo 23634

B-H 25/75 CSUS

Material:

- HAS steel, ground conically, angular edged teeth, reversed cutting direction

Applications:

- Hardwood, softwood, plywood and wood fibre plates up to 50 mm, Formica and coated plates, plastics up to 30 mm

Attention: Use without pendulum stroke



Article No.	Article Description	QTY
5721 25 75 1	SP(10)KE.SAW B.B-H25/75CSUS	1
5721P 25 75 1	HP(25)KE.SAW B.B-H25/75CSUS	1

Technical Data	
Thickness:	1.45mm
Width:	7.8mm
Tooth Pitch:	2.5mm
Cutting edge length:	75mm
Equivalents:	Bosch T101BR, Metabo 23650

B-H 25/105 CSUS

- Material:**
- HAS steel, ground conically, angular edged teeth, reversed cutting direction

Applications:

- Hardwood, softwood, plywood and wood fibre plates up to 90 mm, Formica and coated plates, plastics up to 60 mm

Attention: Use without pendulum stroke



Article No.	Article Description	QTY
5721 25 105	SP(10)KE.SAW B.B-H25/105CSUS	1
5721P 25 105	HP(25)KE.SAW B.B-H25/105CSUS	1

Technical Data	
Thickness:	1.45mm
Width:	7.8mm
Tooth Pitch:	2.5mm
Cutting edge length:	105mm
Equivalents:	-

B-H 30/75 G

- Material:**
- HAS steel, teeth straight-set

Applications:

- Softwood up to 50mm, polystyrene, polyamide, soft plastics



Article No.	Article Description	QTY
5721 30 75	(PK10) JIG-S BLADE 3,0/75G WOO	1
5721P 30 75	HP(25)KE.SAW B.B-H30/75G	1

Technical Data	
Thickness:	1.27mm
Width:	9.8mm
Tooth Pitch:	3.0mm
Cutting edge length:	75mm
Equivalents:	Bosch T111C, AEG 254071 Holz-Her H075R, Metabo 23632

B-H 30/105 CS



Material:

- HAS steel, ground conically, angular edged teeth

Applications:

- For chipboard veneered on both sides, hardwood, softwood, glued woods up to 85mm

Article No.	Article Description	QTY
5721 30 105	SP(10)KE.SAW B.B-H30/105CS	1
5721P 30 105	HP(25)KE.SAW B.B-H30/105CS	1

Technical Data

Thickness:	1.45mm
Width:	7.8mm
Tooth Pitch:	3.0mm
Cutting edge length:	105mm
Equivalents:	Bosch T301CD



B-H 40/75 GS



Material:

- HAS steel, teeth straight-set and angular edged

Applications:

- Hardwood and softwood up to 50mm

Article No.	Article Description	QTY
5721 40 75	SP(10)KE.SAW B.B-H40/75GS	1
5721P 40 75	HP(25)KE.SAW B.B-H40/75GS	1

Technical Data

Thickness:	1.27 mm
Width:	7.8 mm
Tooth pitch:	4.0 mm
Cutting edge length:	75 mm
Equivalents:	Bosch T144D, Festo 486563 Holz-Her HW75K, Holz-Her 17.3983 Metabo 23649



B-H 40/75 GS-BI



Material:

- Bi-metal, teeth straight-set and angular edged

Application:

- Hardwood and softwood up to 50mm – **long service life** –

Article No.	Article Description	QTY
5721 40 75 1	SP(10)KE.SAW B.B-H40/75GS-BI	1
5721P 40 75 1	HP(25)KE.SAW B.B-H40/75GS-BI	1

Technical Data

Thickness:	1.27mm
Width:	7.8mm
Tooth Pitch:	4.0mm
Cutting edge length:	75mm
Equivalents:	Bosch T144DF, Festo 486563



B-H 40/75 KGS



- Material:** • HAS steel, teeth straight-set and angular edged

Applications:

- Hardwood and softwood, chipboard up to 50mm
– **For curved cuttings** –

Article No.	Article Description	QTY
5721 40 75 2	SP(10)KE.SAW B.B-H40/75KGS	1
5721P 40 75 2	HP(25)KE.SAW B.B-H40/75KGS	1

Technical Data

Thickness:	1.27mm
Width:	6.5mm
Tooth Pitch:	4.0mm
Cutting edge length:	75mm
Equivalents:	Bosch T244D, Festo 486563 Holz-Her HW75K, Metabo 23649



B-H 40/75 CS



Material:

- HAS steel, ground conically, angular edged teeth

Applications:

- Hardwood, softwood, glued wood, chipboard, plywood and wood fibre plates as well as soft plastics up to 50 mm

Article No.	Article Description	QTY
5721 40 75 3	SP(10)KE.SAW B.B-H40/75CS	1
5721P 40 75 3	HP(25)KE.SAW B.B-H40/75CS	1

Technical Data

Thickness:	1.35 mm
Width:	7.8 mm
Tooth Pitch:	4.0 mm
Cutting edge length:	75 mm
Equivalents:	Bosch T101D, AEG 274351 Holz-Her HO75G, Holz-Her 17.3975 Metabo 23635



B-H 40/75 DCS

Material:

- HAS steel, ground conically and angular edged

Application:

- Hardwood and softwood, plywood and wood fibre plates, coated kitchen and working boards as well as soft plastics up to 50mm- **Very straight and fine cuts -**



Article No.	Article Description	QTY
5721 40 75 4	SP(10)KE.SAW B.B-H40/75DCS	1
5721P 40 75 4	HP(20)KE.SAW B.B-H40/75DCS	1

Technical Data

Thickness:	1.6mm
Width:	7.8mm
Tooth Pitch:	4.0mm
Cutting edge length:	75mm
Equivalents:	Bosch T101DP, Festo 486549 Goldblatt



B-H 40/75 KRGS

Material:

- HAS steel, teeth straight-set and angular edged, toothed both-sided

Application:

- Hardwood and softwood, plywood and wood fibre plates, soft plastics up to 50mm- **For curved cuttings -**



Article No.	Article Description	QTY
5721 40 75 5	SP(10)KE.SAW B.B-H40/75KRGS	1
5721P 40 75 5	HP(25)KE.SAW B.B-H40/75KRGS	1

Technical Data

Thickness:	1.27mm
Width:	6.5mm
Tooth Pitch:	4.0mm
Cutting edge length:	75mm
Equivalents:	AEG 265654



B-H 40/75 DGCS

Material:

- HAS steel ground conically, teeth straight-set and angular edged

Application:

- Hardwood and softwood, glued woods, chipboard, plywood, wood fibre plates up to 60mm- **Fast cuts -**



Article No.	Article Description	QTY
5721 40 75 6	SP(10)KE.SAW B.B-H40/75DGCS	1
5721P 40 75 6	HP(20)KE.SAW B.B-H40/75DGCS	1

Technical Data

Thickness:	1.7mm
Width:	7.8mm
Tooth Pitch:	4.0mm
Cutting edge length:	75mm
Equivalents:	Festo 486551, Goldblatt



B-H 40/105 DGCS

Material:

- HAS steel, conical ground, teeth straight-set and angular edged

Application:

- Hardwood and softwood, glued woods, chipboard, plywood, wood fibre plates up to 85mm - **Fast cuts-**



Article No.	Article Description	QTY
5721 40 105	SP(10)KE.SAW B.B-H40/105DGCS	1
5721P 40 105	HP(20)KE.SAW B.B-H40/105DGCS	1

Technical Data

Thickness:	1.7mm
Width:	7.8mm
Tooth Pitch:	4.0mm
Cutting edge length:	105mm
Equivalents:	Festo 486552, Goldblatt



B-H 40/155 GS

Material:

- HAS steel, teeth straight-set and angular edged

Application:

- Universal saw blade for wood types- **Special length -**



Article No.	Article Description	QTY
5721 40 155	SP(10)KE.SAW B.B-H40/155GS	1

Technical Data

Thickness:	1.27mm
Width:	9.7mm
Tooth Pitch:	4.0mm
Cutting edge length:	155mm
Equivalents:	-



B-HM 11/55

Material: • HAS steel with carbid bar

Applications:

- Straight cuts in steel, non-ferrous metal 1.5 – 3 mm, stainless steel 1 – 2 mm



Article No.	Article Description	QTY
5721 11 55	SP(2)KE.SAW B.B-HM11/55	1

Technical Data			
Thickness:	1.3mm		
Width:	9.3mm		
Tooth Pitch:	1.1mm		
Cutting edge length:	55mm		
Equivalents:	Bosch T118AHM		

B-HM 14/55

Material: • HAS steel with carbid bar

Applications:

- Straight cuts in steel, non-ferrous metal 2 – 5mm, stainless steel 2 – 4mm



Article No.	Article Description	QTY
5721 14 55	SP(2)KE.SAW B.B-HM14/55	1

Technical Data			
Thickness:	1.3mm		
Width:	9.3mm		
Tooth Pitch:	1.4mm		
Cutting edge length:	55mm		
Equivalents:	Bosch T118EHM		

B-HM 42/75

Material: • HAS steel, fitted with carbid metal

Applications:

- GRP products, hardwood and gas concrete



Article No.	Article Description	QTY
5721 42 75	SP(2)KE.SAW B.B-HM42/75	1

Technical Data				
Thickness:	1.9mm			
Width:	7.8mm			
Tooth Pitch:	4.2mm			
Cutting edge length:	75mm			
Equivalents:	Bosch T141HM, Festo 486561			

B-HM 42/105

Material:

- HAS steel, fitted carbid metal

Applications:

- GRP products, hardwood and gas concrete



Article No.	Article Description	QTY
5721 42 105	SP(2)KE.SAW B.B-HM42/105	1

Technical Data				
Thickness:	1.9mm			
Width:	7.8mm			
Tooth Pitch:	4.2mm			
Cutting edge length:	105mm			
Equivalents:	Bosch T341HM, Festo 486560			

B-DWS 54/155 insulating material

Material:

- HCS/ CV serrated

Scope:

- Insulating materials
- Rubber
- Paper
- Polystyrene
- Leather
- Carpet



Article No.	Article Description	QTY
5721 5 54 155	SP(5)KE.SAW B-W 54/155	1
5721 10 54 155	SP(10)KE.SAW B-W 54/155	1

Technical Data					
Blade thickness:	1.27 mm				
Blade width:	9.7 mm				
Serration spacing:	5.4 mm				
Serrated length:	155 mm				

Jig Saw Blades Fein

F-H 30/65 CS

Material:

- HAS steel, blade ground conically, angular edged teeth

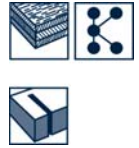
Applications:

- Hardwood and softwood, glued woods, plywood and wood fibre plates up to 30mm, different soft plastics up to 15mm



Technical Data

Thickness:	1.35mm
Width:	7.0mm
Tooth Pitch:	3.0mm
Cutting edge length:	65mm
Equivalents:	Fein 63503037018



Article No.	Article Description	QTY
5721 30 65	SP(10)KEYH.BLF-H 30/65CS	1

F-M 12/55 W-BI

Material: • Bi-metal, teeth undulated

Applications:

- Steel and sheet metal of 1.5 – 3mm, glass fibre reinforced plastics up to 2mm, moulded material, fabric-base laminate and isolating material up to 8mm



Technical Data

Thickness:	1.0mm
Width:	7.9mm
Tooth Pitch:	1.2mm
Cutting edge length:	55mm
Equivalents:	Fein 6350303511



Article No.	Article Description	QTY
5721 12 55 2	SP(10)KEYH.BL.F-M 12/55W-BI	1

Jigsaw Blades Combi Pack Classic

- The 5 most frequently used jigsaw blades in our product range
- Saw blades ready at hand for many types of cuttings or materials
- High-grade blade types guarantee highest quality cuts
- Can also be used as basic equipment

Article No.	Article Description	QTY
5721P 1	KEYH.SAW BL.COMBI-PACK CLASSIC	1

Equipment		Blade quantity
Blade type / Art.-No.		
5721 25 75		4
5721 40 75 3		4
5721 25 75 1		4
5721 40 75 5		4
5721 12 55 1		4



Jigsaw blades **VAROBOXX** Mini

- 75 parts
- Assortment in high-grade VAROBOXX Mini
- Jigsaw-assortment for wood, metal and plastic

Contents

Art.-No.	Art.Description	Quantity
5721P 12 26 75	HP(25)KEYH.BL.B-H PROGR.METAL	1
5721P 20 30 90	HP(25)KEYH.BL.B-H PROGR.WOOD	1
5721P 25 18 75	HP(25)KEY.SAW B.B-M25/18/75VBI	1
9002 1	VAROBOXX MINI EMPTY	1



Article No.	Article Description	QTY
9002 5721	VAROBOX MINI JIGSAW BLADES	1

FÖRCH Recipro-Box Universal

- Extremely resistant and robust box made of 2K-plastic
- 30/28/26 Recipro saw blades sorted in the box – always a fitting saw blade for many cutting types or materials
- Best cutting quality guaranteed due to high-quality blade types
- Can be used as a basic equipment

Article No.	Article Description	QTY
5734 1	RECI-SAW BLADE BOX UNIVERSAL	1
5734 2	RECI-SAW BLADE BOX WINDOW	1

Contents Art.-No. 5734 1:

- 8x Art.-No. 5734 42 130: REC. H. 42/130
- 10x Art.-No. 5734 31 25 130: REC. U. 31/25/130 V-BI
- 10x Art.-No. 5734 18 130: REC. M. 18/130 BI

Contents Art.-No. 5734 2:

- 16x Art.-No. 5734 42 130 2: REC. U. 42/130 Aggressor Uni
- 10x Art.-No. 5734 18 130: REC. M. 18/130 BI



5734 1



5734 2

Jigsaw, Recipro Saw Blades **PROGRESSOR**

Next generation saw blades

- Universally applicable for thin to thick materials progressive tooth pitch
- Both high cutting speed and long service life

B-H Progressor - Wood

Material: • HCS steel, ground conically and with edged teeth (special grinding)

Applications:

- All woods and plate materials 2 – 65 mm



Article No.	Article Description	QTY
5721 20 30 90	SP(10)KEYH.BL.B-H PROGR.WOOD	1
5721P 20 30 90	HP(25)KEYH.BL.B-H PROGR.WOOD	1

Technical Data

Thickness: 1.50 mm
 Width: 9.5 mm
 Tooth Pitch: 2.0 – 3.0 mm
 Cutting edge length: 90 mm
 Equivalents: Bosch T234X



B-H Progressor - Metal

Material: • HSS steel, side-set teeth

Applications:

- For metal, sheet metal 1.5 – 10 mm, non-ferrous metal 1.5 – 20 mm
- Stainless steel 1.5 – 3 mm, plastics, also glass fibre reinforced, up to 30 mm



Article No.	Article Description	QTY
5721 12 26 75	SP(10)KEYH.BL.B-M PROGR.METAL	1
5721P 12 26 75	HP(25)KEYH.BL.B-H PROGR.METAL	1

Technical Data

Thickness: 1.0 mm
 Width: 8.6 mm
 Tooth Pitch: 1.2 – 2.6 mm
 Cutting edge length: 75 mm
 Equivalents: Bosch T123X



REC. M. Progressor - Metal

Material: • Bi-metal, side-set teeth

Applications:

- For metal, sheets 2 – 8 mm
- Pipes up to 2", non-ferrous metals 2 – 15 mm
- Glass fibre reinforced plastics 2 – 30 mm
- Extra thin version; ideal for battery powered reciprocating saws



Article No.	Article Description	QTY
5734 15 34 130	SP(10)SHEET REC.M.PROGR.META	1
5734P 15 34 130	HP(25)SH.REC.M PROGRESSOR META	1

Technical Data

Thickness: 0.9 mm
 Width: 19 mm
 Tooth pitch: 1.45 – 3.4 mm
 Cutting edge length: 130 mm
 Equivalents: -



REC. U. Progressor - Uni

Material: • Bi-metal, side-set teeth

Applications:

- Wood with nail residues, aluminium profile 3 – 18 mm
- Plastics, GRP
- Extra thin version, ideal for battery powered reciprocating saws



Article No.	Article Description	QTY
5734 22 46 130	SP(10)SHEET REC.M.PROGR.UNI	1
5734P 22 46 130	HP(25)SH.REC.M PROGRESSOR UNI	1

Technical Data

Thickness: 0.9 mm
 Width: 19 mm
 Tooth Pitch: 2.2 – 4.6 mm
 Cutting edge length: 130 mm
 Equivalents: -



Recipro Saw Blades **AGGRESSOR**

extra **POWERFUL** - extra wide - extra **SNAPPY** - " extremely service life"

- the latest saw blade line from the american rescue- and demolition teams
- especially 2by2-gear teething => avoids premature break out of the teeth.

REC. M. 25/32/130 Aggressor



Material: • Bi-metal, side-set teeth, 2-by-2

Applications:

- Steel-plates 4 – 10 mm, massive tubes and profiles 20 – 100 mm, ideal for tube cutting devices

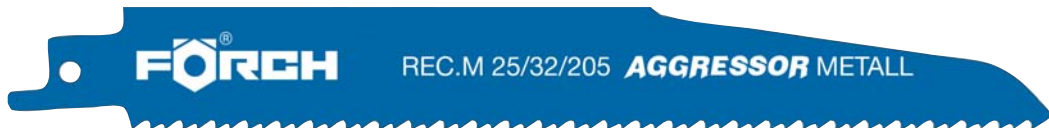
Article No.	Article Description	QTY
5734 25 32 130	SP(10)SHEET REC.M25/32/130 AGG	1
5734P 25 32 130	HP(25)SH.REC.M25/32/130 AGGRES	1

Technical Data

Thickness	1.6 mm
Width	22 mm
Tooth Pitch:	2.5 - 3.2 mm
Cutting edge length	130 mm
Equivalents:	Bosch S920CF



REC. M. 25/32/205 Aggressor



Material: • Bi metal, side-set teeth, 2-by-2

Applications:

- Steel-plates 4 – 10 mm, massive tubes and profile 20 – 175 mm, ideal for tube cutting devices

Article No.	Article Description	QTY
5734 25 32 205	SP(10)BL.REC.M25/32/205 AGGRE.	1
5734P 25 32 205	HP(25)SH.REC.M25/32/205 AGGRES	1

Technical Data

Thickness:	1.6 mm
Width:	22 mm
Tooth Pitch:	2.5 / 3.2 mm
Cutting edge length:	205 mm
Equivalents:	Bosch, S1120CF



REC. H. 42/130 Aggressor Uni



Material: • Bi metal, side-set teeth

Applications:

- Wood with nail residues, wall cut-outs
- Wood with metal up to 7.5 cm, rescue and demolition works, refurbishment of old buildings

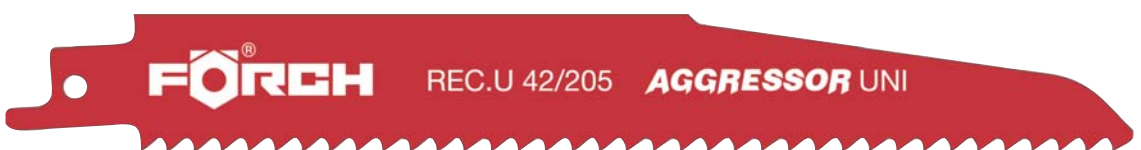
Article No.	Article Description	QTY
5734 42 130 2	SP(10)BL.REC.442/130/ AGGRESS.	1
5734P 42 130 2	HP(25)SH.REC.U42/130 AGGRESSOR	1

Technical Data

Thickness:	1.6 mm
Width:	22 mm
Tooth Pitch:	4.2 mm
Cutting edge length:	130 mm
Equivalent:	Bosch, S610DF



REC. H. 42/205 Aggressor Uni



Material: • Bi metal

Applications:

- Wood with nail residues, wall cut-outs
- Wood with metal up to 15 cm, rescue and demolition works, refurbishment of old building

Article No.	Article Description	QTY
5734 42 205	SP(10)BL.REC.442/205 AGGRESS.	1
5734P 42 205	HP(25)SH.REC.U42/205 AGGRESSOR	1

Technical Data

Thickness:	1.6 mm
Width:	22 mm
Tooth Pitch:	4.2 mm
Cutting edge length:	205 mm
Equivalent:	Bosch, S1110DF



Recipro Saw Blades

- Extremely break resistant, for highest demands
- Suitable for: Atlas Copco, Black & Decker, Bosch, DeWalt, Elu, Fein, Flex, Hitachi, Makita, Metabo, Milwaukee, Pater Cable, Rems, Rockwell, Roller, SkilRoller, Skil

REC. M. 105/130 BI



Material:

- Bi metal, teeth undulated

Applications:

- Sheet metal and steel thicker than 1.2 mm

Article No.	Article Description	QTY
5734 105 130	SP(10)SH.REC.M 105/130 BI	1
5734P 105 130	HP(25)SH.REC.M 105/130 BI	1

Technical Data

Thickness:	1.0 mm
Width:	19 mm
Tooth Pitch:	1.05 mm
Cutting edge length:	130 mm
Equivalents:	Bosch S 922 AF, Makita 003015 Flex 200743, Rockw. 12433 Milford 88179



REC. M. 14/80 BI



Material:

- Bi metal, teeth undulated

Applications:

- Steel 1.5 – 2.5 mm

Article No.	Article Description	QTY
5734 14 80	SP(10)SH.REC.M 14/80 BI	1
5734P 14 80	HP(25)SH.REC.M 14/80 BI	1

Technical Data

Thickness:	1.0 mm
Width:	19 mm
Tooth pitch:	1.4 mm
Cutting edge length	80 mm
Equivalents:	AEG 354795, Bosch S 552 EF Flex 200719, Makita 04896



REC. M. 14/130 BI



Material:

- Bi metal, teeth undulated

Applications:

- Steel 1.5 – 2.5 mm

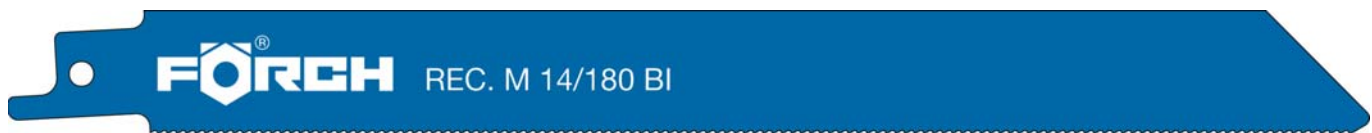
Article No.	Article Description	QTY
5734 14 130	SP(10)SH.REC.M 14/130 BI	1
5734P 14 130	HP(25)SH.REC.M 14/130 BI	1

Technical Data

Thickness:	1.0 mm
Width:	19 mm
Tooth Pitch:	1.4 mm
Cutting edge length:	130 mm
Equivalents:	Bosch S 922 EF, Makita 0030006 Flex 200735, Rockw. 12454



REC. M. 14/180 BI



Material:

- Bi metal, teeth undulated

Applications:

- Steel 1.5 – 2.5 mm

Article No.	Article Description	QTY
5734 14 180	SP(10)SH.REC.M 14/180 BI	1
5734P 14 180	HP(25)SH.REC.M 14/180 BI	1

Technical Data

Thickness:	1.0 mm
Width:	19 mm
Tooth Pitch:	1.4 mm
Cutting edge length:	180 mm
Equivalent:	Bosch S 1122 EF, Makita 003009 Flex 200735, Metabo 31483 Rockwell 12400



REC. M. 18/130 BI



Material:

- Bi metal, undulated teeth

Applications:

- Steel from 2.5 – 3.5 mm and non-ferrous metals

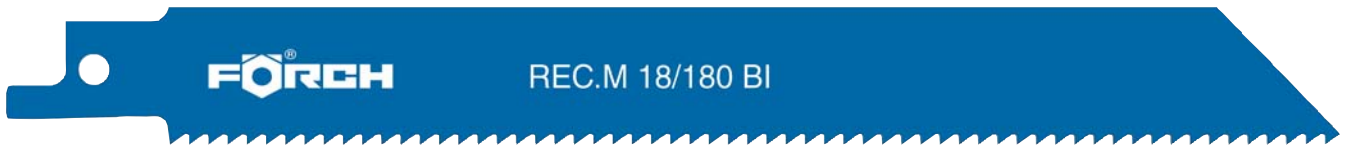
Article No.	Article Description	QTY
5734 18 130	SP(10)SH.REC.M 18/130 BI	1
5734P 18 130	HP(25)SH.REC.M 18/130 BI	1

Technical Data

Thickness:	1.0 mm
Width:	19 mm
Tooth Pitch:	1.8 mm
Cutting edge length:	130 mm
Equivalents:	Bosch S 922 BF, Makita 003013 Flex 200727, Hitachi 2



REC. M. 18/180 BI



Material: • Bi metal, teeth undulated

Applications:

- Steel 2.5 – 3.5 mm and non-ferrous metals

Article No.	Article Description	QTY
5734 18 180	SP(10)SH.REC.M 18/180 BI	1
5734P 18 180	HP(25)SH.REC.M 18/180 BI	1

Technical Data

Thickness:	1.0 mm
Width:	19 mm
Tooth Pitch:	1.8 mm
Cutting edge length:	180 mm
Equivalent:	Bosch S 1122 BF, Makita 003008 Flex 217190, Metabo 31485 Hitachi 1



REC.M. 25/260 BI



Material:

- Bi metal, teeth side set

Applications:

- Steel from 3.5 – 5 mm and non-ferrous metals

Article No.	Article Description	QTY
5734 25 260	SP(10)SH.REC.M 25/260 BI	1
5734P 25 260	HP(25)SH.REC.M 25/260 BI	1

Technical Data

Thickness:	1.0 mm
Width:	19 mm
Tooth Pitch:	2.5 mm
Cutting edge length:	260 mm
Equivalents:	Makita 003018, Flex 201928 Metabo 31475, Milford 88208



REC. M. 25/18/80 V-BI



Material: • Bi metal, side-set teeth, Vario toothing (Combo)

Applications:

- Steel from 2.5 mm, wood of all kinds with metal residues

Article No.	Article Description	QTY
5734 25 18 80	SP(10)SH.REC.M 25/18 80 V-BI	1
5734P 25 18 80	HP(25)SH.REC.M 25/18 80 V-BI	1

Technical Data

Thickness:	1.0 mm
Width:	19 mm
Tooth Pitch:	2.5 / 1.8 mm
Cutting edge length:	80 mm
Equivalent:	–



REC. M. 25/18/130 V-BI



Material:

- Bi-metal, side-set teeth, Vario toothing (Combo)

Applications:

- Steel from 2.5 mm, wood of all kinds with metal residues

Article No.	Article Description	QTY
5734 25 18 130	SP(10)SH.REC.M 25/18/130 V-BI	1
5734P 25 18 130	HP(25)SH.REC.M 25/18/130 V-BI	1

Technical Data

Thickness:	1.0mm
Width:	19mm
Tooth Pitch:	2.5 / 1.8mm
Cutting edge length:	130mm
Equivalent:	AEG 318127, Bosch S 922 VF



REC. M. 25/18/180 V-BI



Material: • Bi-metal, side-set teeth, Vario toothing (Combo)

Applications:

- Steel of 2.5 mm, wood of all kinds with metal residues

Article No.	Article Description	QTY
5734 25 18 180	SP(10)SH.REC.M 25/18/180 V-BI	1
5734P 25 18 180	HP(25)BL.REC.M.25/ 18/180V-BI	1

Technical Data

Thickness:	1.0 mm
Width:	19 mm
Tooth Pitch:	2.5 / 1.8 mm
Cutting edge length:	180 mm
Equivalent:	Milford 88217



REC. U. 31/25/130 V-BI



Material: • Bi-metal, side-set teeth, Vario toothing (Combo)

Applications:

- All kinds of wood with metal residues, steel from 3 mm

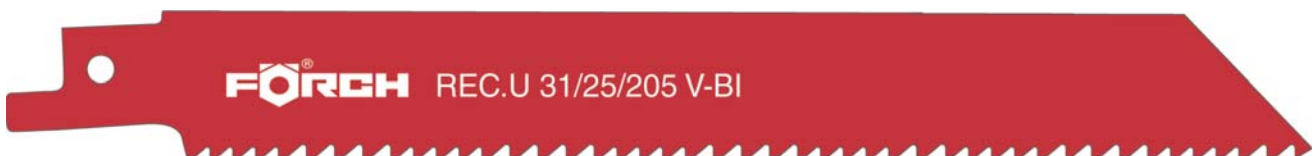
Article No.	Article Description	QTY
5734 31 25 130	SP(10)SH.REC.U 31/25/130 V-BI	1
5734P 31 25 130	HP(25)SH.REC.U 31/25/130 V-BI	1

Technical Data

Thickness	1.0 mm
Width	19 mm
Tooth Pitch	3.1 / 2.5 mm
Cutting edge length	130 mm
Equivalent:	-



REC. U. 31/25/205 V-BI



Material:

- Bi-metal, side-set teeth, Vario toothing (Combo)

Applications:

- Wood of all kinds with metal residues, steel from 3 mm
– Especially for pallet repairs –

Article No.	Article Description	QTY
5734 31 25 205	SP(10)SH.REC.U 31/25/205 V-BI	1
5734P 31 25 205	HP(25)SH.REC.U 31/25/205 V-BI	1

Technical Data

Thickness:	1.0 mm
Width:	19 mm
Tooth Pitch:	3.1 / 2.5 mm
Cutting edge length:	205 mm
Equivalent:	-



REC. U. 42/130 BI



Material: • Bi metal, side-set teeth

Applications:

- Wood with nail residues
- Window dismantling –

Article No.	Article Description	QTY
5734 42 130 1	SP(10)SH.REC.U 42/130 BI	1
5734P 42 130 1	HP(25)SH.REC.U 42/130 BI	1

Technical Data

Thickness:	1.27 mm
Width:	19 mm
Tooth Pitch:	4.2 mm
Cutting edge length:	130 mm
Equivalent:	–



REC. U. 63/42/130 V-BI



Material:

- Bi-metal, side-set teeth, Vario toothing (combo)

Applications:

- Wood of all kinds with metal residues, wood with nail residues, wooden window dismantling

Article No.	Article Description	QTY
5734 63 42 130	SP(10)SH.REC.U 63/42/130 V-BI	1
5734P 63 42 130	HP(25)SH.REC.U 63/42/130 V-BI	1

Technical Data

Thickness:	1.27 mm
Width:	19 mm
Tooth Pitch:	6.3 / 4.2 mm
Cutting edge length:	130 mm
Equivalent:	–



REC. U. 63/42/190 V-BI



Material:

- Bi-metal, side-set teeth, Vario toothing (combo)

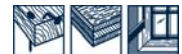
Applications:

- Wood of all kinds with metal residues, wood with nail residues, wooden window dismantling

Article No.	Article Description	QTY
5734 63 42 190	SP(10)SH.REC.U 63/42/190 V-BI	1
5734P 63 42 190	HP(25)SH.REC.U 63/42/190 V-BI	1

Technical Data

Thickness:	1.27 mm
Width:	19 mm
Tooth Pitch:	6.3 / 4.2 mm
Cutting edge length:	190 mm
Equivalent:	–



REC. H. 25/130



Material:

- HAS steel, side-set teeth

Applications:

- Finely toothed standard saw blade for wood

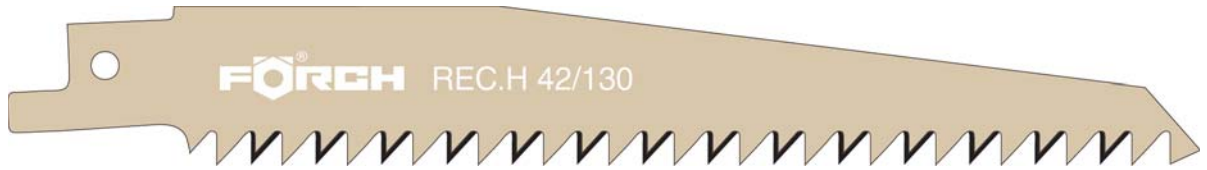
Article No.	Article Description	QTY
5734 25 130	SP(10)SH.REC.H 25/130	1
5734P 25 130	HP(25)SH.REC.H 25/130	1

Technical Data

Thickness:	1.05 mm
Width:	19 mm
Tooth Pitch:	2.5 mm
Cutting edge length:	130 mm
Equivalents:	B&D 40103, Bosch S811H Makita 003020, Rockw. 12463



REC. H. 42/130



Material:

- HAS steel, side-set teeth, sharpened

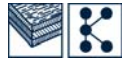
Applications:

- Wood saw blade, fast cuts

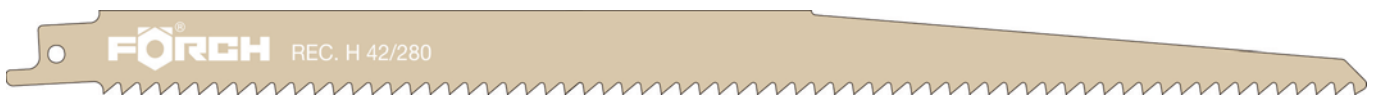
Article No.	Article Description	QTY
5734 42 130	SP(10)SH.REC.H 42/130	1
5734P 42 130	HP(25)SH.REC.H 42/130	1

Technical Data

Thickness:	1.27 mm
Width:	19 mm
Tooth Pitch:	4.2 mm
Cutting edge length:	130 mm
Equivalent:	Bosch S641D



REC. H. 42/280



Material:

- HAS steel, side-set teeth

Applications:

- Fast cuts in wood without nail residues, plastics and plasterboard plates

Article No.	Article Description	QTY
5734 42 280	SP(10)SH.REC.H 42/280	1
5734P 42 280	HP(25)SH.REC.H 42/280	1

Technical Data

Thickness:	1.27 mm
Width:	19 mm
Tooth Pitch:	4.2 mm
Cutting edge length:	280 mm
Equivalents:	B&D 40099, Bosch S1344D Flex 201936, Rockw 12403 Milford 88010



REC. HG 5/63/205



Material:

- HAS steel, side-set teeth

Applications:

- Special saw blade for live wood

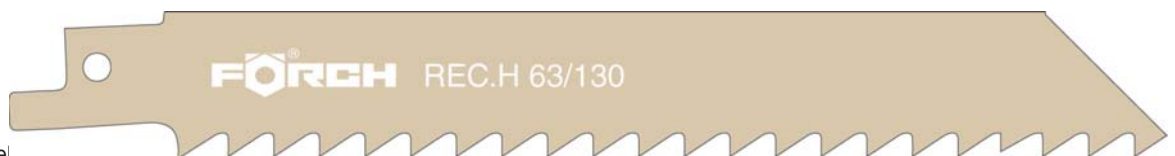
Article No.	Article Description	QTY
5734 5 63 205	SP(10)SH.REC.HG 5/63/205	1
5734P 5 63 205	HP(25)SH.REC.HG 5/63/205	1

Technical Data

Thickness:	1.27 mm
Width:	19 mm
Tooth Pitch:	5.0 / 6.3 mm
Cutting edge length:	205 mm
Equivalent:	Bosch S 1531 L



REC. H. 63/130



Material: • HAS steel, side-set teeth

Applications:

- Universal saw blade for wood of all kinds

Article No.	Article Description	QTY
5734 63 130	SP(10)SH.REC.H 63/130	1
5734P 63 130	HP(25)SH.REC.H 63/130	1

Technical Data

Thickness:	1.05 mm
Width:	19 mm
Tooth Pitch:	6.3 mm
Cutting edge length:	130 mm
Equivalent:	-



REC. M. 30/20/130 MZ-BI



Material:

- Bi metal, M-toothing
- High cutting speed due to sawing with forward and backward stroke, low vibration

Applications:

- Steel, iron, steel pipes, wood with metal residues from 2.5 mm material thickness

Article No.	Article Description	QTY
5734 30 20 130	SP(10)SH.REC.MZ 30/20/130MZ-BI	1
5734P 30 20 130	HP(25)SH.REC.MZ 30/20/130MZ-BI	1

Technical Data					
Thickness:	1.0 mm				
Width:	19 mm				
Tooth Pitch:	3.0 / 2.0 mm				
Cutting edge length:	130 mm				
Equivalent:	-				

REC. M. 30/20/180 MZ-BI



Material:

- Bi metal, M-toothing
- High cutting speed due to sawing with forward and backward stroke, low vibration

Applications:

- Steel, iron, steel pipes, wood with metal residues from 2.5 mm material thickness

Article No.	Article Description	QTY
5734 30 20 180	SP(10)SH.REC.MZ 30/20/180MZ-BI	1
5734P 30 20 180	HP(25)SH.REC.MZ 30/20/180MZ-BI	1

Technical Data					
Thickness:	1.0 mm				
Width:	19 mm				
Tooth Pitch:	3.0 / 2.0 mm				
Cutting edge length:	180 mm				
Equivalent:	-				

REC. M. 30/20/260 MZ-BI



Material:

- Bi metal, M-toothing
- High cutting speed due to sawing with forward and backward stroke, low vibration

Applications:

- Steel, iron, steel pipes, wood with metal residues from 2.5 mm material thickness

Article No.	Article Description	QTY
5734 30 20 260	SP(10)SH.REC.M 30/20/260MZ-BI	1
5734P 30 20 260	HP(25)SH.REC.M 30/20/260MZ-BI	1

Technical Data					
Thickness:	1.0 mm				
Width:	19 mm				
Tooth Pitch:	3.0 / 2.0 mm				
Cutting edge length:	260 mm				
Equivalent:	-				

Recipro Saw Blades

- Suitable for Rems-Tiger-Saws, Roller-Recipro Saw

REC M 25/18/125 BI



Material:

- Bi-metal, teeth undulated

Applications:

- Pipes up to 2" Ø, wall thickness up to 3 mm, all metals

Technical Data

Thickness:	1.0 mm
Width:	25 mm
Tooth Pitch:	1.8 mm
Cutting edge length:	125 mm
Equivalent:	Rems 561005



Article No.	Article Description	QTY
5734 18 125	SP(8)SH.REC.M 18/125 BI	1

REC M 25/18/175 BI



Material:

- Bi-metal, teeth undulated

Applications:

- Pipes up to 4" Ø, wall thickness up to 3 mm, all metals

Technical Data

Thickness:	1.0 mm
Width:	25 mm
Tooth Pitch:	1.8 mm
Cutting edge length:	175 mm
Equivalent:	Rems 561003



Article No.	Article Description	QTY
5734 18 175	SP(8)SH.REC.M 18/175 BI	1

REC M 25/18/275 BI



Material:

- Bi-metal, teeth undulated

Applications:

- Pipes up to 6" Ø, wall thickness up to 3 mm, all metals

Technical Data

Thickness:	1.0 mm
Width:	25 mm
Tooth Pitch:	1.8 mm
Cutting edge length:	275 mm
Equivalent:	Rems 561004



Article No.	Article Description	QTY
5734 18 275	SP(8)SH.REC.M 18/175 BI	1

REC M 32/115 BI




Material:

- Bi-metal, teeth undulated

Applications:

- Pipes up to 2" Ø, wall thickness from 4 mm, all metals

Technical Data	
Thickness:	1.57 mm
Width:	25 mm
Tooth Pitch:	3.2 mm
Cutting edge length:	115 mm
Equivalent:	Rems 561001



Article No.	Article Description	QTY
5734 32 115	SP(8)SH.REC.M 32/115 BI	1

REC M 32/175 BI



Material:

- Bi-metal, teeth undulated

Applications:

- Pipes up to 4" Ø, wall thickness from 4 mm, all metals

Technical Data	
Thickness:	1.57 mm
Width:	25 mm
Tooth Pitch:	3.2 mm
Cutting edge length:	175 mm
Equivalent:	Rems 561002



Article No.	Article Description	QTY
5734 32 175	SP(8)SH.REC.M 32/175 BI	1

REC. DWS 80/205 Insulation



Material:

- HCS/CV Serrated blade

Applications:

- Mineral wool insulation
- Polystyrene, Styrodur, foams (EPS/PUR)
- Rubber, paper, leather and carpet

Article No.	Article Description	QTY
5734 80 205	SP(5)BL.REC.DWS INSULAT.80/205	1

Technical Data	
Sheet strength:	1.27 mm
Sheet breadth:	19 mm
Flute pitch:	8 mm
Fluted length:	205 mm

REC. DWS 80/280 Insulation



Material: • HCS/CV Serrated blade

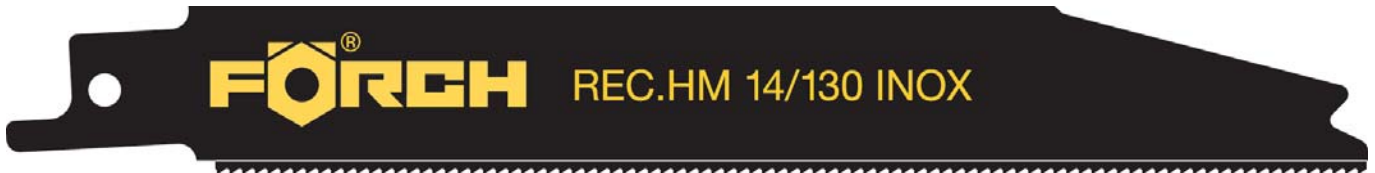
Applications:

- Mineral wool insulation
- Polystyrene, Styrodur, foams (EPS/PUR)
- Rubber, paper, leather and carpet

Article No.	Article Description	QTY
5734 80 280	SP(5)BL.REC.DWS INSULAT.80/280	1

Technical Data	
Sheet strength:	1.27 mm
Sheet breadth:	19 mm
Flute pitch:	8 mm
Fluted length:	280 mm

REC. HM 14/130 Inox



Material:

- HAS steel with carbide bar

Applications:

- Stainless steel pipes up to 80mm Ø, stainless steel plates from 2 – 4 mm

Article No.	Article Description	QTY
5734 14 130 1	SP(2)BL-REC.HM 14/130 INOX	1

Technical Data	
Thickness:	1.01 mm
Width:	19 mm
Tooth Pitch:	1.4 mm
Cutting edge length:	130 mm
Equivalent:	-

REC. M. 180 HM-Cast



Material:

- Coated with carbide granulate

Applications:

- Cast iron (SML), ceramics and GRP-products

Article No.	Article Description	QTY
5734 180	SP(10)SH.REC.M 180 HM-CASTING	1

Technical Data	
Thickness:	2.2 mm
Width:	19 mm
Tooth Pitch:	-
Cutting edge length:	180 mm
Equivalent:	-


Saw Blade for Gas Concrete – Carbide Fitted



- Suitable for all recipro saws
- Stable and smooth operation
- Total length: 460 mm

Article No.	Article Description	QTY
5734 180 385	TA(1)BL.REC.HM180/385 GAS CON.	1

Technical Data	
Sheet strength:	1.6 mm
Sheet breadth:	45 mm
Tooth pitch:	18 mm
Toothed length:	380 mm
Fits:	-



REC. M 25/130 BI **ECO**



Material:

- Bi-metal, straight-set teeth

Applications:

- Steel from 2.5 mm, wood with remains of nails or concrete

Article No.	Article Description	QTY
5734 25 130 1	RECIPRO.SAW.BL.ECO M 25/130 BL	100

Technical Data

Sheet strength:	0.9 mm
Sheet breadth:	19 mm
Tooth pitch:	2.5 mm
Toothed length:	130 mm
Fits:	-



REC. M 25/180 BI **ECO**



Material:

- Bi-metal, straight-set teeth

Applications:

- Steel from 2.5 mm wood with remains of nails or concrete, pallet repair

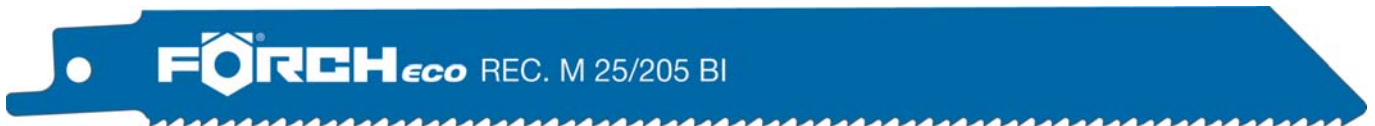
Article No.	Article Description	QTY
5734 25 180	RECIPRO.SAW.BL.ECO M 25/180 BL	100

Technical Data

Sheet strength:	0.9 mm
Sheet breadth:	19 mm
Tooth pitch:	2.5 mm
Toothed length:	180 mm
Fits:	-



REC.M 25/205 BI **ECO**



Material:

- Bi-metal, straight-set teeth

Applications:

- Steel from 2.5 mm wood with remains of nails or concrete, pallet repair

Article No.	Article Description	QTY
5734 25 205	RECIPRO.SAW.BL.ECO M 25/205 BI	100

Technical Data

Sheet strength:	0.9 mm
Sheet breadth:	19 mm
Tooth pitch:	2.5 mm
Toothed length:	205 mm
Fits:	-



REC. U 42/130 BI **ECO**



Material:

- Bi-metal, straight-set teeth

Applications:

- Steel from 2.5 mm wood with residue of nails, window dismantling

Article No.	Article Description	QTY
5734 42 130 3	RECIPRO.SAW.BL.ECO U 42/130 BL	100

Technical Data

Sheet strength:	0.9 mm
Sheet breadth:	7 – 19 mm
Tooth pitch:	4.2 mm
Toothed length:	130 mm
Fits:	-



Junior Hacksaw

- Twist-free die cast aluminium, with soft handle
- Replacement and tensioning of saw blade by nut at handle side

Article No.	Article Description	QTY
5701 145 2	JUNIOR HACKSAW	1

- Scope of delivery:**
- 1x original PUK saw blade, 145mm, 32 tpi



Hacksaw Frame - Light

- Ergonomically formed metal hacksaw, twist-free die cast aluminium
- Non-slipping two-component safety soft handle
- For 13mm width saw blades

Article No.	Article Description	QTY
5701 300 2	HACKSAW LIGHT	1

- Scope of delivery:**
- HSS bi-metal saw blade, 300mm, 24 tpi



Professional Hacksaw Frame

- Heavy, ergonomical, professional metal hacksaw, twist-free die cast aluminium
- Non-slipping two-component safety soft handle
- Quick release fixture with spring tension
- High blade tension possible at 0 and 55 degrees
- For 13mm width saw blades

Article No.	Article Description	QTY
5701 300 3	HACKSAW PROFESSIONAL	1

- Scope of delivery:**
- HSS bi-metal saw blade, 300mm, 24 tpi



Traditional - Hacksaw Frame with Wooden Handle

- Traditional version
- For 13/25mm width saw blades

Article No.	Article Description	QTY
5701 300	HACKSAW WOOD HANDLE 300MM	1

- Scope of delivery:**
- HSS bi-metal saw blade, 300mm, 24 tpi



Metal Hacksaws

- Dipped insulation according to DIN EN 60900

Art.-No. 5705 250:

- With plastic screw tighten the saw blade

Art.-No. 5705 280:

- Brackets made from flat iron 10 × 5mm
- With insulated twist grip to tighten the saw blade

Art.-No. 5705 460:

- Heavy duty design
- With plastic screws to tighten the saw blade

Art.-No. 5705 520:

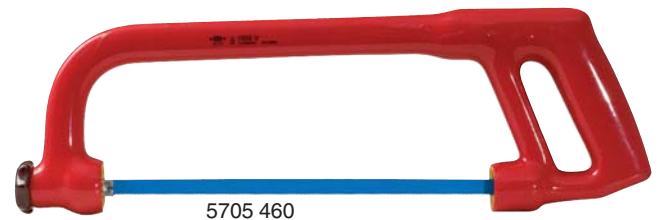
- Brackets made from flat iron 10 × 5mm
- Heavy duty design
- With insulated twist grip to tighten the saw blade



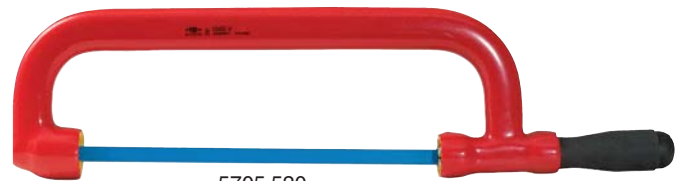
5705 250



5705 280




5705 460



5705 520

Technical Data

Art.-No.	L1 mm	L2 mm	L3 mm
5705 250	265.0	145.0	100.0
5705 280	280.0	150.0	80.0
5705 460	450.0	340.0	140.0
5705 520	520.0	330.0	130.0



Article No.	Article Description	QTY
5705 250	METAL HACKSAW 250MM	1
5705 280	METAL HACKSAW 280MM	1
5705 460	METAL HACKSAW 460MM	1
5705 520	METAL HACKSAW 520MM	1

HSS - Bi Metal Hacksaw Blades



- Hand saw blade HSS Bi-Metal
- Professional quality
- High performance bi-metal version hand saw blade
- High cutting performance and long service life, resistant to breakage
- Available in 24 teeth per inch or 32 tpi
- Width: 13 mm
- Length: 300 mm



Article No.	Article Description	QTY
5700 300	HSS BI-MET.HACKS.BL.24TPI300MM	10 H
5700 300 12	HSS BI MET.HACK.BL.32TPI 300MM	10 H
5700P 1	(50)SAW BL.HSS-BI-M.300MM24TPI	1

HSS Hacksaw Blade, Double-cutting Edge

- High-performance hand saw blade made of reliable high-speed cutting steel
- High cutting performance and long service life
- Width: 25mm
- Length: 300 mm



Article No.	Article Description	QTY
5700 300 10	HSS DOUBLE-CUT.EDGE 24TPI300MM	10 f

HCS Hacksaw Blade, Double-cutted Edge

- Inductively hardened teeth
- 24 tpi
- Width: 25mm
- Length: 300 mm



Article No.	Article Description	QTY
5700 300 11	HCS DOUBLE-CUT.EDGE 24TPI300MM	10 f

Junior Saw Blade - Metal

- Original PUK version
- 32 teeth per inch
- Width: 7 mm
- Length: 145 mm

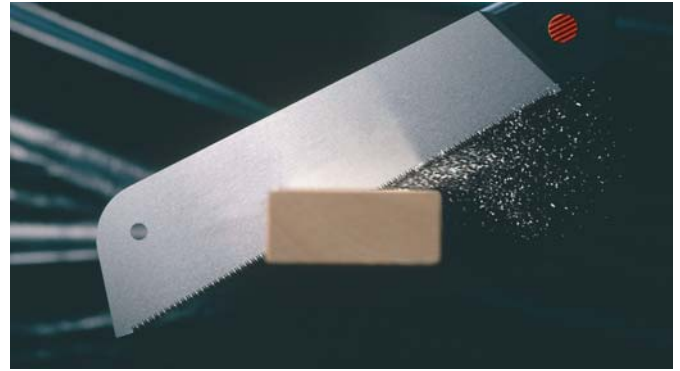


Article No.	Article Description	QTY
5700 145	PUK JUN.HACK.SAW BL.32TPI145MM	12

Japanese Saws with Two Component Safety Handle

One handle compatible with all 4 pull saw blades

- Cutting on the pull stroke enables:
 - Accurate angled cutting
 - Especially thin cuts
- Extra thin carbon steel saw blade:
 - Fast, clean cuts
 - Flush cuts possible
- Inductively hardened cutting teeth:
 - Doubles cutting speed
 - Service life up to three times as long



Pull-Stroke Saw, Extra Fine

- Suitable for fine cutting, plywood, thin PVC, ABS, hardwood and very fine and narrow cuts
- Blade length: 270 mm
- Tooth pitch: 1.5 mm
- 17 teeth per inch



Article No.	Article Description	QTY
5704 17 270	PULL-STR.SAW EXTRA FINE 270MM	1 s
5704 17 270 1	REPL.PU.-STR.SAW EXT.FINE270MM	1

Pull-Stroke Saw, Fine

- Suitable for all general work on wood of all kinds, PVC, ABS etc.
- Blade length: 300 mm
- Tooth pitch: 1.8 mm
- 14 teeth per inch



Article No.	Article Description	QTY
5704 14 300	PULL-STROKE SAW FINE 300MM	1
5704 14 300 1	REPL.BLA.P.STROKE S.FINE 300MM	1

Pull-Stroke Saw, Rough

- Suitable for carpenter's work, beams, rafters, stringers, PVC, ABS etc.
- Blade length: 380 mm
- Tooth pitch: 2.5 mm
- 10 teeth per inch



Article No.	Article Description	QTY
5704 10 380	PULL-STROKE SAW ROUGH 380MM	1
5704 10 380 1	REP.BL.P.STROKE SAW ROUGH380MM	1

Branch And Pruning Pull-Stroke Saw

- Suitable for branches, firewood, timber and natural wood
- Blade length: 300 mm
- Tooth pitch: 2.8 mm
- 9 teeth per inch



Article No.	Article Description	QTY
5704 9 300	BRANCH AND PRUNING SAW 300MM	1
5704 9 300 1	REPL.BRANCH AND PRUN.SAW 300MM	1

Garden Folding Saw

- Suitable for branches, firewood, timber and natural wood
- Blade length: 195 mm
- Tooth pitch: 2.8 mm
- 9 teeth per inch



Article No.	Article Description	QTY
5704 28 195 2	GARDEN FOLDING SAW	1
5704 28 195 3	REPL.BLAD.F.GARD.FOLD.SAW195MM	1

Universal Saw with Double-cutting Edge

- Suitable for furniture work, flush cuts, door-frames, staircases, plywood and general fine and rough cuttings
- Blade length: 240 mm
- Tooth pitch: 2.8 / 1.5 mm
- 9 / 17 progressive teeth per inch



Article No.	Article Description	QTY
5704 28 240	UNIVERS.SAW DOUBLE BLADE 240MM	1
5704 28 240 1	REPL.UNI. DOUBLE BLADE 240MM	1

Micro Saw

- Suitable for bars, profiles, model making and thin materials
- Blade length: 185 mm
- Tooth pitch: 1.2 mm
- 22 teeth per inch



Article No.	Article Description	QTY
5704 22 185	MICRO SAW 185MM	1
5704 22 185 1	REPLACE.BLADE MICRO SAW 185MM	1

Japanese Saws Set 1+3

Article No.	Article Description	QTY
5704P 1	JAPANESE SAWS SET 1+3	1

Contents:

- 1x Art.-No. 5704 9 300: Branch And Pruning Pull-Stroke Saw
- 1x Art.-No. 5704 17 270: Pull-Stroke Saw, Extra Fine
- 1x Art.-No. 5704 14 300: Pull-Stroke Saw, Fine
- 1x Art.-No. 5704 1: two-component handle suitable for all pull-stroke saw blades



Precision Saw Carpenter

- Precision saws with rattan wood handle
- Fine cut, flexible blade
- No back for working in hard to reach spots
- Blade length: 265 mm
- 16 teeth per inch



Article No.	Article Description	QTY
5704 16 265	PRECISION SAW CARPENTER 265MM	1
5704 16 265 1	REPL.BLADE P.SAW CARPENT.265MM	1

Trim Saw for Mitre Box

- Fine-toothed saw for fine cuts and use in the mitre box
- For soft and hard wood, PVC, ABS and PP
- Blade length: 270 mm
- 17 teeth per inch



Article No.	Article Description	QTY
5704 17 270 2	TRIM SAW FOR MITRE BOX 270MM	1

Trim Saw Roofer

- Specially for working on the roof to saw off roof battens
- Ergonomically shaped handle



Article No.	Article Description	QTY
5704 17 300	TRIM SAW ROOFER 300MM	1

Trim Saw Insulation

- Specially developed for sawing insulation material such as mineral wool, glass and stone wool, EPS, XPS, polystyrene
- Saw blade with undulated cutting edge whereby the penetration into the material is made easier and there is less dust



Article No.	Article Description	QTY
5704 17 480	TRIM SAW INSULATION 480MM	1

Fine Saw - Straight

- Length: 250 mm
- For fine cuts in wood
- High-quality
- Coated beechwood handle
- Saw teeth straight-set and edged



Article No.	Article Description	QTY
5702 250 2	FINE SAW - STRAIGHT 250MM	1 s

Fine Saw - Cranked and Adjustable

- Similar to straight fine saw, but with cranked and adjustable handle



Article No.	Article Description	QTY
5702 250	FINE SAW CRANKED+ADJUST.250MM	1 s

Mitre Box

- Length: 300 mm
- Made of beechwood



Article No.	Article Description	QTY
5702 1	MITRE BOX 300MM	1

All-Purpose Saw

- With plastic handle
- Length: 300 mm
- Round tothing at end of blade
- Inductively hardened teeth
 - Extremely long service life
- For sawing of wood and plastics



Article No.	Article Description	QTY
5702 300	ALL PURPOSE SAW 300MM	1 s

Universal Handsaw

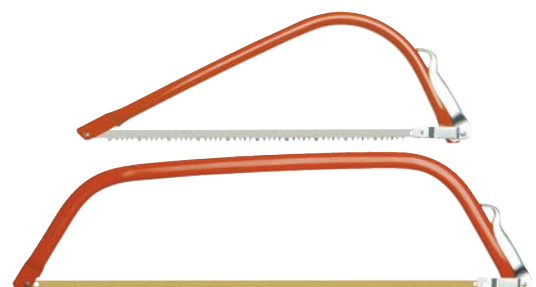
- With anti-slip two-components plastic handle
- Length: 400 mm
- Teeth are ground and inductively hardened
- For ripping and cross-cutting wood of all kinds



Article No.	Article Description	QTY
5702 400	UNIVERSAL HAND SAW 400MM	e 6

Bow Saw

- High-quality, coated steel tube frame
- Blades are easy to change
- For sawing timber, fire, and green wood



Article No.	Article Description	QTY
5702 530	BOW SAWS 530MM	1
5702 530 1	SAW BLADE FOR BOW SAWS 530MM	1
5702 762	BOW SAW 762MM	1
5702 762 1	SAW BLADE FOR BOW SAW 762MM	1

Gardener's Saws

- With safety quiver interchangeable hard chrome-plated high performance saw blade (Japanese shape)
- Comfortable grip
- Saw blade length: 300 mm
- Weight: 355 g



Article No.	Article Description	QTY
4759 6	GARDENER'S SAW	1

Carbide Constructional Saw

- With PTFE anti-adhesive coating - no clamping and jamming
- Saws all cellular concrete stones
- 34 tpi – every second tooth is assembled with hard metal
- Very long service life and easy cutting



Article No.	Article Description	QTY
5702 720	CARB.CON.SAW 34TPI/HM17 720MM	1

Gas Concrete Handsaw

- Longer service life due to inductively hardened teeth
- With PTFE anti-adhesive coating - no jamming and seizing
- Cuts lightweight bricks and plates, cellular concrete stones,



Article No.	Article Description	QTY
5702 740	GAS CONCRETE SAW 740MM	1

Plasterboard Saw

- With beechwood handle
- Length: 175 mm
- Inductively hardened teeth
 - Extremely long service life



Article No.	Article Description	QTY
5702 175	PLASTERBOARD SAW 175MM	1 d

Jab saw

- For cutting plasterboard, gypsum fibreboard, wood and other panelling materials
- Offset toothing, induction-hardened and smoothed, beech wood handle
- Length: 300 mm



Article No.	Article Description	QTY
5702 300 1	JAB SAW 300MM	1

HSS-Bi-Metal Cylinder Cutter

- HSS-Bi metal cylinder cutter can be used for hand drills, box column drills and lathes
- The teeth of HSS-Bi-Metal crown cutter is precisely milled with narrow tolerances
- Optimises cutting of clean, round holes in cast iron, steel, copper, bronze, aluminium, plastics, plasterboard and wood
- Max. cutting depth: 38 mm
- Vario toothing
 - Alternating tpi 4.2 + 6.3 mm (6/4 inch)
 - Low vibration and approx. 45 % higher cutting performance
 - Triple service life
- Reinforced base plate (32 mm Ø with 2-hole interlock)
 - Prevents jiggling and stripping of the thread
 - More thread turns and improved running and precise cutting
- Use Förch Drilling and Cutting Fluid when working metals except cast iron. Enables a clean cut and extends the service life of the cylinder cutter.
- Delivery without mounting shank and centre drill



Article No.	Article Description	QTY
5750 14	BI-METAL CYLINDER CUTTER 14	1
5750 16	BI-METAL CYLINDER CUTTER 16	1
5750 17	BI-METAL CYLINDER CUTTER 17	1
5750 19	BI-METAL CYLINDER CUTTER 19	1
5750 21	BI-METAL CYLINDER CUTTER 21	1
5750 22	BI-METAL CYLINDER CUTTER 22	1
5750 24	BI-METAL CYLINDER CUTTER 24	1
5750 25	BI-METAL CYLINDER CUTTER 25	1
5750 27	BI-METAL CYLINDER CUTTER 27	1
5750 29	BI-METAL CYLINDER CUTTER 29	1
5750 30	BI-METAL CYLINDER CUTTER 30	1
5750 32	BI-METAL CYLINDER CUTTER 32	1
5750 33	BI-METAL CYLINDER CUTTER 33	1
5750 35	BI-METAL CYLINDER CUTTER 35	1
5750 37	BI-METAL CYLINDER CUTTER 37	1
5750 38	BI-METAL CYLINDER CUTTER 38	1
5750 40	BI-METAL CYLINDER CUTTER 40	1
5750 41	BI-METAL CYLINDER CUTTER 41	1
5750 44	BI-METAL CYLINDER CUTTER 44	1
5750 46	BI-METAL CYLINDER CUTTER 46	1
5750 48	BI-METAL CYLINDER CUTTER 48	1
5750 51	BI-METAL CYLINDER CUTTER 51	1
5750 52	BI-METAL CYLINDER CUTTER 52	1
5750 54	BI-METAL CYLINDER CUTTER 54	1
5750 56	BI-METAL CYLINDER CUTTER 56	1
5750 57	BI-METAL CYLINDER CUTTER 57	1
5750 59	BI-METAL CYLINDER CUTTER 59	1
5750 60	BI-METAL CYLINDER CUTTER 60	1
5750 64	BI-METAL CYLINDER CUTTER 64	1
5750 65	BI-METAL CYLINDER CUTTER 65	1
5750 67	BI-METAL CYLINDER CUTTER 67	1
5750 68	BI-METAL CYLINDER CUTTER 68	1
5750 70	BI-METAL CYLINDER CUTTER 70	1
5750 73	BI-METAL CYLINDER CUTTER 73	1
5750 76	BI-METAL CYLINDER CUTTER 76	1
5750 79	BI-METAL CYLINDER CUTTER 79	1
5750 83	BI-METAL CYLINDER CUTTER 83	1
5750 86	BI-METAL CYLINDER CUTTER 86	1
5750 89	BI-METAL CYLINDER CUTTER 89	1
5750 92	BI-METAL CYLINDER CUTTER 92	1
5750 95	BI-METAL CYLINDER CUTTER 95	1
5750 98	BI-METAL CYLINDER CUTTER 98	1
5750 102	BI-METAL CYLINDER CUTTER 102	1
5750 105	BI-METAL CYLINDER CUTTER 105	1
5750 111	BI-METAL CYLINDER CUTTER 111	1
5750 114	BI-METAL CYLINDER CUTTER 114	1
5750 121	BI-METAL CYLINDER CUTTER 121	1
5750 127	BI-METAL CYLINDER CUTTER 127	1
5750 140	BI-METAL CYLINDER CUTTER 140	1
5750 152	BI-METAL CYLINDER CUTTER 152	1

(mm Ø)

Technical Data:

Soft-metal	Tool-steel	Iron	Brass	Aluminium
580	300	400	790	900
550	275	365	730	825
500	250	330	665	750
460	230	300	600	690
425	210	280	560	630
390	195	260	520	585
370	185	245	495	555
350	175	235	470	525
325	160	215	435	480
300	150	200	400	450
285	145	190	380	425
275	140	180	360	410
260	135	175	345	390
250	125	165	330	375
240	120	160	315	360
230	115	150	300	345
220	110	145	290	330
210	105	140	280	315
195	95	130	260	295
190	95	125	250	285
180	90	120	240	270
170	85	115	230	255
165	80	110	220	245
160	80	105	210	240
150	75	100	200	225
150	75	100	200	225
140	70	95	190	220
140	70	95	190	220
135	65	90	180	205
130	65	85	175	200
130	65	85	170	195
130	65	85	165	190
125	60	80	160	185
120	60	80	160	180
115	55	75	150	170
110	55	70	140	165
105	50	70	140	155
100	50	65	130	150
95	45	65	130	145
95	45	60	120	140
90	45	60	120	135
90	45	60	120	135
85	40	55	110	130
80	40	55	110	120
80	40	50	100	120
75	35	50	100	105
70	35	45	90	95
65	30	40	85	90
60	30	35	80	85
55	25	35	75	75

Cylinder Cutter - Centre Drill

Art.-No. 5751 2: • Quick-change adapter with solid shank, prevents crushing in the drill chuck



Article No.	Article Description	QTY
5751 3	SHANK AS 3	1
5751 2	SHANK AS 2	1

Technical Data	
For hole saw Ø [mm]	Shank Ø [mm]
14 - 30	9.5/hexagon
32 - 152	11.0/hexagon

HSS Center Drills

Art.-No. 5751 80:
• Suitable for Art.-No. 5751 3 and 5751 2

Article No.	Article Description	QTY
5751 80	CENTRE DRILL 6.35X80MM	1
5751 105	CENTRE DRILL 6.35X105MM	1

(Length mm)



Extension

• Suitable for Art.-No. 5751 2 shank AS 2

Article No.	Article Description	QTY
5751 300	EXTENSION 300MM	1

(Length mm)



Ejection Spring

• For ejecting the cut-out work piece

Article No.	Article Description	QTY
5751 10	EJECTION SPRING	1



HSS Bi-Metal Cylinder Cutter Counterbore

- HSS Bi-Metal Cylinder Cutter Counterbore for mounting cavity wall sockets with exact flush surfaces
- The ideal tool-set for electricians
- Hardened counterbore
- Recommended for processing chipboards, wood core plywood, plastic panels, plasterboard and beams

Article No.	Article Description	QTY
5750 68 1	HSS-BI-MET.CY.CUT.COUNTERBO.68 (mm Ø)	1

- Contents:**
- 1x HSS Bi-Metal Cylinder Cutter Counterbore Ø 68 mm
 - 1x Special shank (not available separately) with hexagon SW 13 mm
 - 1x Counterbore
 - 1x Ejection spring

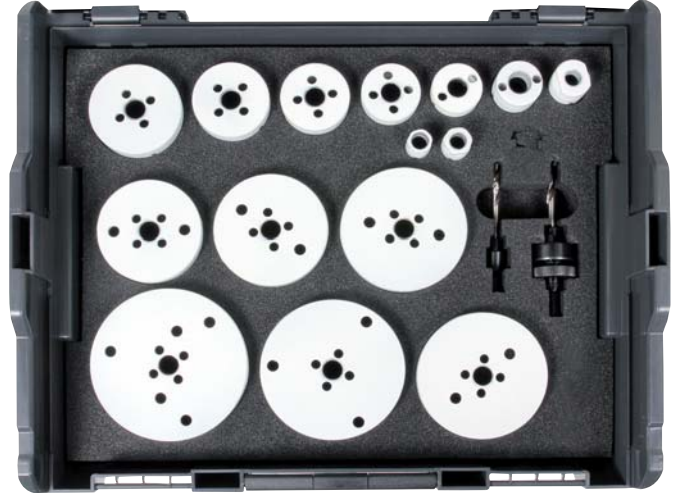


Cylinder Saws HSS bi-metal **VAROBOXX**

- In VAROBOXX 2
- Max. cutting depth: 38 mm
- Application in cast iron, steel, copper, bronze, aluminum, plastics, plasterboard and wood
- 1 each cylinder saw Ø 19, 22, 30, 35, 40, 44, 51, 60, 68, 76, 83, 92, 95, 102 and 114 mm
- 1 each shank AS 2 (Ø 19 - 30 mm) and AS 3 (Ø 35 - 114 mm)
- 1 centre drill

Contents:

Article No.	Article Description	Quantity
5750 19	BI-METAL CYLINDER CUTTER 19	1
5750 22	BI-METAL CYLINDER CUTTER 22	1
5750 30	BI-METAL CYLINDER CUTTER 30	1
5750 35	BI-METAL CYLINDER CUTTER 35	1
5750 40	BI-METAL CYLINDER CUTTER 40	1
5750 44	BI-METAL CYLINDER CUTTER 44	1
5750 51	BI-METAL CYLINDER CUTTER 51	1
5750 60	BI-METAL CYLINDER CUTTER 60	1
5750 68	BI-METAL CYLINDER CUTTER 68	1
5750 76	BI-METAL CYLINDER CUTTER 76	1
5750 83	BI-METAL CYLINDER CUTTER 83	1
5750 92	BI-METAL CYLINDER CUTTER 92	1
5750 95	BI-METAL CYLINDER CUTTER 95	1
5750 102	BI-METAL CYLINDER CUTTER 102	1
5750 114	BI-METAL CYLINDER CUTTER 114	1
5751 2	SHANK AS 2	1
5751 3	SHANK AS 3	1
5751 80	CENTRE DRILL 6.35X80MM	1
9003 2	VAROBOXX SIZE:2 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 2 5	CYLINDER SAW INSERT VAROBOXX2	1



Article No.	Article Description	QTY
9003 5750	VAROBOXX CYLINDER SAWS 19-114	1

HSS Bi-Metal Cylinder Cutter Assortment Electro 1

- Each 1x cylinder cutters Ø 19, 22, 29, 35, 38, 44, 51, 57, and 68 mm
- Each 1x centre drill AS 2 and AS 3

Article No.	Article Description	QTY
5759 19 68	ASS.CYLINDER CUTTER ELECTRO 1	1



HSS Bi-Metal Cylinder Cutter Assortment Electro 2

- Each 1x cylinder cutters Ø 22, 29, 35, 38, 44, 51 and 68 mm
- Each 1x centre drill AS 2 and AS 3

Article No.	Article Description	QTY
5759 22 68	ASS.CYLINDER CUTTER ELECTRO 2	1



HSS Bi-Metal Cylinder Saw Assortment Universal

- Each 1x cylinder cutters Ø 19, 22, 29, 35, 38, 44, 51, 57, 68, 76, 83, 92, 95, 105 and 114 mm
- Each 1x centre drill AS 2 and AS 3

Article No.	Article Description	QTY
5759 19 114	ASS.CYLINDER CUTTER UNIVERSAL	1



HSS Bi-Metal Cylinder Cutter Assortment Sanitary

- Each 1x cylinder cutters Ø 19, 22, 29, 35, 38, 44, and 57 mm
- Each 1x centre drill AS 2 and AS 3

Article No.	Article Description	QTY
5759 19 57	ASS.CYLINDER CUTTER SANITARY	1



HSS Bi-Metal Cylinder Saw Assortment Maintenance

- Each 1x cylinder cutters Ø 22, 25, 29, 32 und 38 mm
- 1 centre drill AS 3 for hole saws Ø 14–30 mm
- 1 centre drill AS 2 for hole saws Ø 32–152 mm

Article No.	Article Description	QTY
5759 22 38	ASS.CYLIND. CUTTER MAINTENANCE	1



Holesaw XL

- Used mainly for pipe lead-throughs in hard insulating foam, wood, plaster, and plastic
- For carpenters, roofers, prefabricated house builders, plumbers etc.
- Robust drilling body and Bi-metal design guarantee a long service life
- Total length / cutting depth: 430 mm / 300 mm

Article No.	Article Description	QTY
5750 4 86	BI-METAL-HOLE SAW XL 86	1
5750 4 111	BI-METAL-HOLE SAW XL 111	1
5750 4 130	BI-METAL-HOLE SAW XL 130	1
5750 4 152	BI-METAL-HOLE SAW XL 152	1
5750 4 170	BI-METAL-HOLE SAW XL 170	1
5750 4 200	BI-METAL-HOLE SAW XL 200	1



Scope of delivery:

- 1x hexagonal adapter SW 13

Auger Drill Bit 20 x 460

- To be used as centre drill for holesaw XL

Article No.	Article Description	QTY
5685 12 460	SPEC.AUGER DRILL BIT12X460/350	1



Holesaw Bi-Metal Xtra-Long

- Diameter: 17.22 and 25 mm
- For preparing mounting holes for belt ducts for roller blind belts
- For window construction sectors
- Robust drilling body and Bi-metal design guarantee long service life
- Ø 17 mm for mini-belt (14/15 mm)
- Ø 22 mm for mini-belt for tubular insert
- Ø 25 mm for maxi-belt (22/23 mm)
- Replacement drill Art.-No. 5750 4 165 635



5750 4 165 635

Article No.	Article Description	QTY
5750 4 17	BI-METAL HOLESAW XL SET 17MM	1
5750 4 17 1	BI-METAL HOLESAW XL 17MM	1
5750 4 22	BI-METAL HOLESAW XL SET 22MM	1
5750 4 22 1	BI-METAL HOLESAW XL 22MM	1
5750 4 25	BI-METAL HOLESAW XL SET 25MM	1
5750 4 25 1	BI-METAL HOLESAW XL 25MM	1

Technical Data			
Length	Depth of cut Ø 17 mm	Depth of cut Ø 22 mm	Depth of cut Ø 25 mm
135 mm	90 mm	85 mm	100 mm

Scope of delivery Art.-No. 5750 4 17, 5750 4 22 and 5750 4 25:

- Each 1x holesaw, hexagon adapter, drill

Extension holesaw Bi metal XL

- Suitable for Bi metal hole saw XL, diameter 17.22 and 25 mm
- Ideal use on incline or difficult reachable places
- Length: 200 mm
- Diameter: 26 mm
- M16 inner and outer thread
- Replacement drill Art.-No. 5750 4 165 635



5750 4 165 635

Article No.	Article Description	QTY
5750 5 200	EXTENSION BIT-METAL HOLESAW	1

Carbide Hole Saw - Flat cut

- Carbide hole saw can be used together with hand-held and round-column drilling machine. When using round-column apply manual feed
- Suitable for highly chromed alloy steels such as V2A and V4A (up to 2 mm), steel and steel casting, non-ferrous and light metals, plastics, reinforced fabrics, plaster boards and light building boards, wood processing

Properties:

- Guide drill HSS Co 5
- High radial run
- Robust construction
- One-piece hole saws and shaft
- Triangular shaft
- With cut depth limit
- Replaceable guide drill
- Regrindable carbide cutting edges
- Not suitable for impact drilling
- Tap with slight and steady contact pressure
- Avoid pendulous movement
- Speed list is to be observed
- Use coolant
- Drilling depth max. 10 mm



Article No.	Article Description	QTY
5752 16	CARBIDE FLAT CUT HOLE SAW 16MM	1
5752 18	CARBIDE FLAT CUT HOLE SAW 18MM	1
5752 20	CARBIDE FLAT CUT HOLE SAW 20MM	1
5752 22	CARBIDE FLAT CUT HOLE SAW 22MM	1
5752 23	CARBIDE FLAT CUT HOLE SAW 23MM	1
5752 25	CARBIDE FLAT CUT HOLE SAW 25MM	1
5752 26	CARBIDE FLAT CUT HOLE SAW 26MM	1
5752 27	CARBIDE FLAT CUT HOLE SAW 27MM	1
5752 28	CARBIDE FLAT CUT HOLE SAW 28MM	1
5752 30	CARBIDE FLAT CUT HOLE SAW 30MM	1
5752 32	CARBIDE FLAT CUT HOLE SAW 32MM	1
5752 35	CARBIDE FLAT CUT HOLE SAW 35MM	1
5752 40	CARBIDE FLAT CUT HOLE SAW 40MM	1
5752 42	CARBIDE FLAT CUT HOLE SAW 42MM	1
5752 45	CARBIDE FLAT CUT HOLE SAW 45MM	1
5752 50	CARBIDE FLAT CUT HOLE SAW 50MM	1
5752 54	CARBIDE FLAT CUT HOLE SAW 54MM	1
5752 60	CARBIDE FLAT CUT HOLE SAW 60MM	1
5752 65	CARBIDE FLAT CUT HOLE SAW 65MM	1
5752 68	CARBIDE FLAT CUT HOLE SAW 68MM	1
5752 70	CARBIDE FLAT CUT HOLE SAW 70MM	1

Technical Data				
Ø	Ø	Through size	Pipe size	Shaft Ø
mm	inch	M + PG	inch	mm
16.0	5/8	~ PG 9	-	10
18.0	-	-	-	10
20.0	-	-	-	10
22.0	-	-	1/2	10
23.0	-	-	-	10
25.0	-	-	-	10
26.0	-	-	-	10
27.0	1 1/16	-	-	10
28.0	1 3/32	-	-	10
30.0	1 3/16	-	-	10
32.0	1 1/4	-	-	10
35.0	1 3/8	-	1	10
40.0	1 9/16	-	-	10
42.0	-	-	-	10
45.0	-	-	-	10
50.0	1 31/32	-	-	10
54.0	2 1/8	PG 42	-	13
60.0	2 3/8	~ PG 48	-	13
65.0	-	-	-	13
68.0	-	-	-	13
70.0	2 3/4	-	-	13

Speed values of carbide hole saws

		Con- structural mild steel	Con- structural alloyed steel	Cast iron	CuZn alloys	Aluminium alloys	Thermo- plasts	Duroplasts	Wood
Properties									
Material limit values		up to 700 N/mm ²	up to 1,000 N/mm ²	up to 250 N/mm ²	–	up to 11% Si	–	–	–
Cutting speed Vc		30 m/min	20 m/min	10 m/min	60 m/min	35 m/min	30 m/min	20 m/min	15 m/min
Cooling lubricant		Cutting spray	Cutting spray	Compressed air	Compressed air	Cutting spray	Water	Compressed air	Compressed air
Hole saws Ø (mm/inch) and corresponding speed									
16 mm	5/8"	995 min ⁻¹	697 min ⁻¹	796 min ⁻¹	1.194 min ⁻¹	1.194 min ⁻¹	896 min ⁻¹	796 min ⁻¹	995 min ⁻¹
16,5 mm		965 min ⁻¹	676 min ⁻¹	772 min ⁻¹	1.158 min ⁻¹	1.158 min ⁻¹	869 min ⁻¹	772 min ⁻¹	965 min ⁻¹
17 mm		937 min ⁻¹	656 min ⁻¹	749 min ⁻¹	1.124 min ⁻¹	1.124 min ⁻¹	843 min ⁻¹	749 min ⁻¹	937 min ⁻¹
18 mm		885 min ⁻¹	619 min ⁻¹	708 min ⁻¹	1.062 min ⁻¹	1.062 min ⁻¹	796 min ⁻¹	708 min ⁻¹	885 min ⁻¹
18,6 mm		856 min ⁻¹	599 min ⁻¹	685 min ⁻¹	1.027 min ⁻¹	1.027 min ⁻¹	770 min ⁻¹	685 min ⁻¹	856 min ⁻¹
19 mm	3/4"	838 min ⁻¹	587 min ⁻¹	670 min ⁻¹	1.006 min ⁻¹	1.006 min ⁻¹	754 min ⁻¹	670 min ⁻¹	838 min ⁻¹
20 mm		796 min ⁻¹	557 min ⁻¹	637 min ⁻¹	955 min ⁻¹	955 min ⁻¹	717 min ⁻¹	637 min ⁻¹	796 min ⁻¹
20,4 mm	13/16"	781 min ⁻¹	546 min ⁻¹	624 min ⁻¹	937 min ⁻¹	937 min ⁻¹	703 min ⁻¹	624 min ⁻¹	781 min ⁻¹
21 mm		758 min ⁻¹	531 min ⁻¹	607 min ⁻¹	910 min ⁻¹	910 min ⁻¹	682 min ⁻¹	607 min ⁻¹	758 min ⁻¹
22 mm		724 min ⁻¹	507 min ⁻¹	579 min ⁻¹	869 min ⁻¹	869 min ⁻¹	651 min ⁻¹	579 min ⁻¹	724 min ⁻¹
22,5 mm	7/8"	708 min ⁻¹	495 min ⁻¹	566 min ⁻¹	849 min ⁻¹	849 min ⁻¹	637 min ⁻¹	566 min ⁻¹	708 min ⁻¹
23 mm		692 min ⁻¹	485 min ⁻¹	554 min ⁻¹	831 min ⁻¹	831 min ⁻¹	623 min ⁻¹	554 min ⁻¹	692 min ⁻¹
24 mm	15/16"	663 min ⁻¹	464 min ⁻¹	531 min ⁻¹	796 min ⁻¹	796 min ⁻¹	597 min ⁻¹	531 min ⁻¹	663 min ⁻¹
25 mm		637 min ⁻¹	446 min ⁻¹	510 min ⁻¹	764 min ⁻¹	764 min ⁻¹	573 min ⁻¹	510 min ⁻¹	637 min ⁻¹
25,5 mm	1"	624 min ⁻¹	437 min ⁻¹	500 min ⁻¹	749 min ⁻¹	749 min ⁻¹	562 min ⁻¹	500 min ⁻¹	624 min ⁻¹
26 mm		612 min ⁻¹	429 min ⁻¹	490 min ⁻¹	735 min ⁻¹	735 min ⁻¹	551 min ⁻¹	490 min ⁻¹	612 min ⁻¹
27 mm	1 1/16"	590 min ⁻¹	413 min ⁻¹	472 min ⁻¹	708 min ⁻¹	708 min ⁻¹	531 min ⁻¹	472 min ⁻¹	590 min ⁻¹
28 mm	1 3/32"	569 min ⁻¹	398 min ⁻¹	455 min ⁻¹	682 min ⁻¹	682 min ⁻¹	512 min ⁻¹	455 min ⁻¹	569 min ⁻¹
28,3 mm	1 1/8"	563 min ⁻¹	394 min ⁻¹	450 min ⁻¹	675 min ⁻¹	675 min ⁻¹	506 min ⁻¹	450 min ⁻¹	563 min ⁻¹
29 mm		549 min ⁻¹	384 min ⁻¹	439 min ⁻¹	659 min ⁻¹	659 min ⁻¹	494 min ⁻¹	439 min ⁻¹	549 min ⁻¹
30 mm	1 3/16"	531 min ⁻¹	372 min ⁻¹	425 min ⁻¹	637 min ⁻¹	637 min ⁻¹	478 min ⁻¹	425 min ⁻¹	531 min ⁻¹
31 mm	1 7/32"	514 min ⁻¹	360 min ⁻¹	411 min ⁻¹	616 min ⁻¹	616 min ⁻¹	462 min ⁻¹	411 min ⁻¹	514 min ⁻¹
32 mm	1 1/4"	498 min ⁻¹	348 min ⁻¹	398 min ⁻¹	597 min ⁻¹	597 min ⁻¹	448 min ⁻¹	398 min ⁻¹	498 min ⁻¹
32,5 mm		490 min ⁻¹	343 min ⁻¹	392 min ⁻¹	588 min ⁻¹	588 min ⁻¹	441 min ⁻¹	392 min ⁻¹	490 min ⁻¹
33 mm		483 min ⁻¹	338 min ⁻¹	386 min ⁻¹	579 min ⁻¹	579 min ⁻¹	434 min ⁻¹	386 min ⁻¹	483 min ⁻¹
34 mm		468 min ⁻¹	328 min ⁻¹	375 min ⁻¹	562 min ⁻¹	562 min ⁻¹	422 min ⁻¹	375 min ⁻¹	468 min ⁻¹
35 mm	1 3/8"	455 min ⁻¹	318 min ⁻¹	365 min ⁻¹	546 min ⁻¹	546 min ⁻¹	409 min ⁻¹	364 min ⁻¹	455 min ⁻¹
36 mm		442 min ⁻¹	310 min ⁻¹	354 min ⁻¹	531 min ⁻¹	531 min ⁻¹	398 min ⁻¹	354 min ⁻¹	442 min ⁻¹
37 mm	1 7/16"	430 min ⁻¹	301 min ⁻¹	344 min ⁻¹	516 min ⁻¹	516 min ⁻¹	387 min ⁻¹	344 min ⁻¹	430 min ⁻¹
38 mm	1 1/2"	419 min ⁻¹	293 min ⁻¹	335 min ⁻¹	503 min ⁻¹	503 min ⁻¹	377 min ⁻¹	335 min ⁻¹	419 min ⁻¹
39 mm		408 min ⁻¹	286 min ⁻¹	327 min ⁻¹	490 min ⁻¹	490 min ⁻¹	367 min ⁻¹	327 min ⁻¹	408 min ⁻¹
40 mm	1 9/16"	398 min ⁻¹	279 min ⁻¹	318 min ⁻¹	478 min ⁻¹	478 min ⁻¹	358 min ⁻¹	318 min ⁻¹	398 min ⁻¹
40,5 mm		393 min ⁻¹	275 min ⁻¹	315 min ⁻¹	472 min ⁻¹	472 min ⁻¹	354 min ⁻¹	315 min ⁻¹	393 min ⁻¹

(Continued on next page)

Speed values of carbide hole saws

		Con- structional mild steel	Con- structional alloyed steel	Cast iron	CuZn alloys	Aluminium alloys	Thermo- plasts	Duroplasts	Wood
Properties									
Material limit values		up to 700 N/mm ²	up to 1,000 N/mm ²	up to 250 N/mm ²	–	bis 11 % Si	–	–	–
Cutting speed Vc		30 m/min	20 m/min	10 m/min	60 m/min	35 m/min	30 m/min	20 m/min	15 m/min
Cooling lubricant		Cutting spray	Cutting spray	Compressed air	Compressed air	Cutting spray	Water	Compressed air	Compressed air
Hole saws Ø (mm/inch) and corresponding speed (continued)									
41 mm	1 5/8"	388 min ⁻¹	272 min ⁻¹	311 min ⁻¹	466 min ⁻¹	466 min ⁻¹	350 min ⁻¹	311 min ⁻¹	388 min ⁻¹
42 mm		379 min ⁻¹	265 min ⁻¹	303 min ⁻¹	455 min ⁻¹	455 min ⁻¹	341 min ⁻¹	303 min ⁻¹	379 min ⁻¹
43 mm	1 11/16"	370 min ⁻¹	259 min ⁻¹	296 min ⁻¹	444 min ⁻¹	444 min ⁻¹	333 min ⁻¹	296 min ⁻¹	370 min ⁻¹
44 mm	1 3/4"	262 min ⁻¹	253 min ⁻¹	290 min ⁻¹	434 min ⁻¹	434 min ⁻¹	326 min ⁻¹	290 min ⁻¹	362 min ⁻¹
45 mm		354 min ⁻¹	248 min ⁻¹	283 min ⁻¹	425 min ⁻¹	425 min ⁻¹	318 min ⁻¹	283 min ⁻¹	354 min ⁻¹
46,5 mm		346 min ⁻¹	242 min ⁻¹	277 min ⁻¹	415 min ⁻¹	415 min ⁻¹	312 min ⁻¹	277 min ⁻¹	346 min ⁻¹
47 mm	1 7/8"	339 min ⁻¹	237 min ⁻¹	271 min ⁻¹	407 min ⁻¹	407 min ⁻¹	305 min ⁻¹	271 min ⁻¹	339 min ⁻¹
48 mm		332 min ⁻¹	232 min ⁻¹	265 min ⁻¹	398 min ⁻¹	398 min ⁻¹	299 min ⁻¹	265 min ⁻¹	332 min ⁻¹
49 mm		325 min ⁻¹	227 min ⁻¹	260 min ⁻¹	390 min ⁻¹	390 min ⁻¹	282 min ⁻¹	260 min ⁻¹	325 min ⁻¹
50 mm	1 31/32"	318 min ⁻¹	223 min ⁻¹	255 min ⁻¹	382 min ⁻¹	382 min ⁻¹	287 min ⁻¹	255 min ⁻¹	318 min ⁻¹
50,5 mm		315 min ⁻¹	221 min ⁻¹	252 min ⁻¹	378 min ⁻¹	378 min ⁻¹	284 min ⁻¹	252 min ⁻¹	315 min ⁻¹
51 mm	2"	312 min ⁻¹	219 min ⁻¹	250 min ⁻¹	375 min ⁻¹	375 min ⁻¹	281 min ⁻¹	250 min ⁻¹	312 min ⁻¹
52 mm		306 min ⁻¹	214 min ⁻¹	245 min ⁻¹	367 min ⁻¹	367 min ⁻¹	276 min ⁻¹	245 min ⁻¹	306 min ⁻¹
53 mm		300 min ⁻¹	210 min ⁻¹	240 min ⁻¹	361 min ⁻¹	361 min ⁻¹	270 min ⁻¹	240 min ⁻¹	300 min ⁻¹
54 mm	2 1/8"	295 min ⁻¹	206 min ⁻¹	236 min ⁻¹	354 min ⁻¹	354 min ⁻¹	265 min ⁻¹	236 min ⁻¹	295 min ⁻¹
55 mm		290 min ⁻¹	203 min ⁻¹	232 min ⁻¹	347 min ⁻¹	347 min ⁻¹	261 min ⁻¹	232 min ⁻¹	290 min ⁻¹
56 mm		284 min ⁻¹	199 min ⁻¹	227 min ⁻¹	341 min ⁻¹	341 min ⁻¹	256 min ⁻¹	227 min ⁻¹	284 min ⁻¹
57 mm	2 1/4"	279 min ⁻¹	196 min ⁻¹	223 min ⁻¹	335 min ⁻¹	335 min ⁻¹	251 min ⁻¹	223 min ⁻¹	279 min ⁻¹
58 mm		275 min ⁻¹	192 min ⁻¹	220 min ⁻¹	329 min ⁻¹	329 min ⁻¹	247 min ⁻¹	220 min ⁻¹	275 min ⁻¹
59 mm		270 min ⁻¹	189 min ⁻¹	216 min ⁻¹	324 min ⁻¹	324 min ⁻¹	243 min ⁻¹	216 min ⁻¹	270 min ⁻¹
60 mm	2 3/8"	265 min ⁻¹	186 min ⁻¹	212 min ⁻¹	318 min ⁻¹	318 min ⁻¹	239 min ⁻¹	212 min ⁻¹	265 min ⁻¹
63,5 mm	2 1/2"	251 min ⁻¹	176 min ⁻¹	201 min ⁻¹	301 min ⁻¹	301 min ⁻¹	226 min ⁻¹	201 min ⁻¹	251 min ⁻¹
65 mm		245 min ⁻¹	171 min ⁻¹	196 min ⁻¹	294 min ⁻¹	294 min ⁻¹	220 min ⁻¹	196 min ⁻¹	245 min ⁻¹
70 mm	2 3/4"	227 min ⁻¹	159 min ⁻¹	182 min ⁻¹	273 min ⁻¹	273 min ⁻¹	205 min ⁻¹	182 min ⁻¹	237 min ⁻¹
75 mm		212 min ⁻¹	149 min ⁻¹	170 min ⁻¹	255 min ⁻¹	255 min ⁻¹	191 min ⁻¹	170 min ⁻¹	212 min ⁻¹
80 mm		199 min ⁻¹	139 min ⁻¹	159 min ⁻¹	239 min ⁻¹	239 min ⁻¹	179 min ⁻¹	159 min ⁻¹	199 min ⁻¹
85 mm		187 min ⁻¹	131 min ⁻¹	150 min ⁻¹	225 min ⁻¹	225 min ⁻¹	169 min ⁻¹	150 min ⁻¹	187 min ⁻¹
90 mm		177 min ⁻¹	124 min ⁻¹	142 min ⁻¹	212 min ⁻¹	212 min ⁻¹	159 min ⁻¹	142 min ⁻¹	177 min ⁻¹
95 mm	3 3/4"	168 min ⁻¹	117 min ⁻¹	134 min ⁻¹	201 min ⁻¹	201 min ⁻¹	151 min ⁻¹	134 min ⁻¹	168 min ⁻¹
100 mm		159 min ⁻¹	111 min ⁻¹	127 min ⁻¹	191 min ⁻¹	191 min ⁻¹	143 min ⁻¹	127 min ⁻¹	159 min ⁻¹
110 mm		145 min ⁻¹	101 min ⁻¹	116 min ⁻¹	174 min ⁻¹	174 min ⁻¹	130 min ⁻¹	116 min ⁻¹	145 min ⁻¹
120 mm		133 min ⁻¹	93 min ⁻¹	106 min ⁻¹	159 min ⁻¹	159 min ⁻¹	119 min ⁻¹	106 min ⁻¹	133 min ⁻¹
130 mm	5 1/8"	122 min ⁻¹	86 min ⁻¹	98 min ⁻¹	147 min ⁻¹	147 min ⁻¹	110 min ⁻¹	98 min ⁻¹	122 min ⁻¹

Guide Drill for Carbide Hole Saw, Flat Cut

Technical Data				
Material	Ø mm	Length mm	For hole saws Ø mm	For hole saws Cut depth
Carbide	6.0	52	16.0 - 70.0	flat



Article No.	Article Description	QTY
5752 910	EJECTION SPRING	1
5752 960	CARBIDE REPLACE.DRILL BIT 6MM	1

Circular Saw Blade - Reduction Ring

- All FÖRCH circular saw blades with fix drilling can be reduced

Article No.	Article Description	QTY
5748 20 16	REDUCTION RING 20/16	1
5748 30 20	REDUCTION RING 30/20	1
5748 30 25	REDUCTION RING 30/25	1

(Reduction ring of / on mm)



Hand Circular Saw Blade

- Alternating tooth made of hard metal
- For the use in wood and plate material
- Carbide sawing teeth can re-sharpened several times
- For cuts with a claim to top cutting edge quality, service life and smooth running
- Extra robust version
- High-strength hard soldering of carbide saw teeth
- Due to polished surfaces and high axial run-out accuracy a smooth and clean cut is achieved
- Safe and precise fit of the blade
- FÖRCH-Lasertec:
Laser expansion slit for considerably lower vibration when sawing than commercially available circular saw blades



Article No.	Article Description	QTY
5740 130 16 24	CIRC.SAW.BL.HK 130X16 24TEETH	1
5740 134 20 36	CIRC.SAW.BL.HK 134X20 36TEETH	1
5740 160 16 48	CIRC.SAW.BL.HK 160X16 48TEETH	1
5740 160 20 24	CIRC.SAW.BL.HK 160X20 24TEETH	1
5740 160 20 48	CIRC.SAW.BL.HK 160X20 48TEETH	1
5740 160 30 48	CIRC.SAW.BL.HK 160X30 48TEETH	1
5740 165 30 24	CIRC.SAW.BL.HK 165X30 24TEETH	1
5740 180 20 56	CIRC.SAW.BL.HK 180X20 56TEETH	1
5740 180 30 24	CIRC.SAW.BL.HK 180X30 24TEETH	1
5740 184 16 24	CIRC.SAW.BL.HK 184X16 24TEETH	1
5740 184 16 48	CIRC.SAW.BL.HK 184X16 48TEETH	1
5740 190 16 30	CIRC.SAW.BL.HK 190X16 30TEETH	1
5740 190 20 56	CIRC.SAW.BL.HK 190X20 56TEETH	1
5740 190 30 14	CIRC.SAW.BL.HK 190X30 14TEETH	1
5740 190 30 30	CIRC.SAW.BL.HK 190X30 30TEETH	1
5740 190 30 36	CIRC.SAW.BL.HK 195X30 36TEETH	1
5740 190 30 56	CIRC.SAW.BL.HK 190X30 56TEETH	1
5740 210 30 30	CIRC.SAW.BL.HK 210X30 30TEETH	1
5740 210 30 48	CIRC.SAW.BL.HK 210X30 48TEETH	1
5740 230 30 20	CIRC.SAW.BL.HK 230X30 20TEETH	1
5740 230 30 48	CIRC.SAW.BL.HK 230X30 48TEETH	1
5740 235 30 24	CIRC.SAW.BL.HK 235X30 24TEETH	1
5740 235 30 48	CIRC.SAW.BL.HK 235X30 48TEETH	1
5740 240 30 48	CIRC.SAW.BL.HK 240X30 48TEETH	1
5740 270 30 32	CIRC.SAW.BL.HK 270X30 32TEETH	1
5740 270 30 48	CIRC.SAW.BL.HK 270X30 54TEETH	1
5740 350 30 64	CIRC.SAW.BL.HK 350X30 64TEETH	1

(Blade-Ø mm x drill-Ø mm / number of teeth)

Technical Data

Cut breadth	Standard blade thickness	Pinhole drilling quantity / Ø / centre distance
2.4	1.4	-
2.4	1.4	-
2.6	1.6	-
2.6	1.6	-
2.6	1.6	-
2.6	1.6	-
2.6	1.6	-
2.6	1.8	-
2.6	1.6	-
2.6	1.6	-
2.6	1.6	-
2.6	1.6	-
2.8	1.8	-
2.8	1.8	-
2.8	1.8	-
2.8	1.8	-
2.8	1.8	2x7/42
2.0	1.2	-
2.8	1.8	-
2.8	1.8	2x7/42
2.8	1.8	2x7/42
2.8	1.8	-
2.8	1.8	-
2.8	1.8	-
3.0	2.0	-
3.0	2.0	-
3.0	2.0	2x7/42 + 2x7/46.4 + 2x10/60
3.0	2.0	2x7/42 + 2x7/46.4 + 2x10/60
3.0	2.0	2x7/42 + 2x7/46.4 + 2x10/60

All Purpose-Circular Sawing Blade Quadro

- Triple-chip tooth made of solid metal
- For the use of different materials
- **Wood:** Hardwood and softwood, luxury woods, veneers, chipboards (rough, coated or veneered), shuttering boards, wood with metal fittings and embeddings like nails, clampings etc.
- **Metal:** soft steel, flat and angle steel, tubes, sheets, brass, copper, aluminium etc.
- **Plastics:** soft and hard-PVC (e.g. plates, tubes or profiles), acrylic glass, polyethylene, paxolin, GRP etc.
- **Composite material:** window profile made of aluminium with insulating bar, thermo-fibre plates, multiplex plates with hard rubber coating and facade plates with metallic damp courses
- High-quality universal circular sawing blade
- Long tool life due to special carbid metal quality
- High stability due to the extraordinary strength of the steel blade
- Due to polished surface and high concentricity a smooth and clean cutting with edges free of burr can be achieved
- Clean cutting
- Attention! It is absolutely necessary to put on the protective goggles when sawing metals.



Article No.	Article Description	QTY
5741 160 20 16	CIRC.SAW.BL.QUAD.160X20/16 30T	1
5741 180 30 20	CIRC.SAW.BL.QUAD.180X30/20 34T	1
5741 190 30	CIRC.SAW.BL.QUAD.190X30 38T	1
5741 210 30	CIRC.SAW.BL.QUAD.210X30 40T	1
5741 230 30	CIRC.SAW.BL.QUAD.230X30 44T	1
5741 250 30	CIRC.SAW.BL.QUAD.250X30 48T	1
5741 300 30	CIRC.SAW.BL.QUAD.300X30 60T	1
5741 300 254	CIRC.SAW.BL.QUAD.300X25.4 60T	1
5741 350 30	CIRC.SAW.BL.QUAD.350X30 80T	1
5741 400 30	CIRC.SAW.BL.QUAD.400X30 84T	1

Technical Data		
Cut width	Blade thickness	Pinhole drill. quantity / Ø / centr.dist.
2.0	1.6	-
2.0	1.6	-
2.0	1.6	-
2.0	1.6	-
2.0	1.6	-
2.0	1.6	-
2.2	1.8	2x 7/42 + 2x10/60 + 2x 12/64
2.2	1.8	2x 7/42 + 2x10/60 + 2x 12/60
2.2	1.8	-
2.4	2.0	2x 7/42 + 2x10/60 + 2x 12/60
3.0	2.5	2x 7/42 + 2x10/60 + 2x 12/60

(Blade-Ø in mm x drill-Ø in mm / number of teeth)

Universal Circular Saw Blades UW

- Alternating tooth made of hard metal
- For separating and cutting works. Materials: soft, hard and exotic wood, lengthwise and cross cuts. For raw particle boards up to 60 mm depending on the diameter. Coated on one side, veneered boards up to cutting height of 30 mm as well as for wood-core, plywood, hardboard and building material boards, laminated paper, laminated fabric etc.
- Polished surface and high concentricity provides for a smooth and clean cut
- Safe and precise fit of blade
- Hard metal sawing blades can be re-sharpened
- High cutting quality, long service life and smooth running
- Extra solid version
- High-strength soldered sawing teeth
- FÖRCH-Lasertec; lasered extension slots for considerably lower noise-level when cutting compared to conventional sawing blades
- UW = universal alternating tooth



Article No.	Article Description	QTY
5742 250 30	CIRCULAR SAW UW 250X30 40T	1
5742 260 30 48	CIRCULAR SAW UW 260X30 48T	1
5742 300 30	CIRCULAR SAW UW 300X30 48T	1

Technical Data		
Cut breadth	Standard blade thickness	Pinhole drilling quantity / Ø / centre distance
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60

(Blade-Ø mm x drill-Ø mm / number of teeth)

Circular Saw Blades KW

- Alternating tooth made of hard metal
- For separating and cutting works. For raw particle boards up to a cutting height of 60 mm depending on the diameter. Both sides plastic coated and veneered boards up to cutting height of 30 mm as well as for wood-core, plywood, laminated plastic, hardboard and building material etc. For **high cutting performance**.
- Polished surface and high concentricity provide for a smooth and clean cut
- Safe and precise fit of blade
- Hard metal sawing blade can be re-sharpened
- High cutting quality, longer service life and smooth running
- Extra solid version
- High-strength soldered hard metal sawing teeth
- FÖRCH-Lasertec; lasered extension slots for considerably lower noise-level when cutting compared to conventional circular saw blades
- KW = plastic alternating tooth



Article No.	Article Description	QTY
5743 250 30	CIRCULAR SAW KW 250X30 60T	1
5743 300 30	CIRCULAR SAW KW 300X30 72T	1

(Blade-Ø mm x drill-Ø mm / number of teeth)

Technical Data		
Cut breadth	Standard blade thickness	Pinhole drilling quantity / Ø / centre distance
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60

Circular Saw Blade VW

- Alternating tooth made of hard metal
- For separating and cutting works. Suitable for plates, face veneered or double-sided plastic up to a cutting height of 30 mm. For hardboards and laminated wood up to 10 mm, surface-coated materials for **heavy duty cuttings**. For acrylic glass: Chamfer alternating tooth!
- Polished surface and high concentricity provide for a smooth and clean cut
- Safe and precise fit of blade
- Hard metal sawing teeth can re-sharpened several times
- High cutting quality, longer service life and smooth running
- Extra solid version
- High-strength soldered hard metal sawing
- FÖRCH-Lasertec; lasered extension slots for considerably lower noise-level when cutting compared to conventional circular saw blades
- VW = multiple alternating tooth



Article No.	Article Description	QTY
5744 250 30	CIRCULAR SAW BL.VW 250X30 80T	1
5744 300 30	CIRC.SAW BL.VW 300X30 96T	1

(Blade-Ø mm x drill Ø mm / number of teeth)

Technical Data		
Cut breadth	Standard blade thickness	Pinhole drilling quantity / Ø / centre distance
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60

Circular Saw Blade HD

- Alternate tooth made of hard metal
- Special saw blade for cutting and edge-plane cuttings with especially high cutting performance and chipboards which are coated on both sides with polyester, thermoplastic, duro-plastic and synthetic resin up to a cutting depth of 30 mm. Fine cutting in laminated sheets.
- Polished surface and high concentricity provide for a smooth and clean cut
- Safe and precise fit of blade
- Hard metal saw blade can be re-sharpened several times
- Highest cutting quality, longer service life and smooth running
- Extra solid version
- High-strength soldered hard metal sawing teeth
- FÖRCH-Lasertec; lasered extension slots for considerably lower noise-level compared to conventional circular saw blades
- HDF = hollow tooth-roof-flat made of hard metal



Article No.	Article Description	QTY
5745 302 30	CIRC.SAW BLADE HDF 302X30 60T	1

(Blade-Ø mm x drill-Ø mm / number of teeth)

Technical Data		
Cut breadth	Standard blade thickness	Pinhole drilling quantity / Ø / centre distance
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60

Circular Saw Blade LWZ

- Alternate tooth made of hard metal
- For long and cross-section cuttings in all natural woods, wooden materials, also for one-sided veneered and one-sided with plastic veneered materials. Blade is suitable for solid wood (construction site, carpentry, joinery, window assembly, furniture mounting, interior fittings etc.)
- Backstroke
- Polished surface and high concentricity provide for a smooth and clean cut
- Safe and precise fit of blade
- Hard metal sawing teeth can be re-sharpened several times
- Highest cutting quality, longer service life and smooth running
- Extra solid version
- High-strength soldered hard metal sawing teeth
- FÖRCH-Lasertec; lasered extension slots for considerably lower noise-level compared to conventional circular saw blades
- LWZ = longitudinal section alternating tooth



Article No.	Article Description	QTY
5746 250 30 24	CIRC.SAW BLADE LWZ 250X30 24T	1
5746 300 30 24	CIRC.SAW BLADE LWZ 300X30 24T	1
5746 300 30 28	CIRC.SAW BLADE LWZ 300X30 28T	1
5746 315 30 28	CIRC.SAW BLADE LWZ 315X30 28T	1
5746 350 30 24	CIRC.SAW BLADE LWZ 350X30 24T	1
5746 350 30 32	CIRC.SAW BLADE LWZ 350X30 32T	1
5746 400 30 28	CIRC.SAW BLADE LWZ 400X30 28T	1
5746 400 30 36	CIRC.SAW BLADE LWZ 400X30 36T	1
5746 450 30 40	CIRC.SAW BLADE LWZ 450X30 40T	1

(Blade-Ø mm x drill-Ø mm / number of teeth)

Technical Data		
Cut breadth	Standard blade thickness	Pinhole drilling quantity / Ø / centre distance
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60
3.5	2.5	2x7/42 + 2x9/46.4 + 2x10/60
3.5	2.5	2x7/42 + 2x9/46.4 + 2x10/60
3.5	2.5	2x7/42 + 2x9/46.4 + 2x10/60
3.5	2.5	2x7/42 + 2x9/46.4 + 2x10/60
4.5	2.8	2x7/42 + 2x9/46.4 + 2x10/60

Circular Saw Blades with Internal HM Scrapers

- Alternate tooth made from hard metal
- For cross and longitudinal sections in soft and hard wood, wet and dry
- Cut with strobe cut for format machines, bench circular saws, trimmers
- Ideal for high cutting height thanks to the internal spaces
- Flat tooth positive rake angle
- With expansion slots
- Chip thickness limited design
- Low kickback
- Carbide tipped strobos with cooling, scraper function and tracking function in the cutting joint



Article No.	Article Description	QTY
5746 350 30 204	CIRC.SAW B.W.SCRAP.350X30Z20/4	1
5746 400 30 284	CIRC.SAW B.W.SCRAP.400X30Z28/4	1

Technical Data		
Cut breadth	Standard blade thickness	Pinhole drilling quantity / Ø / centre distance
3.2	2.2	2x7/42 + 2x10/60
3.2	2.2	2x7/42 + 2x10/60

(Blade Ø mm x hole Ø mm / number of teeth)

Circu. Sawblades for NF Metals with Negative Teeth

- Highest accuracy and best product life
- Saws aluminium, copper, brass, composites and plastics
- For thin-walled sections, as well as anodized
- Panel materials, compressed wood and solid timber in cross and longitudinal sections
- Due to the negative shape of the teeth, the saw blade is not pressed into the material but the counterforce is less. For this reason the negative blades are lighter and safer to use for manual feeds
- Furthermore the negative tooth shape is insensitive to impact and jamming
- Primarily for use with mitre saws with oscillating saw blade
- WZ = alternate tooth
- TFZ = trapezoidal flat tooth

Application:

- For cutting thin-walled panels made from aluminium and plastic, particularly anodised profiles and other non-ferrous metals
- Negative rake angle = chop saw, mitre saw and pendulum saw
- **NEG** = negative tooth position
- Solid timber, MDF panels and chipboard also coated



Article No.	Article Description	QTY
5740 216 30 24	CIRCU.SAW.BL.HK216X30 24Z NEG.	1
5740 216 30 48	CIRCU.SAW.BL.HK216X30 48Z NEG.	1
5740 216 30 60	CIRCU.SAW.BL.HK216X30 60Z NEG.	1
5740 216 30 80	CIRCU.SAW.BL.HK216X30 80Z NEG.	1
5740 305 30 60	CIRCU.SAW.BL.HK305X30 60Z NEG.	1
5740 305 30 80	CIRCU.SAW.BL.HK305X30 80Z NEG.	1
5744 250 30 801	CIRC.SAW BL.VW 250X30 80T NEG.	1
5749 250 30 60	CIRC.SAW BL.VW 250X30 60T NEG.	1
5749 300 30 72	CIRC.SAW BL.VW 300X30 72T NEG.	1
5749 300 30 96	CIRC.SAW BL.VW 250X30 96T NEG.	1
5749 350 30 108	CIRC.SAW BL.VW 250X30 108T NEG	1

Technical Data			
Cut breadth	Balde thickness	Pinhole drilling quantity / Ø / centr.dist.	Tooth form
2.8	1.8	-	WZ
2.8	1.8	-	WZ
2.8	1.8	-	WZ
2.8	1.8	-	WZ
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60	WZ
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60	WZ
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60	WZ
3.2	2.2	2x7/42	TFZ
3.2	2.2	2x7/42 + 2x10/60	TFZ
3.2	2.2	2x7/42 + 2x10/60	TFZ
3.2	2.2	2x7/42 + 2x10/60	TFZ

(Blade Ø mm x hole Ø mm / number of teeth)

Circular Saw Blade LF

- Carbide tipped and nail resistant
- For the robust and universal use on building sites – to cut sheathings, round and square timbers with concrete, and nails splits as well as aerated concrete, lightweight building boards, cement asbestos and other building materials
- Safety saw blade
- Backstroke limitation
- Cost-efficient due to little maintenance cost
- Due to polished surface and the high axial run-out accuracy, a smooth and clean cut is being achieved
- Safe fit by exact fix drill
- Carbide sawing teeth can be re-sharpened several times
- Highest demands in cutting quality, durability and smoothness
- Extra solid construction
- High-tensile brazing of the carbide sawing teeth
- FÖRCH-Lasertec; laser cut extension slots for distinctly low noise sawing compared with common circular sawing blades
- LF = Long cut flat tooth



Article No.	Article Description	QTY
5747 315 30	CIRC.SAW BLADE LF 315X30 24T	1
5747 350 30	CIRC.SAW BLADE LF 350X30 24T	1
5747 400 30	CIRC.SAW BLADE LF 400X30 28T	1
5747 450 30	CIRC.SAW BLADE LF 450X30 32T	1
5747 500 30	CIRC.SAW BLADE LF 500X30 36T	1
5747 600 30	CIRC.SAW BLADE LF 600X30 40T	1
5747 700 30	CIRC.SAW BLADE LF 700X30 46T	1

(Blade-Ø mm x drill-Ø mm)

Technical Data		
Cut breadth	Standard blade thickness	Pinhole drilling quantity / Ø / centre distance
3.2	2.2	2x7/42 + 2x9/46.4 + 2x10/60
3.5	2.5	2x7/42 + 2x9/46.4 + 2x10/60
4.0	2.8	2x7/42 + 2x9/46.4 + 2x10/60
4.0	3.0	2x7/42 + 2x9/46.4 + 2x10/60
4.0	3.0	2x7/42 + 2x9/46.4 + 2x10/60
3.8	2.8	-
4.2	3.2	-

Circular Saw Blades for Joiners

- Low kickback due to deflectors for greater safety
- Can also be used for natural wood, chipboard and MDF panels
- Suitable for all commercial joiners and lamello machines

Technical Data	
Breadth of cut	Standard sheet thickness
3.97	2.8

Article No.	Article Description	QTY
5740 100 22 6	CIRC.SAW.BL.HK 100X22 6TEETH	1



HM-Planer Blades

- For electric hand plane
- Carbide type:
 - No re-sharpening and stripping required
 - 20-times longer durability compared with common super speed steel blades for intended use
 - Excellent plane quality for solid wood and all pallet materials
- Carbide planer blades are packed in the environmental carboard box Blister

Article No.	Article Description	QTY
5680 805 2	BLI(2)HM-PLANER BLADE 80.5	1
5680 820 2	BLI(2)HM-PLANER BLADE 82.0	1
5680 805 10	BLI(10)HM-PLANER BLADE 80.5	1
5680 820 10	BLI(10)HM-PLANER BLADE 82.0	1

(Cutting width mm)



Metal Circular Saw Blade HSS

- HSS steel with tungsten and molybdenum addition
 - Ultimate strength
 - Increased durability
- Steel body made of Swedish steel
 - Improved concentricity
 - Precise cuts
- Steam tempered surfaces
 - High sliding quality
 - Reduces material requirement
- Tooth shape
 - Improved chip ejection
 - Blade with high cutting power
- Tooth shape BW: for pipes and profile cutting with wall strengths of 3 – 4 mm
- Tooth shape HZ: for cross sections cuttings more than 4 – 5 mm



Article No.	Article Description	QTY
5715 225 32 120	HSS-CIRC.SAW BLADE 225X32 120T	1
5715 225 32 140	HSS-CIRC.SAW BLADE 225X32 140T	1
5715 225 32 180	HSS-CIRC.SAW BLADE 225X32 180T	1
5715 225 32 220	HSS-CIRC.SAW BLADE 225X32 220T	1
5715 250 32 100	HSS-CIRC.SAW BLADE 250X32 100T	1
5715 250 32 128	HSS-CIRC.SAW BLADE 250X32 128T	1
5715 250 32 160	HSS-CIRC.SAW BLADE 250X32 160T	1
5715 250 32 200	HSS-CIRC.SAW BLADE 250X32 200T	1
5715 250 32 240	HSS-CIRC.SAW BLADE 250X32 240T	1
5715 250 40 100	HSS-CIRC.SAW BLADE 250X40 100T	1
5715 250 40 128	HSS-CIRC.SAW BLADE 250X40 128T	1
5715 250 40 160	HSS-CIRC.SAW BLADE 250X40 160T	1
5715 250 40 200	HSS-CIRC.SAW BLADE 250X40 200T	1
5715 275 32 110	HSS-CIRC.SAW BLADE 275X32 110T	1
5715 275 32 140	HSS-CIRC.SAW BLADE 275X32 140T	1
5715 275 32 220	HSS-CIRC.SAW BLADE 275X32 220T	1
5715 275 32 280	HSS-CIRC.SAW BLADE 275X32 280T	1
5715 275 40 90	HSS-CIRC.SAW BLADE 275X40 90T	1
5715 275 40 110	HSS-CIRC.SAW BLADE 275X40 110T	1
5715 275 40 140	HSS-CIRC.SAW BLADE 275X40 140T	1
5715 275 40 180	HSS-CIRC.SAW BLADE 275X40 180T	1
5715 275 40 220	HSS-CIRC.SAW BLADE 275X40 220T	1
5715 275 40 280	HSS-CIRC.SAW BLADE 275X40 280T	1
5715 300 32 120	HSS-CIRC.SAW BLADE 300X32 120T	1
5715 300 32 160	HSS-CIRC.SAW BLADE 300X32 160T	1
5715 300 32 220	HSS-CIRC.SAW BLADE 300X32 220T	1
5715 300 40 120	HSS-CIRC.SAW BLADE 300X40 120T	1
5715 300 40 160	HSS-CIRC.SAW BLADE 300X40 160T	1
5715 300 40 180	HSS-CIRC.SAW BLADE 300X40 180T	1
5715 300 40 220	HSS-CIRC.SAW BLADE 300X40 220T	1
5715 315 32 100	HSS-CIRC.SAW BLADE 315X32 100T	1
5715 315 32 120	HSS-CIRC.SAW BLADE 315X32 120T	1
5715 315 32 160	HSS-CIRC.SAW BLADE 315X32 160T	1
5715 315 32 240	HSS-CIRC.SAW BLADE 315X32 240T	1
5715 315 40 100	HSS-CIRC.SAW BLADE 315X40 100T	1
5715 315 40 120	HSS-CIRC.SAW BLADE 315X40 120T	1
5715 315 40 160	HSS-CIRC.SAW BLADE 315X40 160T	1
5715 315 40 240	HSS-CIRC.SAW BLADE 315X40 240T	1
5715 350 32 100	HSS-CIRC.SAW BLADE 350X32 110T	1
5715 350 32 120	HSS-CIRC.SAW BLADE 350X32 120T	1
5715 350 32 140	HSS-CIRC.SAW BLADE 350X32 140T	1
5715 350 32 160	HSS-CIRC.SAW BLADE 350X32 160T	1
5715 350 32 180	HSS-CIRC.SAW BLADE 350X32 180T	1
5715 350 32 220	HSS-CIRC.SAW BLADE 350X32 220T	1
5715 350 32 280	HSS-CIRC.SAW BLADE 350X32 280T	1

(Blade-Ø mm x drill mm / number of teeth)

Technical Data			
Tooth shape	Cutting	Side holes	Suitable
tooth pitch	width	number / Ø mm / for	
mm	mm	hole mm	manufacturer
HZ 6	-	-	Kaltenbach, Rohbi,
HZ 5	-	-	Ulmia, MEP, Omes,
BW 4	-	-	Pedrazzoli, Thomas
BW 3	-	-	
HZ 8	-	-	Fabris, Imet, Kaltenbach,
HZ 6	-	-	Omes, Rohbi, Kasto,
HZ 5	-	-	MEP, Pedrazzoli, Thomas
BW 4	-	-	
BW 3	-	-	
HZ 8	2.5	2/8/55 + 4/12/64	Eisele, Häberle,
HZ 6	-	-	Ulmia
HZ 5	-	-	
BW 4	-	-	
HZ 8	2.0	2/8/45 + 2/11/63	Berg + Schmid, Bewo,
HZ 6	-	-	Fabris, Imet, Kaltenbach,
BW 4	-	-	Kasto, MEP, Omes,
BW 3	-	-	Pedrazzoli, Rohbi, Thomas
HZ 10	2.5	2/8/55 + 4/12/64	Eisele, Forte, Häberle
HZ 8	-	-	
HZ 6	-	-	
HZ 5	-	-	
BW 4	-	-	
BW 3	-	-	
HZ 8	2.5	2/8/45 + 2/11/63	Berg + Schmid, Kasto,
HZ 6	-	-	MEP, Omes, Pedrazzoli,
BW 4	-	-	Thomas
HZ 8	-	-	Ulmia
HZ 6	-	-	
HZ 5	-	-	
BW 4	-	-	
HZ 10	-	-	MEP, Omes, Pedrazzoli,
HZ 8	-	-	Thomas
HZ 6	-	-	
BW 4	-	-	
HZ 10	-	-	Ulmia
HZ 8	-	-	
HZ 6	-	-	
BW 4	-	-	
HZ 11	3.0	2/8/45 + 2/11/63	Berg + Schmid, Kasto,
HZ 9	-	-	MEP, Omes, Pedrazzoli
HZ 8	-	-	Thomas
HZ 7	-	-	
HZ 6	-	-	
HZ 5	-	-	
BW 4	-	-	

HZ= Teeth alternately pre and final cutter
 BW= Teeth alternately right-handed sharpening /
 left-handed sharpening

(Continued on next page)

Metal Circular Saw Blade HSS

- HSS steel with tungsten and molybdenum addition
 - Ultimate strength
 - Increased durability
- Steel body made of Swedish steel
 - Improved concentricity
 - Precise cuts
- Steam tempered surfaces
 - High sliding quality
 - Reduces material requirement
- Tooth shape
 - Improved chip ejection
 - Blade with high cutting power



Article No.	Article Description	QTY
5715 350 40 100	HSS-CIRC.SAW BLADE 350X40 100T	1
5715 350 40 120	HSS-CIRC.SAW BLADE 350X40 120T	1
5715 350 40 140	HSS-CIRC.SAW BLADE 350X40 140T	1
5715 350 40 160	HSS-CIRC.SAW BLADE 350X40 160T	1
5715 350 40 180	HSS-CIRC.SAW BLADE 350X40 180T	1
5715 350 40 220	HSS-CIRC.SAW BLADE 350X40 220T	1
5715 350 40 280	HSS-CIRC.SAW BLADE 350X40 280T	1
5715 350 50 100	HSS-CIRC.SAW BLADE 350X50 100T	1
5715 350 50 120	HSS-CIRC.SAW BLADE 350X50 120T	1
5715 350 50 160	HSS-CIRC.SAW BLADE 350X50 160T	1
5715 350 50 220	HSS-CIRC.SAW BLADE 350X50 220T	1
5715 370 50 100	HSS-CIRC.SAW BLADE 370X50 100T	1
5715 370 50 120	HSS-CIRC.SAW BLADE 370X50 120T	1
5715 370 50 160	HSS-CIRC.SAW BLADE 370X50 160T	1
5715 400 40 120	HSS-CIRC.SAW BLADE 400X40 120T	1
5715 400 40 160	HSS-CIRC.SAW BLADE 400X40 160T	1
5715 400 40 200	HSS-CIRC.SAW BLADE 400X40 200T	1
5715 400 50 120	HSS-CIRC.SAW BLADE 400X50 120T	1
5715 400 50 180	HSS-CIRC.SAW BLADE 400X50 180T	1

Technical Data			
Tooth shape	Cutting	Side holes	Suitable
Tooth pitch	width	Number/ Ø mm /	for
mm	mm	Hole mm	Manufacturer
HZ 11	3.0	2/8/55 + 4/12/64	Eisele, Häberle, Ulmia
HZ 9	-	-	
HZ 8	-	-	
HZ 7	-	-	
HZ 6	-	-	
HZ 5	-	-	
BW 4	-	-	
HZ 11	-	-	Trennjäger
HZ 9	-	-	
HZ 7	-	-	
HZ 5	-	-	
HZ 11	-	-	Trennjäger
HZ 9	-	-	
HZ 7	-	-	
HZ 5	-	-	
HZ 10	-	+ 2/8/55	
HZ 8	-	-	
HZ 6	-	-	
HZ 10	-	-	
HZ 7	-	-	

(Blade-Ø mm x drill mm / number of teeth)

HZ= Teeth alternately pre and final cutter
 BW= Teeth alternately right-handed sharpening / left-handed sharpening

Metal Circular Saw Blade HSS-E

- HSS-E metal saw blades with high cobalt concentration in the steel body for the **stainless steel processing** – increased durability at high working temperatures
- Tooth shape BW: For pipe and profiles cutting with a wall thickness of 3- mm
- Tooth shape HZ: For cross sections cutting more than 4-5 mm



Article No.	Article Description	QTY
5716 225 32 120	HSS-E CIR.SAW BLADE225X32 120T	1
5716 225 32 140	HSS-E CIR.SAW BLADE225X32 140T	1
5716 225 32 180	HSS-E CIR.SAW BLADE225X32 180T	1
5716 225 32 220	HSS-E CIR.SAW BLADE225X32 220T	1
5716 250 32 100	HSS-E CIR.SAW BLADE250X32 100T	1
5716 250 32 128	HSS-E CIR.SAW BLADE250X32 128T	1
5716 250 32 160	HSS-E CIR.SAW BLADE250X32 160T	1
5716 250 32 200	HSS-E CIR.SAW BLADE250X32 200T	1
5716 250 32 240	HSS-E CIR.SAW BLADE250X32 240T	1
5716 250 40 100	HSS-E CIR.SAW BLADE250X40 100T	1
5716 250 40 128	HSS-E CIR.SAW BLADE250X40 128T	1
5716 250 40 160	HSS-E CIR.SAW BLADE250X40 160T	1
5716 250 40 200	HSS-E CIR.SAW BLADE250X40 200T	1
5716 275 32 110	HSS-E CIR.SAW BLADE275X32 110T	1
5716 275 32 140	HSS-E CIR.SAW BLADE275X32 140T	1
5716 275 32 220	HSS-E CIR.SAW BLADE275X32 220T	1
5716 275 32 280	HSS-E CIR.SAW BLADE275X32 280T	1
5716 275 40 90	HSS-E CIR.SAW BLADE 275X40 90T	1
5716 275 40 110	HSS-E CIR.SAW BLADE275X40 110T	1
5716 275 40 140	HSS-E CIR.SAW BLADE275X40 140T	1
5716 275 40 180	HSS-E CIR.SAW BLADE275X40 180T	1
5716 275 40 220	HSS-E CIR.SAW BLADE275X40 220T	1
5716 275 40 280	HSS-E CIR.SAW BLADE275X40 280T	1
5716 300 32 120	HSS-E CIR.SAW BLADE300X32 120T	1
5716 300 32 160	HSS-E CIR.SAW BLADE300X32 160T	1
5716 300 32 220	HSS-E CIR.SAW BLADE300X32 220T	1
5716 300 40 120	HSS-E CIR.SAW BLADE300X40 120T	1
5716 300 40 160	HSS-E CIR.SAW BLADE300X40 160T	1
5716 300 40 180	HSS-E CIR.SAW BLADE300X40 180T	1
5716 300 40 220	HSS-E CIR.SAW BLADE300X40 220T	1
5716 315 32 100	HSS-E CIR.SAW BLADE315X32 100T	1
5716 315 32 120	HSS-E CIR.SAW BLADE315X32 120T	1
5716 315 32 160	HSS-E CIR.SAW BLADE315X32 160T	1
5716 315 32 240	HSS-E CIR.SAW BLADE315X32 240T	1
5716 315 40 100	HSS-E CIR.SAW BLADE315X40 100T	1
5716 315 40 120	HSS-E CIR.SAW BLADE315X40 120T	1
5716 315 40 160	HSS-E CIR.SAW BLADE315X40 160T	1
5716 315 40 240	HSS-E CIR.SAW BLADE315X40 240T	1
5716 350 32 100	HSS-E CIR.SAW BLADE350X32 100T	1
5716 350 32 120	HSS-E CIR.SAW BLADE350X32 120T	1
5716 350 32 140	HSS-E CIR.SAW BLADE350X32 140T	1
5716 350 32 160	HSS-E CIR.SAW BLADE350X32 160T	1
5716 350 32 180	HSS-E CIR.SAW BLADE350X32 180T	1
5716 350 32 220	HSS-E CIR.SAW BLADE350X32 220T	1
5716 350 32 280	HSS-E CIR.SAW BLADE350X32 280T	1

(Blade-Ø mm x drill mm / number of teeth)

Technische Daten			
Tooth shape	Cutting	Side holes	Suitable
tooth pitch	width	quantity / Ø mm / for	manufacturer
mm	mm	pitch circle mm	
HZ 6	-	-	Kaltenbach, Rohbi,
HZ 5	-	-	Ulmia, MEP, Omes,
BW 4	-	-	Pedrazzoli, Thomas
BW 3	-	-	
HZ 8	-	-	Fabris, Imet, Kaltenbach,
HZ 6	-	-	Omes, Rohbi, Kasto,
HZ 5	-	-	MEP, Pedrazzoli, Thomas
BW 4	-	-	
BW 3	-	-	
HZ 8	2.5	2/8/55 + 4/12/64	Eisele, Häberle,
HZ 6	-	-	Ulmia
HZ 5	-	-	
BW 4	-	-	
HZ 8	2.5	2/8/45 + 2/11/63	Berg + Schmid, Bewo,
HZ 6	-	-	Fabris, Imet, Kaltenbach,
BW 4	-	-	Kasto, MEP, Omes,
BW 3	-	-	Pedrazzoli, Rohbi, Thomas
HZ 10	2.5	2/8/55 + 4/12/64	Eisele, Forte, Häberle
HZ 8	-	-	
HZ 6	-	-	
HZ 5	-	-	
BW 4	-	-	
BW 3	-	-	
HZ 8	2.5	2/8/45 + 2/11/63	Berg + Schmid, Kasto,
HZ 6	-	-	MEP, Omes, Pedrazzoli,
BW 4	-	-	Thomas
HZ 8	-	-	Ulmia
HZ 6	-	-	
HZ 5	-	-	
BW 4	-	-	
HZ 10	-	-	MEP, Omes, Pedrazzoli,
HZ 8	-	-	Thomas
HZ 6	-	-	
BW 4	-	-	Ulmia
HZ 10	-	-	
HZ 8	-	-	
HZ 6	-	-	
BW 4	-	-	
HZ 11	3.0	2/8/45 + 2/11/63	Berg + Schmid, Kasto,
HZ 9	-	-	MEP, Omes, Pedrazzoli
HZ 8	-	-	Thomas
HZ 7	-	-	
HZ 6	-	-	
HZ 5	-	-	
BW 4	-	-	

HZ= Teeth alternately pre and final cutter
 BW= Teeth alternately right-handed sharpening / left-handed sharpening

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Metal Circular Saw Blade HSS-E

- HSS-E metal saw blades with high cobalt concentration in the steel body for the **stainless steel processing** – increased durability at high working temperatures
- Tooth shape BW: For pipe and profiles cutting with a wall thickness of 3- mm
- Tooth shape HZ: For cross sections cutting more than 4-5 mm



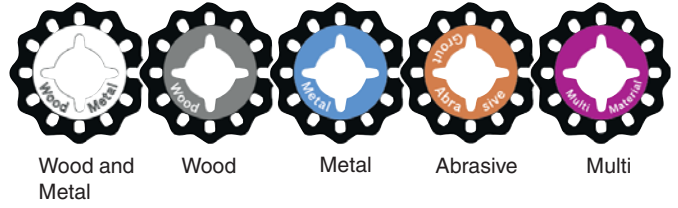
Article No.	Article Description	QTY
5716 370 50 100	HSS-E CIR.SAW BLADE370X50 100T	1
5716 370 50 120	HSS-E CIR.SAW BLADE370X50 120T	1
5716 370 50 160	HSS-E CIR.SAW BLADE370X50 160T	1
5716 370 50 220	HSS-E CIR.SAW BLADE370X50 220T	1
5716 400 40 120	HSS-E CIR.SAW BLADE400X40 120T	1
5716 400 40 160	HSS-E CIR.SAW BLADE400X40 160T	1
5716 400 50 120	HSS-E CIR.SAW BLADE400X50 120T	1
5716 400 50 180	HSS-E CIR.SAW BLADE400X50 180T	1

Technical Data			
Tooth shape	Cutting	Side holes	uitable
tooth pitch	width	quantity / Ø mm /	for
mm	mm	pitch circle mm	manufacturer
HZ 11	–	–	Trennjäger
HZ 9	–	–	
HZ 7	–	–	
HZ 5	–	–	
HZ 10	–	+ 2/8/55	
HZ 8	–	–	
HZ 10	–	–	
HZ 7	–	–	

HZ= Teeth alternately pre and final cutter
 BW= Teeth alternately right-handed sharpening /
 left-handed sharpening

Bosch-Multi-Cutter Accessoires

- For a time-saving and precise working
- high cutting speed
- cutting without fraying
- directly dips into the material
- even on difficult reachable places
- cutting edge-near



BIM Segmental Saw Blade Wood and Metal

- Deep plunge cut in wood, abrasive wooden composites and plastics
- Separation of no-ferrous pipes and profiles of smaller dimensions
- Separation of non-hardened nails, screws and steel profiles of smaller dimensions

Technical Data		
Art.-No.	Blade size mm	Tooth pitch mm
5717 28 50	28 x 50	1.8
5717 28 50 1	28 x 50	1.8

Article No.	Article Description	QTY
5717 28 50	PLUNGE SAW B. BIM W+M 28X50MM	1
5717 28 50 1	P(5)PLU.SAW B. BIM W+M 28X50MM	1



HCS Segmental Saw Wood

- Plunge cut in soft wood, e.g. for assembly of ventilation grilles
- For cutting recesses in items of furniture
- Wooden constructions (e.g. dowels, pegs) and concise cutting to length
- Delicate adjustments in wood

Technical Data		
Art.-No.	Blade size mm	Tooth pitch mm
5717 20 30	20 x 30	1.8
5717 20 30 1	20 x 30	1.8
5717 32 40 1	32 x 40	1.8
5717 32 40 3	32 x 40	1.8

Article No.	Article Description	QTY
5717 20 30	PLUNGE SAW BLADE HCS W 20X30MM	1
5717 20 30 1	P(5)PLUNGE SAW B.HCS W 20X30MM	1
5717 32 40 1	PLUNGE SAW BLADE HCS W 32X40MM	1
5717 32 40 3	P(5)PLUNGE SAW B.HCS W 32X40MM	1



BIM Segmental Saw Blade Wood and Metal, Cranked

- Cut door frame to length on the floor
- Cut laminate / parquet
- Cut smaller moulding to length

Technical Data

Art.-No.	Blade size mm Ø	Blade strength mm
5717 100	100	1.7



Article No.	Article Description	QTY
5717 100	SEGM. SAW BLADE BIM W+M 100MM	1

BIM Segmental Saw Blade Wood and Metal, Cranked

- Cutting door frames to length on the floor
- Cuts in laminate / parquet flooring
- Cutting smaller moulding to length

Technical Data

Art.-No.	Blade size mm Ø	Tooth pitch mm
5717 85	85	1.4



Article No.	Article Description	QTY
5717 85	SEGM. SAW BLADE BIM W+M 85MM	1

Plunge Saw Blade BIM metal

- Concisely detach nails
- Concisely separate copper pipe
- Plunge cuts in plaster boards

Technical Data

Art.-No.	Blade size mm	Tooth pitch mm
5717 10 20	10 x 20	1.3
5717 32 30	32 x 30	1.3
5717 32 40 4	32 x 40	1.1
5717 32 40 5	32 x 40	1.1



Article No.	Article Description	QTY
5717 10 20	PLUNGE SAW BLADE BIM M 10X20MM	1
5717 32 30	PLUNGE SAW BLADE BIM M 32X30MM	1
5717 32 40 4	PLUNGE SAW BLADE BIM M 32X40MM	1
5717 32 40 5	P(5)PLUNGE SAW B.BIM M 32X40MM	1

5717 10 20

5717 32 30

5717 32 40 4

HCS Segmental Saw Hardwood

- Most suitable for plunge cuts in layered sheets or hardwood

Technical Data

Art. No.	Blade size mm	Tooth pitch mm
5717 32 40	32 x 40	1.8
5717 32 40 2	32 x 40	1.8
5717 65 40	65 x 40	1.8
5717 65 40 1	65 x 40	1.8



Article No.	Article Description	QTY
5717 32 40	PLUNGE SAW BLADE BIM W 32X40MM	1
5717 32 40 2	P(5)PLUNGE SAW B.BIM W 32X40MM	1
5717 65 40	PLUNGE SAW B. BIM HW 65X40MM	1
5717 65 40 1	P(5)PLUNGE SAW B.BIM HW 65X40	1

HCS Segmental Saw Blade Wood, Cranked

- Plunge cut in solid wood
- Concisely cut wood
- Cut plastic (PVC) pipes to length

Technical Data

Art.-No.	Blade size mm Ø	Tooth pitch mm
5717 85 1	85	1.4



Article No.	Article Description	QTY
5717 85 1	SEGM. SAW BLADE HCS W 85MM	1

Diamond Cut Segmental Blade

- Milling smaller cuts in soft wall tiles
- Cutting recesses in epoxy /GFK
- Milling joints on wall tiles

Technical Data

Art.-No.	Blade size mm Ø	Blade strength mm
5717 85 3	85	2



Article No.	Article Description	QTY
5717 85 3	SEGM. SAW BLADE DIAMOND-R 85MM	1

HM-Riff Narrow Cut Segmental Saw Blade

- Milling very thin joints on wall tiles
- Cutting recesses in epoxy / GFK
- Mill grooves into aerated concrete to lay cables and pipes under plaster

Technical Data

Art.-No.	Blade size mm Ø	Blade strength mm
5717 65	65	1.6



Article No.	Article Description	QTY
5717 65	NARROW CUT SEG.SAW B.HM-R 65MM	1

HM-RIFF Segmental Saw Blade

- Mill joints on wall and floor tiles
- Small cuts in soft wall tiles
- Mill grooves into aerated concrete to lay cables and pipes under plaster

Technical Data

Art.-No.	Blade size mm Ø
5717 85 2	85



Article No.	Article Description	QTY
5717 85 2	SEGM. SAW BLADE HM-R 85MM	1

HM-Riff Grout Remover

- Milling very thin joints on wall tiles
- Removing grout or tile adhesive
- Milling joints

Technical Data

Art.-No.	Blade size mm Ø	Grit mm
5717 70	70	40



Article No.	Article Description	QTY
5717 70	GROUT REMOVER HM-R 70MM	1

Grinding Plate

- Grinding plate with micro Velcro backing
- Quick and easy change of grinding blades

Technical Data

Art.-No.	Blade size mm
5717 93	93



Article No.	Article Description	QTY
5717 93	GRINDING PLATE DELTA 93MM	1

BIM-TiN Segmental Saw Blade Multi Material, Level

- Long life, 30% longer product life thanks to titanium coating
- Suitable for working in corners
- Cut recess in epoxy / GFK
- Plunge cuts in plasterboard or cement-bound fibreboards
- Cut smaller mouldings to length

Technical Data		
Art.-No.	Blade size mm Ø	Tooth pitch mm
5717 3	85	1.5

Article No.	Article Description	QTY
5717 3	SEGMENTAL SAW BLADE MULTI BIM	1



HCS Scraper Rigid and Flexible

- For the removal of grout or tile adhesive, e.g. when replacing damaged tiles
- Removing grout and concrete residue
- Removing hard and soft carpet adhesive residue
- Remove paint residue
- Remove silicon joints

Technical Data	
Art.-No.	Blade size mm
5717 52 26	52 x 26
5717 52 45	52 x 45

Article No.	Article Description	QTY
5717 52 26	HCS SCRAPER RIGID 52X26MM	1
5717 52 45	HCS SCRAPER FLEXIBLE 52X45MM	1



5717 52 26

5717 52 45

HCS Universal Joint Cutter

- Suitable for cutting soft expansion joints
- Particularly suitable for cutting window putty (sealant)
- Cutting insulation material

Technical Data	
Art.-No.	Blade size mm
5717 28 55	28 x 55

Article No.	Article Description	QTY
5717 28 55	HCS UNI.JOINT CUTTER 28X55MM	1



Dewalt-Multit-Cutter Accessory

- Exact cuts
- clean joint separation
- cutting fabrics and coverings
- fine sanding
- specially hardened teeth
- long endurance and best cutting results



Multi-Tool Set 3-part

- Multi-Tool Accessory Set 3-parts (consisting of 1x Art.-No. 5718 43 50, 1x Art.-No. 5718 43 30 1, 1x Art.-No. 5718 43 10)

Application:

- Wood with nails
- Wood
- Dry construction materials
- PVC

Article No.	Article Description	QTY
5718 43 3	MULTI-TOOL-SET 3-PARTS	1



Detail Saw Blade DT20706

- Especially for cut-outs and recesses
- 16 teeth per inch
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- Wood with nails
- Wood
- Dry construction materials
- PVC

Article No.	Article Description	QTY
5718 43 10	DETAIL SAW BLADE 43X10 MM	1
5718 43 10 5	PCK(5)DETAIL SAW BLADE 43X10MM	1



Technical Data		
Art.-No.	Blade size L x B	Toothing
5718 43 10	43 x 10 mm	18 Tpi

Plunge Saw Blade DT 20701

- Saws wood, wood with nails, plastics and plaster board
- Bi-metallic toothing
- 18 teeth per inch
- Maximum cut depth: 43 mm
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multit-Tools

Application:

- Wood with nails
- Wood
- Dry construction materials
- PVC

Article No.	Article Description	QTY
5718 43 30	DETAIL SAW BLADE 43X30 MM	1
5718 43 30 5 1	PCK(5)SAW BLADES 43X30 MM	1



Technical Data		
Art.-No.	Blade size L x B	Toothing
5718 43 30	43 x 30 mm	18 Tpi

Plunge Saw Blade DT 20704

- Bi-metallic toothing, saws wood, plastics and plaster board
- High cutting speed
- Multi-fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- Wood
- Dry construction materials
- PVC



Article No.	Article Description	QTY
5718 43 30 1	BI-METAL-SAW BLADE 43X30 MM	1
5718 43 30 5	PCK(5)BI-METAL SAW BL.43X30MM	1

Technical Data		
Art.-No.	Blade size L x B	Toothing
5718 43 30 1	43 x 30 mm	12 Tpi

Plunge Saw Blade DT 20707

- Titanium coated, for use in metal
- 18 teeth per inch
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- Metal



Article No.	Article Description	QTY
5718 43 30 2	TITANIUM SAW BLADE 43X30 MM	1
5718 43 30 2 5	PCK(5)TITAN.METAL SAW BL 43X30	1

Technical Data		
Art.-No.	Blade size L x B	Toothing
5718 43 30 2	43 x 30 mm	18 Tpi

Plunge Saw Blade DT 20705

- Bi-metallic toothing, saws wood, plastics and plaster board
- High cutting speed
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- Wood
- Dry construction materials
- PVC



Article No.	Article Description	QTY
5718 43 65	BI-METALLIC SAW BLADE 43X65MM	1

Technical Data		
Art.-No.	Blade size L x B	Toothing
5718 43 65	43 x 65 mm	12 Tpi

Scraper DT 20714

- Rigid scraper for DEWALT Multi Tool
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- Sealants
- Paint residues
- Adhesive residues



Article No.	Article Description	QTY
5718 52	SCRAPER 52 MM	1

Titanium Saw Blade DT 20702

- Titanium coated, saws wood, wood with nails, plastics and plaster board
- Titanium coated cutting faces for especially long service life
- 8 teeth per inch
- Maximum cut depth: 55 mm
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- Wood
- Wood with nails
- Dry construction materials
- PVC

Technical Data

Art.-No.	Blade size L x B	Toothing
5718 55 44	55 x 44 mm	18 Tpi



Article No.	Article Description	QTY
5718 55 44	TITANIUM SAW BLADES 55X44 MM	1

Plunge Saw Blade DT 20703

- Bi-metallic toothing, especially for use on hardwood
- Also suitable for plastics and plaster board
- 14 teeth per inch
- Maximum cut depth: 67 mm
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- Hardwood
- Wood
- Dry construction materials
- PVC

Technical Data

Art.-No.	Blade size L x B	Toothing
5718 67 30	67 x 30 mm	14 Tpi



Article No.	Article Description	QTY
5718 67 30	BI-METALLIC SAW BLADE 67X30MM	1
5718 67 30 5	PCK(5)SAW BLADES BI. 67X30MM	1

Sanding Shoe DT 20700

- With extractor fitting
- hook & loop paper attachment

Application:

- For sanding wood, metal and plastic surfaces

Technical Data

Art.-No.	Blade size
5718 93 93	93 x 93 x 93 mm



Article No.	Article Description	QTY
5718 93 93	SANDING SHOE 93X93X93MM	1

Segment Saw Blade DT 20717

- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- For removing grouting from narrow grout lines

Technical Data

Art.-No.	Blade size	Blade thickness
5718 95	95 x 25 mm	3 mm



Article No.	Article Description	QTY
5718 95	SEGMENT SAW BL.HARD METAL 95MM	1

Hard Metal Segment Saw Blade DT 20718

- For removing grouting from wide grout lines
- Special ToughGrit hard metal cutter for fast grout removal
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- For removing grouting from wide grout lines

Technical Data

Art.-No.	Blade size	Blade thickness
5718 95 5 1	95 x 25 mm	5 mm



Article No.	Article Description	QTY
5718 95 5 1	SEGM.SAW BL.HARD MET.OFFS. R95	1

Segment Saw Blade DT 20708

- Bi-metallic toothing, saws wood, wood with nails, plastics and plaster board
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Article No.	Article Description	QTY
5718 100	SEGMENT SAW BLADE 100MM	1
5718 100 5	PCK(5)SEGMENT SAW BLADES 100MM	1



Titanium Segment Saw Blade DT 20709

- Titanium coated, saws wood, wood with nails, plastics and plaster board
- Titanium coated cutting faces for especially long service life
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- Wood
- Wood with nails
- Dry construction materials
- PVC



Technical Data		
Art.-No.	Blade size	Toothing
5718 100 1	100 x 30 mm	22 Tpi

Article No.	Article Description	QTY
5718 100 1	TITANIUM SEGM.SAW BLADE 100MM	1

Segment Saw Blade Offset DT 20710

- Suitable for cutting flush with surfaces
- Bi-metallic toothing, saws wood, wood with nails, plastics and plaster board
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Technical Data		
Art.-No.	Blade size	Toothing:
5718 100 2	100 x 23 mm	22 Tpi

Article No.	Article Description	QTY
5718 100 2	SEGM.SAW BLADE OFFSET 100MM	1
5718 100 2 5	PCK(5)SEGM.SAW.BL.OFFSET 100MM	1



Titanium Segment Saw Blade Offset DT20711

- Titanium coated segment saw blade, 100mm, offset
- Titanium coated cutting faces for especially long service life
- Multi-Fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- Wood
- Wood with nails
- Dry construction materials
- PVC

Technical Data		
Art.-No.	Blade size	Toothing
5718 100 3	100 x 23 mm	22 Tpi

Article No.	Article Description	QTY
5718 100 3	TITANIUM SEG.SAW BL.OFFS.100MM	1



Flexible Scraper

- For removing e.g. silicone joint sealant or soft residues of carpet adhesive or paint, etc.

Article No.	Article Description	QTY
5718 35	SCRAPER FLEXIBLE 35MM	1



Multi-cutter DT 20712

- Multi Material knife cutter for DEWALT Multi Tool
- Multi-fit fitting for quick and easy accessory changes
- Suitable for all leading Multi-Tools

Application:

- Asphalt roof shingles
- Carpet
- Vinyl floor coverings
- Foamed materials

Article No.	Article Description	QTY
5718 100 4	MULTI-CUTTER 100MM	1



Multi-Tool Set, 5-part DT 20715

- Multi-Tools Accessory Set, 5-part

Article No.	Article Description	QTY
5718 100 30 5	MULTI-TOOL-SET 5-PART	1

Contents:

- 2x Art.-No. 5718 43 30: plunge saw blade DT 20701, 43 x 30 mm
- 1x Art.-No. 5718 43 30 1: plunge saw blade DT 20704, Bi-Metal, 43 x 30 mm
- 1x Art.-No. 5718 100 3: titanium segment saw blade offset DT 20711, 100 mm
- 1x Art.-No. 5718 52: spatula DT 20714, 52 mm



5718 43 30

5718 43 30 1



5718 100 3



5718 52

Roll of Cleaning Cloth

- Pre-perforated, with reinforced edges

Art. No. 5413 97 5 1

- Food-safe

Art. No. 5413 20, 5413 30:

- Suitable for inner unrolling
- Outer Ø roll: 290 mm

Art. No. 5413 22:

- Full surface glued



Article No.	Article Description	QTY
5413 10	RO(1000)WIPE 3L-BLUE 38X36CM	e 2 b
5413 10 1	RO(1000)WIPE 3L-WHITE 38X36CM	1
5413 11	RO(1000)WIPE 2L-BLUE 38X36CM	i 4
5413 11 1	RO(1000)WIPE 2L-WHITE 38X36CM	2
5413 16 1	RO(800)WIPE 2L-WHITE 22X30CM	i 6
5413 20	RO(1000)WIPE 2L-WHITE 26X38CM	2
5413 22	RO(1000)WIPE 3L-BLUE 26X38CM	1
5413 30	RO(1000)WIPE 2L-BLUE 22X38CM	2
5413 97	RO(473PC)TISS.3L.WHITE 26X38CM	i 6
5413 97 5 1	RO(500PC)TISS.3L.BLUE 22X38CM	i 6

Cleaning Cloth Rolls **ECO**

- Perforated
- Colour: brown

Article No.	Article Description	QTY
5413 96	RO(473PC)TISSUE 2L.26X38CM ECO	2

(roll width x sheet length)



Roll Holder

- Splitter for exact tear-off
- Floor stand
 - For big rolls up to 42 cm width, and rollable
 - With holder for waste sack
- Wall holder
 - For big rolls up to 40 cm width
 - Can be used in fixed position and mobile
 - Without holder for waste sack

Article No.	Article Description	QTY
5413 90	WIPE FLOOR STAND	1
5413 91	WIPE WALL HOLDER	1
5413 100	WIPE FLOOR STAND W.H.F.WASTE	1



Wipe and Polishing Cloth Classic

- Textile wipes for dry and wet wiping processes
- Extremely tearproof and wetproof
- Solvent resistant
- Lint-free and silicone-free
- Highly absorbent, wringable and re-usable
- Super soft (as soft as a polishing cloth)
- Environmentally friendly, 100 % rayon

Article No.	Article Description	QTY
5413 1	RO(500)WIPE/POL.CLASSIC 40X38	1
5413 2	RO(500)WIPE/P.CLASSIC 30X38CM	1
5413 5	PK(50)WIPE/P.CLASSIC 29X38CM	1

(roll width x sheet length)



Cleaning Tissue 'Katja' A-Tork plus

- Optimum cleaning features
- Highly-absorbent
- Wet-proof and almost lint-free
- For all kinds of cleaning work

Article No.	Article Description	QTY
5413 25	RO(750)CLEAN.TISS.KATJA34X24CM	2



Wipe AIRFLEX II

- The highly absorbent Airflex-wipes are ideally suitable for cleaning and drying smooth surfaces
- Soft and still tear-proof, even in wet condition
- The Airflex-Wipe absorbs liquids and oils quickly and enables an efficient cleaning without repeated wiping off

Technical Data

Roll:	500 Sheets
Dimension WxL (sheet):	325 x 385 mm
Absorbing capacity H2O:	400 g/m ²
Tear resistance:	
- Lengthwise	510 N/m
- Transverse	455 N/m
- Transverse/wet	115 N/m
Colour:	blue

Article No.	Article Description	QTY
5413 14	RO(500)WIPE AIRFLEX II 33X38CM	1



Fibre Fleece Cloths

- Bright coloured
- Multi-usable textile wipes with contents of cotton
- Extremely tearproof and wetproof
- Solvent resistant
- Highly absorbent and wringable
- Re-usable
- Soft

Article No.	Article Description	QTY
5413 9	RO(250)FIBRE FLEEC.C.29X38CM	2



Cleaning Tissue Polypropylene Wet/Dry

- Clean and economic alternative for numerous application fields
- Removes also stubborn dirt
- Solvent resistant
- Lint-free
- Robust
- Food safe
- Washable, smear-resistant

Fields of application:

- Paint works
- Vehicle preparation
- Automobile workshops
- Canteen kitchens
- Food industry
- Industrial cleaning

Technical Data	
Material:	100% Polypropylene
Roll:	500 tissues
Dimension W x L (tissue):	380 x 320 mm
Grammage:	75g/m ²
Colour:	blue
Heat resistant:	up to 120°C



Article No.	Article Description	QTY
5413 13	RO(500)CLEA.TIS.WET/DRY38X32CM	1

Spunlace Cleaning Cloth

- cleaning cloth for highest requirements with regard to tensile strength, lint-freedom and abrasion resistance
- the creped surface and the pulp content in the fibre mixture ensure a rapid and high liquid and dirt pick-up and holding
- for wet and dry application for many demanding wiping, polishing and cleaning work operations, also in connection with solvents
- resistant to solvents and to be used several times

Technical Data		
	Dispenser box	Roll
Grammage:	73 g/m ²	73 g/m ²
Thickness:	0,45 mm (±0,07)	0,45 mm (±0,07)
Dimension:	30 x 36 cm	30 x 38 cm
Roll diameter:	-	ca. 27,5 cm
Sleeve diameter:	-	6,0 cm
Colour:	turquoise	turquoise
Material:	55 % Cellulose / 45 % Polyester	55 % Cellulose / 45 % Polyester
Surface:	crepped	crepped
Water absorptive capacity:	> 3,0 g/100 cm ²	> 3,0 g/100 cm ²



5413 15

5413 15 1

Article No.	Article Description	QTY
5413 15	P(150)SPUNLACE-WIPE CREPED	1
5413 15 1	RO(500BL)SPUNLACET.GEK.30X38CM	1

Paper Towel Dispenser

- for washrooms, toilets, etc.
- Also ideally suited for workshops, gas stations, sales rooms etc.
- No paper clogging and removal of individual sheets
- Visually appealing wall-mounted dispenser

Art.-No. 5413 56:

- Paper towel dispenser, empty
- White / black
- Usable with or without closing function
- Easy refilling, dispenser opens to the top
- Easy removal of paper towels, irrespective of filling level
- Dimensions (H x W x D): 45.0 x 30.1 x 14.6 cm
- 1.66 kg

Art.-No. 5413 57:

- Paper towel dispenser
- completely equipped with paper towels
- 3,000 pieces

Art.-No. 5413 51 1:

- Paper towels
- natural, 2 layers
- Dimensions (H x W): 23.2 x 23 cm
- 3,000 pieces

Art.-No. 5413 52 1:

- Paper towels
- natural, 1 layer
- Dimensions (H x W): 23.2 x 23 cm
- 5,000 pieces

Art.-No. 5413 53 1:

- Paper towels
- white, 2 layers
- Dimensions (H x W): 23.5 x 25 cm
- 3,024 pieces



Article No.	Article Description
5413 56	PAPER TOWELS DISPENSER EMPTYII
5413 57	PAPER TOWELS DISPENSER 3000 II
5413 51 1	KT(3000)P-TOW.2-LA.NA.23.2X23
5413 52 1	KT(5000)P-TOW.SIN.L.NA.23.2X23
5413 53 1	KT(3024)P-TOW.1LA.WH 23,5X25

Cleaning Cloth Roll for Centerfeed and Dispenser

- cleaning cloth roll for use with centerfeed
- external feed possible
- 2 layers, hygienic, highly absorbent and tear-resistant
- food safe
- compact dispenser, easy to mount
- easy refilling with and without key
- cuts cleanly, no paper dust
- replaceable paper cutting

Application Fields:

- commercial kitchens
- sanitation
- filling stations
- maintenance workshops

Art.-No. 5413 60:

- without content



5413 60



5413 60 1

Technical Data

Cleaning paper roll

Colour:	white
Layers:	2
Weight:	0,957 kg
Grammage per sheet:	18 g/m ²
Roll Ø:	200 mm
Roll height:	190 mm
Roll core:	71 mm
Roll length:	135 m
Sheets:	450
Height of sheet / Length:	190 mm / 300 mm

Dispenser

Colour:	light grey
Material:	plastic
Weight:	1,4 kg
Dimensions (mm):	H: 388 / W: 260 / D: 230



Article No.	Article Description	QTY
5413 60	DISPENSER FOR CENTERFEED	1
5413 60 1	R(450S)CLEAN.CL.2L-WHI.30X19CM	6

Wiping and cleaning cloths

- disposable wiping cloth
- voluminous and very absorbent
- lint-free cleaning
- high tear strength, even when wet
- suitable for most surfaces
- dimensions: 330x315 mm
- ideal for:
 - routine cleaning in industry
 - general maintenance work
 - effective cleaning of assembly lines
 - care in the health service"

Article No.	Article Description	QTY
5413 4	WIPE-CLEANING TISSUE	56



Kitchen Towel

- high quality kitchen towel
- soft, absorbent and lint-free
- food safe
- fits in all common dispenser

Technical Data

Colour:	white
Layers:	3
Weight per roll:	0,185 kg
Grammage per sheet:	17,33 g/m ²
Roll diameter:	110 mm
Roll height:	260 mm
Roll core Ø:	43 mm
Roll length:	12,24 m
Sheets:	51
Height of sheet / length:	260 / 240 mm



Article No.	Article Description	QTY
5413 65	PK(4)KI-TO(51SH)3LA-WH 24X26CM	1

Toilet Paper Rolls

- Soft 3-layered toilet paper
- 250 papers per roll
- Dimensions (paper): 10 x 12cm
- Colour: white

Article No.	Article Description	QTY
5413 48	THREE-LAY.TOIL.PAP.WHITE(PK48)	1



Cleaning Clothes, Thin

- Disposable cleaning clothes
- Tested in accordance with DIN EN 61650
- Without hooks, eyelets and buttons

Article No.	Article Description	QTY
5413 35	PK(10KG)CLEANING CLOTHES THIN	1
5413 36	PK(25KG)CLEANING CLOTHES THIN	1



Cleaning-Fleece, Colourful

- Disposable cleaning-fleece, cut
- Size LxW: 40 x 40 cm

Article No.	Article Description	QTY
5413 37	PK(10KG)CLEAN.-FLEECE COLOURF.	1



Terry Towelling Polishing Cloths

- Disposable terry towelling cloths
- Colours may vary
- Area of application, e.g., vehicle preparation

Article No.	Article Description	QTY
5413 38	PCK(10KG) POLISHING CLOTHS	1



Oil Drip - Towel

- High absorbency of oil, fuel and other hydrocarbons
- Water-repellent
- Absorbency: 1 towel = 0.78l heating oil
- Size: 40 cm x 50 cm

Article No.	Article Description	QTY
6190 9506	OIL DRIP TOWEL WHITE 50X40CM	g 200



SMF oil-absorbent cloth

- Triple-layer structure with a specially reinforced surface and a leak-proof, non-slip film on the underside
- Ideal for protecting floors and workbenches, and as underlay when handling oils and fuels, as well as in the repair of facilities and machines in the open air
- Water repellent
- Absorbency: 3.4 l/m²;

Dimensions:

- Art.-No. 6190 9530: 0.8 m x 30 m
- Art.-No. 6190 9531: 0.4 m x 0.5 m

Article No.	Article Description	QTY
6190 9530	RO(30M)OIL DRIP TOWEL SMF 80CM	1
6190 9531	P(30)OIL DRIP TOWL SMF 50X40CM	1



6190 9530



6190 9531

Barrel cover, grey

- For standard 200-litre steel barrels
- Suitable for oils, coolants, lubricants and solvents, as well as other water-based fluids
- Reinforced and lint-free on the top surface
- Pre-punched holes for easy access to barrel contents
- Absorbency: 1.26 l/barrel cover
- Outer surface-Ø: 56 cm

Article No.	Article Description	QTY
6190 9532	P(25)FOOT COVER GREY Ø56CM	1



Oil-binding Granulate

- Extremely absorbable PU-granulate for safe absorption of mineral oils, oil-containing chemicals and fuels
- Due to its higher specified weight it is particularly appropriate for streets, parkings etc. no matter what the weather conditions
- Has, thus enough fine-particle share in order to extract oil out of rips

Common characteristics:

- Does not absorb water, which otherwise would have to be disposed of expensively. Thus also ideal for the absorption of oils on wet surfaces
- Does not relpase absorbed materials
- Non-slippy, also in wetness
- Does not cause scratches on flagstones and plastic-coated garage and industrial floors
- Time-unlimited application

Attention:

- Granulate is a hazardous waste after use and has to be disposed of at a suitable site
- Residue-free disposal and thermal energetic recycling by burning is possible



Technical Data

Art.-No.:	6190 9500	6190 9505
Description:	Bag (50 l) oil binding granulate	Bag (40 l) all-weather oil binding compound
Base material:	PU foam, water-resistant	Recycled PU foam, water-resistant
Suitable for:	Bodies of water, roads, and traffic areas	Roads and traffic areas
Types:	Type I, II, III R SF	Type III R
Form:	Granulate	Granulate
Colour:	yellowish-beige	grey
Bulk weight:	250 g/l	395 g/l
pH value:	5.69	9.2
Absorption capacity, litre - litre:	1 l oil binder binds 0.44 l of oil	1 l oil binder 0.40 l of oil
Absorption capacity, kg - litre:	1 kg oil binder binds 1.76 l of oil	1 kg oil binder binds 1.01 l of oil
Absorption capacity, kg - kg:	1 kg oil binder binds 1.43 kg of oil	1 kg oil binder binds 0.82 kg of oil
Grain size distribution > 4 mm:	32.3 Weight %	15.7 Weight %
Grain size distribution 4–0.5 mm:	51.7 Weight %	70.5 Weight %
Grain size distribution 0.5–0.125 mm:	15.0 Weight %	9.7 Weight %
Grain size distribution < 0.125 mm:	1.0 Weight %	4.1 Weight %
Land transport ADR / RID:	Not hazardous goods	Not hazardous goods
Labelling elements:	The product does not require labelling in accordance with EC Directives	The product does not require labelling in accordance with EC Directives

Article No.	Article Description	QTY
6190 9500	OIL-BINDING GRANULATE 50L	1
6190 9505	(40L)ALL-WEATHER OIL-B.GRANUL.	1

Oil-binding Granulate Absodan Plus

- Binds all kinds of liquids on any fixed surface
- Due to its fine grinding it penetrates easily into the smallest rips and cavities
- Optimum non-slippyness reached by full granulate saturation
- Very appropriate for absorption processes which require strong contacts to the surfaces and fast absorption, e.g. on areas with a lot of traffic, where fast absorption and cleaning is often crucial.
- Quick-acting
- High absorption power
- Multi-purpose binder V = approved security

Multiple-purpose Marking V

- In order to protect the environment and user having daily contact with liquid chemicals the Federal Office of Environment (LTwS-No. 31) published the “Requirements of chemical binders” .

The Markings are:

- **A** = Acid binder
- **B** = Binder for alkaline substances (bases)
- **F** = Binder for inflammable liquids
- **H** = Oil-binder type III/R
- **O** = Binder for oxidative substances
- **P** = Binder for aqueous and polar liquids
- **V** = **Multi-purpose binder**
- The description Multi-purpose Binder with the marking V is only given to binders, which are tested and approved on the absorption of any chemicals as single binders and therefore all have code letters.
- The granulate has all the code letters and is the first tested Multiple-purpose Binder with valid MPA-test-certificate.
- Density: 20 kg corresponds to 40 litres

Art. No. 6190 9502:

- Grain 0.5 – 1.0 mm

Art. No. 6190 9503:

- Grain 0.3 – 0.7 mm



Article No.	Article Description	QTY
6190 9502	OIL-BIND.GRANUL.ABSODAN+ 20KG	1
6190 9503	SAC(10KG)OIL BIND.GRAN.SUPERP.	1

LED lamp explosion-proof sensor Z0

- Ex II 1 G Ex ia IIC T4 Ga
- Ex II 1 D Ex ia IIIC T 85 °C Da
- High light output from Power LED
- Long service life
- Shock-proof casing
- Sensor for automatic adjustment of the light intensity
- Battery charge indicator
- Antistatic thermoplastic
- Fluorescent lamp head
- Extremely versatile thanks to high light intensity and duration
- E.g. Chemical industry, oil industry, food industry, wood-processing industry, aerospace industry, tanker vehicle construction, petrol stations, fire brigades, German Technical Relief Service (THW)
- In accordance with DIN 14649

Note:

- Use Art.-No. 3880 15 3 batteries, otherwise no certification



Technical Data

Light colour:	white
Illuminant:	1× 3 Watt LED Cree XP-G2
Service life:	min. 50,000 operating hours
Luminous flux:	135 Lumen
Light ON time:	approx. 30 h
Lighting range:	approx. 80 m
Colour temperature:	6,500 Kelvin
Working temperature:	-20 °C to +80 °C
IP protection class:	IP 67
Battery type:	4× AAA
Length:	150 × 38 × 44 mm
Weight:	145 g
Head diameter:	44 mm



Article No.	Article Description	QTY
3885 260	LED INSP.LAMP SENSOR Z0 EX	1

Scope of delivery Art.-No. 3885 260:

- 1× LED inspection lamp Z0
- Helmet adapter (e.g. Gallet, Casco, Bullard)
- Batteries (4× micro)

LED lamp, explosion-proof Z1

- Ex II 2 G Ex ib IIC T4 Gb
- Ex II 2 D Ex ib IIIC T 135 °C Db
- High light output from Cree LED
- Long service life
- Shock-proof casing
- Extremely versatile thanks to high light intensity and duration
- E.g. Chemical industry, oil industry, food industry, wood-processing industry, aerospace industry, tanker vehicle construction, petrol stations, fire brigades, German Technical Relief Service (THW)
- In accordance with DIN 14649

Note:

- Use Art.-No. 3880 15 1 batteries, otherwise no certification.



Technical Data

Light colour:	white
Illuminant:	1× 3 Watt Cree LED
Service life:	min. 50,000 operating hours
Luminous flux:	200 Lumen
Light ON time:	approx. 10 h
Lighting range:	approx. 150 m
Colour temperature:	7,000 Kelvin
Working temperature:	-20 °C to 40 °C
IP protection class:	IP 68
Battery type:	4× AA
Length:	172 × 41 mm
Weight:	167 g
Head diameter:	41 mm

Article No.	Article Description
3885 270	LED INSPECTION LAMP Z1 EX 1

Scope of delivery Art.-No. 3885 270:

- 1× LED inspection lamp Z1
- 4 x Batteries (4× Mignon)

LED torch Lenser® X21.2 FORCH*****

- X-lens technology: bundled, sharply focused searchlight beam
- Advanced Focus System(AFS): particularly uniform light cone in the defocussed area (no shadow areas)
- 3 brightness settings due to dynamic adjustment knob
 - Press button 1x: full beam
 - Press button 2x: dimmed light
 - Press button 3x: high-frequency flashes
 - Press button again: switched off
- Use of rechargeable batteries is permitted

Your Advantage / Benefit

- Very good light output due to 7 ultra-bright, high-performance chips and 7 front lenses
- Light cone can be adjusted dynamically by Advanced Focus System, wide, circular near beam or bundled, sharply focused searchlight beam
- Versatile deployment as a result of the high light strength and lighting ON time (security and rescue services, police, hunters, etc.)
- Hard gold-plated contacts, giving optimal energy flow and corrosion resistance



7 ultra-bright, high-perf.chips



hard gold-plated contacts



Technical Data

Light colour:	White
Illuminant:	LED 7x 3W High End Power
Light flux:	
- High Power:	1.500 Lumen
- Low Power:	250 Lumen
Lighting duration approx.	
- High Power:	10 h
- Low Power:	50 h
Lighting range approx.:	
- High Power:	600 m
- Low Power:	250 m
Protection type:	IP X4
Length:	397 mm
Head diameter Ø:	95
Weight:	1.400 g
Material:	aluminium, black anodised

Application



Article No.	Article Description	QTY
3885 55	LED TORCH LENSER X21.2 5*	1

Scope of delivery:

- Plastic carrying-case
- Carrying strap
- Batteries (4x mono)

Related Products

- **LCD Universal Charger**
Art.-No. 3883 17



- **Rechargeable Power Accu - VARTA**
Art.-No. 3883 12



- **Power Battery 1,2 V**
Art.-No. 3883 12 4



LED torch Lenser P7R **FÖRCH*******

- Extremely high light output with ultra bright Xtreme Power LED
- Highly concentrated long-distance light (focused)
- Innovative charging system (Floating Charge System)
- Patented Advanced Focus System
- Speed Focus® (single-hand focusing)
- Fast Lock (infinitely variable focus adjustment)
- Durable sliding carriage mechanics
- New, matt coating minimises light reflexes
- Electronic control with microchip (SLT = Smart Light Technology)
 - In the event of weak batteries, the lamp starts to flash
 - Overheating protection regulates the light flow down to the next smaller mode when the maximum operating temperature has been reached

Technical Data	
Light colour:	white
Light source:	1x High End Power LED
Luminous flux	
- High power:	1,000 lumen
- Power:	250 lumen
- Low power:	20 lumen
Lighting duration approx.	
- High power:	2 h
- Power:	5 h
- Low power:	40 h
Light range approx.	
- High power:	210 m
- Power:	150 m
- Low power:	40 m
Working temperature:	-20 °C to +40 °C
Protection type:	IPX4
Length:	166 mm
Weight:	210 g
Material:	Aluminium, black, anodised



Article No.	Article Description	QTY
3885 66	LED TORCH LENSER P7R 5*	1
3885 34 1	LITHIUM IONEN BATT.ICR 18650	1

Scope of delivery:

- Floating Charge System with USB connection
- Wrist strap
- Operating instructions
- Smart instruction card
- Intelligent clip
- Incl. lithium-ion battery
- Belt pocket

LED Torch Lenser® P7 **FÖRCH*******

- The latest LED technology
- Patented Advanced Focus System
- Rapid focus
- Durable sliding carriage mechanics

Your Advantage / Benefit

- Around four times higher light output than conventional, heavy torches with bulbs
- Indestructible technology with extreme durability
- Excellent illumination
- The red ring with holes shows that the lamp is still on when it is turned upside down
- Versatile applications thanks to high light strength and light ON time (workshops, security and rescue services, hunters, etc.)
- Splash-proof to IP X4
- Contacts hard gold-plated, ensuring optimal energy flow and higher corrosion resistance



hard gold-plated contacts



Splash water protection according to IP 54



Application

- One-handed focusing



Technical Data	
Light colour:	white
Light source:	High-power LED
Luminous flux	
- High power:	450 lumens
- Power:	250 lumens
- Low power:	40 lumens
Lighting duration approx.	
- High power:	1 h
- Power:	2 h
- Low power:	25 h
Light range approx.	
- High power:	300 m
- Power:	220 m
- Low power:	100 m
Protection type:	IPX4
Length:	130 mm
Head diameter Ø:	37 mm
Weight:	175 g
Material:	Aluminium, black, anodised

Article No.	Article Description	QTY
3885 62	LED TORCH LENSER P7 5*	1

Delivery includes:

- Belt pocket
- Carrying loop
- Batteries (4x micro)

LED Rechargeable Torch Lenser® P5R FÖRCH****

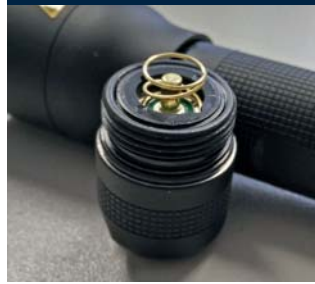
- Advanced Focus System (AFS)
- Electronic control with microchip (SLT = Smart Light Technology)
- Homogeneous light circle (defocused)
- Highly concentrated long-distance light (focused)
- Speed focus (single-hand focusing)
- Fast lock: can be fixed in any focusing position by turning the head
- Three brightness levels/functions:
 - 1: Power
 - 2: Low power
 - 3: High-frequency flashes



Your Advantage / Benefit

- Slim design, ideal for tight spaces
- Thanks to the red ring with holes you can see if the lamp is still on when it is turned upside down
- Contacts hard gold-plated, ensuring optimal energy flow and higher corrosion resistance

hard gold-plated contacts



Possibility of control due to red ring



Application

- Innovative charging system (floating charge system): the battery does not need to be removed for charging thanks to magnetic contacts
- USB charging system: suitable for charging via computer or other digital media, using a USB cable



Technical Data	
Light source:	LED high power
Light colour:	White
Luminous flux	
- High power:	420 lumens
- Low power:	20 lumens
Light ON time	
- High power:	3 h
- Low power:	15 h
Lighting range	
- High power:	240 m
- Low power:	50 m
Protection type:	IPX 4
Battery type:	1x ICR 14500 Li-Ion
Energy tank:	2.59 Wh
Length:	117 mm
Weight:	75 g
Material:	Aluminium, black, anodised

Article No.	Article Description	QTY
3885 67	LED RECHAR.TORCH LENSER P5R 5*	1
3885 45 1	LITHIUM IONS BATTERY ICR 14500	1

- Delivery includes:**
- Charging station
 - Intelligent clip, hand strap
 - Operating instructions
 - Smart instruction card
 - Incl. lithium-ion battery

LED Rechargeable Torch Lenser® F1R FÖRCH****

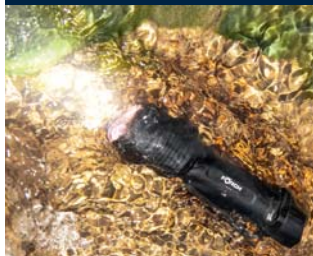
- extremely high light output due to ultra-bright Xtreme Power LED
- new mat coating minimises light reflection
- electronic regulation by microchip (SLT= Smart Light Technology)
 - lamp starts flashing when batteries low
 - overheating protection regulates light intensity: when it reaches max.operating temperature, torch switches down to next power level



Your Advantage / Benefit

- waterproof up to 2.5 metres depth (IPX8)
- slim design, ideal in confined spaces
- torch length of only 115 mm means it fits snugly in the hand thanks to SLT technology, power level can be suited to customer's needs
 1. Power levels= High Power / Power / Low Power
 2. Power levels= High Power / Power / Low Power

water-proof according to IPX8



USB-charging system is suitable for al digital media



Technical Data

Lamps:	Xtreme Power LED
Luminous flux	
-High Power	1000 Lumen
-Power	250 Lumen
-Low Power	10 Lumen
Duration	
-High Power	3 hrs
-Power	6 hrs
-Low Power	60 hrs
Beam distance	
-High Power	160 m
-Power	80 m
-Low Power	20 m
Battery type:	1x ICR 18650
Energy capacity:	8.14 Wh
Type of protection:	IPX 8
Length:	115 mm
Weight:	120 g
Material:	Aluminium, HA III anodisation

Application



Article No.	Article Description	QTY
3885 58	LED-RECH.TORCH LENSER F1R 5*	1
3885 34 1	LITHIUM IONEN BATT.ICR 18650	1

Included in delivery:

- charging cradle with USB connection
- variable clip, wrist strap
- design ring, tactical ring
- lens cleaning cloth
- cleaning brush
- replacement O-ring
- instructions
- includes lithium-ion battery

LED Pocket Lamp-Lenser® P4 **FÖRCH*******

- High illumination performance
- Clip for shirt and coat pocket
- Can be focused by slight turning at the lamp head
- Use of accumulator not allowed

Technical Data	
Light colour:	white
Illuminant:	LED 1x Nichia High End
Luminous flux:	14 Lumen
Illumination period approx.:	approx. 80 hrs
Luminous range approx.:	approx. 27 m
Protection class:	IP 54
Length:	140 mm
Material:	aluminium, black anodized



Article No.	Article Description	QTY
3885 23	LED POCKET LAMP-LENSER P4 5*	1 s
3885 23 1	PUSH BUTTON F. P3 AND P4	1

Scope of delivery:

- Belt bag, fixing clip, hand strap and batteries (2x Micro)

LED Pocket Lamp-Lenser® P3 **FÖRCH*******

- High illumination performance
- Clip for shirt or coat pocket
- Focusable
- Use of accumulator not allowed

Technical Data	
Light colour:	white
Illuminant:	LED 1x Nichia High End
Luminous flux:	16 lumen
Illumination period approx.:	6.5h
Luminous range approx.:	31 m
Protection class:	IP 54
Length:	93 mm
Material:	aluminium, black anodized



Article No.	Article Description	QTY
3885 32	LED POCKET LAMP-LENSER P3 5*	1 s

Scope of delivery:

- Belt bag, fixing clip, hand strap and battery (1x Micro)

LED torch Lenser® i5

- very good light output
- clip for shirt and overall pocket
- can be focussed one-handed
- re-chargeable batteries may not be used

Technical Data

light colour:	white
illuminant:	1x LED High End Power
light flux:	80 lumen
lighting duration:	approx. 4 hrs.
lighting range:	approx. 110 m
protection type:	IPx4
battery type:	1x AA
length:	108 mm
weight:	60 g

Article No.	Article Description	QTY
3885 46	LED TORCH LENSER® I5	1 s

Scope of delivery:

- Belt bag, fastening clip, strap and battery (1 x Mignon)



LED torch Lenser® i6

- Very high light intensity
- Clip for shirt and overall pocket
- One-handed focussing
- Not approved for rechargeable batteries

Technical Data

Light colour:	white
illuminant:	1x Power LED
Luminous flux:	
Power:	140 lumen
Low power:	10 lumen
Lighting duration approx.:	
Power:	Approx. 5 h
Low power:	Approx. 25 h
Light range approx.:	
Power:	approx. 140 m
Low power:	approx. 30 m
Protection type:	IPX 4
Battery type:	3x AAA
Length:	167 mm
Weight:	75 g
Material:	Aluminium, HA III anodised

Article No.	Article Description	QTY
3885 47	LED TORCH LENSER® I6	e 12

Delivery includes:

- Belt pocket, fastening clip and batteries (3x micro)



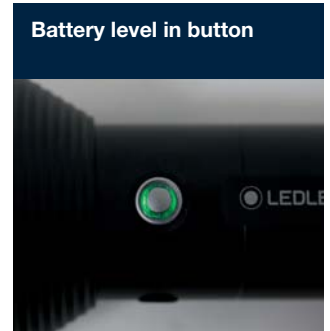
LED Rechargeable Torch Lenser® i18R FÖRCH*****

- X-lens technology: focused, sharp searchlight beam
- Advanced Focus System (AFS): particularly even light cone in the defocused area (no shadow rings)
- Micro-controller
- Temperature control
- 3 Brightness-levels via dynamic adjusting knob
 - Press button 1x: full light
 - Press button 2x: dimmed light
 - Press button 3x: strongly dimmed light
 - Press button once more: switch off
- High-frequency flashes:
 - Press button 1x: full light, then press and hold the button = light flashes
- Durable sliding carriage mechanics



Your Advantage / Benefit

- Extremely high light output through 3 ultra bright Xtreme Power LED chips
- Light cone can be adjusted dynamically via the Advanced Focus System, broad, circular low beam or high-focused, sharp searchlight beam
- Versatile deployment as a result of the extremely high light strength and light ON time (security and rescue services, police, hunters, etc.)
- Contacts hard gold-plated, ensuring optimal energy flow and corrosion resistance
- Charging / battery indicator
- Transport lock
- Roll-away protection



Technical Data

Light colour:	white
Light source:	Xtreme-LED
Luminous flux	
- High power:	3,000 lumens
- Power	600 lumens
- Low power:	30 lumens
Lighting duration approx.	
- High power:	5 h
- Power	9 h
- Low power:	96 h
Light range approx.:	
- High power:	540 m
- Power	260 m
- Low power:	80 m
Protection type:	IPX4
Length:	170 mm
Head diameter Ø:	85 mm
Battery type:	1x 1S3P 18650
Energy tank:	37.74 Wh
Weight:	620 g
Material:	Aluminium, black, anodised

Application



Article No.	Article Description	QTY
3885 68	LED RECHA.TORCH LENSER I18R 5*	1

Delivery includes:

- Includes lithium-ion battery
- Wrist strap
- Operating instructions
- Smart instruction card
- USB charging cable
- Charging device
- Roll-away protection

LED Torch Lenser® i²

- Very good light output
- Van be focused one-handed
- Re-chargeable batteries may not be used

Technical Data	
Light colour:	white
Illuminant:	1× LED High End Power
Light flux:	105 Lumen
Lighting duration:	approx. 6.5 hrs
Lighting range:	approx. 170 m
Protection type:	IPX 4
Battery type:	3× AAA
Length:	101 mm
Weight:	110 g



Article No.	Article Description	QTY
3885 48	LED TORCH LENSER® i ²	e 12

- Scope of delivery:**
- Belt bag, strap and batteries (3 x micro)

UV LED Torch 5-watt

- Ultra-bright UV high-power LED torch
- For locating leaks in air conditioning, water cooler, engine oil, gearbox oil and power steering systems
- Adjustable focus for identification of even the smallest leaks
- Suitable for contrast agent 134a and R1234yf
- Also suitable for curing of repair resin during laminated glass repairs
- MBS System:
 - Multi-battery system
 - Compatible with different battery types, e.g. AAA Alkaline, CR123, ICR18650, AAA Ni-MH

Technical Data	
Light colour:	violet
Light source:	UV high-power LED
Wavelength:	395 nm
Lighting duration approx.:	3.30 hrs
Lighting range:	28 m
Protection type:	IP X4
Working temperature:	-20 °C to +50 °C
Material:	Aluminium, black, anodised
Battery type:	3× AAA
Length:	145 mm
Weight:	140 g



Article No.	Article Description	QTY
3885 80	UV-LED TORCH UV 5	1

- Scope of delivery:**
- Belt pocket, battery sleeve, AAA battery magazine, blue roll stop, spare sealing rings,

LED Torch F-Series

- Very high light intensity
- Three brightness levels
- Highly robust
- Splash-proof

Art.-No. 3885 300:

- With retaining clip



Technical Data						
Art.-No.:	3885 300	3885 301	3885 302	3885 303	3885 304	3885 305
Light source:	Toshiba High Performance LED	Toshiba High Performance LED	Cree XPG High Performance LED	Toshiba High Performance LED	Toshiba High Performance LED	Toshiba High Performance LED
Light colour:	white	white	white	white	white	white
Colour temperature:	7,700 K	7,700 K	4,700 K	4,700 K	7,700 K	7,700 K
Luminous flux:						
High power:	100 lm	200 lm	250 lm	600 lm	200 lm	200 lm
Power:	30 lm	60 lm	70 lm	200 lm	60 lm	60 lm
Flash:	100 lm	200 lm	250 lm	600 lm	200 lm	200 lm
Lighting duration approx.:						
High power:	1.5 h	2.0 h	1.5 h	8.0 h	7.0 h	22.0 h
Power:	3.0 h	4.0 h	3.0 h	15.0 h	15.0 h	45.0 h
Flash:	-	-	-	-	-	-
Light range approx.:	50 m	80 m	100 m	150 m	120 m	120 m
Protection type:	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Battery type:	2x AAA	3x AAA	3x AAA	3xC	2xD	3xD
Length:	140 mm	120 mm	120–135 mm	204–217 mm	245 mm	306 mm
Diameter max.	15.5 mm	32 mm	35 mm	41 mm	51 mm	51 mm
Diameter min.	15.5 mm	28.5 mm	28.5 mm	33 mm	40.5 mm	40.5 mm
Weight incl. batteries:	54 g	113 g	143 g	421 g	590 g	776 g
Material:	Aluminium, black anodised	Aluminium, black anodised	Aluminium, black anodised	Aluminium, black anodised	Aluminium, black anodised	Aluminium, black anodised
Focusable:	No	No	Yes	Yes	No	No

Article No.	Article Description	QTY
3885 300	LED TORCH F300	1
3885 301	LED TORCH F301	1
3885 302	LED TORCH F302	1
3885 303	LED TORCH F303	1
3885 304	LED TORCH F304	1
3885 305	LED TORCH F305	1

Scope of delivery:

- Includes batteries

LED Pocket Lamp

- Super bright due to innovative CREE-high performance LEDs
- Made of aircraft-aluminium
- Extremely robust, long-life, impact and scratch resistant
- Splash-proof

Advantages of Cree-LED:

- Low operating costs
- Extreme brightness
- Long illumination time
- Extremely long service life
- High product reliability

Technical Data				
	CREE 282 mm	CREE 242 mm	CREE 175 mm	CREE 113 mm
illuminant:	CREE 3.0 W	CREE 3.0 W	CREE 3.0 W	CREE 3.0 W
Light flux:	200 Lumen	180 Lumen	160 Lumen	80 Lumen
Lighting duration:	approx. 30 hrs.	approx. 20 hrs.	approx. 4 hrs.	approx. 2 hrs.
illumination width:	approx. 250 m	approx. 160 m	approx. 150 m	approx. 80 m
Battery type:	3x Mono D	3x Baby	2x Mignon AA	1x Mignon AA
Length:	282 mm	242 mm	175 mm	113 mm
(Batteries included in delivery)				



Article No.	Article Description	QTY
3885 43	LED-POCKET LAMP "CREE" 282MM	1
3885 22	LED POCKET LAMP 'CREE' 242MM	1
3885 39	LED-POCKET LAMP "CREE" 175MM	1
3885 38	LED-POCKET LAMP "CREE" 113MM	1

LED Torch with Zoom

- Sturdy light metal housing
- Focusable
- Very compact
- 3 brightness levels:
Level 1: 110 lumen
Level 2: 70 lumen
Level 3: flash light



Technical Data	
Light colour:	white
illuminant::	1x LED CREE
Light flux:	level 1: 110 lumen level 2: 70 lumen level 3: flash light
Lighting duration:	level 1: 6 hrs. /level 2: 10 hrs. /level 3: 12 hrs.
Battery type:	3x micro (included in delivery)
Length:	104 mm

Article No.	Article Description	QTY
3885 37	LED-POCKET LAMP WITH ZOOM	1

LED Lamp Head Fire Cree

- Head lamp with Power-Chip and Cree LED
- LED service life up to 100.000 hours
- Lamp head 90° pivotable
- Application with batteries possible

Technical Data	
Light duration:	max. 36 hrs.
Weight:	140 g
Length:	29 mm
Diameter:	22 mm
Lumen:	100
Light distance:	approx. 145 m
Battery:	3 x Micro (included in delivery)

Article No.	Article Description	QTY
3885 29	LED LAMP HEAD FIRE CREE	1



LED headlamp Multi 5 W

- LED Cree XTE 5 Watt
- Extremely bright pivoting headlamp
- Broad illumination
- Red light
- 3 brightness levels
- 3 lighting modes
- Elastically adjustable headband
- SOS whistle
- Batteries may be used
- Suitable batteries (not included in the scope of delivery):
- 3x Art.-No. 3880N 15 3 Micro 1.5 V or
- 3x Art.-No. 3883 12 7 micro-power battery

Technical Data	
Illuminant:	1x 5 W Cree XTE
Light ON time:	
100 %	5 h
50 %	12 h
25 %	45 h
Luminous flux:	
100 %	200 Lumen
50 %	80 Lumen
25 %	40 Lumen
Lighting range:	
100 %	60 m
50 %	35 m
25 %	15 m
Protection type:	IP X5
Working temperature:	-15 °C to 55 °C
Battery type:	3x AAA
Dimensions (L x W x H):	57 x 37 x 43 mm
Weight:	50 g



Red light



SOS whistle



Article No.	Article Description	QTY
3885 60	LED HEADLAMP MULTI 5 WATT	1

Felt Band Vibro-Soft

- Self-adhesive, black
- Band height: 1 mm
- The tape for '1001' options for vibration, sound and noise insulation (chattering)
- For all mounting parts, which are exposed to vibrations and oscillations due to natural vibration of the car e.g. hat helf, headlining, running board, interior carpeting clips, cell phone car mount holder etc.
- In a dispenser cardboard carton

Article No.	Article Description	QTY
5420 20 8	RO(20M)VIBRO-SOFT 8MM	1
5420 20 20	RO(20M)VIBRO-SOFT 20MM	1



Compri Sealing Tape for Car

- Self-adhesive, pre-compressed, black sealing tape
- Sealing and vibration protection purposes in the area of ventilation and heating, bearing areas, cross bracing in the rear lid etc.
- Installation aid to protect against vibrations for car radios, loudspeakers etc.
- To wrap car aeriels (e.g. VW, Ford)
- After releasing the compression a reset force is developing which firmly presses against the gap flank and compensates flatness imperfections
- Temperature resistance from -30°C to 100°C (short-term up to 130°C)
- Material: PUR flexible foam carrier with acrylic dispersion impregnation

Technical Data			
Art.-No.	Width mm	Height compressed mm	Height expended joint width *) mm
5420 40	10	1	1-4
5420 41	15	2	2-6
5420 42	15	4	4-9
5420 43	20	1	1-4

Article No.	Article Description	QTY
5420 40	RO(13M)KOMPR.SEAL.TAPE 10/1-4	1
5420 41	RO(12M)KOMPR.SEAL.TAPE 15/2-6	1
5420 42	RO(8M)KOMPR.SEAL.TAPE 15/4-9	1
5420 43	RO(13M)KOMPR.SEAL.TAPE 20/1-4	1



*) Component movement and temporary length changes of the existing joints have to be considered on determining the appropriate band size

Clamp for Compressed Foam Tape

- For the fixation of compressed foam tape ends to the rolls
- Tape end is clamped to the roll and swelling of the tape end is prevented
- Also suitable for edge veneer rolls
- Clamp opening: 0 – 30 mm

Article No.	Article Description	QTY
8800 30	CLAMP F.COMPR.FOAM TABE 30MM	1
8800 95	CLAMP F.COMPR.FOAM TABE 95MM	1



Adhesive textile tape, flexible

- high quality textile tape
- PE-coated
- water-repellent
- thickness 170 µ
- adhesive on one side
- very flexible
- wide colour range: silver, black, white, red, blue

Art.-No. 3745 1 38 1:

- narrow type 38mm width

Technical Data	
Adhesive:	Hotmelt
Mesh:	27
Thickness:	0,17 mm
Colours:	silver, black, white, red, blue
Ductility:	3 %
Tensile force:	50 N / 25 mm
Temperature resistance:	up to 60 °C



silver 3745 1 48 1 black 3745 1 48 2 white 3745 1 48 3 red 3745 1 48 4 blue 3745 1 48 5

Article No.	Article Description	QTY
3745 1 38 1	RO(50M)ADH.TAPE FLEX.SILV 38MM	s 24
3745 1 48 1	RO(50M)ADH.TAPE FLEX.SILV 48MM	s 24
3745 1 48 2	RO(50M)ADH.TAPE FLEX.BLACK48MM	s 24
3745 1 48 3	RO(50M)ADH.TAPE FLEX.WHITE48MM	s 24
3745 1 48 4	RO(50M)ADH.TAPE FLEX.RED 48MM	s 24
3745 1 48 5	RO(50M)ADH.TAPE FLEX.BLUE 48MM	s 24

Adhesive textile tape, rugged

- high quality textile tape
- PE-coated, shiny surface
- excellent adhesion at low and high temperatures
- good performance on rough surfaces
- excellent tearing and unreeling properties
- leaves no residues
- suitable for indoor and outdoor applications
- very good UV-resistance
- water-repellent
- thickness 300 µ
- adhesive on one side
- wide colour range: silver, black, white, red, blue

Technical Data	
Adhesive:	natural caoutchouc
Mesh:	70
Thickness:	0,30 +/- 0,03 mm
Bond strength:	5,95 N / 25 mm
Tensile force:	59 N / 50 mm
Rewinding force:	19,6 N / 50 mm
Colours:	silver, black, white, red, blue
Ductility:	10 %
Temperature resistance:	-35 °C up to +80 °C



silver 3745 2 50 1 black 3745 2 50 2 white 3745 2 50 3 red 3745 2 50 4 blue 3745 2 50 5

Article No.	Article Description	QTY
3745 2 50 1	RO(50M)ADH.TAPE RU.SILVER 50MM	e 24
3745 2 50 2	RO(50M)ADH.TAPE RU.BLACK 50MM	e 24
3745 2 50 3	RO(50M)ADH.TAPE RU.WHITE 50MM	e 24
3745 2 50 4	RO(50M)ADH.TAPE RU.RED 50MM	e 24
3745 2 50 5	RO(50M)ADH.TAPE RU.BLUE 50MM	e 24

Tesa-Power Strip

- Absolutely tear-proof strapping tape on a PP-film basis with rubber adhesive masses
- Self-adhesive and extreme longitudinal resistance to tearing
- Resistant to heat and cold

Application:

- Fixing of glued screens
- Gluing of lacquered surfaces when cutting / sawing (installation of sun roof)
- Bundling of heavy tubes, strapping of heavy goods, gluing of steel coils (thin steel sheet)



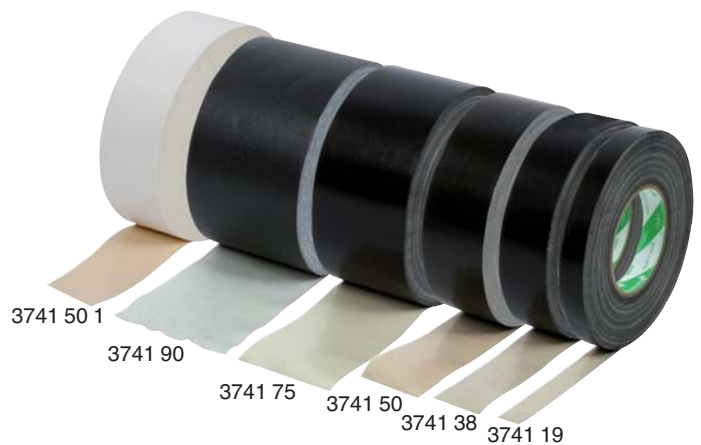
Article No.	Article Description	QTY
3741 50 66	RO(66M)TESA-POW.STR.YELLOW50MM	1

Duct Tape

- Tape with smooth PE-surface coating
- Steam and water-proof
- Silicone-free

Application:

- Fixing of glued screens
- Gluing of lacquered surfaces when cutting / sawing (installation of sun roof)
- Bundling of heavy tubes, strapping of heavy goods, gluing of steel coils (thin steel sheet)



Article No.	Article Description	QTY
3741 19	RO(50M)DUCT TAPE BLACK 19MM	1
3741 38	RO(50M)DUCT TAPE BLACK 38MM	1
3741 50	RO(50M)DUCT TAPE BLACK 50MM	1
3741 75	RO(50M)DUCT TAPE BLACK 75MM	1
3741 90	RO(50M)DUCT TAPE BLACK 90MM	1
3741 50 1	RO(50M)DUCT TAPE WHITE 50MM	1

Duct tape universal, silver

- Textile adhesive tape with integrated woven fabric
- Tear-resistant under tension - hard-wearing
- Easy to tear by hand from the side
- Versatile range of applications
- Leaves no residues - adhesion tests are recommended
- Water-resistant

Art.-No. 3745 38 10:

- Narrow version, width: 38 mm

Types of applications:

- Sticking to stone, plaster, masonry and foamed materials
- Sticking to pipe insulation, foils, films, etc.
- Universal use as repair tape



Technical Data	
Base material:	Polyester fabric
Adhesive:	Natural rubber
Thickness:	0,20 mm (200µ)
Adhesive strength:	3,5 N/cm
Tear strength:	47,1 N/cm
Elongation at fracture:	12,5 %
Colour:	silver, black
Temperature resistance:	up to 80 °C

Article No.	Article Description	QTY
3745 38 10	RO(50M)ADH.TAPE UNI SILV. 38MM	e 32
3745 50 1	RO(50M)ADH.TAPE UNI SILV. 48MM	ev 24
3745 50 20	RO(50M)ADH.TAPE UNI BLACK 38MM	ev 24

Tool Box for Small Parts

- Stable plastic design
- Suitable padlock Art. No. 5438 35, 5438 40, 5438 50
- Dimension LxWxH: 48,6 x 26,2 x 24,8 cm

Article No.	Article Description	QTY
9027 19	TOOL BOX FOR SMALL PARTS 19"	1



Mobile Workshop 190 I

- Volume: 190 l
- Shock-resistant, solid plastic
- Two smooth running wheels which master even rough flooring
- Locking options
- Teleskopik handle
- Fixing option for saw and spirit level in the inside lid
- Removable tray to keep small tools organised
- Dimension LxWxH: 96.2 x 57.8 x 59 cm
- Delivery without tools

Article No.	Article Description	QTY
4993 190	MOBILE WORKSHOP 190 L	1



Mobile Workshop

- 20" removable tool box with removable supporting member
- Big, rust-free clasps - can be locked via padlock (Art. No. 5438 40)
- Two deep drawers with ball bearing rails
- Big storage compartment for electronic tools
- Upper part can be pushed backwards
- Full access to the lower storage compartment
- Big 7" wheels
- Dimension LxWxH: 82 x 56.8 x 38.9 cm



Article No.	Article Description	QTY
4993 4	MOBILE WORKSHOP	1

Tool Box for Small Parts

- Stable plastic design
- Suitable padlock Art.-No. 5438 35, 5438 40, 5438 50
- Dimension LxWxH: 48,6 x 26,2 x 24,8 cm

Article No.	Article Description	QTY
9027 19	TOOL BOX FOR SMALL PARTS 19"	1



Mobile Workshop 190 I

- Volume: 190 l
- Shock-resistant, solid plastic
- Two smooth running wheels which master even rough flooring
- Locking options
- Teleskopik handle
- Fixing option for saw and spirit level in the inside lid
- Removable tray to keep small tools organised
- Dimension LxWxH: 96.2 x 57.8 x 59 cm
- Delivery without tools

Article No.	Article Description	QTY
4993 190	MOBILE WORKSHOP 190 L	1



Mobile Workshop

- 20" removable tool box with removable supporting member
- Big, rust-free clasps - can be locked via padlock (Art. No. 5438 40)
- Two deep drawers with ball bearing rails
- Big storage compartment for electronic tools
- Upper part can be pushed backwards
- Full access to the lower storage compartment
- Big 7" wheels
- Dimension LxWxH: 82 x 56.8 x 38.9 cm



Article No.	Article Description	QTY
4993 4	MOBILE WORKSHOP	1

Tool Case ABS

- Case halves made of robust ABS-material
- Robust aluminium frame with edge protection (1)
- 4 floor rails protects the case from scratches and ensures a better stand (2)
- 2 lockable metal latches (3)
- 1 combination lock (4)
- Ergonomic handle (5)
- Safety latch cover
- Dokument compartment (DIN A4) in the upper case halve
- Aluminium system for variable cases (6)
- Art. No. 4993 15 with easily rolling wheels and extendable telescope handle



4993 13



4993 14



4993 15



Technical Data

Art.-No.:	49993 13	4993 14	4993 15
Inner dimensions (L x W x H):	46 x 35,5 x 17 cm	47 x 37 x 19 cm	48,5 x 37,5 x 20 cm
Outer dimensions (L x W x H):	49,5 x 41,5 x 19,5 cm	50 x 42,5 x 21 cm	51,5 x 44 x 25,5 cm
Volume:	28 l	33 l	36 l
Dead weight:	4,6 kg	4,8 kg	6,6 kg
Load:	25 kg	30 kg	30 kg
Colour:	black	black	black
Material:	ABS	ABS	ABS
Telescope handle:	no	no	yes

Article No.	Article Description	QTY
4993 13	ABS-TOOL CASE 455X345X160	1
4993 14	ABS-TOOL CASE 480X370X180	1
4993 15	ABS-TOOL TROLLEY 485X350X195	1

„Pilot“ tool bag

- high quality pilot tool bag
- material: synthetic leather
- side parts made from ABS
- front side can be folded out
- two combination locks
- removable central panel
- with 35 tool loops and 10 drawers
- ergonomic handle
- dimensions H x L x W: 330 x 430 x 190 mm



Article No.	Article Description	QTY
4993 22	"PILOT" TOOL BAG W.CENTR.PANEL	1

Insulation bag with shoulder strap

- ergonomically shaped handle
- with attachable handle
- aluminium foil sewn in to insulate the contents and for easy cleaning
- double zip for opening and closing the bag
- material: polyester
- dimensions H x L x W: 230 x 280 x 170 mm
- contents: 7.5 litres



Article No.	Article Description	QTY
4993 16	INSULATION BAG W. SHOULD.STRAP	1

Shoulder bag for tools

- ergonomic handle
- attachable strap with padding and quick closure
- ergonomic design
- tape measure insert for tape measure with belt clip
- chain with holder to attach insulation straps etc.
- net pouches on the side
- pouches inside and outside in various sizes, with plastic inner coating easy to clean
- dimensions H x L x B: 220 x 290 x 285 mm

Article No.	Article Description	QTY
4993 17	SHOULDER BAG F.TOOLS	1



Tool Case

- Spacious tool case for tools and accessories
- Removable and adjustable shoulder strap with soft padding
- Edge protection due to robust aluminium rails
- Lockable metal buckle
- Robust and reinforced textile fabric
- Integrated front bag for e.g. documents
- Tool strap at the inside of the case to maintain order of screwdrivers, pliers, spanners etc.
- Dimension (LxWxH): 50 x 28 x 26 cm

Article No.	Article Description	QTY
4993 8	TOOL CASE 500/280/260	1



Tool Bag

- Robust steel rod with ergonomic foam rubber handle
- Removable and adjustable shoulder strap with soft padding
- Numerous small pockets at the outside of the bag
- Stable plastic base for optimum tool protection
- Tool strap at the inside of the bag to maintain order of screwdrivers, pliers, spanner etc.
- Dimension (LxWxH): 45 x 27 x 36 cm

Article No.	Article Description	QTY
4993 9	TOOL BAG 450/270/360	1



Trolley bag for tools

- Material: synthetic leather
- 23 compartments for various hand tools
- dimensions H x L x B: 445 x 1050 x 4 mm

Article No.	Article Description	QTY
4993 23	TROLLEY BAG F.TOOLS 23 COMPAR.	1

Scope of delivery:

- 1 trolley bag without contents



Hydraulic Car Jack Flat 2 t

- Intelligent hydraulic: with one stroke at position point of the vehicle
- Ideally suitable for lowered vehicles
- Shaft transmission
- Pumping rod protection
- Steel wheels

Technical Data

Load capacity:	2 t
Weight:	51.5 kg
Stroke height A min.:	63 mm
Stroke height B max.:	508 mm
Dimension LxW:	1072 x 349 mm
Frame height H:	160 mm

Article No.	Article Description	QTY
5430 2 3	CAR JACK FLAT 2T	1
5430 2 31	DIST.RUBBER F.CAR JACK FLAT	1



Hydraulic car jack 2 t

- hydraulic car jack with quick foot pedal to quickly span the lifting point
- protection against uncontrolled dropping (dead man's control)
- built-in safety valve to prevents overloading
- quiet polyurethane wheels
- ergonomic handle

Technical Data

lifting capacity:	2 t
weight:	49 kg
lift height A min:	80 mm
lift height D max:	795 mm
dimensions LxW:	950 x 500 mm
chassis height H:	220 mm
length lever C:	950 mm

Article No.	Article Description	QTY
5430 2000	HYDRAULIC CAR JACK 2 T	1
5430 2001	DIST.RUBB. F.CAR JACK 2T.	1



Trolley jack 2 t with PU tandem rollers

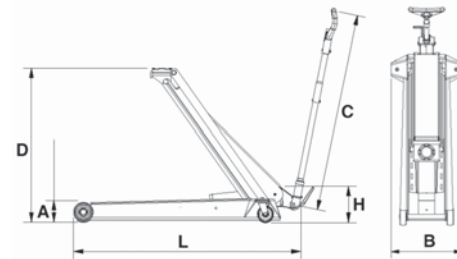
- hydraulic trolley jacket with quick-lift foot pedal
- Lifting point 100% protected thanks to rubber protective plates
- Impact protection on pump rod
- Secured against uncontrolled release (dead man's control)
- suitable for use in restricted spaces thanks to compact design
- low-noise PU wheels
- automatically adjustable tandem wheels at the front enable optimum handling, even on uneven ground

Technical Data

Load-bearing capacity:	2 t
Weight:	37.2 kg
Lifting height A min.:	85 mm
Lifting height D max.:	490 mm
Dimensions (L x W):	795 x 370 mm
Chassis height H:	180 mm
Pump lever length C:	980 mm
Total height with lever:	1,070 mm



Article No.	Article Description	QTY
5430 3002	TROLL.JACK PU-TANDEM ROLL.2T	1



Hydraulic Car Jack 3 t

- With quick lift and protective rubber plate
- With impact protection on pumping rod
- Colour: anthracite

Technical Data

Loading capacity:	3 t
Weight:	41 kg
Stroke height A min.:	130 mm
Stroke height B max.:	490 mm
Dimension LxW:	795 x 385 mm
Frame height H:	170 mm

Article No.	Article Description	QTY
5430 3001	SHORT JACK 3T	1
5430 3001 1	DIST.RUBB.F.HYDRAULIC CAR JACK	1



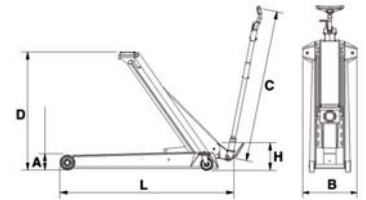
Hydraulic car jack 5t

- hydraulic car jack with quick foot pedal to quickly span the lifting point
- protection against uncontrolled dropping (dead man's control)
- built-in safety valve to prevent overloading
- ergonomic handle

Technical Data

lifting capacity:	5 t
weight:	170 kg
lift height A min:	140 mm
lift height D max:	975 mm
dimensions LxB:	1290 x 525 mm
chassis height H:	265 mm
length lever C:	1200 mm

Article No.	Article Description	QTY
5430 5000	HYDRAULIC CAR JACK 5T	1



rubber wheel air filled

- for easy manoeuvring and for better steering
- suitable with 5 t trolley jack art. no. 5430 5000

Article No.	Article Description	QTY
5430 5001	P(2)RUBB.WHEELS F.CAR JACK 5T	1



Jack 10 t

- Solid, blue steel frame
- Oil and acid resistant plastic wheels
- With pump lever for load and foot pedal for bridging idle stroke
- Patented LCS lowering valve guarantees the lowering with a controlled rate of descent when working with heavy loads

Technical Data

Art. No.	Load cap.y
	t
5430 10	10

Article No.	Article Description	QTY
5430 10	JACK 10T	1



Air-Hydraulic Lifter for Truck/Bus 20 t

Technical Data

Load cap.:	20 t
Weight:	53 kg
Pressure:	7 - 10 bar
Air required:	270 l/min.
Hydraulic lifting:	110 mm
Extension 1 (Ø x height in mm):	70 x 20
Extension 2 (Ø x height in mm):	50 x 20
Extension 3 (Ø x height in mm):	50 x 60
Extension 4 (Ø x height in mm):	50 x 100
Min. height in mm:	235
Max. height in mm:	
- with adapter 1 + 2	365
- with adapter 3	405
- with adapter 4	445
Dimension LxW:	530 x 320 mm

Article No.	Article Description	QTY
5430 20 1	AIR-HYDRAUL.LIFT.TRUCK/BUS 20T	1



Truck / bus lever air hydraulics can lift 10 - 25

- handy design and low weight (27 kg) for mobile use
- hard chrome-plated piston rod for long product life
- built-in safety valve to prevent overloading
- protection against uncontrolled lowering (dead man control)
- standard 2 extensions 50 / 100 mm
- air connection: ¼" inner thread

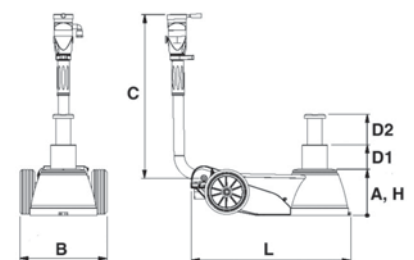
Technical Data

weight:	27 kg
lift height A min:	161 mm
dimensions L x W:	534 x 292 mm
chassis height H:	161 mm
operating pressure:	9 x 12 bar
min. air consumption:	350 l/min
length lever C:	550 mm
extensions:	50 / 100 mm

1. level:	
lifting capacity:	25 t
lift height D1 max:	234 mm

2nd level:	
lifting capacity:	10 t
lift height D2 max:	317 mm

Article No.	Article Description	QTY
5430 10 25	TRUCK-/BUS LEV.AIR HYDR.10-25T	1



Hydraulic Jack

- Colour: anthracite

Technical Data		
Art. No.	Min. height mm	Max. height mm
5431 2	158	308
5431 4	180	350
5431 6	197	382
5431 8	205	390
5431 12	214	399
5431 20	242	449

Article No.	Article Description	QTY
5431 2	HYDRAULIC JACK 2T	1
5431 4	HYDRAULIC JACK 4T	1
5431 6	HYDRAULIC JACK 6T	1
5431 8	HYDRAULIC JACK 8T	1
5431 12	HYDRAULIC JACK 12T	1
5431 20	HYDRAULIC JACK 20T	1



Distance Rubber

Article-No. 5430 1 1:

- suitable for Hydraulic Car Jack Art.-No. 5430 15, Art.-No. 5430 2 2 and Art.-No. 5430 3
- Rubber-ø: 93 mm

Article-No. 5430 2 31:

- suitable for Hydraulic Car Jack Art.-No. 5430 2 3
- Rubber-ø: 107 mm

Article-No. 5430 2001:

- suitable for Hydraulic Car Jack Art.-No. 5430 2000
- Rubber-ø: 109 mm

Article-No. 5430 3001 1:

- suitable for Hydraulic Car Jack Art.-No. 5430 3001
- Rubber-ø: 138 mm

Article No.	Article Description	QTY
5430 1 1	DISTANCE RUBBER F. JACK	1
5430 2 31	DIST.RUBBER F.CAR JACK FLAT	1
5430 2001	DIST.RUBB. F.CAR JACK 2T.	1
5430 3001 1	DIST.RUBB.F.HYDRAULIC CAR JACK	1



5430 1 1



5430 2 31



5430 2001



5430 3001 1

Oil-Spraying Can

- Oils in any situation
- Filling volume: 0.3 l
- Container made of zinc diecasting

Article No.	Article Description	QTY
5421 1	OIL-SPRAYING CAN 0.3L	1



Bin with outlet and scale

- 10.5 l capacity
- made from acid-resistant polyethylene (HD-PE)
- with shaped scale and plastic brackets
- industry bin with outlet for safe handling

Article No.	Article Description	QTY
5421 10	BIN W. OUTLET AND SCALE 10.5L	1



Funnel

Art. No. 5421 20 and 5421 23:

- With removable brass filter
- Material: polyethylene

Article No.	Article Description	QTY
5421 20	FUNNEL 200/25MM	1
5421 23	FUNNEL WITH HANDLE 160/22MM	1
5421 27	FUNNEL 120/15MM	1

(Fill-in-Ø in mm/ outlet-Ø in mm)



Funnel Set

- Small diameter, without filter
- Material: polyethylene
- Fill-in-Ø 50, 75, 100, 120 mm
- Outlet-Ø 9, 10, 11, 15 mm

Article No.	Article Description	QTY
5421 26	FUNNEL-SET 4-PART	1



Funnel Angled

- With removable brass filter
- Material: polyethylene
- Outlet displaced to 200 mm

Article No.	Article Description	QTY
5421 24	FUNNEL 160/24MM	1

(Fill-in-Ø mm / outlet-Ø mm)



Funnel with Bellow

- With flexible bellow hose and removable brass filter
- Material: polyethylene
- Hose length 420 mm

Article No.	Article Description	QTY
5421 22	FUNNEL 205/22MM	1

(Fill-in-Ø in mm/ outlet-Ø in mm)



Funnel with Angled Outlet

- With removable brass filter
- Material: polyethylene
- 30° angled

Article No.	Article Description	QTY
5421 21	FUNNEL 205/20MM	1

(Fill-in-Ø in mm/ outlet-Ø in mm)



Flexible Funnel

- Resistant against petrol, diesel, oil, cooling fluids, hydraulic fluid
- Flexible, freely mouldable

Article No.	Article Description	QTY
5421 8	FLEXIBLE FUNNEL	1



Hydraulic Press 15 t FH

- Very robust all-steel-frame-construction
- Automatic piston return
- Frame perforation
- Including press table and V-support
- With hand and foot pump
- Horizontally adjustable piston to 340 mm

Technical Data

Power:	15 t
Height (incl. Manometer):	1.880 mm
Width:	900 mm
Depth:	600 mm
Internal dimension frame:	550 mm
Internal dimension:	150 mm
Plunger stroke:	160 mm
Plunger Ø:	40 mm
Weight:	123 kg
Piston movable laterally:	340 mm

Article No.	Article Description	QTY
5434 1 15	HYDRAULIC PRESS 15T F+H	1
5434 1 150	PRESS MANDREL SET W.ADAPTER FH	1

Scope of Delivery Art.-No. 5434 1 150:

- 6x Press mandrels Ø 5, 10, 14, 18, 24, 29 mm
- 1x Press mandrel holder Ø 40 mm

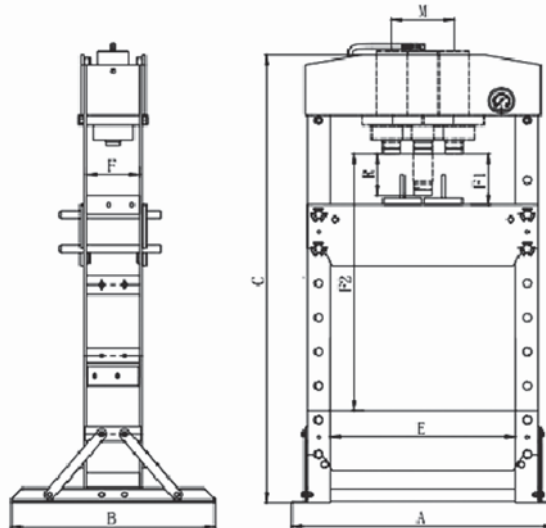


Workshop press 30t

- very sturdy solid steel construction
- automatic piston return
- frame perforation
- laterally movable pressure cylinder
- with press bed and V-insert
- includes 8-pce mandrel set (Ø 10,12, 16, 18, 20, 22, 25, 30 mm), quick-change clamp and supporting fixture
- press bed height-adjustable using winch
- hydraulic pump with 2 speeds, automatic valve switches between quick and heavy lifting

Technical Data

pressing force:	30,000 kg
A:	795 mm
B:	700 mm
C:	1772 mm
E:	535 mm
F:	140 mm
F1:	151 mm
F2:	1031 mm
R:	160 l
M:	200 mm
net weight:	166.7 kg



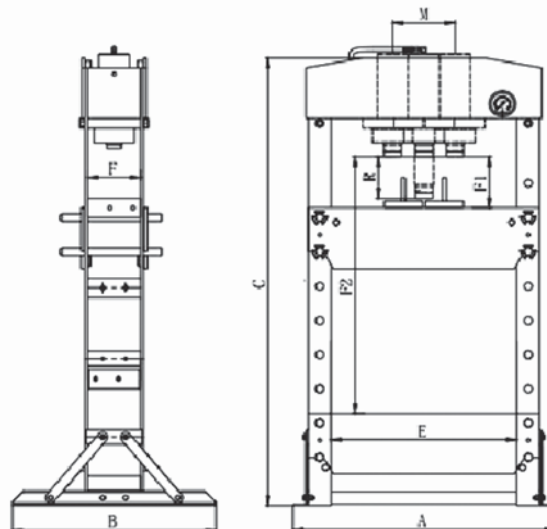
Article No.	Article Description	QTY
5434 1 30	WORKSHOP PRESS 30T FOOT+HAND	1

Workshop press 50 t

- very sturdy solid steel construction
- automatic piston return
- frame perforation
- with press bed and V insert
- includes 8-pce mandrel set (Ø 10,12, 16, 18, 20, 22, 25, 30 mm), quick-change clamp and supporting fixture
- press bed height-adjustable using winch
- hydraulic pump with 2 speeds, automatic valve switches between quick and heavy lifting

Technical Data

pressing force:	50,000 kg
A:	1030 mm
B:	800 mm
C:	1830 mm
E:	730 mm
F:	207 mm
F1:	68 mm
F2:	1048 mm
R:	200 l
M:	245 mm
net weight:	298 kg



Article No.	Article Description	QTY
5434 2 50	WORKSHOP PRESS 50 T FOOT+HAND	1

Hydraulic Crane 500 KG

- Space-saving hydraulic crane, due to its foldable underbody
- Broad gauge carriage to insure load stability when shunting on-load
- Load capacity up to 500 kg depends on the crane arm pullout
- Safety-load-hook with automatic lock
- Crane hydraulic with Totman control - more safety (Hydraulic Oil SAE 20)

Technical Data	
Load capacity:	150 - 500 Kg
Weight:	73 Kg
Opened carriage:	
Length:	1.520 mm
Width outside:	850 mm
Width inside:	720 mm
Height max.:	2.240 mm
Height min.:	320 mm
Position 1	500 kg
Position 2	400 kg
Position 3	250 kg
Position 4	150 kg

Article No.	Article Description	QTY
5434 500	HYDRAULIC CRANE 500KG	1



Hydraulic Crane 1000 KG

- Space-saving hydraulic crane, due to its foldable underbody
- Broad gauge carriage to insure load stability when shunting on-load
- Load capacity up to 1000 kg depends on the crane arm pullout
- Safety-load-hook with automatic lock
- Crane hydraulic with Totman control - more safety (Hydraulic Oil SAE 20)

Technical Data	
Load capacity:	300 - 1.000 Kg
Weight:	120 Kg
Opened carriage:	
Length:	1.580 mm
Front width outside:	1.010 mm
Front width inside:	840 mm
Height max.:	2.600 mm
Height min.:	320 mm
Position 1	1000 kg
Position 2	800 kg
Position 3	550 kg
Position 4	350 kg

Article No.	Article Description	QTY
5434 1000	HYDRAULIC CRANE 1000KG	1
5434 1000 1	SWIVEL CASTOR F.HYDR.CRANE	1
5434 1000 2	FIXED CASTOR F.HYDR.CRANE 587	1



Corrossion Protection-Set Re-Zinc

- Enables additional electrolytic zinc coating of repair spots on the car body, where already primers, zinc sprays or zinc dust colours were applied
- Creates a very pure, adhesive and matt zinc coat
- Suitable for all repaired bare ground spots
- Long-lasting sealing of weld spots and weld seams as well as hoods, mudguards, wheel arches, sills and doors
- When replacing the bonded screen, if the flange coating is damaged during cutting out of the screen
- Only metallic bare spots are zinced, no damage of intact paint
- Excellent adhesion of zinc coat on filling solder
- No drying time necessary
- Excellent adhesion of filling solder, filler and paint
- Cleaning of slightly rusted sheets
- Also suitable for vintage cars



Article No.	Article Description	QTY
5492 1	CORROSION PROTECT.SET RE-ZINC	1

Scope of delivery:

- 1x Art.-No. 5492 1 1: power supply 220 V
- 1x Art.-No. 5492 1 10 5: handle Ø 80
- 2x Art.-No. 5492 1 20: handle electrode rectangle 30
- 3x Art.-No. 5492 1 10 1: Pad Ø 80
- 10x Art.-No. 5492 1 20 1: Pad rectangle 30
- 1x Art.-No. 5492 1 10: electrode Ø 80
- 1x Art.-No. 5492 1 30 1: shell
- 1x Art.-No. 5492 1 10 2: contact plate
- 1x Art.-No. 5492 1 30: electrolyte 1 l
- 1x Art.-No. 5492 1 2: cable red (+)
- 1x Art.-No. 5492 1 3: cable black (-)



5492 1 1



5492 1 2



5492 1 3



5492 1 10



5492 1 10 1



5492 1 10 2



5492 1 10 3



5492 1 10 4



5492 1 10 5



5492 1 20



5492 1 20 1



5492 1 30



5492 1 30 1

Filling Solder – 3 Metal Alloy, Lead-free

- According to DIN EN 29453
- 3 metal alloy: 90% Sn (tin) , 7% Zn (zinc) , 3% Cu (copper)
- Working temperature: +220 °C to +300 °C

Article No.	Article Description	QTY
5490 3	KG FILLING SOLDER SN90 ZN7 CU3	e 20



Tinning Paste, Lead-free

- Flux according to DIN 29454-1 3.1.1.C
- 97% Sn (tin) , 3% Cu (copper)
- Ready-for-use soft solder metal paste for tinning body parts, containers, equipment, etc.
- Brush included

Article No.	Article Description	QTY
5490 5	CAN(1KG)TINN.PASTE S-SN97 CU3	1



Soldering Oil – Steel and Stainless Steel

- Flux according to DIN EN 29454-1 3.2.2.A
- Acidic
- **Please note:** Remove flux residues with soap water and neutralise after tinning

Article No.	Article Description	QTY
5490 6	FL(500ML)SOLDERING OIL STEEL	1



Filling Solder – 3 Metal Alloy, Lead

- According to DIN 29453

Art.-No. 5490 25:

- 3 metal alloy: 74 % Pb (lead) , 25 % Sn (tin) , 1 % Sb (antimony)
- Working temperature: +190 °C to +250 °C

Art.-No. 5490 33:

- 3 metal alloy: 67 % Pb (lead), 33 % Sn(tin), 0,5 % Sb (antimony)
- working temperature: +250 °C to +350 °C

Art.-No. 5490 40:

- 3 metal alloy: 59.5 % Pb (lead), 40% Sn (tin), 0.5 % Sb (antimony)
- Working temperature: +200 °C to +350 °C

Art.-No. 5490 50:

- 3 metal alloy: 50 % Pb (lead), 50 % Sn (tin), 0,5 % Sb (antimony)
- Working temperature: +250 °C to +300 °C

Art.-No. 5490 60:

- 3 metal alloy: 40 % Pb (lead), 60 % Sn (tin), 0,5 % Sb (antimony)
- Working temperature: +220 °C to +350 °C



Article No.	Article Description	QTY
5490 25	KG FILLING SOLDER PB. 25%	e 25
5490 33	KG FILLING SOLDER PB. 33%	ü 25
5490 40	KG FILLING SOLDER PB. 40%	ü 25
5490 50	KG FILLING SOLDER PB. 50%	ü 25
5490 60	KG FILLING SOLDER PB. 60%	ü 25

(% = tin fraction)

Solder Paddles

- Hornbeam, turned, finely polished

Technical Data

Article No.	Design/spreading area	Length
5491 101	Bottom: round, 110 x 32 mm Front side: flat 58 x 32 mm	260mm
5491 102	Flat & narrow, 135 x 32 mm	260mm
5491 104	Oval & pointed, 80 x 50 mm	200mm
5491 105	Flat & wide, 100 x 58 mm	200mm

Article No.	Article Description	QTY
5491 101	SOLDER PADDLE 101 ROUND/FLAT	1
5491 102	SOLDER PADDLE 102 FLAT, NARROW	1
5491 104	SOLDER PADDLE 104 OVAL/POINTED	1
5491 105	SOLDER PADDLE 105 FLAT, WIDE	1



Solder Wires – Electric/Electron. Solder. Lead-free

- S-Sn99/Cu1 with halogen-free flux filling according to DIN EN 29454-1 1.1.3.B
- Flux residues are transparent, dry, solid, and will not act corrosively



Article No.	Article Description	QTY
5470 05 250 1	SOLD.WIRE SN99/CU1 0.5MM 250G	1
5470 08 250 1	SOLD.WIRE SN99/CU1 0.8MM 250G	1
5470 10 250 1	SOLD.WIRE SN99/CU1 1.0MM 250G	1
5470 15 250 1	SOLD.WIRE SN99/CU1 1.5MM 250G	1

(Wire Ø in mm / g/coil)

Solder Wires-Electric/Electronic Sold.Plumbiferous

- S-Sn60Pb40 with halogen-free, activated rosin flux filling according to DIN EN 29454-1 1.1.3B
- Flux residues are transparent, dry, solid, and will not act corrosively



Article No.	Article Description	QTY
5470 05 100	ELEC.SOL.WIRES60/40 0.5MM 100G	1
5470 05 250	ELEC.SOL.WIRES60/40 0.5MM 250G	1
5470 08 100	ELEC.SOL.WIRES60/40 0.75MM100G	1
5470 08 250	ELEC.SOL.WIRES60/40 0.75MM250G	1
5470 10 250	ELEC.SOLDER WIRE60/40 1MM 250G	1
5470 10 500	ELEC.SOL.WIRES60/40 1.0MM 500G	1
5470 15 250	ELEC.SOL.WIRES60/40 1.5MM 250G	1
5470 15 500	ELEC.SOL.WIRES60/40 1.5MM 500G	1
5470 15 1000	ELEC.SOL.WIRES60/40 1.5MM1000G	1

(Wire Ø in mm / g/coil)

Soldering Paste

- According to DIN EN 29454-1 1.1.2.C
- Flux for soldering in the electro-mechanical and electronics areas
- Content: 50 g



Article No.	Article Description	QTY
5470 50	CONTACT-SOLDERING PASTE 50G	1

Solder Wires for Metal Soldering, Plumbiferous

- S – 40Sn/60Pb with flux filling according to DIN EN 29454-1 2.1.2A
- For soldering on all kinds of metals except aluminium
- Not suitable for electric/electronic soldering
- Please remove flux residues after soldering



Article No.	Article Description	QTY
5471 15 500	SOFT SOL.WIRE.W.FLUX1.5MM 500G	1
5471 15 1000	SOFT SOL.WIRE.W.FLUX1.5MM1000G	1
5471 20 500	SOFT SOL.WIRE.W.FLUX2.0MM 500G	1
5471 20 1000	SOFT SOL.WIRE.W.FLUX2.0MM1000G	1

(Wire Ø in mm / g/coil)

Soldering Grease

- According to DIN EN 29454-1 3.1.1.C
- Flux for soldering tin plated and leaded sheet metal, for tin-plating copper and brass
- Not suitable for electric/electronic soldering
- Contains zinc chloride: acidic

Article No.	Article Description	QTY
5479 1 100	SOLDERING GREASE 100G	1
5479 1 250	SOLDERING GREASE 250G	1



Soldering Water

- According to DIN EN 29454-1 3.1.1..A
- Flux for soft soldering iron, steel, copper, brass as well as for all soldering work
- Contains zinc chloride: acidic
- 2500 ml = 3.4kg

Article No.	Article Description	QTY
5479 2 50	SOLDERING WATER 50ML	1
5479 2 500	SOLDERING WATER 500ML	1



Soldering Water Brush

- Tin plate with natural bristles
- Suitable for soldering grease and water

Article No.	Article Description	QTY
5479 9	SOLDERING WATER BRUSH	e 10



Soldering Fluid Bottle

- Made from yellow polyethylene

Article No.	Article Description	QTY
5479 4	SOLDER. FLUID BOTTLE YEL.EMPTY	1



Hydrochloric Acid Bottle

- Made from blue polyethylene

Article No.	Article Description	QTY
5479 3	HYDROCHLO.ACID BOTTLE BL.EMPTY	1



Fitting Solder No.3

- 97/3 L-SN Cu 3
- 97 % tin, 3 % copper according to DIN EN 29453
- Monitored with the RAL quality sign of the German Quality Association for copper pipe (Gütegemeinschaft Kupferrohr)Lead-free – for all cold and hot water installations of copper pipes as drinking water and heating pipes
- Coil Ø 44 mm

Article No.	Article Description	QTY
8696 27	FITTING SOLDER NO 3 2.7MM 250G	z 50



Fitting Solder Paste

- Lot L-Sn 97 Cu 3 DIN 1707 / DIN EN 29453 (part 60 weight %)
- Flux agents / DIN 8511 F-SW 21 DIN EN 29454 3.1.1.C
- DVGW tested DVGW FI 058 GW7 – for the cold and hot water installation of copper pipes as drinking water and heating pipes
- Monitored with the RAL quality sign of the German Quality Association for copper pipe (Gütegemeinschaft Kupferrohr)e.V., RAL-RG 641/3
- Flux agent residues are soluble in cold and hot water

Article No.	Article Description	QTY
8696 250	FITTING SOLDER PASTE 250G	e 12

Scope of delivery:

- 1x brush holder
- 1x brush



Silent Power Max-Impact Screwdriver 1/2" **FÖRCH*******

- A high-quality, high-torque impact screwdriver for professional use in workshops for passenger vehicles, utility vehicles, lorries and agricultural machinery



High-performance double striking mechanism

Technical Data

Maximum torque:	1,500 Nm
Operating torque:	949 Nm
Square drive:	1/2"
Operating pressure:	6.3 bar
Constant air consumption:	164 L / min
Average air consumption:	651 L / min
Noise level (LpA):	86.0 dB(A)
Vibration:	4.6 m/s ²
Weight:	1.80 kg
Recommended hose - Ø:	10 mm
Air connection:	1/4"
Suitable plug nipple	Art.-No. 3926 14 1

Article No.	Article Description	QTY
5350 5 2280	1/2" S.P.M. IMPACT SCR.DRIVER 5*	1

Scope of delivery:

- Silent Power Max-Schlagschrauber delivered without plug nozzles

Your Advantage / Benefit

- High-performance double hammer impact mechanism
- 7-lamellae air motor for additional pulling power and speed
- One-hand push-button reversing and 4-step power controls to regulate the tightening torque at full loosening torque
- Air exhaust downwards through the handle
- Optimised sound insulation to reduce operating noises
- Ergonomic housing handle made of high-strength, glass-fibre-reinforced composite material
- 25% lighter than comparable screwdrivers in this performance class
- 35% more power than standard screwdrivers

Application

- For loosening and tightening nuts and screws in motor vehicle and industrial as well as metal workshops
- Particularly useful for tight screws
- Perfect for tyre companies



Related Products

- Impact socket set 1/2", 86 mm
Art.-No. 4571 12 92



- Torque Spanner „Black“ 1/2" 20–200 Nm
Art.-No. 4645 12 20 2002



- Fine Knitted Gloves Duo Grip
Art.-No. 5405 117 7–10



Pin Impact-Screwdriver 1/2" 850 Nm

- A high-torque basic impact screwdriver for use in high-level workshops for passenger and utility vehicles



Your Advantage / Benefit

- High-performance pin clutch impact mechanism
- 7-lamellae air motor for additional pulling power
- Switch lever with three clockwise speed levels and one anti-clockwise speed level
- Air exhaust downwards through the handle
- Cold-insulated, rubberised handle
- 20% more power than comparable pin clutch impact screwdrivers

Application

- For loosening and tightening nuts and screws up to M16 in motor vehicle workshops
- Perfect for all screw applications in workshops for passenger and utility vehicles.



Technical Data	
Maximum torque:	850 Nm
Operating torque:	750 Nm
Square drive:	1/2"
Operating pressure:	6.3 bar
Air consumption:	127.4 l/min
Noise level (LpA)	92.1 dB(A)
Vibration:	7.42 m/s ²
Weight:	2.6 kg
Recommended hose-Ø:	10 mm
Air connection:	1/4"
Suitable plug nipple:	Art.-No. 3926 14 3

Article No.	Article Description	QTY
5350 9010	1/2"PIN IMPACT SCREWDRIVER	1

Scope of delivery:
Pin Impact-Wrench delivered with plug nipples Art.-No. 3926 14 3

Related Products

- Impact socket set 1/2", 86 mm Art.-No. 4571 12 92



- Torque Spanner „Black“ 1/2" 20–200 Nm Art.-No. 4645 12 20 2002



- Fine Knitted Gloves Duo Grip Art.-No. 5405 117 7–10



Micro Impact Screwdriver 1/2“ 1,100 Nm

- High-torque impact, compact screwdriver for professional use in workshops for passenger vehicles, utility vehicles, lorries and agricultural machinery
- powerful Jumbo Single hammer system
- with 110 mm extreme compact and handy
- optimally suitable for works in restrict rooms
- one-hand operation for right and left-handed user
- 3-staged power control for the tightening torque
- Flexible duct through the grip downward
- 35 % lighter than standard 1/2“ impact screwdriver

Technical Data	
Max. torque:	1,100 Nm
Working torque:	610 Nm
Drive square:	1/2"
Operating pressure:	6.3 bar
Air consumption:	127 l/min
Noise level(LpA):	97 dB(A)
Vibration:	10.23 m/s ²
Weight:	1.3 kg
Rec.hose-Ø:	10 mm
Air connection:	1/4"
Suitable plug nipple:	Art.-No. 3926 14 3

Article No.	Article Description	QTY
5350 9011	1/2"MICRO IMP.SCR.DR. 9012 M	1
5350 9011 111	SILICONE PROTECTION F.53509011	1

Scope of delivery:

- Micro Impact Screwdriver delivered with plug nipple
Art.-No. 3926 14 3



Mini impact driver 1/2" 1,000 Nm

- High-torque impact, compact impact driver for professional use in workshops for passenger vehicles, utility vehicles, lorries and agricultural machinery
- Latest generation of high-performance double hammer impact system
- Its length of just 122 mm makes it very compact
- Developed for working in tight spaces
- 2-stage power regulation for the tightening torque
- Single-hand operation for tightening and release work
- Air exhaust downwards through the insulated handle
- 15 % lighter than comparable compact drivers
- Little vibration as compared with versions with a jumbo hammer impact system
- Ideally suited to assembly and dismantling of chassis components and to changing wheels

Technical Data

Maximum torque:	1,000 Nm
Operating torque:	590 Nm
Square drive:	1/2"
Operating pressure:	6.3 bar
Air consumption:	318 l/min
Noise level:	90 dB (A)
Vibration:	8.4 m/s ²
Weight:	1.1 kg
Receiving hose-Ø:	10 mm
Air connection:	1/4"
Suitable plug nipple:	Art.-No. 3926 14 3



Article No.	Article Description	QTY
5350 1100	1/2"MINI IMPACT DRIVER 1100	1

Scope of delivery:

- Mini impact driver with plug nipple Art.-No. 3926 14 3

Professional Impact Wrench 1/2", 900 Nm

- High performance double striking mechanism for fast loosening of tight screw connections
- Push-button reversing and 4-phase power control for the regulation of tightening torque at permanent breakaway torque
- Exhaust air flow
- Ergonomic casing handle made of high-strength glass fibre reinforced composite material



Technical Data

Max. torque:	900 Nm
Max. tightening torque:	610 Nm
Operating torque:	34 – 474 Nm
Square drive:	1/2"
Working pressure:	6.3 bar
Continuous air consumption:	624 l/min
Air consumption-Ø:	126 l/min
Sound level (LpA):	90.8 dB(A)
Vibration:	4.9 m/s ²
Weight:	1.96 kg
Rec. hose-Ø:	10 mm
Air connection:	1/4"
Suitable plug nipple:	Art.-No. 3926 14 1

Article No.	Article Description	QTY
5350 2265	1/2" PROF.IMPACT WRENCH 2265	1

Scope of delivery:

- Impact Screwdriver delivered without plug nipples

Impact Wrench 1/2" 640 Nm

- High performance stud striking mechanism
- 4-phase turn-switch for the adjustment of tightening torque at permanent breakaway torque
- Weight transfer optimum counterbalanced to medium handle
- Exhaust air flow due to downwards handling, with sound absorption



Technical Data

Max. torque:	640 Nm
Square drive:	1/2"
Working pressure:	6.3 bar
Continuous air consumption:	310 l/min
Air consumption:	110 l/min
Sound level (LpA):	86.3 dB(A)
Vibration:	2.5 m/s ²
Weight:	2.6 kg
Rec. hose-Ø:	8 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1

Article No.	Article Description	QTY
5350 5780	1/2" POWER IMPACT WRENCH 2225	1

Scope of delivery:

- Impact Screwdriver delivered without plug nipples

Special Hammer Oil for Compressed Air Tools

- For greasing the hammer part with regards impact wrenches with pin clutch impact mechanisms

Article No.	Article Description	QTY
5354 101	SPEC.STRIKING MECH.OIL 1000ML	1



Special Oil for Pneumatic Tools

- Provides longer service life of pneumatic tools
- For lubricating pneumatic motors and for corrosion protection

Article No.	Article Description	QTY
5354 100	SPECIAL AIR OIL 1000ML	1



Impact Wrench - Grease Gun

- With the impact wrench - grease gun the impact wrenches with double striking mechanisms are lubricated for daily application and once a month by two pump strokes at the side of the housing

Article No.	Article Description	QTY
2909 40	IMPACT WRENCH-GREASE GUN 80G	1
6550 5785	MULTI P.GREA.W.GRAPH.400G S491	24



Replacement Parts for Impact Wrench 1/2"

Article No.	Article Description	QTY
5350 1	O-RING F.SOCK.RET.RING 1/2"-SS	5
5350 2	SOCK.RET.RING F1/2"-IMPACT WR.	5



Power Impact Wrench Titanium

- Titanium reduces the weight and improves the service life at the same time
- The innovative 7-lamella-engine provides very high breakaway torque
- 4-level performance regulator for the adaption of the required torque
- One-hand reversing function for faster and easier changement of torques

Art.-No. 5350 2235:

- Patented sound-absorbing technology reduces noise without any power limit

Technical Data			
Art.-No.	5350 2115	5350 2125	5350 2235
Max. torque:	339 Nm	375 Nm	1220 Nm
Operating torque:	34 – 312 Nm	34 – 340 Nm	870 Nm
Speed:	15,000 rpm	15,000 rpm	8,500 rpm
Operating pressure:	6.3 bar	6.3 bar	6.3 bar
Square drive	3/8"	1/2"	1/2"
Continuous air consumption:	480 l/min	480 l/min	680 l/min
Air consumption-Ø:	114 l/min	114 l/min	170 l/min
Sound level (LpA):	89.7 dB(A)	89.7 dB(A)	88.7 dB(A)
Vibration:	3.1 m/s ²	3.1 m/s ²	2.8 m/s ²
Weight:	1.11 kg	1.14 kg	2.1 kg
Total length:	151 mm	155 mm	183 mm
Rec. hose-Ø:	10 mm	10 mm	10 mm
Air connection:	1/4"	1/4"	1/4"
Suitable plug nipple:	Art.-No. 3926 14 1	Art.-No. 3926 14 1	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5350 2115	3/8"POWER IMP.WRENCH TITAN2115	1
5350 2125	1/2"POWER IMP.WRENCH TITAN2125	1
5350 2235	1/2"POWER IMP.WRENCH TITAN2235	1

Scope of delivery:

- Power Impact Screwdriver delivered without plug nipples

Pneumatic Angle Impact Wrench 1/2“ 244 Nm

- Angle impact wrench with extreme performance and access of a ratchet screwdriver
- The impact mechanism eliminates any torque-reaction for the user
- 2-position speed control
- Powerful 6-disc motor

Technical Data	
Max torque:	244 Nm
Operating torque:	61 – 217 Nm
Square drive:	1/2"
Operating pressure:	6.3 bar
Continuous air consumption:	540 l/min
Air consumption-Ø:	102 l/min
Sound level (LpA):	96.6 dB(A)
Vibration:	3.0 m/s ²
Weight:	1.54 kg
Total length:	332 mm
Head height:	50 mm
Rec. hose-Ø:	10 mm
Air connection:	1/4" IG
Suitable plug nipples:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5350 2025	1/2"ANGLE-IMP.SCREWDR.IR 2025	1

Scope of delivery:

- Plug nipples not included

Power Impact Wrench

- High performance impact mechanism with pressure lubrication system
 - Simple to maintain as it is assembled from only four moving parts
 - Provides a powerful, balanced impact
 - For better performance and less vibration
- Motor with power amplification when dismantling and patented speed setting
- 4-level power control for the tightening torque
- One-handed push button control
- Durable motor housing made from glass fibre reinforced composite with steel hammer housing
- Exhaust air managed via the handle
- Integrated swivelling air inlet

Technical Data		
Art.-No.	5350 2145	5350 2155
Max release torque:	1830 Nm	1830 Nm
Working torque:	271 – 1491 Nm	271 – 1491 Nm
Square drive:	3/4"	1"
Operating pressure:	6.3 bar	6.3 bar
Continuous air consumption:	906 l/min	906 l/min
Average air consumption:	240 l/min	240 l/min
Sound level (LpA):	96.3 dB(A)	96.3 dB(A)
Vibration:	8.7 m/s ²	5.9 m/s ²
Weight:	3.35 kg	3.4 kg
Recommended hose-Ø:	13 mm	13 mm
Air connection:	3/8"	3/8"
Suitable plug nipple:	Art.-No. 3926 38 1	Art.-No. 3926 38 1

Article No.	Article Description	QTY
5350 2145	3/4" POWER-IMPACT WRENCH 2145	1
5350 2155	1" POWER-IMPACT WRENCH 2155	1

Scope of delivery:

- Power Impact Wrench delivered without plug nipples

Impact Wrench 3/4" 1,424 Nm

- 2-phase power control (2 forward / 2 backwards)
- Outlet support due to handle

Technical Data	
Max. torque:	1,424 Nm
Working torque:	1,085 Nm
Square drive:	3/4"
Working pressure:	6.3 bar
Continuous air consumption:	852 l/min
Average air consumption:	228 l/min
Sound level (LpA):	96.5 dB(A)
Vibration:	6.4 m/s ²
Weight:	4.0 kg
Recommended hose-Ø:	13 mm
Air connection:	3/8" IG
Suitable plug nipple:	Art.-No. 3926 38 3

Article No.	Article Description	QTY
5350 2551	3/4"IMPACT WRENCH IR259	1

Scope of delivery:

- Impact wrench delivered without plug nipples



Impact Wrench 3/4" 1,500 Nm

- Easy to use due to solid make
- Slim design of front housing to reach even deep lying screw connections
- Ari connection at handle
- Double hammer beater
- Exhaust air release downwards through handle
- Rubber coating on handle insulates against cold

Technical Data

Max. torque:	1.500 Nm
Square drive:	3/4"
Working pressure:	6,3 bar
Continuous air need:	990 l/min
Average air need:	340 l/min
Noise level (LpA):	89,5 dB(A)
Vibration:	3,4 m/s ²
Weight:	4,7 kg
Rec. hose Ø:	13 mm
Air connection:	3/8" IG
Suitable plug nipple:	Art. No. 3926 38 1



Article No.	Article Description	QTY
5350 2023	3/4" IMPACTWRENCH. 1500NM 2023	1

Scope of delivery:

- Impact wrench delivered without plug nipple

Impact Wrench 1", 2,450 Nm

- The 3-phase torque adjustment and the clockwise and anticlockwise rotation occur at the push of one button situated on the back of the engine cover.
 - Exhaust air flow
- Art.-No. 5350 2426:**
- Spindle length = 150 mm

Technical Data	
Max. torque:	2,450 Nm
Square drive:	1"
Working pressure:	6.3 bar
Continuous air consumption:	1,020 l/min
Air consumption-Ø:	225 l/min
Sound level (LpA):	88.4 dB(A)
Vibration:	7.2 m/s ²
Weight:	11.5 kg
Rec. hose-Ø:	13 mm
Air connection:	1/2" IG
Suitable plug nipple:	Art.-No. 3926 12 8



Article No.	Article Description	QTY
5350 2425	1"IMPACT WRENCH 2425	1
5350 2426	1"IMPACT WR.LONG SPINDLE 2426	1

Scope of delivery:

- Impact Wrench delivered without plug nipples

Impact Wrench 1", 2,900 Nm

- High performance impact wrench with metal housing
 - Runs right -left with the current 3-level torque setting
 - Very robust and almost maintenance-free due to closed hammer system
- Art.-No. 5350 2476:**
- Spindle length= 204 mm

Technical Data			
Art.-No.	5350 2466	5350 2476	
Max torque:	2900 Nm	2900 Nm	
Square drive:	1"	1"	
Operating pressure:	6.3 bar	6.3 bar	
Continuous air consumption:	1130 l/min.	1130 l/min	
Average air consumption:	370 l/min.	370 l/min	
Sound level (LpA):	100 dB(A)	100 dB(A)	
Vibration:	6.5 m/s ²	7.8 m/s ²	
Weight / total length:	10.6 kg/360 mm	10.6 kg/510 mm	
Recommended hose-Ø:	13 mm	13 mm	
Air connection:	1/2" IG	1/2" IG	
Suitable male coupling:	3926 12 8	3926 12 8	



Article No.	Article Description	QTY
5350 2466	1"IMPACT WRENCH 2466	1
5350 2476	1"IMPACT WR.LONG SPINDLE 2476	1

Scope of delivery:

- Impact Wrench delivered without plug nipples

Impact Wrench 1", 2,900 Nm Xi

- High performance impact wrench with metal housing for a very good power-weight ratio
- Runs right-left with the current 3-level torque setting
- Extra narrow front with 89 mm Ø enables access to narrow spots
- Side handle can be rotated 360°
- Ergonomic handle with cold insulating rubber coating
- Spindle length = 180 mm

Technical Data

Art.-No.	5350 2477
Max torque:	2,900 Nm
Square drive:	1"
Operating pressure:	6.3 bar
Continuous air consumption:	920 l/min
Average air consumption:	300 l/min
Sound level (LpA):	106 dB(A)
Vibration:	9.8 m/s ²
Weight / total length:	8.1 kg / 490 mm
Recommended hose Ø:	13 mm
Air connection:	1/2" IG
Suitable male coupling:	Art.-No. 3926 12 8



Article No.	Article Description	QTY
5350 2477	1"IMPACT WR.LONG SPINDLE2477XI	1

Scope of delivery:

- Impact Wrench delivered without plug nipples

Impact Wrench 1", 2,200 Nm

- The titanium hammer case reduces the weight and extends the service life at the same time
- Lower weight: approx. 50% lower than other 1" impact wrenches
- High power and speed with 2,200 Nm and 6,800 rpm
- Modern handle design which enables a professional use and easy working

Art.-No. 5350 2190 6:

- Spindle length = 152 mm

Technical Data

Art.-No.	5350 2190	5350 2190 6
Max. torque:	2,200 Nm	2,200 Nm
Working torque:	200 – 1,630 Nm	200 – 1,630 Nm
Square drive:	1"	1"
Working pressure:	6.3 bar	6.3 bar
Continuous air consumption:	1,644 l/min	1,644 l/min
Average air consumption:	336 l/min	336 l/min
Sound level (LpA):	103.8 dB(A)	103.8 dB(A)
Vibration:	8.3 m/s ²	9.8 m/s ²
Weight / total length:	6.3 kg / 386 mm	7.0 kg / 546 mm
Recomm. hose-Ø:	13 mm	13 mm
Air connection	1/2" IG	1/2" IG
Recomm. max screw size:	M32	M32
Suitable plug nipple	Art.-No. 3926 12 8	Art.-No. 3926 12 8



5350 2190



5350 2190 6

Article No.	Article Description	QTY
5350 2190	1"IMPACT WRENCH IR 2190TI	1
5350 2190 6	1"IMPACT WRENCH LONG IR 2190-6	1

Scope of delivery:

- Impact Wrench delivered without plug nipples

Mini Ratchet Screwdriver 1/4", 3/8" 45 Nm

- High-performance ratchet screwdriver with infinitely variable regulation of performance and rotation speed
- Flat-headed design, measuring only 32 mm for confined spaces
- Enclosed ratchet head for reduced wear and tear
- Ergonomic and insulated grip
- Patented lubrication system at ratchet collar
- Air outlet rotates 360°

Technical Data

Max. torque:	45 Nm
Drive square:	1/4" or 3/8"
Operating pressure:	6.3 bar
Continuous air consumption:	200 l/min
Average air consumption:	65 l/min
Noise level(LpA):	82.4 dB(A)
Vibration:	3.0 m/s ²
Weight:	0.65 kg
Length:	205 mm
Air connection:	1/4" IG
Recomm.hose Ø:	8 mm
Corresponding plug-in nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5350 3060	1/4" RATCHET SCREWDRIVER 3060	1
5350 3260	3/8" RATCHET SCREWDRIVER 3260	1

Scope of delivery:

- Mini Ratched Screwdriver delivered without plug nipples

Mini Ratchet Driver 1/4", 3/8" 30 Nm

- For fine screw workings
- Ratchet head with right/left switching

Technical Data

Max. torque:	30 Nm
Square drive:	1/4" resp. 3/8"
Operating pressure:	6.3 bar
Continuous air consumption:	300 l/min
Air consumption-Ø:	100 l/min
Sound level (LpA):	89.6 dB(A)
Vibration:	2.8 m/s ²
Weight:	0.5 kg
Length:	Art.-No. 5350 3000: 160 mm Art.-No. 5350 3010: 187 mm
Air connection:	1/4" IG
Rec. hose-Ø:	8 mm
Suitable plug nipple:	Art.-No. 3926 14 1



5350 3000



5350 3010

Article No.	Article Description	QTY
5350 3000	1/4"MINI RATCHET DRIVER 3000	1
5350 3010	3/8"MINI RATCHET DRIVER 3010	1

Scope of delivery:

- Mini Ratchet Screwdriver delivered without plug nipples

Mini Ratchet Driver 3/8" 47 Nm

- Additional 1/4" hex drive for bit intake
- Ratchet head with right/left switching

Technical Data

Max. torque:	47 Nm
Square drive:	3/8"
Hex drive:	1/4"
Operating pressure:	6.3 bar
Air consumption:	81 l/min
Sound level (LpA):	88 dB (A)
Vibration:	3.7 m/s ²
Weight:	0.5 kg
Length:	165 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5350 9021	3/8" RATCHET DRIVER 9021-4	1

Scope of delivery:

- Mini Ratchet Screwdriver delivered with plug nipples
Art.-No. 3926 14 1

Ratchet Driver 3/8", 1/2" 60 Nm

- Ideally suited for general assembly workings
- Ratchet head with right/left switching

Technical Data

Max. torque:	60 Nm
Square drive:	3/8" or 1/2"
Working pressure:	6.3 bar
Continuous air consumption:	465 l/min
Air consumption-Ø:	170 l/min
Sound level (LpA):	89.7 dB(A)
Vibration:	3.0 m/s ²
Weight:	1.0 kg
Length:	254 mm
Rec. hose-Ø:	8 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5350 3200	3/8" RATCHET DRIVER 3200	1
5350 3100	1/2" RATCHET DRIVER 3100	1

Scope of delivery:

- Ratchet Screwdriver delivered without plug nipples

Power Air Impact Ratchet 1/2" 122 Nm

- High-quality, high-torque air impact ratchet for demanding tasks

Your Advantage / Benefit

- High-performance pin clutch impact mechanism with no recoil
- Powerful, low-vibration drive with 122 Nm breakaway torque
- Suitable for manual retightening up to 270 Nm
- Switch located on the ratchet head for selecting clockwise or anticlockwise operation
- High-quality insulated soft grip for better handling
- Air exhaust directed downwards through the handle



Application

- Ideal for working on engines, chassis and bodywork
- Also suitable for a wide range of tasks in scaffolding, railing, crash barrier and prefabricated building construction, etc.



Technical Data

Maximum torque:	122 Nm
Max. manual tightening torque:	270 Nm
Square drive:	1/2"
Rotational speed:	600 rpm
Operating pressure:	6.3 bar
Air consumption:	113 l/min
Noise level (LpA):	90 dB(A)
Vibration:	4.09 m/s ²
Weight:	1.28 kg
Receiving hose Ø:	10 mm
Air connection:	1/4" female thread
Suitable plug nipple:	Art.-No. 3926 14 3

Article No.	Article Description	QTY
5350 4400	1/2" CO.AIR POWER IMP. RATCHET	1

Delivery includes:

- Power air impact ratchet with plug nipple (Art.-No. 3926 14 3)

Mini Ratchet Driver 1/4", 3/8" 41 Nm

- Composite housing for highest comfort and low vibration
- Speed and power can be adjusted
- Specially hardened ratched head for maximum service life

Technical Data

Max. torque:	41 Nm
Working torque:	7–34 Nm
Rec. max. screw size:	M10
Square drive:	1/4" resp. 3/8"
Working pressure:	6.3 bar
Continuous air consumption:	564 l/min
Air consumption-Ø:	96 l/min
Sound level (LpA):	88.9 dB (A)
Vibration:	5.7 m/s ²
Weight:	0.65 kg
Length:	187 mm
Rec. hose-Ø:	8 mm
Air connection:	1/4"
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5350 1105 2	1/4" RATCHET DRIVER IR1105D2	1
5350 1105 3	3/8" RATCHET DRIVER IR1105D3	1

Scope of delivery:

- Mini Ratchet Screwdriver delivered without plug nipples

Ratchet Driver 1/2" 88 Nm

- With new patent right/left switching at the casing ring
- Reinforced ratchet head
- Outlet air slots can be rotated up to 360°
- Steplessly adjustable power and speed regulator

Technical Data

Max. torque:	88 Nm
Working torque:	14–81 Nm
Rec. max. screw size:	M10
Square drive:	1/2"
Working pressure:	6.3 bar
Continuous air consumption:	648 l/min
Air consumption-Ø:	114 l/min
Sound level (LpA):	85 dB (A)
Vibration:	3.2 m/s ²
Weight:	1.45 kg
Length:	275 mm
Rec. hose-Ø:	10 mm
Air connection:	1/4"
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5350 1207 4	1/2" RATCHET DRIVER IR1207D4	1

Scope of delivery:

- Ratchet Screwdriver delivered without plug nipples

Drill Forward/Reverse Operation “Super Silent”

- Compressed-air drill for the discerning mechanic and metalworker
- Note:**
- Remove drill chuck on the machine before mounting the side handle
Art.-No. 5352 5000 2



Your Advantage / Benefit

- Very quiet
- Powerful drive and high speed
- Two-stage operation button for speed regulation simplifies drilling
- side-mounted reverse lever for right and left-handed users
- Very compact
- Air exhaust downwards through the insulated handle

Application

- For all drilling work in automotive, metalworking and industrial



Technical Data

Motor power:	550 W
Rotational speed:	2,100 rpm
Drill chuck	1.5 – 13 mm
Chuck adapter:	1/2"
Operating pressure:	6.2 bar
Average air consumption:	385 l/min
Sound level:	83.4 dB(A)
Vibration:	2.5 m/s ²
Weight:	1.2 kg
Recommended hose:	8 mm
Air connection:	1/4"
Suitable plug nipple:	Art.-No. 3926 14 1

Article No.	Article Description	QTY
5352 5000	CA-DRILL MACHINE"SUPER SILENT"	1
5352 5000 1	QUICK-ACTION DRILL CHUCK 13MM	1
5352 5000 2	SIDE HANDLE C.A.DRILLM.5000	1

Scope of delivery:

- Compressed-air drill Super Silent, drill chuck 13 mm, suitable plug nipple Art.-No. 3926 14 3

Related Products

- Spiral Hose PUR
Art.-No. 3945 8 20
Art.-No. 3945 8 60
Art.-No. 3945 8 80



- Plug Nipple, Outside Thread
Art.-No. 3926 14 3



- Drilling and Cutting Fluid
Art.-No. 6580 5800
Art.-No. 6580 5805



- Twist drill cartridge HSS-E, MULTI-INOX FORCH.....
Art.-No. 5509 5 5506 19
Art.-No. 5509 5 5506 25



Drilling Machine Right / Left Rotation

- Low dead weight at high drilling performance
- With right and left rotation

Technical Data

Power:	500 W
Speed:	2,000 rpm
Drill chuck:	10 mm
Drill chuck intake:	3/8" x 24
Working pressure:	6.3 bar
Continuous air consumption:	620 l/min
Air consumption-Ø:	460 l/min
Sound level (LpA):	83.9 dB(A)
Vibration:	2.5 m/s ²
Weight:	1.1 kg
Rec. hose-Ø:	8 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5352 4500	DL-DRILL RE/LI 4500	1
5352 4100 33	8951011458 QUICK ACT.DR.CHUCK	1

Scope of delivery:

- Drilling machine delivered without plug nipples

Drill DG 4100

- Low dead weight at high drilling performance
- With right rotation

Technical Data

Power:	500 W
Speed:	2,200 rpm
Drill chuck:	10 mm
Drill chuck intake:	3/8" x 24
Working pressure:	6.3 bar
Continuous air consumption:	470 l/min
Air consumption-Ø:	350 l/min
Sound level (LpA):	81.2 dB(A)
Vibration:	2.7 m/s ²
Weight:	0.9 kg
Rec. hose-Ø:	8 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5352 4100	DL-DRILL RE 4100	1
5352 4100 33	8951011458 QUICK ACT.DR.CHUCK	1

Scope of delivery:

- Drilling machine delivered without plug nipples

Angle Drill DG 4650

- Compact construction height due to counter sunk drill chuck
- With right/left rotation

Technical Data

Power:	500 W
Speed:	2,000 rpm
Drill chuck:	10 mm
Drill chuck intake:	3/8" x 24
Working pressure:	6.3 bar
Continuous air consumption:	510 l/min
Air consumption-Ø:	380 l/min
Sound level (LpA):	85.6 dB(A)
Vibration:	2.8 m/s ²
Weight:	1.2 kg
Rec. hose-Ø:	8 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1
Replacem. drill chuck key:	Art.-No. 5320 1



Article No.	Article Description	QTY
5352 4650	DL-ANGLE DRILL RE/LI 4650	1

Scope of delivery:

- Angle drill delivered without plug nipples

Forward/Reverse Drill, 13 mm Chuck

- Drill with keyless, 13 mm chuck
Note: Put 1-2 drops of oil in the air nipple on a daily basis



Your Advantage / Benefit

- Powerful and versatile
- 3 double-pinion planetary gears for optimum power transmission
- Adjustable side handle
- Air exhaust downwards through handle

Application

- For all drilling operations in automotive, construction and industrial work
- Ideal for vehicle body repairs



Technical Data	
Motor output:	500 W
Rotational speed:	800 rpm
Chuck:	1.5 – 13 mm
Chuck adapter:	1/2"
Operating pressure:	6.3 bar
Continuous air consumption:	585 l/min
Average air consumption:	430 l/min
Sound level:	81.9 dB/A
Vibration:	2.4 m/s ²
Weight:	1.4 kg
Recommended hose Ø:	8 mm
Air connection:	1/4" IG
Suitable push-on nipple:	Art.-No. 3926 14 1

Article No.	Article Description	QTY
5352 4550	DRILL FORW./REV.120P 4550	1

- Scope of delivery:**
- Drilling machine delivered including drill chuck 13 mm, not included plug nipples
 - Handle

Related Products

- Spiral Hose PUR
 Art.-No. 3945 8 20
 Art.-No. 3945 8 60
 Art.-No. 3945 8 80



- Plug Nipple
 Outside Thread
 Art.-No. 3926 14 1



- Drilling and Cutting Fluid
 Art.-No. 6580 5800
 Art.-No. 6580 5805



- Twist drill cartridge HSS-E,
 MULTI-INOX **FORCH**
 Art.-No. 5509 5 5506 19
 Art.-No. 5509 5 5506 25



Bodywork and Sheet Metal Saws PS1

- Universally applicable for all cutting work on metal, plastic and wood
- Ideal for heavy-duty use and long service life
- Especially suitable for machining high-strength body panels
- Soft automatic choke allows a longer service life of the saw and saw blades
- Stainless steel counter holder for adjusting the cutting depth
- Robust, impact-resistant, ergonomically shaped plastic housing
- Dimensions (L xH): 235 x 60 mm

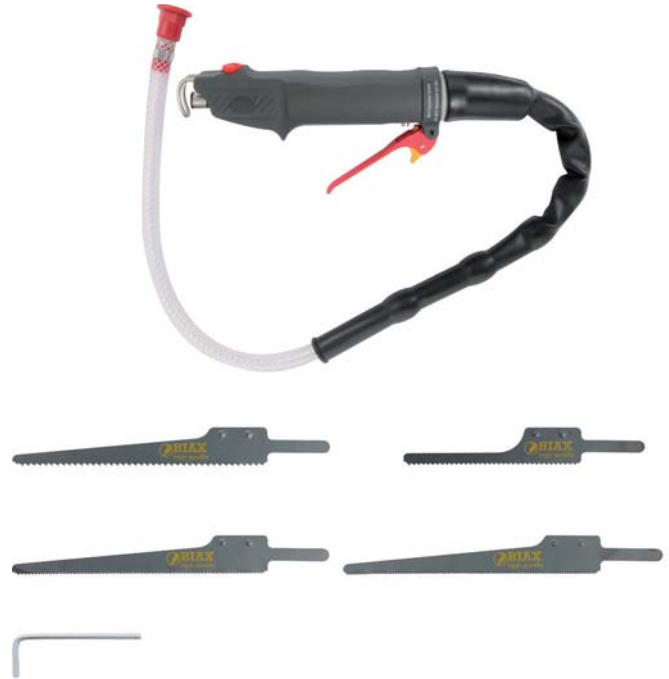
Area of application:

Cutting metal:

- VA, steel, aluminium, thin sheet metal
- high-and ultrahigh-strength steels and aluminum die-cast
- composite/hybrid material (e.g. steel, aluminium with structural adhesive)

Technical Data

Number of strokes:	12 000 rpm
Stroke frequency:	200 Hz
Stroke length:	8 mm
Operating pressure:	6.0 bar
Air consumption:	250 l/min
Noise volume:	75 dB(A)
Vibration:	14 m/s ²
Weight:	0.60 kg
Recommended hose Ø:	8 mm
Exhaust connection:	1/4" IG
Suitable plug-in nipple:	Art.-No. 3926 14 1
Suitable sawblades:	AGR 5735/5737



Article No.	Article Description	QTY
5352 1000	CA-BODYW.,SHEET MET.SAW PS1	1

Scope of delivery:

- 1 x sawblade 14 Z (aluminium, plastics, wood etc.)
- 1 x sawblade short 18 Z (for narrow curves)
- 1 x sawblade 24 Z (sheet metal up to 4 mm)
- 1 x sawblade 32 Z (thin sheet metal up to 1 mm)
- 1 x hexagonal key SW 3

Deep Cutter

- Its unique construction makes a direct access to deeper positioned and narrow working areas possible and a good view to the surfaces to be treated possible
- Cutting width 1 mm, ideal for fine cuttings

Technical Data

Engine power:	630 W
Rotational speed:	15,000 rpm
Operating pressure:	6.3 bar
Continuous air consumption:	350 l/min
Ø air consumption:	350 l/min
Sound level (LpA):	96.8 dB(A)
Vibration:	0.14 m/s ²
Weight:	1.1 kg
Total length:	375 mm
Recomm.hose-Ø:	10 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5352 9315	DEEP CUTTER 9315	1
5352 9315 1	DEEP CUTTER 9300 100X1X10MM	25

(Outer Ø x thickness x Ø intake mm)

Scaler Gun

- For removing rust, slag, paint residues
- Exhaust air directed forwards
- Spring preload by adjusting the needle cap

Technical Data

Stroke rate:	3,000 rpm
Operating pressure:	6.3 bar
Continuous air consumption:	170 l/min
Air consumption-Ø:	120 l/min
Sound level (LpA):	94.9 dB(A)
Vibration:	13.9 m/s ²
Weight:	2.7 kg
Rec. hose Ø:	13 mm
Exhaust connection:	1/4" IG
Suitable plug-in nipple:	Art.-No. 3926 14 1 105



Article No.	Article Description	QTY
5352 5625	SCALER GUN 5625	1

Scope of delivery:

- 1x Art.-No. 5352 5625 30: PCK (29) needle set à 2 mm
- 1x Art.-No. 5352 5625 31: needle plate 29 hole à 2 mm
- 1x Art.-No. 5352 5625 32: PCK (19) needle set à 3 mm
- 1x Art.-No. 5352 5625 33: needle plate 19 hole à 3 mm

Needle Deruster

- For the removal of rust, slags, paint residues
- Not suitable for rust removal of thin sheets

Technical Data

Number of strokes:	4,000 rpm
Operating pressure:	6.3 bar
Continuous air consumption:	180 l/min
Air consumption-Ø:	120 l/min
Sound Level (LpA):	88.2 dB(A)
Vibration:	7.1 m/s ²
Weight:	1.3 kg
Recommended hose-Ø:	8 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5352 5615	NEEDLE DERUSTER 5615	1

Scope of delivery:

- 1x Art.-No. 5352 5615 30: Pack(12pcs) needle set á 3 mm
- 1x Art.-No. 5352 5615 31: Needle plate 12 hole á 3 mm

Engraver

- Handy engraver in the shape of a pen
- Sturdy metal case with non-slip structure
- Suitable for use on steel
- No side-slipping
- Start function via sliding ring on the rear handle end
- With 150 cm long hose section

Technical Data

Chisel intake:	3.2 mm
Stroke rate:	10,000 rpm
Operating pressure:	6.3 bar
Continuous air consumption:	390 l/min
Average air consumption:	5 l/min
Weight:	0.20 kg
recommended hose Ø:	8 mm
Exhaust connection:	1/4" IG
Suitable plug-in nipple:	Art.-No. 3927 14 1



Article No.	Article Description	QTY
5354 5030	ENGRAVER 5030	1
5354 5030 1	REPL.NEEDLE FOR ENGRAVER 5030	1

Mini-Cutting Grinder

- With protection cover and exhaust air flow backward
- For easy cutting and roughing with discs-Ø 70 mm

Technical Data

Power:	350 W
Rotation:	20,000 rpm
Working pressure:	6.3 bar
Continuous air consumption	580 l/min
Air consumption-Ø:	430 l/min
Sound Level (LpA):	93.2 dB(A)
Vibration:	2.5 m/s ²
Weight:	0.7 kg
Recommended hose-Ø:	8 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1
Cutting discs:	Art.-No. 5809 75 20 10
Roughing discs:	Art.-No. 5809 75 60



Article No.	Article Description	QTY
5352 7190	MINI-CUTTING GRINDER 70MM 7190	1

Scope of delivery:

1x mini cutting grinder without plug nipple

DL Angle Grinder 125 mm

- Powerful angle grinder
- Side handle can be used on the left and the right
- For a grinding wheel thickness of 0.8 -6 mm
- With spindle stop for easy release of grinding tools
- Spindle thread: M 14 x 2
- Max. Ø of grinding wheel: 125 x 22 mm

Technical Data

Engine performance:	671 Watt
Rpm:	10,000 rpm
Operating pressure:	6.3 bar
Air consumption:	113 l/min
Noise level(LpA):	89 dB(A)
Vibration:	1.2 m/s ²
Weight:	1.9 kg
Receiving hose-Ø:	10 mm
Air attachment:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 3



Article No.	Article Description	QTY
5352 9033 7	DL-ANGLE GRINDER 125 MM	1

Scope of delivery:

- Angle grinder 125 mm with plug nipple (Art.-No. 3926 14 3)
- Two-hole nut driver

Depth cutter 100 mm **FÖRCH*******

- Powerful depth cutter for vehicle repairs and chassis work
- High-quality sturdy design



Technical Data

Motor power:	700 W
Rotational speed:	14,000 rpm
Operating pressure:	6.3 bar
Air consumption:	113 l/min
Noise level (LpA):	89.5 dB(A)
Vibration:	3.65 m/s ²
Weight:	1.7 kg
Overall length:	377 mm
Receiving hose Ø:	10 mm
Suitable plug nipple:	Art.-No. 3926 14 3

Article No.	Article Description	QTY
5352 5 9033 8	DEPTH CUTTER 100 MM 5*	1

Scope of delivery:

- 1x Depth cutter
- 1x Cutting disc 100 x 1.0 x 10 mm
- 1x Allen wrench, 4 mm
- 1x Plug nipple, Art.-No. 3926 14 3

Your Advantage / Benefit

- Powerful 700 Watt compressed air motor
- Protective cover adjustment without tools, 126° pivoting with 11-fold resolution
- Easy disc change by head-spindle locking
- 145 mm shaft for low-lying interfaces
- Slim grinding head construction, a mere 50 mm thick
- Compact design enables a good view of the work surface
- Safety starter prevents accidental self-triggering
- Cold-insulating and low-vibration handle
- Air outlet to the rear

Application

- For the cutting of sheet steel and screw connections in poorly accessible locations
- Particularly suited for work on exhaust pipe clamps and body-work sheet metal or for separating chassis components



Related Products

- Cutting discs steel / stainless steel
Art.-No. 5352 9315 1



- Special oil for pneumatic tools
Art.-No. 5354 100



- Fine knitted gloves duo grip
Art.-No. 5405 117 7 - 11



Die Grinder - Mini

- Robust compact construction, makes precise working under narrow space conditions possible
- Continuously adjustment of torque, in handle
- Insulated anti-skidding handle against tiredness of hand during the working process - with safety lever
- Ideal for grinding, separating, deburring and rounding of square edges.
- Suitable for the use of ceramic grinding pencil, HHS or HM moulding cutter, serrated grinder and grinding supports

Technical Data

Nominal power:	300 W
Speed	0 – 26,000 rpm
Chuck:	6 mm
Working pressure:	6.3 bar
Continuous air consumption:	415 l/min
Air consumption-Ø:	320 l/min
Sound Level (LpA):	82.1 dB(A)
Vibration:	< 2.5 m/s ²
Weight:	0.40 kg
Length:	155 mm
Height:	65 mm
Recommended hose-Ø:	8 mm
Connection thread:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5353 7011	MINI DIE GRINDER 7011	1
5361 7011 32	8950250417 COLLET CHUCK NUT	1

Scope of delivery:

- 1x collet chuck 6mm

Mini Die Grinder Set

- Robust compact construction, makes precise working under narrow space conditions possible
- Continuously adjustment of torque, in handle
- Insulated anti-skidding against tiredness of hand during working process
- Safety lever
- Ideal for grinding, separating, deburring and rounding of square edges
- Suitable for the use of ceramic grinding pencils, HHS or HM moulding cutters, serrated grinders and grinding supports

Article No.	Article Description	QTY
5353 7012	MINI DIE GRINDER SET 7012	1

Scope of delivery:

- 1x Mini Die Grinder
- 1x Tension pliers 6mm
- 1x Tension pliers 3mm
- 5x Grinder heads in various shapes with a 6 mm tension pin
- 5x Grinder heads in various shapes with a 6 mm tension pin
- 1x Art.-No. 3926 14 1: plug nipple
- 2x hook wrenches
- 1x plastic tool box



Reducing Sleeve

- For using grinding cap carriers with machines accepting 3 mm shafts
- Suitable for Die Grinder - Mini:
Art.-No. 5353 7011
- Suitable for Angle Grinder:
Art.-No. 5353 7107
Art.-No. 5353 7301

Article No.	Article Description	QTY
5968 1	REDUCING SLEEVE 6/3MM	1



Angle Grinder

- Robust single-part and compact construction, 110° angle housing for a better view to the workpiece, makes precise working under narrow space conditions possible
- Continuously adjustment of the torque, in handle
- Insulated anti-skidding handle against tiredness of hand during working process
- With safety lever
- Ideal for grinding, separating, deburring and rounding of square edges
- The ideal machine for the application of Förch-GSV-grinding discs

Technical Data

Nominal power:	300 Watt
Speed	0 - 15,000 rpm
Chuck:	6 mm
Working pressure:	6.3 bar
Air consumption:	320 l/min
Sound Level (LpA):	85.1 dB(A)
Vibration:	<2.5 m/s ²
Weight:	0.55 kg
Length:	160 mm
Height:	97 mm
Recommended hose-Ø:	8 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1



5353 7107



5361 7011 32

Article No.	Article Description	QTY
5353 7107	MINI ANGLE GRIND.6MM INT.7107	1
5361 7011 32	8950250417 COLLET CHUCK NUT	1

Scope of delivery:

1x Collet chuck 6 mm

Power Mini Angle Grinder

- Powerful motor
- Infinitely variable speed control on the handle
- With safety lever
- Ideal for grinding, cutting, deburring and rounding sharp edges
- Durable ball bearing construction for perfect balance and low vibration
- Long service life of the angle head gear thanks to integrated wick oiler
- Stable and lightweight aluminium housing
- Exhaust air directed forwards for a clean treatment of the material surface

Technical Data

Nominal power:	190 Watt
Speed:	0 - 21,000 rpm
Chuck:	1/4" and 6 mm
Operating pressure:	6.3 bar
Continuous air consumption:	678 l/min
Average air consumption:	168 l/min
Sound level (LpA):	91.8 dB(A)
Vibration:	5.9 m/s ²
Weight:	0.46 kg
Length:	128 mm
Height:	76 mm
Recommended hose Ø:	10 mm
Exhaust connection:	1/4" IG
Suitable plug-in nipple:	Art.-No. 3926 14 1 105



5353 7301

5361 7011 32

Article No.	Article Description	QTY
5353 7301	POWER MINI ANGLE GRINDER 6MM	1
5361 7011 32	8950250417 COLLET CHUCK NUT	1

Scope of delivery:

- 1 x collet chuck 1/4
- 1 x collet chuck 6 mm
- 1 x collet chuck nut 6 mm

Oscillating Cutter

- Oscillating compressed air cutting device with continuously adjustable oscillation
- With inlet and exhaust air hose for deflection of air from the working place
- For fast and safe cutting of bonded windscreens
- For non-deforming sawing of body sheets e. g. at cutting repairs
- Clean cutting without frayed edges, plastics, boards etc.

Technical Data

Oscillation:	0 – 20,000 rpm
Shank:	double hexagon
Working pressure:	6.3 bar
Continuous air consumption:	530 l/min
Air consumption-Ø:	370 l/min
Sound level (LpA):	79.8 dB(A)
Vibration:	4.3 m/s ²
Weight:	1.0 kg
Rec. hose-Ø:	8 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
5355 6605	OSCILLAT.CUTTER UNI-CUT. 6606	1

Scope of delivery:

- 1x oscillating cutter without plug nipple
- 1x blade G 35-25
- 1x blade U24
- 1x construction spanner
- 1x plastic tool box

Glass-Removing Tool

- Oscillating pneumatic cutting tool
- For rapid, secure removing of car windows mounted using adhesive
- Cuts plastics, cardboard etc. cleanly without frayed edges
- For removing glass from bus, truck and car windscreens, including glass panes and windows (no exhaust system)
- For distortion-free cutting of body panels, e.g. sectional repairs

Technical Data

Vibration absorber:	0 – 20,000 rpm
Collet:	12 socket
Operating pressure:	6.3 bar
Constant air consumption:	800 l/min
Average air consumption:	500 l/min
Noise level (LpA):	86.9 dB /A)
Vibration:	3.6m/s ²
Weight:	1.3 kg
Recomm.Hose Ø	8 mm
Air connection:	1/4"



Article No.	Article Description	QTY
5355 6610	GLASS-REMOVING TOOL 6610	1

Scope of delivery:

- Glass removing tool without plug nipples

Body Saw Blades, Bi Metal

- Suitable for oscillating compressed air and electric saws
- For clean and non-deforming sawing of body steel sheets and plastics
- Double hexagon intake

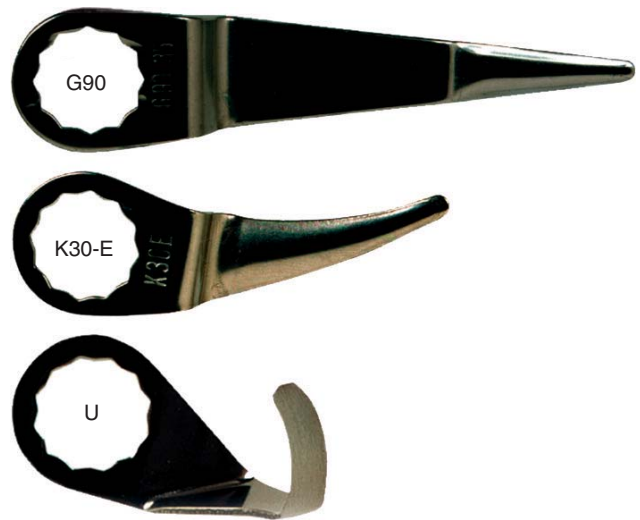
Article No.	Article Description	QTY
5738 60	ROUND SAW BLADE S63 D63MM	1
5738 75	ROUND SAW BLADE S80 D80MM	1



Windscreen Blades

Article No.	Article Description	QTY
5355 24	W/SCREEN BLADE U-FORM U24	2
5355 25	W/SCREEN BLADE U-FORM U25	2
5355 30 30	W/SCRE.BLADE CURVE.,CRANK.K30E	2
5355 40	W/SCREEN BLADE U-FORM U40	2
5355 63	W/SCREEN BLADE U-FORM U63	2
5355 90 70	W/SCRE.BLADE EVEN,CRANK.G90-70	2

(Knife form/cutting length mm)



Sand Blasting Gun

- Removal of old paint, rust and heavy dirt
- For blasting small areas
- Ideal for many applications on the bodywork and all metallic surfaces
- Suitable socket nipple: Art-No. 3926 14 1

Technical Data

Max. pressure: 9.2 bar
Air consumption: 350 l/min
Exhaust connection: 1/4" IG

Article No.	Article Description	QTY
5353 2	SAND BLASTING GUN	1
5353 2 1	REPL.SET 6-PCE FOR SAND BL.GUN	1
5353 10	BU(10KG)BLAST.SAND 0.2-0.5MM	1

Scope of delivery Art.-No. 5353 2:

- Surface nozzle and broad surface nozzle
- External and internal corner nozzle
- Template
- Bag



5353 2



5353 2 1

Multi-Flow Spray- and Blowgun

- Spray- and blow gun for compressed air and liquid flow
- For the effective and quick cleaning and cooling of surfaces for CNC processing, metal work, car preparation etc.
- Can be used with all water-based, non-explosive liquids (cooling lubricant etc.) and compressed air
- The adjustable jet nozzle guarantees a precisely regulated flow from the finest to the broadest jet
- The rate of flow is pre-set using the variable flow regulator
- Energy and time are saved when used repeatedly
- The ergonomic and non-slip rubber handle means that work is both safe and fatigue-free
- Suitable for long-term loads due to the tool's sturdy housing
- Impact and break-resistant
- The integrated sound absorption reduces the noise level and the risk of rebound when uncoupling
- Fulfils the safety standards (OHS/A) of the Agency for safety and health in the workplace
- Suitable plug nipple:
 - Air flow / cooling lubricants: Art.-No. 3926 14 1
 - Water: Art.-No. 5410 165



Technical Data	
Connection:	1/4" IG
Air flow rate:	200 – 1,200 l/min
Liquid flow rate:	5 – 25 l/min
Air noise level:	79 – 101 dB(A)
Max. operating pressure:	16 bar
Min. burst pressure:	64 bar
Material:	polyoxymethylene (POM) thermoplastic elastomere (TPE), aluminium
Sealing material:	nitrile(NBR)
Temperature range (16 bar):	-20 to +60°C
Temperature range (10 bar):	-20 to +80°C
Medium:	air flow and non explosive water-based fluids



3926 14 1



5410 165

Article No.	Article Description	QTY
3945 3	MULTI-FLOW SPRAY- AND BLOWGUN	1

Blow Gun - Aluminium

- Made of aluminium die casting
- With nozzle drilling 1.5 mm

Technical Data	
Working pressure:	2 - 15 bar
Weight:	0.3 kg
Recommended hose-Ø:	min. 6 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1

Article No.	Article Description	QTY
3940 1	BLOW GUN	1
3940 10	EXTENSION NOZZLE 150MM CURVED	1

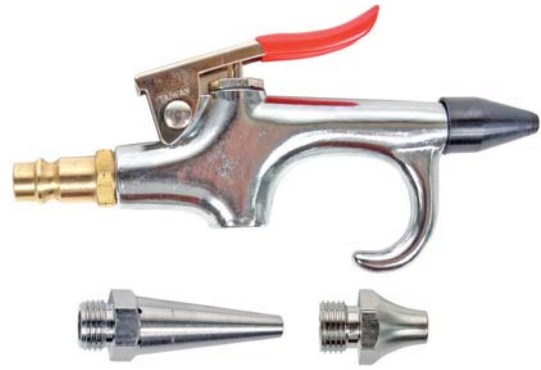


Mini Blow Gun

- Small and practical design with ergonomic handle
- With ball needle, bicycle-tyre valve connection and conical nozzle

Technical Data

Working pressure:	2.5 -6.2 bar
Weight:	0.115 kg
Recommended pipe-Ø:	min. 6 mm
Air connection:	1/4" IG
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
3940 20	MINI BLOW GUN	1

Compressed-air set

consisting of:

- spiral hose 7.5 m / 6 x 8 mm
- tire filler with 30 cm hose
- adapter set 3
- blow-off gun short



Article No.	Article Description	QTY
5357 2	COMPRESSED-AIR SET 6-PCE	1

Blowing Out Pen

- Practical and compact, with clip for attachment e. g. at front pocket
- Material: aluminium
- Adjustable air flow - nozzle with 3 mm Ø
- Plug nipple integrated in housing

Technical Data

Working pressure:	up to 12 bar
Temperature range:	-10°C to +60°C
Recommended hose-Ø:	min. 6 mm
Air flow:	300 l / min at 6 bar



Article No.	Article Description	QTY
3940 8502	BLOWING OUT PEN	1

„Jet Air Nozzle“ Compressed Air Gun

- Perfect for drying, blasting and cleaning of body panels and painted surfaces
- Reliably removes dust and dirt particles
- Powerful blowing force of 5.05 N at 8 bar
- Special safety nozzle ensures blockage-free operation in accordance with OSHA STD 1-13.1
- Infinitely variable air volume regulation
- Wide exhaust duct for processing of large surface areas
- Low noise levels in accordance with EU 2003/10/CE and OSHA 1910.95 (b) at 8 bar
- Ergonomic design with good handling



Technical Data

Operating pressure:	max. 10 bar
Air consumption:	580 l/min at 8 bar
Noise level:	81,5 dB (A)
Weight:	110 g
Working temperature:	-10 °C to +80 °C
Material:	Acetalplastic
Recommended hose Ø:	min. 6 mm
Air connection:	1/4" female thread
Suitable plug nipple:	Art.-No. 3926 14 1



Article No.	Article Description	QTY
3945 100	JET AIR NOZZLE FOR CA-AIR GUN	1 g

Delivery scope:

- Jet Air Nozzle compressed air gun without plug nipple

Blowgun Mini Compact 1

- Ideally suited for vehicle reconditioners, painters and mechanics
- Especially ergonomic, compact and practical
- Ideal for putting in your pocket
- Insulated and scratch-resistant handle
- Ideal for safety couplings with a green push-button
- Meets safety standards in accordance with OSHA and RoHS1

Technical Data

Operating pressure:	12 bar
Air consumption:	101 – 300 l/min
Weight:	85 g
Temperature range:	-15 °C to 70 °C
Material:	Composite polyamide
Sealing material:	Nitrile
Air connection:	Steel plug nipple
Nominal diameter of air connection:	7.2 mm / 7.4 mm
Dimensions (L x H):	96 mm x 93 mm

Article No.	Article Description	QTY
3945 101	BLOWGUN MINI NW:7.2-7.4MM	1

Delivery includes:

- Blowgun with permanently integrated plug nipple



Blow Guns Plastic

- With high-quality plastic handle
- Very well metered air quantity

Art.-No. 3945 1:

- Blow gun with tube-Ø 8 mm, curved
- Without connection nipple and protective screen

Art.-No. 3945 2:

- Blow gun with 300 mm long and straight tube-Ø 8 mm
- Without connection nipple and protective screen

Art.-No. 3945 5:

- Protective screen for blow guns with tube-Ø 8 mm
- Transparent, protects face and eyes when blowing blind holes and dents



Technical Data

Working pressure:	2 - 16 bar
Weight:	0.2 kg
Temperature range:	-10°C to +80°C
Recommended hose-Ø:	min. 6 mm
Air connection:	1/4" IG
Suitable plug nipple:	3926 14 1

Article No.	Article Description	QTY
3945 1	COMPR.AIR BLOW GUN,CURVED 8MM	1 g
3945 2	COMP.AIR BLOW G.8X300MM STRAI.	1 z
3945 5	PROT.SCRE.F.COM.AIR BLOW G.8MM	1

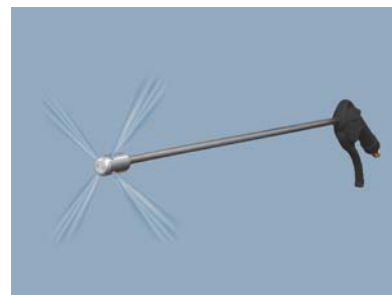
Blow Gun with 4-hole nozzle

- air outlet from 4 drill holes at the sides, 90° offset
- ideal for areas that are hard to reach
- for air-cleaning of air filters, pipes and other components, where an airflow which is 90° offset is needed
- air quantity can be dosed
- with plastic handle
- without connecting nipple
- matching plug nipple: Art.-No. 3926 14 1



Technical Data

Operational pressure:	2 – 16 bar
Nozzle diameter:	Ø 15 mm
Length:	
Art.-No. 3945 300	300 mm
Art.-No. 3945 500	500 mm
Art.-No. 3945 1000	1.000 mm
Temperature range:	-10°C up to +80°C
Recomm. hose-Ø:	min. 6 mm
Air inlet:	1/4" IG
Matching plug nipple:	Art.-No 3926 14 1



Article No.	Article Description	QTY
3945 300	DL-BLOW GUN 4LD 300MM GER	1
3945 500	DL-BLOW GUN 4LD 500MM GER	1
3945 1000	DL-BLOW GUN 4LD 1000MM GER	1

Hand Tyre Filler „Speed“ Calibrated, Analog

- Calibrated hand tyre filler with Speed mounting support
- Lightweight, robust and impact-resistant plastic housing
- The Speed mounting support enables loosening of the valve seat in order to fill the tyre with the unscrewed valve seat
- Transparent design which makes it easier for the user to see whether the insert is completely loosened in order to achieve maximum flow rate at the valve
- Saves up to 50% time due to extremely high filling speed and guided valve insert removal
- No injuries and loss caused by removal of valve inserts are a thing of the past now
- Ideal for truck and constructional machine tyres



Technical Data

Filling range:	0 - 12 bar
Max. filling speed:	910 l/min.
Max. inlet pressure:	15 bar
Length of fill. hose:	1.8 m
Hose-Ø:	8 mm
Connect. thread:	1/4"

Article No.	Article Description	QTY
5370 16	HAND TYRE FILLER SPEED CALIBR.	1

Calibrated Hand Tyre Filler, Digital

- Calibrated hand tyre filler with digital display
- Makes perfect measurement possible
- Pressure can be measured and set to one-hundredth
- Compared to mechanical tyre fillers on the market which lose their accuracy after a certain time and need to be re-calibrated, this device remains its accuracy
- Suitable compressed-air nipple Art.-No. 3926 14 1



Technical Data

Filling range:	0 - 12 bar
Max. filling speed:	910 l/min
Max. inlet pressure:	15 bar
Length of filling hose:	1.8 m
Connecting thread:	1/4"
Battery:	Coin cell CR 2450

Article No.	Article Description	QTY
5370 15	HAND TYRE FILL.DIGITAL CALIBR.	1
5370 15 1	FILL.HOSE 1.8M HAND TYR.F.DIGI	1

Included in delivery:

- 1x Art.-No. 3882 35 coin cell CR2450

= year in which the tyre filler was calibrated. (Validity: Two years)

= label applied in 2015 (validity: Two years)

As per Art. 32 of the Measurement and Calibration Act, the user of a tyre pressure measurement device must notify the responsible authorities about it no later than six weeks after placing it into operation. The easiest way to do this is at the following Internet address: www.eichamt.de

Calibrated Hand Tyre Filler with Buttons

- Operated with two buttons
- For the attachment of plug nipples AG 1/4" unscrew the hose nozzle and attach the adapter Art.-No. 5370 9 4



Technical Data

Working pressure:	0 - 12 bar
Weight:	0.8 kg
Hose-Ø:	8 mm
Pressure gauge-Ø:	75 mm



Article No.	Article Description	QTY
5370 9	MEASUREMENT DEVICE CALIBRATED	1
5370 9 2	REPL.HOSE F. DEVICE CALIBRATED	1
5370 9 4	ADAPTER 1/4"INSIDE THREAD	1

Calibrated Hand Tyre Filler, EWO

- Operation with 2-phase traction lever (filling/emptying)
- Calibrated device with 2 years guarantee
- Also suitable for tyre gas, nitrogen

Art.-No. 5370 14 2:

- According to BGI 884: Maintain a safety distance of 2.5 m to protect against thrown off parts or a pressure wave caused by bursting of a tyre. Therefore the hose length has to be at least 2.5 m from the plug nipple to the inflation system.



Technical Data

Working pressure:	0 - 10 bar / 0 - 140 psi
Weight:	0,83 kg
Working temperature:	-10°C to +60°C
Hose-Ø:	6 mm
Pressure gauge-Ø:	80 mm
Overpressure protection:	up to 16 bar
Air connection:	1/4" AG
Suitable plug nipple:	Art. -No. 3927 14 1

Article No.	Article Description	QTY
5370 14	HAND-TYRE FILLER CALIBRAT.EWO	1
5370 14 1	REPL.HOSE FOR TYRE FIL.5370 14	1
5370 14 2	REPL.HOSE F.T.FILL.537014 2.5M	1



Scope of delivery:

- 1x Art.-No. 5370 14: Calibrated hand tyre filler with plug nipple



= year in which the tyre filler was calibrated. (Validity: Two years)

DE-M 15 0108 = label applied in 2015 (validity: Two years)

As per Art. 32 of the Measurement and Calibration Act, the user of a tyre pressure measurement device must notify the responsible authorities about it no later than six weeks after placing it into operation. The easiest way to do this is at the following Internet address: www.eichamt.de

Measuring Device, Uncalibrated

- Tyre inflation by pulling the control lever
- Reduction of tyre pressure by pressing the side button



Technical Data

Working pressure:	0 - 10 bar
Hose-Ø:	6 mm
Pressure gauge:	63 mm
Weight:	0.62 kg

Article No.	Article Description	QTY
5370 9 1	MEASUREMENT DEVICE UNCALIBRAT.	1

Scope of delivery:

- Measuring device uncalibrated including plug nipples

Calibrated Tyre Filler Pneustar 2, Portable

- Calibrating charge included
- 6 litres reservoir
- Automatic re-filling due to filling socket
- 80 cm filling hose with double-sided filling station connector
- Operation with two buttons



Technical Data

Working pressure:	0 - 10 bar / 0 - 140 psi
Weight:	6.1 kg
Precision pressure gauge-Ø:	160 mm
Overpressure protection:	up to 16 bar

Article No.	Article Description	QTY
5370 100	TYRE FILLER PNEUSTAR II	1

Tyre Pressure Gauge

- User-friendly with precise display
- Digital display
- Suitable for cars, caravans, truck campers, trailers, trucks, motorcycles etc.

Technical Data

Measuring range:	0 - 10 bar / 0 - 150 psi
Accuracy:	± 1.5 %
Weight:	43 g
Working temperature:	0 to +37°C
Size LxWxH:	145 x 35 x 25 mm

Article No.	Article Description	QTY
5370 20	TYRE PRESSURE GAUGE 0-7 BAR	1
5370 22	TYRE PRESSURE GAUGE 0-10BAR	1

Included in delivery:

- 1x Art.-No. 3882 27 Coin cell CR 2032 3 V



5370 20

5370 22

Compressed Air Fittings

- Springs and circlips made of stainless steel
- Hardened locking stud makes application in connection with steel nipples possible
- Technische Daten:
 - Flow capacity (at 6 bar): 1,500 l/min
 - Range of temperature: -20 °C to +100 °C
 - Nominal size: 7.2 mm

Inch table:

Inch:	Outside thread	Inside thread
R 1/4"	13.16 mm	11.45 mm
R 3/8"	16.66 mm	14.95 mm
R 1/2"	20.96 mm	18.63 mm

Quick Connect Couplings, Outside Thread

Technical Data		
Art.-No.	SW mm	L mm
3926 14	22	43
3926 38	22	43
3926 12	22	46



Article No.	Article Description	QTY
3926 12	CONNECTION COUPLINGS AR 1/2"	1
3926 14	CONNECT COUPLINGS AR 1/4"	1
3926 38	CONNECT COUPLINGS AR 3/8"	1

Plug Nipple Outside Thread

Technical Data		
Art.-No.	SW mm	L mm
3926 14 1	17	33
3926 38 1	19	33
3926 12 1	24	37



Article No.	Article Description	QTY
3926 12 1	PLUG NIPPLE SW24 AR 1/2"	1
3926 14 1	COMPR.AIR NIPPLE SW17 AR 1/4"	1
3926 38 1	PLUG NIPPLE SW19 AR 3/8"	1

Quick Connect Couplings, Inside Thread

Technical Data		
Art.-No.	SW mm	L mm
3927 14	22	43
3927 38	22	43
3927 12	24	46



Article No.	Article Description	QTY
3927 12	CONNECT COUPLINGS IR 1/2"	1
3927 14	CONNECT COUPLINGS IR 1/4"	1
3927 38	CONNECT COUPLINGS IR 3/8"	1

Plug Nipple Inside Thread

Technical Data

Art.-No.	SW mm	L mm
3927 14 1	17	33
3927 38 1	19	32
3927 12 1	24	36



Article No.	Article Description	QTY
3927 12 1	PLUG NIPPLE SW24 IR 1/2"	1
3927 14 1	PLUG NIPPLE SW17 IR 1/4"	1
3927 38 1	PLUG NIPPLE SW19 IR 3/8"	1

Junction with 2 Couplings, Inside Thread

Article No.	Article Description	QTY
3932 12 2	JUNCTION COUPLINGS 2-FOLD 1/2"	1
3932 38 2	JUNCTION COUPLINGS 2-FOLD 3/8"	1



Junctions with 3 Couplings, Inside Thread

Article No.	Article Description	QTY
3932 12 3	JUNCTION COUPLINGS 3-FOLD 1/2"	1
3932 38 3	JUNCTION COUPLINGS 3-FOLD 3/8"	1

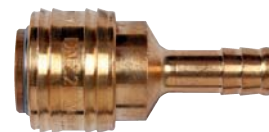


Quick Connect Couplings, Hose Connection

Technical Data

Art.-No.	Ø mm	SW mm
3928 6	6	21
3928 8	8	21
3928 9	9	21
3928 13	13	21

Article No.	Article Description	QTY
3928 6	HOSE CONNECTION L60 6MM	1
3928 8	HOSE CONNECTION L60 8MM	1
3928 9	HOSE CONNECTION L60 9MM	1
3928 13	HOSE CONNECTION L60 13MM	1



Nozzle Hose Connection

Technical Data

Art.-No.	Ø mm	L mm
3928 6 1	6	48
3928 8 1	8	48
3928 9 1	9	48
3928 13 1	13	48

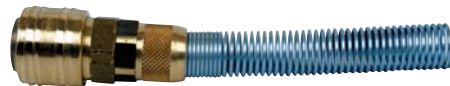


Article No.	Article Description	QTY
3928 6 1	PLUG NOZZLE L48 6MM	1
3928 8 1	PLUG NOZZLE L48 8MM	1
3928 9 1	PLUG NOZZLE L48 9MM	1
3928 13 1	PLUG NOZZLE L48 13MM	1

Quick Connect Couplings, Spiral Hose Connection

Technical Data

Art.-No.	for hose-Ø mm	L mm	D mm
3925 6 8	6	51	27
3925 9 12	8	56	27



Article No.	Article Description	QTY
3925 6 8	HOSE CONNECTION SW21 6X8	1
3925 9 12	HOSE CONNECTION SW21 9X12	1

Nozzle, Spiral Hose Connection

Technical Data

Art.-No.	for hose-Ø mm	L mm
3925 6 8 1	6	33
3925 9 12 1	8	47



Article No.	Article Description	QTY
3925 6 8 1	HOSE CONNECTION SW14 6X8	1
3925 9 12 1	HOSE CONNECTION SW19 9X12	1

Threaded Nozzle

Technical Data

Art.-No.	for hose-Ø mm	SW mm	L mm
3929 14 6	6	17	39
3929 38 6	6	19	39
3929 14 9	8	17	36
3929 38 9	8	19	36
3929 12 9	8	27	44
3929 38 13	12	19	39
3929 12 13	12	27	48



Article No.	Article Description	QTY
3929 12 9	THREADED NOZZLE R1/2" 9MM	1
3929 12 13	THREADED NOZZLE R1/2" 13MM	1
3929 14 6	THREADED NOZZLE R1/4" 6MM	1
3929 14 9	THREADED NOZZLE R1/4" 9MM	1
3929 38 6	THREADED NOZZLE R3/8" 6MM	1
3929 38 9	THREADED NOZZLE R3/8" 9MM	1
3929 38 13	THREADED NOZZLE R3/8" 13MM	1

Dual Hose Nozzle

Technical Data

Art.-No.	for hose-Ø mm	L mm
3929 6	6	72
3929 9	8	72
3929 13	12	74

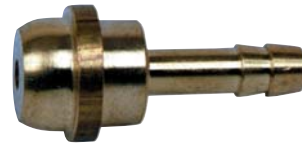


Article No.	Article Description	QTY
3929 6	DUAL NOZZLE L 72X 6MM	1
3929 9	DUAL NOZZLE L 72X 9MM	1
3929 13	DUAL NOZZLE L 74X13MM	1

Hose Nozzle

Technical Data

Art.-No.	for hose-Ø mm	L mm
3929 14 6 1	6	49
3929 38 6 1	6	52
3929 38 9 1	8	52
3929 12 9 1	8	54
3929 12 13 1	12	54

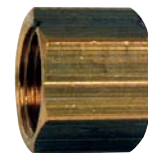


Article No.	Article Description	QTY
3929 12 9 1	HOSE NOZZLE R1/2" 9MM	1
3929 12 13 1	HOSE NOZZLE R1/2" 13MM	1
3929 14 6 1	HOSE NOZZLE R1/4" 6MM	1
3929 38 6 1	HOSE NOZZLE R3/8" 6MM	1
3929 38 9 1	HOSE NOZZLE R3/8" 9MM	1

Union Nut Hexagon for Hose Nozzle

Technical Data

Art.-No.	L mm
3930 14	15
3930 38	16
3930 12	20

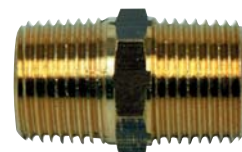


Article No.	Article Description	QTY
3930 12	UNION NUT SW24 R1/2" RIG.H.THR.	1
3930 14	UNION NUT SW17 R1/4" RIG.H.THR.	1
3930 38	UNION NUT SW19 R3/8" RIG.H.THR.	1

Dual Nipples with Cone

Technical Data

Art.-No.	SW mm	L mm
3930 14 2	17	23
3930 38 2	19	23
3930 12 2	24	30



Article No.	Article Description	QTY
3930 12 2	DUAL NIPPLES CONE R1/2"	1
3930 14 2	DUAL NIPPLES CONE R1/4"	1
3930 38 2	DUAL NIPPLES CONE R3/8"	1

Reducing Nipple

Technical Data

Art.-No.	SW mm	L mm
3930 14 18	17	11
3930 38 14	19	13
3930 12 38	24	18
3930 34 12	32	24



Article No.	Article Description	QTY
3930 12 38	REDUCING NIPPLE AR1/2 X IR3/8"	1
3930 14 18	REDUC.NIPPLE AR1/4 X IR 1/8"	1
3930 34 12	REDUCING NIPPLE AR3/4 X IR1/2"	1
3930 38 14	REDUCING NIPPLE AR3/8 X IR1/4"	1
3930 12 14	REDUCING NIPPLE AR1/2"XIR1/4"	1 ü

Safety Couplings, Inside Thread

- No risk of injury due to compressed air hoses and stentorian deflating noises
- Two-way System
 - First step: decompression of the coupling
 - Second step: separating of connection
- Rate of flow (at 6.3 bar): 1,700 l/min
- Operating pressure: 16 bar
- High-tech composite material with energy absorbing fibres. Extremely resistant against abrasion, impacts, crushes and vibrations
- Nominal size: 7.2 mm



Article No.	Article Description	QTY
3927 12 2	SAFETY COUPLING IR 1/2"	1 z
3927 14 2	SAFETY COUPLING IR 1/4"	1 z
3927 38 2	SAFETY COUPLING IR 3/8"	1

Technical Data	
SW mm	Length mm
21	60
21	60
25	70

(connection thread)

Safety Couplings, Outside Thread

- No risk of injury due to compressed air hoses and stentorian deflating noises
- Two-way system
 - First step: decompression of the coupling
 - Second step: separating of connection
- Rate of flow (at 6.3 bar): 1700 l/min
- Operating pressure: 16 bar
- High-tech composite material with energy absorbing fibres. Extremely resistant against abrasion, impacts, crushes and vibrations
- Nominal size: 7.2 mm



Article No.	Article Description	QTY
3926 12 2	SAFETY COUPLING AR 1/2"	1 z
3926 14 2	SAFETY COUPLING AR 1/4"	1
3926 38 2	SAFETY COUPLING AR 3/8"	1 z

Technical Data	
SW mm	Length mm
21	71
21	72
23	75

(connection thread)

Safety Couplings, Hose Connection

- No risk of injury due to compressed air hoses and stentorian deflating noises
- Two-way system
 - First step: decompression of the coupling
 - Second step: separating of connection
- Rate of flow (at 6.3 bar): 1700 l/min
- Operating pressure: 16 bar
- High-tech composite material with energy absorbing fibres. Extremely resistant against abrasion, impacts, crushes and vibrations
- Nominal size: 7.2 mm



Article No.	Article Description	QTY
3928 6 2	SAFETY COUPLING 6MM	1
3928 9 2	SAFETY COUPLING 9MM	1 z
3928 13 2	SAFETY COUPLING 13MM	1

Technical Data	
for hose-Ø mm	Length mm
6	78
8	78
12	84

Safety Coupling-Push Button, inside hose thread DK

- No risk of injury from flying compressed air hoses and no stentorian air release noise
- One actuation of the push-button activates the two-way safety pressure relief system
 - First step: coupling element is depressurized
 - Second step: disconnection of the coupled hoses
- Simple handling due to single-handed operation
- Fibre reinforced plastic with energy absorbing fibres
- Extremely resistant against abrasion, impact, crushing and vibrations
- Flow rate (at 6.3 bar): 1,820 l/min
- Operating pressure: 12 bar
- Operating temperature: -15 °C up to +70 °C
- Nominal size-Ø: 7.2 mm



Article No.	Article Description	QTY
3927 14 22	SAF.COUPL.EH DK IR 1/4"	1 z
3927 38 22	SAF.COUPL.EH DK IR 3/8"	1 z
3927 12 22	SAF.COUPL.EH DK IR 1/2"	1 z

Technical Data	
AF mm	Length mm
23	73
23	73
26	80

(EH = Einhand, DK = Druckknopf, IR = Innenrohrgewinde)

Safety Coupling Push-button outside hose thread DK

- No risk of injury from flying compressed air hoses and no stentorian air release noise
- One actuation of the push-button activates the two-way safety pressure relief system
 - First step: coupling element is depressurized
 - Second step: disconnection of the coupled hoses
- Simple handling due to single-handed operation
- Fibre reinforced plastic with energy absorbing fibres
- Extremely resistant against abrasion, impact, crushing and vibrations
- Flow rate (at 6.3 bar): 1,820 l/min
- Operating pressure: 12 bar
- Operating temperature: -15 up to +70 °C
- Nominal size-Ø: 7.2 mm
- With nitrile joint for optimum thread tightness



Article No.	Article Description	QTY
3926 14 22	SAFETY COUPL.EH DK AR 1/4"	1 z
3926 38 22	SAFETY COUPL.EH DK AR 3/8"	1 z
3926 12 22	SAFETY COUPL.EH DK AR 1/2"	1 z

Technical Data	
AF mm	Length mm
23	81
23	82
26	84

(EH = Einhand, DK = Druckknopf, IR = Innenrohrgewinde)

Safety Coupling Push-button, hose connection DK

- No risk of injury from flying compressed air hoses and no stentorian air release noise
- One actuation of the push-button activates the two-way safety pressure relief system
 - First step: coupling element is depressurized
 - Second step: disconnection of the coupled hoses
- Simple handling due to single-handed operation
- Fibre reinforced plastic with energy absorbing fibres
- Extremely resistant against abrasion, impact, crushing and vibrations
- Flow rate (at 6.3 bar): 1,820 l/min
- Operating pressure: 12 bar
- Operating temperature: -15 bis +70°C
- Nominal size-Ø: 7.2 mm



Article No.	Article Description	QTY
3928 6 22	SAFETY COUPL.EH DK 6MM	1 z
3928 9 22	SAFETY COUPL.EH DK 9MM	1 z
3928 13 22	SAFETY COUPL.EH DK 13MM	1 z

Technical Data	
for hoses-Ø mm	Length mm
6	87
8	87
12	92

(EH = Einhand, DK = Druckknopf)

Compressed Air Fittings Series 320

Coupling materials:

- Brass nickel-plated coupling parts
- Steel nickel-plated locking sleeve
- Valve made of brass and sealings made of nitrile
- Springs and locking balls made of stainless steel

Technical data:

- Flow rate (at 6 bar):2030 l/min
- Temperature:-30°C to +100°C

Couplings, Outside Thread

Technical Data

Art.-No.	SW mm	Length mm
3926 14 4	20	60
3926 38 4	20	57
3926 12 4	20	52



Article No.	Article Description	QTY
3926 12 4	COMPRESSED AIR COUPL.ST AR1/2"	1 z
3926 14 4	COMPRESSED AIR COUPL.ST AR1/4"	1 z
3926 38 4	COMPRESSED AIR COUPL.ST AR3/8"	1 z

Plug Nipple, Outside Thread

Technical Data

Art.-No.	SW mm	Length mm
3926 14 3	14	37
3926 38 3	17	37
3926 12 3	22	43



Article No.	Article Description	QTY
3926 12 3	PLUG NIPPLE SW22 STEEL AR 1/2"	1
3926 14 3	PLUG NIPPLE SW14 STEEL AR 1/4"	1
3926 38 3	PLUG NIPPLE SW17 STEEL AR 3/8"	1

Couplings, Inside Thread

Technical Data

Art.-No.	SW mm	Length mm
3927 14 4	20	56
3927 38 4	20	56
3927 12 4	25	56



Article No.	Article Description	QTY
3927 12 4	COMPRESSED AIR COUPL.ST IR1/2"	1 z
3927 14 4	COMPRESSED AIR COUPL.ST IR1/4"	1 z
3927 38 4	COMPRESSED AIR COUPL.ST IR3/8"	1 z

Plug Nipple, Inside Thread

Technical Data		
Art.-No.	SW mm	Length mm
3927 14 3	17	39
3927 38 3	19	40
3927 12 3	24	44



Article No.	Article Description	QTY
3927 12 3	PLUG NIPPLE SW24 STEEL IR 1/2"	1
3927 14 3	PLUG NIPPLE SW17 STEEL IR 1/4"	1
3927 38 3	PLUG NIPPLE SW19 STEEL IR 3/8"	1

Couplings Hose Connection

Technical Data			
Art.-No.	for hose-Ø mm	SW mm	Length mm
3928 6 4	6	19	64
3928 8 4	8	19	66
3928 10 4	10	19	67
3928 13 4	13	19	65



Article No.	Article Description	QTY
3928 6 4	COMPRESSED AIR COUPLING ST 6MM	1 z
3928 8 4	COMPRESSED AIR COUPLING ST 8MM	1 z
3928 10 4	COMPRESSED AIR COUPLING ST10MM	1 z
3928 13 4	COMPRESSED AIR COUPLING ST13MM	1 z

Nozzle Hose Connection

Technical Data		
Art.-No.	for hose-Ø mm	Length mm
3928 6 3	6	48
3928 8 3	8	48
3928 10 3	10	48
3928 13 3	13	48



Article No.	Article Description	QTY
3928 6 3	NOZZLE STEEL 6MM	1
3928 8 3	NOZZLE STEEL 8MM	1
3928 10 3	NOZZLE STEEL 10MM	1
3928 13 3	NOZZLE STEEL 13MM	1

Compressed Air Fittings Series 410

- With high air flow rate e.g. for 3/4" and 1" impact wrench

Materials:

- Coupling - brack nickel-plated, steel
- Plug nipple - steel zincedt

Technical Data:

- Flow rate (at 6 bar): 3,900 l/min
- Temperature range: -20 °C to 100 °C
- Nominal size: 10.4 mm

Coupling, male thread, Series 410 eSafe

Technical Data		
Art.-No.	SW mm	Length mm
3926 38 7 1	24	67.8
3926 12 7 1	24	70.3
3926 34 7 1	24	60.8



Article No.	Article Description	QTY
3926 38 7 1	COUPLING ESAFE 410 AR3/8	1 z
3926 12 7 1	COUPLING ESAFE 410 AR1/2	1 z
3926 34 7 1	COUPLING ESAFE 410 AR3/4	1 z

Couplings, internal thread, Series 410 eSafe

Technical Data		
Art.-No.	SW mm	Length mm
3927 12 9 1	25	67.3



Article No.	Article Description	QTY
3927 12 9 1	COUPL.INT.THREAD 410 IR1/2	1 z

Coupling outside thread series 410 eSafe

Technical Data	
SW mm	Length mm
24	67.8
24	70.3
24	60.8



Article No.	Article Description	QTY
3926 38 7 1	COUPLING ESAFE 410 AR3/8	1 z
3926 12 7 1	COUPLING ESAFE 410 AR1/2	e 10
3926 34 7 1	COUPLING ESAFE 410 AR3/4	1 z

Plug Nipple Outside Thread Series 410

Technical Data

Art.-No.	SW mm	Length mm
3926 14 8	17	41.0
3926 38 8	17	41.0
3926 12 8	22	48.0
3926 34 8	27	52.5



Article No.	Article Description	QTY
3926 14 8	PLUG NIPPLE 410 AR1/4"	1 ü
3926 38 8	PLUG NIPPLE 410 AR3/8"	1 ü
3926 12 8	PLUG NIPPLE 410 AR 1/2"	1
3926 34 8	PLUG NIPPLE 410 AR3/4"	1 z

Plug Nipple Inside Thread Series 410

Technical Data

Art.-No.	SW mm	Length mm
3927 14 10	17	36
3927 38 10	20	38
3927 12 10	27	43.5



Article No.	Article Description	QTY
3927 12 10	PLUG NIPPLE 410 IR1/2"	1 z
3927 14 10	PLUG NIPPLE 410 IR1/4"	1 ü
3927 38 10	PLUG NIPPLE 410 IR3/8"	1 ü

Nozzle Hose Connection Series 410

Technical Data

Art.-No.	SW mm
3927 12 8	45
3927 58 8	47.5
3927 34 8	48



Article No.	Article Description	QTY
3927 12 8	PLUG NIPPLE 410 13MM	1 ü
3927 34 8	PLUG NIPPLE 410 19MM	1 ü
3927 58 8	PLUG NIPPLE 410 16MM	1 ü

Compressed Air Signal Hose

- Very flexible signal hose for professional use in industry, workshops and construction

Your Advantage / Benefit

- Easily visible signal colour
- Abrasion-resistant
- Extremely flexible
- Silicone-free

Application

- Suitable for all compressed air devices that require a 10 mm internal hose diameter
- The signal colour can prevent accidents caused by stumbling



Technical Data			
Art. No.:	3924 10 10	3924 10 25	3924 13 25 1
Inner Ø mm:	10	10	13
Outer Ø mm:	16	16	19
Operating pressure:	20 bar	20 bar	20
Bursting pressure:	68 bar	68 bar	68 bar
Temperature-resistant:	-40°C to +65°C	-40°C to +65°C	-40°C to +65°C
Hose length:	10 m	25 m	25 m

Article No.	Article Description	QTY
3924 10 10	RI(10M)SLSIGN.HOSE YELL.10/16	1
3924 10 25	RI(25M)SLSIGN.HOSE YELL.10/16	1
3924 13 25 1	RI(25M)SLSIGNALHOSE YELL.13MM	1

Related Products

- Aluminium Hose Holder
Art.-No. 3920 1 65
Art.-No. 3920 1 97
Art.-No. 3920 1 130



- Couplings Hose Connection Serie 320
Art.-No. 3928 10 4



- Nozzle Hose Connection Serie 320
Art.-No. 3928 10 3



- Max impact screwdriver 1/2" 1.700 Nm
Art.-No. 5350 9012 5



Compressed Air Hose PVC

- With black inside core and blue cleading
- Bendable with small bending radius
- Buckle and wear resistant
- Chemical resistant
- Temperature resistant from -20°C to +65°C
- Usable for compressed air, water and other fluids

Technical Data

Art.-No.	Outside-Ø mm	allowed working- pressure bar	max. working pressure bar
3924 6 15	10.5	18	18
3924 6 30	10.5	18	18
3924 8 15	12.5	15	15
3924 8 30	12.5	15	15
3924 12 15	17.0	11	11
3924 12 30	17.0	11	11



Article No.	Article Description	QTY
3924 6 15	RI (15M)PVC COMPR.AIR HOSE 6MM	1
3924 6 30	RI (30M)PVC COMPR.AIR HOSE 6MM	1
3924 8 15	RI (15M)PVC COMPR.AIR HOSE 8MM	1
3924 8 30	RI (30M)PVC COMPR.AIR HOSE 8MM	1
3924 12 15	RI (15M)PVC COMPR.AIR HOSE12MM	1
3924 12 30	RI (30M)PVC COMPR.AIR HOSE12MM	1

(Inside-Ø in mm)

Compressed Air Hose PUR

- With black inside core and blue cleading
- High-quality industrial hose made of polyurethane
- Buckle resistant with long lifetime
- Stays soft and elastic even at extreme low temperatures
- Temperature resistant from -15°C to +60°C
- Allowed working pressure bar: 15

Article No.	Article Description	QTY
3924 9 25	RI(25M)COMP.A.HOSE SOFT 9X14.5	1
3924 13 25	RI(25M)COMP.A.HOSE SOFT 13X19	1

(Inside-Ø X outside-Ø in mm)



Aluminium Hose Holder

- For water, oil and air hoses
- For electronic cable

Technical Data

Width in mm	Height in mm	Depth in mm	Weight in kg
165	90	65	0.3
248	118	97	0.5
340	155	130	1.2

Article No.	Article Description	QTY
3920 1 65	ALUMINIUM HOSE HOLDER SH 65	1
3920 1 97	ALUMINIUM HOSE HOLDER SH 97	1
3920 1 130	ALUMINIUM HOSE HOLDER SH 130	1



Spiral Hose Nylon

- Complete with connections
- Resistant against oil, fuels, organic and inorganic medias
- Temperature resistant from -40°C to +100°C
- Max. working pressure: 15 bar

Article No.	Article Description	QTY
3922 65	SPIRAL HOSE COMPLETE 6MM/5M	1
3922 88	SPIRAL HOSE COMPLETE 8MM/8M	1

(Inside-Ø in mm / max. working length in m)

Scope of delivery:

- 1x Art.-No. 3925 6 8 / 3925 9 12: Plug and socket connector
- 1x Art.-No. 3925 6 8 1 / 3925 9 12 1: Plug nipple



Spiral hose PUR eSafe

- With straight hose endings at both ends
Especially practical when setting aside equipment without uncoupling the hose e.g. underbody sealant guns with canister screwed on (no falling over), etc.
- Highly flexible, even at temperatures as low as -50 °C
- Excellent chemical resistance
- Max. operating pressure at +20 °C: 10 bar
- Complete with connectors (1x eSafe safety coupling and 1x plug nipple)

Article No.	Article Description	QTY
3922 8 2	SPIRAL HOSE PUR ESAFE 8MMX2M	1
3922 8 6	SPIRAL HOSE PUR ESAFE 8MMX6M	1
3922 8 8 0	SPIRAL HOSE PUR ESAFE 8MMX8M	1



Compressed Air Coupling for Spiral Hose PUR

- Mounting via union nut, without hose clamp
- Flow rate (at 6 bar): 2,030 l/min
- Length 64 mm

Art.-No. 3925 812:

- For hoses inside \varnothing 8 mm and outside \varnothing 12 mm
- SW 20/19 mm

Art.-No. 3925 95 135

- For hoses inside \varnothing 9.5 mm and outside \varnothing 13.5 mm
- SW 21/20 mm



Article No.	Article Description	QTY
3925 8 12	COUPLING FOR PUR HOSE 8X12MM	1 z
3925 95 135	COUPLING F.PUR HOSE 9.5X13.5MM	1 z

(Hose inside- \varnothing x outside- \varnothing mm)

Compressed Air Plug Nipple for PUR Hoses

- Mounting via union nut, without hose clamp
- Flow rate (at 6 bar): 2,030 l/min

Art.-No. 3925 8 12 1:

- For hoses with inside- \varnothing 8 mm and outside- \varnothing 12 mm
- SW 19 mm
- Length 47 mm

Art.-No. 3925 95 135 1:

- For hoses with inside- \varnothing 9.5 mm and outside- \varnothing 13.5 mm
- SW 21 mm
- Length 49 mm



Article No.	Article Description	QTY
3925 8 12 1	NIPPLE FOR PUR HOSE 8X12MM	1
3925 95 135 1	NIPPLE FOR PUR HOSE 9.5X13.5MM	1 z

(Hose inside- \varnothing x outside- \varnothing mm)

Compressed Air Hose Retractor 15 m

- With reversing adjustment and activation
- Compressed air hose made of PU with inside braiding
 - Absolutely oil resistant
 - Absolutely resistant against buckling and extension
 - UV resistant
- Hose length: 15 m
- Hose-Ø inside: 8 mm
- Hose-Ø outside: 12 mm
- Pressure max.: 10 bar permanently
- Housing made of impact resistant plastic
- Swivelling wall holder
- Connection:
 - 1/4" outside thread at air supply
 - 1/4" outside thread at hose



Article No.	Article Description	QTY
3920 15 1	HOSE RETRACTOR 8/12MM 15M	1

Compressed Air Hose Retractor Drum 9 m

- With reversing adjustment and activation
- Compressed air hose made of PU inside braiding
 - Absolutely oil resistant
 - Absolutely resistant against buckling and extension
- Hose length: 9 m
- Hose-Ø inside: 8 mm
- Hose-Ø outside: 12mm
- Pressure max.: 10 bar permanently
- Housing made of impact resistant plastic
- Swivelling wand holder
- Connection
 - 1/4" outside thread at air supply
 - 1/4" outside thread at hose



Article No.	Article Description	QTY
3920 9	HOSE RETRACTOR 8/12MM 9M	1

Compressed Air Hose Retractor Hose 10 m

- With reversing adjustment and activation
- Compressed air hose made of PU with inside braiding
 - Absolutely oil resistant
 - Absolutely resistant against buckling and extension
- Hose length: 10 m
- Hose-Ø inside: 10 mm
- Hose-Ø outside: 15 mm
- Pressure max.: 10 bar permanently
- Housing made of impact resistant plastic
- Swivelling wand holder
- Connection:
 - 3/8" outside thread at air supply
 - 3/8" outside thread at hose



Article No.	Article Description	QTY
3920 10 1	HOSE RETRACTOR 10/15MM 10	1

Compressed Air Hose Retractor 16 m

- With reversing adjustment and activation
- Compressed air hose made of PU with inside braiding
 - Oil resistant
 - Absolutely resistant against buckling and extension
- Hose length: 16 m
- Hose-Ø inside: 12 mm
- Hose-Ø outside: 18 mm
- Pressure max.: 15 bar permanently
- Housing made of impact resistant plastic
- Swivelling wand holder
- Connection:
 - 1/2" outside thread at air supply
 - 1/2" outside thread at hose



Article No.	Article Description	QTY
3920 16	HOSE RETRACTOR 12/18MM 16M	1

Compressed Air Hose Retractor 20 m

- With reversing adjustment and activation
- Compressed air hose made of PU with inside braiding
 - Oil resistant
 - Absolutely resistant against buckling and extension
- Hose length: 20 m
- Hose-Ø inside: 10 mm
- Hose-Ø outside: 15 mm
- Pressure max.: 15 bar permanently
- Housing made of impact resistant plastic
- Swivelling wand holder
- Connection:
 - 3/8" outside thread at air supply
 - 3/8" outside thread at hose



Article No.	Article Description	QTY
3920 20 2	HOSE RETRACTOR 10/15MM 20M	1

Hose Retractor with Compressed Air Hose

- Aluminium cast drum with swivelling outlet holder
- Assembled with special PVC hose and hose buffer
- The drum can snapped in once per rotation and thus an easier traction of the hose is given
- A short traction at the hose unlocks the snapping and the hose rolls itself up completely
- Corrosion resistant
- Robust
- Maintenance-free
- Usable inside and outside - in dry, humid, hot and cool areas
- Working pressure: max. 20 bar / 20°C
- Connections:
 - Inlet 3/8"- pipe inside thread
 - Outlet 3/8"- pipe outside thread
- Hose-Ø 10mm



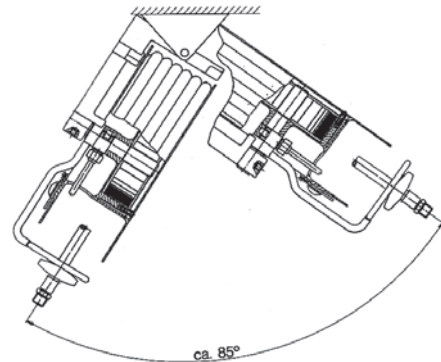
Article No.	Article Description	QTY
3920 10	HOSE RETRACTOR 31010 10M	1
3920 15	HOSE RETRACTOR 31510 15M	1
3920 20	HOSE RETRACTOR 32010 20M	1

(Hose-Length m)

Wall Mounting Plate

- Makes swivelling use up to 85° of hose retractor possible

Article No.	Article Description	QTY
3920 30	WALL PLATE PIVOTED SWP3	1



Compressed Air - Cable Drum 30 m

- Practical drum with solid practical winder and high quality connections guarantees durability
- Very light special hose 30 m weighing only 1.6 kg
- Extremely flexible and almost wear-free as well as efficient working on roofs, walls and facade
- Hose remains elastic even in cold temperatures

Technical Data

Hose length:	30 m
Hose-Ø:	8.5 mm
Max. working pressure:	15 bar
Weight:	7 kg
Dimension LxWxH:	355 x 225 x 370 mm



Article No.	Article Description	QTY
5357 1	COMPRESSED AIR-CABLE DRUM	1

Included in delivery:

- Cable drum, 30 m special hose, hose couplings, mounting with secure frame, hinged wind lever

Compressed Air - Cable Drum

- Sheet steel drum, assembled with fabric reinforced compressed air hose
- Working pressure: max. 10 bar

Art.-No. 3921 1 and 3921 2:

- Compressed air - cable drum with hose, connection nipple and quick-connect coupling

Art.-No. 3921 3:

- Compressed air - cable drum with distributor, 2 additional quick-connect couplings act as air distributor station and enables the construction of supply chains, e. g. at often alternating tools or separated workplaces.

Article No.	Article Description	QTY
3921 1	COMPRES.AIR-CABLE DRUM 6MMX25M	1
3921 2	COMPRES.AIR-CABLE DRUM 9MMX20M	1
3921 3	CA-DISTRIB.CABLE DRUM 9MMX20M	1

(Hose-Ø mm/ L m)



Compressed Air Hose, Extension with Coupling

- With connections
- PVC hose
- Working pressure: max. 15 bar
- Temperature range: -15°C up to +60°C

Article No.	Article Description	QTY
3921 1 1	RI(25M)COMPRESSED AIR HOSE 6MM	1
3921 2 2	RI(20M)COMPRESSED AIR HOSE 9MM	1

(For hose-Ø mm)



Filter Pressure Reducer

Technical Data				
Art.-No.	3935 14 1	3935 38 1	3935 12 1	3935 34 1
Connection thread	1/4"	3/8"	1/2"	3/4"
Nominal flow rate	2,000 l/min.	3,000 l/min.	5,500 l/min.	6,500 l/min.
Filter pore width	40 µm	40 µm	40 µm	40 µm
Primary pressure max.	16 bar	16 bar	16 bar	16 bar
Secondary pressure max.	10 bar	10 bar	10 bar	10 bar
Ambient temperature max.:	50°C	50°C	50°C	50°C
Condensate volume:	25 cm ³	25 cm ³	85 cm ³	85 cm ³
Condensate emptying:	manual	manual	manual	manual
Weight (without pressure gauge):	460 g	460 g	1.150 g	1.150 g
Pressure gauge:	3936 14 38	3936 14 38	3936 12 34	3936 12 34



Article No.	Article Description	QTY
3935 14 1	FILTER PRESSURE REDUCER G 1/4"	1
3935 38 1	FILTER PRESSURE REDUCER G 3/8"	1
3935 12 1	FILTER PRESSURE REDUCER G 1/2"	1
3935 34 1	FILTER PRESSURE REDUCER G 3/4"	1

Maintenance Unit

Technical Data				
Art.-No.	3936 14 2	3936 38 2	3936 12 2	3936 34 2
Connection thread	1/4"	3/8"	1/2"	3/4"
Nominal flow rate	1,500 l/min.	1,800 l/min.	3,400 l/min.	5,000 l/min.
Filter pore width	40 µm	40 µm	40 µm	40 µm
Primary pressure max.	16 bar	16 bar	16 bar	16 bar
Secondary pressure max.	10 bar	10 bar	10 bar	10 bar
Ambient temperature max.:	50°C	50°C	50°C	50°C
Condensate volume:	25 cm ³	25 cm ³	85 cm ³	85 cm ³
Condensate emptying:	manual	manual	manual	manual
Oil volume:	50 cm ³	50 cm ³	125 cm ³	125 cm ³
Oiler function:	von 50 l/min.	von 50 l/min.	von 150 l/min.	von 150 l/min.
Weight (without pressure gauge):	720 g	720 g	2,070 g	2,070 g
Pressure gauge:	3936 14 38	3936 14 38	3936 12 34	3936 12 34



Article No.	Article Description	QTY
3936 12 2	MAINTENANCE UNIT 2PART G 1/2"	1
3936 14 2	MAINTENANCE UNIT 2PART G 1/4"	1
3936 34 2	MAINTENANCE UNIT 2PART G 3/4"	1
3936 38 2	MAINTENANCE UNIT 2PART G 3/8"	1

Pressure reducer 3/8"

Technical Data	
connection thread:	3/8"
Nominal flow rate:	3 200 l/min.
max. form:	25 bar
max. secondary pressure:	10 bar
Ambient temperature:	50°C
Weight (without manometer):	390 g
Manometer:	Item no. 3936 14 38

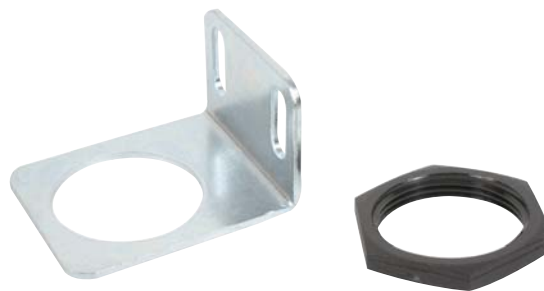
Article No.	Article Description	QTY
3935 38 2	PRESSURE REDUCER 3/8"	1



Mounting Bracket

- Suitable for filter pressure reducer and maintenance unit

Article No.	Article Description	QTY
3936 14 38 1	MOUN.BRACK.WITH NUT F.1/4"3/8"	1
3936 12 34 1	MOUN.BRACK.WITH NUT F.1/2"3/4"	1



Pressure Gauge

- Suitable for filter pressure reducer and maintenance unit

Technical Data		
Pressure gauge	Outside thread	Ø
3936 14 38	1/4"	40 mm
3936 12 34	1/4"	50 mm

Article No.	Article Description	QTY
3936 12 34	PRESSURE GAUGE F. 1/2"AND 3/4"	1
3936 14 38	PRESSURE GAUGE F. 1/4"AND 3/8"	1



Pneumatic tools

Oiler

- Non-adjustable oiler for direct connection to pneumatic Tools
- Oil mist develops when steady flow of air

Technical Data

Connection thread:	Input G 1/4" IG Output G 1/4" AG
Flow rate:	approx 2,000 l/min at 6 bar
Material:	Housing aluminium casting Oil sight glass polykarbonate
Operating pressure:	0.5 – 10 bar
Usable tank capacity:	5.5 cm ³
Dimension:	60 x 35 mm
Filling:	easy to be filled due to the oil filler plug
Flow direction:	Optional, intake socket has to be immersed in the oil!



Article No.	Article Description	QTY
3936 14 1	OILER 1/4"	1

Special Oil for Pneumatic Tools

- Provides longer service life of pneumatic tools
- For lubricating pneumatic motors and for corrosion protection

Article No.	Article Description	QTY
5354 100	SPECIAL AIR OIL 1000ML	1



Compressed Air - Pipeline System

This innovative compressed air - pipeline system with its patented plug connectors combines all the advantages of self-installation with the quality of previous installed systems:

- Fast and easy installation
- Cost saving
- Compatible to previous systems with same pipe diameter
- Corrosion resistant
- Extendible
- Solutions for individual demands
- No special tools required



Compressed Air - Pipeline

- Compressed air pipes made of high-quality aluminium (ALMgSi 0,5), non-sensitive in vibration and dimensionally stable in comparison to plastic pipes
- Easy processing due to use of hand saw
- Working pressure: max. 18 bar
- Nominal capacity:
 - Ø 15 mm 1000 l/min
 - Ø 22 mm 2000 l/min

Recommendation:

- Ring line from compressor 22 mm Ø
- Stub from ring line to connection 15 mm Ø

Article No.	Article Description	QTY
3931 222	COMPRESS.AIR PIPELINE 22MM/2M	3
3931 322	COMPRESS.AIR PIPELINE 22MM/3M	3
3931 622	COMPRESS.AIR PIPELINE 22MM/6M	3
3931 215	COMPRESS.AIR PIPELINE 15MM/2M	3
3931 315	COMPRESS.AIR PIPELINE 15MM/3M	3
3931 615	COMPRESS.AIR PIPELINE 15MM/6M	3

(Outer-Ø mm / pipe length in m)



Conducting Clips

- Ideal for quick wall fastening of conductions
- Recommended mounting distance: 1 m
- Fixation with peg 6 mm and screw 3.5 x 45 mm



Article No.	Article Description	QTY
3931 822	COMPRESSED AIR COND.CLIP 22	10
3931 815	COMPRESSED AIR COND.CLIP 15	10

(Conduction- Ø in mm)

T-Joint 3 Ways

Technical Data

Material: Acetale copolymere
Colour: black
Max. operating pressure at 20 °C: 11 bar

Article No.	Article Description	QTY
3931 9221	COMPR.AIR T-JOINT 22-22-22	e 10
3931 9222	COMPR.AIR T-JOINT 22-15-22	e 10
3931 9151	COMPR.AIR T-JOINT 15-15-15	e 10

(Conduction- Ø in mm)



G-Joint Straight

Technical Data

Material: Acetale copolymere
Colour: black
Max. operating pressure at 20 °C: 11 bar

Article No.	Article Description	QTY
3931 9223	COMPR.AIR CONNECT.STRAIGHT 22	e 10
3931 9153	PLUG CNCTR.STRAIGHT PLAST.15MM	e 10

(Conduction- Ø in mm)



W-Joint Angle

Technical Data

Material: Acetale copolymere
Colour: black
Max. operating pressure at 20 °C: 11 bar

Article No.	Article Description	QTY
3931 9224	COMPR.AIR ANGLE CONNECTOR 22	e 10
3931 9154	COMPR.AIR ANGLE CONNECTOR 15	e 10

(Conduction- Ø in mm)



Quick Connector

- For pipe connection at junction box, ball valve or maintenance unit

Technical Data

Material:	Acetale copolymere
Colour:	black
Max. operating pressure at 20 °C:	11 bar

Article No.	Article Description	QTY
3931 9225	QUICK CONNECTOR AG 3/4" 22MM	e 10
3931 9155	QUICK CONNECTOR AG 1/2" 15MM	e 10

(Connection thread/ conduction-Ø in mm)



Stopper

Technical Data

Material:	Acetale copolymere
Colour:	black
Max. operating pressure at 20 °C:	11 bar

Article No.	Article Description	QTY
3931 422	COMPRESSED AIR STOPPER 22	1
3931 415	COMPRESSED AIR STOPPER 15	1

(Conduction-Ø in mm)



Screw-in Sockets

- With a straight connector the junctions can be attached directly to the pipe-Ø 22mm without coupling

Technical Data

Material:	Acetal Copolymer
Farbe:	schwarz
max. Betriebsdruck bei 20 °C:	11 bar

Article No.	Article Description	QTY
3931 155	EINSCHRAUBSTUTZEN AG1/2" 22MM	e 10

(Connection thread / conduction-Ø in mm)



Junction with Coupling

Article No.	Article Description	QTY
3931 101	END DISTR.POINTS W.COUP.1 15MM	1
3931 105	END DISTR.POINTS W.COUP.1 22MM	1

(Conduction-Ø in mm)



Junction without Coupling

- Thread 1/2"

Article No.	Article Description	QTY
3931 1522	JUNCTION WITHOUT COUPLING 2	e 10
3931 1532	JUNCTION WITHOUT COUPLING 3	e 10

(Capability of connecting)



Ball Valve

Article No.	Article Description	QTY
3931 7934	BALL VALVE IG 3/4"	1
3931 7912	BALL VALVE IG 1/2"	e 10



VARO Shelving and Stocking System

- FÖRCH VARO shelving and storage system consists of special units which can be combined into a tower
- The result is your personal VARO system
- VARO is space saving
- Sizes of one tower HxWxD: 2.160 x 784 x 400 mm
- Each VARO tower can be positioned separately = in terms of workplace

The benefits that VARO brings you

Optimum use of space

- Customised, space-saving structure in your workshop
- Modules are matched to our packaging
- Can be easily extended

Clearly arranged stocking

- Individual modules for the respective product groups
- Standardised labelling of the bin locations

Low rent

- No finance costs

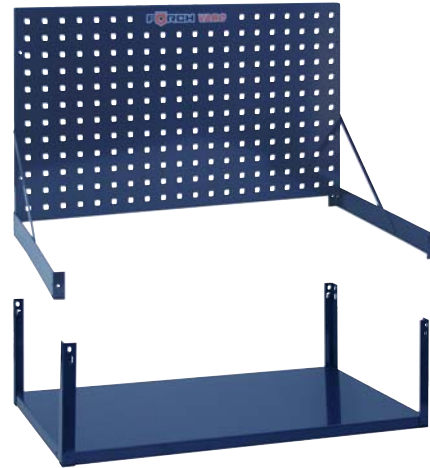
For you, this means

- Shorter paths, less expenditure of time, greater effectiveness and minimisation of your process costs

VARO Base / Perforated Panel Unit

- Dimensions base (H x W x D): 240 x 784 x 400 mm
- Dimensions perforated panel (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf board: 35 kg surface weight
- Max. load per shelf area: 300 kg

Article No.	Article Description	QTY
9100 0	VARO 0/9 BASE/PERFORATED PANEL	1



VARO Closure and Base Unit

- Dimensions (H x W x D): 240 x 784 x 400 mm
- Load capacity per shelf board: 35 kg surface weight
- Max. load per shelf area: 300 kg

Article No.	Article Description	QTY
9100 07	VARO 0/7 BASE/CLOSURE UNIT	1



VARO Box Units

- Dimensions (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf board: 35 kg surface weight
- Max. load per shelf area: 300 kg

Art. No. 9100 2:

- 3 shelves divided for 21 / 42 boxes size 2 Art. No. 9056 1 or 21 shelf boxes blue Art. No. 9054 400 93 or 21 tool boxes

Art. No. 9100 3:

- 3 shelves for 15 transparent boxes size 3 Art. No. 9057 1 or 12 shelf boxes blue Art. No. 9054 400 186

Article No.	Article Description	QTY
9100 2	VARO 3 TRAYS SIZE 3	1
9056 1	VARO STORAGE BOX BLUE SIZE 2	e 72
9054 400 93	SHELF-BOX RK 400/93 BLUE	e 16
9054 93	DIVIDING WALL RK/T 93	e 25
9100 3	VARO 3 TRAYS SIZE 3	1
9057 1	VARO STORAGE BOX GR.3 BLUE	e 30
9054 400 186	SHELF-BOX RK 400/186 BLUE	e 8
9054 186	DIVIDING WALL RK/T 186	e 25



VARO Flap Carton Unit

- Dimensions (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf board: 35 kg surface weight
- Max. load per shelf area: 300 kg
- Fall of chute 10°
- Height 70 mm
- 10 dividers create 12 compartments
- Two-fold

Article No.	Article Description	QTY
9100 23	VARO 23 FLAP CARTON UNIT 2FOLD	1



VARO Chem. Elements with Variable Stirrup Brackets

- Dimensions (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf: 35 kg surface distributed
- Max. load per shelf box: 300 kg
- For all aerosol cans and various kinds of packages such as litre cans, cartridges, etc.
- The chemical element can be individually assembled using the removable stirrup

Art. No. 9100 55:

- 1x with 10 metal brackets

Art. No. 9100 44:

- 2x with 20 metal brackets
- Shelf distance: 215 mm

Article No.	Article Description	QTY
9100 55	VARO 55 CHEMICAL 1-SHELF	1
9100 44	VARO 44 CHEMICAL 2-SHELVES	1



VARO Universal / Carton Unit

- Dimensions (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf: 35 kg surface distributed
- Max. load per shelf box: 300 kg

Art. No. 9100 7:

- 1 shelf

Art. No. 9100 77:

- 2 shelves

Art. No. 9100 6:

- Shelf is tilted forward to make access to parts easier

Article No.	Article Description	QTY
9100 7	VARO 7 UNIVERSAL BASE	1
9100 77	VARO 77 UNIVERSAL BASE 2LEVELS	1
9100 6	VARO 6 CARTON CHEMISTRY	1



VARO Lamp Cabinet

- Dimensions (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf: 35 kg surface distributed
- Max. load per shelf box: 300 kg
- Lockable
- 2 height adjustable shelves

Article No.	Article Description	QTY
9100 22	VARO LAMP CABINET	1
9100 22 1	LOCK,VARO LAMP CABINET	1

Scope of delivery:

- Art. No. 3805 10: lamp tester
- Art. No. 3880N 9: E block



VARO Drawer Unit

- Dimensions (H×W×D): 480×784×400 mm
- Load capacity per shelf: max. 14 kg
- Max. load per shelf box: max. 50 kg
- Sorted and clear storage of valuable parts and all DIN and standard parts in the assortments
- 3 FÖRCH assortments fit in each drawer

Art. No. 9100 1:

- Drawer element has 3 individual drawers

Art. No. 9100 8:

- Drawer element has 5 individual drawers
- Lockable



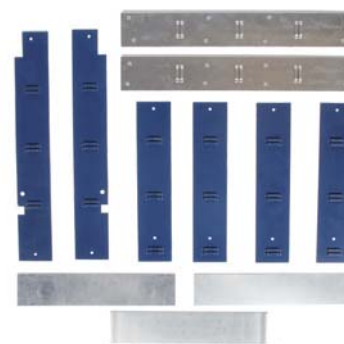
Article No.	Article Description	QTY
9100 1	VARO 1 3-DRAWER	1
9100 8	VARO 8 5-DRAWER	1
9100 8 1	LOCK - DIFFERENT FOR 9100 8	1
9100 8 2	MASTER KEY FOR 9100 8 1	1

VARO Retrofit Divider Set for Drawer Unit

- Individual assembly of drawer
- 6 drawer tray mounts pre-glued with double sided tape

Technical Data	
Item elements:	Dimensions (L×S×H):
2 drawer tray mounts long	333 × 1.10 × 50 mm
4 compartment mounts short	233 × 3.30 × 50 mm
2 dividers	235 × 1.60 × 50 mm
3 longitudinal dividers	223 × 0.95 × 50 mm

Article No.	Article Description	QTY
9100 8 3	DIVIDER SET DRAWER 11-PCE	1



VARO Rubber Insert for Drawers

- No scratching of the drawer bottom
- No slipping of the contents in the drawer
- Noise-reducing when inserting small metal parts
- Rubber inlay 700 × 332 mm

Article No.	Article Description	QTY
9100 8 4	RUBBER INSERT DRAWER 700X332	e 5



VARO Unit for Threaded Rods

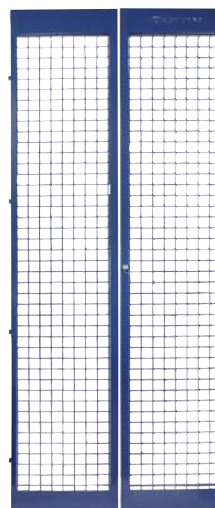
- Dimensions (H×W×D): 784×480×400 mm
- For threaded rods, rails and profiles

Article No.	Article Description	QTY
9100 24	VARO 24 THREADED ROD - RACK	1



VARO Screen Door Pair Retrofit Kit

- Lockable screen door pair
- Easy mounting on any VARO shelf unit possible
- Dimensions (H x W x D): 1,900 x 780 x 45 mm



Article No.	Article Description	QTY
9100 27	VARO 27 LATTICE DOOR	1
9100 27 001	MASTERKEY VARO LATTICE DOOR	1
9100 27 002	E-LOCK VAR.KEY.V.LATTICE DOOR	1
9100 27 003	E-LOCK SIMULTANEOUS LO.LAT.D.	1

VARO Perforated Rear Side Panel

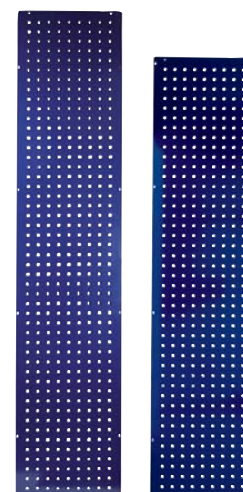
- Additional storage space for hooks, roll holder and various work materials
- Easy mounting on any VARO shelf unit possible

Art. No. 9100 98:

- Dimensions (H x W x D): 1,920 x 395 x 1.5 mm
- Suitable for base / perforated panel unit Art. No. 9100 0

Art. No. 9100 99:

- Dimensions (H x W x D): 1,920 x 395 x 1.5 mm
- Suitable for base / perforated panel unit Art. No. 9100 07



9100 99

9100 98

Article No.	Article Description	QTY
9100 99	VARO 99 PERF.REAR SIDE PANEL	1
9100 98	VARO 98 PERF.RE.SIDE PAN.SHORT	1

VARO Corner Rack with Perforated Panel

- Contact width: 500 mm
- In total 4 shelf boards
- Load capacity per shelf board: 35 kg surface weight
- Max. load per shelf area: 300 kg

Art. No. 9100 25:

- Dimensions (H x W x D): 2,160 x 784 x 784 mm

Art. No. 9100 25 1:

- Dimensions (H x W x D): 1,920 x 784 x 784 mm



9100 25



9100 25 1

Article No.	Article Description	QTY
9100 25	VARO 25 CORNER RACK	1
9100 25 1	VARO-CORNER RACK W.COVER CAP	1

VARO Cabinet with Perforated Panel

- 2 doors, cylinder lock
- 4 shelf boards, 3 of them with height adjustment
- Capacity per shelf board: 50 kg
- Dimensions (H x W x D): 2,160 x 784 x 400 mm

Article No.	Article Description	QTY
9100 21	VARO 21 CABINET WITH PERF.PAN.	1
9100 21 9	LOCK FOR VARO CABIN.21 TO 9/07	1
9100 21 10	LOCK FOR VARO CAB.21 FROM10/07	1
9100 21 2	SHELF BASE W.SUPPORT 776X360MM	1 v
9100 21 2 1	SUPPORT FOR SHELF BASE "M"	1
9100 21 2 2	SUPPORT FOR SHELF BASE "D"	1



VARO Windscreen Wiper Display Rack

- Dimensions (H x W x D): 2,165 x 783 x 400 mm
- Clear and space-saving arrangement
- Customer-orientated, encourages sales
- Simple inventory control
- The utmost stability through a wall-mount, or with 2 windscreen wiper display racks screwed back-to-back
- Up to 20 hooks for a perforated wall available for different types of wiper

Article No.	Article Description	QTY
9100 41	VARIO CABINET	1

Scope of delivery:

- Wall attachment set, assembly instructions

Compatible accessories:

- Art. No. 9101 1200: slat wall hooks

Wiper blade usage list:

- Art. No. 9890 25: SWF car/commercial vehicle
- Art. No. 9890 3058 3059: ECO Flat wiper blades vehicle
- Art. No. 9890 3059: ECO Metal wiper bl.vehicle
- Art. No. 9890 3059 9: ECO Metal wiper bl. comm.vehicle



VARO Workshop Mobile Toolbench

- Flexible, mobile VARO module for trades and industrial requirements
- Colour: RAL 5003 blue
- Dimensions:**
- VARO mobile trolley overall (H×W×D): 1.341 × 784 × 401 mm
- Clear height of empty bottom compartment: 229 mm
- Wooden worktop: 50 mm



Article No.	Article Description	QTY
9100 8 10	VARO WORKSHOP MOBILE TOOLBENCH	1

Your Advantage / Benefit

- Allows flexible workplace design
- With built-in 5-drawer unit for organised storage of sorted small parts
- Can be integrated into FÖRCH VARO shelf and storage system
- Perforated tool-holder panel, also for consumables
- Stable worktop for various assembly and dismantling jobs
- Bottom module for heavy spare parts, tools and case sets
- Mounting vice possible

Application

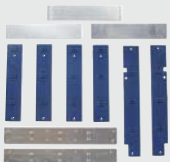
- Ideal as flexible workplace for electricians
- Flexible and stationary workspace for automotive, construction trades and industry
- Storage space



Related Products

- **VARO** Retrofit divider set for drawer unit

Art. No. 9100 8 3



- **VARO** Rubber insert for drawers

Art. No. 9100 8 4



- Vices

Art. No. 4718 120



Electronic Lettering Instrument

- To create high-value, self-adhesive labels
- Printing preview visible in the LCD-display with 13 characters
- 2 different font sizes
- Shortcut key for punctuation mark and currency symbols
- Memory function for last printed label
- Required batteries: 6 pieces of Mignon (AA), not included in delivery
- 19 different languages can be set: GER, EST, ENG, SPA, FRE, ITA, LAV, LIT, HUN, DUT, NOR, POL, POR, SLV, FIN, SWE, TUR, CZE, DAN



Article No.	Article Description	QTY
9851 5000	LABEL PRINTER DYMO-POCKET	1
9851 5001	LABEL CASS.12MMX7M F.DYMO-POC.	e 5

Scope of delivery:

- Labelling device with scroll tape 12 mm x 3 m

Cable Dispenser System

- For clear, space-saving storage
- Individually removable cable spools
- Cable spool stopper in addition for the holder
- One or more spool holder can be mounted on all FÖRCH perforated panels or rack systems

Art. No. 3799 1:

- Dimensions (H x W x D): 145 x 95 x 140 mm

Art. No. 3799 4:

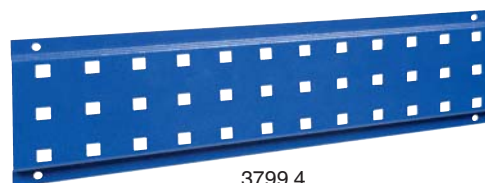
- for 4 cable spool holder
- Dimensions (H x W x D): 133 x 465 x 15 mm

Art. No. 3799 370:

- Dimensions (H x W x D): 110 x 105 x 135 mm

Art. No. 3799 10:

- Tape dispenser



3799 4



3799 1



3799 370



3799 10

Article No.	Article Description	QTY
3799 1	CABLE SPOOL HOLDER	1
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 370	CABLE SPOOL STOPPER	1
3799 10	ADH.TAPED DISP.SYST.AXIS	1

Cable Dispenser – Assembled

Contents Art. No. 3729 4:

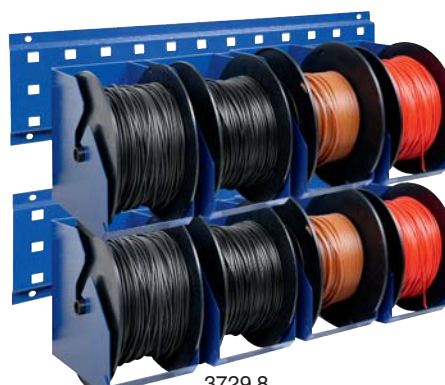
Article No.	Article Description	Quantity
3720 075	RO(100M) CABLE FLY 0.75 BLACK	1
3720 15	RO(100M) CABLE FLY 1.5 BLACK	1
3720 15 2	RO(100M) CABLE FLY 1.5 RED	1
3721 2 075	RO(50M) SPEAKER CABLE 2X0,75	1
3799 1	CABLE SPOOL HOLDER	4
3799 4	PERFORATED PANEL FOR DISPENSER	1



3729 4

Contents Art. No. 3729 8:

Article No.	Article Description	Quantity
3720 075	RO(100M) CABLE FLY 0.75 BLACK	1
3720 075 2	RO(100M) CABLE FLY 0.75 RED	1
3720 15	RO(100M) CABLE FLY 1.5 BLACK	1
3720 15 2	RO(100M) CABLE FLY 1.5 RED	1
3720 15 8	RO(100M) CABLE FLY 1.5 BROWN	1
3720 25	RO(50M) CABLE 2,5 BLACK	1
3721 2 075	RO(50M) SPEAKER CABLE 2X0,75	1
3722 2 15	RO(25M) CABLE FLY BN/BK2X1.5FL	1
3729 8 1	CABLE DISP.F.8 ROL.NOT ASSEMB.	1



3729 8

Article No.	Article Description	QTY
3729 4	CABLE DISP.ASSEMBLED WITH 4RO.	1
3729 8	CALBE DISP.ASSEMBLES WITH 8RO.	1

VARO Dispenser Systems

Fuel Hose Dispenser System

- Robust roll holder made of sheet steel for individual storage of FÖRCH fuel hose rolls
- Including special cutter
- Front guidance avoids hose slipping back
- Suitable for all FÖRCH perforated panels and for the VARO racking system
- Colour: RAL 5003

Contents:

Article No.	Article Description	Quantity
1318 35 95	RD.PH SH.MET.SC.7981 GA3.5X9.5	1
1318 42 95	RD.PH SH.MET.SC.7981 GA4.2X9.5	3
3404 10 40	CHAIN FOR HOSE SCISSORS 40CM	1
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 5	DISPENSER W.WOOD AXLE 130MM	3
4760 9	COMBI-HOSE SHEARS 190MM	1
5980 990	SET FOR DISPENSER SYSTEM	1



Article No.	Article Description	QTY
3905 1	FUEL HOSE DISPENS.SYSTEM	1

Dispenser System for Fuel Hose / Abrasive Paper

- Solid roll holder made of sheet steel with enclosed wooden axle for individual mounting
- Suitable for all FÖRCH perforated panels and VARO racking systems
- Tear-off edge for abrasive paper
- Can be fitted optionally
- Colour: RAL 5003

Art. No. 3799 5:

- Suitable for fuel hoses, slipping paper, abrasive sheets, abrasive fleece

Art. No. 3799 6:

- Suitable for abrasive cloth
- AGR 5980: 40 mm width
- AGR 5981: 50 mm width
- AGR 5982: 60 mm width



Article No.	Article Description	QTY
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 5	DISPENSER W.WOOD AXLE 130MM	1
3799 6	DISPENSER F.DISC/SHEETS 65MM	1
3799 5 1	WOOD.AXLE FOR DISPENSER 140MM	1
3799 6 1	VARO-ROLL HOLDER SHAFT 74MM	1

Dispenser for Dry Abrasive Paper

Contents:

Article No.	Article Description	Quantity
1318 42 95	RD.PH SH.MET.SC.7981 GA4.2X9.5	3
1611 6 40	PAN-H.PZ3-SPS ZI 6X 40	4
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 5	DISPENSER W.WOOD AXLE 130MM	3
8000 8	NYLON-EXPANSION ANCHOR F 8	4

Article No.	Article Description	QTY
5925 1	VARO-DISPENSER FOR ABRASIVES	1



Dispenser 5-fold, Empty

Contents:

Article No.	Article Description	Quantity
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 5	DISPENSER W.WOOD AXLE 130MM	1
3799 6	DISPENSER F.DISC/SHEETS 65MM	4
5980 990	SET FOR DISPENSER SYSTEM	1

Article No.	Article Description	QTY
5980 5	FÖRCH - DISPENSER 5-FOLD EMPTY	1



Safety Cabinet Type 90 / 1200

- Overall construction tested and approved by recognised material-testing institution in accordance with DIN EN 14470-1 (Type 90)
- Fire resistance of > 90 minutes
- GS-tested safety (GS symbol)
- Insulation in accordance with DIN 4102
- Sheet-steel outer body, powder coating in RAL 7035 – light grey, doors RAL 1007 – daffodil yellow
- Inner body made from HPL coated plates – RAL 7035
- Stainless steel floor end rail
- Mesh shelves – 64 mm, height adjustable
- Automatic self-closing of the doors by thermal mechanics when fire occurs
 - Doors for temperature increase $\leq 50^\circ$
 - Supply and exhaust air ducts for temperature increase to 70°C ($\pm 10^\circ\text{C}$)
- Ventilation connection by DN 80 pipe sockets
- Operation according to TRGS 510 (also approved without exhaust air)
- Earthing connection in accordance with TRBS 2153 (avoidance of ignition sources)
- Labelling according to DIN EN 14470-1 / TRGS 510 / ISO 3864 / ASR A1.3
- Levelling feet to compensate for uneven flooring
- Doors can be locked by cylinder lock



Technical Data

Safety cabinet Type 90:

External dimensions (W x D x H): 1,190 x 598 x 1,935 mm

Internal dimensions (W x D x H): 1,087 x 430 x 1,700 mm

Weight: 505 kg

Swing doors: 2

Air vent Ø: 80 mm

Article No.	Article Description	QTY
9071 90 1200	SAFETY CABINET TYPE 90/1200	1
9071 90 1200 3	DRIVE BASE FOR CABINET 90S/S90	1
9071 90 1200 5	SHELF TYPE 90/1200	1

Hazardous Substance Filter Attachment, Basic

- For the technical ventilation of safety cabinet type 90 in accordance with DIN EN 14470-1
- Reacts to coarse particulate contamination such as dust and heavy pollution of the exhaust air with hydrocarbon vapours and gases
- Warnings displayed by LED when saturation occurs
- Cabinet exhaust air is cleaned of hydrocarbon vapours by integrated active carbon filters and returned to the room air
- Filter is constructed in a tandem design. If the main filter is saturated, the second integrated filter ensures additional safety over a time period of around 14 days.
- The use of a GFA eliminates the compliance with an explosive zone around the safety cabinet
- Exhaust air line to the outdoors and the associated installation work can be omitted
- No pollution of the room air thanks filtering of almost 100% of all solvent fumes
- Increased employee health protection
- Low servicing and maintenance costs

Note:

- To ensure that the filter system is operating correctly, the GFA should be inspected for correct function and serviced at least once a year by a qualified person.
- The tandem active carbon filter must be replaced as part of the inspection



Technical Data	
Housing:	Powder-coated sheet steel
Colour:	Light grey RAL 7035
Dimensions (W x D x H):	310 x 510 x 210 mm
Motor power:	0.03 kW
Rated voltage:	230 V
Frequency:	50 Hz
Current consumption:	0.2 A
Noise level:	
Empty weight:	13 kg
Volumetric flow:	25 m ³ /h

Article No.	Article Description	QTY
9071 90 1200 1	HAZ.SUBST.FILT.ATTACHM.BASIC	1

Adaptor For Safety Cabinet Type 90

Article No.	Article Description	QTY
9071 90 1200 2	ADAPTOR F.TYPE 30/90 CABINETS	1



Exhaust Air Fan for Safety Cabinet Type 90 / 1200

- Suitable for installation on the safety cabinet
- Simple connection of the fan (suction side) with aluminium flexi-hose Ø 80 mm

Note:

- Not suitable for floor exhaust units

Article No.	Article Description	QTY
9071 90 1200 4	EXHAUST AIR FAN MODEL 4	1

Delivery includes:

- 1x aluminium flexi-hose, Ø 80 mm
- 1x earthed socket with 2 m connection cable



Tool Cabinet with Swing Doors

- Neat steel sheet construction
- Body and doors with high-quality paint finish
- Swing doors with central door reinforcement mounted on pivot pins and three-point round handle lock with 2 keys
- 4 galvanised shelves, adjustable in 30 mm steps
- Load per shelf: 50 kg with load evenly distributed
- Cabinet body: light grey RAL 7035
- Cabinet door: light grey (RAL 7035), light blue (RAL 5012)

Dimension:

- (H x W x D): 1,950 x 940 x 400 mm

Article No.	Article Description	QTY
9409 150	TOOL CABINET GREY RAL 7035	1
9409 160	TOOLCABINET GREY/BLUE	1



9409 150



9409 160

FÖRCH Storage System

- Space saving storing for workshops, stocks, assembly of vehicles and service

Safety Case for 5 Sets

- Stackable
- Dimensions (W × H × D): 416 × 434 × 256 mm
- Centrally locking
- Every drawer is fitted with smooth-action telescopic runners and individual ant-tilt protector

Article No.	Article Description	QTY
9020 5	SAFETY CASE FOR 5 SETS	1



Safety Case with Carrying Handle for 3 Sets

- Without contents, stackable
- Suitable for mobile use
- Dimensions (W × H × D): 416 × 295 × 256 mm
- Centrally locking
- Every drawer is fitted with smooth-action telescopic runners and individual ant-tilt protector

Article No.	Article Description	QTY
9020 3	SAFE.CASE W.CARRY.HA.FOR 3SETS	1



Assortment Boxes, Standard Trays for Assortment Boxes

- Stable metal boxes, powder coated
- Dimensions (W x H x D): 340 x 50 x 240 mm
- With easy accessible and rounded plastic trays
- With manageable handles for the transport to the workplace
- 2 sideways arranged latches reliably prevent an unintentional opening of the cap

- Plastic trays without assortment box

Article No.	Article Description	QTY
9025 4	ASSORTMENT BOX F 4 EMPTY	1
9025 5	ASSORTMENT BOX F 5 EMPTY	1
9025 8	ASSORTMENT BOX F 8 EMPTY	1
9025 10	ASSORTMENT BOX F10 EMPTY	1
9025 11	ASSORTMENT BOX F11 EMPTY	1
9025 12	ASSORTMENT BOX F12 EMPTY	1
9025 14	ASSORTMENT BOX F14 EMPTY	1
9025 18	ASSORTMENT BOX F18 EMPTY	1
9025 20	ASSORTMENT BOX F20 EMPTY	1
9025 90	ASSORTMENT BOX WITHOUT TRAY	1

Article No.	Article Description	QTY
9026 4 1	TRAY 4-FOLD	1
9026 5	TRAY 5-FOLD	1
9026 8	TRAY 8-FOLD	1
9026 10	TRAY 10-FOLD	1
9026 11	TRAY 11-FOLD	1
9026 12	TRAY 12-FOLD	1
9026 14	TRAY 14-FOLD	1
9026 18	TRAY 18-FOLD	1
9026 20	TRAY 20-FOLD	1



Assortments

- Broad product range
- Space-saving and clearly laid out
- Handy carrying handles for transporting to the workplace
- The turn lock reliably prevents inadvertent opening of the cover
- Sturdy metal case, powder coated, with easy to access rounded plastic inserts



Sheet Metal Screws DIN 7981 C, GA, Assortment

• 2.9 × 9.5–4.8 × 25 = 1,700 pieces

Contents:

Article No.	Article Description	Quantity
1311 29 95	SELF-TAP.SCREW 7981 GA 2.9X9.5	100
1311 29 13	PH PANHD TAPSCR 7981GA 2.9X 13	100
1311 35 95	SELF-TAP.SCREW 7981 GA 3.5X9.5	100
1311 35 13	SELF-TAP.SCREW 7981 GA 3.5X 13	100
1311 35 16	SELF-TAP.SCREW 7981 GA 3.5X 16	100
1311 35 19	SELF-TAP.SCREW 7981 GA 3.5X 19	100
1311 39 13	SELF-TAP.SCREW 7981 GA 3.9X 13	100
1311 39 16	SELF-TAP.SCREW 7981 GA 3.9X 16	100
1311 39 19	OV.PH SH.MET.SCR.7981 GA3.9X19	100
1311 39 22	SELF-TAP.SCREW 7981 GA 3.9X 22	100
1311 42 13	SELF-TAP.SCREW 7981 GA 4.2X 13	100
1311 42 16	SELF-TAP.SCREW 7981 GA 4.2X 16	100
1311 42 19	SELF-TAP.SCREW 7981 GA 4.2X 19	100
1311 42 25	SELF-TAP.SCREW 7981 GA 4.2X 25	50
1311 48 13	OV.PH SH.MET.SCR.7981 GA4.8X13	100
1311 48 16	OV.PH SH.MET.SCR.7981 GA4.8X16	100
1311 48 19	OV.PH SH.MET.SCR.7981 GA4.8X19	100
1311 48 25	PH PANHD TAPSCR 7981GA 4.8X 25	50



Article No.	Article Description	QTY
9000 1311	ASS.PAN HD SELF TAP.SCR7981 ZN	1
9000R 1311	TRAY PAN HD S.TAPP.SCR.7981 ZN	1

Sheet Metal Screws DIN 7983, GA, Assortment

• 2.9 × 13 – 4.8 × 25 = 1,700 pieces

Contents:

Article No.	Article Description	Quantity
1331 29 13	PH RSD CSK TAP.7983 GA 2.9X13	100
1331 29 16	PH RSD CSK TAP.7983 GA 2.9X16	100
1331 35 13	PH RSD CSK TAP.7983 GA 3.5X13	100
1331 35 16	PH RSD CSK TAP.7983 GA 3.5X16	100
1331 35 19	PH RSD CSK TAP.7983 GA 3.5X19	100
1331 35 22	PH RSD CSK TAP.7983 GA 3.5X22	100
1331 39 13	OV.PH SH.MET.SCR.7983 GA3.9X13	100
1331 39 16	OV.PH SH.MET.SCR.7983 GA3.9X16	100
1331 39 19	OV.PH SH.MET.SCR.7983 GA3.9X19	100
1331 39 22	PH RSD CSK TAP.7983 GA 3.9X22	100
1331 42 13	OV.PH SH.MET.SCR.7983 GA4.2X13	100
1331 42 16	OV.PH SH.MET.SCR.7983 GA4.2X16	100
1331 42 19	OV.PH SH.MET.SCR.7983 GA4.2X19	100
1331 42 25	PH RSD CSK TAP.7983 GA 4.2X25	50
1331 48 13	OV.PH SH.MET.SCR.7983 GA4.8X13	100
1331 48 16	OV.PH SH.MET.SCR.7983 GA4.8X16	100
1331 48 19	OV.PH SH.MET.SCR.7983 GA4.8X19	100
1331 48 25	PH RSD CSK TAP.7983 GA 4.8X25	50



Article No.	Article Description	QTY
9000 1331	ASS.RAISED CSK SCREW 7983 ZINC	1
9000R 1331	TRAY RAISED CSK SCREW 7983 ZN	1

Sheet Metal Screws DIN 7981 / 7983, GA, Assortment

- 3.5 × 9.5 – 4.8 × 22 = 1,600 pieces

Contents:

Article No.	Article Description	Quantity
1311 35 95	SELF-TAP.SCREW 7981 GA 3.5X9.5	100
1311 35 13	SELF-TAP.SCREW 7981 GA 3.5X 13	100
1311 35 16	SELF-TAP.SCREW 7981 GA 3.5X 16	100
1311 35 19	SELF-TAP.SCREW 7981 GA 3.5X 19	100
1311 42 13	SELF-TAP.SCREW 7981 GA 4.2X 13	100
1311 42 16	SELF-TAP.SCREW 7981 GA 4.2X 16	100
1311 42 19	SELF-TAP.SCREW 7981 GA 4.2X 19	100
1311 42 22	SELF-TAP.SCREW 7981 GA 4.2X 22	50
1311 48 13	OV.PH SH.MET.SCR.7981 GA4.8X13	100
1311 48 16	OV.PH SH.MET.SCR.7981 GA4.8X16	100
1311 48 19	OV.PH SH.MET.SCR.7981 GA4.8X19	100
1311 48 22	OV.PH SH.MET.SCR.7981 GA4.8X22	50
1331 35 16	PH RSD CSK TAP.7983 GA 3.5X16	100
1331 35 19	PH RSD CSK TAP.7983 GA 3.5X19	100
1331 42 16	OV.PH SH.MET.SCR.7983 GA4.2X16	100
1331 42 22	OV.PH SH.MET.SCR.7983 GA4.2X22	50
1331 48 19	OV.PH SH.MET.SCR.7983 GA4.8X19	100
1331 48 22	OV.PH SH.MET.SCR.7983 GA4.8X22	50



Article No.	Article Description	QTY
9000 131	ASS.SH.MET.SCREWS 7981/7983 GA	1
9000R 131	TRAY SH.MET.SCREW.7981/7983 GA	1

Sheet Metal Screws DIN 7981, Black GA, Assortment

- According to ISO 7049
- 2.9 × 9.5 – 4.8 × 25 = 1,700 pieces

Contents:

Article No.	Article Description	Quantity
1313 29 95	PH PANHD TAPSCR 7981BGA2.9X9.5	100
1313 29 13	PH PANHD TAPSCR 7981BGA2.9X13	100
1313 35 95	PH PANHD TAPSCR 7981BGA3.5X9.5	100
1313 35 13	OV.PH SH.MET.SCR.7981BGA3.5X13	100
1313 35 16	PH PANHD TAPSCR 7981BGA3.5X16	100
1313 35 19	OV.PH SH.MET.SCR.7981BGA3.5X19	100
1313 39 13	OV.PH SH.MET.SCR.7981BGA3.9X13	100
1313 39 16	OV.PH SH.MET.SCR.7981BGA3.9X16	100
1313 39 19	OV.PH SH.MET.SCR.7981BGA3.9X19	100
1313 39 22	PH PANHD TAPSCR 7981BGA3.9X22	100
1313 42 13	OV.PH SH.MET.SCR.7981BGA4.2X13	100
1313 42 16	OV.PH SH.MET.SCR.7981BGA4.2X16	100
1313 42 19	OV.PH SH.MET.SCR.7981BGA4.2X19	100
1313 42 25	PH PANHD TAPSCR 7981BGA4.2X25	50
1313 48 13	OV.PH SH.MET.SCR.7981BGA4.8X13	100
1313 48 16	OV.PH SH.MET.SCR.7981BGA4.8X16	100
1313 48 19	OV.PH SH.MET.SCR.7981BGA4.8X19	100
1313 48 25	PH PANHD TAPSCR 7981BGA4.8X25	50



Article No.	Article Description	QTY
9000 1313	ASS TRIM S/T SCREW 7981 BGA	1
9000R 1313	TRAY TRIM S/T SCREW 7981 BGA	1

Sheet Metal Screws DIN 7983, Black GA, Assortment

- 2.9 × 13 – 4.8 × 25 = 1,700 pieces

Contents:

Article No.	Article Description	Quantity
1333 29 13	PH RSD CSK TAP.7983 BGA2.9X13	100
1333 29 16	PH RSD CSK TAP.7983 BGA2.9X16	100
1333 35 13	OV.PH SH.MET.SCR.7983BGA3.5X13	100
1333 35 16	PH RSD CSK TAP.7983 BGA3.5X16	100
1333 35 19	OV.PH SH.MET.SCR.7983BGA3.5X19	100
1333 35 22	PH RSD CSK TAP.7983 BGA3.5X22	100
1333 39 13	PH RSD CSK TAP.7983 BGA3.9X13	100
1333 39 16	OV.PH SH.MET.SCR.7983BGA3.9X16	100
1333 39 19	PH RSD CSK TAP.7983 BGA3.9X19	100
1333 39 22	OV.PH SH.MET.SCR.7983BGA3.9X22	100
1333 42 13	OV.PH SH.MET.SCR.7983BGA4.2X13	100
1333 42 16	OV.PH SH.MET.SCR.7983BGA4.2X16	100
1333 42 19	OV.PH SH.MET.SCR.7983BGA4.2X19	100
1333 42 25	PH RSD CSK TAP.7983 BGA4.2X25	50
1333 48 13	PH RSD CSK TAP.7983 BGA4.8X13	100
1333 48 16	PH RSD CSK TAP.7983 BGA4.8X16	100
1333 48 19	OV.PH SH.MET.SCR.7983BGA4.8X19	100
1333 48 25	PH RSD CSK TAP.7983 BGA4.8X25	50



Article No.	Article Description	QTY
9000 1333	ASS.SH.MET.SCREW DIN7983 BLACK	1
9000R 1333	TRAY SH.MET.SCRE.DIN7983 BLACK	1

Sheet Metal Screws DIN7981 / 7983, Black GA, Ass.

• 3.5 x 9.5 – 4.8 x 22 = 1,600 pieces

Contents:

Article No.	Article Description	Quantity
1313 35 95	PH PANHD TAPSCR 7981BGA3.5X9.5	100
1313 35 13	OV.PH SH.MET.SCR.7981BGA3.5X13	100
1313 35 16	PH PANHD TAPSCR 7981BGA3.5X16	100
1313 35 19	OV.PH SH.MET.SCR.7981BGA3.5X19	100
1313 42 13	OV.PH SH.MET.SCR.7981BGA4.2X13	100
1313 42 16	OV.PH SH.MET.SCR.7981BGAP4.2X16	100
1313 42 19	OV.PH SH.MET.SCR.7981BGA4.2X19	100
1313 42 22	OV.PH SH.MET.SCR.7981BGA4.2X22	50
1313 48 13	OV.PH SH.MET.SCR.7981BGA4.8X13	100
1313 48 16	OV.PH SH.MET.SCR.7981BGA4.8X16	100
1313 48 19	OV.PH SH.MET.SCR.7981BGA4.8X19	100
1313 48 22	OV.PH SH.MET.SCR.7981BGA4.8X22	50
1333 35 16	PH RSD CSK TAP.7983 BGA3.5X16	100
1333 35 19	OV.PH SH.MET.SCR.7983BGA3.5X19	100
1333 42 16	OV.PH SH.MET.SCR.7983BGA4.2X16	100
1333 42 22	PH RSD CSK TAP.7983 BGA4.2X22	50
1333 48 19	OV.PH SH.MET.SCR.7983BGA4.8X19	100
1333 48 22	PH RSD CSK TAP.7983 BGA4.8X22	50



Article No.	Article Description	QTY
9000 132	ASS.SH.M.SCREW 9781/7983 BGA	1
9000R 132	TRAY SH.M.SCREW 9781/7983 BGA	1

Sheet Metal Screws DIN 968, Black GA, Assortment

• 3.5x9.5 – 4.8x25 = 1,650 pieces

Contents:

Article No.	Article Description	Quantity
1318 35 95	RD.PH SH.MET.SC.7981 GA3.5X9.5	100
1318 35 13	RD.PH SH.MET.SCR.7981 GA3.5X13	100
1318 35 16	RD.PH SH.MET.SCR.7981 GA3.5X16	100
1318 35 19	RD.PH SH.MET.SCR.7981 GA3.5X19	100
1318 39 13	RD.PH SH.MET.SCR.7981 GA3.9X13	100
1318 39 16	RD.PH SH.MET.SCR.7981 GA3.9X16	100
1318 39 19	RD.PH SH.MET.SCR.7981 GA3.9X19	100
1318 39 22	RD.PH SH.MET.SCR.7981 GA3.9X22	50
1318 42 95	RD.PH SH.MET.SC.7981 GA4.2X9.5	100
1318 42 13	RD.PH SH.MET.SCR.7981 GA4.2X13	100
1318 42 16	RD.PH SH.MET.SCR.7981 GA4.2X16	100
1318 42 19	RD.PH SH.MET.SCR.7981 GA4.2X19	100
1318 42 22	RD.PH SH.MET.SCR.7981 GA4.2X22	100
1318 42 25	RD.PH SH.MET.SCR.7981 GA4.2X25	50
1318 48 13	RD.PH SH.MET.SCR.7981 GA4.8X13	100
1318 48 16	RD.PH SH.MET.SCR.7981 GA4.8X16	100
1318 48 19	RD.PH SH.MET.SCR.7981 GA4.8X19	100
1318 48 25	RD.PH SH.MET.SCR.7981 GA4.8X25	50



Article No.	Article Description	QTY
9000 1318	ASS TRIM S/T SCREW 7981 BGA	1
9000R 1318	TRAY TRIM S/T SCREW 7981 BGA	1

Self Tapping Screws with Drill Tip, Assortment

• 4.2 x 13 – 4.8 x 32 = 1,000 pieces

Contents:

Article No.	Article Description	Quantity
1319 42 13	DIN 968CT PAN HEAD BZP 4.2X13	100
1319 42 16	DIN 968CT PAN HEAD BZP 4.2X16	100
1319 42 19	DIN 968CT PAN HEAD BZP 4.2X19	100
1319 42 25	DIN 968CT PAN HEAD BZP 4.2X25	100
1319 42 32	DIN 968CT PAN HEAD BZP 4.2X32	100
1319 48 13	DIN 968CT PAN HEAD BZP 4.8X13	100
1319 48 16	DIN 968CT PAN HEAD BZP 4.8X16	100
1319 48 19	DIN 968CT PAN HEAD BZP 4.8X19	100
1319 48 22	DIN 968CT PAN HEAD BZP 4.8X22	100
1319 48 32	DIN 968CT PAN HEAD BZP 4.8X32	100



Article No.	Article Description	QTY
9000 1319	ASSORT.TAPP.SCREWS W.DRILL TIP	1
9000R 1319	INLAY SELF TAPP.SCR W.DR.TIP	1

Self-drilling Screws DIN 7504 K, Assortment

• 4.2×13–6.3×32 = 1,000 pieces

Contents:

Article No.	Article Description	Quantity
1350 42 13	HEX SD SCR. 7504K ZP 4.2X13	100
1350 42 16	HEX SD SCR. 7504K ZP 4.2X16	100
1350 42 19	HEX SD SCR. 7504K ZP 4.2X19	100
1350 48 16	HEX SD SCR. 7504K ZP 4.8X16	100
1350 48 19	HEX SD SCR. 7504K ZP 4.8X19	100
1350 48 25	HEX SD SCR. 7504K ZP 4.8X25	100
1350 55 19	HEX SD SCR. 7504K ZP 5.5X19	100
1350 55 25	HEX SD SCR. 7504K ZP 5.5X25	100
1350 55 32	HEX SD SCR. 7504K ZP 5.5X32	50
1350 63 19	HEX SD SCR. 7504K ZP 6.3X19	50
1350 63 25	HEX SD SCR. 7504K ZP 6.3X25	50
1350 63 32	HEX SD SCR. 7504K ZP 6.3X32	50
9801 24	VPK-SORTIMENT345X262X73 NR.24	1

Article No.	Article Description	QTY
9000 1350	ASS:SELF-DRILL.SCR.7504 K GAL.	1
9000R 1350	INTR.SELF-DRILL.SCR.7504K GAL.	1



Self-Tapping Screws DIN 7504 N (M), GA Assortment

• 3.5 × 9.5 – 4.8 × 19 = 1,200 pieces

Contents:

Article No.	Article Description	Quantity
1351 35 95	PAN HD SD SCR. 7504M GA3.5X9.5	100
1351 35 16	PAN HD SD SCR. 7504M GA 3.5X16	100
1351 35 19	PAN HD SD SCR. 7504M GA 3.5X19	100
1351 39 13	PAN HD SD SCR. 7504M GA 3.9X13	100
1351 39 16	PAN HD SD SCR. 7504M GA 3.9X16	100
1351 39 19	PAN HD SD SCR. 7504M GA 3.9X19	100
1351 42 13	PAN HD SD SCR. 7504M GA 4.2X13	100
1351 42 16	PAN HD SD SCR. 7504M GA 4.2X16	100
1351 42 19	PAN HD SD SCR. 7504M GA 4.2X19	100
1351 42 25	PAN HD SD SCR. 7504M GA 4.2X25	100
1351 48 16	PAN HD SD SCR. 7504M GA 4.8X16	100
1351 48 19	PAN HD SD SCR. 7504M GA 4.8X19	100

Article No.	Article Description	QTY
9000 1351	ASS.PH SELF-TAPP.SCR.7504 M GA	1
9000R 1351	TRAY PH SELF-TAP.SCR.7504 M GA	1



Self-drilling Screws DIN 7504 P, Assortment

• 3.5 × 13 – 4.8 × 32 = 1,200 pieces

Contents:

Article No.	Article Description	Quantity
1352 35 13	PH CSK SD SCR.7504-O ZP 3.5X13	100
1352 35 16	PH CSK SD SCR.7504-O ZP 3.5X16	100
1352 35 19	PH CSK SD SCR.7504-O ZP 3.5X19	100
1352 39 13	PH CSK SD SCR.7504-O ZP 3.9X13	100
1352 39 16	PH CSK SD SCR.7504-O ZP 3.9X16	100
1352 39 19	PH CSK SD SCR.7504-O ZP 3.9X19	100
1352 42 16	PH CSK SD SCR.7504-O ZP 4.2X16	100
1352 42 19	PH CSK SD SCR.7504-O ZP 4.2X19	100
1352 42 25	PH CSK SD SCR.7504-O ZP 4.2X25	100
1352 48 19	PH CSK SD SCR.7504-O ZP 4.8X19	100
1352 48 25	PH CSK SD SCR.7504-O ZP 4.8X25	100
1352 48 32	PH CSK SD SCR.7504-O ZP 4.8X32	100

Article No.	Article Description	QTY
9000 1352	ASS.SELF-DRILL.SCR.7504P GALV.	1
9000R 1352	INT.SELF-DRILL.SCR.7504P GALV.	1



Sheet Metal Screw with Washer, Zinc-Coated, Ass.

• 4.2 × 13 – 6.5 × 20 = 450 pieces

Contents:

Article No.	Article Description	Quantity
1302 42 13	COM.HD TAPP.SCR.WASH ZN 4.2X13	50
1302 48 16	COM.SH.MET.SCR.W.WASH.ZN4.8X16	50
1302 48 19	COM.SH.MET.SCR.W.WASH.ZN4.8X19	50
1302 56 16	COM.SH.MET.SCR.W.WASH.ZN5.6X16	50
1302 63 16	COM.HD TAP.SC.WASH ZN6.3X16-22	50
1302 65 16	COM.SH.MET.SCR.W.WASH.ZN6.5X16	50
1302 65 20	COM.SH.MET.SCR.W.WASH.ZN6.5X20	150

Article No.	Article Description	QTY
9000 1302	ASS.HEX HD SH.MET.SCR.W.CAPWA	1
9000R 1302	TRAY HEX HD SH.MET.SC.W.CAP.WA	1



Abrasive Belts, Assortment

• P 50, P 80, P 150 = 48 pieces

Contents:

Article No.	Article Description	Quantity
5960 15 50	ABRASIVE BAND D15MM B30MM P50	5
5960 15 80	ABRASIVE BAND D15MM B30MM P80	5
5960 15 150	ABRASIVE BAND D15MM B30MM P150	5
5960 22 50	ABRASIVE BAND D22MM B20MM P50	5
5960 22 80	ABRASIVE BAND D22MM B20MM P80	5
5960 22 150	ABRASIVE BAND D22MM B20MM P150	5
5960 30 50	ABRASIVE BAND D30MM B30MM P50	5
5960 30 80	ABRASIVE BAND D30MM B30MM P80	5
5960 30 150	ABRASIVE BAND D30MM B30MM P150	5
5961 15	ABRASIVE BAND ARBOR D15MM	1
5961 22	ABRASIVE BAND ARBOR D22MM	1
5961 30	ABRASIVE BAND ARBOR D30MM	1

Article No.	Article Description	QTY
9000 5960	ASSORTMENT ABRASIVE BELTS	1
9000R 5960	INTRAY ABRASIVE BELTS	1



Abrasive Caps, Assortment

• P 80, P 150, P 320 = 48 pieces

Contents:

Article No.	Article Description	Quantity
5963 16 80	GRINDING CAPS CYL D16MM P 80	5
5963 16 150	GRINDING CAPS CYL D16MM P150	5
5963 16 320	GRINDING CAPS CYL D16MM P320	5
5964 16	GRIND.CAP ARBOR CYLINDRI.D16MM	1
5965 16 80	GRINDING CAPS DOMED D16MM P80	5
5965 16 150	GRINDING CAPS DOMED D16MM P150	5
5965 16 320	GRINDING CAPS DOMED D16MM P320	5
5966 16	GRINDING CAP ARBOR DOMED D16MM	1
5967 16 80	GRIND.CAPS CONICAL D16MM P80	5
5967 16 150	GRIND.CAPS CONICAL D16MM P150	5
5967 16 320	GRIND.CAPS CONICAL D16MM P320	5
5968 16	GRIND.CAP ARBOR CONICAL D16MM	1

Article No.	Article Description	QTY
9000 596	ASSORTMENT ABRASIVE CAPS	1
9000R 596	INTRAY ABRASIVE CAPS	1



Retaining Rings DIN 6799, Assortment

• Ø 2.3 – Ø 19.0 = 920 pieces

Contents:

Article No.	Article Description	Quantity
2530 23	RET WASHER F. SHAFTS 6799 2.3	100
2530 32	RET WASHER F. SHAFTS 6799 3.2	100
2530 4	RET WASHER F. SHAFTS 6799 4	100
2530 5	RET WASHER F. SHAFTS 6799 5	100
2530 6	RET WASHER F. SHAFTS 6799 6	100
2530 7	RET WASHER F. SHAFTS 6799 7	100
2530 8	RET WASHER F. SHAFTS 6799 8	100
2530 9	RET WASHER F. SHAFTS 6799 9	50
2530 10	RET WASHER F. SHAFTS 6799 10	100
2530 12	RET WASHER F. SHAFTS 6799 12	50
2530 15	RET WASHER F. SHAFTS 6799 15	10
2530 19	RET WASHER F. SHAFTS 6799 19	10



Article No.	Article Description	QTY
9000 2530	ASSORTM.RETAINING RINGS 6799	1
9000R 2530	TRAY RETAINING RINGS 6799	1

Retaining Rings for Shanks, DIN 471, Assortment

• Ø 8 – 40 = 715 pieces

Contents:

Article No.	Article Description	Quantity
2541 8	RET RING F. SHAFT 471 A 8	100
2541 10	RET RING F. SHAFT 471 A 10	100
2541 12	RET RING F. SHAFT 471 A 12	100
2541 14	RET RING F. SHAFT 471 A 14	50
2541 15	RET RING F. SHAFT 471 A 15	50
2541 16	RET RING F. SHAFT 471 A 16	50
2541 17	RET RING F. SHAFT 471 A 17	25
2541 18	RET RING F. SHAFT 471 A 18	25
2541 20	RET RING F. SHAFT 471 A 20	25
2541 22	RET RING F. SHAFT 471 A 22	25
2541 24	RET RING F. SHAFT 471 A 24	25
2541 25	RET RING F. SHAFT 471 A 25	25
2541 26	RET RING F. SHAFT 471 A 26	25
2541 28	RET RING F. SHAFT 471 A 28	20
2541 30	RET RING F. SHAFT 471 A 30	20
2541 32	RET RING F. SHAFT 471 A 32	20
2541 35	RET RING F. SHAFT 471 A 35	20
2541 40	RET RING F. SHAFT 471 A 40	10



Article No.	Article Description	QTY
9000 2541	ASSORTMENT LOCK RINGS DIN 471A	1
9000R 2541	TRAY LOCK RINGS DIN 471 A	1

Retaining Rings for Bores, DIN 472, Assortment

• Ø 15 – 42 = 480 pieces

Contents:

Article No.	Article Description	Quantity
2542 15	RET RING F. SHAFT 472 I 15	50
2542 16	RET RING F. SHAFT 472 I 16	50
2542 18	RET RING F. SHAFT 472 I 18	50
2542 20	RET RING F. SHAFT 472 I 20	50
2542 22	RET RING F. SHAFT 472 I 22	25
2542 23	RET RING F. SHAFT 472 I 23	25
2542 24	RET RING F. SHAFT 472 I 24	25
2542 25	RET RING F. SHAFT 472 I 25	25
2542 26	RET RING F. SHAFT 472 I 26	25
2542 28	RET RING F. SHAFT 472 I 28	25
2542 30	RET RING F. SHAFT 472 I 30	25
2542 32	RET RING F. SHAFT 472 I 32	25
2542 34	RET RING F. SHAFT 472 I 34	20
2542 35	RET RING F. SHAFT 472 I 35	20
2542 36	RET RING F. SHAFT 472 I 36	10
2542 38	RET RING F. SHAFT 472 I 38	10
2542 40	RET RING F. SHAFT 472 I 40	10
2542 42	RET RING F. SHAFT 472 I 42	10



Article No.	Article Description	QTY
9000 2542	ASSORTMENT LOCK RINGS 472 I	1
9000R 2542	TRAY LOCK RINGS 472 I	1

Compression Springs DIN 2095, GA, Assortment

• 8 × 42 – 15 × 65 = 250 pieces

Contents:

Article No.	Article Description	Quantity
2922 8 42	COMPRESSION SPRING GA 0.8 8X42	40
2922 10 32	COMPRESSION SPRING GA 1 10X32	20
2922 10 40	COMPRESSION SPRING GA 1 10X40	25
2922 10 45	COMPR. SPRING GA 1.5 10X45	25
2922 12 35	COMPRESSION SPRING GA 1 12X35	30
2922 12 55	COMPR. SPRING GA 1.5 12X55	15
2922 12 60	COMPRESSION SPRING GA 1 12X60	20
2922 12 35 15	COMPR. SPRING GA 1.5 12X35	20
2922 15 28	COMPR. SPRING GA 1.5 15X28	20
2922 15 45	COMPR. SPRING GA 1.5 15X45	15
2922 15 55	COMPR. SPRING GA 1.5 15X55	10
2922 15 65	COMPR. SPRING GA 1.5 15X65	10

Article No.	Article Description	QTY
9000 2922	ASS.COMPRESSION SPRINGS 2095	1
9000R 2922	TRAY COMPRESSION SPRINGS 2095	1



Tension Springs DIN 2097, GA, Assortment

• 5 × 50 – 12,5 × 110 = 185 pieces

Contents:

Article No.	Article Description	Quantity
2920 5 50	EXTENSION SPRING GA 0.6 5X50	15
2920 6 25	EXTENSION SPRING GA 0.6 6X25	20
2920 7 25	EXTENSION SPRING GA 1.3 7X25	15
2920 7 55	EXTENSION SPRING GA 0.6 7X55	10
2920 7 90	EXTENSION SPRING GA 1 7X90	10
2920 8 55	EXTENSION SPRING GA 1 8X55	10
2920 8 70	EXTENSION SPRING GA 1 8X70	10
2920 9 45	EXTENSION SPRING GA 1 9X45	5
2920 9 75	EXTENSION SPRING GA 1 9X75	5
2920 9 100	EXTENSION SPRING GA 1 9X100	10
2920 10 60	EXTENSION SPRING GA 1 10X60	15
2920 10 105	EXTENSION SPRING GA 1 10X105	5
2920 11 55	EXTENSION SPRING GA 1 11X55	5
2920 11 55 13	EXTENSION SPRING GA 1.3 11X55	10
2920 11 70	EXTENSION SPRING GA 1 11X70	10
2920 11 130	EXTENSION SPRING GA 1 11X130	5
2920 12 65	EXTENSION SPRING GA 1.5 12X65	5
2920 12 85	EXTENSION SPRING GA 1 12X85	5
2920 125 75	EXTENS. SPRING GA 1.5 12.5X75	10
2920 125 110	EXTENS. SPRING GA 1.5 12.5X110	5

Article No.	Article Description	QTY
9000 2920	ASS.TENSION SPRINGS 2097	1
9000R 2920	TRAY TENSION SPRINGS 2097	1



Cotter Pins DIN 94, GA, Assortment

• 1 × 20 – 6 × 63 = 1,325 pieces

Contents:

Article No.	Article Description	Quantity
2801 1 20	SPLIT PIN 94 GA 1X20	200
2801 16 32	SPLIT PIN 94 GA 1.6X32	200
2801 2 32	SPLIT PIN 94 GA 2X32	200
2801 25 32	SPLIT PIN 94 GA 2.5X32	100
2801 25 40	SPLIT PIN 94 GA 2.5X40	100
2801 32 32	SPLIT PIN 94 GA 3.2X32	100
2801 32 50	SPLIT PIN 94 GA 3.2X50	100
2801 35 40	SPLIT PIN 94 GA 3.5X40	100
2801 4 40	SPLIT PIN 94 GA 4X40	100
2801 4 63	SPLIT PIN 94 GA 4X63	50
2801 5 50	SPLIT PIN 94 GA 5X50	50
2801 63 63	SPLIT PIN 94 GA 6.3X63	25

Article No.	Article Description	QTY
9000 2801	ASSORTMENT COTTER PINS 94 GA	1
9000R 2801	TRAY COTTER PINS 94 GALVANIZED	1



Shims, Ø 10–20 mm, Plain Steel, Assortment

- 360 pieces
- Plain steel

Contents:

Article No.	Article Description	Quantity
2340 10 16 03	POSITION. WASHER 988 10X16X0.3	20
2340 10 16 05	POSITION. WASHER 988 10X16X0.5	20
2340 10 16 1	POSITION. WASHER 988 10X16X1	20
2340 12 18 03	POSITION. WASHER 988 12X18X0.3	20
2340 12 18 05	POSITION. WASHER 988 12X18X0.5	20
2340 12 18 1	POSITION. WASHER 988 12X18X1	20
2340 14 20 03	POSITION. WASHER 988 14X20X0.3	20
2340 14 20 05	POSITION. WASHER 988 14X20X0.5	20
2340 14 20 1	POSITION. WASHER 988 14X20X1	20
2340 16 22 03	POSITION. WASHER 988 16X22X0.3	20
2340 16 22 05	POSITION. WASHER 988 16X22X0.5	20
2340 16 22 1	POSITION. WASHER 988 16X22X1	20
2340 18 25 03	POSITION. WASHER 988 18X25X0.3	20
2340 18 25 05	POSITION. WASHER 988 18X25X0.5	20
2340 18 25 1	POSITION. WASHER 988 18X25X1	20
2340 20 28 03	POSITION. WASHER 988 20X28X0.3	20
2340 20 28 05	POSITION. WASHER 988 20X28X0.5	20
2340 20 28 1	POSITION. WASHER 988 20X28X1	20



Article No.	Article Description	QTY
9000 2340	ASS.SHIMS 10-20MM	1
9000R 2340	TRAY SHIMS 10-20MM	1

Shims, Ø 22–32 mm, Plain Steel, Assortment

- 270 pieces
- Plain steel

Contents:

Article No.	Article Description	Quantity
2340 22 32 03	POSITION. WASHER 988 22X32X0.3	15
2340 22 32 05	POSITION. WASHER 988 22X32X0.5	15
2340 22 32 1	POSITION. WASHER 988 22X32X1	15
2340 25 35 03	POSITION. WASHER 988 25X35X0.3	15
2340 25 35 05	POSITION. WASHER 988 25X35X0.5	15
2340 25 35 1	POSITION. WASHER 988 25X35X1	15
2340 26 37 03	POSITION. WASHER 988 26X37X0.3	15
2340 26 37 05	POSITION. WASHER 988 26X37X0.5	15
2340 26 37 1	POSITION. WASHER 988 26X37X1	15
2340 28 40 03	POSITION. WASHER 988 28X40X0.3	15
2340 28 40 05	POSITION. WASHER 988 28X40X0.5	15
2340 28 40 1	POSITION. WASHER 988 28X40X1	15
2340 30 42 03	POSITION. WASHER 988 30X42X0.3	15
2340 30 42 05	POSITION. WASHER 988 30X42X0.5	15
2340 30 42 1	POSITION. WASHER 988 30X42X1	15
2340 32 45 03	POSITION. WASHER 988 32X45X0.3	15
2340 32 45 05	POSITION. WASHER 988 32X45X0.5	15
2340 32 45 1	POSITION. WASHER 988 32X45X1	15



Article No.	Article Description	QTY
9000 2340 1	ASS.SHIMS 22-32MM	1
9000R 2340 1	TRAY SHIMS 22-32MM	1

Shims, Ø 34–40 mm, Plain Steel, Assortment

- 180 pieces
- Plain steel

Contents:

Article No.	Article Description	Quantity
2340 35 45 03	POSITION. WASHER 988 35X45X0.3	15
2340 35 45 05	POSITION. WASHER 988 35X45X0.5	15
2340 35 45 1	POSITION. WASHER 988 35X45X1	15
2340 37 47 03	POSITION. WASHER 988 37X47X0.3	15
2340 37 47 05	POSITION. WASHER 988 37X47X0.5	15
2340 37 47 1	POSITION. WASHER 988 37X47X1	15
2340 40 50 03	POSITION. WASHER 988 40X50X0.3	15
2340 40 50 05	POSITION. WASHER 988 40X50X0.5	15
2340 40 50 1	POSITION. WASHER 988 40X50X1	15
2340 42 52 03	POSITION. WASHER 988 42X52X0.3	15
2340 42 52 05	POSITION. WASHER 988 42X52X0.5	15
2340 42 52 1	POSITION. WASHER 988 42X52X1	15

Article No.	Article Description	QTY
9000 2340 2	ASS.SHIMS 34-40MM	1
9000R 2340 2	TRAY SHIMS 34-40MM	1



Spring Type Straight Pins DIN 1481, Assortment

• 3 x 30 – 10 x 60 = 655 pieces

Contents:

Article No.	Article Description	Quantity
2860 3 30	STRAIGHT PINS 1481 3X30	50
2860 3 40	STRAIGHT PINS 1481 3X40	50
2860 4 20	STRAIGHT PINS 1481 4X20	50
2860 4 30	STRAIGHT PINS 1481 4X30	50
2860 4 40	STRAIGHT PINS 1481 4X40	50
2860 4 50	STRAIGHT PINS 1481 4X50	50
2860 5 30	STRAIGHT PINS 1481 5X30	50
2860 5 40	STRAIGHT PINS 1481 5X40	50
2860 5 50	STRAIGHT PINS 1481 5X50	25
2860 6 30	STRAIGHT PINS 1481 6X30	50
2860 6 40	STRAIGHT PINS 1481 6X40	50
2860 6 50	STRAIGHT PINS 1481 6X50	25
2860 6 60	STRAIGHT PINS 1481 6X60	25
2860 8 40	STRAIGHT PINS 1481 8X40	25
2860 8 50	STRAIGHT PINS 1481 8X50	25
2860 8 60	STRAIGHT PINS 1481 8X60	10
2860 10 50	STRAIGHT PINS 1481 10X50	10
2860 10 60	STRAIGHT PINS 1481 10X60	10



Article No.	Article Description	QTY
9000 2860	ASS.SPRTYPE STRAI.PIN 1481	1
9000R 2860	INT.SPRTYPE STR.PIN 1481	1

Lubricating Nipples DIN 71412 H1, H2, H3, Assortm.

• 150 pieces

Contents:

Article No.	Article Description	Quantity
2901 6 1	NIPPLE HEAD H1 M 6X1	10
2901 8 1	NIPPLE HEAD H1 M 8X1	20
2901 10 1	NIPPLE HEAD H1 M 10X1	10
2902 6 1	NIPPLE HEAD H2 M 6X1	10
2902 8 1	NIPPLE HEAD H2 M 8X1	20
2902 10 1	NIPPLE HEAD H2 M 10X1	10
2903 6 1	NIPPLE HEAD H3 M 6X1	10
2903 8 1	NIPPLE HEAD H3 M 8X1	20
2903 10 1	NIPPLE HEAD H3 M 10X1	10
2908 6	NIPPLE HEAD IMPACT H1 A 6	10
2908 8	NIPPLE HEAD IMPACT H1 A 8	10
2908 10	NIPPLE HEAD IMPACT H1 A 10	10



Article No.	Article Description	QTY
9000 290	ASS.LUBRICATING NIPPLES 71412	1
9000R 290	TRAY LUBRICAT.NIPPLES 71412	1

Internal / External Star Washer DIN 6798, GA, Ass.

• M4 – M12 = 1,100 pieces

Contents

Article No.	Article Description	Quantity
2351 4	SERRATED WASHER IT 6798 GA 4	100
2351 5	SERRATED WASHER IT 6798 GA 5	100
2351 6	SERRATED WASHER IT 6798 GA 6	100
2351 8	SERRATED WASHER IT 6798 GA 8	100
2351 10	SERRATED WASHER IT 6798 GA 10	100
2351 12	SERRATED WASHER IT 6798 GA 12	50
2352 4	SERRATED WASHER ET 6798 GA 4	100
2352 5	SERRATED WASHER ET 6798 GA 5	100
2352 6	SERRATED WASHER ET 6798 GA 6	100
2352 8	SERRATED WASHER ET 6798 GA 8	100
2352 10	SERRATED WASHER ET 6798 GA 10	100
2352 12	SERRATED WASHER ET 6798 GA 12	50



Article No.	Article Description	QTY
9000 235	ASS.INT./EXT.STAR WASHER 6798	1
9000R 235	INTRAY INT./EXT.STAR WASH.6798	1

Spring Washers DIN 137 A/B, Galvanized, Assortment

• For thread M3–M12 = 2,050 pieces

Contents:

Article No.	Article Description	Quantity
2321 3	SPRING WASHER137 A GA 3	200
2321 4	SPRING WASHER137 A GA 4	200
2321 5	SPRING WASHER137 A GA 5	200
2321 6	SPRING WASHER137 A GA 6	200
2321 8	SPRING WASHER137 A GA 8	200
2321 10	SPRING WASHER137 A GA 10	100
2322 4	SPRING WASHER137 B GA 4	200
2322 5	SPRING WASHER137 B GA 5	200
2322 6	SPRING WASHER137 B GA 6	200
2322 8	SPRING WASHER137 B GA 8	200
2322 10	SPRING WASHER137 B GA 10	100
2322 12	SPRING WASHER137 B GA 12	50



Article No.	Article Description	QTY
9000 232	ASS.WAVE WASHERS 137 A/B GA	1
9000R 232	TRAY WAVE WASHER 137 A/B GA	1

Brake Nipples in Assortment

• 60 pieces

Contents:

Article No.	Article Description	Quantity
3126 1	BRAKE NIP.A M10X1 SW11X16.7MM	5
3126 2	BRAKE NIP.D M10X1 SW10X16.7MM	5
3126 3	BRA.NI.H 3/8X24UNF SW14X17.5MM	5
3126 4	BRA.NI.M M10X1.25 SW10X14.2MM	5
3126 5	BRA.NI.S 3/8X24UNF SW10X18.0MM	5
3126 6	BRA.NI.TX M10X1 SW10X18.0MM	5
3126 7	BRA.NI.B 5.0 M12X1 SW12X20.0MM	5
3126 8	BRA.NI.OAA M10X1 SW14X24.0MM	5
3126 9	BRA.NI.B M12X1 SW12X18.0MM	5
3126 10	BRA.NI.E M10X1 SW14X13.0MM	5
3126 11	BRA.NI.F 3/8X24UNF SW11X21.0MM	5
3126 12	BRA.NI.OBB M12X1 SW17X29.0MM	5



Article No.	Article Description	QTY
9000 3126	ASSORTMENT BRAKE NIPPLES	1
9000R 3126	INTRAY BRAKE NIPPLES	1

Bleeder Valves in Assortment

• 130 pieces

Contents:

Article No.	Article Description	Quantity
3127 1	BLEEDER VALVE M6X1 SW 7X38.0MM	5
3127 2	BLEED.VALVE M8X1.25 SW9X32.4MM	5
3127 3	BLEED.VALVE M10X1 SW10X34.0MM	5
3127 4	BLEED.VALVE M10X1 SW10X36.0MM	5
3127 5	BLEEDER VALVE M6X1 SW 7X29.0MM	5
3127 6	BLEED.VALVE M10X1 SW11X30.0MM	5
3127 7	BLEED.VALVE M7X1 SW7X26.2MM	5
3127 8	BLEED.VALVE M7X1 SW7X28.7MM	5
3127 9	BLEED.VALVE M7X1 SW7X38.3MM	5
3127 10	BLEED.VALVE M8X1 SW9X33.5MM	5
3127 11	DUST CAP	50
3127 12	BLEED.VALVE M8X1.25 SW9X41.5MM	5
3127 13	BLEED.VALVE M8X1.25 SW9X35.5MM	5
3127 14	BLEED.VALVE M7X1 SW 7X30.5MM	5
3127 15	BLEED.VALVE M7X1 SW 9X33.0MM	5
3127 16	BLEED.VALVE M8X1 SW 8X32.0MM	5
3127 17	BLEED.VALVE M8X1.25 SW8X24.5MM	5



Article No.	Article Description	QTY
9000 3127	ASSORTMENT BLEEDER VALVES	1
9000R 3127	INTRAY BLEEDER VALVES	1

Twist Drills DIN 338 HSS, Roll Forged Type N, Ass.

• Ø 1.0 – 10.5 mm (increments of 0.5 mm) = 135 pieces

Contents:

Article No.	Article Description	Quantity
5500 10	TWIST DRILL 338 ROLL F. 1.0	10
5500 15	TWIST DRILL 338 ROLL F. 1.5	10
5500 20	TWIST DRILL 338 ROLL F. 2.0	10
5500 25	TWIST DRILL 338 ROLL F. 2.5	10
5500 30	TWIST DRILL 338 ROLL F. 3.0	10
5500 35	TWIST DRILL 338 ROLL F. 3.5	10
5500 40	TWIST DRILL 338 ROLL F. 4.0	10
5500 45	TWIST DRILL 338 ROLL F. 4.5	10
5500 50	TWIST DRILL 338 ROLL F. 5.0	10
5500 55	TWIST DRILL 338 ROLL F. 5.5	5
5500 60	TWIST DRILL 338 ROLL F. 6.0	10
5500 65	TWIST DRILL 338 ROLL F. 6.5	5
5500 70	TWIST DRILL 338 ROLL F. 7.0	5
5500 75	TWIST DRILL 338 ROLL F. 7.5	5
5500 80	TWIST DRILL 338 ROLL F. 8.0	5
5500 85	TWIST DRILL 338 ROLL F. 8.5	2
5500 90	TWIST DRILL 338 ROLL F. 9.0	2
5500 95	TWIST DRILL 338 ROLL F. 9.5	2
5500 100	TWIST DRILL 338 ROLL F. 10.0	2
5500 105	TWIST DRILL 338 ROLL F. 10.5	2



Article No.	Article Description	QTY
9000 5500	ASS.TWIST DRILLS338 ROLL FORG.	1
9000R 5500	TRAY.TWIST DRILL338 ROLL FORG.	1

Twist Drill DIN 338 HSS, Polished Type N, Assortm.

- Content: 155 pieces
- Ø 1.0 - 10.5 mm
- 0.5 mm increase

Contents:

Article No.	Article Description	Quantity
5501 10	TWIST DRILL 338 GROUND 1.0	10
5501 15	TWIST DRILL 338 GROUND 1.5	10
5501 20	TWIST DRILL 338 GROUND 2.0	10
5501 25	TWIST DRILL 338 GROUND 2.5	10
5501 30	TWIST DRILL 338 GROUND 3.0	10
5501 35	TWIST DRILL 338 GROUND 3.5	10
5501 40	TWIST DRILL 338 GROUND 4.0	10
5501 45	TWIST DRILL 338 GROUND 4.5	10
5501 50	TWIST DRILL 338 GROUND 5.0	10
5501 55	TWIST DRILL 338 GROUND 5.5	10
5501 60	TWIST DRILL 338 GROUND 6.0	10
5501 65	TWIST DRILL 338 GROUND 6.5	5
5501 70	TWIST DRILL 338 GROUND 7.0	5
5501 75	TWIST DRILL 338 GROUND 7.5	5
5501 80	TWIST DRILL 338 GROUND 8.0	5
5501 85	TWIST DRILL 338 GROUND 8.5	5
5501 90	TWIST DRILL 338 GROUND 9.0	5
5501 95	TWIST DRILL 338 GROUND 9.5	5
5501 100	TWIST DRILL 338 GROUND 10.0	5
5501 105	TWIST DRILL 338 GROUND 10.5	5



Article No.	Article Description	QTY
9000 5501	ASSORT.TWIST DRILLS 338 POLISH	1
9000R 5501	TRAY.TWIST DRILL338 POLISHED	1

Twist Drill HSS-E, MULTI-INOX, Assortment **FORCH*******

- Contents: 62 pieces
- Placement: Ø 1.0 – 6 mm = 4 pieces
- Placement: Ø 6.5 – 10.5 mm = 2 pieces
- 0.5 mm increase

Contents:

Article No.	Article Description	Quantity
5506 5 10	TWIST DRILL 338 MULTI-INOX 1.0	4
5506 5 15	TWIST DRILL 338 MULTI-INOX 1.5	4
5506 5 20	TWIST DRILL 338 MULTI-INOX 2.0	4
5506 5 25	TWIST DRILL 338 MULTI-INOX 2.5	4
5506 5 30	TWIST DRILL 338 MULTI-INOX 3.0	4
5506 5 35	TWIST DRILL 338 MULTI-INOX 3.5	4
5506 5 40	TWIST DRILL 338 MULTI-INOX 4.0	4
5506 5 45	TWIST DRILL 338 MULTI-INOX 4.5	4
5506 5 50	TWIST DRILL 338 MULTI-INOX 5.0	4
5506 5 55	TWIST DRILL 338 MULTI-INOX 5.5	4
5506 5 60	TWIST DRILL 338 MULTI-INOX 6.0	4
5506 5 65	TWIST DRILL 338 MULTI-INOX 6.5	2
5506 5 70	TWIST DRILL 338 MULTI-INOX 7.0	2
5506 5 75	TWIST DRILL 338 MULTI-INOX 7.5	2
5506 5 80	TWIST DRILL 338 MULTI-INOX 8.0	2
5506 5 85	TWIST DRILL 338 MULTI-INOX 8.5	2
5506 5 90	TWIST DRILL 338 MULTI-INOX 9.0	2
5506 5 95	TWIST DRILL 338 MULTI-INOX 9.5	2
5506 5 100	TWIST DRILL 338 MULTI-INOX 10.0	2
5506 5 105	TWIST DR. 338 MULTI-INOX 10.5	2



Article No.	Article Description	QTY
9000 5506 5	ASSORT.TW.DR.338 MULTI INOX 5*	1
9000R 5506 5	TRAY.TW.DRILL338 MULTI-INOX 5*	1

Twist Drill HSS-E, STEAM, Assortment **FORCH*******

- Contents: 62 pieces
- Placement: Ø 1.0 – 6 mm = 4 pieces
- Placement: Ø 6.5 – 10.5 mm = 2 pieces
- 0.5 mm increase

Contents:

Article No.	Article Description	Quantity
5566 5 10	TW.DR.338 HSS-E STEAM 1.0 5*	4
5566 5 15	TW.DR.338 HSS-E STEAM 1.5 5*	4
5566 5 20	TW.DR.338 HSS-E STEAM 2.0 5*	4
5566 5 25	TW.DR.338 HSS-E STEAM 2.5 5*	4
5566 5 30	TW.DR.338 HSS-E STEAM 3.0 5*	4
5566 5 35	TW.DR.338 HSS-E STEAM 3.5 5*	4
5566 5 40	TW.DR.338 HSS-E STEAM 4.0 5*	4
5566 5 45	TW.DR.338 HSS-E STEAM 4.5 5*	4
5566 5 50	TW.DR.338 HSS-E STEAM 5.0 5*	4
5566 5 55	TW.DR.388 HSS-E STEAM 5.5 5*	4
5566 5 60	TW.DR.388 HSS-E STEAM 6.0 5*	4
5566 5 65	TW.DR.338 HSS-E STEAM 6.5 5*	2
5566 5 70	TW.DR.338 HSS-E STEAM 7.0 5*	2
5566 5 75	TW.DR.338 HSS-E STEAM 7.5 5*	2
5566 5 80	TW.DR.338 HSS-E STEAM 8.0 5*	2
5566 5 85	TW.DR.338 HSS-E STEAM 8.5 5*	2
5566 5 90	TW.DR.338 HSS-E STEAM 9.0 5*	2
5566 5 95	TW.DR.338 HSS-E STEAM 9.5 5*	2
5566 5 100	TW.DR.338 HSS-E STEAM 10.0 5*	2
5566 5 105	TW.DR.338 HSS-E STEAM 10.5 5*	2



Article No.	Article Description	QTY
9000 5566 5	ASSORT.TW.DR.338 HSSE STEAM 5*	1
9000R 5566 5	TRAY.TW.DRILL338 HSSE STEAM 5*	1

Twist Drill HSS-E, Multi TT, Assortment **FÖRCH*******

- Contents: 62 pieces
- Placement: Ø 1.0 – 6 mm = 4 pieces
- Placement: Ø 6.5 – 10.5 mm = 2 pieces
- 0.5 mm increase

Contents:

Article No.	Article Description	Quantity
5567 5 10	TW.DR.338HSS-E,MULTI-TT 1.0 5*	4
5567 5 15	TW.DR.338HSS-E,MULTI-TT 1.5 5*	4
5567 5 20	TW.DR.338HSS-E,MULTI-TT 2.0 5*	4
5567 5 25	TW.DR.338HSS-E,MULTI-TT 2.5 5*	4
5567 5 30	TW.DR.338HSS-E,MULTI-TT 3.0 5*	4
5567 5 35	TW.DR.338HSS-E,MULTI-TT 3.5 5*	4
5567 5 40	TW.DR.338HSS-E,MULTI-TT 4.0 5*	4
5567 5 45	TW.DR.338HSS-E,MULTI-TT 4.5 5*	4
5567 5 50	TW.DR.338HSS-E,MULTI-TT 5.0 5*	4
5567 5 55	TW.DR.338HSS-E,MULTI-TT 5.5 5*	4
5567 5 60	TW.DR.338HSS-E,MULTI-TT 6.0 5*	4
5567 5 65	TW.DR.338HSS-E,MULTI-TT 6.5 5*	2
5567 5 70	TW.DR.338HSS-E,MULTI-TT 7.0 5*	2
5567 5 75	TW.DR.338HSS-E,MULTI-TT 7.5 5*	2
5567 5 80	TW.DR.338HSS-E,MULTI-TT 8.0 5*	2
5567 5 85	TW.DR.338HSS-E,MULTI-TT 8.5 5*	2
5567 5 90	TW.DR.338HSS-E,MULTI-TT 9.0 5*	2
5567 5 95	TW.DR.338HSS-E,MULTI-TT 9.5 5*	2
5567 5 100	TW.DR.338HSSE,MULTI-TT 10.0 5*	2
5567 5 105	TW.DR.338HSSE,MULTI-TT 10.5 5*	2



Article No.	Article Description	QTY
9000 5567 5	ASSORT.TW.DR.338 MULTI TT 5*	1
9000R 5567 5	TRAY.TW.DRILL HSSE MULTI TT 5*	1

Top Plate And Hooking-In System

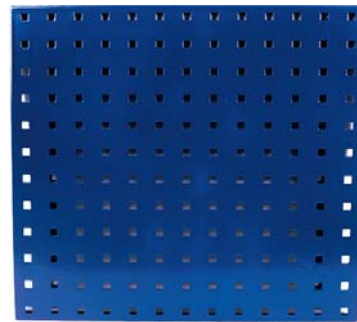
- For fixing of winding systems, hooks, tools or similar.



Single Perforated Panels

- Colour: Blue
- Boring 10 × 10 mm quadratic

Article No.	Article Description	QTY
9101 4550	PERFORATED PANEL 450X500MM	1
9101 45100	PERFORATED PANEL 450X1000MM	1
9101 45150	PERFORATED PANEL 450X1500MM	1
9101 45200	PERFORATED PANEL 450X2000MM	1



Single Hook for Perforated Panels

- 45° angled
- Wire Ø: 5 mm
- Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 150	HOOK 45° ANGL.50MM F.PERF.PAN.	1
9101 1100	HOOK45° ANGL.100MM F.PERF.PAN.	1
9101 1150	HOOK45° ANGL.150MM F.PERF.PAN.	1
9101 1200	HOOK45° ANGL.200MM F.PERF.PAN.	1



Double Hook for Perforated Panels

- 45° angled
- Wire Ø: 5 mm
- Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 235	HOOK DOUBLE35X35MM F.PERF.PAN.	1
9101 250	HOOK DOUBLE50X35MM F.PERF.PAN.	1
9101 275	HOOK DOUBLE75X35MM F.PERF.PAN.	1
9101 2150	HOOK DOUBLE150X35MM F.PERF.PA.	1



(Length × fastener distance)

Hook for Perforated Panels

- Wire Ø: 5 mm
Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 335	HOOK90° ANGLED35MM F.PERF.PAN.	1
9101 375	HOOK90° ANGLED75MM F.PERF.PAN.	1
9101 3125	HOOK90° ANGL.125MM F.PERF.PAN.	1



Hook for Perforated Panels

- Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 46	HOOK CLIP 6MM	1
9101 410	HOOK CLIP 10MM	1
9101 413	HOOK CLIP 13MM	1
9101 416	HOOK CLIP 16MM	1
9101 419	HOOK CLIP 19MM	1



Hose / Tube Holder for Perforated Panels

- Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 660	HOSE/TUBE HOLDER 60MM	1
9101 6100	HOSE/TUBE HOLDER 100MM	1



Pliers Holder for Perforated Panels

- Plastic screw M4 × 6
Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 735	PLIERS HOLDER 20X35MM	1
9101 755	PLIERS HOLDER 20X55MM	1
9101 775	PLIERS HOLDER 20X75MM	1

(length × width)



Angular Hook

- Plastic screw M4 x 6
- Alternatively metal screw Art. No. 1201 4 6
- Length: 40 mm

Article No.	Article Description	QTY
9101 840	ANGULAR HOOK 40MM	1



Machine Holder

- Plastic screw M4 x 6
- Alternatively metal screw Art. No. 1201 4 6
- Angles: 40°, 60°, 80°

Article No.	Article Description	QTY
9101 940	MACHINE HOLDER 40°	1
9101 960	MACHINE HOLDER 60°	1
9101 980	MACHINE HOLDER 80°	1



Key Holder for 8 Keys

- Plastic screw M4 x 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 8	KEY HOLDER 8-FOLD	1



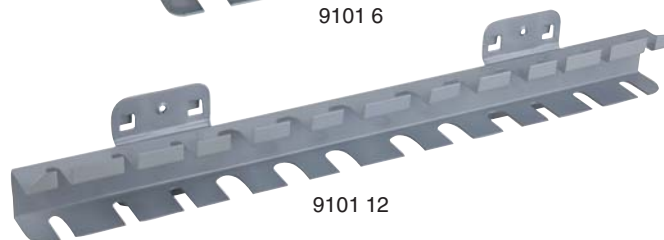
Screw Driver Holder

- Plastic screw M4 x 6
- Alternatively metal screw Art. No. 1201 4 6
- For 6 or 12 screw drivers

Article No.	Article Description	QTY
9101 6	SCREW DRIVER HOLDER 6-FOLD	1
9101 12	SCREW DRIVER HOLDER 12-FOLD	1



9101 6

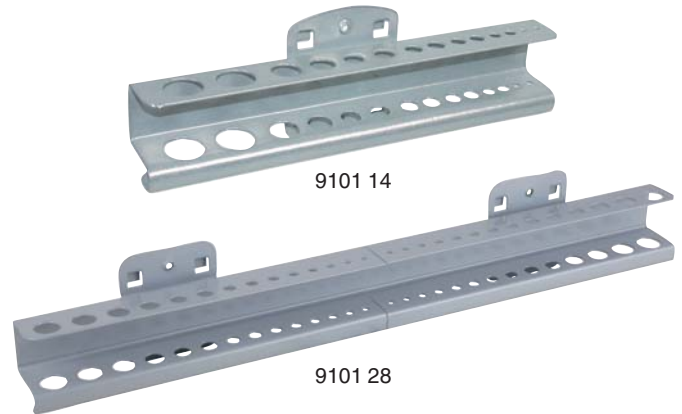


9101 12

Drill Bit Holder

- Plastic screw M4 × 6
 - Alternatively metal screw Art. No. 1201 4 6
- Art. No. 9101 14:**
- Drill intake Ø mm each 1x: 3.4 / 3.8 / 4.2 / 4.8 / 5.2 / 5.8 / 6.2 / 6.8 / 8.2 / 8.8 / 9.8 / 11.2 / 12.2 / 13.2
- Art. No. 9101 28:**
- Drill intake Ø mm each 2x: 3.4 / 3.8 / 4.2 / 4.8 / 5.2 / 5.8 / 6.2 / 6.8 / 8.2 / 8.8 / 9.8 / 11.2 / 12.2 / 13.2

Article No.	Article Description	QTY
9101 14	DRILL BIT HOLDER 14-FOLD	1
9101 28	DRILL BIT HOLDER 28-FOLD	1



Tray

- Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 13	TRAY 350X125MM	1



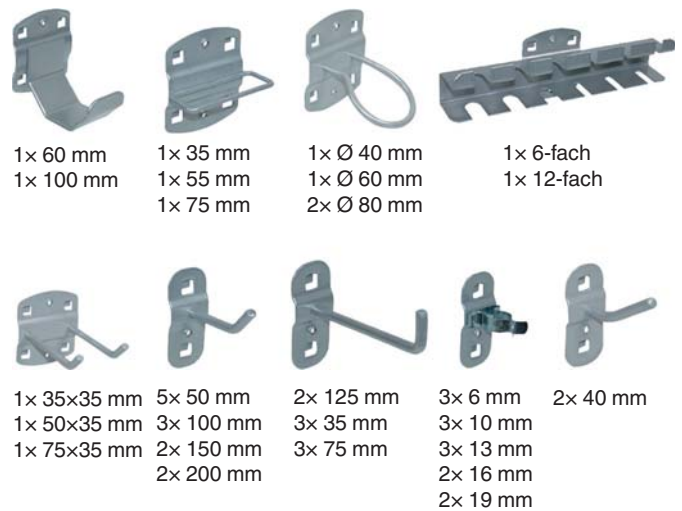
Hook Assortment

- **49-piece hook assortment**
- For use on perforated panels in workshops and warehouses
- Helps keep everything organised and stores tools safely within easy reach
- 5 – 10 mm
- Plastic screw M4 × 6
- Alternative metal screw Art. No. 1201 4 6

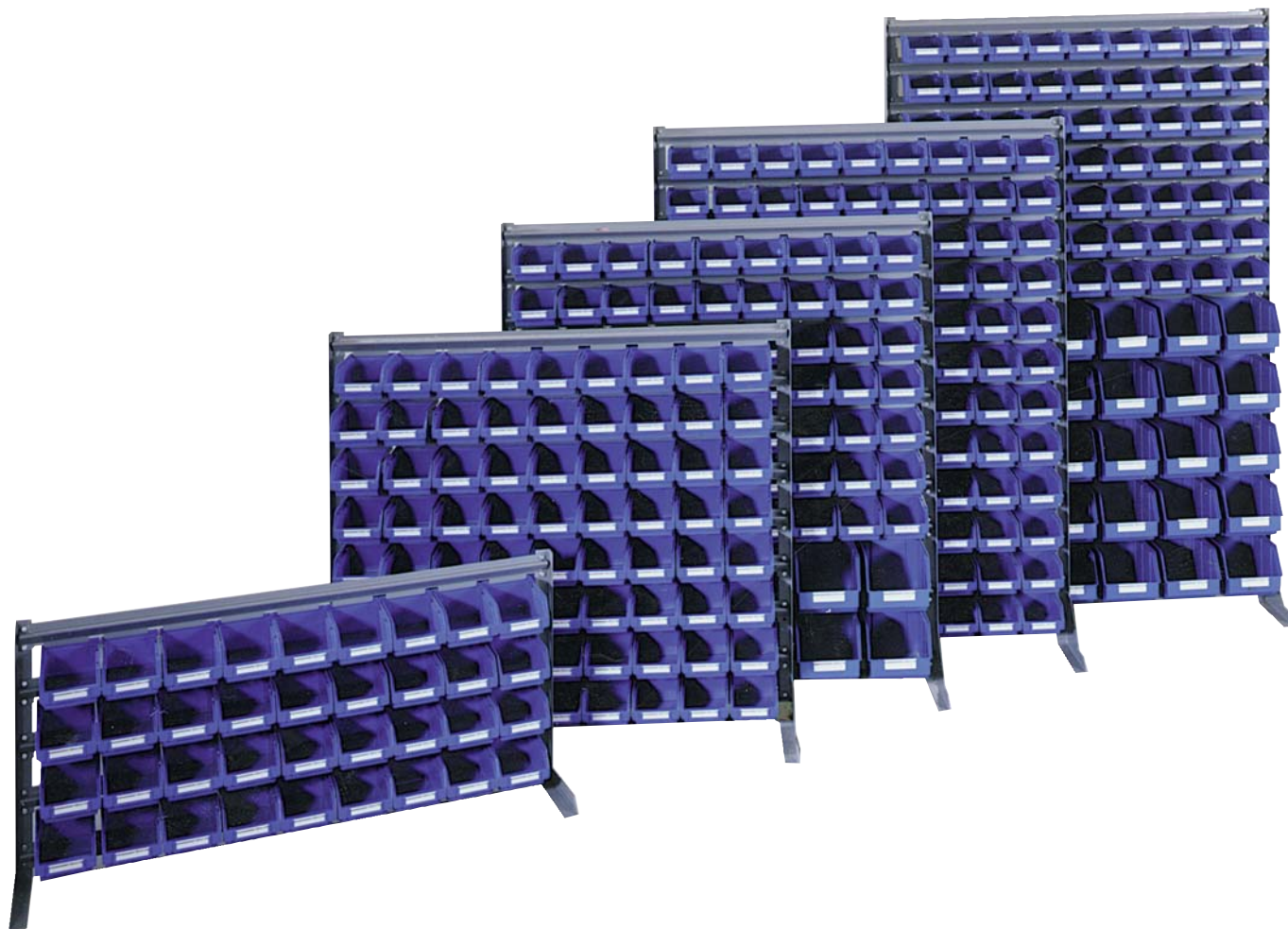
Article No.	Article Description	QTY
9101 49	VARO-ASSORTMENT HOOKS 49PCS	1

Contents:

- 1x Art. No. 9101 6 60, 9101 6 100, 9101 7 35, 9101 7 55, 9101 7 75, 9101 9 40, 9101 9 60, 9101 6, 9101 12, 9101 2 35, 9101 2 50, 9101 2 75
- 2x Art. No. 9101 9 80, 9101 1 150, 9101 1 200, 9101 3 125, 9101 4 13, 9101 4 19, 9101 8 40
- 3x Art. No. 9101 1 100, 9101 3 35, 9101 3 75, 9101 4 6, 9101 4 10, 9101 4 13
- 5x Art. No. 9101 1 50



Storing Racks



- Racks without boxes can be assembled at buyer's option with boxes of different colours

Article No.	Article Description	QTY
9050 36	RACK WITH BLUE BOXES 36	1
9050 72	RACK WITH BLUE BOXES 72	1
9050 108	RACK WITH BLUE BOXES 108	1
9050 63 12	RACK WITH BLUE BOXES 63/12	1
9050 63 30	RACK WITH BLUE BOXES 63/30	1
9060 36	RACK WITHOUT BOXES 36	1
9060 72	RACK WITHOUT BOXES 72	1
9060 108	RACK WITHOUT BOXES 108	1
9060 63 12	RACK WITHOUT BOXES 63/12	1
9060 63 30	RACK WITHOUT BOXES 63/30	1

Technical Data			
Art. No.	Size W x H mm	For box size	Number of boxes
9050 36	1,020 x 480	2	36
9050 72	1,020 x 900	2	72
9050 108	1,020 x 1.320	2	108
9050 63 12	1,020 x 1.100	2/3	63/12
9050 63 30	1,020 x 1.580	2/3	63/30
9060 36	1,020 x 480	2	36
9060 72	1,020 x 900	2	72
9060 108	1,020 x 1.320	2	108
9060 63 12	1,020 x 1,100	2/3	63/12
9060 63 30	1,020 x 1,580	2/3	63/30

(with and accordingly for number of boxes)

Assembly Bar

- Made of zinc-coated sheet steel
- Without boxes



Article No.	Article Description	QTY
9061 1 9	ASSEMBLY BAR F.BOXES SI.1/9 ST	1
9061 2 9	ASSEMBLY BAR F.BOXES SI.2/9 ST	1
9061 3 6	ASSEMBLY BAR F.BOXES SI.3/6 ST	1
9061 4 4	ASSEMBLY BAR F.BOXES SI.4/4 ST	1

Technical Data			
Art. No.	Size L x H mm	for Size of boxes	Number of boxes
9061 19	980 x 65	1	9
9061 29	980 x 95	2	9
9061 36	980 x 144	3	6
9061 44	980 x 166	4	4

(Box size/Number of boxes)

Storage Boxes Size 1

- Made of shock-resistant polystyrene
- Stackable
- Dimensions (L x W x H): 85 / 65 x 100 x 50 mm

Article No.	Article Description	QTY
9055 1	VARO STORAGE BOX BLUE SIZE 1	e 92
9055 2	VARO STORAGE BOX RED SIZE 1	e 30
9055 3	VARO STORAGE BOX GREEN SIZE 1	1
9055 4	VARO STORAGE BOX YELLOW SIZE 1	e 30
9055 5	VARO STORAGE BOX GREY SIZE 1	e 92



Storage Boxes Size 2

- Made of shock-resistant polystyrene
- Stackable
- Dimensions (L x W x H): 160 / 140 x 100 x 75 mm

Article No.	Article Description	QTY
9056 1	VARO STORAGE BOX BLUE SIZE 2	e 72
9056 2	VARO STORAGE BOX RED SIZE 2	e 72
9056 3	VARO STORAGE BOX GREEN SIZE 2	e 72
9056 4	VARO STORAGE BOX YELLOW SIZE 2	e 72
9056 5	VARO STORAGE BOX GREY SIZE 2	e 72



Storage Boxes Size 3

- Made of shock-resistant polystyrene
- Stackable
- Dimensions (L x W x H): 230 / 200 x 145 x 125 mm

Article No.	Article Description	QTY
9057 1	VARO STORAGE BOX GR.3 BLUE	e 30
9057 2	VARO STORAGE BOX RED SIZE 3	e 30
9057 3	VARO STORAGE BOX GREEN SIZE 3	e 30
9057 4	VARO STORAGE BOX YELLOW SIZE 3	e 30
9057 5	VARO STORAGE BOX GREY SIZE 3	e 30



Storage Boxes Size 4

- Made of shock-resistant polystyrene
- Stackable
- Dimensions (L x W x H): 335 / 300 x 200 x 150 mm

Article No.	Article Description	QTY
9058 1	VARO STORAGE BOX BLUE SIZE 4	e 12
9058 2	VARO STORAGE BOX RED SIZE 4	e 12
9058 3	VARO STORAGE BOX GREEN SIZE 4	e 12
9058 4	VARO STORAGE BOX YELLOW SIZE 4	e 12
9058 5	VARO STORAGE BOX GREY SIZE 4	e 12



Storage Boxes Size 5

- Made of shock-resistant polystyrene
- Stackable
- Dimensions (L x W x H): 490 / 425 x 310 x 180 mm

Article No.	Article Description	QTY
9059 1	VARO STORAGE BOX BLUE SIZE 5	e 8
9059 2	VARO STORAGE BOX RED SIZE 5	e 8
9059 3	VARO STORAGE BOX GREEN SIZE 5	e 8
9059 4	VARO STORAGE BOX YELLOW SIZE 5	e 8
9059 5	VARO STORAGE BOX GREY SIZE 5	e 8



Storage Boxes Blue 186 mm

- Separation wall width: 186 mm
- Colour: blue
- Art. No. 9054 300 186:**
- Dimensions (L x W x H): 300 x 186 x 83 mm
- Art. No. 9054 400 186:**
- Dimensions (L x W x H): 400 x 186 x 83 mm

Article No.	Article Description	QTY
9054 300 186	STORAGE BOX RK 300/186 BLUE	e 8
9054 400 186	SHELF-BOX RK 400/186 BLUE	e 8
9054 186	DIVIDING WALL RK/T 186	e 25



Storage Boxes Blue 93 mm

- Separation wall width: 93 mm
- Colour: blue
- Art. No. 9054 300 93:**
- Dimensions (L x W x H): 300 x 93 x 90 mm
- Art. No. 9054 400 93:**
- Dimensions (L x W x H): 400 x 93 x 90 mm

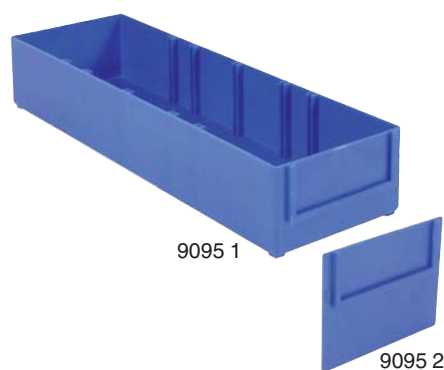
Article No.	Article Description	QTY
9054 300 93	STORAGE BOX RK 300/93 BLUE	e 16
9054 400 93	SHELF-BOX RK 400/93 BLUE	e 16
9054 93	DIVIDING WALL RK/T 93	e 25



Storage Box Size D Blue

- Dimensions (L x W x H): 270 x 87 x 55 mm
- Separation wall width: 87 mm
- Colour: blue

Article No.	Article Description	QTY
9095 1	STORAGE BOX SI.D BLUE	1
9095 2	PARTITION WALL SI.DT BLUE	e 50



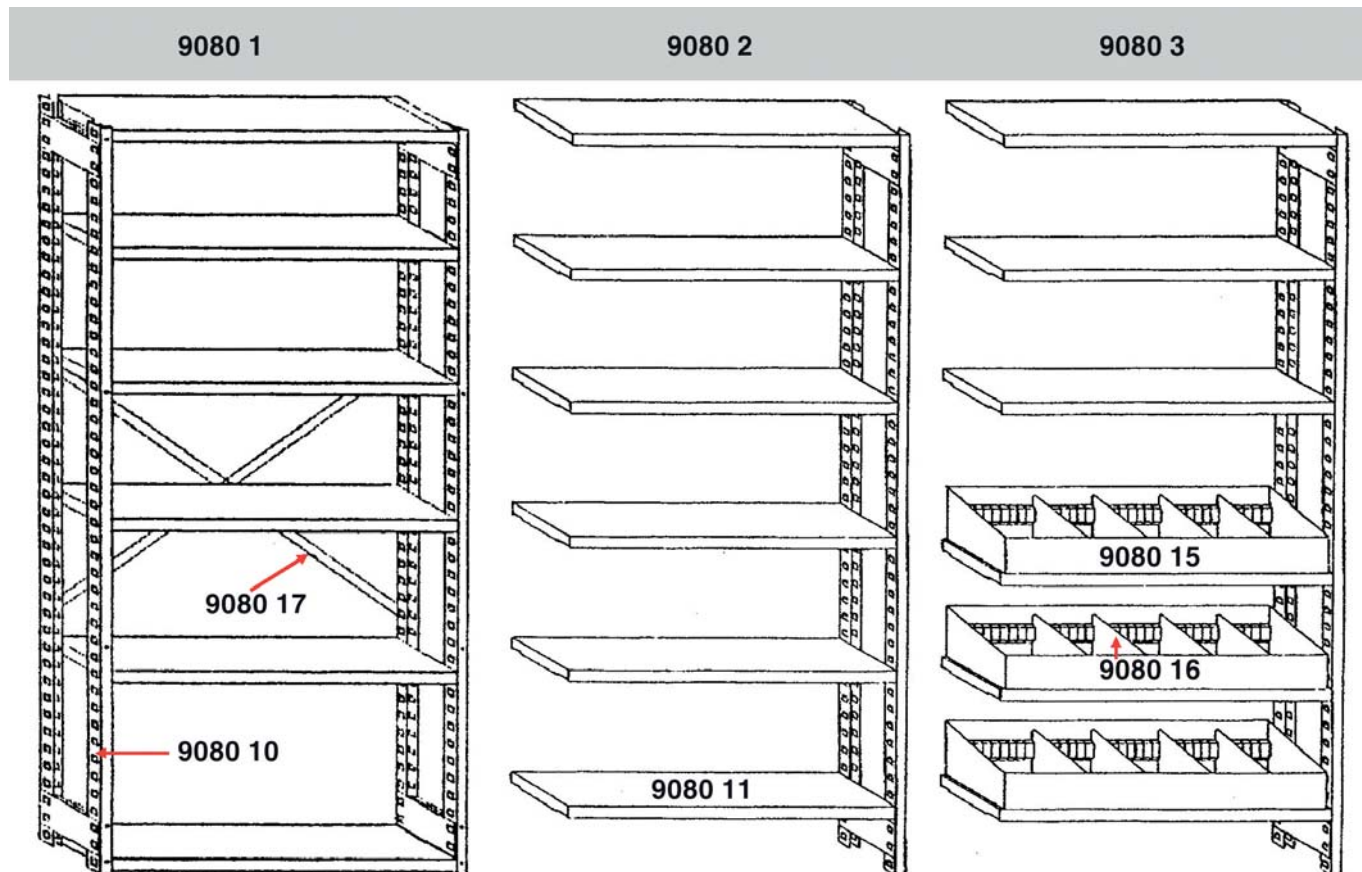
Drawer Box Grey

- Dimensions (L x W x H): 321 x 105 x 45 mm
- Colour: grey

Article No.	Article Description	QTY
9100 20	DRAWER BOX GREY	1



System Racks



- Blue painted frame, zinc-plated shelf
 - We recommend a diagonal composition after every third add-on shelf
 - Load capacity per shelf: 100 kg substrate-distributed
- Art. No. 9080 1:**
- Consists of:
2x rack frames, 1x diagonal composition, 6x shelves

- Art. No. 9080 2:**
- Consists of:
1x rack frame, 6x shelves

- Art. No. 9080 3:**
- Consists of:
1x rack frame, 3x shelves, 3x trays for bulk material, 12x partition walls

Article No.	Article Description	QTY
9080 1	BASIC RACK 2200-300 TYPE A	1
9080 2	EXTENSION RACK 2200-300 TYPE B	1
9080 3	EXTENSION RACK 2200-300 TYPE C	1
9080 10	RACK FRAME 2200X300 MM	1
9080 11	LOWER SHELF 970X300 MM	1
9080 15	STORAGE TRAY 970X300MM	1
9080 16	PARTITION WALL 300X120/75MM	1
9080 17	DIAGONAL ASSEMBLY 970MM	1

Technical Data	
Art. No.	Dimensions H x W x D mm
9080 1	2,200 x 990 x 300
9080 2	2,200 x 990 x 300
9080 3	2,200 x 990 x 300
9080 10	2,200 x 300
9080 11	970 x 300
9080 15	970 x 300
9080 16	300 x 120/75
9080 17	1,280

VARO Rack 3 Towers Equipped

- Consists of 3 equipped VARO racks
- Rack consists of 12,521 parts:
 - screws, nuts, washers, spring washers, blind rivets, clamps, sealing rings, split pins, workshop chemical products, cable ties, heat shrink tubings, fuses
- Can be extended easily with VARO rack and storage system
- Dimensions (H x W x D): 2.160 x 2.352 x 400 mm

Article No.	Article Description	QTY
9100P 900	VARO-RACK 3 TOWERS EQUIPPED	1

Contents:

- AGR 1011: Hex head screws DIN 933 8.8, zinc-plated
 - 100x: M5 x 16/M5 x 20/M6 x 16/M6 x 20/M6 x 30/M6 x 40/M6 x 50/M8 x 16/M8 x 20/M8 x 25/M8 x 30/M8 x 40/M8 x 50/M8 x 70/M10 x 20/M10 x 25/M10 x 30/M10 x 40/M10 x 50/M10 x 70/M12 x 25/M12 x 30/M12 x 40/M12 x 50/M14 x 30
 - 50x: M16 x 30
- AGR 2001: Hex nuts DIN 934-8, zinc-plated
 - 100x: M5/M6/M8/M10
 - 50x: M12/M14/M16
- AGR 2101: Hex stop nuts DIN 985-8, zinc-plated
 - 100x: M5/M6/M8/M10
 - 50x: M12/M12 x 1.5/M14/M14 x 1.5/M16/M16 x 1.5
- AGR 2301: Washers DIN 125 Form A, zinc-plated
 - 100x: for M5/M6/M8/M10/M12/M14/M16
- AGR 2331: Body washers, zinc-plated
 - 100x: for M5 x 15/M6 x 20/M8 x 25/M10 x 30/M12 x 30
- AGR 2501: Spring lock washers DIN 127, zinc-plated
 - 300x: for M5/M6
 - 100x: for M8/M10/M12/M14/M16
- AGR 2710: Blind rivets with flat head AL/ST
 - 100x: 4 x 10/4 x 12/5 x 12/5 x 16/5 x 20
- AGR 3200: Hose clamps W2 TORRO
 - 50x: SW6 8 – 12/SW6 10 – 16/SW7 12 – 22/SW7 16 – 27/SW7 20 – 32/SW7 25 – 40
 - 25x: SW7 32 – 50/SW7 40 – 60/SW7 50 – 70/SW7 60 – 80
- Art. No. 3750B 35 145: Cable ties in box
 - 350x Art. No. 3750 35 145: Cable ties black 3.5 x 145 mm
- Art. No. 3750B 47 195: Cable ties in box
 - 250x Art. No. 3750 47 195: Cable ties black 4.7 x 195 mm
- Art. No. 3750B 47 285: Cable ties in box
 - 200x Art. No. 3750 47 285: Cable ties black 4.7 x 285 mm
- 2x Art. No. 6100 0182: Cockpit Care P300, 300 ml
- 2x Art. No. 6100 1600: Intensive Windscreen Clean R530, 400 ml
- 2x Art. No. 6100 1660: Active Plus 5 Foam Cleaner R560, 600 ml
- 15x Art. No. 6110 0914: Brake Cleaner Premium R510, 600 ml
- 1x Art. No. 6160 0152: Screenwash Anti-freeze R537, 5 l
- 2x Art. No. 6200 0505: Rust Stop Primer Premium Dark Red L239, 400 ml
- 2x Art. No. 6200 2505: Quick Drying Primer Light Grey L238, 400 ml
- 2x Art. No. 6210 2500: Paint Black Mat L213, 400 ml
- 2x Art. No. 6210 2502: Paint Black High Gloss L215, 400 ml
- 2x Art. No. 6500 5580: Heavy Duty PTFE Grease S404, 500 ml
- 2x Art. No. 6520 5575: High Performance PTFE Oil S408, 500 ml
- 2x Art. No. 6530 1500: Silicone Spray S420, 500 ml
- 2x Art. No. 6610 6001: Stone Guard Black L260, 500 ml
- 2x Art. No. 6700 0048: Black Magic S411, 400 ml
- 1x Art. No. 6760 7500: Brake Fluid DOT 4, 5 l
- Art. No. 9000R 1318: Self-tapping screws PH flat head sim. to DIN 7981, black in tray, contents: 1,650 pieces
 - 100x AGR 1318: 3.5 x 9.5/3.5 x 13/3.5 x 16/3.5 x 19/3.9 x 13/3.9 x 16/3.9 x 19/4.2 x 9.5/4.2 x 13/4.2 x 16/4.2 x 19/4.2 x 22/4.8 x 13/4.8 x 16/4.8 x 19
 - 50x AGR 1318: 3.9 x 22/4.2 x 25/4.8 x 25
- Art. No. 9000R 2600: Sealing rings 7603 A, copper in tray, contents: 1,195 pieces
- 100x AGR 2600: 6 x 10 x 1.0/6 x 12 x 1.0/8 x 12 x 1.0/8 x 14 x 1.0/10 x 14 x 1.0/10 x 16 x 1.0/12 x 16 x 1.5/12 x 18 x 1.5/14 x 18 x 1.5/14 x 20 x 1.5
- 50x AGR 2600: 16 x 20 x 1.5
- 25x AGR 2600: 16 x 22 x 1.5/18 x 24 x 1.5/20 x 26 x 1.5/22 x 27 x 1.5/26 x 32 x 2.0
- 10x AGR 2600: 30 x 36 x 2.0/32 x 38 x 2.0
- Art. No. 9000R 2801: Split pins DIN 94, zinc-plated in tray, contents: 1,325 pieces
 - 200x AGR 2801: 1 x 20/1.6 x 32/2 x 32
 - 100x AGR 2801: 2.5 x 32/2.5 x 40/3.2 x 32/3.2 x 50/3.5 x 40/4 x 40
 - 50x AGR 2801: 4 x 63/5 x 50
 - 25x AGR 2801: 6.3 x 63
- Art. No. 9000R 3731: Heat shrink tubing SR 2:1 in tray, contents: 120 pieces
 - 25x AGR 3731: 2.4/3.2
 - 20x AGR 3731: 4.8
 - 15x AGR 3731: 6.4/9.5
 - 10x AGR 3731: 12.7
 - 5x AGR 3731: 19.0/25.4
- Art. No. 9000R 3810: Fuses standard in tray, contents: 257 pieces
 - 1x Art. No. 3810 1: Fuse removal tool
 - 25x AGR 3810: 2A/3A/5A/7.5A/10A/15A/20A/25A/30A/40A
 - 5x Art. No. 3815 3810: Fuses standard holder with cutter
 - 2x Art. No. 3815 3810 2: Blade fuse holder with connector 6.3 mm flat plug tab
- 1x Art. No. 9026 8: Tray for assortment box, 8-fold
- 1x Art. No. 9026 10: Tray for assortment box, 10-fold
- 1x Art. No. 9026 12: Tray for assortment box, 12-fold
- 1x Art. No. 9026 18: Tray for assortment box, 18-fold
- 72x Art. No. 9056 1: Box size 2, blue
- 45x Art. No. 9057 1: Box size 3, blue
- 3x Art. No. 9100 0: VARO base and perforated panel
- 1x Art. No. 9100 1: VARO drawer unit 1 with 3 drawers
- 3x Art. No. 9100 2: VARO box unit 2 for storage boxes size 2
- 3x Art. No. 9100 3: VARO box unit 3 for storage boxes size 3
- 1x Art. No. 9100 44: VARO chemical unit 4, 2-fold
- 1x Art. No. 9100 7: VARO universal base 7



VARO DIN Rack

- With all common sizes and types
- Ideal overview and inventory control
- Robust and extendable version
- Rack consisting of approx. 8,000 DIN and standard parts; 63 boxes size 2; 4 VARO rack units
- Dimensions (H x W x D) (assembled): 2,160 x 785 x 400 mm

Article No.	Article Description	QTY
9052 63	VARO DIN PARTS RACK ASSEMBLED	1

Contents:

DIN 933 zn:

- each 200 pcs. 5 x 16 / 5 x 20 / 6 x 16 / 6 x 20
- each 100 pcs. 5 x 25 / 6 x 25 / 6 x 30 / 8 x 20 / 8 x 25 / 8 x 30 / 8 x 40 / 10 x 20
- each 50 pcs. 10 x 30 / 10 x 40

DIN 125 zn:

- each 200 pcs. 5 / 6 / 8
- each 100 pcs. 10 / 12

Body washers zn:

- each 200 pcs. 5 x 15 / 5 x 20 / 6 x 20 / 6 x 25 / 8 x 20
- each 100 pcs. 8 x 30 / 10 x 25 / 10 x 30 / 12 x 30

DIN 127 zn:

- each 200 pcs. 5 / 6 / 8
- each 100 pcs. 10 / 12

DIN 934 zn:

- each 200 pcs. M 5 / M 6 / M 8
- each 100 pcs. M 10 / M 12

DIN 985 zn:

- each 100 pcs. M 5 / M 6 / M 8 / M 10 / M 12

Sheet metal screws, black zinc-plated:

- each 100 pcs. 2.9 x 13 / 2.9 x 16 / 3.5 x 16 / 3.5 x 19 / 3.9 x 19 / 3.9 x 22 / 4.2 x 19 / 4.2 x 25

Flat head sheet metal screws, black zinc-plated:

- each 100 pcs. 3.9 x 16 / 3.9 x 19

Sheet nuts:

- each 100 pcs. 2.9 / 3.5 / 3.9 / 4.2

Blind rivets:

- each 100 pcs. 3 x 12 / 4 x 12 / 4 x 16 / 5 x 12 / 5 x 16
- each 50 pcs. 6 x 12

Storage boxes:

- blue size 2 'S' 63 pieces



Box Programme

Storage boxes:

- Made of shock-resistant polystyrene
- Stackable
- Ideal storage system for small parts

If you order x filled boxes ...	you will get 1 rack free of charge
36 Boxes size 2	Art. No. 9060 36
72 Boxes size 2	Art. No. 9060 72
108 Boxes size 2	Art. No. 9060 108
63 Boxes size 2 and 12 Boxes size 3	Art. No. 9060 63 12
63 Boxes size 2 and 30 Boxes size 3	Art. No. 9060 63 30



Box size 2
Dimension LxWxH:
160 / 140 x 100 x 75 mm

Box size 3
Dimension LxWxH:
230 / 200 x 145 x 125 mm

Hex Head Bolts DIN 933 8.8, Galvanized in Box 2

- Thread up to the head
- Tensile strength 8.8

Article No.	Article Description	QTY
1011B 5 16	BOX(3.0)HEX 933 8.8 GA 5X 16	1
1011B 5 20	BOX(3.0)HEX933 8.8 GA 5X 20	1
1011B 5 25	BOX(3.0)HEX 933 8.8 GA 5X 25	1
1011B 5 30	BOX(3.0)HEX 933 8.8 GA 5X 30	1
1011B 6 10	BOX(2.0)HEX 933 8.8 GA 6X 10	1
1011B 6 16	BOX(2.0)HEX 933 8.8 GA 6X 16	1
1011B 6 20	BOX(2.0)HEX933 8.8 GA 6X 20	1
1011B 6 25	BOX(2.0)HEX933 8.8 GA 6X 25	1
1011B 6 30	BOX(2.0)HEX 933 8.8 GA 6X 30	1
1011B 6 40	BOX(1.5)HEX 933 8.8 GA 6X 40	1
1011B 8 16	BOX(2.0)HEX 933 8.8 GA 8X 16	1
1011B 8 20	BOX(1.5)HEX 933 8.8 GA 8X 20	1
1011B 8 25	BOX(1.5)HEX 933 8.8 GA 8X 25	1
1011B 8 30	BOX(1.0)HEX 933 8.8 GA 8X 30	1
1011B 8 35	BOX(1.0)HEX 933 8.8 GA 8X 35	1
1011B 8 40	BOX(1.0)HEX 933 8.8 GA 8X 40	1
1011B 8 50	BOX(1.0)HEX 933 8.8 GA 8X 50	1
1011B 10 20	BOX(1.0)HEX 933 8.8 GA 10X 20	1
1011B 10 25	BOX(1.0)HEX 933 8.8 GA 10X 25	1
1011B 10 30	BOX(0.5)HEX 933 8.8 GA 10X 30	1
1011B 10 40	BOX(0.5)HEX 933 8.8 GA 10X 40	1

(M × Length mm)



Binding Head Screws DIN7985 4.8, GA in Box 2

- With recessed head
- Galvanized steel

Article No.	Article Description	QTY
1231B 4 20	BOX(2.0) DIN 7985 GA 4X20	1
1231B 5 16	BOX(2.0) DIN 7985 GA 5X16	1
1231B 5 20	BOX(2.0) DIN 7985 GA 5X20	1
1231B 5 25	BOX(2.0) DIN 7985 GA 5X25	1
1231B 6 16	BOX(2.0) DIN 7985 GA 6X16	1
1231B 6 20	BOX(2.0) DIN 7985 GA 6X20	1

(M × length)



Sheet Metal Binding Head Screws DIN 7981 GA, Box

- With PH recessed head
- Galvanized steel

Article No.	Article Description	QTY
1311B 42 13	BOX(5.0)DIN 7981 GA 4.2X13	1
1311B 42 16	BOX(5.0)DIN 7981 GA 4.2X16	1
1311B 42 19	BOX(5.0)DIN 7981 GA 4.2X19	1
1311B 42 25	BOX(5.0)DIN 7981 GA 4.2X25	1
1311B 48 13	BOX(5.0)DIN 7981 GA 4.8X13	1
1311B 48 16	BOX(5.0)DIN 7981 GA 4.8X16	1
1311B 48 19	BOX(3.0)DIN 7981 GA 4.8X19	1
1311B 48 25	BOX(2.5)DIN 7981 GA 4.8X25	1
1311B 48 32	BOX(2.5)DIN 7981 GA 4.8X32	1

(Ø × length mm)



Sheet Metal Binding Head Screws DIN 7981 GA, box 2

- With PH recessed head
- **Black zinc-coated steel**

Article No.	Article Description	QTY
1313B 42 16	BOX(5.0)LK-PH-BL.7981BGA4.2X16	1
1313B 42 19	BOX(5.0)LK-PH-BL.7981BGA4.2X19	1
1313B 42 25	BOX(5.0)LK-PH-BL.7981BGA4.2X25	1
1313B 48 19	BOX(3.0)LK-PH-BL.7981BGA4.8X19	1
1313B 48 25	BOX(2.5)LK-PH-BL.7981BGA4.8X25	1

(Ø × length in mm)



Sheet Metal Flat Round Head DIN 968 Black in Box 2

- With PH recessed head
- **Black zinc-coated steel**

Article No.	Article Description	QTY
1318B 39 13	BOX(5.0)DIN 7981 SW3 3.9X13	1
1318B 39 16	BOX(5.0)DIN 7981 SW3 3.9X16	1
1318B 39 19	BOX(5.0)DIN 7981 SW3 3.9X19	1
1318B 42 13	BOX(5.0)DIN 7981 SW4 4.2X13	1
1318B 42 16	BOX(5.0)DIN 7981 SW4 4.2X16	1
1318B 42 19	BOX(2.5)DIN 7981 SW4 4.2X19	1
1318B 48 13	BOX(3.0)DIN 7981 SW4 4.8X13	1
1318B 48 16	BOX(3.0)DIN 7981 SW4 4.8X16	1
1318B 48 19	BOX(2.5)DIN 7981 SW4 4.8X19	1
1318B 48 25	BOX(2.5)DIN 7981 SW4 4.8X25	1

(Ø × length in mm)



PC Cabinet with Casters

- stable, durable steel construction
- abrasion tested and environmentally friendly powder coating
- on casters (for self-assembly, 2 swivel and 2 fixed castors)
- ventilation slots in the back panel
- electrical connections installed
- cooling fan
- to accommodate flat panel display (monitor compartment lockable with transparent disc), printer (height-adjustable shelf), keyboard and mouse (storage extendable and lockable)

Technical Data

Height with wheels: 1850 mm
Height without wheels: 1750 mm
Width: 640 mm
Depth: 630 mm



Article No.	Article Description	QTY
9100 26	PC CABINET WITH CASTERS	1

Workshop Planner for 48 Order Bags

- Workshop planner for 48 order bags in size DIN A4, 8 rows
- With holder for pens and highlighters
- For wall mounting
- RAL 5003 blue
- Dimensions (H x W x D): 934 x 1550 x 80 mm
- Weight: 42 kg



Article No.	Article Description	QTY
9100 848	WORKSHOP PLANNER 48 ORDER BAGS	1

Workshop Planner for 24 Order Bags

- Workshop planner for 24 order bags in size DIN A4, 8 rows
- With holder for pens and highlighters
- For wall mounting
- RAL 5003 blue
- Dimensions (H x W x D): 934 x 800 x 80 mm
- Weight: 23 kg



Article No.	Article Description	QTY
9100 824	WORKSHOP PLANNER 24 ORDER BAGS	1

Workshop Wagon – Mobile Diagnostics

- Professional diagnostics workshop wagon for car and commercial vehicle operations
- Weight: 43 kg
- Body colour: blue (RAL 5003)
- Drawer colour: anthracite grey (RAL 7016)

Dimensions (H x W x D):

- Diagnostics cart: 1.155 x 485 x 400 mm
- Drawer: 70 x 300 x 340 mm
- Block rollers: ø 125 mm
- Castors: ø 125 mm, braked

Your Advantage / Benefit

- For the clean and orderly storage of diagnostic tools
- The upper rubber-coated support is particularly suited for a diagnostic laptop
- The lockable folding cover serves as visual, glare and dust protection and as a writing surface
- 1 lockable compartment with 2 shelves, which are used to store printer and diagnostic accessories
- 1 drawer for additional accessories from the diagnostics assortment
- Integrated triple socket with 5 m long connection cable
- Compact design

Application

- Ideally suited for the usage of car and commercial vehicle diagnostic devices



Article No.	Article Description	QTY
4990 440	WORKSHOP WAGON-MOBILE DIAGN.	1
4990 440 1	SHELVES FOR DIAGNOSTICS MOBILE	1

Workshop Shelf Trolley 220 „Standard“

- High-quality mobile workshop shelving unit
- Total load-bearing capacity: 250 kg
- Load per shelf: 100 kg
- Colour: blue (RAL 5003)

Dimensions:

- Workshop shelf trolley (H×W×D): 1,202×1,080×500 mm
- Block rollers ø: 125 mm
- Casters ø: 125 mm



Your Advantage / Benefit

- Mobile workshop shelf trolley
- Large shelves for storing tools, working equipment, bodywork and assembly components plus spare parts and case sets
- Height-adjustable middle shelf
- The shelves can also be assembled with raised outside edge
- The top two shelves are fully galvanized for increased resistance to corrosion and chemicals
- Ergonomic grip height of 880 mm
- Orderly and organised workplace

Application

- Ideal for automotive dismantling and assembly work
- Perfect addition to the storage area
- Ideal service trolley for inspections and major repairs



Article No.	Article Description	QTY
4990 220	WORKS.SHELF TROLLEY STANDARD	1

Related Products

■ Galvanised Shelf for Workshop Trolley
Art. No. 4990 220 1

■ Rubber Insert for Workshop Trolley 220
Art. No. 4990 220 2



Tool Trolley Pro XXL

Art. No. 4990 820 Tool trolley Profi XXL:

- Dimensions (H x W x D): 940 x 993 x 490 mm
- Robust sheet steel version with robust substructure
- Working platform made of ABS plastic with small part trays, load capacity 200 kg
- 5 drawers, inside size (H x W x D): 65 x 865 x 410 mm, height of orifice 75 mm
- 2 drawers, inside size (H x W x D): 140 x 865 x 410 mm, height of orifice 150 mm
- Load capacity of the single drawers: 35 kg, ball bearing, extendible
- Drawers with individual lockings, integrated in the orifice
- Central locking system with cylinder lock, lockable
- Back board with square perforation
- Robust sliding handle
- 2 fixed and 2 braked steering rollers, Ø 125 mm
- Suitable slotted wall: Art. No. 4990 812

Art. No. 4990 821 Cabinet for tool trolley Profi XXL:

- Dimensions (H x W x D): 495 x 993 x 485 mm
- Big packages with head, lockable
- Drawers with individual lockings, integrated in the orifice
- Central locking system with cylinder lock, lockable
- 4 drawers, inside size (H x W x D): 65 x 865 x 410 mm, height of orifice 75 mm
- Load capacity of single drawers: 35 kg, ball bearing, extendible
- 2 big robust handles, lateral at the cabinet

Art. No. 4990 829 Tool trolley Profi XXL Kombi:

- With cabinet
- Not assembled

Art. No. 4990 830 Set:

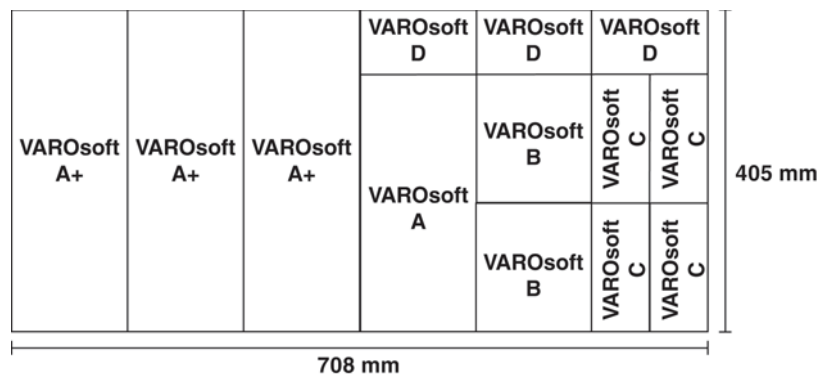
- Height: 50 mm
- 3 slotted walls, length: 409 mm
- 6 slotted, length: 201 mm
- 6 separating plates, length: 227 mm

Art. No. 4990 831 Set:

- Height: 100 mm
- 3 slotted walls, length: 409 mm
- 6 separating plates, length: 201 mm
- 6 separating plates, length: 227 mm



Individual locking of any drawer avoids unintentional opening when ranking, ball bearing guide bars are standard



Arrangement of drawers

Article No.	Article Description	QTY
4990 820	TOOL TROLLEY PROFI XXL	1
4990 821	CABINET F.TOOL TROLL.PROFI XXL	1
4990 829	TOOL TROLLEY PROFI XXL KOMBI	1
4990 830	TRAY P.SET F.TOOL T.XXL H50MM	1
4990 831	TRAY P.SET F.TOOL T.XXL H100MM	1

Tool Trolley Mechanic



Stable handle

Solvent-resistant plastic-worktop

Tested with 40 kg according to DIN , 25 kg load per drawer is recommended

All drawers 100% telescopic due to ball bearing telescopic slide

Individual locking of every drawer prevents unintended opening when shunting, ball bearing guide rails are standard

Big surfaces for attaching accessories at the side

3-phase locking concept for higher security
 - Central locking with cylinder lock + 2 keys
 - Individual locking
 - Plus pull-out stop for minimum tilting risk (can be deactivated by the user with a few manual adjustments)

Ball bearing rollers Ø 125 mm



4990 179 180 33



4990 179 180 34



4990 179 31 4



4990 179 32 4

- Telescopic drawers
- Drawers 100% telescopic
- Individual drawer locking with pull-out stop
- Central locking for drawers lockable
- Load capacity of drawers according to DIN tested with 40 kg
- Stable handle mounted at corpus
- Solvent-resistant worktop
- Rectangle hole grid at the side walls
- Edge protection at every corner

Art. No. 4990 179:

- Tool trolley mechanic blue /light grey (RAL5003 / RAL7035)

Art. No. 4990 179 1:

- Tool trolley mechanic black / light grey (RAL 9005/ RAL 7035)

Art. No. 4990 179 2:

- Tool trolley mechanic red / red light grey (RAL 2002 / RAL 7035)

Art. No. 4990 179 0 1:

- Tool trolley mechanic blue / anthracite (RAL 5003 / RAL 7016)

Art. No. 4990 179 1 1:

- Tool trolley mechanic black / anthracite (RAL 9005 / RAL 7016)

Art. No. 4990 179 2 1:

- Tool trolley mechanic red / anthracite (RAL 2002 / RAL 7016)

Dimensions:

- Trolley (H x W x D): 1,040 x 817 x 502 mm
- Drawers (H x W x D): : 5x 75 x 524 x 398 mm, 2x 160 x 524 x 398 mm
- High-quality ball bearing rollers Ø 125 mm



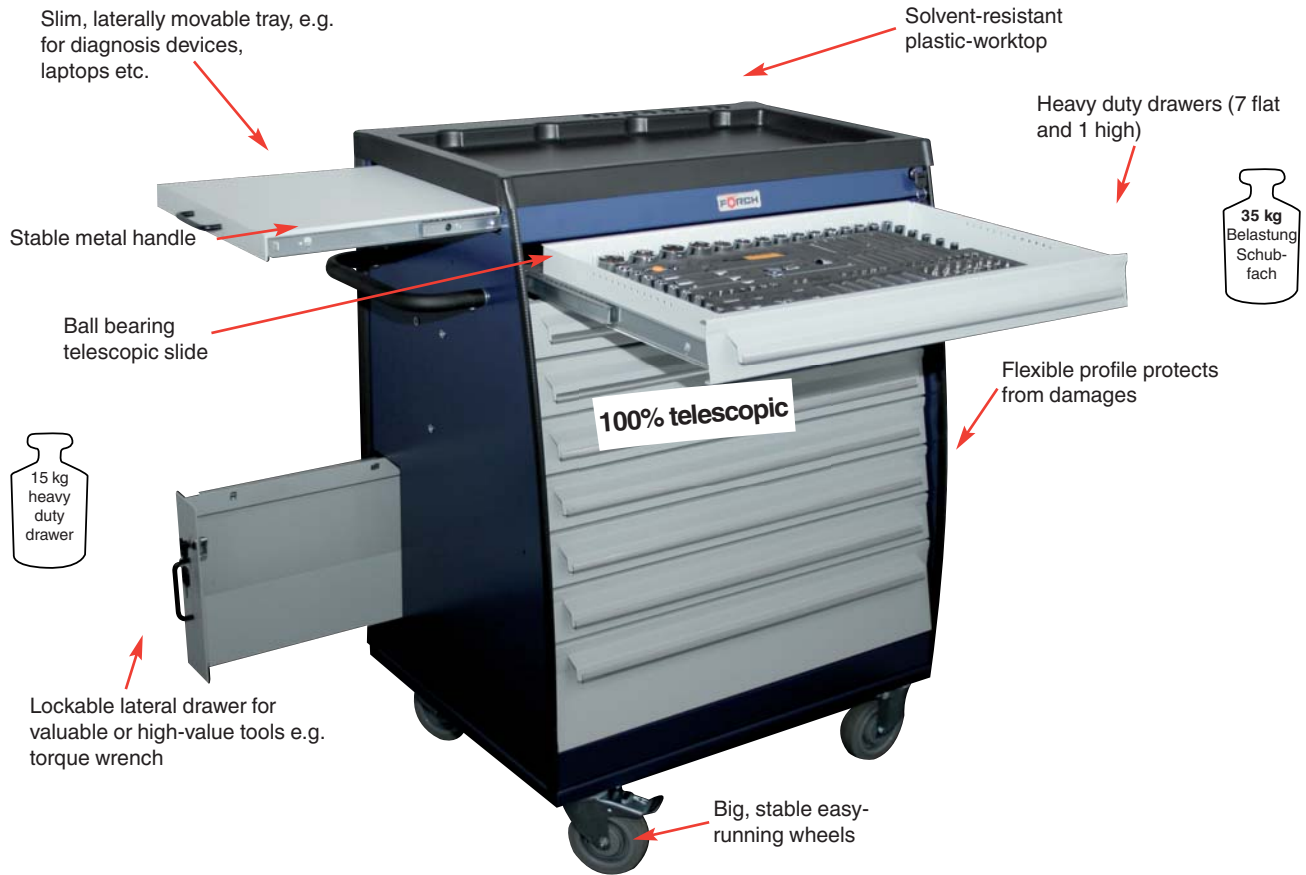
4990 179 0 1

4990 179 1 1

4990 179 2 1

Article No.	Article Description	QTY
4990 179	TOOL TROLLEY MECHANIC BLUE	1
4990 179 1	TOOL TROLLEY MECHANIC BLACK	1
4990 179 2	TOOL TROLLEY MECHANIC RED	1
4990 179 0 1	TOOL TROLLEY BLUE/ANTCRACITE	1
4990 179 1 1	TOOL TROLLEY BLACK/ANTHRACITE	1
4990 179 2 1	TOOL TROLLEY RED/ANTHRACITE	1
4990 179 31 4	SHELF DIV.SET F.179 DRAW.FLAT	1
4990 179 32 4	SHELF DIV.SET F.179 DRAW.HIGH	1
4990 179 180 33	RECYCLE BIN FOR TROLLEY 179	1
4990 179 180 34	HOLD.FOR PAP.ROLL F.TROLLEY179	1
5001 80 08	180-08 CYLINDER LOCK+KEY	1
5001 79 011	179-011 SWIVEL CAST.W.LOCKABL.	1
5001 79 09	179-09 FIXED CASTOR	1

Tool Trolley Mechanic XL



- Telescopic drawers
- Drawers 100% telescopic
- Individual drawer locking with pull-out stop
- Central locking for drawers lockable
- Load capacity of drawers according to DIN tested with 40 kg
- Stable handle mounted at corpus
- Solvent-resistant worktop
- Rectangle hole grid at the side walls
- Edge protection at every corner

Art. No. 4990 179:

- Tool trolley mechanic blue /light grey (RAL5003 / RAL7035)

Art. No. 4990 179 1:

- Tool trolley mechanic black / light grey (RAL 9005/ RAL 7035)

Art. No. 4990 179 2:

- Tool trolley mechanic red / red light grey (RAL 2002 / RAL 7035)

Art. No. 4990 179 0 1:

- Tool trolley mechanic blue / anthracite (RAL 5003 / RAL 7016)

Art. No. 4990 179 1 1:

- Tool trolley mechanic black / anthracite (RAL 9005 / RAL 7016)

Art. No. 4990 179 2 1:

- Tool trolley mechanic red / anthracite (RAL 2002 / RAL 7016)

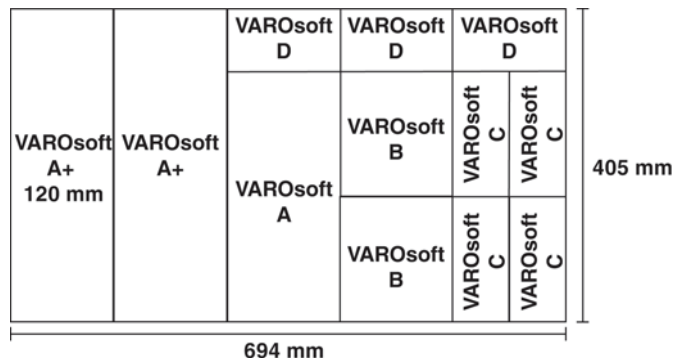
Dimensions:

- Trolley (H x W x D): 1,040 x 817 x 502 mm
- Drawers (H x W x D): : 5x 75 x 524 x 398 mm, 2x 160 x 524 x 398 mm
- High-quality ball bearing rollers Ø 125 mm

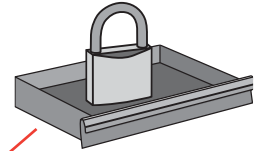
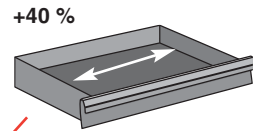


4990 173 0 1

Article No.	Article Description	QTY
4990 173	TOOL TROLLEY MECHANIC XL BLUE	1
4990 173 0 1	TOOL TROLLEY XL BLUE/ANTHRAC.	1



Tool Trolley 179 XL



Big surfaces for attaching accessories at the side

100 % pull out + self closing and soft close

Ball bearing rollers Ø 125 mm



Hole pattern
Art. No. 4990 179 5 3



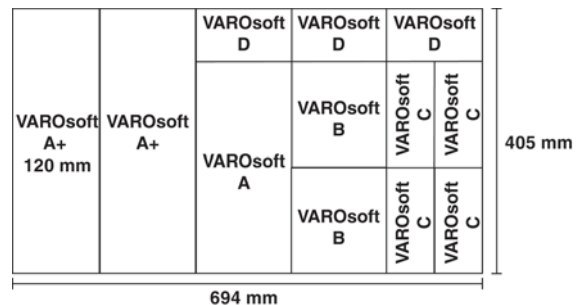
Side door
Art. No. 4990 179 5 1

- Made in Germany
- 40 % more drawer volume than conventional tool trolleys
- Telescopic slide rails
- 100 % removal of drawers
- Self closing and soft close drawers
- Single locking of the drawers with mutual extension lock
- Central locking for drawers lockable
- Drawer capacity checked according to DIN with 40 kg
- Stable driving grip fitted to the body
- Stainless steel worktop
- Rectangular hole pattern on the side walls
- Edge protection on all corners
- Total load capacity 1,000 kg

Dimension:

- Tool trolley (H x W x D): 1,027 x 980 x 503 mm
- Total weight 101 kg
- Drawers (H x W x D): 5x 80 x 694 x 398 mm, 2x 165 x 694 x 398 mm
- High-quality ball bearing rollers: Ø 125 mm

Article No.	Article Description	QTY
4990 179 5	TOOL TROLL.W.ASSITANT BU 179XL	1
4990 179 5 1	SIDE DOOR F.179XL,XXL A.TXXL	1
4990 179 5 3	HOLE PATTERN FOR 179 XL	1
5001 73 31 5	173-31/5 DIVIDING SHEET SET	1
5001 73 32 5	173-32/5 DIVIDING SHEET SET	1

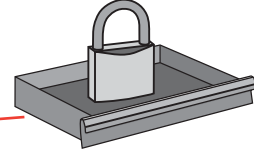
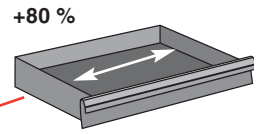


Tool Trolley 179 TXXL



Big surfaces for attaching accessories at the side

Ball bearing rollers Ø 125 mm



100 % pull out + self closing and soft close

- Made in Germany
- 80% more drawer volume than conventional tool trolleys
- telescopic slide rails
- 100% removable drawers
- self closing and soft close drawers
- single locking of the drawers with mutual extension lock
- central locking for drawers lockable
- drawer capacity checked according to DIN with 40 kg
- stable driving grip fitted to the body
- stainless steel worktop
- rectangular hole pattern on the side walls
- edge protection on all corners
- total load capacity 1,000 kg

Dimension:

- tool trolley HxWxD: 1,027x1155x503 mm
- total weight 122 kg
- drawers HxWxD: 5x 80x871x398 mm, 2x 165x871x398 mm
- high-quality ball bearing rollers: Ø 125 mm

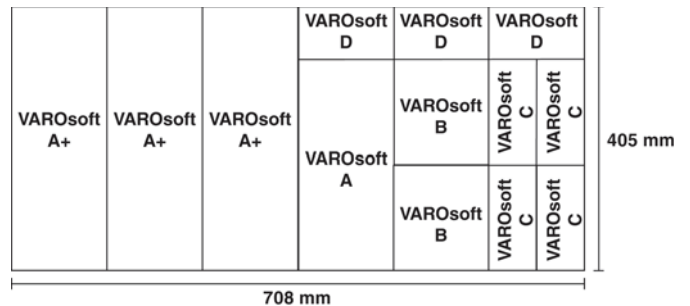


Hole pattern
Art. No. 4990 179 6 3



Side wall
Art. No. 4990 179 5 1

Article No.	Article Description	QTY
4990 179 6	TOOL TROLL.W.ASSIST.BU 179XXL	1
4990 179 5 1	SIDE DOOR F.179XL,XXL A.TXXL	1
4990 179 6 3	HOLE PATTERN FOR 179XXL A.TXXL	1
5001 73 31 5	173-31/5 DIVIDING SHEET SET	1
5001 73 32 5	173-32/5 DIVIDING SHEET SET	1



Tool Trolley 861 STRONG



- Reinforced version
- Single lock for each drawer
- Central locking for drawers lockable
- Total load capacity: 350 kg
- Drawer capacity: 40 kg
- Tool trolley blue (RAL 5003), red (RAL 2002), black (RAL 9005)
- Drawer anthracite grey (RAL 7016), drawers light grey (RAL 7035)

Dimensions:

- Tool Trolley (H x W x D): 990 x 710 x 545 mm
- 5x drawers (H x W x D): 70 x 578 x 410 mm
- 2x drawers (H x W x D): 150 x 578 x 410 mm
- Fixed castors Ø 125 mm
- Swivel castors Ø 125 mm, with brakes

Art. No. 4990 860 11:

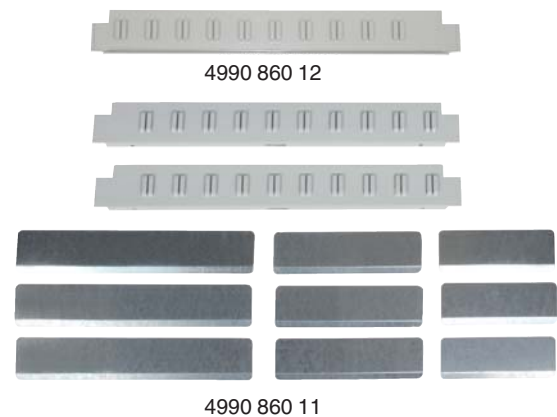
- 2x slot walls, 3x separating plates L-133 mm, 3x separating plates L-167 mm, 3x separating plates L-269 mm

Art. No. 4990 860 13:

- 2x slot walls, 3x separating plates L-269 mm, 3x separating plates L-167 mm, 3x separating plates L-133 mm



Article No.	Article Description	QTY
4990 861 0	TOOL TROLLEY BLUE/GREY STRONG	1
4990 861 10	TOOL TROLLEY RED/GREY STRONG	1
4990 861 20	TOOL TROLLEY BLACK/GREY STRONG	1
4990 861	TOOL TROLLEY BLUE/ANTHR.STRONG	1
4990 861 1	TOOL TROLLEY RED /ANTHR.STRONG	1
4990 861 2	TOOL TROLL.BLACK /ANTHR.STRONG	1
4990 861 4	SWIVEL CASTOR FOR 861/661	1
4990 861 5	FIXED CASTOR FOR 861/661STRONG	1
4990 861 6	PAIR(2)TELESC.SLIDE STRONG 861	1
4990 861 7	REPL.HANDLE FOR 861/661 STRONG	1
4990 861 8	CASTLE FOR T.T.STRONG 861/661	1
4990 860 11	TRAY P.SET F.TOOL TROLLEY 860	1
4990 860 12	SLOTTED WALL F.T.TROLLEY 860	1
4990 860 13	TRAY P.SET FOR 860 BIG DRAWER	1



Tool Trolley 862 Strong



Safe storage of chemical products (storage compartments: Accessories)

- Reinforced version
- Individual lock for each drawer
- Central closure mechanism for drawers can be locked
- Total load bearing capacity: 350 kg
- Drawer load bearing capacity: 40 kg
- Tool trolley, blue (RAL 5003), black (RAL 9005)
- Drawer, anthracite grey (RAL 7016), drawer, light grey (RAL 7035)

Dimensions:

- Tool trolley (H x W x D): 990 x 710 x 545 mm
- 7x drawers (H x W x D): 70 x 578 x 410 mm
- 1x drawer (H x W x D): 150 x 578 x 410 mm
- Fixed castors Ø 125 mm
- Swivel castors Ø 125 mm, with brakes

Art. No. 4990 860 11:

- 2x perforated walls, 3x partitions L-133 mm, 3x partitions L-167 mm, 3x partitions L-269 mm

Art. No. 4990 860 13:

- 2x perforated walls, 3x partitions L-269 mm, 3x partitions L-167 mm, 3x partitions L-133 mm



4990 860 11

Article No.	Article Description	QTY
4990 862	TOOL TROLL.BLUE/ANTHR.S.STRONG	1
4990 862 0	TOOL TROLLEY BLUE/GREY STRONG	1
4990 862 2	TOOL TROLL.BLACK/ANTH. STRONG	1
4990 861 4	SWIVEL CASTOR FOR 861/661	1
4990 861 5	FIXED CASTOR FOR 861/661STRONG	1
4990 861 6	PAIR(2)TELESC.SLIDE STRONG 861	1
4990 861 7	REPL.HANDLE FOR 861/661 STRONG	1
4990 861 8	CASTLE FOR T.T.STRONG 861/661	1
4990 860 11	TRAY P.SET F.TOOL TROLLEY 860	1
4990 860 12	SLOTTED WALL F.T.TROLLEY 860	1
4990 860 13	TRAY P.SET FOR 860 BIG DRAWER	1

Tool Trolley 661 STRONG



Ergonomic handle

Big working surface with partition made of ABS plastic, impact-resistant

Central locking system



Individual locking of any drawer avoids unintentional opening when ranking, ball bearing guide bars are standard.



Can be combined optimal with e.g. the extension table and chemical storage due to the Euro-standards holes

- Reinforced version
- Individual lock for every drawer
- Central locking system may be activated for drawers
- Total load capacity: 300 kg
- Load capacity of each drawer: 40 kg
- Back panel with 2 double rows of Euro-standard holes
- Tool trolley available in blue (RAL 5003), red (RAL 3020), black (RAL 9005)
- Light grey drawers (RAL 7035)

Dimensions:

- Tool trolley (H x W x D): 950 x 610 x 450 mm
- 4x drawers (H x W x D): 65 x 442 x 350 mm
- 1x drawer (H x W x D): 145 x 442 x 350 mm
- 1x drawer (H x W x D): 225 x 442 x 350 mm
- Fixed castors Ø 125 mm
- Swivel castors Ø 125 mm, with brakes



4990 661 10



4990 661 20



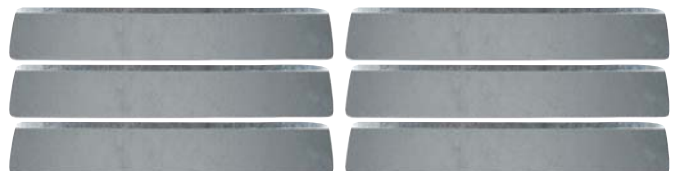
4990 661



4990 661 1



4990 661 2



Article No.	Article Description	QTY
4990 661 0	TOOL TROLLEY BLUE/GREY STRONG	1
4990 661 10	TOOL TROLLEY RED /GREY STRONG	1
4990 661 20	TOOL TROLLEY BLACK/GREY STRONG	1
4990 661	TOOL TROLLEY BLUE/ANTHR.STRONG	1
4990 661 1	TOOL TROLLEY RED /ANTHR.STRONG	1
4990 661 2	TOOL TROLL.BLACK/ANTRHR.STRONG	1
4990 663	PCK(6)TRAY PART.SET F.WSW 660	1
4990 665	PCK(6)TRAY PART.SET BIG DR.660	1
4990 861 4	SWIVEL CASTOR FOR 861/661	1
4990 861 5	FIXED CASTOR FOR 861/661STRONG	1
4990 661 6	PAIR(2)TELESC.RAIL 661 STRONG	1
4990 861 7	REPL.HANDLE FOR 861/661 STRONG	1
4990 861 8	CASTLE FOR T.T.STRONG 861/661	1
4990 660 9	PLASTIC SHELF F.T.T. 660/661	1

Toolbox STRONG

- High-quality, reinforced toolbox for the automotive and construction sectors
- Toolbox blue (RAL 5003), drawers light grey (RAL 7035)
- Contents not included

Suitable for workshop trolley of Series:

- 179, 861, 740

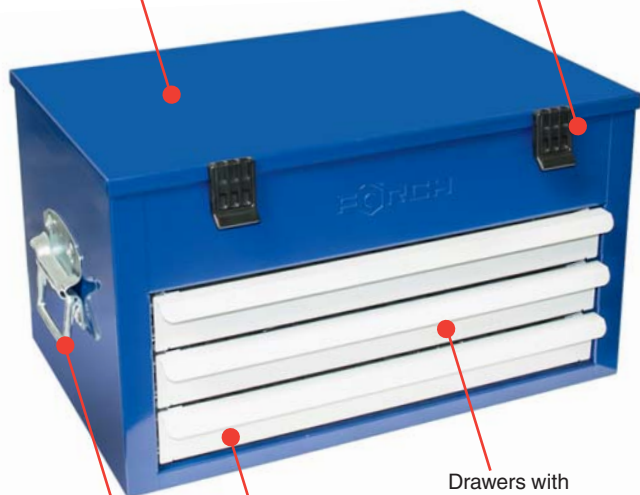
Dimensions:

- Toolbox (H x W x D): 285 x 525 x 340 mm



Big compartment
e.g. for machines

Stable closing system



Stable, galvanised handles

Drawers with self closure



3 drawers with stopping function to avoid uncontrolled opening
Height: 50 mm for compatibility with the VAROsoft insert

Your Advantage / Benefit

- Structured and orderly storage of tools, small parts and replacement parts
- Central locking for all drawers by closing the cover

Application

- For mobile use in the vehicle and on the workshop trolley



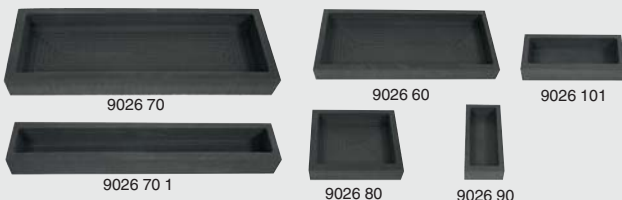
Examples of VAROsoft inserts:

VAROsoft A+	VAROsoft D	VAROsoft D	VAROsoft D
	VAROsoft A	VAROsoft B	VAROsoft C
		VAROsoft C	VAROsoft C
VAROsoft B	VAROsoft C	VAROsoft C	VAROsoft C

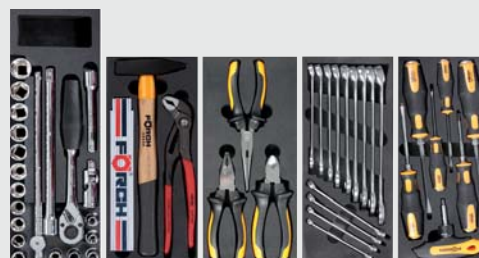
Article No.	Article Description	QTY
4990 525	TOOLBOX STRONG	1

Related Products

- VAROsoft System Inserts, Non-Equipped
Art. No. 9026 70, 9026 70 1
Art.-No 9026 60, 9026 80
Art. No. 9026 90, 9026 101



- Tool Kit 47-part
Art. No. 4990 2



Wooden Shelf for Tool Trolley 661 / 861

- 18 mm thick birch multiplex board
- Art. No. 4990 661 9: suitable for tool trolley Art. No. 4990 661
- Art. No. 4990 861 9: suitable for tool trolley Art. No. 4990 861

Dimensions:

- Art. No. 4990 661 9 (L x W): 59.5 x 43.3 cm
- Art. No. 4990 861 9 (L x W): 70.0 x 54.0 cm

Note:

- The plastic shelf on the trolley can be removed undamaged by heating with a hot air blower



Example with
4990 661 0



Example with
4990 861 0

Article No.	Article Description	QTY
4990 661 9	WOODEN SHELF F.T.TROLL.660/661	1
4990 861 9	WOODEN SHELF F.T.TROLL.860/861	1

Your Advantage / Benefit

- Robust and stable shelf

Application

- For disassembly and assembly work



Related Products

- Tool Trolley 661 STRONG
Art. No. 4990 661 ...



- Tool Trolley 861 STRONG
Art. No. 4990 861 ...



- Vices
Art. No. 4718 120



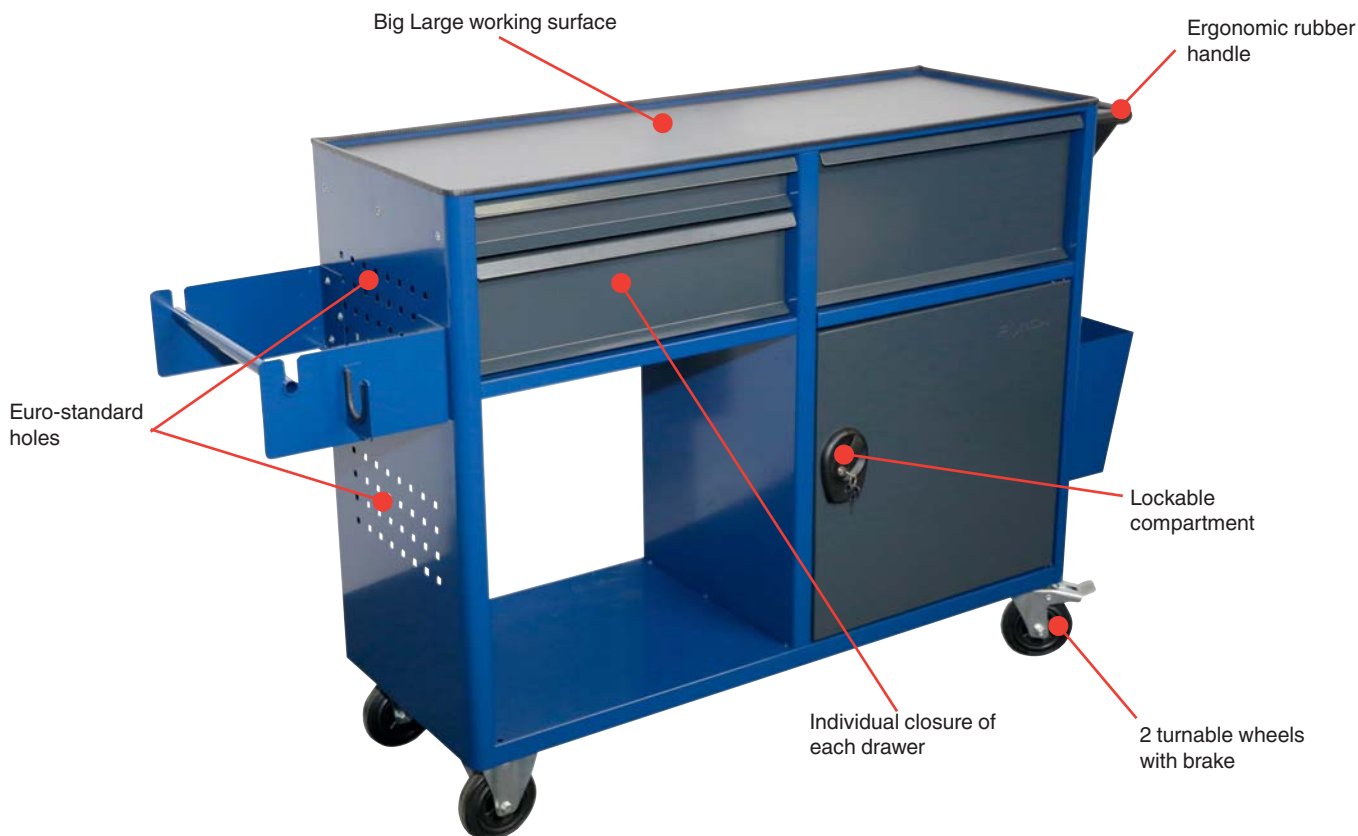
Holder for Grinding Pads

- Practical device for storage and tear-off of grinding papers on rolls
- Ideal to be used for grinding pads AGR 5945

Article No.	Article Description	QTY
4990 750 16	HOLD. GRIND.PADS W.SH.TROL/PFA	1



Workshop Wagon for PFA / Painter



- Mobile workplace for the professional car worker directly on the vehicle
- Perfect stowage options of all products
- Big working surface
- Can be equipped individually
- Total load capacity: 250 kg
- Drawer load capacity: 30 kg
- Workshop wagon blue (RAL 5003), drawers and lockable compartment anthracite grey (RAL 7016)

Dimensions:

- Workshop wagon PFA (H x W x D): 840 x 1,165 x 440 mm
- 1x drawer small (H x W x D): 75 x 440 x 340 mm
- 1x drawer medium (H x W x D): 155 x 440 x 340 mm
- 1x drawer large (H x W x D): 235 x 440 x 340 mm
- 1x lockable compartment (H x W x D): 515 x 440 x 348 mm
- 2 fixed castors Ø 125 mm
- 2 swivel castors with brakes Ø 125 mm



Article No.	Article Description	QTY
4990 740	WORKSHOP WAGON PFA/PAINTER	1

Scope of delivery:

- Art. No. 4990 750 14: Cleaning cloth roll holder
- Art. No. 4990 750 18: Bin for workshop wagon PFA / painter

Fold-down Step

- Perfect supplement for car and commercial vehicle operations and for professional vehicle conditioners
- Space-saving and non-slip alternative to rigid stepping crates, ladders, etc.
- Solid and stable steel structure
- Resistant to tipping due to the addition of 4-edge tube feet at a 100 degree angle with PVC insert
- Total load bearing capacity: 150 kg
- Teraflex matt black/anthracite with a total thickness of 1.5 mm in compliance with DIN EN 428
- Pressure resistance of the step support as per EN 1516 / = 0.5 mm
- Colour: blue (RAL 5003)

Application:

- For elevated assembly work on the car or commercial vehicle, such as roof antennas, mirrors, wind shield wipers, etc.
- Mobile and flexible usage for vehicle conditioners and bodywork dent removers

Dimensions:

- Height: 270 mm
- Tread (L x B): 300 x 430 mm
- Metal floor thickness: 1.5 mm



Feet Folding and Unfolding Mechanism



1. Step folded



2. Unlock safety locks



3. Unfold feet



4. Lock safety locks

Article No.	Article Description	QTY
4990 125	FOLD-DOWN STEP	1

Your Advantage / Benefit

- Space-saving and non-slip alternative to rigid stepping crates, ladders, etc.
- Solid and stable steel structure
- Slip-resistant, glued-on Teraflex foot mat
- Resistant to tipping due to the addition of 4-edge tube feet at a 100 degree angle with PVC insert

Application

- Particularly suited for professional vehicle conditioning
- For elevated assembly work on the car or commercial vehicle, such as roof antennas, mirrors, wind shield wipers, etc.
- Mobile and flexible usage for vehicle conditioners and bodywork dent removers



Tool Kit 46-Part



Partition VAROsoft tool deposit:

- 4x VAROsoft tool deposit size A, (B x T): 144 x 328 mm
- 1x VAROsoft tool deposit size A+, (B x T): 144 x 405 mm

Art. No. 4202V 90:

- 7-part in VAROsoft tool deposit Art. No. 9026 313
- AGR 4202: MK screwdriver
LS 0,7 x 3,5 / 0,8 x 4,5 / 1,0 x 5,5 / 1,2 x 7,0
- AGR 4202: MK-PH screwdriver PH 1, PH 2
- Art. No. 4202 14 4: 1/4" square T-handle-ratchet

Art. No. 4584V 013:

- 13-part in VAROsoft tool deposit Art. No. 9026 61
- AGR 4584: ring spanner
SW 8/9/10/11/12/13/14/15/16/17/18/19/21

Art. No. 4415 12 21:

- 21-part in VAROsoft tool deposit
- Art. No. 4401 12 4: fine-toothed ratchet 1/2"
- Art.-Nr. 4420 125: extension square 125 mm
- Art.-Nr. 4420 250: extension square 250 mm
- Art.-Nr. 4407 12: articulation piece
- Art.-Nr. 4402 12: cross slide handle
- AGR 4427: hex socket wrench inserts
SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24

Art. No. 4099V 03:

- 3-part in VAROsoft tool deposit Art. No. 9026 66
- Art. No. 4010 160: Side cutter 160 mm
- Art. No. 4000 160: Combi pliers 160 mm
- Art.-Nr. 4030 200: Flat-nosed pliers, straight 200 mm

Art. No. 4652V 03:

- 3-part in VAROsoft tool deposit Art. No. 9026 67
- Art. No. 4650 250: Knipex Cobra water pump pliers 250 mm FÖRCH 5*
- Art. No. 4720 400: Engineer's hammer 400 g FÖRCH 5*
- Art. No. 4715 2: Pocket rule

Article No.	Article Description	QTY
4990 2	TOOL KIT 46PART	1

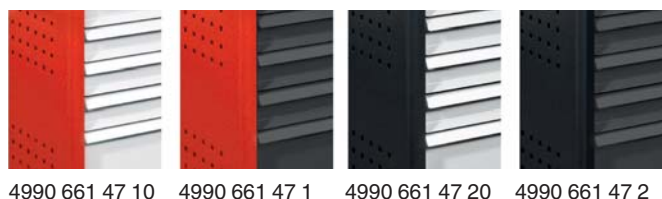
Tool Trolley 661 with 47-Part Tool Kit

- Assembled
- Application example of VAROsoft tool deposit in the drawer of tool trolley 660



VAROsoft A	VAROsoft B	VAROsoft C	VAROsoft C
	VAROsoft B	VAROsoft C	VAROsoft C

Article No.	Article Description	QTY
4990 661 47 0	T.T.BU/GREY W.TOOL KIT 47-PCE	1
4990 661 47 10	T.T.RD/GREY W.TOOL KIT 47-PCE	1
4990 661 47 20	T.T.BK/GREY W.TOOL KIT 47-PCE	1
4990 661 47	T.T.BU/GREY W.TOOL KIT 47-PCE	1
4990 661 47 1	T.T.RD/ANTR.W.TOOL KIT 47-PCE	1
4990 661 47 2	T.T.BK/ANTR.W.TOOL KIT 47-PCE	1



Tool Trolley Pro 861 with 47 Pce. Tool Kit

- Assembled
- Application example of VAROsoft tool deposit in the drawer of tool trolley 861

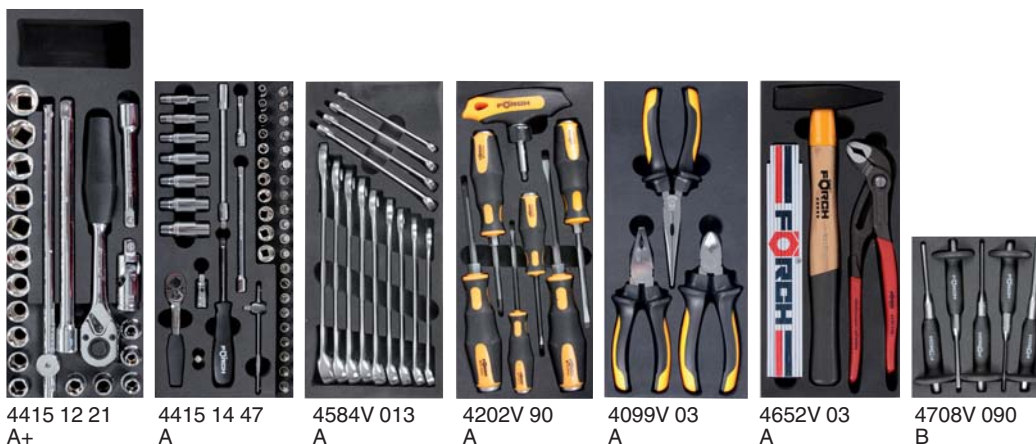


VAROsoft A+	VAROsoft D	VAROsoft D	VAROsoft D
	VAROsoft A	VAROsoft B	VAROsoft C
		VAROsoft B	VAROsoft C

Article No.	Article Description	QTY
4990 861 47	T.T.861 BU/ANTR.W.T.KIT 47-PCE	1
4990 861 47 1	T.T.861 RD/ANTR.W.T.KIT 47-PCE	1
4990 861 47 2	T.T.861 BK/ANTR.W.T.KIT 47-PCE	1
4990 861 47 0	T.T.861 BLUE WITH T.KIT 47-PCE	1
4990 861 47 10	T.T.861 RED WITH T.KIT 47-PCE	1
4990 861 47 20	T.T.861 BLACK W. T.KIT 47-PCE	1



Tool Kit 98-Part



Distribution VS system insert:

- 5x VS system insert size A, (W x D): 144 x 328 mm
- 1x VS system insert size A+, (W x D): 144 x 405 mm
- 1x VS system insert size B, (W x D): 144 x 164 mm

Art. No. 4415 12 21:

- 21-part in VAROsoft tool deposit
- Art. No. 4401 12 4: 1/2" fine-toothed ratchet 250 mm
- Art. No. 4420 125: 1/2" extension square 125 mm
- Art. No. 4420 250 1/2" extension square 250 mm
- Art. No. 4407 12: 1/2" articulation piece 67 mm
- Art. No. 4402 12: 1/2" cross slide handle 300 mm
- AGR 4427: hex socket wrench inserts SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 24

Art. No. 4415 14 47:

- 47-part in VAROsoft tool deposit
- Art. No. 4401 14 4: 1/4" fine-toothed ratchet 110 mm
- Art. No. 4403 141: 1/4" twist handle 150 mm
- Art. No. 4402 14: 1/4" cross slide handle 115 mm
- Art. No. 4407 14: 1/4" articulation piece 39 mm
- Art. No. 4418 50: 1/4" extension square 50 mm
- Art. No. 4418 125: 1/4" extension square 125 mm
- Art. No. 4417 14 150: 1/4" extension square, flexible 150 mm
- Art. No. 4361 14 64: 1/4" adapter hexagonal 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 / 10 / 11 / 12 / 13
- AGR 4450: Bit socket wrench inserts-hexagonal SW 3 / 4 / 5 / 6 / 7 / 8
- AGR 4470: Bit socket wrench inserts-cross recessed PH 1 / 2 / 3

- AGR 4471: Bit socket wrench inserts LS 4 / 5
- AGR 4455: Bit socket wrench inserts TX with head drill hole TX 10 / 15 / 20 / 25 / 27 / 30 / 40
- AGR 4462: Bit socket wrench inserts, multi-tooth M5 / M6 / M8

Art. No. 4584V 013:

- 13-part in VAROsoft tool deposit Art. No. 9026 61
- AGR 4584: ring spanner SW 8 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21

Art. No. 4202V 90:

- 7-part in VAROsoft tool deposit Art. No. 9026 613
- AGR 4202: MK screwdriver LS 0.7 x 3.5 / 0.8 x 4.5 / 1.0 x 5.5 / 1.2 x 7.0
- AGR 4202: MK-PH screwdriver PH 1, PH 2
- Art. No. 4202 14 4: 1/4" square T-handle ratchet

Art. No. 4099V 03:

- 3-part in VAROsoft tool deposit Art. No. 9026 66
- Art. No. 4010 160: Side cutter 160 mm
- Art. No. 4000 160: Combi pliers 160 mm
- Art. No. 4030 200: Flat-nosed pliers, straight 200 mm

Art. No. 4652V 03:

- 3-part in VAROsoft tool deposit Art. No. 9026 67
- Art. No. 4650 250: Knipex Cobra water pump pliers 250 mm FÖRCH 5*
- Art. No. 4720 400: Engineer's hammer 400 g FÖRCH 5*
- Art. No. 4715 2: Pocket rule 2 m

Art. No. 4708V 090:

- 5-part in VAROsoft tool deposit Art. No. 9026 85
- AGR 4708: Pin punch 3 / 4 / 5 / 6 / 8

Article No.	Article Description	QTY
4990 6	TOOL-KIT 99-PART	1

Tool Trolley 861 STRONG with 99-part Tool Kit

- Assembled
- Application example for the VAROsoft tool deposit in the drawer of the tool trolley 861

VAROsoft A+	VAROsoft D	VAROsoft D	VAROsoft D	
	VAROsoft A	VAROsoft B	VAROsoft C	VAROsoft C
		VAROsoft B	VAROsoft C	VAROsoft C



Article No.	Article Description	QTY
4990 861 99	T.T.861 BU/ANTR.W.T.KIT 99PCE	1
4990 861 99 1	T.T.861 RD/ANTR.W.T.KIT 99PCE	1
4990 861 99 2	T.T.861 BK/ANTR.W.T.KIT 99PCE	1
4990 861 99 0	T.T.861 BLUE W.T.KIT 99PCE	1
4990 861 99 10	T.T.861 RED W.T.KIT 99PCE	1
4990 861 99 20	T.T.861 BLACK W.T.KIT 99PCE	1



4990 861 99 10 4990 861 99 1 4990 861 99 20 4990 861 99 2

Tool Kit 186-Part



4415 12 25 A+ 4430 58 A+



4159 20 9026 60 A 4427V 015 A 4652V 03 A 4099V 03 A 4415 14 47 A 4628V 91 A 4202V 90 A 4586V 7 B 4708V 090 B

Distribution VS system insert:

- 2x VS system insert A+, (W x D): 144 x 405 mm
- 7x VS system insert A, (W x D): 144 x 328 mm
- 2x VS system insert B, (W x D): 144 x 164 mm

Art. No. 4427V 015:

- 10-part in VAROsoft system insert Art. No. 9026 68
- AGR 4427: 1/2" hex socket wrench insert, long SW 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19

Art. No. 4415 14 47:

- 47-part in VAROsoft system insert Art. No. 9026 63
- Art. No. 4401 14 36: 1/4" lever switch ratchet 100 mm
- Art. No. 4403 141: 1/4" twist handle 150 mm
- Art. No. 4402 14: 1/4" cross slide handle 115 mm
- Art. No. 4407 14: 1/4" articulation piece 39 mm
- Art. No. 4418 50: 1/4" extension square 50 mm
- Art. No. 4418 125: 1/4" extension square 125 mm
- Art. No. 4417 14 150: 1/4" extension square, flexible 150 mm
- Art. No. 4361 14 64: 1/4" adapter hexagonal 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 / 10 / 11 / 12 / 13
- AGR 4450: Bit hex socket wrench inserts SW 3 / 4 / 5 / 6 / 7 / 8
- AGR 4470: Bit cross recessed socket wrench inserts PH 1 / 2 / 3
- AGR 4471: Bit slotted socket wrench inserts 4 / 5
- AGR 4455: Bit socket wrench insert TX with drilled hole TX 10 / 15 / 20 / 25 / 27 / 30 / 40
- AGR 4462: Bit socket wrench inserts-multitooth M5 / M6 / M8

Art. No. 4415 12 25:

- 25-part in VAROsoft tool deposit Art. No. 9026 71
- Art. No. 4401 12 36: 1/2" lever switch ratchet 250 mm
- Art. No. 4420 125: 1/2" extension square 125 mm
- Art. No. 4420 250: 1/2" extension square 250 mm
- Art. No. 4407 12: 1/2" articulation piece 67 mm
- Art. No. 4402 12: 1/2" cross slide handle 300 mm
- AGR 4427: Hex socket wrench inserts SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 24 / 27 / 30 / 32 / 34

Art. No. 4430 58:

- 58-part in VAROsoft system insert Art. No. 9026 76
- 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 face drilling TX 20/25/27/30/40/45/50/55/60

- AGR 4322: Internal serration bit, short XZN 5/6/8/10/12
- AGR 4322: Internal serration 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: Recessed bit, short PH 2/3
- Art. No. 4361 12 10: 1/2" Bit adapter 10 mm
- Art. No. 4401 10: 10 mm bit ratchet, length 112 mm

Art. No. 4628V 91:

- 12-part in VAROsoft system insert Art. No. 9026 61
- AGR 4628: ring spanner SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19

Art. No. 4586V 7:

- 7-part in VAROsoft system insert Art. No. 9026 87
- AGR 4586: mini ring spanner set SW 10 / 11 / 12 / 13 / 14 / 17 / 19

Art. No. 4708V 090:

- 5-part in VAROsoft system insert Art. No. 9026 85
- AGR 4708: pin punch 3 / 4 / 5 / 6 / 8

Art. No. 4159 20:

- 9-part in VAROsoft system insert Art. No. 9026 60
- Hex-Plus-spanner set

Art. No. 9026 60:

- VAROsoft system insert, empty

Art. No. 4652V 03:

- 3-part in VAROsoft system insert Art. No. 9026 67
- Art. No. 4650 250: Knipex Cobra water pump pliers 250 mm FÖRCH 5*
- Art. No. 4720 400: Engineer's hammer 400 g FÖRCH 5*
- Art. No. 4715 2: Pocket rule 2 m

Art. No. 4099V 03:

- 3-part in VAROsoft system insert Art. No. 9026 66
- Art. No. 4010 160: side cutter 160 mm
- Art. No. 4000 160: combi pliers 160 mm
- Art. No. 4030 200: flat-nosed pliers, straight 200 mm

Art. No. 4202V 90:

- 7-part in VAROsoft system insert Art. No. 9026 613
- AGR 4202: MK screwdriver LS 0.7 x 3.5 / 0.8 x 4.5 / 1.0 x 5.5 / 1.2 x 7.0
- AGR 4202: MK-PH screwdriver PH 1, PH 2
- Art. No. 4202 14 4: 1/4" square T-handle ratchet

Article No.	Article Description	QTY
4990 7	TOOL-KIT PROFI 186 PART	1

Tool Trolley 861 STRONG with 186 Pce. Tool Kit

- Assembled
- Application example for the VAROsoft system insert in the drawer of the tool trolley 861



VAROsoft A+	VAROsoft D	VAROsoft D	VAROsoft D	
	VAROsoft A	VAROsoft B	VAROsoft C	VAROsoft C
		VAROsoft B	VAROsoft C	VAROsoft C

Article No.	Article Description	QTY
4990 861 186	T.T.861 BU/ANTR.W.T.KIT 186PCE	1
4990 861 186 1	T.T.861 RD/ANTR.W.T.KIT 186PCE	1
4990 861 186 2	T.T.861 BK/ANTR.W.T.KIT 186PCE	1
4990 861 186 0	T.T.861 BLUE W.TOOL KIT 186PCE	1
4990 861 186 10	T.T.861 RED W.TOOL KIT 186PCE	1
4990 861 186 20	T.T.861 BLACK W.T.KIT 186PCE	1



Tool Kit 260 Pcs.

4430 58
A+4415 12 21 1
A+4715 160
4708 30
A+4571 12 90
4x D4159 20
4940 1
4x D4584V 5
A+4099V 04 5
A+4415 38 19
A4415 14 33
A4413V 007
A4413V 010
A4457V 013
A4452V 014
A4580V 010
2x A4584V 013
A4209V 1
A4259V 1
A4628V 91
A4652V 03 5
A4751 95
A4670 2
4670 12
A

Distribution VS system:

- 2x VAROsoft system insert 4x D, (W x D): 576 x 77 mm
- 4x VAROsoft system insert A+, (W x D): 144 x 405 mm
- 16x VAROsoft system insert A, (W x D): 144 x 328 mm
- 8x VAROsoft system insert D, (W x D): 144 x 77 mm

Art. No. 4430 58:

- 57-piece in VAROsoft system insert Art. No. 9026 76
- 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 face hole TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60
- AGR 4322: Internal serration bit long XZN 6 / 8 / 10 / 12
- AGR 4322: Internal serration bit short XZN 5 / 6 / 8 / 10 / 12
- AGR 4323: Internal serration bit long SW 5 / 6 / 7 / 8 / 10
- AGR 4323: Internal serration bit short SW 4 / 5 / 6 / 7 / 8 / 10 / 12
- AGR 4324: Slot bit short LS 8 / 10
- AGR 4325: Recessed head bit short PH 2 / 3
- Art. No. 4361 12 10: 1/2" bit adapter 10 mm
- Art. No. 4401 10: 10 mm bit ratchet length 112 mm

Art. No. 4415 38 19:

- 19-piece in VAROsoft system insert Art. No. 9026 633
- Art. No. 4401 38 30 50: 3/8" lever wrench 30 Z. FÖRCH 5*
- Art. No. 4407 38 50: 3/8" joint piece FÖRCH 5*, 50 mm
- Art. No. 4419 125 50: 3/8" extension 4-edge FÖRCH 5*, 125 mm
- Art. No. 4419250 50: 3/8" extension 4-edge FÖRCH 5*, 250mm
- AGR 4426... 50: 3/8" socket wrenches FÖRCH 5*, 29 mm SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21 / 22 / 24

Art. No. 4415 14 33:

- 33-piece in VAROsoft system insert Art. No. 9026 632
- Art. No. 4401 14 20 50: 1/4" lever wrench 20 Z. FÖRCH 5*
- Art. No. 4418 75 50: 1/4" extension 4-edge FÖRCH 5*, 75 mm
- Art. No. 4418150 50: 1/4" extension 4-edge FÖRCH 5*, 150 mm
- Art. No. 4407 14 50: 1/4" joint piece FÖRCH 5*, 35 mm
- AGR 4471...50: 1/4" LS impact wrench FÖRCH 5* 3.5 / 5.5
- AGR 4470...50: 1/4" PH-impact wrench FÖRCH 5* 1/2
- AGR 4455...50: 1/4" TX-impact wrenches FÖRCH5* 8 / 9 / 10 / 15 / 20 / 25 / 27 / 30 / 40
- AGR 4450...50: 1/4" interior 6-edge-impact wrenches FÖRCH 5* 3 / 4 / 5 / 6 / 8
- AGR 4425...50: 1/4" 6-edge impact wrenches FÖRCH 5*, 23 mm SW 4 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13

Art. No. 4415 12 21 1:

- 21-piece in VAROsoft system insert Art. No. 9026 729
- Art. No. 4401 12 32 50: 1/2" lever wrench 32 Z. FÖRCH 5*
- Art. No. 4407 12 50: 1/2" joint piece 69 mm, FÖRCH 5*
- Art. No. 4420 125 50 1/2" extension 4-edge 125 mm, FÖRCH 5*
- Art. No. 4420 250 50 1/2" extension 4-edge 250 mm, FÖRCH 5*
- AGR 4427... 50 1/2" 6-edge impact wrenches 37 mm, FÖRCH 5* SW 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 24 / 27 / 30 / 32

Art. No. 4571 12 90:

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

Art. No. 4413V 007:

- 7-piece in VAROsoft system insert Art. No. 9026 621
- each 1x AGR 4413 socket wrench 1/2" SW 20 / 21 / 22 / 24 / 27 / 30 / 32

Art. No. 4413V 010:

- 10-piece in VAROsoft system insert Art. No. 9026 628
- each 1x AGR 4413 socket wrench 1/2" SW 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19

Art. No. 4457V 013:

- 13-piece in VAROsoftsystem Art. No. 9026 623
- AGR 4457: TX 1/2" short: TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60
- AGR 4457: TX 1/2" long: TX 40 / 45 / 50 / 60

Art. No. 4452V 014:

- 14-piece in VAROsoft system insert Art. No. 9026 622
- AGR 4452: I-6 edge 1/2" short: 5 / 6 / 7 / 8 / 10 / 12 / 14 / 17 / 19
- AGR 4452: I-6 edge 1/2" long: 5 / 6 / 7 / 8 / 10

Art. No. 4580V 010:

- 10-piece in VAROsoft system insert Art. No. 9026 111
- AGR 4580: open-end wrench 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. 4584V 013:

- 13-piece in VAROsoft system insert Art. No. 9026 631
- AGR 4584: angled combination wrench SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21

Art. No. 4584V 5:

- 5-piece in VAROsoft system insert Art. No. 9026 720

(Continued on next page)

- AGR 4584: angled combination wrench SW 22 / 24 / 27 / 30 / 32
- Art. No. 4159 20:**
- Hex-Plus Allen wrench set
- 9-piece
- With spherical head SW 1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10
- Art. No. 4940 1:**
- Steel brake calliper brushes
- To clean brake callipers made from cast steel
- Art. No. 4209V 1:**
- 6-piece in VAROsoft system insert Art. No. 9026 62
- AGR 4200: MK screwdriver DG. KL. LS 3.5 / 4.5 / 5.5 / 7
- AGR 4205: MK screwdriver DG. KL. PH 1/2
- Art. No. 4259V 1:**
- 6-piece in VAROsoft system insert Art. No. 9026 62
- each 1x TX 10 / 15 / 20 / 25 / 30 / 40
- Art. No. 4628V 91:**
- 12-piece in VAROsoft system insert Art. No. 9026 61
- each 1x SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19
- Art. No. 4715 160:**
- In plastic case
- Pocket calliper gauge 150 mm
- Art. No. 4708 30:**
- 6-piece in stand

- Each 1x AGR 4708: pin punch, 150 mm Ø 2 / 3 / 4 / 5 / 6 / 8 mm
- Art. No. 4099V 04 5:**
- 4-piece in VAROsoft system insert Art. No. 9026 724 1
- Art. No. 4000 180: Universal pliers 180 mm
- Art. No. 4010 180: Wire cutter 180 mm
- Art. No. 4030 200: Round-nose pliers straight 200 mm
- Art. No. 4040 200: Round-nose pliers bent 200 mm
- Art. No. 4652V 03 5:**
- 3-piece in VAROsoft system insert Art. No. 9026 67 1
- Art. No. 4650 250: Knipex Cobra water pump pliers 250 mm
- Art. No. 4720 400: Machinist's hammer 400 g FÖRCH 5*
- Art. No. 4715 2: Pocket rule 2 m
- Art. No. 4751 95:**
- 5-piece in VAROsoft system insert Art. No. 9026 612
- Art. No. 4751 21: Stainless steel pliers 60 x 20 x 1.2 x 190 mm
- Art. No. 4751 22: Stainless steel pliers 60 x 20 x 2.5 x 190 mm
- Art. No. 4751 23: Stainless steel pliers 100 x 32 x 1.2 x 230 mm
- Art. No. 4751 24: Stainless steel pliers 100 x 32 x 2.5 x 230 mm
- Art. No. 4751 25: ASK stainless steel cutter 210 mm
- Art. No. 4670 2:**
- 1x long-nose grip pliers 6LN 150 mm
- Art. No. 4670 12:**
- 1x long-nose grip pliers 10WR 220 mm

Article No.	Article Description	QTY
4990 260	TOOL KIT SET 260 PIECES	1

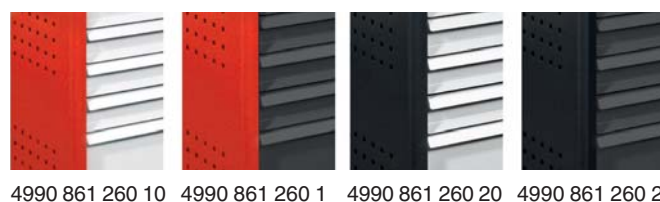
Tool Trolley 861 STRONG with 260 Pce. Tool Kit

- Assembled
- Example for use of the VAROsoft system insert in the drawer of the tool trolley 861

VAROsoft A+	VAROsoft D	VAROsoft D	VAROsoft D
	VAROsoft A	VAROsoft B	VAROsoft C
		VAROsoft B	VAROsoft C
		VAROsoft C	VAROsoft C



Article No.	Article Description	QTY
4990 861 260	T.T.861 BU/ANTR.W.T.KIT 260PCE	1
4990 861 260 1	T.T.861 RD/ANTR.W.T.KIT 260PCE	1
4990 861 260 2	T.T.861 BK/ANTR.W.T.KIT 260PCE	1
4990 861 260 0	T.T.861 BLUE W.TOOL KIT 260PCE	1
4990 861 260 10	T.T.861 RED W.TOOL KIT 260PCE	1
4990 861 260 20	T.T.861 BLACK W.T.KIT 260PCE	1



Tool Kit 194-part **FÖRCH*******



4990 179 40 1 / 4990 861 40 1



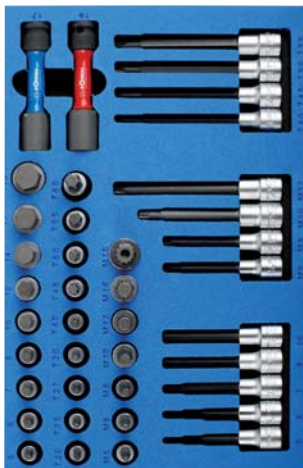
4990 179 40 2 / 4990 861 40 2



4990 179 40 3 / 4990 861 40 3



4990 179 40 4 / 4990 861 40 4



4990 179 40 5 / 4990 861 40 5



4990 179 40 6 / 4990 861 40 6



4990 179 40 7 / 4990 861 40 7



4990 179 40 8 / 4990 861 40 8

Art. No. 4990 179 40 1:

- In VAROsoft system insert Art. No. 9026 179 1 1
- 20 pieces

Contents:

Article No.	Article Description	Quantity
4159 20	HEX-PLUS BP ALLEN KEY SET 9-PA	1
4200 35	MC-SCREWDRIV.PASS.BL. 3.5 5*	1
4200 45	MC-SCREWDRIV.PASS.BL.4.5 5*	1
4200 55	MC-SCREWDRIV.PASS.BL.5.5 5*	1
4200 7	MC-SCREWDRIV.PASS.BL.7 5*	1
4200 10	MC-SCREWDRIV.PASS.BL.10 5*	1
4201 1	MC SCREWDR.PH 1 PASS BLADE 5*	1
4201 2	MC SCREWDR.PH 2 PASS BLADE 5*	1
4201 3	MC SCREWDR.PH 3 PASS.BLADE 5*	1
4223 25	SCREWDRIVER STANDARD LS 2.5	1
4224 55	SCREWDRIVER SHORT 5.5	1
4226 2	PH-SCREWDRIVER SHORT 2	1

Art. No. 4990 179 40 2:

- In VAROsoft system insert Art. No. 9026 179 1 2
- 18 pieces

Contents:

Article No.	Article Description	Quantity
3295 6 50	SCR.DRIVER HEX FLEX.W.AF6 5*	1
3295 7 50	SCR.DRI.6-EDGE FLEX.W.AF7 5*	1
3295 8 50	SCR.DRIVER HEX FLEX.W.AF8 5*	1
4149 5	BALLPOINT-TX-ALLEN WR.CLIP 9P	1
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

Art. No. 4990 179 40 3:

- In VAROsoft system insert Art. No. 9026 179 1 3
- 23 pieces

Contents:

Article No.	Article Description	Quantity
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 14 15	DOUBLE RING SPANN.OFFSET 14X15	1
4582 16 17	DOUBLE RING SPANN.OFFSET 16X17	1
4582 18 19	DOUBLE RING SPANN.OFFSET 18X19	1
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 21	COMBINATION SPANNER ANGLED 21	1
4920 50	UNION NUT SPANNER W.PLATE10X11	1

(Continued on next page)

Tool Kit 194-part **FÖRCH*******

Art. No. 4990 179 40 4:

• In VAROsoft system insert Art. No. 9026 179 1 4

• 8 pieces

Contents:

Article No.	Article Description	Quantity
4582 20 22	DOUBLE RING SPANN.OFFSET 20X22	1
4582 24 27	DOUBLE RING SPANN.OFFSET 24X27	1
4582 30 32	DOUBLE RING SPANN.OFFSET 30X32	1
4584 22	COMBINATION SPANNER ANGLED 22	1
4584 24	COMBINATION SPANNER ANGLED 24	1
4584 27	COMBINATION SPANNER ANGLED 27	1
4584 30	COMBINATION SPANNER ANGLED 30	1
4584 32	COMBINATION SPANNER ANGLED 32	1

Art. No. 4990 179 40 5:

• In VAROsoft system insert Art. No. 9026 179 1 5

• 38 pieces

Contents:

Article No.	Article Description	Quantity
4452 5 50	1/2"HEX SCREWDR. BIT 5 50MM 5*	1
4452 5 100 50	1/2"HEX SCREWDR. BIT 5 100MM 5*	1
4452 6 50	1/2"HEX SCREWDR. BIT 6 50MM 5*	1
4452 6 100 50	1/2"HEX SCREWDR. BIT6 100MM 5*	1
4452 7 50	1/2"HEX SCREWDR. BIT 7 50MM 5*	1
4452 7 100 50	1/2"HEX SCREWDR. BIT7 100MM 5*	1
4452 8 50	1/2"HEX SCREWDR. BIT 8 50MM 5*	1
4452 8 100 50	1/2"HEX SCREWDR. BIT8 100MM 5*	1
4452 10 50	1/2"HEX SCREWDR. BIT10 50MM 5*	1
4452 10 100 50	1/2"HEX SCREWDR. BIT10 100MM5*	1
4452 12 50	1/2"HEX SCREWDR. BIT12 50MM 5*	1
4452 14 50	1/2"HEX SCREWDR. BIT14 50MM 5*	1
4452 17 50	1/2"HEX SCREWDR. BIT17 50MM 5*	1
4452 19 50	1/2"HEX SCREWDR. BIT19 50MM 5*	1
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
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
4571 12 17 50	1/2"KRAF-SO.WR.SW17 BLU110MM5*	1
4571 12 19 50	1/2"KRAF-SO.WR.SW19 RED110MM5*	1

Art. No. 4990 179 40 7:

• In VAROsoft system insert Art. No. 9026 179 1 7

• 11 pieces

Contents:

Article No.	Article Description	Quantity
4701 13	FLAT CHISEL DIN 6453 13X150MM	1
4703 6	WEDGE CHISEL DIN 6451 6X150MM	1
4704 10	CENTRE PUNCH DIN 7250 120X10MM	1
4708 02 1	PIN PUNCH W.HAND PROTEC.2MM 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
4762 9 1	CUTTING KNIFE 9MM W.CL.WHEEL	1
4720 5 800	ENGINEER HAMMER DIN 800G 5*	1
4720 5 400	ENGINEER HAMMER DIN 400G 5*	1

Art. No. 4990 179 40 6:

• In VAROsoft system insert Art. No. 9026 179 1 6

• 67 pieces

Contents:

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

Contents:

Article No.	Article Description	Quantity
4401 12 32 50	1/2"REVERSIBLE RATCHET 32T 5*	1
4401 14 20 50	1/4"REVERSIBLE RATCHET 20T 5*	1
4402 14 50	1/4" T-HANDLE 115MM 5*	1
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
4406 125 50	1/2" ANGLE EXTENSION 125MM 5*	1
4406 250 50	1/2" ANGLE EXTENSION 250MM 5*	1
4407 12 50	1/2" ARTICULATION PIECE 5*	1
4407 14 50	1/4" ARTICULATION PIECE 5*	1
4425 4 50	1/4"HEX SOCK.INS.5* SW 4 23MM	1
4425 4 50 50	1/4"HEX SOCK.INS.5* SW 4 50MM	1
4425 5 50	1/4"HEX SOCK.INS.5* SW 5 23MM	1
4425 5 50 50	1/4"HEX SOCK.INS.5* SW 5 50MM	1
4425 6 50	1/4"HEX SOCK.INS.5* SW 6 23MM	1
4425 6 50 50	1/4"HEX SOCK.INS.5* SW 6 50MM	1
4425 7 50	1/4"HEX SOCK.INS.5* SW 7 23MM	1
4425 7 50 50	1/4"HEX SOCK.INS.5* SW 7 50MM	1
4425 8 50	1/4"HEX SOCK.INS.5* SW 8 23MM	1
4425 8 50 50	1/4"HEX SOCK.INS.5* SW 8 50MM	1
4425 9 50	1/4"HEX SOCK.INS.5* SW 9 23MM	1
4425 9 50 50	1/4"HEX SOCK.INS.5* SW 9 50MM	1
4425 10 50	1/4"HEX SOCK.INS.5* SW10 23MM	1
4425 10 50 50	1/4"HEX SOCK.INS.5* SW10 50MM	1
4425 11 50	1/4"HEX SOCK.INS.5* SW11 23MM	1
4425 11 50 50	1/4"HEX SOCK.INS.5* SW11 50MM	1
4425 12 50	1/4"HEX SOCK.INS.5* SW12 23MM	1
4425 12 50 50	1/4"HEX SOCK.INS.5* SW12 50MM	1
4425 13 50	1/4"HEX SOCK.INS.5* SW13 23MM	1
4425 13 50 50	1/4"HEX SOCK.INS.5* SW13 50MM	1
4427 10 50	1/2"HEX SO.WR.INS.5* SW10 37MM	1
4427 11 50	1/2"HEX SO.WR.INS.5* SW11 37MM	1
4427 12 50	1/2"HEX SO.WR.INS.5* SW12 37MM	1
4427 13 50	1/2"HEX SO.WR.INS.5* SW13 37MM	1
4427 14 50	1/2"HEX SO.WR.INS.5* SW14 37MM	1
4427 15 50	1/2"HEX SO.WR.INS.5* SW15 37MM	1
4427 16 50	1/2"HEX SO.WR.INS.5* SW16 37MM	1
4427 17 50	1/2"HEX SO.WR.INS.5* SW17 37MM	1
4427 18 50	1/2"HEX SO.WR.INS.5* SW18 37MM	1
4427 19 50	1/2"HEX SO.WR.INS.5* SW19 37MM	1
4427 20 50	1/2"HEX SO.WR.INS.5* SW20 37MM	1
4427 21 50	1/2"HEX SO.WR.INS.5* SW21 37MM	1
4427 22 50	1/2"HEX SO.WR.INS.5* SW22 37MM	1
4427 24 50	1/2"HEX SO.WR.INS.5* SW24 37MM	1
4427 27 50	1/2"HEX SO.WR.INS.5* SW27 40MM	1
4427 30 50	1/2"HEX SO.WR.INS.5* SW30 42MM	1
4427 32 50	1/2"HEX SO.WR.INS.5* SW32 42MM	1
4450 3 25 50	1/4"HEX.SCREW.DR.BIT 3 25MM 5*	1
4450 4 25 50	1/4"HEX SCREW.DR.BIT 4 25MM 5*	1
4450 5 25 50	1/4"HEX SCREW.DR.BIT 5 25MM 5*	1
4450 6 25 50	1/4"HEX SCREW.DR.BIT 6 25MM 5*	1
4450 7 25 50	1/4"HEX SCREW.DR.BIT 7 25MM 5*	1
4450 8 25 50	1/4"HEX SCREW.DR.BIT 8 25MM 5*	1
4450 10 25 50	1/4"HEX SCREW.DR.BIT10 25MM 5*	1
4455 10 28 50	1/4"TX-SCREWDRIV.BIT10 28MM 5*	1
4455 15 28 50	1/4"TX-SCREWDRIV.BIT15 28MM 5*	1
4455 20 28 50	1/4"TX-SCREWDRIV.BIT20 28MM 5*	1
4455 25 28 50	1/4"TX-SCREWDRIV.BIT25 28MM 5*	1
4455 27 28 50	1/4"TX-SCREWDRIV.BIT27 28MM 5*	1
4455 30 28 50	1/4"TX-SCREWDRIV.BIT30 28MM 5*	1
4455 40 28 50	1/4"TX-SCREWDRIV.BIT40 28MM 5*	1
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
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

Art. No. 4990 179 40 8:

• In VAROsoft system insert Art. No. 9026 179 1 8

• 7 pieces

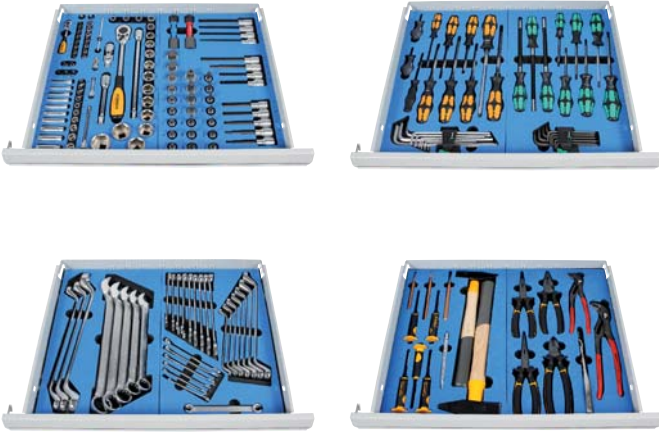
Contents:

Article 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
4650 180	KNIP.COBRA WAPO.PLIERS180MM 5*	1
4650 250	KNIP.COBRA WAPO.PLIERS250MM 5*	1
4920 11 1	SPRING WIRE-CLAMP PLIERS	1

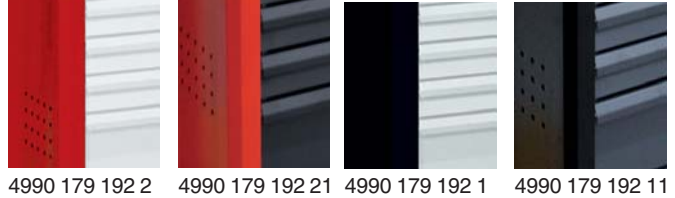
Article No.	Article Description	QTY
4990 179 40	TOOL KIT 194-PART 5*	1
4990 861 40	TOOL KIT/194-PART FOR 861 5*	1

Tool Trolley 179 with 194 Pce. Tool Kit

- Assembled
- In 2 coloured VAROsoft system insert

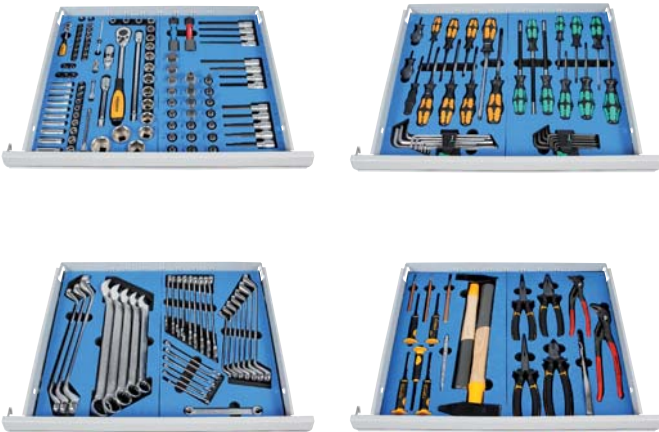


Article No.	Article Description	QTY
4990 179 192	T.T.179BLUE W.T.KIT 194PCE 5*	1
4990 179 192 01	T.T.179BU/A W.T.KIT 194PCE 5*	1
4990 179 192 1	T.T.179 BK W.T.KIT 194PCE 5*	1
4990 179 192 11	T.T.179BK/A./W.T.KIT 194PCE 5*	1
4990 179 192 2	T.T.179 RED W.T.KIT 194PCE 5*	1
4990 179 192 21	T.T.179RD/A. W.T.KIT 194PCE 5*	1



Tool Trolley 861 STRONG with Tool Kit 194 Pce.

- Assembled
- In 2 coloured VAROsoft system inlay



Article No.	Article Description	QTY
4990 861 192	T.TR.861 BL W.T.KIT 194PCE 5*	1
4990 861 192 01	T.TR.861 BL W.T.KIT 194PCE 5*	1
4990 861 192 1	T.TR.861 BK W.T.KIT 194PCE 5*	1
4990 861 192 11	T.TR.861 BK W.T.KIT 194PCE 5*	1
4990 861 192 2	T.TR.861 RED W.T.KIT 194PCE 5*	1
4990 861 192 21	T.TR.861 RED W.T.KIT 194PCE 5*	1

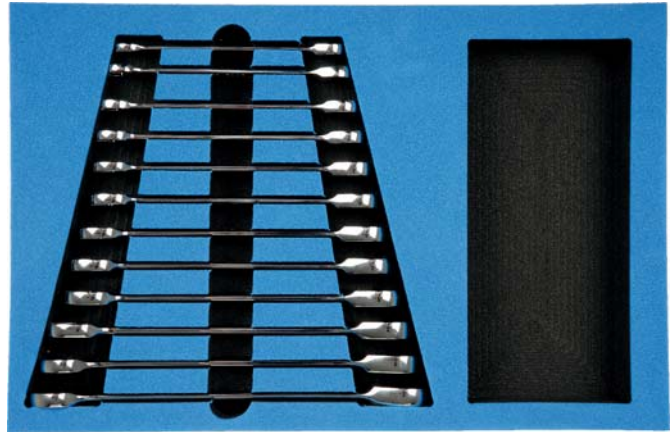


Tool Kit 12-part

- As a possible supplement for tool kit 192 pce.
- In VAROsoft system insert Art. No. 9026 179 1 10 / 9026 861 1 10

Contents:

Article No.	Article Description	Quantity
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



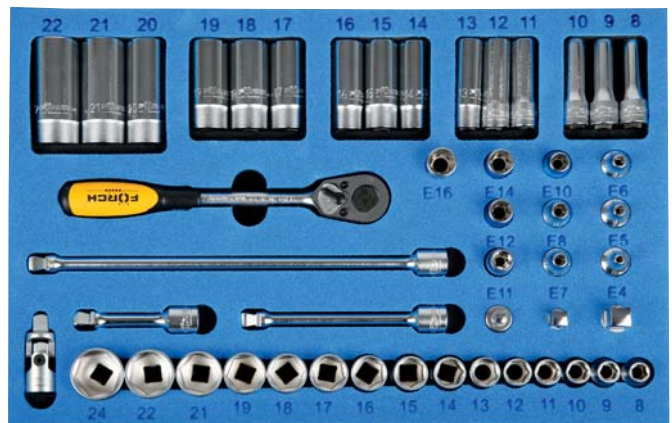
Article No.	Article Description	QTY
4990 179 40 10	TOOL KIT 12-PART	1
4990 861 40 10	TOOL KIT 12-PART FOR 861	1

Tool Kit 3/8“, 48-part

- As a possible supplement for tool kit 192 pce.
- in VAROsoft system insert Art. No. 9026 179 19

Contents:

Article No.	Article Description	Quantity
4401 38 30 50	3/8"REVERSIBLE RATCHET 30T 5*	1
4405 75 50	3/8" ANGLE EXTENSION 75MM5*	1
4405 125 50	3/8" ANGLE EXTENSION 125MM 5*	1
4405 250 50	3/8" ANGLE EXTENSION 250MM 5*	1
4407 38 50	3/8" ARTICULATION PIECE 5*	1
4424 14 38 50	1/4-3/8"ADAPT.SOCKET WR INS 5*	1
4424 38 12 50	3/8-1/2"ADAPT.SOCKET WR INS 5*	1
4424 38 14 50	3/8-1/4"ADAPT.SOCKET WR INS 5*	1
4426 8 50	3/8"HEX SOCK.INS.SW 8 29MM 5*	1
4426 9 50	3/8"HEX SOCK.INS. SW 9 29MM 5*	1
4426 10 50	3/8"HEX SOCK.INS. SW10 29MM 5*	1
4426 11 50	3/8"HEX SOCK.INS. SW11 29MM 5*	1
4426 12 50	3/8"HEX SOCK.INS.SW12 29MM 5*	1
4426 13 50	3/8"HEX SOCK.INS. SW13 29MM 5*	1
4426 14 50	3/8"HEX SOCK.INS. SW14 29MM 5*	1
4426 15 50	3/8"HEX SOCK.INS. SW15 29MM 5*	1
4426 16 50	3/8"HEX SOCK.INS. SW16 30MM 5*	1
4426 17 50	3/8"HEX SOCK.INS. SW17 30MM 5*	1
4426 18 50	3/8"HEX SOCK.INS. SW18 30MM 5*	1
4426 19 50	3/8"HEX SOCK.INS. SW19 30MM 5*	1
4426 21 50	3/8"HEX SOCK.INS. SW21 30MM 5*	1
4426 22 50	3/8"HEX SOCK.INS. SW22 30MM 5*	1
4426 24 50	3/8"HEX SOCK.INS. SW24 32MM 5*	1
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
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



Article No.	Article Description	QTY
4990 179 40 9	TOOL KIT 3/8" 48-PART 5*	1

Tool Kit 3/8“, 54-pce. **FÜRCH*******

Art. No. 4990 179 40 11 / 4990 861 40 11:

- in VAROsoft system tray Art. No. 9026 179 1 11 / 9026 861 1 11
- 54 pieces

Contents:

Article No.	Article Description	Quantity
4401 38 30 50	3/8"REVERSIBLE RATCHET 30T 5*	1
4405 75 50	3/8" ANGLE EXTENSION 75MM5*	1
4405 125 50	3/8" ANGLE EXTENSION 125MM 5*	1
4405 250 50	3/8" ANGLE EXTENSION 250MM 5*	1
4407 38 50	3/8" ARTICULATION PIECE 5*	1
4426 8 50	3/8"HEX SOCK.INS.SW 8 29MM 5*	1
4426 9 50	3/8"HEX SOCK.INS. SW 9 29MM 5*	1
4426 10 50	3/8"HEX SOCK.INS. SW10 29MM 5*	1
4426 11 50	3/8"HEX SOCK.INS. SW11 29MM 5*	1
4426 12 50	3/8"HEX SOCK.INS.SW12 29MM 5*	1
4426 13 50	3/8"HEX SOCK.INS. SW13 29MM 5*	1
4426 14 50	3/8"HEX SOCK.INS. SW14 29MM 5*	1
4426 15 50	3/8"HEX SOCK.INS. SW15 29MM 5*	1
4426 16 50	3/8"HEX SOCK.INS. SW16 30MM 5*	1
4426 17 50	3/8"HEX SOCK.INS. SW17 30MM 5*	1
4426 18 50	3/8"HEX SOCK.INS. SW18 30MM 5*	1
4426 19 50	3/8"HEX SOCK.INS. SW19 30MM 5*	1
4426 21 50	3/8"HEX SOCK.INS. SW21 30MM 5*	1
4426 22 50	3/8"HEX SOCK.INS. SW22 30MM 5*	1
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
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.A.KEY 10 38MM5*	1
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
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



Article No.	Article Description	QTY
4990 179 40 11	TOOL KIT 3/8" 54PIECE 5*	1
4990 861 40 11	TOOL KIT 3/8" 54PIECE F861 5*	1

Tool Kit 223 Pieces **FÖRCH*******



4415 12 21 1 A+ 4430 58 A+ 4584V 5 A+ 5509 5501 9026 70 A+ 4582V 003 A+ 4749V 1 A+ 4715 160 4715 2 9026 70 A+ 4099V 04 5 A+ 4751 1 9026 701 1/2 A+ 4200 10 4201 3 9026 701 1/2 A+ 5422 40 1 4681 220 9026 701 1/2 A+ 5850 5 9026 701 1/2 A+ 4159 20 9026 701 1/2 A+



4209V 1 A 4415 14 33 A 4584V 013 A 4582V 007 A 4652V 02 A 4580V 010 2x A 4708V 091 B 4923 20 9026 90 D



4708 092
4720 5 800
4726 40
4720 5 400
4701 26
4703 6

Distribution of VAROsoft system inserts:

- 8x VS-system insert A+, (W x D): 144 x 405 mm
- 5x VS-system insert 1/2 A+, (W x D): 72 x 405 mm
- 5x VS-system insert A, (W x D): 144 x 328 mm
- 1x VS-system insert B, (W x D): 144 x 164 mm
- 7x VS-system insert D, (W x D): 144 x 77 mm

Art. No. 4415 14 33:

- 33-part in VAROsoft system insert Art. No. 9026 632
- Art. No. 4401 14 20 50: 1/4 „ lever switch ratchet 20 teeth FÖRCH 5*
- Art. No. 4418 75 50: 1/4" square extension FÖRCH 5*, 75 mm
- Art. No. 4418 150 50: 1/4" square extension FÖRCH 5*, 150 mm
- Art. No. 4407 14 50: 1/4" articulation piece FÖRCH 5*, 35 mm
- AGR 4471...50: 1/4" LS socket wrench insert FÖRCH 5* 3.5 / 5.5
- AGR 4470...50: 1/4" PH-socket wrench insert FÖRCH 5* 1 / 2
- AGR 4455...50: 1/4" TX-socket wrench inserts FÖRCH 5* 8 / 9 / 10 / 15 / 20 / 25 / 27 / 30 / 40
- AGR 4450...50: 1/4" hexagon socket wrench inserts FÖRCH 5* 3 / 4 / 5 / 6 / 8
- AGR 4425...50: 1/4" hexagon socket wrench inserts FÖRCH 5*, 23 mm SW 4 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13

Art. No. 4415 12 21 1:

- 21-part in VAROsoft system insert Art. No. 9026 729
- Art. No. 4401 12 32 50: 1/2" lever switch ratchet 32 teeth FÖRCH 5*
- Art. No. 4407 12 50: 1/2" articulation piece FÖRCH 5*, 69 mm
- Art. No. 4420 125 50: 1/2" square extension FÖRCH 5*, 125 mm
- Art. No. 4420 250 50: 1/2" square extension FÖRCH 5*, 250 mm
- AGR 4427... 50: 1/2" hexagon socket wrench inserts FÖRCH 5*, 37 mm SW 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 24 / 27 / 30 / 32

Art. No. 4430 58:

- 57-part in VAROsoft system insert Art. No. 9026 76
- 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 face spanner drilling TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60
- AGR 4322: Internal serration bit-long XZN 6 / 8 / 10 / 12
- AGR 4322: Internal serration bit-short XZN 5 / 6 / 8 / 10 / 12
- AGR 4323: Hexagon bit-long SW 5 / 6 / 7 / 8 / 10
- AGR 4323: Hexagon bit-short SW 4 / 5 / 6 / 7 / 8 / 10 / 12
- AGR 4324: Slotted bit short LS 8 / 10
- AGR 4325: Philips-bit short PH 2 / 3
- Art. No. 4361 12 10: Bit-Adapter 1/2"
- Art. No. 4401 10: 10 mm bit-ratchet length 112 mm

Art. No. 4159 20:

- Hex-Plus-Allen key set 9 pieces
- With ball head SW 1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10

Art. No. 4751 1:

- Sealant scraper 260 x 150 x 23

Art. No. 4652V 02:

- 2 pieces in VAROsoft system insert Art. No. 9026 620
- 4650 180: Knipex Water pump pliers 180 mm 5*
- 4650 300: Knipex Water pump pliers 300 mm 5*

Art. No. 4099V 04 5:

- 4 pieces in VAROsoft system insert Art. No. 9026 724 1
- 4000 180 5: Combi pliers 180 mm FÖRCH 5*
- 4010 180 5: Side cutter 180 mm FÖRCH 5*
- 4030 205 5: Flat-nose pliers straight 205 mm FÖRCH 5*
- 4040 205 5: Flat-nose pliers angled 205 mm FÖRCH 5*

Art. No. 4749V 1:

- 5 pieces in VAROsoft system insert Art. No. 9026 721
- Each 1 flat, round, half-round, three-square and square stroke 2 file

Art. No. 4582V 007:

- 7 pieces in VAROsoft system insert Art. No. 9026 69
- AGR 4582: Double ring spanner cranked SW 6 x 7 / 8 x 9 / 10 x 11

Tool Kit 223 Pieces **FÖRCH*******

/ 12 x 13 / 14 x 15 / 16 x 17 / 18 x 19

Art. No. 5509 5501:

- 19-part in plastic cassette
- Twist drill DIN 338 ground Ø 1.0 – 10 (increments of 0.5 mm)

Art. No. 4200 10:

- M4 screwdriver DG KL 20

Art. No. 4201 3:

- M4 screwdriver DG KL PH3

Art. No. 4209V 1:

- 6 pieces in VAROsoft system insert Art. No. 9026 62
- AGR 4200: MK screwdriver DG. KL. LS 3.5 / 4.5 / 5.5 / 7
- AGR 4205: MK screwdriver DG. KL. PH 1 / 2

Art. No. 4681 220:

- Rabitz pliers DIN 9242, 220 mm

Art. No. 4923 20:

- Feeler gauge 0.05 – 1.00 mm, 20 blades

Art. No. 4582V 003:

- 3 pieces in VAROsoft system insert Art. No. 9026 717
- AGR 4582: Double ring spanner cranked SW 20 x 22 / 24 x 27 / 30 x 32

Art. No. 4584V 013:

- 13 pieces in VAROsoft system insert Art. No. 9026 631
- AGR 4584: Combination wrench angled SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21

Art. No. 4584V 5:

- 5 pieces in VAROsoft system insert Art. No. 9026 720
- AGR 4584: Combination wrench angled SW 22 / 24 / 27 / 30 / 32

Art. No. 4701 26:

- Flat chisel DIN 6453 26 x 250 mm

Art. No. 4703 6:

- Wedge chisel DIN 6451 6 x 150 mm

Art. No. 5850 5:

- Hand wire brush steel 5-row

Art. No. 5422 40 1:

- Spatula 40 mm

Art. No. 4715 160:

- In plastic etui caliper 150 mm

Art. No. 4715 2:

- Pocket rule 2 m

Art. No. 4580V 010:

- 10-part in VAROsoft system insert Art. No. 9026 111
- 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. 4708 092:

- 5-piece AGR 4708: Pin punch XXL Ø 8 / 9 / 10 / 12 / 14 / 16

Art. No. 4708V 091:

- 5-part in VAROsoft system insert Art. No. 9026 818
- AGR 4708: Pin punch FÖRCH 5* Ø 3 / 4 / 5 / 6 / 8 mm

Art. No. 4720 5 400:

- Engineer's hammer in compliance with DIN 400 g 5*

Art. No. 4720 5 800:

- Engineer's hammer in compliance with DIN 800 g 5*

Art. No. 4726 40:

- Soft face hammer recoil-free Ø 40 mm

Art. No. 4990 179 314:

- Shelf divider set for workshop trolley 179

Art. No. 9026 701:

- 5x VAROsoft system insert empty 1/2 A+

Art. No. 9026 70:

- 2x VAROsoft system insert empty A+

Art. No. 9026 90:

- 7x VAROsoft system insert empty D

Article No.	Article Description	QTY
4990 223	TOOL KIT 223-PIECE 5*	1

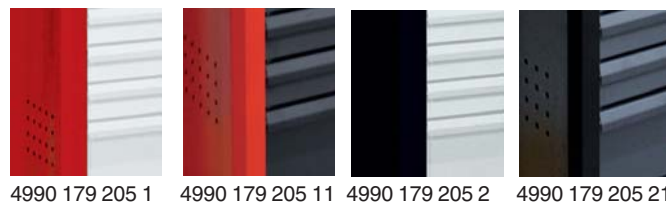
Tool Trolley Mechanic with 223-pcs. Tool Kit **FÖRCH*******

- Assembled
- Application example of VAROsoft-System tray in the drawer of tool trolley mechanic 179

VAROsoft 1/2 A+	VAROsoft A+	VAROsoft D	VAROsoft D
		VAROsoft A	VAROsoft B
			VAROsoft C



Article No.	Article Description	QTY
4990 179 205	T.T.179BLUE W.T-KIT 223PCS 5*	1
4990 179 205 1	T.T.179 RED W.T-KIT 223PCS 5*	1
4990 179 205 2	T.T.179BLACK W.T-KIT 223PCS 5*	1
4990 179 205 01	T.T.179 BL/ANT.W.T.K.223PCE 5*	1
4990 179 205 11	T.T.179 RD/ANT.W.T.K.223PCE 5*	1
4990 179 205 21	T.T.179 BK/ANT.W.T.K.223PCE 5*	1



Tool Kit 238 Pcs.



4415 12 25 A+ 4430 58 A+ 4584V 5 A+ 5509 5501 9026 70 A+ 4582V 003 A+ 4749V 1 A+ 4715 160 4715 2 9026 70 A+ 4099V 04 A+ 4751 1 4751 10 9026 701 1/2 A+ 4200 10 4201 3 9026 701 1/2 A+ 5422 40 1 4681 220 9026 701 1/2 A+ 5850 5 9026 701 1/2 A+ 4159 20 9026 701 1/2 A+



4209V 1 A 4415 14 47 A 4584V 013 A 4582V 007 A 4652V 02 A 4580V 010 2x A 4708V 091 B 4923 20 9026 90 D



4708 092 4720 5 800 4701 26 4703 6 4726 40 4720 5 400

Distribution of VAROsoft system insert:

- 8x VS-system insert A+, (W x D): 144 x 405 mm
- 5x VS-system insert 1/2 A+, (W x D): 72 x 405 mm
- 5x VS-system insert A, (W x D): 144 x 328 mm
- 1x VS-system insert B, (W x D): 144 x 164 mm
- 7x VS-system insert D, (W x D): 144 x 77 mm

Art. No. 4415 14 47:

- 47 pieces in VAROsoft system insert Art. No. 9026 63
- Art. No. 4401 14 36: Reversible ratchet 1/4"
- Art. No. 4403 141: Twist handle
- Art. No. 4402 14: T-handle
- Art. No. 4407 14: Articulation piece
- Art. No. 4418 50: Square extension 50 mm
- Art. No. 4418 125: Square extension 125 mm
- Art. No. 4417 14 150: Square extension flexible 150 mm
- Art. No. 4361 14 64: Plug adapter 1/4" hexagonal 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 / 10 / 11 / 12 / 13
- AGR 4450: Hex bit socket wrench SW 3 / 4 / 5 / 6 / 7 / 8
- AGR 4470: Cross recessed bit socket wrench insert PH 1 / 2 / 3
- AGR 4471: Bit slotted socket wrench insert 4 / 5
- AGR 4455: Bit TX socket wrench insert with drilled head TX 10 / 15 / 20 / 25 / 27 / 30 / 40
- AGR 4462: Bit socket wrench insert - multiple teeth M5 / M6 / M8

Art. No. 4415 12 25:

- 25 pieces in VAROsoft system insert Art. No. 9026 71
- Art. No. 4401 12 36: Reversible ratchet 1/2"
- Art. No. 4420 125: Square extension 125 mm
- Art. No. 4420 250: Square extension 250 mm
- Art. No. 4407 12: Articulation piece
- Art. No. 4402 12: T-handle
- AGR 4427: Hex socket wrench inserts SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 24 / 27 / 30 / 32 / 34

Art. No. 4430 58:

- 57-part in VAROsoft system insert Art. No. 9026 76
- 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 face drilling TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60
- AGR 4322: Internal serration bit long XZN 6 / 8 / 10 / 12
- AGR 4322: Internal serration bit short XZN 5 / 6 / 8 / 10 / 12
- AGR 4323: Hex socket bit long SW 5 / 6 / 7 / 8 / 10
- AGR 4323: Hex socket bit short SW 4 / 5 / 6 / 7 / 8 / 10 / 12
- AGR 4324: Slotted bit short LS 8 / 10
- AGR 4325: Philips bit short PH 2 / 3
- Art. No. 4361 12 10: Bit adapter 1/2"
- Art. No. 4401 10: 10 mm bit ratchet, length 112 mm

Art. No. 4159 20:

- Hex-Plus-Allen wrench set
- 9-piece
- With ball head SW 1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10

Art. No. 4751 1:

- Sealant scraper 260 x 150 x 23

Art. No. 4751 1 0:

- Sealant scraper Mini 140 x 80 x 23

Art. No. 4652V 02:

- 2-part in VAROsoft system insert Art. No. 9026 620
- Art. No. 4650 180: Knipex waterpump pliers 180 mm FÖRCH 5*
- Art. No. 4650 300: Knipex waterpump pliers 300 mm FÖRCH 5*

Art. No. 4099V 04:

- 4-part in VAROsoft system insert, Art. No. 9026 721
- Art. No. 4000 180: Combination pliers 180 mm
- Art. No. 4010 180: Side cutter 180 mm
- Art. No. 4030 200: Flat-nosed pliers straight 200 mm
- Art. No. 4040 200: Flat-nosed pliers angled 200 mm

(Continued on next page)

Tool Kit 238 Pcs.

Art. No. 4749V 1:

- 5-part in VAROsoft system insert Art. No. 9026 721
- 1 file flat, round, half-round, triangle and square stroke 2

Art. No. 4582V 007:

- 7-part in VAROsoft system insert Art. No. 9026 69
- AGR 4582: Offset double-end ring spanner SW 6 x 7 / 8 x 9 / 10 x 11 / 12 x 13 / 14 x 15 / 16 x 17 / 18x 19

Art. No. 5509 5501:

- 19-part in plastic cassette
- Twist drills DIN 338 ground Ø 1.0 - 10 (increments of 0.5 mm)

Art. -o. 4200 10:

- M4 screwdriver DG KL 10

Art. No. 4201 3:

- M4 screwdriver DG KL PH3

Art. No. 4209V 1:

- 6-part in VAROsoft system insert Art. No. 9026 62
- AGR 4200: MK screwdriver DG. KL. LS 3.5 / 4.5 / 5.5 / 7
- AGR 4205: MK screwdriver DG. KL. PH 1 / 2

Art. No. 4681 220:

- Rabbit pliers DIN 9242, 220 mm

Art. No. 4923 20:

- Feeler gauge 0.05 – 1.00 mm 20 sheets

Art. No. 4582V 003:

- 3-part in VAROsoft system insert Art. No. 9026 717
- AGR 4582: Offset double-end ring spanner SW 20 x 22 / 24 x 27 / 30 x 32

Art. No. 4584V 013:

- 13-part in VAROsoft system insert Art. No. 9026 631
- AGR 4584 Angled combination wrench SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21

Art. No. 4584V 5:

- 5-part in VAROsoft system insert Art. No.9026 720
- AGR 4584: Angled combination wrench SW 22 / 24 / 27 / 30 / 32

Art. No. 4701 26:

- Flat chisel DIN 6453 26x250 mm

Art. No. 4703 6:

- Cross chisel DIN 6451 6x150 mm

Art. No. 5850 5:

- Hand wire brush, steel, 5-row

Art. No. 5422 40 1:

- Spatula 40 mm

Art. No. 4715 160:

- In plastic bag - caliper rule 150 mm

Art. No. 4715 2:

- Pocket rule 2 m

Art. No. 4580V 010:

- 10-part in VAROsoft tool deposit Art. No. 9026 111
- AGR 4580: Double-end 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. 4708 092:

- 5-part AGR 4708 Pin punch XXL Ø 8 / 9 / 10 / 12 / 14 / 16

Art. No. 4708V 091:

- 5-part in VAROsoft system insert Art. No. 9026 818
- AGR 4708: Pin punch FÖRCH 5* Ø 3 / 4 / 5 / 6 / 8 mm

Art. No. 4720 5 400:

- Engineer's hammer according to DIN 400 g FÖRCH 5*

Art. No. 4720 5 800:

- Engineer' hammer according to DIN 800 g FÖRCH 5*

Art. No. 4726 40:

- Soft face hammer recoil-free Ø 40 mm

Art. No. 4990 179 314:

- Divider set for workshop trolley 179

Art. No. 9026 701:

- 5x VAROsoft system insert empty 1/2 A+

Art. No. 9026 70:

- 2x VAROsoft system insert empty A+

Art. No. 9026 90:

- 7x VAROsoft system insert empty D

Article No.	Article Description	QTY
4990 237	TOOL KIT SET 238 PIECES	1

Tool Trolley Mechanic with 238 Pcs. Tool Kit

- Assembled
- Application example of VAROsoft-System tray in the drawer of tool trolley mechanic 179

VAROsoft 1/2 A+	VAROsoft A+	VAROsoft D	VAROsoft D
		VAROsoft A	VAROsoft B
			VAROsoft C
			VAROsoft C



4990 179 200



4990 179 200 01

Article No.	Article Description	QTY
4990 179 200	T.TROLLEY179BLUE W.T-KIT238PCS	1
4990 179 200 1	T.TROLLEY179 RED W.T-KIT238PCS	1
4990 179 200 2	T.TROL.179 BLACK.W.T-KIT238PCS	1
4990 179 200 01	T.TROL.179BL/ANT W.T-KIT238PCS	1
4990 179 200 11	TROLLEY 179 RED/ANT W.T-KIT238	1
4990 179 200 21	T.TROL.179BL/ANT.W.T-KIT238PCS	1



4990 179 200 1 4990 179 200 11 4990 179 200 2 4990 179 200 21

VAROsoft System Inserts, Non-Equipped

- FÖRCH ordering concept for more productivity and overview and highest flexibility at the same time

Dimensions:

Art. No. 9026 70:

- H x W x D: 40 x 144 x 405 mm

Art. No. 9026 70 1:

- H x W x D: 40 x 72 x 405 mm

Art. No. 9026 70 2:

- H x W x D: 40 x 89 x 405 mm

- for tool trolley 179 TXXL

Art. No. 9026 70 3:

- H x W x D: 40 x 120 x 405 mm

- for tool trolley 179 XL

- for tool trolley mechanics

Art. No. 9026 60:

- H x W x D: 33 x 144 x 328 mm

Art. No. 9026 80:

- H x W x D: 33 x 144 x 164 mm

Art. No. 9026 101:

- H x W x D: 33 x 72 x 164 mm

Art. No. 9026 90:

- H x W x D: 33 x 144 x 77 mm

Art. No. 9026 200:

- H x W x D: 33 x 576 x 77 mm

VARO sizes for drawers of workshop trolley:

Art. No. 4990 660:

- W x D: 432 x 328 mm

Art. No. 4990 179:

- W x D: 504 x 405 mm

Art. No. 4990 860:

- W x D: 576 x 405 mm

Art. No. 4990 173:

- W x D: 620 x 405 mm

Art. No. 4990 179 5:

- W x D: 694 x 405 mm

Art. No. 4990 179 6:

- W x D: 864 x 405 mm

Art. No. 4990 820:

- W x D: 708 x 405 mm



9026 70



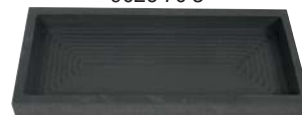
9026 70 1



9026 70 2



9026 70 3



9026 60



9026 80



9026 101



9026 90



9026 200

Article No.	Article Description	QTY
9026 70	TOOL TRAY VS EMPTY A+	1
9026 70 1	TOOL TRAY VS EMPTY 1/2 A+	1
9026 70 2	TOOL TRAY EMPTY B 90MM A+	1
9026 70 3	TOOL TRAY EMPTY B120MM A+	1
9026 60	TOOL TRAY VS EMPTY A	1

Article No.	Article Description	QTY
9026 80	TOOL TRAY VS EMPTY B	1
9026 101	TOOL TRAY VS EMPTY LONGITUD. C	1
9026 90	TOOL TRAY VS EMPTY CROSSWAYS D	1
9026 200	TOOL TRAY VS EMPTY 4XD	1

Drawer Trays for Tool Trolley

- Material strength: 6 mm
- Material: cell rubber
- Prevents slipping of tools

Dimensions:

Art. No. 9026 660 0:

- H x W x D: 6 x 440 x 350 mm

Art. No. 9026 660 1:

- H x W x D: 30 x 16 x 770 mm

- To fill out the gap of the drawer of tool trolley 660

Art. No. 9026 860 0:

- H x W x D: 6 x 575 410 mm

Art. No. 9026 179 0:

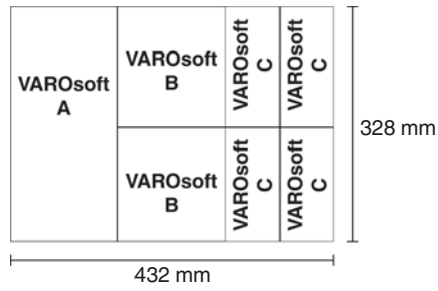
- H x W x D: 6 x 524 x 405 mm

Article No.	Article Description	QTY
9026 660 0	DRAWER TRAY F.TOOL TROLLEY 660	1
9026 660 1	DRAWER TRAY 660 770X30X16MM	1
9026 860 0	DRAWER TRAY F.TOOL TROLLEY 860	1
9026 179 0	DRAWER TRAY F.TOOL TROLLEY 179	1

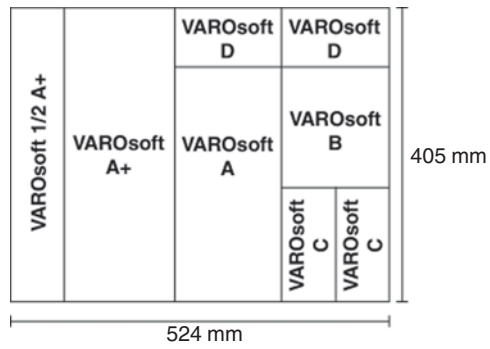


VAROsoft System Inserts, Non-Equipped

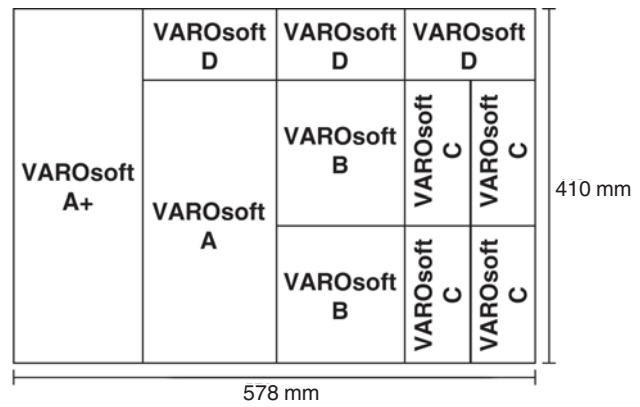
Tool Trolley 661



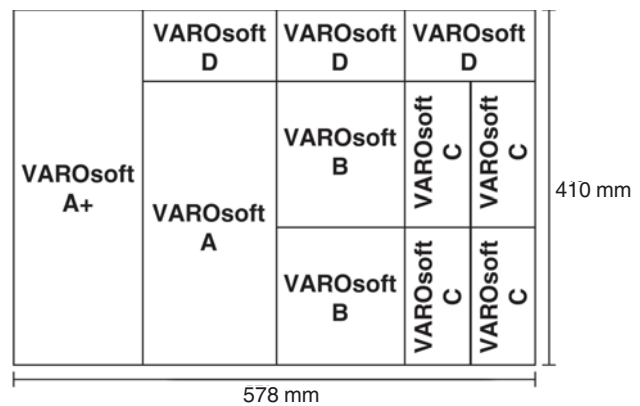
Werkzeugwagen Mechanics



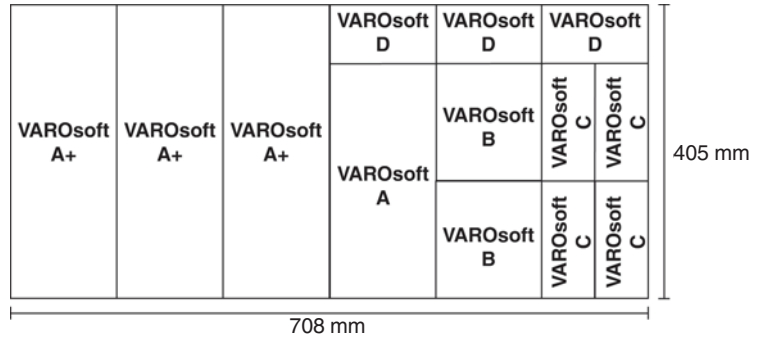
Tool Trolley 861



Tool Trolley 865 **ECO**

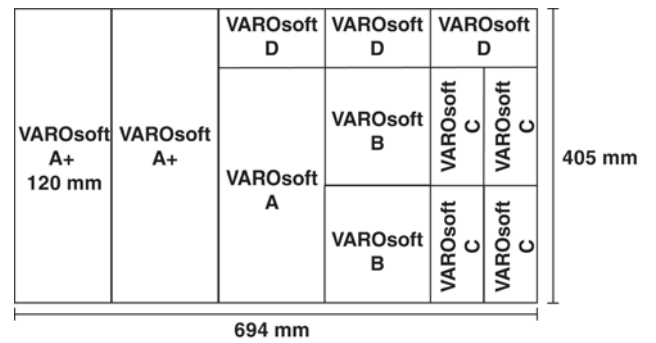


Tool Trolley Mechanics XXL

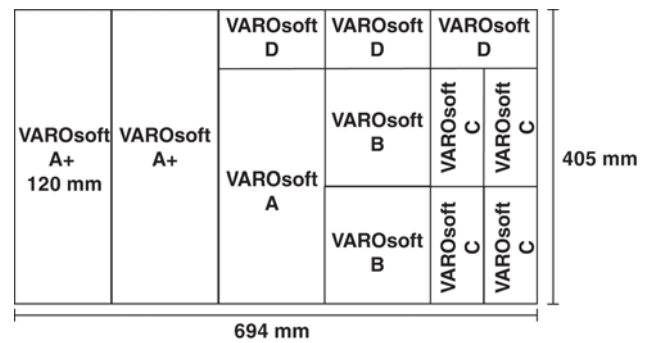


VAROsoft System Inserts, Non-Equipped

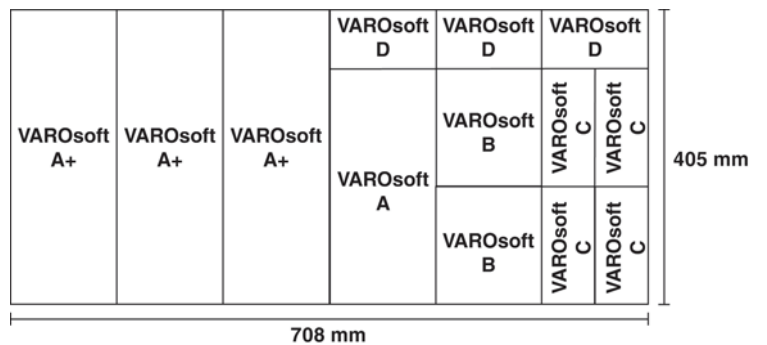
Tool Trolley Mechanics XL



Tool Trolley 179 XL



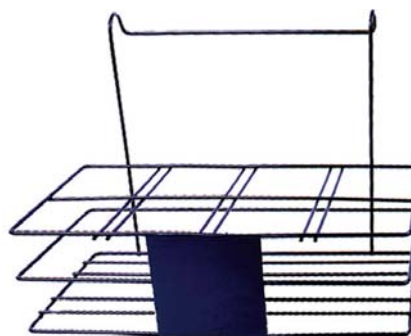
Tool Trolley 179 XXL



Can Holder

- Can be mounted onto the tool trolley
- 8-fold
- Dimensions L x W x H: 345 x 145 x 245 mm
- RAL 5003 blue
- Suitable for PFA-service trolley pro Art. No. 4990 790
- Suitable for tool trolley Art. No. 4990 660

Article No.	Article Description	QTY
4990 8	CAN HOLDER 8-FOLD EMPTY	1



Chemical Storage for Cans

- Perfect addition to tool trolley or hole wall
- Excellent storage options for numerous aerosol cans and litre cans
- Secure storage due to high side walls
- RAL 5003 blue, RAL 7016 anthracite, RAL 7035 light grey
- Dimensions (L x W x H): 300 x 90 x 120 mm
- Suitable for tool trolleys Art. No. 4990 179, Art. No. 4990 660, Art. No. 4990 820, Art. No. 4990 860 / 861



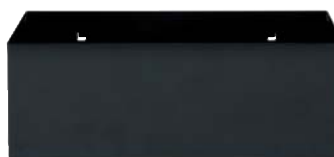
4990 695



4990 695 1



4990 699 1



4990 695 01



4990 695 02

Article No.	Article Description	QTY
4990 695	CHEM.STORAGE F.CANS W/O MAGN.	1
4990 695 01	CHE.STORAGE F.CANS ANTHRACITE	1
4990 695 02	CHE.STORAGE F.CANS LIGHT GREY	1
4990 695 1	CHEM.STORAGE F.CANS WITH MAGN.	1
4990 699 1	POWER MAGNET M6 DXH 66X8.5MM	1

Chemical Can 8-fold

- Perfect compliment to tool trolleys with wall hole
- To hold aerosol cans and chemical products
- With sturdy dividers
- RAL 5003 blue
- Dimensions (L x W x H): 300 x 160 x 120 mm
- Suitable for tool trolleys Art. No. 4990 179, Art. No. 4990 660, Art. No. 4990 860 / 861, Art. No. 4990 820
- Suitable for PFA service trolley pro Art. No. 4990 790

Article No.	Article Description	QTY
4990 695 8	CHEMICAL STORAGE 8-FOLD	1



Storage Compartment for Tool Trolley

- Useful storage for small items, aerosol cans and tools
- RAL 7016 anthracite grey

Art. No. 4990 691:

- Dimensions (L x W x H): 215 x 80 x 60 mm

Art. No. 4990 692:

- Dimensions (L x W x H): 215 x 180 x 60 mm
- Suitable for tool trolleys 4990 179, Art. No. 4990 660, Art. No. 4990 820, Art. No. 4990 860 / 861

Article No.	Article Description	QTY
4990 691	PACKAGE TRAY LXWXH 215X80X60MM	1
4990 692	PACKAGE TRAY LXWXH215X180X60MM	1



4990 691



4990 692

Chemical Box XXL

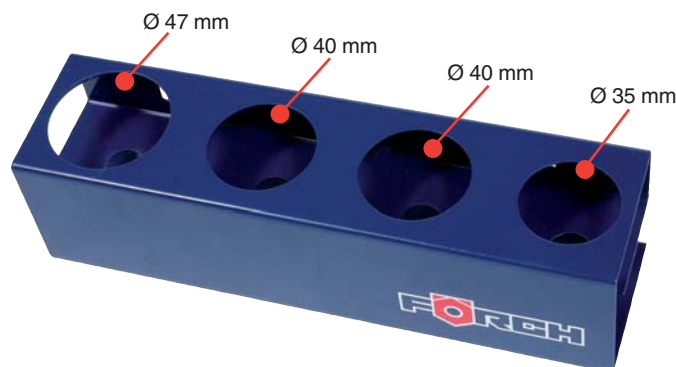
- Perfect addition for tool trolley PFA / painter (Art. No. 4990 740)
- To hold aerosols and chemical products
- Sturdy dividers consisting of 2 slotted walls for longitudinal division and 8 partition plates for transversal division
- With 2 carrying handles
- RAL 5003 blue
- Dimensions (L x W x H): 100 x 400 x 295 mm

Article No.	Article Description	QTY
4990 791	CHEMICAL BOX XXL	1



Holder for Sealing Compound/Adhesive 4-fold

- Ideal for the storage of adhesive and sealant containers with turnable dosing cap system
- RAL 5003 blue
- Dimensions LxWxH: 230 x 60 x 60 mm
- Hole diameter: 1 x 47 mm, 2 x 40 mm, 1 x 35 mm
- Matching the VARO hole wall
- Matching the tool trolley Art. No. 4990 179, Art. No. 4990 660, Art. No. 4990 820, Art. No. 4990 860 / 861



FÖRCH 5-Star Seal- and adhesive compound diameter:

Article-No.	Article Description	d=max
6410 4107	SUPERGLUE K186 5* BO. 5G	35 mm
6410 4108	SUPERGLUE K186 5* BO. 30G	35 mm
6410 4131	SUPERGLUE-CYBERSP.ADH.K187 20G	35 mm
6410 4137	SUPERGLUE BLACK K188 5* 20G	35 mm
6410 4139	SUPERGLUE HIGH VISCOS.K189 30G	35 mm
6420 4000	SCREW LOCK MED. K175 50G 5*	40 mm

6420 4005	SCREW LOCK.HIGH-TENS. K176 50G	40 mm
6420 4018	FL(50G)ASS. SEALING HF K182 5*	40 mm
6480 4519	ENGINE SEAL. GASKET K157 100G	40 mm
6420 4010	TB(50G)PI.THRE.SEAL.MF K177 5*	47 mm
6420 4012	TB(50G)PI.THRE.SEAL.NF K178 5*	47 mm
6480 4520	ORANGE SEAL. COMPOUND MED. 50G	47 mm

Article No.	Article Description	QTY
4990 696	HOLDER FOR SEALING COMPOUND/AD	1

Tool Trolley Attachment Table Foldable

- Additional work space for attaching to the tool trolley in 2 sizes
- Quick and easy installation
- Space-saving: foldable when not in use
- The narrow mounting table for tool trolley Art. No. 4990 861 folds flush when mounted to the rear wall
- Maximum load 30 kg

Work surface extension table for Tool Trolley 660 / 661:

- Narrow extension table: 46 cm x 38 cm
- Broad extendable table: 66 cm x 38 cm

Work surface extension table for Tool Trolley 860 / 861:

- Narrow extension table: 37 cm x 38 cm
- Broad extendable table: 57 cm x 38 cm

Work surface extension table for Tool Trolley 179:

- Narrow extension table: 31 cm x 35 cm
- Broad extendable table: 57 cm x 35 cm

Colour extension tables narrow / wide for Tool Trolley 860 / 861, 179:

- Blue (RAL 5003), red (RAL 2002), black (RAL 9005)

Colour extension tables narrow / wide for Tool Trolley 660 / 661:

- Blue (RAL 5003), red (RAL 2002)



4990 660 44
4990 861 44
4990 179 44



4990 660 43
4990 861 43
4990 179 43



4990 660 44 1
4990 861 44 1
4990 179 44 2



4990 179 43 2



4990 861 44 2

Article No.	Article Description	QTY
4990 660 43	EXT.TABLE BLUE 660/661 SLIM	1
4990 660 44 1	EXT.TABLE RED 660/661 LARGE	1
4990 861 43	EXT.TABLE BLUE 860/861 SLIM	1
4990 861 44	EXT.TABLE BLUE 860/861 LARGE	1
4990 861 44 1	EXT.TABLE RED 860/861 LARGE	1
4990 179 43	EXT.TABLE BLUE 179 SLIM	1
4990 179 44	EXT.TABLE BLUE 179 LARGE	1
4990 179 44 2	EXT.TABLE RED 179 LARGE	1



Rolling Workbench Pro and Upper Part

Equipment of rolling workbench:

- Dimension (H x W x D): 925 x 1200 x 600 mm
- 1 drawer over the total width, load 60 kg, (L x D x H): 999 x 539 x 135 mm
- 2 drawers right, load 35 kg, (L x D x H): 459 x 539 x 90 mm
- 1 drawer right, load 35 kg, (L x D x H): 459 x 539 x 135 mm
- 1 drawer right, load 35 kg, (L x D x H): 459 x 539 x 180 mm
- Ball bearing, 80% telescopic
- 1 cabinet with door and tray divider left, (L x D x H): 486 x 570 x 506 mm
- Central and single locking of the drawers and doors
- Counter top Multiplex 1,200 x 600 x 25 mm
- Steel handle for the movement of the rolling workbench, left and right mountable
- 4 big wheels Ø 125 mm, load per wheel 150 kg 2x braked
- Total load capacity statical 600 kg

Equipment of upper part:

- Dimension (H x W x D): 600 x 1,200 x 300 mm
- 2 doors together with cylinder lock lockable
- Partition wall in the middle, right and left each with 1 tray divider
- Upper part completely welded
- Prepared for re-fitting of the rolling workbench or usable as wall closet
- Weight 35 kg

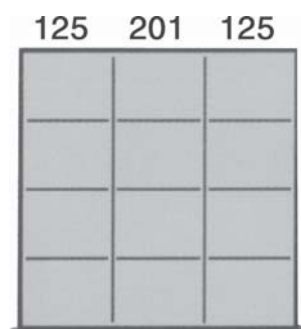
Art. No. 4990 855

- **Tray divider set H = 50 mm**
- For drawers with orifice height 90 mm
- Arrangement 1/3
- Contents: 2 slotted walls, 9 separating plates

Art. No. 4990 856

- **Tray divider set H = 100 mm**
- For drawers with orifice height 135/180 mm
- Arrangement 1/3
- Contents: 2 slotted walls, 9 separating plates

Article No.	Article Description	QTY
4990 850	FÖRCH ROLLING WORKBENCH PROFI	1
4990 851	UPPER PART F.ROLLING WORKBENCH	1
4990 855	TRAY DIVIDER SET H=50MM F.850	1
4990 856	TRAY DIVIDER SET H=100MM F.850	1



Compartment Separator Set

Workbench

Equipment of workbench:

- Dimensions (L x D x H): 1,200 x 600 x 850 mm
- 1 drawer, variable adjustable, (L x D x H): 440 x 540 x 160 mm
- 2 drawers, variable adjustable, (L x D x H): 440 x 540 x 70 mm
- Ball bearing, 80 % extractable
- total load: 500 kg
- load per drawer 30 kg
- Steel sheet cabinet with lockable door, L x D x H: 460x570x420 mm and 2 intermediate bases
- Workbench plate (furniture chipboard) top and bottom side provided with beech wood plate, L x D x H: 1,200 x 600 x35 mm

Frame:

- Feet square pipe 40 x 40 x 2 mm
- Longitudinal bracing square pipe 30 x 30 x 2 mm
- Angle frame sheet 3 mm
- Plastic glider at the feet
- Colour: corpus blue, drawer/door light grey

Article No.	Article Description	QTY
5437 1200	WORKBENCH 1200MM	1



Workbench 1501

- Counter top made of multilayered glued beech wood, 40 mm
- Base frame made of steel sections with panel for bottom attachment
- Drawer made quality sheet steel, ball bearing guiding rails
- Lockable drawer, loadable with overer 40 kg (H x W x D: 150 x 430 x 540 mm)
- Dimension: H x W x D: 840 x 1,500 x 700 mm
- Colour: blue

Article No.	Article Description	QTY
5437 150 1	WORKBENCH 1500MM WITH DRAWER	1



Workbench 1502

- Counter top made of multilayered glued beech wood, 40 mm
- Base frame made of u-section with panel for bottom attachment
- Substruction cabinet with ball bearing drawer, lockable
- Cabinet with 2 lower shelves (H x W x D: 670 x 510 x 630 mm)
- Dimension: H x W x D: 840 x 1,500 x 700 mm
- Colour: blue

Article No.	Article Description	QTY
5437 150 2	WORKBENCH 1500MM W.HANG.LOCKER	1



Workbench 2001

- Counter top made of multilayered glued beech wood, 40 mm
- Base frame made of u-section with panel for bottom attachment
- Substruction cabinet with folding door and 2 lower shelves, lockable
- Dimension H x W x D: 840 x 2,000 x 700 mm
- Colour: blue

Article No.	Article Description	QTY
5437 200 1	WORKBENCH 2000MM WITH LOCKER	1



Vices

- Completely made of steel
- Forged in die
- With break resistance guarantee
- Heavy duty functional components like clamping jaws, anvils and guiding rails are additionally surface hardened



Technical Data

Clamping range for pipes (Outer-Ø)	Fastening hole spacing Width – Length	Weight
16 – 55 mm	76 – 98 mm	9 kg
27 – 70 mm	96 – 120 mm	16 kg
27 – 100 mm	120 – 140 mm	27 kg
27 – 100 mm	120 – 140 mm	29 kg

Article No.	Article Description	QTY
4718 120	PARALLEL VICE 120MM/150MM	1
4718 135	PARALLEL VICE 140MM/200MM	1
4718 150	PARALLEL VICE 160MM/225MM	1
4718 175	PARALLEL VICE 180MM/225MM	1

(Jaw width / spread)

Rotary Disc for Vices

- Completely forged from steel
- Rotary disc Art. No. 4718 150 5 is for vice 160 – 180 mm

Article No.	Article Description	QTY
4718 120 5	ROTARY DISC FOR VICE 120MM	1
4718 135 5	ROTARY DISC FOR VICE 140MM	1
4718 150 5	ROTARY DISC FOR VICE 160/180MM	1



Aluminium Magnet Jaws for Vices

Article No.	Article Description	QTY
4718 120 1	(PAIR)ALUMIN.MAGNET JAWS 120MM	1
4718 125 1	(PAIR)ALUMIN.MAGNET JAWS 140MM	1
4718 150 1	(PAIR)ALUMIN.MAGNET JAWS 160MM	1
4718 175 1	(PAIR)ALUMIN.MAGNET JAWS 180MM	1



Workshop Organiser Pro

- Complete, extremely stable and robust design for a system of keeping a workshop tidy in body shops and motorbike workshops
- Large choice of storage spaces
- For all sizes of vehicle parts, from motorbike petrol tanks to automobile bumpers
- Greatest possible number of usable surfaces means low space requirements in the workshop
- 6 high quality steerable castors, making it as user-friendly as possible with optimum use of space
- 2 swing-out arms for 'large parts' such as doors, bonnets or windscreens, supported by padded extension bars
- Edge protector on the shelf rims for the safe storage of enamelled parts
- Protective mats in the shelving
- Partition on one half of the shelf for small parts, such as screws and clips
- Identification panel to show which vehicle the parts belong to
- Lateral cantilever arm for keeping seals, etc.

Technical Data

Shelf loading capacity: Above: 30 kg
Middle: 30 kg
Below: 50 kg

Weight: 50 kg

Article No.	Article Description	QTY
9100 35	WORKSHOP ORGANIZER PROFI	1



Workshop Organiser BASE

- Base-body with 4 steerable castors
- 1x shelf and 1x shelf basket
- 2x cantilever arms for fixing a bumper
- Identification panel

Technical Data

Shelf loading capacity: Above: 30 kg
Below: 50 kg

Height: approx. 2,060 mm

Width: approx. 1,305 mm

Depth: approx. 860 mm

Article No.	Article Description	QTY
9100 34	WORKSHOP ORGANIZER BASE	1



VARO Barrel Rack for 60 L Barrels

- Robust version due to square tubes (30 × 20 × 2 mm)
- Collecting tray with approx. 70 l volume
- Stackable for any number of barrels on top of each other
- No tilting and positioning of barrels necessary any more
- Storage of canister goods without any problem
- The persistent smooth bottom of the barrel makes a problem-free cleaning possible
- The collecting tray protects your workshop from pollution which can be caused by drops or leakages
- The collecting tray contains 2 recessed grips for comfortable carriage and consists of incombustible PE

Technical Data

Barrel rack H × W × D: 600 × 490 × 640 mm
Collecting tray H × W × D: 290 × 400 × 720 mm

Article No.	Article Description	QTY
9100 111	BARR.RACK W.COLL.TRAY 1 BARREL	1
9100 211	BARR.RACK W.COLL.TRAY 2 BARR.	1
9100 311	BARR.RACK W.COLL.TRAY 3 BARR.	1



Individual Parts VARO Barrel Rack

Article No.	Article Description	QTY
9100 10	BARREL RACK 30/60L	1
9100 11	COLLECTING TRAY F.BARREL RACK	1



Socket Bar System

- 4 different lengths
- Universal and can be assembled with 1/4", 3/8", 1/2" spring clips

Article No.	Article Description	QTY
4498 158	SOCKET BAR 158MM WITHOUT CLIP	1
4498 241	SOCKET BAR 241MM WITHOUT CLIP	1
4498 300	SOCKET BAR 300MM WITHOUT CLIP	1
4498 400	SOCKET BAR 400MM WITHOUT CLIP	1
4498 14	1/4" SPRING CLIP	10
4498 38	3/8" SPRING CLIP	e 10
4498 12	1/2" SPRING CLIP	e 10



TX Socket Wrench Inserts

Art. No. 4495 4440:

- TX socket wrench coupling 1/4"
E 4, 5, 6, 7, 8, 10

Art. No. 4495 4441:

- TX socket wrench coupling 3/8"
E 5, 6, 7, 8, 10, 11, 12, 14, 16

Art. No. 4495 4442:

- TX socket wrench couplings 1/2"
E 10, 11, 12, 14, 16, 18, 20, 24

Article No.	Article Description	QTY
4495 4440	1/4" TX SOCKET WRENCH BAR	1
4495 4441	3/8" TX SOCKET WRENCH BAR	1
4495 4442	1/2" TX SOCKET WRENCH BAR	1



TX Screwdriver Inserts

Art. No. 4495 4455:

- TX screwdriver bar coupling 1/4"
TX 10, 15, 20, 25, 27, 30 with head access hole drilling

Art. No. 4495 4456:

- TX screwdriver bar coupling 3/8"
TX 10, 15, 20, 25, 27, 30, 40, 45

Art. No. 4495 4457:

- TX screwdriver bar coupling 1/2"
TX 20, 25, 27, 30, 40, 45, 50, 55

Article No.	Article Description	QTY
4495 4455	1/4" TX SCREWDRIVER INSERT BAR	1
4495 4456	3/8" TX SCREWDRIVER INSERT BAR	1
4495 4457	1/2" TX SCREWDRIVER INSERT BAR	1



XZN Screwdriver Inserts

- XZN screwdriver bar 1/2"
5, 6, 8, 10, 12
8 x 100, 10 x 100, 12 x 100 mm

Article No.	Article Description	QTY
4495 4460	1/2" XZN SCREWDRIVER INSERT BAR	1



Socket Set 5 Star, 1/4"

- 1/4" socket inserts, 5 star with head access hole drilling, size 10, 15, 20, 25, 27, 30, 40

Application examples:

- VW/Audi, Mercedes-Benz cars, Ford, Volvo (generator, engine control and door covering) Mercedes-Benz truck (e.g. Actros; Atego)
- Agricultural engine injection pumps



Article No.	Article Description	QTY
4495 4401	1/4" SOCKET SET 5 SET HEAD DR.	1

Hexagon Socket – Screwdriver Inserts

Art. No. 4495 4450:

- Hexagon socket screwdriver bar 1/4" SW 1,5, 2, 2,5, 3, 4, 5, 6, 8

Art. No. 4495 4451:

- Hexagon socket screwdriver bar 3/8" SW 3, 4, 5, 6, 8, 10

Art. No. 4495 4452:

- Hexagon socket screwdriver 1/2" SW 4, 5, 6, 7, 8, 10, 12

Art. No. 4495 4452 1:

- Hexagon socket screwdriver bar 1/2" long SW 5, 6, 7, 8, 10



Article No.	Article Description	QTY
4495 4450	1/4"HEX.SOCKET SCREWDRIVER BAR	1
4495 4451	3/8"HEX.SOCKET SCREWDRIVER BAR	1
4495 4452	1/2"HEX.SOCKET SCREWDRIVER BAR	1
4495 4452 1	1/2"HEX.SOCK.SCREWDR.BAR LONG	1

Power Socket Set, 1/2" **ECO**

- Including Mercedes-Benz 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



Magnetic Toolbar

- Can be mounted on the wall, tool trolley etc.
- Make clear overview of tools possible

Art. No. 4990 10:

- Light version
- Dimension H x W x D: 40 x 500 x 24 mm
- Including fixing material

Art. No. 4990 11:

- Heavy version
- Dimension H x W x D: 18 x 610 x 25 mm

Article No.	Article Description	QTY
4990 10	MAGNET.TOOLBAR LIGHT VERS.50CM	1
4990 11	MAGNET.TOOLBAR HEAVY VERS.61CM	1



Magnetic Tool Holder

- With two magnets for the fixation on ferrous surfaces
- Pins for attaching socket wrenches
- The Ring in the middle is suitable for a 1/2" impact wrench
- The two noses at the bottom can be used for attaching e.g. torque wrenches
- Size LxW: 390 x 135 mm
- Load capacity: 15 kg

Article No.	Article Description	QTY
4498 1	TOOL HOLDER WITH 2 MAGNETS	1



Magnet Shell Stainless Steel Ø 150 mm

- Stainless steel shell for storing small parts and tools
- Plastic layered magnet to prevent damages on painted surfaces
- Magnetic objects are being hold even in inclined position due to magnetic force

Article No.	Article Description	QTY
4990 12	MAGNET SHELL ST.STEEL Ø150	1



Magnetic Shell Stainless Steel 140 x 240 mm

- Stainless steel shell for storing small parts and tools
- 2 plastic layered magnets to prevent damages on painted surfaces
- Magnetic objects are being hold even in inclined position due to magnetic force

Article No.	Article Description	QTY
4990 13	MAGNET SHELL ST.STEEL 140X240	1



Magnetic Shell Plastic Ø 150 mm

- Plastic shell for storing small parts and tools
- Plastic layered magnet to prevent damages on painted surfaces
- Magnetic objects are being hold even in inclined position due to magnetic force

Article No.	Article Description	QTY
4990 14	MAGNET SHELL PLASTIC Ø150MM	1



Assembly Board

- Practical board for comfortable works under the vehicle
- 6 oil-resistant and low-noise steering rollers with tread rubber
- Cushioned headrest
- Including tool trays
- With cut out arms for optimum elbowroom
- Load capacity: 120 kg

Article No.	Article Description	QTY
5436 15	PROF.ASSEMBLY BOARD	1
5436 15 1	STEERING ROLLER FOR PROF.BOARD	1



Creeper Board and Folding Seat

For comfortable working at and under the vehicle

- 2 in 1 – creeper board and folding seat
- Quick and easy adjustment of both functions
- Cushioned lying surface, yellow head
- Stable, robust steel frame with 6 big rollers, Ø 63 mm
- Weight: 9 kg
- Load capacity up to 150 kg
- Dimensions L x W x H: Lying position 1, 198 x 450 x 130 mm, sitting height 420 mm, sitting surface 300 x 310 mm

Article No.	Article Description	QTY
5436 3	CREEPER BOARD AND FOLDING SEAT	1
5436 3 1	REPL.WHEEL HEAD AREA	1
5436 3 2	REPL.WHEEL LYING AREA	1



Roller Stool

- With hydraulic height adjustment (360–475 mm) and 5 steering rollers (2x with locking devices)
- Max. load: 110 kg

Article No.	Article Description	QTY
5436 1	ASSEMBLY STOOL HYDR. 360-480MM	1
5436 7	SPARE WHEE.WITHO.BRAKE F.STOOL	1



VAROBOXX

- Mobile logistics in four sizes
- Made of shock- and impact-proof ABS polymer
- Two robust closures
- Carrying handle of plastic integrated in the cover
- Completely compatible with each other
- Without clicking a complicated locking system
- Can be quickly separated from each other
- Available empty or as equipped sets
- Extensive accessories for individual configuration
- Industry-specific inserts for any size

- Securing the VAROBOXXES on Sortimo shelves or the MultiSlide pull-out tray
- Can be used with separate adapter plates as the smallest self-contained vehicle rack in the transporter
- Compatible with Sortimo and Bosch L-Boxx
- Max. load of individual box: 12 kg
- Max. load, carrying handle: 40 kg (when the tower is carried using the carrying handle)
- Approved load on cover: 85 kg

VAROBOXX 1

- Type 102
- Outer dimensions (WxDxH): 442 × 357 × 117 mm
- Inner dimensions (WxDxH): 378 × 313 × 71 mm
- Weight: 2.1 kg



Article No.	Article Description	QTY
9003 1	VAROBOXX SIZE:1 EMPTY	1

VAROBOXX 2

- Type 136
- Outer dimensions (WxDxH): 442 × 357 × 151 mm
- Inner dimensions (WxDxH): 378 × 311 × 107 mm
- Weight: 2.2 kg



Article No.	Article Description	QTY
9003 2	VAROBOXX SIZE:2 EMPTY	1

VAROBOXX 3

- Type 238
- Outer dimensions (WxDxH): 442 × 357 × 252 mm
- Inner dimensions (WxDxH): 378 × 306 × 209 mm
- Weight: 2.8 kg



Article No.	Article Description	QTY
9003 3	VAROBOXX SIZE:3 EMPTY	1

VAROBOXX 4

- Type 374
- Outer dimensions (WxDxH): 442 × 357 × 389 mm
- Inner dimensions (WxDxH): 378 × 296 × 345 mm
- Weight: 3.4 kg



Article No.	Article Description	QTY
9003 4	VAROBOXX SIZE:4 EMPTY	1

VAROBOXX LT 2

- Made from shock- and impact-resistant ABS plastic
- Compatible with all VAROBOXXES
- With carrying attachment
- Open container with quick access to all items
- Ideal for cumbersome items
- Outer measurements (WxDxH): 442 × 357 × 151 mm
- Inner measurements (WxDxH): 378 × 311 × 107 mm
- Weight: 2.3 kg



Article No.	Article Description	QTY
9003 8	VAROBOXX LT SIZE: 2	1

VAROBOXX LT 3

- Made from shock- and impact-resistant ABS plastic
- Compatible with all VAROBOXXES
- With carrying attachment
- Open container with quick access to all items
- Ideal for cumbersome items
- Outer measurements (WxDxH): 442 × 357 × 252 mm
- Inner measurements (WxDxH): 378 × 306 × 209 mm
- Weight: 2.9 kg



Article No.	Article Description	QTY
9003 9	VAROBOXX LT SIZE: 3	1

VAROBOXX 2 with Tool Organizer

- Tool organizer in cover with 10 pockets and holding strap
- Tool organizer in the bottom with 8 slots on the front and 11 slots on the back
- With practical carrying strap
- Professional tool box in VAROBOXX system
- Compatible with VAROMOBIL vehicle equipment and VAROMOVE



Article No.	Article Description	QTY
9003 2 1	VAROBOXX SIZE:2 W.TOOL ORGANIZ	1

(Tools not included in delivery)

VAROBOXX Replacement Parts

Article No.	Article Description	QTY
9005 51	SIDE HANDLE VAROBOXX1	1
9005 52	SIDE HANDLE VAROBOXX2-4	1
9005 53	FRONT HANDLE VAROBOXX	1
9005 54	COVER HANDLE VAROBOXX	1
9005 55	(COUPLE)FASTENINGS VAROBOXX	1
9005 56	HOLDER+SPRING VAROBOXX	1



Accessories **VAROBOXX**

Trolley

- Easy and quick height adjustment due to button
- Extra big profile wheel for exterior works
- Small folding measure
- Big transport space
- Sponge rubber covered grips with foldable extra grips
- Mobile and safe at the same time

Technical Data	
Load capacity:	200 kg
Dead weight:	10.4 kg
Dimensions (L x W x H)	
- folded up:	97 x 595 x 1,010 mm
- opened:	600 x 620 x 1,255 mm
Platform size:	590 x 390 mm

Article No.	Article Description	QTY
4990 200 10	TROLLEY 200KG FOLDABLE	1



Transport Roller **VAROBOXX**

- Measurements (LxWxH): 646 x 492 x 184 mm
- Practical mobile platform for all VAROBOXXES – they can simply be clicked together
- Plastic with four castors, two lockable castors
- Maximum load: 100 kg
- Weight: 3.8 kg

Article No.	Article Description	QTY
9005 100	TRANSPORT ROLLER 100KG VAROBOX	1



Mounting Plate, Small **VAROBOXX**

- measurements (LxWxH): 494 x 50 x 612 mm
- The VAROBOXXES are secured with belts
- material: steel sheet
- weight: 3.9 kg
- suitable for all VAROBOXXes

Article No.	Article Description	QTY
9006 1	MOUNTING PLATE SMALL VAROBOX	1



Mounting Plate, Large **VAROBOXX**

- Measurements (LxWxH): 494 x 50 x 918 mm
- The VAROBOXXES are secured with belts
- Material: steel sheet
- Weight: 5.7 kg
- Suitable for all VAROBOXXes

Article No.	Article Description	QTY
9006 2	MOUNTING PLATE BIG VAROBOX	1



Belt for Mounting Plate **VAROBOXX**

- For secure attachment of VAROBOXXES to the mounting plate
- Suitable for all VAROBOXXES

Article No.	Article Description	QTY
9006 4	BELT F.MOUNTING PLATE VAROBOXX	1



Work Surface, Small **VAROBOXX**

- Measurements (LxWxH): 500 × 700 × 18 mm
- Lightweight, flexible and stable multiplex worktop
- Built-in lock for fixing the worktop
- With 1 tower VAROBOXXES on VAROBOXX roller (ordered separately) the workbench is built quickly
- Height adjustment by number of VAROBOXXES

Article No.	Article Description	QTY
9005 50 70	WORK SURFACE SMALL VAROBOXX	1



Work Surface, Large **VAROBOXX**

- Measurements (LxWxH): 1,400 × 700 × 18 mm
- Lightweight, flexible and stable multiplex worktop
- Built-in lock for fixing the worktop
- With 2 towers VAROBOXXES on VAROBOXX roller (ordered separately) the bench is constructed quickly
- Adjustable in height by number of VAROBOXXES

Article No.	Article Description	QTY
9005 140 70	WORK SURFACE LARGE VAROBOXX	1



Holder Prosafe **VAROBOXX**

- The VAROBOXX holder allows you to click the VAROBOXX, VAROBOXX LS, VAROBOXX Rack down on the floor
- The load can be secured during transport using a lashing strap thanks to the integrated lashing point
- Suitable lashing straps: Art. No.: 9006 4 (approx. 1.5 m), 9012 45 1 (approx. 3 m)
- Scope of delivery: 2 pieces

Article No.	Article Description	QTY
9006 5	HOLDER PROSAFE VAROBOXX	1



Work Surface for Lid **VAROBOXX**

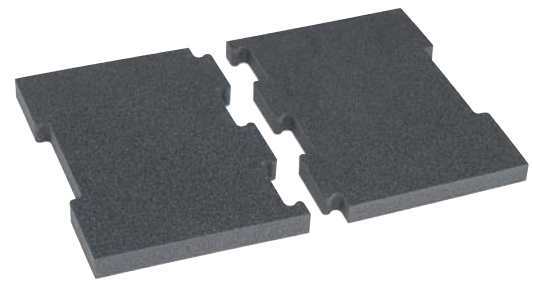
- Stable multiplex worktop 14 mm thick
- Can be fitted to the lid of every VAROBOXX, no tools needed
- Divisible for transport to the VAROBOXX
- Weight: 1.45 kg
- Suitable for all VAROBOXXES



Article No.	Article Description	QTY
9005 0 1	WOOD.WORKTOP 2-PIECE VAROBOX	1

Seat Cushion for Lid **VAROBOXX**

- Suitable for all VAROBOXXES

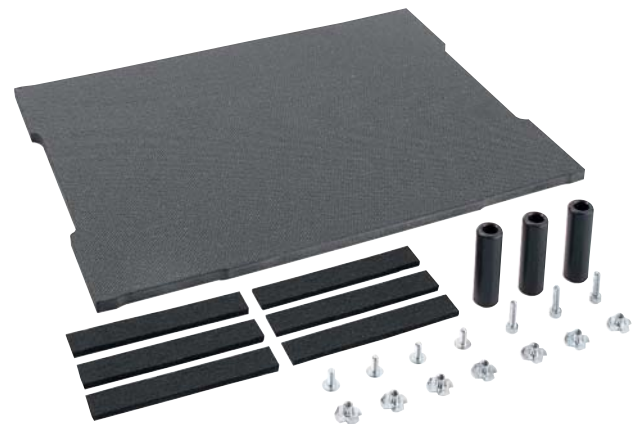


Article No.	Article Description	QTY
9005 0 13	SEAT CUSHION FOR LID VAROBOXX	1

Basic Individual Set **VAROBOXX**

- Made-to-measure storage of equipment and tools

Article No.	Article Description	QTY
9005 1	INDI.BASIC SET VAROBOX 1	1
9005 2	INDIV.BASIC SET VAROBOX 2	1
9005 3	INDIV.BASIC SET VAROBOX 3	1
9005 4	INDIV.BASIC SET VAROBOX 4	1



Individual Adhesive Felt **VAROBOXX**

- Dimensions (L x W x H): 120 x 20 x 4 mm
- Contents: 6 strips
- Dampers to prevent damage to the tool or machine
- Elements may be glued individually
- Suitable for all VAROBOXXES

Article No.	Article Description	QTY
9005 0 3	INDIV.GLUE FELT VAROBOX	1



Individual Screw Set **VAROBOXX**

- To supplement the basic set
- To screw the inset boxes or accessories
- Suitable for all VAROBOXXES



Article No.	Article Description	QTY
9005 0 4	INDIV.SCREW SET VAROBOX	1

Individual Separating Sheet, Short **VAROBOXX**

- Measurements (W x H): 200 x 62 mm
- To supplement the basic set
- Suitable for all VAROBOXXES



Article No.	Article Description	QTY
9005 0 5	INDI.PART.PLATE 62X200 VAROBOX	1

Individual Separating Sheet, Long **VAROBOXX**

- Measurements (W x H): 400 x 62 mm
- To supplement the basic set
- Suitable for all VAROBOXXES



Article No.	Article Description	QTY
9005 0 6	INDI.PART.PLATE 62X400 VAROBOX	1

Individual Holder for Separating Sheet **VAROBOXX**

- To supplement the basic set
- Suitable for all VAROBOXXES

Article No.	Article Description	QTY
9005 0 9	INDI.PART.PLATE HOLDER VAROBOX	1



Individual Position Retainer **VAROBOXX**

- Measurements (L x Ø): 60 x 18 mm
- Position holder for use with the basic set
- To fix the contents
- Suitable for all VAROBOXXES

Article No.	Article Description	QTY
9005 0 10	INDI.POSITION RETAINER VAROBOX	1



Lid Insert **VAROBOXX**

- Measurements (LxWxH): 405 × 30 × 333 mm
- Lid insert made of hard foam to protect the contents of your inset boxes or thermoforming operations against unintentional mixing during transport
- Suitable for all VAROBOXXES

Article No.	Article Description	QTY
9004 0 1	COVER INLAY VAROBOXX	1



Tool Card **VAROBOXX**

- Measurements (LxWxH): 380 × 20 × 315 mm
- To be mounted in the lid of the VAROBOXX, with elastic loops and pockets for tools
- Suitable for all VAROBOXXES

Article No.	Article Description	QTY
9004 0 2	DOCUMENT CARD VAROBOXX	1



Document Card **VAROBOXX**

- Measurements (LxWxH): 380 × 20 × 315 mm
- The document card enables accommodation of calculator, pens, etc. and documents up to size A4
- Suitable for all VAROBOXXES

Article No.	Article Description	QTY
9004 0 3	DOCUMENT CARD VAROBOXX	1



Transparent Bag **VAROBOXX**

- Measurements (LxWxH): 335 × 2 × 206 mm
- Transparent pouch to accommodate up to size DIN A5 operation/use instructions on the underside of the cover
- Suitable for all VAROBOXXES

Article No.	Article Description	QTY
9004 0 4	TRANSPARENT BAG VAROBOXX	1



Universal Adapter Tray **VAROBOXX**

- Suitable for all systainer inserts and deep-drawn components
- Supports a standardised case system for all machines
- Maximum flexibility for integration of your machines in the VAROBOXX
- Not suitable for inserts with small parts
- Suitable for VAROBOXX 2, 3 and LS



Article No.	Article Description	QTY
9004 0 5	UNIV.ADAPTER TRAY VAROBOXX	1

Shoulder Strap **VAROBOXX**

- Ideal supplement for VAROBOXX 1 and 2
- Adjustable strap, from 0.80 m to 1.50 m
- Incl. supporting bracket and assembly instructions



Article No.	Article Description	QTY
9005 0 14	SHOULDER STRAP VAROBOXX	1

Customisable EPP Insert **VAROBOXX 1**

- Consisting of 4 pimped, 15 mm EPP sheets for individual self-cutting
- Insert is suitable for large and small filigree contours, whereby the intersections can vary through several levels
- Set is supplied with instructions and cutter
- Suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 6	CUSTOMIS.EPP INSERT VAROBOXX1	1



Pre-cut Foam **VAROBOXX 1**

- Measurements (LxWxH): 405 × 315 × 50 mm
- Pre-perforated foam for VAROBOXX
- Individual adjustment of the insert
- Allows the safe transport of valuable items
- Suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 3	PRE-CUT FOAM VAROBOXX1	1



Anti-slip Mat **VAROBOXX 1+2**

- Measurements (LxWxH): 397 × 307 × 4 mm
- Soft inlay mat made of rubber
- Protects the VAROBOXX and the material on the floor against damage during transport
- Suitable for VAROBOXX 1 and 2

Article No.	Article Description	QTY
9005 0 12	ANTI-SKID MAT VAROBOX 1+2	1



Deep Drawn Insert 5 Compartments **VAROBOXX 1**

- measurements (LxWxH): 405 × 315 × 62 mm
- tray for small parts made from deep-drawn plastic with 5 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 5	DEEP DRAWN INS.5COMP.VAROBOXX1	1

Deep Drawn Insert 8 Compartments **VAROBOXX 1**

- measurements (LxWxH): 405 × 315 × 62 mm
- tray for small parts made from deep-drawn plastic with 8 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 8	DEEP DRAWN INS.8COMP.VAROBOXX1	1

Deep Drawn Insert 12 Compartments **VAROBOXX 1**

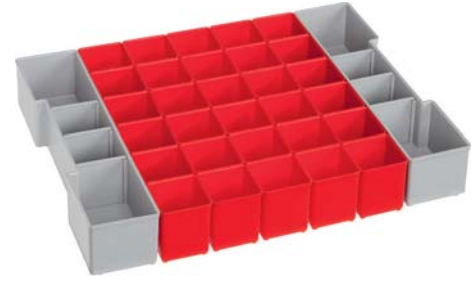
- measurements (LxWxH): 405 × 315 × 62 mm
- tray for small parts made from deep-drawn plastic with 12 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 12	DEEP DRAWN INS.12COM.VAROBOXX1	1

Inset Box Set, red **VAROBOXX 1**

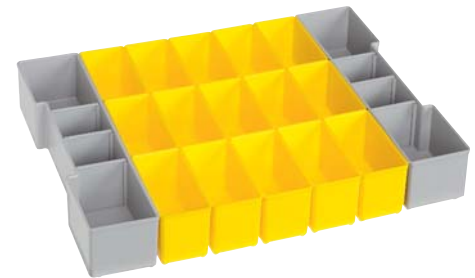
- 2x inset box U3, grey including 6 partitions
- 30x inset box A3, red
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 21	INSET BOX SET RED VAROBOXX1	1

Inset Box Set, yellow **VAROBOXX 1**

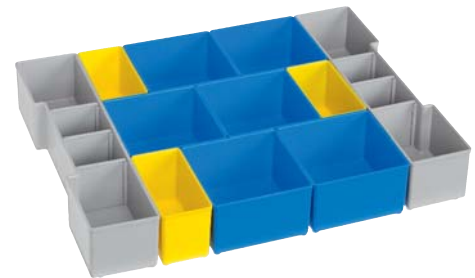
- 2x inset box U3, grey including 6 partitions
- 15x inset box B3, yellow
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 25	INSET BOX SET YELLOW VAROBOXX1	1

Inset Box Set, yellow/blue **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 3x inset box B3, yellow
- 6x inset box C3, blue
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 22	INSET BOX SET YE/BU VAROBOXX1	1

Inset Box Set, blue/light green **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 3x inset box C3, blue
- 3x inset box D3, green
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 26	INS.BOX SET BU/L.GN VAROBOXX1	1

Inset Box Set, light green **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 5x inset box D3, green
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 23	INS.BOX SET L.GREEN VAROBOXX1	1

Inset Box Set, orange/yellow **VAROBOXX 1**

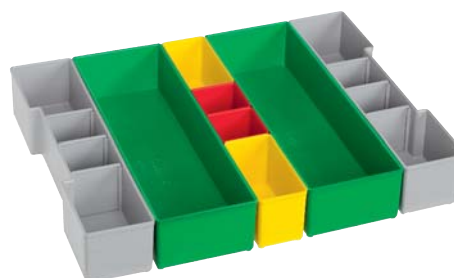
- 2x inset box U3, grey including 6 partitions
- 7x inset box F3, orange
- 1x inset box B3, yellow
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 27	INS.BOX SET OG/YE VAROBOXX1	1

Inset Box Set, dark green/yellow/red **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 2x inset box G3, dark green
- 2x inset box B3, yellow
- 2x inset box A3, red
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 24	INS.BOX SET GN/YE/RDVAROBOXX1	1


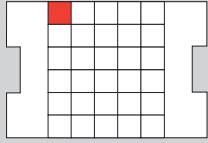
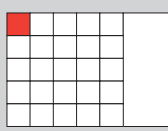
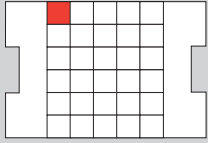

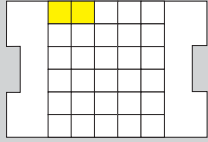
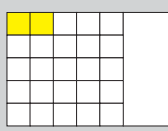
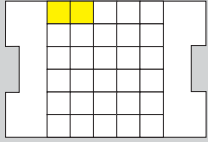

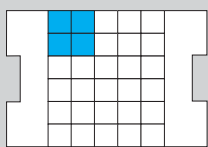
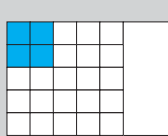
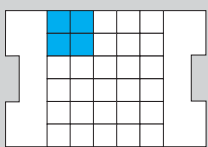

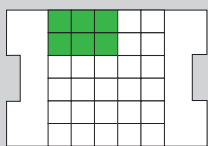
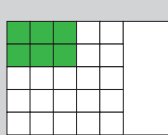
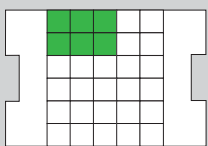

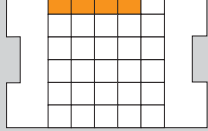
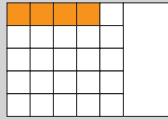
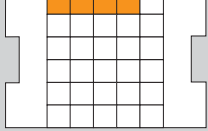

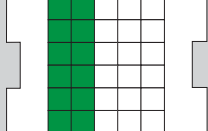
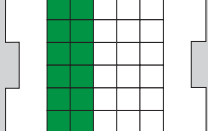

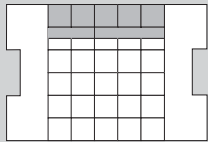
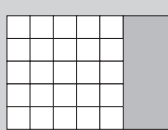
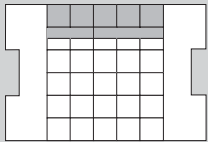

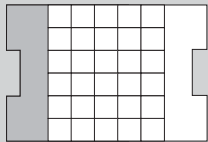
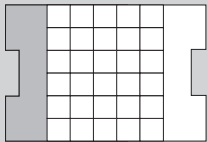

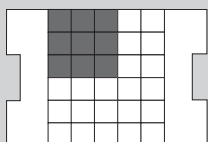
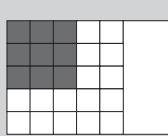
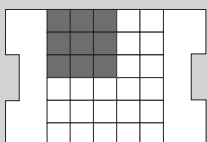
Inset Box Set, all colours **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 2x inset box A3, red
- 3x inset box B3, yellow
- 2x inset box C3, blue
- 1x inset box D3, light green
- 2x F3 inset box , orange
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 28	INS.BOX SET ALL COL.VAROBOXX1	1

Inset Box matrix

Article No.		Dimensions mm	VAROBOXX 1+2	VAROiBOXX	Inset Box insert VAROBOXX 3+4
Inset Box, red					
9004 1 5 5		W x D x H: 52 x 52 x 63			
Inset Box, yellow					
9004 1 5 10		W x D x H: 104 x 52 x 63			
Inset Box, blue					
9004 1 10 10		W x D x H: 104 x 104 x 63			
Inset Box, light green					
9004 1 10 15		W x D x H: 156 x 104 x 63			
Inset Box, orange					
9004 1 5 20		W x D x H: 208 x 52 x 63			
Inset Box, dark green					
9004 1 10 30		W x D x H: 312 x 104 x 63			
Inset Box, grey					
9008 75 260		W x D x H: 78 x 260 x 63			
Inset Box lateral grey					
9004 1 0		W x H: 312 x 63			
Cutting Disc Spindle					
9004 1 2		W x D x H: 156 x 156 x 63			

Inset Box, red **VAROBOXX 1**

- Type A3
- measurements (WxL): 5 x 5 cm
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 5 5	INSET BOX RED 5X5CM VAROBOXX1	1

Inset Box, yellow **VAROBOXX 1**

- Type B3
- measurements (WxL): 5 x10 cm
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	1

Inset Box, blue **VAROBOXX 1**

- Type C3
- measurements (WxL): 10 x10 cm
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	1

Inset Box, light green **VAROBOXX 1**

- Type D3
- measurements (WxL): 10 x 15 cm
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	1



Inset Box, orange **VAROBOXX 1**

- Type F3
- measurements (WxL): 5 x 20 cm
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 5 20	INS.BOX ORAN.5X20CM VAROBOXX 1	1



Inset Box, dark green **VAROBOXX 1**

- Type G3
- measurements (WxL): 10 x 30 cm
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 10 30	INSETB.D-GR.10X30CM VAROBOXX 1	1



Side Inset Box, grey **VAROBOXX 1**

- Type U3
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	1



Partition Inset Box, side, grey **VAROBOXX 1**

- Type U3 TW
- suitable for side inset box, grey in VAROBOXX 1

Article No.	Article Description	QTY
9004 1 0 1	DIVI.INSET BOX SIZE VAROBOXX 1	e 200



Cutting Disc Inset Box **VAROBOXX 1**

- Suitable for VAROBOXX 1, VAROiBOXX and VAROBOXX LS drawer
- With Euro-standard hole for POS wall
- Suitable for all discs up to 125 mm Ø
- Dimensions (W × D × H): 156 × 156 × 63 mm

Article No.	Article Description	QTY
9004 1 2	CUTTING DISC INSETB.VAROBOXX1	1



Burner Nozzle Insert **VAROBOXX**

- Measurements (WxDxH): 405 × 315 × 50 mm
- Holes: 22 mm Ø
- Pre-perforated foam material facilitates the safe transportation of fragile contents
- Suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 4	BURNER NOZZLE INSERT VAROBOXX	1



Customisable EPP Insert **VAROBOXX 2 and LS**

- Consisting of 6 pimpled, 15 mm EPP sheets for individual self-cutting
- Insert is suitable for large and small filigree contours, whereby the intersections can vary through several levels
- Set is supplied with instructions and cutter
- Suitable for VAROBOXX 2 and LS

Article No.	Article Description	QTY
9004 2 13	CUSTOMIS.EPP VAROBOXX2	1



Deep Drawn Insert 4 Compartments **VAROBOXX 2**

- tray for small parts made from deep-drawn plastic
- with 4 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 2 and VAROBOXX LS



Article No.	Article Description	QTY
9004 2 7	DEEP DRAWN INS.4COMP.VAROBOXX2	1

Deep Drawn Insert 6 Compartments **VAROBOXX 2**

- tray for small parts made from deep-drawn plastic
- with 6 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 2 and VAROBOXX LS



Article No.	Article Description	QTY
9004 2 9	DEEP DRAWN INS.6COMP.VAROBOXX2	1

Deep Drawn Insert 8 Compartments **VAROBOXX 2**

- tray for small parts made from deep-drawn plastic
- with 8 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 2 and VAROBOXX LS



Article No.	Article Description	QTY
9004 2 8	DEEP DRAWN INS.8COMP.VAROBOXX2	1

Laptop Insert **VAROBOXX 2**

- suitable for laptops up to 365 × 270 mm (approx. 15.4" depending on design)
- below the laptop is space for power supply, mouse, CDs, etc.
- suitable for VAROBOXX 2



Article No.	Article Description	QTY
9004 2 1	LAPTOP INSERT VAROBOXX2	1

Pre-cut Foam **VAROBOXX 2**

- measurements (LxWxH): 405 × 315 × 85 mm
- pre-perforated foam
- option to customize the foam insert to the content
- suitable for VAROBOXX 2

Article No.	Article Description	QTY
9004 2 3	PRE-CUT FOAM VAROBOXX2	1



Cylinder Saw Insert **VAROBOXX 2**

- suitable for VAROBOXX 2
- prepared for hole saws Ø
19/22/30/35/40/44/51/60/68/76/83/92/95/102 and 114 mm
- compartment for shank AS 2, AS 3 and centre drill 6.3 × 80 mm

Article No.	Article Description	QTY
9004 2 5	CYLINDER SAW INSERT VAROBOXX2	1



Angle Grinder Insert **VAROBOXX 2**

- suitable for VAROBOXX 2
- cut-off wheel tray for 115 mm blades with removable screening for 125 mm shelf depth 40 mm
- compartment for guard, auxiliary handle and keys
- **note: suitable for FÖRCH angle grinder, and many other types!**

Article No.	Article Description	QTY
9004 2 2	ANGLE GRINDER INSERT VAROBOXX2	1



Drilling Machine Insert **VAROBOXX 2**

- suitable for VAROBOXX 2
- with compartment for drills and individual drill cartridge
- **note: suitable for FÖRCH impact drill, other types possible**

Article No.	Article Description	QTY
9004 2 10	DRILLING MACH.INSERT VAROBOXX2	1



Anti-slip Mat **VAROBOXX 3**

- measurements (LxWxH): 390 × 301 × 4 mm
- soft inlay mat made of rubber
- protects the VAROBOXX and the material on the floor against damage during transport
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9005 3 1	ANTI-SKID MAT VAROBOX 3	1

Inset Box Insert **VAROBOXX 3+4**

- suitable for VAROBOXX 3 and 4 in conjunction with partition panel frame Art. No. 9004 3 3

Art. No. 9004 3 1

- inset box insert with inset boxes

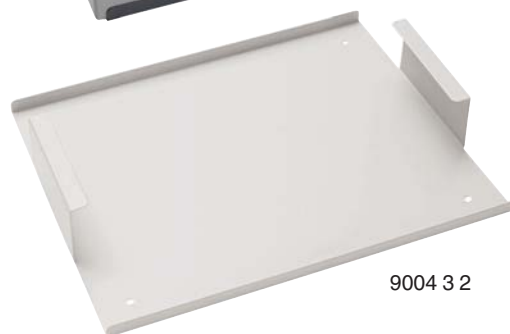
Art. No. 9004 3 2

- inset box inserts without inset boxes



9004 3 1

Article No.	Article Description	QTY
9004 3 1	INS.BOX W.INS.BOX. VAROBOXX3+4	1
9004 3 2	INS.BOX INS.W.BOX VAROBOXX3+4	1



9004 3 2

Partition Panel Frame **VAROBOXX 3+4**

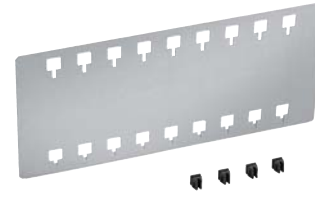
- Partition panel frame for individual division of VAROBOXX using partition panels
- suitable for VAROBOXX 3 and 4

Article No.	Article Description	QTY
9004 3 3	PART.PLATE FRAME VAROBOXX 3+4	1



Slot Pass Partition Plate, short **VAROBOXX 3**

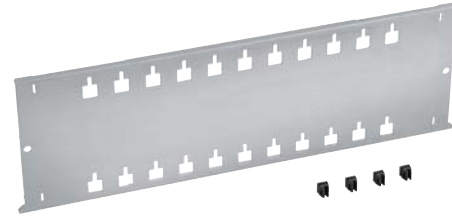
- measurements (WxH): 283 × 130mm
- supplied with 4 clips
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9004 3 4	SLOT PASS PART.SHORT VAROBOXX3	1

Slot Pass Partition Plate, long **VAROBOXX 3**

- measurements (WxH): 354 × 130 mm
- supplied with 4 clips
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9004 3 5	SLOT.PLATE LONG VAROBOXX 3	1

Pass Partition Plate, short **VAROBOXX 3**

- measurements (WxH): 137 × 130 mm
- supplied with 4 clips
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9004 3 6	PASS PART.PL.SHORT VAROBOXX3	1

Pass Partition Plate, long **VAROBOXX 3**

- measurements (WxH): 173 × 130 mm
- supplied with 4 clips
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9004 3 7	PASS PART.PL.LONG VAROBOXX3	1

Thermo Insert **VAROBOXX 3**

- measurements (LxWxH): 336 × 249 × 154 mm
- thermo insert for storing and transporting temperature-sensitive materials such as composites and other construction chemicals
- at a starting temperature of 20°C and an ambient temperature of -10° the internal temperature of the full VAROBOXX does not about fall below 0°C for 10 hours
- thermo inlay consists of insulating EPP (Expanded Polypropylene)
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9004 3 8	THERMO INSERT VAROBOXX3	1

Part.Panel, long f. Thermo Insert **VAROBOXX 3+4**

- measurements (WxH): 140x 355 mm
- for subdivision of thermo insert
- suitable for VAROBOXX 3 and 4



Article No.	Article Description	QTY
9004 3 9	PART.PAN.THERM.LO.VAROBOXX3+4	1

Silicone Cartridge Insert **VAROBOXX 3+4**

- measurements (LxWxH): 295 × 190 × 95 mm
- 1 use for 13 silicone cartridges
- 2 inserts fit in the VAROBOXX
- can be combined with a foam cartridge insert
- suitable for VAROBOXX 3 and 4



Article No.	Article Description	QTY
9004 4 13	SILICONE CARTR.INSERTVAROBOXX4	1

Foam Cartridge Insert **VAROBOXX 3+4**

- measurements (LxWxH): 295 × 190 × 95 mm
- 1 insert for 7 foam cartridges
- 2 inserts fit in the VAROBOXX
- can be combined with a silicone cartridge insert
- suitable for VAROBOXX 3 and 4



Article No.	Article Description	QTY
9004 4 7	FOAM CARTRIDGE INSERTVAROBOXX4	1

Mounting Roll Insert **VAROBOXX 4**

- 2 metal inserts, including fixing set and mounting instructions for transporting suspension files in the VAROBOXX
- suitable for VAROBOXX 4



Article No.	Article Description	QTY
9004 4 9	MOUNT.ROLL INSERT VAROBOXX4	1

Anti-slip Mat **VAROBOXX 4**

- Dimension (W x D x H): 381 x 291 x 4 mm
- Soft rubber insert
- Protects the VAROBOXX and the material against transport damages
- Suitable for VAROBOXX 4



Article No.	Article Description	QTY
9005 4 1	ANTI-SKID MAT VAROBOX 4	1

Thermo Insert **VAROBOXX 4**

- measurements (LxWxH): 326 x 239 x 290 mm
- thermo insert for storing and transporting temperature-sensitive materials such as comribands and other construction chemicals
- at a starting temperature of 20°C and an ambient temperature of -10° the internal temperature of the filled VAROBOXX does not fall below 0°C for 10 hours
- thermo inlay consists of insulating EPP (Expanded Polypropylene)
- suitable for VAROBOXX 4



Article No.	Article Description	QTY
9004 4 1	THERMO INSERT VAROBOXX4	1

Slot Pass Partition Plate, short **VAROBOXX 4**

- measurements (WxH): 283 x255 mm
- for individual classification of the pass partition plate framework
- Supplied with 4 clips
- suitable for VAROBOXX 4

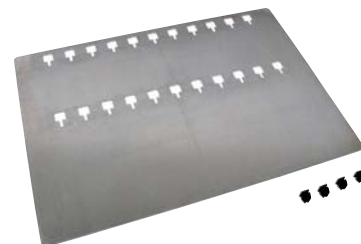
Article No.	Article Description	QTY
9004 4 2	SLO.PART.PLATE SHORT VAROBOXX4	1



Slot Pass Partition Plate, long **VAROBOXX 4**

- measurements (WxH): 354 x255 mm
- for individual classification of the pass partition plate framework
- Supplied with 4 clips
- suitable for VAROBOXX 4

Article No.	Article Description	QTY
9004 4 3	SLOT.PART.PLATE LONG VAROBOXX4	1



Pass Partition Plate, short **VAROBOXX 4**

- measurements (WxH): 137 x 255 mm
- for individual classification of the pass partition plate framework
- Supplied with 4 clips
- suitable for VAROBOXX 4

Article No.	Article Description	QTY
9004 4 4	PART.PLATE SHORT VAROBOXX4	1



Pass Partition Plate, long **VAROBOXX 4**

- measurements (WxH): 173 x255 mm
- for individual division of the partition panel frame
- Supplied with 4 clips
- suitable for VAROBOXX 4

Article No.	Article Description	QTY
9004 4 5	PART.PLATE LONG VAROBOXX 4	1

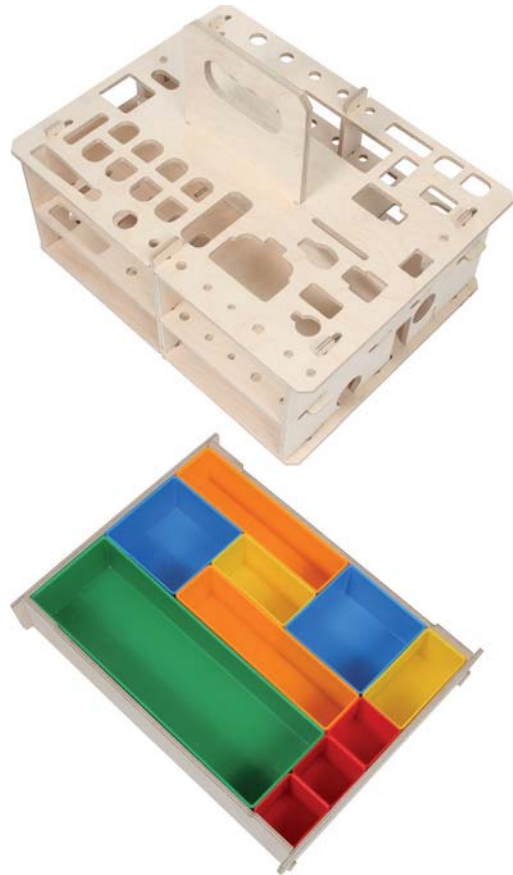


Electricians' Tool Holder

- for VAROBOXX 4
- useful arrangement of electricians' tools
- direct access to all tools
- perfect storage and ordering
- with bottom compartment for inset boxes

Article No.	Article Description	QTY
9004 4 10	ELECTR.TOOL HOLDER VAROBOXX4	1

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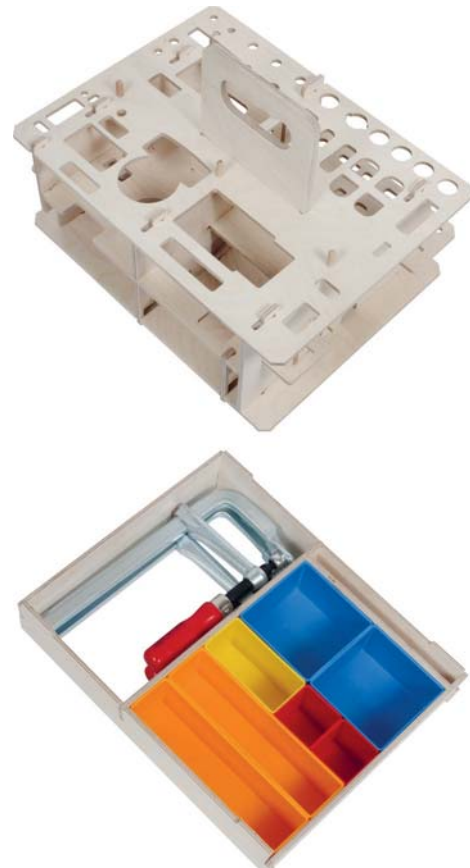


Joiners' Tool Holder

- for VAROBOXX 4
- useful arrangement of joiners' tools
- direct access to all tools
- perfect storage and ordering
- with bottom compartment for inset boxes

Article No.	Article Description	QTY
9004 4 11	JOINERS'S TOOL HOLD.VAROBOXX4	1

(delivery without contents)



Tool Kit for Electrician's Carry Set

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	VDE-SCREWDRIVER MK 2.5	1
4260 4	VDE-SCREWDRIVER MC 4	1
4260 55	SCREWDRIVER MC 5.5	1
4260 65	SCREWDRIVER MC 6.5	1
4261 1	VDE-PH SCREWDRIVER MK 1	1
4261 2	VDE-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.COBRA WAPO.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

Tool Kit for Carpenter's Carry Set

Contents

Article No.	Article Description	Quantity
4000 160	COMBINATION PLIERS 160MM	1
4010 160	SIDE CUTTER 160MM 5*	1
4159 20	HEX-PLUS BP ALLEN KEY SET 9-PA	1
4200 35	MC-SCREWDRIV.PASS.BL. 3.5 5*	1
4200 45	MC-SCREWDRIV.PASS.BL.4.5 5*	1
4200 55	MC-SCREWDRIV.PASS.BL.5.5 5*	1
4201 1	MC SCREWDR.PH 1 PASS BLADE 5*	1
4201 2	MC SCREWDR.PH 2 PASS BLADE 5*	1
4319 9	1/4"BI-SAFE+HOLD.RAT.31PCS.5*	1
4379 9	SCREWDRIVER BIT SET 8PCS.5*	1
4650 250	KNIP-COBRA WAPO.PLIERS250MM 5*	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 ROSEWO.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



Article No.	Article Description	QTY
4998 9003 4	TOOL.RANGE CARRY SET CARPENTER	1

Hexagon Head Screw 8.8 M5/M6, GA **VAROBOXX**

- Assortment in VAROBOXX 1
- Contents: DIN 933, 934, 125, 127
- Fully threaded
- Strength class 8.8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1011 5 30	HEX HD SCR. 933 8.8 GA 5X 30	150
1011 5 50	HEX HD SCR. 933 8.8 GA 5X 50	100
1011 5 70	HEX HD SCR. 933 8.8 GA 5X 70	50
1011 6 30	HEX HD SCR. 933 8.8 GA 6X 30	150
1011 6 50	HEX HD SCR. 933 8.8 GA 6X 50	50
1011 6 80	HEX HD SCR. 933 8.8 GA 6X 80	50
2001 5	HEX NUT 934-8 GA 5	100
2001 6	HEX NUT 934-8 GA 6	100
2301 5	WASHER 125 A GA 5	200
2301 6	WASHER 125 A GA 6	200
2331 5 12	PANEL REP WASHER GA 5X12	200
2331 6 18	PANEL REP WASHER GA 6X18	200
2501 5	SPRING WASHER 127 GA 5	200
2501 6	SPRING WASHER 127 GA 6	200
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	4
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	3
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	6



Article No.	Article Description	QTY
9003 1011 1	VAROBOXX HEX-SCREW M5/M6 GALV.	1

Hexagon Head Screw 8.8, M8/M10, GA **VAROBOXX**

- Assortment in VAROBOXX 1
- Contents: DIN 933, 934, 125, 127
- Fully threaded
- Strength class 8.8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1011 8 30	HEX HD M.SCREW933 8.8 GA 8X 30	50
1011 8 50	HEX HD M.SCREW933 8.8 GA 8X 50	50
1011 8 80	HEX HD SCR. 933 8.8 GA 8X 80	25
1011 10 30	HEX HD M.SCREW933 8.8 GA 10X30	50
1011 10 50	HEX HD M.SCREW933 8.8 GA 10X50	25
1011 10 80	HEX HD SCR. 933 8.8 GA 10X 80	25
2001 8	HEX NUT 934-8 GA 8	100
2001 10	HEX NUT 934-8 GA 10	100
2301 8	WASHER 125 A GA 8	200
2301 10	WASHER 125 A GA 10	200
2331 8 20	PANEL REP WASHER GA 8X20	200
2331 10 20	PANEL REP WASHER GA 10X20	200
2501 8	SPRING WASHER 127 GA 8	200
2501 10	SPRING WASHER 127 GA 10	200
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	4
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	3
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	6



Article No.	Article Description	QTY
9003 1011	VAROBOXX HEX-SCREW M8/10 GALV.	1

Oval Head Screw 4.8 M4-M6, GA **VAROBOXX**

- Assortment in VAROBOXX 1
- Contents: DIN 7985, 934, 125
- Corresponds to ISO 7045
- Drive: PZ
- Strength class 4.8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1231 4 16	OVAL HD SCREW 7985 GA 4X 16	200
1231 4 20	OVAL HD SCREW 7985 GA 4X 20	200
1231 4 30	OVAL HD SCREW 7985 GA 4X 30	100
1231 5 16	OVAL HD SCREW 7985 GA 5X 16	200
1231 5 20	OVAL HD SCREW 7985 GA 5X 20	200
1231 5 30	OVAL HD SCREW 7985 GA 5X 30	100
1231 6 16	OVAL HD SCREW 7985 GA 6X 16	200
1231 6 20	OVAL HD SCREW 7985 GA 6X 20	200
1231 6 30	OVAL HD SCREW 7985 GA 6X 30	100
2001 4	HEX NUT 934-8 GA 4	500
2001 5	HEX NUT 934-8 GA 5	500
2001 6	HEX NUT 934-8 GA 6	500
2301 4	WASHER 125 A GA 4	500
2301 5	WASHER 125 A GA 5	500
2301 6	WASHER 125 A GA 6	500
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	4
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	3
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	6



Article No.	Article Description	QTY
9003 1231	VAROBOXX OVAL HEAD SCREW M4-M6	1

Oval Head Screw 7985 4.8 M3-M8, GA **VAROBOXX**

- Assortment in VAROBOXX 1
- Contents: DIN 7985
- Corresponds to ISO 7045
- Drive: PZ
- Strength class 4.8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1231 3 20	OVAL HEAD SCREW 7985 GA 3X 20	300
1231 4 10	OVAL HEAD SCREW 7985 GA 4X 10	300
1231 4 16	OVAL HD SCREW 7985 GA 4X 16	200
1231 4 20	OVAL HD SCREW 7985 GA 4X 20	150
1231 4 30	OVAL HD SCREW 7985 GA 4X 30	100
1231 4 40	OVAL HEAD SCREW 7985 GA 4X 40	100
1231 4 50	OVAL HEAD SCREW 7985 GA 4X 50	100
1231 5 16	OVAL HD SCREW 7985 GA 5X 16	100
1231 5 20	OVAL HD SCREW 7985 GA 5X 20	100
1231 5 30	OVAL HD SCREW 7985 GA 5X 30	100
1231 5 40	OVAL HEAD SCREW 7985 GA 5X 40	50
1231 5 50	OVAL HEAD SCREW 7985 GA 5X 50	50
1231 6 16	OVAL HD SCREW 7985 GA 6X 16	100
1231 6 20	OVAL HD SCREW 7985 GA 6X 20	100
1231 6 30	OVAL HD SCREW 7985 GA 6X 30	100
1231 6 40	OVAL HEAD SCREW 7985 GA 6X 40	100
1231 6 50	OVAL HEAD SCREW 7985 GA 6X 50	50
1231 8 20	OVAL HEAD SCREW 7985 GA 8X 20	100
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	4
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	9
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	3



Article No.	Article Description	QTY
9003 1231 1	VAROBOX CSK-PH-SCREW M3-M8 GA	1

Washers, GA VAROBOXX

- Assortment in VAROBOXX 1
- Contents: DIN 125 Shape A, corresponds to ISO 7099/Shape B, corresponds to ISO 7089
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2301 4	WASHER 125 A GA 4	1000
2301 5	WASHER 125 A GA 5	1000
2301 6	WASHER 125 A GA 6	500
2301 8	WASHER 125 A GA 8	300
2301 10	WASHER 125 A GA 10	100
2301 12	WASHER 125 A GA 12	100
2303 4	WASHER DIN 125 B GA 4	1000
2303 5	WASHER DIN 125 B GA 5	1000
2303 6	WASHER DIN 125 B GA 6	1000
2303 8	WASHER DIN 125 B GA 8	500
2303 10	WASHER DIN 125 B GA 10	300
2303 12	WASHER DIN 125 B GA 12	100
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	2
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	1
9004 1 5 20	INS.BOX ORAN.5X20CM VAROBOXX 1	1
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	6



Article No.	Article Description	QTY
9003 2301 2303	VAROBOXX WASHER 125 SHAPE:A/B	1

Nuts/Washers, GA VAROBOXX

- Assortment in VAROBOXX 1
- Contents: DIN 934-8, corresponds to ISO 4032/DIN 125, corresponds to ISO 7089
- Strength class 8
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2001 5	HEX NUT 934-8 GA 5	900
2001 6	HEX NUT 934-8 GA 6	600
2001 8	HEX NUT 934-8 GA 8	300
2001 10	HEX NUT 934-8 GA 10	200
2001 12	HEX NUT 934-8 GA 12	100
2301 5	WASHER 125 A GA 5	900
2301 6	WASHER 125 A GA 6	600
2301 8	WASHER 125 A GA 8	300
2301 10	WASHER 125 A GA 10	200
2301 12	WASHER 125 A GA 12	100
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 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	5



Article No.	Article Description	QTY
9003 2001 2301	VAROBOXX NUT/WASH.DIN125/934-8	1

Self-Tapping Screw, GA **VAROBOXX**

- Assortment in VAROBOXX 1
- Contents: DIN 7981 C
- Corresponds to ISO 7049
- Drive: PH
- Case-hardened
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1311 29 95	SELF-TAP.SCREW 7981 GA 2.9X9.5	800
1311 35 65	SELF-TAP.SCREW 7981 GA 3.5X6.5	600
1311 35 95	SELF-TAP.SCREW 7981 GA 3.5X9.5	500
1311 35 13	SELF-TAP.SCREW 7981 GA 3.5X 13	300
1311 35 16	SELF-TAP.SCREW 7981 GA 3.5X 16	300
1311 35 19	SELF-TAP.SCREW 7981 GA 3.5X 19	300
1311 35 22	SELF-TAP.SCREW 7981 GA 3.5X 22	300
1311 39 95	SELF-TAP.SCREW 7981 GA 3.9X9.5	400
1311 39 13	SELF-TAP.SCREW 7981 GA 3.9X 13	300
1311 39 16	SELF-TAP.SCREW 7981 GA 3.9X 16	500
1311 39 22	SELF-TAP.SCREW 7981 GA 3.9X 22	400
1311 39 25	SELF-TAP.SCREW 7981 GA 3.9X 25	400
1311 42 95	SELF-TAP.SCREW 7981 GA 4.2X9.5	300
1311 42 13	SELF-TAP.SCREW 7981 GA 4.2X 13	300
1311 42 16	SELF-TAP.SCREW 7981 GA 4.2X 16	200
1311 42 19	SELF-TAP.SCREW 7981 GA 4.2X 19	200
1311 42 22	SELF-TAP.SCREW 7981 GA 4.2X 22	200
1311 42 25	SELF-TAP.SCREW 7981 GA 4.2X 25	200
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	4
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	9
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	3



Article No.	Article Description	QTY
9003 1311	VAROBOXX SELF-TAPP.SCR.7981 GA	1

Self-Drilling Screw Panhead, GA **VAROBOXX**

- Assortment in VAROBOXX 1
- Contents: DIN 7504 M
- Drive: PH
- Galvanised steel

Contents

Article No.	Article Description	Quantity
1351 35 95	PAN HD SD SCR. 7504M GA3.5X9.5	300
1351 35 13	PAN HD SD SCR. 7504M GA 3.5X13	300
1351 35 16	PAN HD SD SCR. 7504M GA 3.5X16	200
1351 39 13	PAN HD SD SCR. 7504M GA 3.9X13	150
1351 39 16	PAN HD SD SCR. 7504M GA 3.9X16	100
1351 39 19	PAN HD SD SCR. 7504M GA 3.9X19	100
1351 39 25	PAN HD SD SCR. 7504M GA 3.9X25	100
1351 42 13	PAN HD SD SCR. 7504M GA 4.2X13	100
1351 42 16	PAN HD SD SCR. 7504M GA 4.2X16	100
1351 42 19	PAN HD SD SCR. 7504M GA 4.2X19	200
1351 42 22	PAN HD SD SCR. 7504M GA 4.2X22	200
1351 42 25	PAN HD SD SCR. 7504M GA 4.2X25	200
1351 48 16	PAN HD SD SCR. 7504M GA 4.8X16	100
1351 48 19	PAN HD SD SCR. 7504M GA 4.8X19	100
1351 48 22	PAN HD SD SCR. 7504M GA 4.8X22	100
1351 48 25	PAN HD SD SCR. 7504M GA 4.8X25	100
1351 48 32	PAN HD SD SCR. 7504M GA 4.8X32	50
1351 48 38	PAN HD SD SCR. 7504M GA 4.8X38	100
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	4
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	9
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	3



Article No.	Article Description	QTY
9003 1351	VAROBOXX CSK-PH-DRILL.SCREW GA	1

Blind Rivet with Flat Head **VAROBOXX**

- Assortment in VAROBOXX 1
- Rivet sleeve: aluminium
- Rivet mandrel: galvanised steel

Contents

Article No.	Article Description	Quantity
2710 3 4	BLIND RIV.TRUSS-HD AL/ST 3X4	100
2710 3 6	BLIND RIV.TRUSS-HD AL/ST 3X6	200
2710 3 8	BLIND RIV.TRUSS-HD AL/ST 3X8	100
2710 3 10	BLIND RIV.TRUSS-HD AL/ST 3X10	100
2710 3 12	BLIND RIV.TRUSS-HD AL/ST 3X12	100
2710 4 6	BLIND RIV.TRUSS-HD AL/ST 4X6	100
2710 4 8	BLIND RIV.TRUSS-HD AL/ST 4X8	100
2710 4 10	BLIND RIV.TRUSS-HD AL/ST 4X10	100
2710 4 12	BLIND RIV.TRUSS-HD AL/ST 4X12	100
2710 4 16	BLIND RIV.TRUSS-HD AL/ST 4X16	100
2710 5 8	BLIND RIV.TRUSS-HD AL/ST 5X8	100
2710 5 10	BLIND RIV.TRUSS-HD AL/ST 5X10	100
2710 5 12	BLIND RIV.TRUSS-HD AL/ST 5X12	100
2710 5 16	BLIND RIV.TRUSS-HD AL/ST 5X16	100
2710 5 18	BLIND RIV.TRUSS-HD AL/ST 5X18	100
2722 1	HAND RIVET GUN MFX150B	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	4
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	9
9004 1 10 30	INSETB.D-GR.10X30CM VAROBOXX 1	1



Article No.	Article Description	QTY
9003 2710	VAROBOXX FHD-BLIND RIVET AL/ST	1

Wood Screws 4/4.5 TX, Ribbed GA **VAROBOXX**

- Assortment in VAROBOXX 1
- Partly thread
- Wood screws are especially suitable for solid wood
- Yellow galvanised steel

Contents

Article No.	Article Description	Quantity
1628 4 20	FSK-TX20 WOSCR.FT YELLOW 4X 20	250
1628 4 25	FSK-TX20 WOSCR.FT YELLOW 4X 25	200
1628 4 30	FSK-TX20 WOSCR.PT YELLOW 4X 30	200
1628 4 35	FSK-TX20 WOSCR.PT YELLOW 4X 35	125
1628 4 40	FSK-TX20 WOSCR.PT YELLOW 4X 40	250
1628 4 45	FSK-TX20 WOSCR.PT YELLOW 4X 45	125
1628 4 50	FSK-TX20 WOSCR.PT YELLOW 4X 50	125
1628 4 60	FSK-TX20 WOSCR.PT YELLOW 4X 60	200
1628 45 45	FSK-TX25 WOSCR.PT YELLOW4.5X45	200
1628 45 50	FSK-TX25 WOSCR.PT YELLOW4.5X50	200
1628 45 60	FSK-TX25 WOSCR.PT YELLOW4.5X60	100
1628 45 70	FSK-TX25 WOSCR.PT YELLOW4.5X70	100
1628 45 80	FSK-TX25 WOSCR.PT YELLOW4.5X80	100
4303 20	1/4"TX-BITS 25MM TX 20	10
4303 25	1/4"TX-BITS 25MM TX 25	10
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	5
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	3
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	6



Article No.	Article Description	QTY
9003 1628 1	VAROBOXX WOODSCR.TX 4/4.5MM GA	1

Cylinder Saws HSS bi-metal **VAROBOXX**

- In VAROBOXX 2
- Max. cutting depth: 38 mm
- Application in cast iron, steel, copper, bronze, aluminum, plastics, plasterboard and wood
- 1 each cylinder saw Ø 19, 22, 30, 35, 40, 44, 51, 60, 68, 76, 83, 92, 95, 102 and 114 mm
- 1 each shank AS 2 (Ø 19–30 mm) and AS 3 (Ø 35–114 mm)
- 1 centre drill

Contents

Article No.	Article Description	Quantity
5750 19	BI-METAL CYLINDER CUTTER 19	1
5750 22	BI-METAL CYLINDER CUTTER 22	1
5750 30	BI-METAL CYLINDER CUTTER 30	1
5750 35	BI-METAL CYLINDER CUTTER 35	1
5750 40	BI-METAL CYLINDER CUTTER 40	1
5750 44	BI-METAL CYLINDER CUTTER 44	1
5750 51	BI-METAL CYLINDER CUTTER 51	1
5750 60	BI-METAL CYLINDER CUTTER 60	1
5750 68	BI-METAL CYLINDER CUTTER 68	1
5750 76	BI-METAL CYLINDER CUTTER 76	1
5750 83	BI-METAL CYLINDER CUTTER 83	1
5750 92	BI-METAL CYLINDER CUTTER 92	1
5750 95	BI-METAL CYLINDER CUTTER 95	1
5750 102	BI-METAL CYLINDER CUTTER 102	1
5750 114	BI-METAL CYLINDER CUTTER 114	1
5751 2	SHANK AS 2	1
5751 3	SHANK AS 3	1
5751 80	CENTRE DRILL 6.35X80MM	1
9003 2	VAROBOXX SIZE:2 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 2 5	CYLINDER SAW INSERT VAROBOXX2	1



Article No.	Article Description	QTY
9003 5750	VAROBOXX CYLINDER SAWS 19-114	1

Cutting and Grinding Pack 36-pce **VAROBOXX**

- Assortment in VAROBOXX 1
- Package with custom range of components for cutting, grinding and rough machining
- Cercore cutting disc with highest cutting performance and service life
- Cool Vision rough machining disc for precise work
- Hard vulcanised fibre discs for highest stripping performance
- Efficient lamellar disc with plastic backing plate that can be cut to size
- Red non-woven web and vulcanised fibre discs with ceramic grain
- Cutting, grinding and rough machining discs for steel, stainless steel and non-ferrous metals
- Safety at work with earplugs and Eta Klar safety goggles
- Suitable angle grinder: Art. No. 5325 5, 125 27

Contents

Article No.	Article Description	Quantity
5400 907 1	"ETA" CLEAR SAFETY GLASSES	1
5402 4 10	P(10P)EAR PLUGS SZ.L	1
5803 125 12	PROF.CUTTING DISC ALU 125X1.2	5
5803 7 125 60	GRIND.DISC ALU 125X6.0	1
5804 125 30	GRIND.DISC GREEN FLOW 125X3.0	2
5808 5 125 10	CUTT.DISC ST/INOX 125X1.0 5*	5
5808 5 125 10 1	CUTT.DI.ST/SS CERCORE125/10 5*	5
5809 125 40	GRINDING D.COOL VISION 125X4.0	2
5811 125 19	CUT.+GRIND. DISC 2IN1 125X1.9	2
5814 5 125 70	GRIND.DISC STE/INOX 125X7.0 5*	1
5901 1	BACK UP PAD M14 125MM	1
5901 2 36	VUL.FIB.DISC CERAM.D125 P36 5*	5
5902 125 36	TOUGH VULCAN FIBRE D. D125 P36	1
5949 5 125 40	LAM. D. EFFICIENT 125 P40 5*	1
5959 125 4	NYL/CER GR.FL.GWT RED125MM 5*	1
5972 125 40	LAMELL.DISC INOX 5* 125 S P40	1
5973 125 7	STR.FL.C.D.R.GWT 125X22 5*	1
9003 1	VAROBOXX SIZE:1 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	1
9004 1 2	CUTTING DISC INSETB.VAROBOXX1	4



Article No.	Article Description	QTY
9003 5808 35	VAROBOXX CUTT-GRINDPAP.36-PCE	1

VAROIBOXX

- transparent lid for quick identification of contents
- strong design – high quality „Made in Germany“
- any division using inset boxes possible
- for division using inset boxes at least one grey inset box item no. 9008 75 260 is required
- optimally combined with VAROBOXX LS
- External dimensions (WxDxH): 367 × 316 × 72 mm
- internal dimensions (WxDxH): approx. 340 × 260 × 63 mm
- Max. load of each single box: 5 kg
- weight: 0.9 kg



Article No.	Article Description	QTY
9008 1	VAROIBOXX EMPTY	1

Drawer VAROBOXX LS

- stable high-quality „Made in Germany“ design
- any division using inset box possible
- for division with inset boxes at least one grey inset box item no. 9008 75 260 is required
- optimally combined with VAROBOXX LS
- external dimensions (W × D × H): 367 × 316 × 72 mm
- Internal dimensions (W × D × H): 353 × 268 × 70 mm
- Max. load of the drawer: 5 kg
- weight approx.: 550 g



Article No.	Article Description	QTY
9003 5 1	VAROBOXX LS/RACK DRAWER	1

Rack, Block of 3 **VAROiBOXX**

- compatible with all VAROBOXSES
- click system in bottom segment, other segments separable using a screwdriver
- individual segment easily extendable with rack
- drawer suitable for VAROBOXX or VAROBOXX LS drawer
- made from shock and impact resistant ABS plastic
- may also be used as a vehicle or workshop shelf
- outer dimension (W x D x H): 442 x 337 x 307 mm
- weight: 3.70 kg

Article No.	Article Description	QTY
9008 3	VAROiBOXX RACK BLOCK OF 3	1



Rack, Block of 5 **VAROiBOXX**

- compatible with all VAROBOXSES
- click system in bottom segment, other segments separable using a screwdriver
- individual segment easily extendable with rack
- drawer suitable for VAROBOXX or VAROBOXX LS drawer
- made from shock and impact resistant ABS plastic
- may also be used as a vehicle or workshop shelf
- outer dimension (W x D x H): 442 x 337 x 475 mm
- weight: 5.75 kg

Article No.	Article Description	QTY
9008 5	VAROiBOXX RACK BLOCK OF 5	1



Rack, Individual Segment **VAROiBOXX**

- compatible with all VAROBOXSES
- click system
- expandable
- insertion compartment suitable for VAROiBOXX or VAROBOXX LS drawer
- made from shock and impact-resistant ABS plastic
- can also be used as a vehicle or workshop shelf
- External dimensions (WxDxH): 442 × 340 × 100 mm
- Weight: 0.98 kg



Article No.	Article Description	QTY
9008 4	VAROiBOXX RACK INDIV.SEGMENT	1

Rack, Lid **VAROiBOXX**

- for VAROBOXX rack individual segment
- made from shock and impact-resistant ABS plastic
- external dimensions (WxDxH): 442 × 340 × 100 mm
- Weight: 0.88 kg



Article No.	Article Description	QTY
9008 6	VAROiBOXX RACK LID	1

Wall Bracket, **VAROiBOXX**

- Suitable for securing the VAROiBOXX to walls or inside vehicles
- Ideal in conjunction with the VAROiBOXX first aid boxes Art. no. 9007 13157 and 9007 13169
- Made from ABS plastic
- Dimensions: 325 × 355 × 47 mm
- Weight: 0.394 kg

Art. No. 9008 7 2:

- Mounting set suitable for the VAROMOBIL module



Article No.	Article Description	QTY
9008 7	VAROiBOXX WALL BRACKET	1
9008 7 2	VAROiBOXX MOUNT.SET WALL BRACK	1

Thermoformed Insert, 4 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 4 compartments (4 compartments 156 × 115 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 4	VAROiBOXX THERMOF.INS.4COMP.	1



Thermoformed Insert, 7 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 7 compartments
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 7	VAROiBOXX THERMOF.INS.7COMP.	1



Thermoformed Insert, 8 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 8 compartments (8 compartments 118 × 76,5 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1



Thermoformed Insert, 9 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 9 compartments (4 compartments 324 × 32 mm / 4 compartments 230 × 18 mm / 1 compartment 90 × 88 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 9	VAROiBOXX THERMOF.INS.9COMP.	1



Thermoformed Insert, 12 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 12 compartments (12 compartments 77 × 77 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1



Thermoformed Insert, 14 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 14 compartments (12 compartments 67 × 49 mm / 1 compartment 92 × 32 mm / 1 compartment 280 × 92 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 14	VAROiBOXX THERMOF.INS.14COMP.	1



Thermoformed Insert, 16 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-draw formed plastic
- With 16 compartments
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 16	VAROiBOXX THERMOF.INS.16COMP.	1



Thermoformed Insert, 18 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 18 compartments (18 compartments 71 × 43 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 18	VAROiBOXX THERMOF.INS.18COMP.	1



Thermoformed Insert, 20 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 20 compartments (each 2 compartments 169.75 / 157.75 / 145.75 / 133.75 / 121.75 / 109.75 / 97.45 / 85.75 / 72.45 / 64.93 x 26.80 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer



Article No.	Article Description	QTY
9008 1 20	VAROiBOXX THERMOF.INS.20COMP.	1

Inset Box, Grey **VAROiBOXX**

- Type I3
- Dimensions (W x D x H): 260 x 78 x 63 mm
- suitable for VAROiBOXX



Article No.	Article Description	QTY
9008 75 260	VAROiBOXX INSET.B.GREY7.5X26MM	1

Partition Inset Box, Grey **VAROiBOXX**

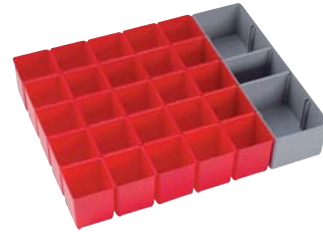
- Type I3
- suitable for VAROiBOXX



Article No.	Article Description	QTY
9008 75 260 1	PART.INSERT BOX GREY VARIOBOXX	1

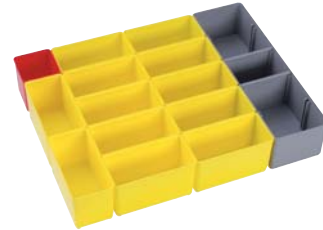
Inset Box Set, Red **VAROiBOXX**

Article No.	Article Description	QTY
9008 2 28	INSET BOX RED VARIOBOX	1



Inset Box Set, Yellow/Red **VAROiBOXX**

Article No.	Article Description	QTY
9008 2 16	INSET BOX YELL/RD VARIOBOX	1



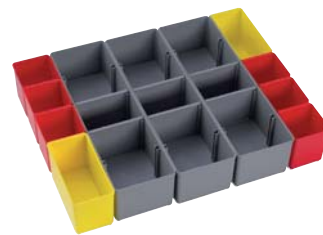
Inset Box Set, Blue/Yellow/Red **VAROiBOXX**

Article No.	Article Description	QTY
9008 2 14	INSET BOX BU/YE/RD VARIOBOX	1



Inset Box Set, Grey/Yellow/Red **VAROiBOXX**

Article No.	Article Description	QTY
9008 2 17	INSET BOX GN/YE/RD VARIOBOX	1



Inset Box Set, All Colours **VAROiBOXX**

Article No.	Article Description	QTY
9008 2 12	INSET BOX ALL COLOU.VARIOBOX	1



Hexagon Head Bolts DIN 931, 8.8 GV **VAROiBOXX**

- 290 pieces
- Complies with ISO 4014
- with shank
- Strength class 8.8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1001 6 30	HEX HD BOLT 931 8.8 GA 6X 30	50
1001 6 40	HEX HD BOLT 931 8.8 GA 6X 40	50
1001 6 50	HEX HD BOLT 931 8.8 GA 6X 50	20
1001 6 60	HEX HD BOLT 931 8.8 GA 6X 60	20
1001 8 35	HEX HD BOLT 931 8.8 GA 8X 35	20
1001 8 40	HEX HD BOLT 931 8.8 GA 8X 40	20
1001 8 50	HEX HD BOLT 931 8.8 GA 8X 50	20
1001 8 60	HEX HD BOLT 931 8.8 GA 8X 60	20
1001 10 40	HEX HD BOLT 931 8.8 GA 10X 40	20
1001 10 45	HEX HD BOLT 931 8.8 GA 10X 45	20
1001 10 50	HEX HD BOLT 931 8.8 GA 10X 50	20
1001 10 60	HEX HD BOLT 931 8.8 GA 10X 60	10
9008 1	VAROiBOXX EMPTY	1
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1



Article No.	Article Description	QTY
9007 1001	VAROiBOXX HEX HD BOLT931 8.8GV	1

Hexagon Head Bolts DIN 933 8.8, GV **VAROiBOXX**

- 350 pieces
- Complies with ISO 4017
- With thread to head
- Strength class 8.8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1011 6 16	HEX HD M.SCREW933 8.8 GA 6X 16	50
1011 6 20	HEX HD M.SCREW933 8.8 GA 6X 20	50
1011 6 25	HEX HD M.SCREW933 8.8 GA 6X 25	25
1011 6 30	HEX HD SCR. 933 8.8 GA 6X 30	25
1011 8 16	HEX HD SCR. 933 8.8 GA 8X 16	50
1011 8 20	HEX HD SCREW933 8.8 GA 8X 20	50
1011 8 25	HEX HD M.SCREW933 8.8 GA 8X 25	25
1011 8 40	HEX HD M.SCREW933 8.8 GA 8X 40	20
1011 10 20	HEX HD SCR. 933 8.8 GA 10X 20	20
1011 10 25	HEX HD M.SCREW933 8.8 GA 10X25	20
1011 10 30	HEX HD M.SCREW933 8.8 GA 10X30	20
1011 10 40	HEX HD M.SCREW933 8.8 GA 10X40	20
9008 1	VAROiBOXX EMPTY	1
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 1011	VAROiBOXX HEX HD BOLT933 8.8GV	1



Hexagon Head Bolts DIN 933, Stainl.St.A2 **VAROiBOXX**

- 380 pieces
- Complies with ISO 4017
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
1015 6 16	HEX HD SCR. 933 A2 6X 16	50
1015 6 20	HEX HD SCR. 933 A2 6X 20	50
1015 6 25	HEX HD SCR. 933 A2 6X 25	25
1015 6 30	HEX HD SCR. 933 A2 6X 30	25
1015 8 16	HEX HD SCR. 933 A2 8X 16	50
1015 8 20	HEX HD SCR. 933 A2 8X 20	50
1015 8 25	HEX HD SCR. 933 A2 8X 25	25
1015 8 40	HEX HD SCR. 933 A2 8X 40	25
1015 10 20	HEX HD SCR. 933 A2 10X 20	20
1015 10 25	HEX HD SCR. 933 A2 10X 25	20
1015 10 30	HEX HD SCR. 933 A2 10X 30	20
1015 10 40	HEX HD SCR. 933 A2 10X 40	20
9008 1	VAROiBOXX EMPTY	1
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 1015	VAROiBOXX HEX HD BOLT 933 A2	1



Screws / Nuts / Washers, GA **VARO iBOXX**

- 1,210 pieces
- Zinc-plated steel

Contents

Article No.	Article Description	Quantity
1011 6 20	HEX HD M.SCREW933 8.8 GA 6X 20	50
1011 6 50	HEX HD SCR. 933 8.8 GA 6X 50	50
1011 8 20	HEX HD SCREW933 8.8 GA 8X 20	50
1011 8 50	HEX HD M.SCREW933 8.8 GA 8X 50	20
1011 10 25	HEX HD M.SCREW933 8.8 GA 10X25	20
1011 10 50	HEX HD M.SCREW933 8.8 GA 10X50	20
2001 6	HEX NUT 934-8 GA 6	300
2001 8	HEX NUT 934-8 GA 8	150
2001 10	HEX NUT 934-8 GA 10	50
2301 6	WASHER 125 A GA 6	300
2301 8	WASHER 125 A GA 8	150
2301 10	WASHER 125 A GA 10	50
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1



Article No.	Article Description	QTY
9007 1	VAROIBOXX SCR./NUTS/WASHERS GA	1

Hex Socket Cap Screws DIN 912 8.8, GV

VAROIBOXX

- 310 pieces
- Complies with ISO 4762
- With socket head
- Strength class 8.8
- Galvanised steel

Contents

Article No.	Article Description	Quantity
1151 6 16	HEX SO. CAP 912 8.8 ZI 6X16	50
1151 6 20	HEX SO. CAP 912 8.8 ZI 6X20	50
1151 6 25	HEX SO. CAP 912 8.8 ZI 6X25	25
1151 6 30	HEX SO. CAP 912 8.8 ZI 6X30	25
1151 8 16	HEX SO. CAP 912 8.8 ZI 8X16	25
1151 8 20	HEX SO. CAP 912 8.8 ZI 8X20	25
1151 8 25	HEX SO. CAP 912 8.8 ZI 8X25	25
1151 8 40	HEX SO. CAP 912 8.8 ZI 8X40	25
1151 10 20	HEX SO. CAP 912 8.8 ZI 10X20	25
1151 10 25	HEX SO. CAP 912 8.8 ZI 10X25	20
1151 10 30	HEX SO. CAP 912 8.8 ZI 10X30	20
1151 10 40	HEX SO. CAP 912 8.8 ZI 10X40	20
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 1151	VAROIBOXX HEX SO.C.SC912 8.8GV	1



Hex Socket Cap Screws DIN 912, A2 VAROIBOXX

- 330 parts
- Complies with ISO 4762
- Stainless steel A2

Contents

Article No.	Article Description	Quantity
1155 6 16	HEX SO. CAP 912 A2 6X16	50
1155 6 20	HEX SO. CAP 912 A2 6X20	25
1155 6 25	HEX SO. CAP 912 A2 6X25	25
1155 6 30	HEX SO. CAP 912 A2 6X30	25
1155 8 16	HEX SO. CAP 912 A2 8X16	50
1155 8 20	HEX SO. CAP 912 A2 8X20	25
1155 8 25	HEX SO. CAP 912 A2 8X25	25
1155 8 40	HEX SO. CAP 912 A2 8X40	20
1155 10 20	HEX SO. CAP 912 A2 10X20	25
1155 10 25	HEX SO. CAP 912 A2 10X25	20
1155 10 30	HEX SO. CAP 912 A2 10X30	20
1155 10 40	HEX SO. CAP 912 A2 10X40	20
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 1155	VAROIBOXX HEX SO.CAP SC 912 A2	1



Hex Socket CSK CAP Screws DIN7991 8.8

GV **VARO**iBOXX

- 450 parts
- Complies with ISO 10462
- With countersunk head
- Strength class 8.8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1161 6 16	HEX SO. COUNT 7991 8.8ZP 6X16	50
1161 6 20	HEX SO. COUNT 7991 8.8ZP 6X20	50
1161 6 25	HEX SO. COUNT 7991 8.8ZP 6X25	50
1161 6 30	HEX SO. COUNT 7991 8.8ZP 6X30	25
1161 8 16	HEX SO. COUNT 7991 8.8ZP 8X16	50
1161 8 20	HEX SO. COUNT 7991 8.8ZP 8X20	50
1161 8 25	HEX SO. COUNT 7991 8.8ZP 8X25	50
1161 8 40	HEX SO. COUNT 7991 8.8ZP 8X40	25
1161 10 20	HEX SO. COUNT 7991 8.8ZP 10X20	25
1161 10 25	HEX SO. COUNT 7991 8.8ZP 10X25	25
1161 10 30	HEX SO. COUNT 7991 8.8ZP 10X30	25
1161 10 40	HEX SO. COUNT 7991 8.8ZP 10X40	25
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1



Article No.	Article Description	QTY
9007 1161	VAROIBOXX HEX SO.CAP.SC7991 GV	1

Countersunk Head Screws DIN 965, GV **VARO**iBOXX

- 1.000 parts
- Complies with ISO 7046
- With PH pan head
- Strength class 4.8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1241 4 10	PH COUNT HD SCR. 965 ZP 4X10	100
1241 4 16	PH COUNT HD SCR. 965 ZP 4X16	100
1241 4 20	PH COUNT HD SCR. 965 ZP 4X20	100
1241 4 30	PH COUNT HD SCR. 965 ZP 4X30	100
1241 5 10	PH COUNT HD SCR. 965 ZP 5X10	100
1241 5 16	PH COUNT HD SCR. 965 ZP 5X16	100
1241 5 20	PH COUNT HD SCR. 965 ZP 5X20	100
1241 5 30	PH COUNT HD SCR. 965 ZP 5X30	50
1241 6 10	PH COUNT HD SCR. 965 ZP 6X10	100
1241 6 16	PH COUNT HD SCR. 965 ZP 6X16	50
1241 6 20	PH COUNT HD SCR. 965 ZP 6X20	50
1241 6 25	PH COUNT HD SCR. 965 ZP 6X25	50
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1



Article No.	Article Description	QTY
9007 1241	VAROIBOXX PH COUNT HD SC 965GV	1

Self-Tapping Screws DIN 7981/7983, GV **VAROiBOXX**

- 1.600 parts
- Complies with ISO 7049
- with PH pan head
- Case-hardened
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1311 35 95	SELF-TAP.SCREW 7981 GA 3.5X9.5	100
1311 35 13	SELF-TAP.SCREW 7981 GA 3.5X 13	100
1311 35 16	SELF-TAP.SCREW 7981 GA 3.5X 16	100
1311 35 19	SELF-TAP.SCREW 7981 GA 3.5X 19	100
1311 42 13	SELF-TAP.SCREW 7981 GA 4.2X 13	100
1311 42 16	SELF-TAP.SCREW 7981 GA 4.2X 16	100
1311 42 19	SELF-TAP.SCREW 7981 GA 4.2X 19	100
1311 42 22	SELF-TAP.SCREW 7981 GA 4.2X 22	50
1311 48 13	OV.PH SH.MET.SCR.7981 GA4.8X13	100
1311 48 16	OV.PH SH.MET.SCR.7981 GA4.8X16	100
1311 48 19	OV.PH SH.MET.SCR.7981 GA4.8X19	100
1311 48 22	OV.PH SH.MET.SCR.7981 GA4.8X22	50
1331 35 16	PH RSD CSK TAP.7983 GA 3.5X16	100
1331 35 19	PH RSD CSK TAP.7983 GA 3.5X19	100
1331 42 16	OV.PH SH.MET.SCR.7983 GA4.2X16	100
1331 42 22	OV.PH SH.MET.SCR.7983 GA4.2X22	50
1331 48 19	OV.PH SH.MET.SCR.7983 GA4.8X19	100
1331 48 22	OV.PH SH.MET.SCR.7983 GA4.8X22	50
9008 1	VAROiBOXX EMPTY	1
9008 1 18	VAROiBOXX THERMOF.INS.18COMP.	1



Article No.	Article Description	QTY
9007 131	VAROiBOXX SELF-T.SCR7981/83 GV	1

Self-Tapping Screws DIN 7981 GV **VARO**iBOXX

- 1,700 parts
- Complies with ISO 7049
- With PH pan head
- Case hardened
- **Galvanised Steel**

Contents

Article No.	Article Description	Quantity
1311 29 95	SELF-TAP.SCREW 7981 GA 2.9X9.5	100
1311 29 13	PH PANHD TAPSCR 7981GA 2.9X 13	100
1311 35 95	SELF-TAP.SCREW 7981 GA 3.5X9.5	100
1311 35 13	SELF-TAP.SCREW 7981 GA 3.5X 13	100
1311 35 16	SELF-TAP.SCREW 7981 GA 3.5X 16	100
1311 35 19	SELF-TAP.SCREW 7981 GA 3.5X 19	100
1311 39 13	SELF-TAP.SCREW 7981 GA 3.9X 13	100
1311 39 16	SELF-TAP.SCREW 7981 GA 3.9X 16	100
1311 39 19	OV.PH SH.MET.SCR.7981 GA3.9X19	100
1311 39 22	SELF-TAP.SCREW 7981 GA 3.9X 22	100
1311 42 13	SELF-TAP.SCREW 7981 GA 4.2X 13	100
1311 42 16	SELF-TAP.SCREW 7981 GA 4.2X 16	100
1311 42 19	SELF-TAP.SCREW 7981 GA 4.2X 19	100
1311 42 25	SELF-TAP.SCREW 7981 GA 4.2X 25	50
1311 48 13	OV.PH SH.MET.SCR.7981 GA4.8X13	100
1311 48 16	OV.PH SH.MET.SCR.7981 GA4.8X16	100
1311 48 19	OV.PH SH.MET.SCR.7981 GA4.8X19	100
1311 48 25	PH PANHD TAPSCR 7981GA 4.8X 25	50
9008 1	VAROIBOXX EMPTY	1
9008 1 18	VAROIBOXX THERMOF.INS.18COMP.	1



Article No.	Article Description	QTY
9007 1311	VAROIBOXX PH PANHD S.T.7981 GV	1

Self-Tapping Screws TX DIN 7981,GV **VARO**iBOXX

- 1,700 parts
- Complies with ISO 14585
- Drive: TX
- Case hardened
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1312 29 95	LH-TX10 SCR.7981 GALV.2.9X9.5	100
1312 29 13	LH-TX10 SCR.7981 GALV.2.9X 13	100
1312 35 95	LH-TX15 SCR.7981 GALV.3.5X9.5	100
1312 35 13	LH-TX15 SCR.7981 GALV.3.5X 13	100
1312 35 16	LH-TX15 SCR.7981 GALV.3.5X 16	100
1312 35 19	LH-TX15 SCR.7981 GALV.3.5X 19	100
1312 39 13	LH-TX20 SCR.7981 GALV.3.9X 13	100
1312 39 16	LH-TX20 SCR.7981 GALV.3.9X 16	100
1312 39 19	LH-TX20 SCR.7981 GALV.3.9X 19	100
1312 39 22	LH-TX20 SCR.7981 GALV.3.9X 22	100
1312 42 13	LH-TX20 SCR.7981 GALV.4.2X 13	100
1312 42 16	LH-TX20 SCR.7981 GALV.4.2X 16	100
1312 42 19	LH-TX20 SCR.7981 GALV.4.2X 19	100
1312 42 25	LH-TX20 SCR.7981 GALV.4.2X 25	50
1312 48 13	LH-TX25 SCR.7981 GALV.4.8X13	100
1312 48 16	LH-TX25 SCR.7981 GALV.4.8X16	100
1312 48 19	LH-TX25 SCR.7981 GALV.4.8X19	100
1312 48 25	LH-TX25 SCR.7981 GALV.4.8X25	50
9008 1	VAROIBOXX EMPTY	1
9008 1 18	VAROIBOXX THERMOF.INS.18COMP.	1



Article No.	Article Description	QTY
9007 1312	VAROIBOXX LH TX S.T.SCR.7981GV	1

Self-Tapp.PanHead Scr.7981 DIN7981,C,A2

VAROIBOXX

- 950 parts
- Countersunk pan head
- Complies with ISO 7049
- PH pan head
- Design C with pointed tip
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
1315 39 13	PH PAN HD SCR 7981 A2 3.9X13	100
1315 39 16	PH PAN HD SCR 7981 A2 3.9X16	100
1315 39 19	PH PAN HD SCR 7981 A2 3.9X19	100
1315 39 22	PH PAN HD SCR 7981 A2 3.9X22	100
1315 42 13	PH PAN HD SCR 7981 A2 4.2X13	100
1315 42 16	PH PAN HD SCR 7981 A2 4.2X16	100
1315 42 19	PH PAN HD SCR 7981 A2 4.2X19	100
1315 42 22	PH PAN HD SCR 7981 A2 4.2X22	50
1315 48 13	PH PAN HD SCR 7981 A2 4.8X13	50
1315 48 16	PH PAN HD SCR 7981 A2 4.8X16	50
1315 48 19	PH PAN HD SCR 7981 A2 4.8X19	50
1315 48 22	PH PAN HD SCR 7981 A2 4.8X22	50
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1



Article No.	Article Description	QTY
9007 1315	VAROIBOXX PH PANH.S.T.S.7981A2	1

Washer Hd.Self-Drill.Screws 7504 K, GV

VAROIBOXX

- 1,000 parts
- Hexagon head
- Galvanised steel

Contents

Article No.	Article Description	Quantity
1350 42 13	HEX SD SCR. 7504K ZP 4.2X13	100
1350 42 16	HEX SD SCR. 7504K ZP 4.2X16	100
1350 42 19	HEX SD SCR. 7504K ZP 4.2X19	100
1350 48 16	HEX SD SCR. 7504K ZP 4.8X16	100
1350 48 19	HEX SD SCR. 7504K ZP 4.8X19	100
1350 48 25	HEX SD SCR. 7504K ZP 4.8X25	100
1350 55 19	HEX SD SCR. 7504K ZP 5.5X19	100
1350 55 25	HEX SD SCR. 7504K ZP 5.5X25	100
1350 55 32	HEX SD SCR. 7504K ZP 5.5X32	50
1350 63 19	HEX SD SCR. 7504K ZP 6.3X19	50
1350 63 25	HEX SD SCR. 7504K ZP 6.3X25	50
1350 63 32	HEX SD SCR. 7504K ZP 6.3X32	50
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 1350	VAROIBOXX HX SD SCR.7504K GV	1



Nuts, Washers A, Spr.Lock, Washers, gv **VARO iBOXX**

- 2,900 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2001 4	HEX NUT 934-8 GA 4	300
2001 5	HEX NUT 934-8 GA 5	300
2001 6	HEX NUT 934-8 GA 6	300
2001 8	HEX NUT 934-8 GA 8	100
2301 4	WASHER 125 A GA 4	300
2301 5	WASHER 125 A GA 5	300
2301 6	WASHER 125 A GA 6	200
2301 8	WASHER 125 A GA 8	100
2501 4	SPRING WASHER 127 GA 4	300
2501 5	SPRING WASHER 127 GA 5	300
2501 6	SPRING WASHER 127 GA 6	300
2501 8	SPRING WASHER 127 GA 8	100
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 2	VAROIBOXX M/S/F 934/125A/127GV	1



Hex Nuts DIN 934-8, gv **VAROiBOXX**

- 900 pieces
- Complies with ISO 4032
- Strength class 8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
2001 4	HEX NUT 934-8 GA 4	200
2001 5	HEX NUT 934-8 GA 5	200
2001 6	HEX NUT 934-8 GA 6	200
2001 8	HEX NUT 934-8 GA 8	150
2001 10	HEX NUT 934-8 GA 10	50
2001 12	HEX NUT 934-8 GA 12	50
2001 14	HEX NUT 934-8 GA 14	25
2001 16	HEX NUT 934-8 GA 16	25
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2001	VAROiBOXX HEX NUTS 934-8 GV	1



Hex Nuts DIN 934, Stainless Steel A2 **VAROiBOXX**

- 900 pieces
- Complies with ISO 4032
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
2005 4	HEX NUT 934 A2 4	200
2005 5	HEX NUT 934 A2 5	200
2005 6	HEX NUT 934 A2 6	200
2005 8	HEX NUT 934 A2 8	150
2005 10	HEX NUT 934 A2 10	50
2005 12	HEX NUT 934 A2 12	50
2005 14	HEX NUT 934 A2 14	25
2005 16	HEX NUT 934 A2 16	25
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2005	VAROiBOXX HEX NUTS 934 A2	1



Hex Cap Nuts DIN 1587, Stainless St. A2 **VAROiBOXX**

- 440 pieces
- High type
- Hex cap nut
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
2065 4	HEX CAP NUT HIGH 1587 A2 4	100
2065 5	HEX CAP NUT HIGH 1587 A2 5	100
2065 6	HEX CAP NUT HIGH 1587 A2 6	100
2065 8	HEX CAP NUT HIGH 1587 A2 8	50
2065 10	HEX CAP NUT HIGH 1587 A2 10	25
2065 12	HEX CAP NUT HIGH 1587 A2 12	20
2065 14	HEX CAP NUT HIGH 1587 A2 14	15
2065 16	HEX CAP NUT HIGH 1587 A2 16	10
9008 1	VAROIBOXX EMPTY	1
9008 1 8	VAROIBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2065	VAROIBOXX HEX CAP N.H.1587 A2	1



Serrated Lock.Nuts DIN 6923,gv **VAROiBOXX**

- 675 pieces
- Strength class 8
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2073 4	SERRATED LOCKING NUT ZN M 4	250
2073 5	SERRATED LOCKING NUT ZN M 5	100
2073 6	SERRATED LOCKING NUT ZN M 6	100
2073 8	SERRATED LOCKING NUT ZN M 8	100
2073 10	SERRATED LOCKING NUT ZN M 10	50
2073 12	SERRATED LOCKING NUT ZN M 12	25
2073 14	SERRATED LOCKING NUT ZN M 14	25
2073 16	SERRATED LOCKING NUT ZN M 16	25
9008 1	VAROIBOXX EMPTY	1
9008 1 8	VAROIBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2073	VAROIBOXX SERR.LO.NUTS 6923 GV	1



Hex Nylock Nuts DIN 985-8,gv **VAROiBOXX**

- 650 pieces
- Complies with ISO 10511
- Strength class 8
- Self-locking with polyamide ring
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2101 4	NYLOCK NUT 985-8 4	100
2101 5	NYLOCK NUT 985-8 5	100
2101 6	NYLOCK NUT 985-8 6	150
2101 8	NYLOCK NUT 985-8 8	150
2101 10	NYLOCK NUT 985-8 10	50
2101 12	NYLOCK NUT 985-8 12	50
2101 14	NYLOCK NUT 985-8 14	25
2101 16	NYLOCK NUT 985-8 16	25
9008 1	VAROIBOXX EMPTY	1
9008 1 8	VAROIBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2101	VAROIBOXX HEX NYLOCK N.958-8GV	1



Hex Nylock Nuts DIN 985, Stainl.St.A2 **VAROiBOXX**

- 525 pieces
- Complies with ISO 10511
- With polyamide lock
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
2105 4	NYLOCK NUT 985 A2 4	100
2105 5	NYLOCK NUT 985 A2 5	100
2105 6	NYLOCK NUT 985 A2 6	100
2105 8	NYLOCK NUT 985 A2 8	100
2105 10	NYLOCK NUT 985 A2 10	50
2105 12	NYLOCK NUT 985 A2 12	25
2105 14	NYLOCK NUT 985 A2 14	25
2105 16	NYLOCK NUT 985 A2 16	25
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2105	VAROiBOXX HEX NYL.NUT 985-8 A2	1



Hex Spacer Sleeves, gv **VAROiBOXX**

- 180 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2202 6 25	HEX-DISTANCE SLEEVE GA M6X25	25
2202 6 30	HEX-DISTANCE SLEEVE GA M6X30	25
2202 8 25	HEX-DISTANCE SLEEVE GA M8X25	25
2202 8 30	HEX-DISTANCE SLEEVE GA M8X30	25
2202 10 30	HEX-DISTANCE SLEEVE GA M10X30	20
2202 10 40	HEX-DISTANCE SLEEVE GA M10X40	20
2202 12 30	HEX-DISTANCE SLEEVE GA M12X30	20
2202 12 40	HEX-DISTANCE SLEEVE GA M12X40	20
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2202	VAROiBOXX HEX SPACER SLEEV.GV	1



Washers DIN 125 Shape A, gv **VAROiBOXX**

- 1,050 pieces
- Complies with ISO 7089
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
2301 4	WASHER 125 A GA 4	200
2301 5	WASHER 125 A GA 5	200
2301 6	WASHER 125 A GA 6	200
2301 8	WASHER 125 A GA 8	200
2301 10	WASHER 125 A GA 10	100
2301 12	WASHER 125 A GA 12	50
2301 14	WASHER 125 A GA 14	50
2301 16	WASHER 125 A GA 16	50
9008 1	VAROIBOXX EMPTY	1
9008 1 8	VAROIBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2301	VAROIBOXX WASHERS 125A GV	1



Washers DIN 125, Stainless Steel A2 **VAROiBOXX**

- 850 pieces
- Complies with ISO 7089
- Shape A (without chamfer)
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
2305 4	WASHER 125 A2 4	200
2305 5	WASHER 125 A2 5	200
2305 6	WASHER 125 A2 6	100
2305 8	WASHER 125 A2 8	100
2305 10	WASHER 125 A2 10	100
2305 12	WASHER 125 A2 12	50
2305 14	WASHER 125 A2 14	50
2305 16	WASHER 125 A2 16	50
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2305	VAROiBOXX WASHERS 125 A2	1



Washers DIN 9012, gv **VAROiBOXX**

- 550 pieces
- Complies with ISO 7093
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
2311 4	WASHER 9021 GA 4	100
2311 5	WASHER 9021 ZI 5	100
2311 6	WASHER 9021 ZI 6	100
2311 8	WASHER 9021 ZI 8	100
2311 10	WASHER 9021 ZI 10	50
2311 12	WASHER 9021 ZI 12	50
2311 14	WASHER 9021 ZI 14	25
2311 16	WASHER 9021 ZI 16	25
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2311	VAROiBOXX WASHERS 9021 GV	1



Washers DIN 9021, Stainl.St. A2 **VAROiBOXX**

- 500 pieces
- Complies with ISO 7093
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
2315 4	WASHER 9021 A2 4	100
2315 5	WASHER 9021 A2 5	100
2315 6	WASHER 9021 A2 6	100
2315 8	WASHER 9021 A2 8	50
2315 10	WASHER 9021 A2 10	50
2315 12	WASHER 9021 A2 12	50
2315 14	WASHER 9021 A2 14	25
2315 16	WASHER 9021 A2 16	25
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2315	VAROiBOXX WASHERS 9021 A2	1



Washers DIN 1052, gv **VAROiBOXX**

- 65 pieces
- Washers for wood connectors
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
2318 12	WASHER DIN 1052 ZI F. M 12	25
2318 16	WASHER DIN 1052 ZI F. M 16	25
2318 20	WASHER DIN 1052 ZI F. M 20	10
2318 24	WASHER DIN 1052 ZI F. M 24	5
9008 1	VAROiBOXX EMPTY	1
9008 1 4	VAROiBOXX THERMOF.INS.4COMP.	1

Article No.	Article Description	QTY
9007 2318	VAROiBOXX WASHERS 1052 GV	1



Body Washers, gv **VAROiBOXX**

- 900 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2331 5 20	PANEL REP WASHER GA 5X20	100
2331 5 25	PANEL REP WASHER GA 5X25	100
2331 5 30	PANEL REP WASHER GA 5X30	50
2331 6 15	PANEL REP WASHER GA 6X15	100
2331 6 20	PANEL REP WASHER GA 6X20	100
2331 6 25	PANEL REP WASHER GA 6X25	100
2331 6 30	PANEL REP WASHER GA 6X30	50
2331 8 25	PANEL REP WASHER GA 8X25	100
2331 8 30	PANEL REP WASHER GA 8X30	50
2331 8 40	PANEL REP WASHER GA 8X40	50
2331 10 30	PANEL REP WASHER GA 10X30	50
2331 10 40	PANEL REP WASHER GA 10X40	50
9008 1	VAROiBOXX EMPTY	1
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 2331	VAROiBOXX PANEL REP WASCH.GV	1



Large Diameter Wash.Stainl.St.A2 **VAROiBOXX**

- 575 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2335 5 15	PANEL REP WASHER A2 5X15	50
2335 5 20	PANEL REP WASHER A2 5X20	50
2335 5 25	PANEL REP WASHER A2 5X25	50
2335 5 30	PANEL REP WASHER A2 5X30	25
2335 6 20	PANEL REP WASHER A2 6X20	100
2335 6 25	PANEL REP WASHER A2 6X25	100
2335 6 30	PANEL REP WASHER A2 6X30	50
2335 8 25	PANEL REP WASHER A2 8X25	50
2335 8 30	PANEL REP WASHER A2 8X30	25
2335 8 40	PANEL REP WASHER A2 8X40	25
2335 10 30	PANEL REP WASHER A2 10X30	25
2335 10 40	PANEL REP WASHER A2 10X40	25
9008 1	VAROiBOXX EMPTY	1
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 2335	VAROiBOXX PAN.REP.WA.SERIES A2	1



Spring Washers DIN 137 A/B,gv **VAROiBOXX**

- 2,050 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2321 3	SPRING WASHER137 A GA 3	200
2321 4	SPRING WASHER137 A GA 4	200
2321 5	SPRING WASHER137 A GA 5	200
2321 6	SPRING WASHER137 A GA 6	200
2321 8	SPRING WASHER137 A GA 8	200
2321 10	SPRING WASHER137 A GA 10	100
2322 4	SPRING WASHER137 B GA 4	200
2322 5	SPRING WASHER137 B GA 5	200
2322 6	SPRING WASHER137 B GA 6	200
2322 8	SPRING WASHER137 B GA 8	200
2322 10	SPRING WASHER137 B GA 10	100
2322 12	SPRING WASHER137 B GA 12	50
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 232	VAROIBOXX SPR.WASH.137A/B GV	1



Spring Washers DIN 127,gv **VAROiBOXX**

- 1,100 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2501 4	SPRING WASHER 127 GA 4	200
2501 5	SPRING WASHER 127 GA 5	200
2501 6	SPRING WASHER 127 GA 6	200
2501 8	SPRING WASHER 127 GA 8	200
2501 10	SPRING WASHER 127 GA 10	100
2501 12	SPRING WASHER 127 GA 12	100
2501 14	SPRING WASHER 127 GA 14	50
2501 16	SPRING WASHER 127 GA 16	50
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2501	VAROiBOXX SPRING WASH.127 GV	1



External Circlips DIN 471 for Shafts **VAROiBOXX**

- 715 parts
- Phosphated steel

Contents

Article No.	Article Description	Quantity
2541 8	RET RING F. SHAFT 471 A 8	100
2541 10	RET RING F. SHAFT 471 A 10	100
2541 12	RET RING F. SHAFT 471 A 12	100
2541 14	RET RING F. SHAFT 471 A 14	50
2541 15	RET RING F. SHAFT 471 A 15	50
2541 16	RET RING F. SHAFT 471 A 16	50
2541 17	RET RING F. SHAFT 471 A 17	25
2541 18	RET RING F. SHAFT 471 A 18	25
2541 20	RET RING F. SHAFT 471 A 20	25
2541 22	RET RING F. SHAFT 471 A 22	25
2541 24	RET RING F. SHAFT 471 A 24	25
2541 25	RET RING F. SHAFT 471 A 25	25
2541 26	RET RING F. SHAFT 471 A 26	25
2541 28	RET RING F. SHAFT 471 A 28	20
2541 30	RET RING F. SHAFT 471 A 30	20
2541 32	RET RING F. SHAFT 471 A 32	20
2541 35	RET RING F. SHAFT 471 A 35	20
2541 40	RET RING F. SHAFT 471 A 40	10
9008 1	VAROIBOXX EMPTY	1
9008 1 18	VAROIBOXX THERMOF.INS.18COMP.	1



Article No.	Article Description	QTY
9007 2541	VAROIBOXX CIRCLIPS 471 A	1

Internal Circlips DIN 472 for Bores **VAROiBOXX**

- 480 pieces
- Phosphated steel

Contents

Article No.	Article Description	Quantity
2542 15	RET RING F. SHAFT 472 I 15	50
2542 16	RET RING F. SHAFT 472 I 16	50
2542 18	RET RING F. SHAFT 472 I 18	50
2542 20	RET RING F. SHAFT 472 I 20	50
2542 22	RET RING F. SHAFT 472 I 22	25
2542 23	RET RING F. SHAFT 472 I 23	25
2542 24	RET RING F. SHAFT 472 I 24	25
2542 25	RET RING F. SHAFT 472 I 25	25
2542 26	RET RING F. SHAFT 472 I 26	25
2542 28	RET RING F. SHAFT 472 I 28	25
2542 30	RET RING F. SHAFT 472 I 30	25
2542 32	RET RING F. SHAFT 472 I 32	25
2542 34	RET RING F. SHAFT 472 I 34	20
2542 35	RET RING F. SHAFT 472 I 35	20
2542 36	RET RING F. SHAFT 472 I 36	10
2542 38	RET RING F. SHAFT 472 I 38	10
2542 40	RET RING F. SHAFT 472 I 40	10
2542 42	RET RING F. SHAFT 472 I 42	10
9008 1	VAROiBOXX EMPTY	1
9008 1 18	VAROiBOXX THERMOF.INS.18COMP.	1



Article No.	Article Description	QTY
9007 2542	VAROiBOXX INTERN.CIRCL.472 I	1

O-Rings, Metric **VAROiBOXX**

- 360 pieces

Contents

Article No.	Article Description	Quantity
2650 15 3	O-RING NBR 1.5X 3	25
2650 15 5	O-RING NBR 1.5X 5	25
2650 15 7	O-RING NBR 1.5X 7	25
2650 2 6	O-RING NBR 2 X6	25
2650 2 8	O-RING NBR 2 X8	25
2650 2 10	O-RING NBR 2 X10	25
2650 25 10	O-RING NBR 2.5X10	20
2650 25 12	O-RING NBR 2.5X12	20
2650 25 15	O-RING NBR 2.5X15	20
2650 3 14	O-RING NBR 3 X14	20
2650 3 16	O-RING NBR 3 X16	20
2650 3 18	O-RING NBR 3 X18	20
2650 3 20	O-RING NBR 3 X20	15
2650 3 22	O-RING NBR 3 X22	15
2650 3 24	O-RING NBR 3 X24	15
2650 3 26	O-RING NBR 3 X26	15
2650 3 28	O-RING NBR 3 X28	15
2650 3 30	O-RING NBR 3 X30	15
9008 1	VAROiBOXX EMPTY	1
9008 1 18	VAROiBOXX THERMOF.INS.18COMP.	1



Article No.	Article Description	QTY
9007 2650	VAROiBOXX O-RINGS METRIC	1

Blind Rivet w.Mushr.Head AL/St. **VARO iBOXX**

- 529 pieces
- 1 x Art. No. 2722 1: hand rivet gun MFX 150 B

Contents

Article No.	Article Description	Quantity
2710 32 8	BLIND RIV.TRUSS-HD AL/ST 3.2X8	50
2710 32 10	BLIND RIV.TRUSS-HD AL/ST3.2X10	50
2710 32 12	BLIND RIV.TRUSS-HD AL/ST3.2X12	50
2710 4 10	BLIND RIV.TRUSS-HD AL/ST 4X10	50
2710 4 12	BLIND RIV.TRUSS-HD AL/ST 4X12	50
2710 4 16	BLIND RIV.TRUSS-HD AL/ST 4X16	50
2710 48 12	BLIND RIV.TRUSS-HD AL/ST4.8X12	50
2710 48 16	BLIND RIV.TRUSS-HD AL/ST4.8X16	50
2710 5 8	BLIND RIV.TRUSS-HD AL/ST 5X8	50
2710 5 10	BLIND RIV.TRUSS-HD AL/ST 5X10	25
2710 5 12	BLIND RIV.TRUSS-HD AL/ST 5X12	25
2710 5 16	BLIND RIV.TRUSS-HD AL/ST 5X16	25
2722 1	HAND RIVET GUN MFX150B	1
5500 33	TWIST DRILL 338 ROLL F. 3.3	1
5500 42	TWIST DRILL 338 ROLL F. 4.2	1
5500 50	TWIST DRILL 338 ROLL F. 5.0	1
9008 1	VAROIBOXX EMPTY	1
9008 1 14	VAROIBOXX THERMOF.INS.14COMP.	1



Article No.	Article Description	QTY
9007 2710	VAROIBOXX BL.RIV.TR.HD AL/ST.	1

Blind Riv.w.Mushr.Hd A2/A2 **VARO iBOXX**

- 504 pieces
- 1 x Art. No. 2722 1: hand rivet gun MFX 150 B

Contents

Article No.	Article Description	Quantity
2715 3 6	BLIND RIVET TRUSS-HEAD 3X6	50
2715 3 8	BLIND RIVET TRUSS-HEAD 3X8	50
2715 3 10	BLIND RIVET TRUSS-HEAD 3X10	50
2715 32 6	BLIND RIVET TRUSS-HEAD 3.2X6	50
2715 32 8	BLIND RIVET TRUSS-HEAD 3.2X8	50
2715 32 9	BLIND RIVET TRUSS-HEAD 3.2X10	50
2715 32 12	BLIND RIVET TRUSS-HEAD 3.2X12	50
2715 4 6	BLIND RIVET TRUSS-HEAD 4X6	50
2715 4 8	BLIND RIVET TRUSS-HEAD 4X8	50
2715 4 10	BLIND RIVET TRUSS-HEAD 4X10	50
2715 4 12	BLIND RIVET TRUSS-HEAD 4X12	50
2715 4 15	BLIND RIVET TRUSS-HEAD 4X16	50
2722 1	HAND RIVET GUN MFX150B	1
5500 31	TWIST DRILL 338 ROLL F. 3.1	1
5500 33	TWIST DRILL 338 ROLL F. 3.3	1
5500 42	TWIST DRILL 338 ROLL F. 4.2	1
9008 1	VAROIBOXX EMPTY	1
9008 1 14	VAROIBOXX THERMOF.INS.14COMP.	1



Article No.	Article Description	QTY
9007 2715	VAROIBOXX BL.RIV.TR.HD A2/A2	1

Blind Rivet w. Lg.Mushr.Hd AL/St, 14 mm

VAROIBOXX

- 501 pieces
- 1 × Art. No. 2722 1: hand rivet gun MFX 150 B

Contents

Article No.	Article Description	Quantity
2706 5 10	BLIND RIVET AL/ST 5X10	100
2706 5 12	BLIND RIVET AL/ST 5X12	100
2706 5 14	BLIND RIVET AL/ST 5X14	100
2706 5 16	BLIND RIVET AL/ST 5X16	100
2706 5 18	BLIND RIVET AL/ST 5X18	50
2706 5 20	BLIND RIVET AL/ST 5X21	50
2722 1	HAND RIVET GUN MFX150B	1
9008 1	VAROIBOXX EMPTY	1
9008 1 7	VAROIBOXX THERMOF.INS.7COMP.	1

Article No.	Article Description	QTY
9007 2706	VAROIBOXX BL.RI.TR.HD 14MM	1



Bl.Pop Riv.w.Mushr.Head AL/St. **VAROiBOXX**

- 301 pieces
- 1 x Art. No. 2722 1: hand rivet gun MFX 150 B

Contents

Article No.	Article Description	Quantity
2718 32 8	CLOSED END BLIND RIVET 3.2X8	50
2718 32 95	CLOSED END BLIND RIVET 3.2X9.5	50
2718 4 8	CLOSED END BLIND RIVET 4X8	50
2718 4 95	CLOSED END BLIND RIVET 4X9.5	50
2718 48 125	CLOSED END BLIND RIV. 4.8X12.5	50
2718 48 16	CLOSED END BLIND RIVET 4.8X16	50
2722 1	HAND RIVET GUN MFX150B	1
9008 1	VAROiBOXX EMPTY	1
9008 1 7	VAROiBOXX THERMOF.INS.7COMP.	1

Article No.	Article Description	QTY
9007 2718	VAROiBOXX CL.END BL.RIV.AL/ST	1



Closed E.Bl.Pop Riv.w.Mushr.Hd AL/A2 **VAROiBOXX**

- 529 pieces
- 1 x Art. No. 2722 1: hand rivet gun MFX 150 B

Contents

Article No.	Article Description	Quantity
2722 1	HAND RIVET GUN MFX150B	1
2723 32 65	CLOSED END BLIND RIVET 3.2X 6	50
2723 32 8	CLOSED END BLIND RIVET 3.2X 8	50
2723 32 95	CLOSED END BLIND RIVET 3.2X9.5	50
2723 32 11	CLOSED END BLIND RIVET 3.2X 11	50
2723 4 95	CLOSED END BLIND RIVET 4X 9.5	50
2723 4 11	CLOSED END BLIND RIVET 4X11	50
2723 48 95	CLOSED END BLIND RIVET 4.8X9.5	50
2723 48 11	CLOSED END BLIND RIVET 4.8X11	50
2723 48 125	CLOSED END BLIND RIVET4.8X12.5	50
2723 48 14	CLOSED END BLIND RIVET 4.8X14	25
2723 48 16	CLOSED END BLIND RIVET 4.8X16	25
2723 48 21	CLOSED END BLIND RIVET 4.8X21	25
5500 33	TWIST DRILL 338 ROLL F. 3.3	1
5500 42	TWIST DRILL 338 ROLL F. 4.2	1
5500 50	TWIST DRILL 338 ROLL F. 5.0	1
9008 1	VAROiBOXX EMPTY	1
9008 1 14	VAROiBOXX THERMOF.INS.14COMP.	1

Article No.	Article Description	QTY
9007 2723	VAROiBOXX CL.END BL.RIV.AL/A2	1



Multiple Range Blind Riv. **VARO**iBOXX

- 529 pieces
- 1 x Art. No. 2722 1: hand rivet gun MFX 150 B

Contents

Article No.	Article Description	Quantity
2722 1	HAND RIVET GUN MFX150B	1
2730 32 8	FRK-MB-BLINDN. AL/ST 3,2X 8	50
2730 32 95	BLIND RIVET TRUSS-HEAD 3.2X9.5	50
2730 32 111	BLIND RIVET TRUSS-HD 3.2X11.1	50
2730 4 95	BLIND RIVET TRUSS HEAD 4X9.5	50
2730 4 127	BLIND RIVET TRUSS-HEAD 4X12	50
2730 4 16	BLIND RIVET TRUSS-HEAD 4X16	50
2730 48 103	BLIND RIVET TRUSS-HEAD 4.8X10	50
2730 48 17	BLIND RIVET TRUSS-HEAD 4.8X17	50
2730 48 248	BLIND RIVET TRUSS-HEAD4.8X24.8	50
2731 4 11	BLIND RIVET COUNTERSUNK 4X11.1	25
2731 48 10	BLIND RIVET COUNTERSUNK 4.8X10	25
2731 48 16	BLIND RIVET COUNTERSUNK 4.8X16	25
5500 33	TWIST DRILL 338 ROLL F. 3.3	1
5500 42	TWIST DRILL 338 ROLL F. 4.2	1
5500 50	TWIST DRILL 338 ROLL F. 5.0	1
9008 1	VAROIBOXX EMPTY	1
9008 1 14	VAROIBOXX THERMOF.INS.14COMP.	1



Article No.	Article Description	QTY
9007 273	VAROIBOXX BLIND RIVETS ALU	1

Blind Riv.Nuts,Aluminium **VAROiBOXX**

- 301 pieces
- 1 × Art. No. 2748 1: blind rivet nut pliers set BM 10

Contents

Article No.	Article Description	Quantity
2740 3 25	FH-BLIND RIV.NUT AL M 3-2.5	25
2740 3 35	FH-BLIND RIV.NUT AL M 3-3.5	25
2740 4 3	FH-BLIND RIV.NUT AL M 4-3	25
2740 4 45	FH-BLIND RIV.NUT AL M 4-4.5	25
2740 5 3	FH-BLIND RIV.NUT AL M 5-3	25
2740 5 55	FH-BLIND RIV.NUT AL M 5-5.5	50
2740 5 8	FH-BLIND RIV.NUT AL M 5-8	25
2740 6 3	FH-BLIND RIV.NUT AL M 6-2.5	25
2740 6 55	FH-BLIND RIV.NUT AL M 6-5.5	50
2740 6 8	FH-BLIND RIV.NUT AL M 6-8	25
2748 1 0	BLIND RIV.NUT PL.SET MFX 306S	1
9008 1	VAROIBOXX EMPTY	1
9008 1 14	VAROIBOXX THERMOF.INS.14COMP.	1

Article No.	Article Description	QTY
9007 2740	VAROIBOXX BLIND RIVET NUTS ALU	1



Blind Rivet Nuts, Steel **VAROiBOXX**

- 301 pieces
- Flat head: 150 pieces
- Miniature countersunk head : 150 pieces
- 1 × Art. No. 2748 1: blind rivet nut pliers set BM 10
- **Steel**

Contents

Article No.	Article Description	Quantity
2742 4 3	FH-BLIN.RIV.NUT ST RIB.M 4-3	50
2742 5 3	FH-BLIN.RIV.NUT ST RIB.M 5-3	25
2742 5 55	FH-BLIN.RIV.NUT ST RIB.M 5-5.5	25
2742 6 3	FH-BLIN.RIV.NUT ST RIB.M 6-3	50
2744 4	MINI CSK RIVET NUT STEEL M4	25
2744 5	MINI CSK RIVET NUT STEEL M5	25
2744 6	MINI CSK RIVET NUT STEEL M6	25
2745 4	MINI CSK KN.BL.R.NUT ST.M4-2.5	25
2745 5	MINI CSK KN.BL.R.NUT ST.M 5-3	25
2745 6	MINI CSK KN.BL.R.NUT ST.M 6-3	25
2748 1 0	BLIND RIV.NUT PL.SET MFX 306S	1
9008 1	VAROIBOXX EMPTY	1
9008 1 14	VAROIBOXX THERMOF.INS.14COMP.	1

Article No.	Article Description	QTY
9007 274	VAROIBOXX BLIND RIV.NUTS COMBI	1



Cotter Pins DIN 94, gv **VAROIBOXX**

- 1,325 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2801 1 20	SPLIT PIN 94 GA 1X20	200
2801 16 32	SPLIT PIN 94 GA 1.6X32	200
2801 2 32	SPLIT PIN 94 GA 2X32	200
2801 25 32	SPLIT PIN 94 GA 2.5X32	100
2801 25 40	SPLIT PIN 94 GA 2.5X40	100
2801 32 32	SPLIT PIN 94 GA 3.2X32	100
2801 32 50	SPLIT PIN 94 GA 3.2X50	100
2801 35 40	SPLIT PIN 94 GA 3.5X40	100
2801 4 40	SPLIT PIN 94 GA 4X40	100
2801 4 63	SPLIT PIN 94 GA 4X63	50
2801 5 50	SPLIT PIN 94 GA 5X50	50
2801 63 63	SPLIT PIN 94 GA 6.3X63	25
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 2801	VAROIBOXX COTTER PINS DIN94 GV	1



Spring Cotter Pins, gv **VAROiBOXX**

- 145 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2811 3	R PIN SINGLE EYE ZINC M3	25
2811 4	R PIN SINGLE EYE ZINC M4	25
2811 5	R PIN SINGLE EYE ZINC M5	15
2811 6	R PIN SINGLE EYE ZINC M6	10
2812 3	R PIN TWIN EYE ZINC M3	40
2812 4	R PIN TWIN EYE ZINC M4	20
2812 5	R PIN TWIN EYE ZINC M5	10
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 281	VAROiBOXX SPRING COTTER PINS	1



Spring Type Straight Pins DIN 1481 **VAROiBOXX**

- 655 pieces
- Complies with ISO 8752
- Spring steel, polished

Contents

Article No.	Article Description	Quantity
2860 3 30	STRAIGHT PINS 1481 3X30	50
2860 3 40	STRAIGHT PINS 1481 3X40	50
2860 4 20	STRAIGHT PINS 1481 4X20	50
2860 4 30	STRAIGHT PINS 1481 4X30	50
2860 4 40	STRAIGHT PINS 1481 4X40	50
2860 4 50	STRAIGHT PINS 1481 4X50	50
2860 5 30	STRAIGHT PINS 1481 5X30	50
2860 5 40	STRAIGHT PINS 1481 5X40	50
2860 5 50	STRAIGHT PINS 1481 5X50	25
2860 6 30	STRAIGHT PINS 1481 6X30	50
2860 6 40	STRAIGHT PINS 1481 6X40	50
2860 6 50	STRAIGHT PINS 1481 6X50	25
2860 6 60	STRAIGHT PINS 1481 6X60	25
2860 8 40	STRAIGHT PINS 1481 8X40	25
2860 8 50	STRAIGHT PINS 1481 8X50	25
2860 8 60	STRAIGHT PINS 1481 8X60	10
2860 10 50	STRAIGHT PINS 1481 10X50	10
2860 10 60	STRAIGHT PINS 1481 10X60	10
9008 1	VAROiBOXX EMPTY	1
9008 1 18	VAROiBOXX THERMOF.INS.18COMP.	1

Article No.	Article Description	QTY
9007 2860	VAROiBOXX STRAIGHT PINS 1481	1



Tw.Drill HSSE-E, MULTI-INOX **VAROiBOXX**

- 62 pieces
- 5 % cobalt alloy
- Ideal for use in hand-guided machines
- Minimised effort due to improved geometry of the cut
- Improved drilling speed
- Pinpoint accuracy when drilling, no centre-punches needed
- Precise drilling behaviour and improved long-term accuracy
- Outstanding fracture resistance due to optimum elasticity and geometry
- 3-edged shaft prevents skidding in the drill chuck due to force-fit connection
- Reduced war on the drill chuck
- Optimum power transmission from the shaft to the tip
- 40° angle of twist guarantees efficient chip removal
- Right-handed cutting
- DIN 338 short cylindrical
- Split point from Ø 3 mm
- Point angle 135°
- 3-edged shaft from Ø 4 mm

Contents

Article No.	Article Description	Quantity
5506 5 10	TWIST DRILL 338 MULTI-INOX 1.0	4
5506 5 15	TWIST DRILL 338 MULTI-INOX 1.5	4
5506 5 20	TWIST DRILL 338 MULTI-INOX 2.0	4
5506 5 25	TWIST DRILL 338 MULTI-INOX 2.5	4
5506 5 30	TWIST DRILL 338 MULTI-INOX 3.0	4
5506 5 35	TWIST DRILL 338 MULTI-INOX 3.5	4
5506 5 40	TWIST DRILL 338 MULTI-INOX 4.0	4
5506 5 45	TWIST DRILL 338 MULTI-INOX 4.5	4
5506 5 50	TWIST DRILL 338 MULTI-INOX 5.0	4
5506 5 55	TWIST DRILL 338 MULTI-INOX 5.5	4
5506 5 60	TWIST DRILL 338 MULTI-INOX 6.0	4
5506 5 65	TWIST DRILL 338 MULTI-INOX 6.5	2
5506 5 70	TWIST DRILL 338 MULTI-INOX 7.0	2
5506 5 75	TWIST DRILL 338 MULTI-INOX 7.5	2
5506 5 80	TWIST DRILL 338 MULTI-INOX 8.0	2
5506 5 85	TWIST DRILL 338 MULTI-INOX 8.5	2
5506 5 90	TWIST DRILL 338 MULTI-INOX 9.0	2
5506 5 95	TWIST DRILL 338 MULTI-INOX 9.5	2
5506 5 100	TWIST DRILL 338 MULTI-INOX 10.0	2
5506 5 105	TWIST DR. 338 MULTI-INOX 10.5	2
9008 1	VAROiBOXX EMPTY	1
9008 1 20	VAROiBOXX THERMOF.INS.20COMP.	1



Article No.	Article Description	QTY
9007 5506 5	VAROiBOXX T.DR338MULTI-INOX5*	1

Tw.Drill DIN 340 HSS,Ground,Type N **VAROiBOXX**

• 67 pieces

Contents

Article No.	Article Description	Quantity
5510 30	TWIST DRILL LONG 340 3.0	10
5510 35	TWIST DRILL LONG 340 3.5	10
5510 40	TWIST DRILL LONG 340 4.0	10
5510 50	TWIST DRILL LONG 340 5.0	10
5510 60	TWIST DRILL LONG 340 6.0	10
5510 65	TWIST DRILL LONG 340 6.5	5
5510 70	TWIST DRILL LONG 340 7.0	5
5510 80	TWIST DRILL LONG 340 8.0	5
5510 100	TWIST DRILL LONG 340 10.0	2
9008 1	VAROiBOXX EMPTY	1
9008 1 9	VAROiBOXX THERMOF.INS.9COMP.	1

Article No.	Article Description	QTY
9007 5510	VAROiBOXX TWIST DRILL 340LONG	1



Tw.Drill HSSE-E,STEAM **VARO iBOXX**

- 62 pieces
- Universal drill for use in the automotive industry, repair shops, building services and industry
- Suitable for use in controlled, stationary CNC-controlled and hand-guided machines
- Pinpoint accuracy when drilling, no centre-punches
- Increased service life due to improved geometry and cutting stability
- Precise drilling behaviour and improved long-term accuracy
- Outstanding fracture resistance due to optimum elasticity
- Reduced chuck wear due to hardened shaft
- 38° angle of twist guarantees efficient chip removal
- Low feed and cutting forces
- 5% cobalt alloy
- Surface hardened by vapour tempering
- Optimum drilling depth 3x drill Ø
- Right-hand cutting
- DIN 388 short cylindrical
- Split point from Ø 1 mm
- Point angle 118 °

Contents

Article No.	Article Description	Quantity
5566 5 10	TW.DR.338 HSS-E STEAM 1.0 5*	4
5566 5 15	TW.DR.338 HSS-E STEAM 1.5 5*	4
5566 5 20	TW.DR.338 HSS-E STEAM 2.0 5*	4
5566 5 25	TW.DR.338 HSS-E STEAM 2.5 5*	4
5566 5 30	TW.DR.338 HSS-E STEAM 3.0 5*	4
5566 5 35	TW.DR.338 HSS-E STEAM 3.5 5*	4
5566 5 40	TW.DR.338 HSS-E STEAM 4.0 5*	4
5566 5 45	TW.DR.338 HSS-E STEAM 4.5 5*	4
5566 5 50	TW.DR.338 HSS-E STEAM 5.0 5*	4
5566 5 55	TW.DR.388 HSS-E STEAM 5.5 5*	4
5566 5 60	TW.DR.388 HSS-E STEAM 6.0 5*	4
5566 5 65	TW.DR.338 HSS-E STEAM 6.5 5*	2
5566 5 70	TW.DR.338 HSS-E STEAM 7.0 5*	2
5566 5 75	TW.DR.338 HSS-E STEAM 7.5 5*	2
5566 5 80	TW.DR.338 HSS-E STEAM 8.0 5*	2
5566 5 85	TW.DR.338 HSS-E STEAM 8.5 5*	2
5566 5 90	TW.DR.338 HSS-E STEAM 9.0 5*	2
5566 5 95	TW.DR.338 HSS-E STEAM 9.5 5*	2
5566 5 100	TW.DR.338 HSS-E STEAM 10.0 5*	2
5566 5 105	TW.DR.338 HSS-E STEAM 10.5 5*	2
9008 1	VAROIBOXX EMPTY	1
9008 1 20	VAROIBOXX THERMOF.INS.20COMP.	1



Article No.	Article Description	QTY
9007 5566 5	VAROIBOXX TW.DR.388HSS-E ST 5*	1

Repair Mesh for Plastic Repair

- Reinforcement mesh. Single-sided self-adhesive.
- For repairs of cracks and holes in all kind of plastic parts bumpers etc...
- Perfect base for plastic repair with 2K-PUR-Adhesives



Article No.	Article Description
6660 4256	RO(20M)PLAST.REPAIR MESH 50MM
6660 4257	RO(45M)PLAST.REPAIR MESH 100MM

Glass Fibre Mat

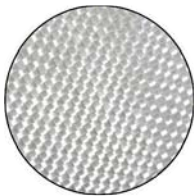
Article No.	Article Description
6660 4259	GLASS FIBRE MAT 0.5 SQM
6660 4261	GLASS-FIBRE MAT 1,00 SQM



6660 4259



6660 4261



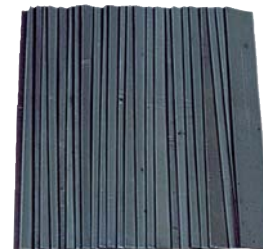
6660 4259



6660 4261

Reinforcement Strips

Article No.	Article Description
6660 4258	BAG(25) REINFORCEMENT STRIPS



Reinforcing fabric f.adh.bonding of plast.

- Reinforcement mesh. Single-sided self-adhesive.
- For repairs of cracks and holes in all kind of plastic parts bumpers etc...
- Perfect base for plastic repair with 2K-PUR-Adhesives



Article No.	Article Description
6660 4262	RO(3.6M)REINFORC.FABRIC 120MM

2K K140 strong adhesive

- 2 component universal adhesive for easy and quick adhesion of virtually all materials to each another, apart from rubber and a few plastics
- Basis: Methacrylate



Your Advantage / Benefit

- Temperature-resistant from -55 °C to +120 °C
- Petrol resistant
- Short static mixing nozzle for low material loss
- Can even be reused after weeks by simply changing the static mixing nozzle
- Can be sanded after 45 mins and ready for painting
- For all adhesive application in industrial area such as vehicle building, wood industry, plastic industry, metal construction, lighting industry, electrics, machinery construction, fastening technology, conveyor technology, container building, heating and ventilation construction, industrialised building etc.

Application

- Parts to be stuck must be clean and free from grease
- Store cool and dry
- Note the processing temperature



Article No.	Article Description
6660 4240	2K POWER BOND K140 50G
6660 4208	MIX. NOZZLE QUATTRO K140/K154
6660 4201	STANDARD GUN F.50ML CARTRIDGES

Related Products

- **Silicone remover R507**
Art.-No. 6130 1571, 500-ml-Aerosol
Art.-No. 6130 1570, 5-l-Can



- **Disposable gloves latex FORCH**
Art.-No. 5405 210 1 - 4



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



- **Gun**
Art.-No. 6660 4201



Power Bond 2K, K140 - Sets

Article No.	Article Description
6660P 10	POWER BOND 2K, K140 - SETS
6660P 11	2K-POWER BOND UPGRADE SET K140
6660P 12	2K-POWER BOND PROFI SET K140
6660P 13	2K-POW.BOND UPGR.PRO.SET K140

Contents Art.-No. 6660P 10:

- 3x 2K-Power Bond, 6x fixed mixer nozzles, 1x gun for 2K-Power Bond

Contents Art.-No. 6660P 11:

- 3x 2K-2K-Power Bond, 6x fixed mixer nozzles

Contents Art.-No. 6660P 12:

- 4x 2K-2K-Power Bond, 8x fixed mixer nozzles, 1x gun for 2K-Power Bond

Contents Art.-No. 6660P 13:

- 5x 2K-2K-Power Bond, 10x fixed mixer nozzles



Adhesive 2K-HA, K152

- **Hybride acrylate adhesive specially for polyolefines**
- Adhesive for PE and PP plastics
- For adhesive, grouting and sealing applications
- **Also suitable for the adhesion of:**

Metal: aluminium, cast iron, varnished metals, metal sheets, stainless steel etc.

Plastic: ABS, PMMA, fibre-glass, epoxy, PVC, polyurethane, SMC, polystyrene, polyester (PET, PBT), PTFE, Viton etc.

Wood: hardwood, softwood, plywood etc.

Miscellaneous: brick, concrete, ceramic, glass etc.

- HA-adhesive is impact-proof, adheres very well to surfaces that are difficult to bond, e.g. low-energetic plastics
- Working time: 5 mins. at +20 °C
- Dry to touch after 2 hours
- Final hardening after 8 ours
- Temperature resistant from 40 °C up to + 80 °C
- Parts to be treated must be clean and free of grease
- Process using 2K hand pressure gun 10:1 Art. No. 6660 4210
- Ideal processing temperature: +20 °C to +25 °C
- Caution: apply mixed adhesive onto the part to be added as quickly as possible in order to achieve optimum substrate damping



Article No.	Article Description
6660 4245	ADHESIVE 2K-HA, K152 37ML
6660 4207	MIXING NOZZLE F.2K-HA-ADHESIVE
6660 4210	GUN 10:1 FOR 2K-CARTRIDGE 37ML

Adhesive Set 2K-HA K152

Article No.	Article Description
6660P 40	ADHESIVE PACKET 2K-HA K152

Contents Art.-No. 6660P 40:

- 3x 2K-HA Adhesive K152 37 ml
- 10x static mixing nozzle
- 1x gun for 2K-HA Adhesive K152



Power Adhesive 2K-VA/AL K156

- Acrylic-based structural adhesive for many plated and unplated metals and technical plastics, **stainless steel, aluminium, glass, ceramic, concrete** etc...
- Replaces numerous mechanical connection and fastening methods e.g. riveting, welding and soldering etc...
- Application metals: aluminium, stainless steel, titanium, magnesium, light-metal alloys, steel, chrome steel, galvanised steel, copper, brass, bronze and painted metals etc...
- Application plastics: SMC/RTM, polyester and epoxy, laminates, phenol, resins, ABS, heavy PVC, polystyrene, PBT, PC, PMMA
- UV-resistant
- Temperature range -40 °C to +150 °C, short time to +170 °C
- High impact and racking resistance
- Working time: 6 to 10 mins. at +23 °C
- Do not process below 0 °C
- Resistant to diluted acids, alkaline substances, solvents, greases, oils and moisture
- For adhesive gaps of 0.1 mm to 2 mm

Application:

- Parts to be bonded must be clean and grease free. If necessary, roughen plastics prior to use.
- Open the seal and screw on the static mixing nozzle. Attach the plunger to the end of the cartridge and apply using a commercially available 'skeleton gun'. Join parts together immediately and fix in position. After use remove the nozzle and close the cartridge. The components must not contact each other!



Article No.	Article Description
6660 4283	SET POWER ADHES.2K-VA/AL K156
6660 4280	2K-VA/AL POWER ADHE.K156 150ML
6660 4281	MIX.NOZZLE F.2K-VA/AL POW.ADH.
6660 4282	PLUNGER FOR 2K-VA/AL POW.ADHE.

Art. No. 6660 4283 includes:

- 1x Art.-No. 6660 4280: 2K-VA/AL Power Adhesive K156, 150 ml
- 1x Art.-No. 6660 4281: Static Mixing Nozzle
- 1x Art.-No. 6660 4282: Plunger

Liquid Metal Repair 2K-Epoxy Adhesive K154

- For the adhesion of metals, hard synthetics, ceramic, stone, wood etc...
- Ideal for repairing dry holes and cracks
- After hardening suitable for drilling, thread cutting, sawing, sanding and sandblasting

Art.-No. 6430 4180, 6430 4181:

- Temperature resistant from -50 °C to +80 °C

Art.-No. 6430 47185, 6430 4186:

- Temperature resistant from -50 °C to +120 °C
- Fuel-resistant

Article No.	Article Description
6430 4180	LIQUID METAL TRANSP.K154 25G
6430 4181	LIQUID METAL TRANSP.K154 50G
6430 4185	LIQUID METAL GREY K154 30G
6430 4186	LIQUID METAL GREY K154 60G
6660 4208	MIX. NOZZLE QUATTRO K140/K154



Epoxy Putty Repair Stick

- Two-component repair stick for the easy repair of holes and cracks
- Simply knead and model by hand
- Can also be used at moist substrates and sets under water
- Temperature resistant up to +300 °C

Article No.	Article Description
6430 4190	EPOXY PUTTY REPAIR STICK 56G



Accessories for 37 ml/50 ml Double Cartridges

Technical Data Statikmischer		
Art.-No.	Length (mm)	Number of mixing-elements
6660 4204	94	16
6660 4205	80	16
6660 4208	91	15
6660 4202	154	21
6660 4203	87	15
6660 4206	114	26
6660 4207	88	13

Article No.	Article Description
6660 4204	MIXING NOZZLE F. 2K SPEED
6660 4205	MIXING NOZZLE F. 2K-(HI-)SPEED
6660 4208	MIX. NOZZLE QUATTRO K140/K154
6660 4202	MIXING NOZZLE F.2K-PU CARTR.
6660 4203	MIXING NOZZLE F.LIQUID METAL
6660 4206	MIXING NOZZLE QUATTRO F.2K
6660 4207	MIXING NOZZLE F.2K-HA-ADHESIVE
6660 4201	STANDARD GUN F.50ML CARTRIDGES
6660 4209	MET.PIST.1:1/FOR 2K-CARTR.50ML
6660 4210	GUN 10:1 FOR 2K-CARTRIDGE 37ML
6410 4171	NOZZLE F.2K-CA SUPER GLUE K170



Spray Adhes. Extra Strong K146 / Spray Adhes. K147

Art.-No. 6404 4000 Spray Adhesive Extra Strong K146:

- High-power adhesive with extremely high power instant adhesion
- Ideal for using on parts of the bodywork such as ceiling, covers, insulating boards etc.
- 6-way adjustable spray jet ranging from drop by drop to wide application, excellently adheres roof interiors, artificial leather / coverings, insulation sheets / mats, foam rubber, leather, cardboard, paper, vinyl, wood, glass, rubber and metal as well as painted surfaces
- **Not suitable for polystyrene**
- Colour: white

Art.-No. 6400 4010 Spray Adhesive K147:

- Power adhesive with extremely high power instant adhesion
- Problem-free adhesion of internal roof linings, covers made out of plastic leather / fabric, insulating boards, textiles, foam rubber, leather, cardboard, polystyrene, vinyl, rubber etc.
- 6-way adjustable spray jet
- **Suitable for polystyrene**
- Colour: yellowish

Article No.	Article Description
6400 4000	SPR.ADH.XTRA STRONG K146 400ML
6400 4010	SPRAY ADHESIVE K147 400ML



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
6400 4049	TB(90G)UNIVERSAL ADHESIVE K142
6400 4050	RUBB.&UNIV.CONT.ADH.K142 200G
6400 4055	UNIV.CONT.ADHESIVE K142 640G



6400 4049 6400 4050 6400 0455

Gasket Remover R580

- Reliably removes sealant residues, engine compartment and casing sealants, adhesive residues, resin, carbonised oil, tar, paints, etc.

Article No.	Article Description
6490 4600	GASKET REMOVER R580 300ML



Bond Break R581

- Removes paper labels, stickers, residues of balancing weights, trim adhesive, etc.
- AOX-free

Article No.	Article Description
6490 4610	BOND BREAK R581 300ML



Product Overview 2-component-adhesives

Article No	6660 4253	6660 4254	6660 4250	6660 4240
Article Description	2K SPEED PU Adhesive K153	2K SPEED PU Adhesive K151	PLASTIC Adhesive 2K PUR K150	2K-POWER Adhesive K140
Base	Polyurethane	Polyurethane	Polyurethane	Methacrylate
Content	60 g	60 g	75 g	50 g
Colour (mixed)	anthracite	anthracite	black	beige
Touchable strength (min. 20°C, 50% rel. air hum.)	approx. 45 sec - 2 min	approx. 3-5 min.	approx. 120 min.	approx. 20 min
Functional strength (min. 20°C, 50% rel. air hum.)	approx. 6 min	approx. 10-15 min.	approx. 300 min.	approx. 30 – 60 min
Final strength (min. 20°C, 50% rel. air hum.)	approx. 1 h	approx. 1 h	approx. 6 h	approx. 24 h
Fixation time (min. 20°C, 50% rel. air hum.)	-	approx. 2-2,5 min.	approx. 30 min.	approx. 10 – 15 min
Pot life (min. 20°C, 50% rel. air hum.)	approx. 1,5 min.	approx. 1,5 min.	approx. 10 min.	approx. 3 min
Wood (incl. MDF, chipboards)	3	3	2	3
Decorative boards	1	1	1	2
Laminates (HPL)	2	2	2	2
Rubber	0	0	0	0
Metal	2	2	2	3
Coatings	1	1	1	3
Steel, Iron	3	3	2	3
Copper	1	1	0	2
Aluminium	2	2	1	2
Brass	1	1	1	2
Porcelain/ Ceramic/ Tiles/ (not on glaze)	3	3	2	3
Cork	3	3	2	0
Cardboard (dry)	3	3	2	0
Leather	3	3	2	0
Glass	2	2	2	2
Concrete	3	3	2	1
Gas concrete/plaster/plasterboard	2	2	2	0
Stone	3	3	2	0
Plaster	3	3	2	2
Natural stone (marble / granite)	3	3	2	2
Artificial stone (Corian/ Varicor)	2	2	1	2
Styrofoam	2	2	0	0
Fabric / carpet/ textiles/ felt/ (dry)	3	3	2	0
Paper (dry)	2	2	2	0
Rigid foams (PUR, phenolic resin)	3	3	2	0
Plastics (PVC, ABS)	1	1	3	3
PMMA (acrylic glass, plexiglass)	1	1	0	3
Glass fiber	3	3	2	0
Polyolefins (PP/ PE)	0	0	0	0
PTFE	0	0	0	0
Note:	SDS, TDS	SDS, TDS	plastics: take primer SDS , TDS	SDS, TDS

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2 = condition. suitable

1 = possible suitable, preliminary test necessary

0 = Not suitable

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Product Overview 2-component-adhesives

Article No	6430 4180	6430 4181	6430 4185	6430 4186
Article Description	2K-EPOXID-AD. TRANSP. K154	2K-EPOXID-AD. TRANSP. K154	2K-EPOXID-AD. GREY K154	2K-EPOXID-AD. GTREY K154
Base	Epoxy resin	Epoxy resin	Epoxy resin	Epoxy resin
Content	25 g	50 g	30 g	60 g
Colour (mixed)	transparent	transparent	grey	grey
Touchable strength (min. 20°C, 50% rel. air hum.)	approx. 5 min.	approx. 5 min.	approx. 5 min.	approx. 5 min.
Functional strength (min. 20°C, 50% rel. air hum.)	approx. 60 min.	approx. 60 min.	approx. 60 min.	approx. 60 min.
Final strength (min. 20°C, 50% rel. air hum.)	approx. 8 h	approx. 8 h	approx. 8 h	approx. 8 h
Fixation time (min. 20°C, 50% rel. air hum.)	approx. 5 min.	approx. 5 min.	approx. 5 min.	approx. 5 min.
Pot life (min. 20°C, 50% rel. air hum.)	approx. 4-5 min.	approx. 4-5 min.	approx. 4-5 min.	approx. 4-5 min.
Wood (incl. MDF, chipboards)	2	2	2	2
Decorative boards	1	1	0	0
Laminates (HPL)	1	1	0	0
Rubber	1	1	0	0
Metal	2	2	3	3
Coatings	2	2	3	3
Steel, Iron	2	2	2	2
Copper	1	1	2	2
Aluminium	1	1	2	2
Brass	1	1	1	1
Porcelain/ Ceramic/ Tiles/ (not on glaze)	2	2	1	1
Cork	0	0	0	0
Cardboard (dry)	0	0	0	0
Leather	0	0	0	0
Glass	1	1	0	0
Concrete	1	1	1	1
Gas concrete/plaster/plasterboard	0	0	0	0
Stone	1	1	0	0
Plaster	0	0	0	0
Natural stone (marble / granite)	3	3	2	2
Artificial stone (Corian/ Varicor)	2	2	1	1
Styrofoam	0	0	0	0
Fabric / carpet/ textiles/ felt/ (dry)	1	1	0	0
Paper (dry)	0	0	0	0
Rigid foams (PUR, phenolic resin)	0	0	0	0
Plastics (PVC, ABS)	1	1	1	1
PMMA (acrylic glass, plexiglass)	1	1	1	1
Glass fiber	0	0	0	0
Polyolefins (PP/ PE)	0	0	0	0
PTFE	0	0	0	0
Note:	SDS, TDS	SDS, TDS	SDS, TDS	SDS, TDS

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Product Overview 2-component-adhesives

Article No.	6430 4190	6660 4245	6660 4280
Article Description	EPOXY PUTTY REPAIR STICK for steel / alu	2K-HA-ADHESIVE K152	2K-VA/AL-POWER-ADHES. K156
Base	Epoxy resin	Acrylate-hybrid	Acrylic
Content	56 g	37 ml	150 ml
Colour (mixed)	grey	beige	beige
Touchable strength (min. 20°C, 50% rel. air hum.)	approx. 20 min.	approx. 120 min.	approx. 8-10 min.*
Functional strength (min. 20°C, 50% rel. air hum.)	-	approx. 360 min.	approx. 12-17 min.*
Final strength (min. 20°C, 50% rel. air hum.)	approx. 3 h	approx. 8 h	approx. 24 h*
Fixation time (min. 20°C, 50% rel. air hum.)	-	approx. 10 min.	approx. 10 min.*
Pot life (min. 20°C, 50% rel. air hum.)	-	approx. 5 min.	approx. 6-8 min.*
Wood (incl. MDF, chipboards)	3	2	0
Decorative boards	2	1	1
Laminates (HPL)	2	1	1
Rubber	0	2	0
Metal	3	2	3
Coatings	3	1	1
Steel, Iron	3	2	3
Copper	3	0	2
Aluminium	3	2	3
Brass	3	0	2
Porcelain/ Ceramic/ Tiles/ (not on glaze)	2	1	1
Cork	0	0	0
Cardboard (dry)	0	0	0
Leather	0	0	0
Glass	2	2	0
Concrete	2	0	2
Gas concrete/plaster/plasterboard	1	1	0
Stone	2	1	0
Plaster	1	1	0
Natural stone (marble / granite)	2	1	0
Artificial stone (Corian/ Varicor)	2	1	0
Styrofoam	0	0	0
Fabric / carpet/ textiles/ felt/ (dry)	0	0	0
Paper (dry)	0	0	0
Rigid foams (PUR, phenolic resin)	0	1	1
Plastics (PVC, ABS)	2	3	3
PMMA (acrylic glass, plexiglass)	2	3	3
Glass fiber	0	1	3
Polyolefins (PP/ PE)	0	3	0
PTFE	0	3	0
Note:	SDS, TDS	SDS, TDS	* bei 24 °C / 50 % rel. Hum SDS, TDS

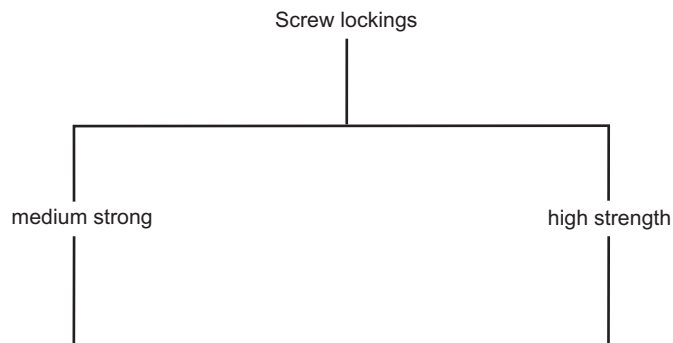
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Anaerobic adhesive/sealants – Screw lockings

Screw lockings

- bond, secure screws, nuts and bolts against loosening due to vibration and work as sealant at the same time
- replace permanently conventional fastening methods such as split pins, spring washers and washers
- one component – clean and easy to apply
- for all types and forms of threads
- curing: anaerobic, that is adhesive only cures where no oxygen gets in touch with the adhesive
- curing time: the wider the gap and the more passive the material, the slower the curing
- passive materials: e.g. precious metals, zinc, high-alloy steel, oxide and chromate layers, nickel, tin, aluminium with low CU and/or manganese content (<1%), glass, ceramic, plastic materials
- active materials: e.g. steel, copper, bronze, brass, aluminium with higher CU and/or manganese content (>1%)
- resistance against a large number of bases, gases, solvents, oils and fuels



	Screw locking medium strong – can be disassembled			Screw locking high strength – difficult to disassemble		
Technical Data	FÖRCH 5* K175 6420 4000	K118 6420 4153	K120 6420 4150 6420 4151	FÖRCH 5* K176 6420 4005	K119 6420 4158	K121 6420 4155 6420 4156
Colour:	blue	blue	blue	green	red	red
Base:	Dimethacrylic-esters	Methacrylate esters	Methacrylate esters	Dimethacrylic-esters	Methacrylate esters	Methacrylate esters
Viscosity (25°C) [mPas]:	1.500-3.000	2.000-7.500	900-1.100	500-900	8.000-15.000	400-600
Density (25°C) [g/cm³]:	1,12	1,05	1,05	1,11	1,1	1,1
Temperature resistance:	-55°C up to +150°C	-55°C up to +150°C	-55°C up to +150°C	-55°C up to +150°C	-55°C up to +150°C	-55°C up to +150°C
Max. gap filling [mm]:	+150°C	0,25	0,2	0,15	0,3	0,15
Breakaway torque [Nm]:	0,25	17-22	14-18	>25	20-35	28-35
Shear strength (DIN 54452) [N/mm²]:	21	9-13	8-12	>20	15-25	15-20
Touchable strength [Min.]:	20	10-20	10-20	5-15	20-40	10-20
Functional strength [h]:	5-15	1-3	1-3	1-3	3-6	1-3
Final strength [h]:	0,5-1	4-8	5-10	5-10	12	5-10
Max. thread (metr.):	1-3	M36	M24	M25	M36	M20
GSVO-classification:	M36	☒	☒	-	☒	☒
DVGW controlled	-	yes	-	-	yes	-
(DIN EN 751-1):	yes	-	-	yes	-	-
NSF-registration:	yes	-	-	-	-	-

Screw locking medium-strength

Threadlock.compound med-strength blueK175



- for locking and sealing threaded fasteners
- medium-strength, removable with tools



Your Advantage / Benefit

- vibration-resistant
- excellent resistance to media and heat
- exempt from labelling as per Ordinance on Hazardous Substances
- NSF Registration (NSF/ANSI Standard 61)
- DVGW approved (DIN EN 751-1), not approved for domestic gas installations as per DVGW-TRGI 2008
- With **metered delivery via screw cap**
 - practical screw cap for easy, single-handed use
 - continuously variable dispensing system for application. Optimised consumption to minimise costs
 - self-cleaning closure system, no clogging of the dispensing nozzle

Application

- threads, stud bolts, etc.
- can also be used on stainless steel and passivated surfaces



Technical Data

Viscosity (25°C):	1.500-3.000 m Pas
Density (25°C):	1.12 g/m ³
Temperature resistance:	from -55 °C to + 150 °C
Max. gap filling:	0.25 mm
Breakaway torque:	21 Nm
Shear strength (DIN 54452):	20 N/mm ²
Touchable consistency:	5-15 Min.
Functional consistency:	0.5-1 h
Final consistency:	1-3 h
Max. thread (metr.):	M36

Article No.	Article Description
6420 4000	SCREW LOCK MED. K175 50G 5*

Related Products

- **Fine Knitted Glove Polyurethane Grey**
Art.-No. 5405 91 7 - 11



- **Rapid Cleaner Safety R504**
Art.-No. 6110 0953



- **Roll of Cleaning Cloth**
Art.-No. 5413 10



Nut Lock Gel Blue - Medium Viscosity K118

- For securing and sealing of threaded connections
- Vibration resistant
- Outstanding media and heat resistance
- Hardening also in uncleaned locations, but the cleaner the surface, the stronger the connection will be
- Non-drip, high viscosity
- Medium strength, can be removed using Tools
- DVGW tested (DIN EN 751-1), not approved for gas domestic installations in accordance with DVGW-TRGI 2008



Technical Data	
Viscosity (25°C) [mPas]:	2000-7500
Density (25°C) [g/cm ³]:	1.05
Temperature resistance:	from -55 °C to +150 °C
Max. gap filling [mm]:	0.25
Breakaway torque [Nm]:	17-22
Shear strength (DIN 54452) [N/mm ²]:	9-13
Touchable consistency [Min.]:	10-20
Functional consistency [h]:	1-3
Final consistency [h]:	4-8
Max. thread [metr]:	M36

Article No.	Article Description
6420 4153	HV-NUT LOCK GEL BLUE K118 50G

Nut Lock Blue - Medium Viscosity K120

- Super fast medium viscosity thread lock retainer
- Vibration resistant
- Excellent medium and heat resistance
- Curing even at unclean parts, but the cleaner the surface, the stronger the connection
- Medium-strength, can be disassembled with tools

Technical Data	
Viscosity (25°C) [mPas]:	900-1100
Density (25°C) [g/cm ³]:	1.05
Temperature resistance:	from -55 °C to +150 °C
Max. gap filling [mm]:	0.2
Breakaway torque [Nm]:	14-18
Shear strength (DIN 54452) [N/mm ²]:	8-12
Touchable consistency [Min.]:	10-20
Functional consistency [h]:	1-3
Final consistency [h]:	5-10
Max. thread [metr]:	M24

Article No.	Article Description
6420 4150	NUT LOCK BLUE MS K120 50G
6420 4151	NUT LOCK BLUE MS K120 10ML



Screw locking high-strength

Threadlock.compound high-strength K176 **FÖRCH**★★★★

- for securing and sealing threaded fasteners which normally do not have to be loosened again
- particularly suitable for heavy-duty bolt connections



Your Advantage / Benefit

- vibration and shockproof
- excellent resistance to media and heat, high strength
- can only be dismantled with special tools or by heating to +300 °C
- exempt from labelling as per Ordinance on Hazardous Substances NSF Registration (NSF/ANSI Standard 61)
- with **metered delivery via screw cap**
 - practical screw cap for easy, single-handed use
 - continuously variable dispensing system for application. Optimised consumption to minimise costs
 - self-cleaning closure system, no clogging of the dispensing nozzle

Application

- threads, stud bolts, ball and roller bearings, etc.
- cures even on uncleaned parts (the cleaner the surface, the stronger the seal)



Technical Data

Viscosity (25°C) [mPas]:	500-900
Density (25°C) [g/cm³]:	1.11
Temperature resistance:	-55 °C to +150 °C
Max. gap filling [mm]:	0.15
Breakaway torque [Nm]:	>25
Shear strength (DIN 54452) [N/mm²]:	>20
Touchable consistency [Min.]:	5-15
Functional consistency [h]:	1-3
Final consistency [h]:	5-10
Max. thread [metr]:	M25

Article No.	Article Description
6420 4005	SCREW LOCK.HIGH-TENS. K176 50G

Related Products

- **Fine Knitted Glove**
Polyurethane Grey
Art.-No. 5405 91 7 - 11



- **Rapid Cleaner**
Safety R504
Art.-No. 6110 0953



- **Roll of Cleaning Cloth**
Art.-No. 5413 10



Thread Lock Gel Red - High Viscosity K119

- For securing and sealing of threaded connections which normally do not need to be released again
- Vibration and impact resistant
- Outstanding media and heat resistance
- Hardening also in uncleaned locations, but the cleaner the surface, the stronger the connection will be
- Non-drip, high viscosity
- High-strength, can only be released using special tools or heating to +300 °C
- DVGW tested (DIN EN 751-1), not approved for gas domestic installations in accordance with DVGW-TRGI 2008



Technical Data	
Viscosity (25°C) [mPas]:	8000-15000
Density (25°C) [g/cm³]:	1.1
Temperature resistance:	from -55 °C to +230 °C
Max. gap filling [mm]:	0.3
Breakaway torque [Nm]:	20-35
Shear strength (DIN 54452) [N/mm²]:	15-25
Touchable consistency [Min.]:	20-40
Functional consistency [h]:	3-6
Final consistency [h]:	12
Max. thread [metr]:	M36

Article No.	Article Description
6420 4158	THR.LOCK GEL RED HS K119 50G

Thread Lock Red - High Viscosity K121

- For securing and sealing of threaded connections which normally do not need to be released again
- Vibration and impact resistant
- Outstanding media and heat resistance
- Hardening also in uncleaned locations, but the cleaner the surface, the stronger the connection will be
- High-strength, can only be released using special tools or heating to +300 °C

Technical Data	
Viscosity (25°C) [mPas]:	400-600
Density (25°C) [g/cm³]:	1.1
Temperature resistance:	from -55 °C to +150 °C
Max. gap filling [mm]:	0.15
Breakaway torque [Nm]:	28-35
Shear strength (DIN 54452) [N/mm²]:	15-20
Touchable consistency [Min.]:	10-20
Functional consistency [h]:	1-3
Final consistency [h]:	5-10
Max. thread [metr]:	M20

Article No.	Article Description
6420 4155	THREAD LOCK RED HS K121 50G
6420 4156	THREAD LOCK RED K121 10ML



Anaerobic adhesive/sealant joints / assembly of bushings and bearings

Joint connection

- fasten bearings, bushings and sleeves in the delivered condition
- resistant to many media

	Joint connection / BLB high strength - difficult to disassemble	
Technical Data	FÖRCH 5* K182 6420 4018	K122 6420 4160 6420 4161
Colour	green	green
Base:	Methacrylic ester	Methacrylate ester
Consistency	high strength	high strength
Viscosity (25°C) [mPas]:	100-200	125
Density (25°C) [g/cm³]:	1,07	1,1
Temperature resistance:	-55°C up to +150°C	-55°C up to +150°C
Max. gap filling [mm]:	0,15	0,1
Breakaway torque [Nm]:	>25	25-30
Shear strength (DIN 54452) [N/mm²]:	>25	17-22
Touchable strength [Min.]:	5-10	5-10
Functional strength [h]:	30-40 min.	1-3
Final strength [h]:	3-6	6
Max. thread (metr):	M12	M12
GSVO-classification:	⚠	☒
DVGW controlled (DIN EN 751-1):	-	-
NSF-registration:	yes	-

Assembl.seal. high-strength green K182 FÖRCH *****

- for the assembling of shafts, bearings, bushings, casings, cog-wheels etc. as delivered
- excellent resistance to different media
- curing also at unclean parts, but the cleaner the surface the better the bonding
- high-strength, can only be disassembled with special tooling or when heated to +300 °C
- with NSF-registration (NSF / ANSI Standard 61)
- with **turnable dosing cap system**
 - convenient turnable cap for practical one-hand use
 - continuously adjustable dosing system fro optimized application, low-consumption and thus cost-reducing dosing
 - self-cleaning locking system, no clogging of the dispensing nozzle



Technical Data	
Viscosity (25°C) [mPas]:	100-200
Density (25°C) [g/cm³]:	1.07
Temperature resistance :	from -55 °C to +150 °C
Max. gap filling [mm]:	0.15
Breakaway torque [Nm]:	>25
Shear strength (DIN 54452) [N/mm²]:	>25
Touchable consistency [Min.]:	5-10
Functionable consistency [Min.]:	30-40
Final consistency [h]:	3-6
Max. thread [metr]:	M12

Article No.	Article Description
6420 4018	FL(50G)ASS. SEALING HF K182 5*

Bushing/Bearing Locking -high strength- green K122

- for fixation of shafts, bearings, bushings, casings, cogwheels and others in the delivered condition
- excellent resistance to media
- curing also on uncleaned parts, but the cleaner the surface the stronger the bonding
- high strength, only demountable with special tools or when heating to +300 °C

Technical Data	
Viscosity (25°C) [mPas]:	125
Density (25°C) [g/cm³]:	1.07
Temperature resistance:	from -55 °C to +150 °C
Max. gap filling [mm]:	0.1
Breakaway torque [Nm]:	25-30
Shear strength (DIN 54452) [N/mm²]:	17-22
Touchable consistency [Min.]:	5-10
Functional consistency [h]:	1-3
Final consistency [h]:	6
Max. thread [metr]:	M12



6420 4160

6420 4161

Article No.	Article Description
6420 4160	BEAR. LOCK GREEN SS K122 50G
6420 4161	BEAR. LOCK GREEN SS K122 10ML

Anaerobic adhesive / sealant - pipe thread seals

Pipe Thread Seals

- secure and tighten screw threads against gas, water, hydrocarbon, oil, LPG and many chemicals
- replace hemp, PTFE and solid seal

	Pipe Thread Seals - low strength	Pipe Thread Seals - medium strength		Pipe Thread Seals - high strength
Technical Data	FÖRCH 5* K178 6420 4012	FÖRCH 5* K177 6420 4010	K114 6420 4167	K123 6420 4165
Colour:	white	yellow	brown	green
Base:	Methacrylic ester	Dimethacrylate ester	Methacrylate ester	Methacrylate ester
Consistency (25°C) [mPas]:	180.000 - 3.300.000	18.000-30.000	500	2.500-4.000
Density (25°C) [g/cm³]:	1,1	1,05	1,05	1,1
Temperature resistance:	-55 °C up to +150 °C	-55 °C up to +150 °C	-55 °C up to +150 °C	-55 °C up to + 200 °C
Max. gap filling [mm]:	0,5	0,5	0,15	0,3
Breakaway torque [Nm]:	4-8	10-20	12-16	28-36
Shear strength (DIN 54452) [N/mm²]:	2-6	6-13	8-12	15-25
Touchable strength [Min.]:	10-20	15-30	10-20	20-40
Functional strength [h]:	1-3	1-3	1-3	6-12
Final strength [h]:	24	3-6	12	24-36
Max. thread [metr/zoll]:	M80 / 3"	M80 / 3"	M20 / 3/8"	M56 / 2"
GSVO-classification:	-	-	☒	-
DVGW controlled (DIN EN 751-1):	yes	yes	-	-
NSF-registration:	yes	yes	-	-

Pipe Thread Seals - low strength

Pipe thr.seal.PTFE low-strength-WH K178 FORCH*****

- for locking and sealing of pipe threads against gas, water, hydrocarbon, oil, LPG and many chemicals
- replaces hemp, PTFE and solid seal
- low strength, easy disassembly with tools
- no classification necessary acc. to EU-guideline (GefStoffV)
- with NSF-registration (NSF/ANSI Standard 61)
- DVGW-controlled (DIN EN 751-1), not approved for gas in-house installations acc. to DVGW-TRGI 2008
- with **turnable dosing cap system**
 - convenient turnable cap for practical one-hand use
 - continuously adjustable dosing system for optimized application, low-consumption and thus cost-reducing dosing
 - self-cleaning locking system, no clogging of the dispensing nozzle



Technical Data	
Viscosity (25°C) [mPas]:	180.000-3.300.000
Density (25°C) [g/cm³]:	1.11
Temperature resistance:	from -55 °C to +150 °C
Max. gap filling [mm]:	0.5
Breakaway torque [Nm]:	4-8
Shear strength (DIN 54452) [N/mm²]:	2-6
Touchable consistency [Min.]:	10-20
Functional consistency [h]:	1-3
Final consistency [h]:	24
Max. thread [metr/zoll]:	M80 / 3"

Article No.	Article Description
6420 4012	TB(50G)PI.THRE.SEAL.NF K178 5*

Pipe thread seal, medium-strength

Pipe thread seal medium strength yell. K177 FORCH*****

- To protect and seal screw threads against gas, water, hydrocarbon, oil, liquid gas and many chemicals
- replaces hemp, PTFE as well as solid seals
- medium strength, removable using a tool
- non-hazardous according to German Ordinance on Hazardous Substances
- with NSF registration (NSF / ANSI standard 61)
- DVGW tested (DIN EN 751-1), not approved for gas indoor installation according to DVGW-TRGI 2008
- with dosage turn-lock fastener system - practical turn-lock for effective use with one hand
 - continuous dosage system for a user-optimised, economical and cost effective dosage
 - self-cleaning turn-lock system, no plug required for the dosage nozzle



Technical Data	
Viscosity (25°C) [mPas]:	18,000-30,000
Density (25°C) [g/cm³]:	1.05
Temperature resistance:	-55 °C to +150 °C
Max. gap filling viscosity [mm]:	0.5
Breakaway torque[Nm]:	10-20
Shear strength (DIN 54452) [N/mm²]:	6-13
Fixture time [min.]:	15-30
Functional strength [h]:	1-3
Final strength [h]:	3-6
Max. thread [metric/inch]:	M80 / 3"

Article No.	Article Description
6420 4010	TB(50G)PI.THRE.SEAL.MF K177 5*

Pipe Seal K114

- For securing and sealing of screw threads against gas, water, hydrocarbons, oil, liquid gas, petrol and many chemicals
- Replaces hemp, PTFE and solid sealants
- Medium strength, can be removed using tools
- Not approved for gas domestic installations in accordance with DVGW-TRGI 2008
- Colour: brown

Technical Data	
Viscosity (25°C) [mPas]:	500
Density (25°C) [g/cm ³]:	1.05
Temperature resistance:	from -55 °C to +150 °C
Max. gap filling [mm]:	0.15
Breakaway torque [Nm]:	12-16
Shear strength (DIN 54452) [N/mm ²]:	8-12
Touchable consistency [Min.]:	10-20
Functional consistency [h]:	1-3
Final consistency [h]:	12
Max. thread [metr/zoll]:	M20 / 3/8"

Article No.	Article Description
6420 4167	PIPE SEAL K114 50G



Gas and Airline Sealer K123

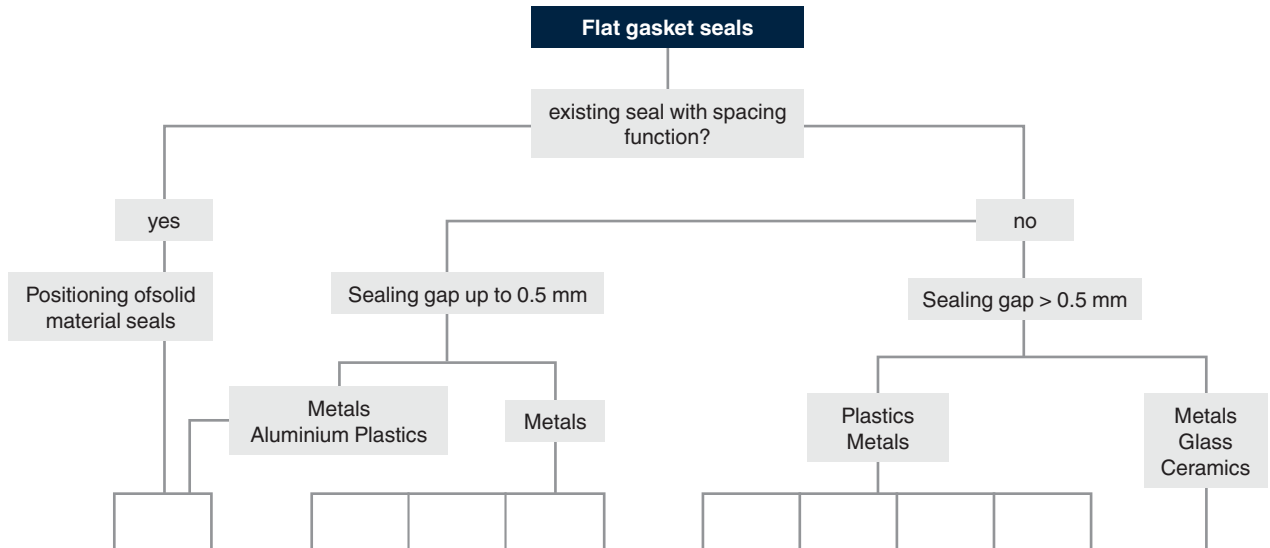
- For securing and sealing of screw threads against gas, water, hydrocarbons, oil, liquid gas and many chemicals
- Replaces hemp, PTFE and solid sealants
- High-strength, can only be released using special tools or heating to +300 °C
- Colour: green
- Marking not required in accordance with the German Ordinance on Hazardous Substances (GefStoffV)
- Not approved for gas domestic installations in accordance with DVGW-TRGI 2008

Technical Data	
Viscosity (25°C) [mPas]:	2500-4000
Density (25°C) [g/cm ³]:	1.1
Temperature resistance:	from -55 °C to +200 °C
Max. gap filling [mm]:	0.3
Breakaway torque [Nm]:	28-36
Shear strength (DIN 54452) [N/mm ²]:	15-25
Touchable consistency [Min.]:	20-40
Functional consistency [h]:	6-12
Final consistency [h]:	24-36
Max. thread [metr/zoll]:	M56 / 2"

Article No.	Article Description
6420 4165	50G SPEC-THRE.SEAL.HF K123



Flat gasket seals / motor and housing sealing compounds



Technical Data	PU flatgasketseals		Anaerobic flat gasket seals				Silicone flat gasket seals					Epoxy resin flat gasket seal
	6480 4508 6480 4509	K158 6480 4502 6480 4503	K161 6480 4510	K181 FÖRCH 5* 6480 4520	K162 6480 4515	K163 6480 4525	K164 6480 4554	K164 6480 4553	K165 6480 4555/ 6480 4550	K166 6480 4456/ 6480 4551	K167 6480 4557	K157 FÖRCH 5* 6480 4519
Colour	blue	red	green	orange	orange	red	grey	black	red	black	transp.	red
Base	Polyster uretane	Poly-urethan	Metha-crylates-ter	Dimethyl acrylic acid ester	Methyl acrylate ester	Methyl acrylate ester	Oxym silicone	Oxym silicone	Acetoxi silicone	Acetoxi silicone	Acetoxi silicone	Epoxy resin
Strength	-	-	medium strength	medium strength	medium strength	medium strength	-	-	-	-	-	-
Hardening system	Release agent	Release agent	anaero-bic	anaero-bic	anaero-bic	anaero-bic	Air humidity	Air humidity	Air humidity	Air humidity	Air humidity	Heat >70 °C
Viscosity (25 °C)	-	-	17 – 50 Pas	28 – 40 Pas	30 – 100 Pas	50 – 250 Pas	-	-	-	-	-	5,5 – 6,5 Pas
Density (25 °C)	1,03 g/cm³	1,10 g/cm³	1,05 g/cm³	1,05 g/cm³	1,10 g/cm³	1,10 g/cm³	1,18 g/cm³	1,04 g/cm³	1,09 g/cm³	1,04 g/cm³	1,04 g/cm³	1,08 g/cm³
Temperature resistance	-50 °C up to +250 °C	-55 °C up to +270 °C, briefly +300 °C	-55 °C up to +150 °C	-55 °C up to +150 °C	-55 °C up to +150 °C	-55 °C up to +150 °C	-60 °C up to +260 °C, briefly +315 °C	-60 °C up to +260 °C, briefly +315 °C	-50 °C up to +270 °C, briefly +300 °C	-50 °C up to +230 °C, briefly +260 °C	-50 °C up to +230 °C, briefly +250 °C	-55 °C up to +280 °C
Max. gap filling capacity	0,2 mm	0,2 mm	0,3 mm	0,5 mm	0,5 mm	0,5 mm	-	-	-	-	-	2,0 mm
Brakeaway torque	-	-	2 – 4 Nm	>8 Nm	5 – 8 Nm	7 – 10 Nm	-	-	-	-	-	-
Sher strength (DIN 54452)	-	-	7 – 10 N/mm²	5 – 10 N/mm²	5 – 10 N/mm²	8 – 13 N/mm²	-	-	-	-	-	-
Sturdiness	-	-	20 – 40 min	10 – 20 min	15 – 30 min	20 – 40 min	-	-	-	-	-	-
Function strength	-	-	3 – 6 h	3 – 6 h	1 – 3 h	1 – 3 h	-	-	-	-	-	-
End strength	-	-	6 – 24 h	6 – 24 h	6 – 24 h	12 h	-	-	-	-	-	-
GSVO-marking				-			-	-	-	-	-	
Pressure resistance	-	-	300 bar	-	300 bar	300 bar	-	-	-	-	-	690 bar
DVGW tested (DIN EN 751-2)	yes	-	-	-	-	-	-	-	-	-	-	-
NSF-Registration	-	-	-	yes	-	-	-	-	-	-	-	-

Superglue - Cyberspeed Adhesive K187 FORCH*****

- At cyberspeed high-strength cyanoacrylate adhesive
- With NSF registration (NSF / ANSI Standard 61)
- With **turnable dosing cap system**
 - convenient turnable cap for practical one-hand use
 - continuously adjustable dosing system for optimized application, low-consumption and thus cost-reducing dosing
 - self-cleaning locking system, no clogging of the dispensing nozzle



Technical Data	
Colour:	transparent
Viscosity (25 °C):	20–40 mPas
Temperature resistance:	from -30 °C to +80 °C
Max. Gap filling:	0.05 mm

Article No.	Article Description
6410 4131	SUPERGLUE-CYBERSP.ADH.K187 20G

Rapid Super Glue Adhesive - High Grade K131

- Rapid high-grade cyanoacrylate glue
- For rapid bonding of metal, plastic- and rubber parts

Technical Data	
Colour:	transparent
Viscosity (25 °C):	3–15 mPas
Temperature resistance:	from -60 °C to +80 °C
Max. gap filling:	0.03 mm

Article No.	Article Description
6410 4130	RAPID SUPER GLUE ADH.K131 20G



Superglue BLACK K188 FORCH*****

- At cyberspeed high-strength cyanoacrylate adhesive
- For bonding metal, plastic and rubber parts
- For thermal and mechanical cyclic loads
- High impact and peel strength
- With **turnable dosing cap system**
 - convenient turnable cap for practical one-hand use
 - continuously adjustable dosing system for optimized application, low-consumption and thus cost-reducing dosing
 - self-cleaning locking system, no clogging of the dispensing nozzle

Technical Data	
Colour:	Black
Viscosity (25 °C):	300 - 500
Temperature resistance:	-55 °C up to + 120 °C, short-term to +140 °C
Max. Gap filling:	0.1 mm

Article No.	Article Description
6410 4137	SUPERGLUE BLACK K188 5* 20G



Superglue - high viscosity - K189 FORCH****

- At cyberspeed high-strength cyanoacrylate adhesive
- For bonding ceramic, ferrite, sintered metals, wood, cork, leather, textiles etc.
- Suitable for porous material and for uneven, rough surfaces of the parts to be joined
- With **turnable dosing cap system**
 - convenient turnable cap for practical one-hand use
 - continuously adjustable dosing system for optimized application, low-consumption and thus cost-reducing dosing
 - self-cleaning locking system, no clogging of the dispensing nozzle
- With **dosing lever system and pedestal**
 - stable and safe standing
 - simple and effortless dispensing of the adhesive



Technical Data	
Colour:	transparent
Viscosity (25°C):	1,800 – 2,200 mPas
Temperature resistance:	-30 °C up to +80 °C
Max. Gap filling:	0,15 mm

Article No.	Article Description
6410 4139	SUPERGL.HIGH VISC.K189 30G 5*

Superglue K186 FORCH****

- Super fast high-strength cyanoacrylate adhesive
- For bonding metal, plastic and rubber parts
- With **turnable dosing cap system**
 - convenient turnable cap for practical one-hand use
 - continuously adjustable dosing system for optimized application, low-consumption and thus cost-reducing dosing
 - self-cleaning locking system, no clogging of the dispensing nozzle

Art-No. 6410 4108:

- With NSF-registration (NSF/ANSI Standard 61)
- With **dosing lever system and pedestal**
 - stable and safe standing
 - simple and effortless dispensing of the adhesive

Technical Data	
Colour:	transparent
Viscosity (25°C):	70 – 120 mPas
Temperature resistance:	-30 °C up to +80 °C
Max. Gap filling:	0,1 mm

Article No.	Article Description
6410 4107	SUPERGLUE K186 5G 5*
6410 4108	SUPERGLUE K186 30G 5*



Superglue K139

- Super fast high-strength cyanoacrylate adhesive
- For bonding metal, plastic and rubber parts
- With **NSF-P1-registration** for the bonding in food-contact applications

Technical Data	
Colour:	transparent
Viscosity (20°C):	80 – 200 mPas
Temperature resistance:	-60 °C up to +80 °C
Max. Gap filling:	0,07 mm

Article No.	Article Description
6410 4100	BT CYANCRYLAT-ADH. K130 20G



Superglue Easy-Lock K144

- Super fast high-strength cyanoacrylate adhesive with Easy-Lock turnable lock
- For bonding metal, plastic and rubber parts

Technical Data

Colour:	transparent
Viscosity (25°C):	80 – 200 mPas
Temperature resistance:	-60 °C up to +80 °C
Max. gap filling:	0,1 mm



Article No.	Article Description
6410 4102	SUPERGLUE EASY-LOCK K144 20G
6410 4103	SUPERGLUE EASY-LOCK K144 50G

Super Glue Adhesive K130/K133

- Very fast high-performance cyanoacrylate adhesive
- For bonding metal, plastic and rubber parts

Technical Data

K133	
Colour:	transparent
Viscosity (25°C):	45.000 – 85.000 mPas
Temperature resistance:	-60 °C up to +80 °C
Max. gap filling:	0,5 mm

K130	
Colour:	transparent
Viscosity (25°C):	80 – 200 mPas
Temperature resistance:	-60 °C up to +80 °C
Max. gap filling:	0,1 mm



Article No.	Article Description
6410 4110	SUPER GLUE ADHESIVE K133 3G
6410 4105	SUPER GLUE ADHESIVE K130 5G

High Temperature - Rapid Super Glue K132

- Superfast, high viscosity special heat-proof cyanoacrylate adhesive
- For bonding metal, plastic, wood, glass, ceramics etc.
- For thermal and mechanic alternating use
- High impact and peel resistance

Technical Data	
Colour:	transparent
Viscosity (25 °C):	1.000 – 5.000 mPas
Temperature resistance:	from -60 °C to +150 °C
Max. gap filling:	0,35 mm

Article No.	Article Description
6410 4135	HT RAPID SUPER GLUE K132 20G



Accelerator for Cyanoacrylate Adhesives K145

- Accelerator for superfast binding of cyanoacrylate adhesives
- Application:**
- Spray shortly the area assembled with cyanoacrylate adhesive. The cyanoacrylate adhesive binds immediately

Article No.	Article Description
6410 4146	CA-ACCELERATOR 150ML K145



2K-CA K170 super glue gel

- High quality 2 component glue based on cyanoacrylate
- Excellent adhesive properties on many materials and plastic, such as wood, paper, leather, textiles, metals, rubber, PVC, ABS, PC, PBT and acrylic glass (PMMA)
- Universally applicable, for quick and easy repair and permanent adhesion
- Extremely impact resistant and can be mechanically processed

Your Advantage / Benefit

- Due to its thixotropic properties, this adhesive is drip-free and well suited for overhead work and on vertical surfaces
- High gap filling capacity of up to 6 mm
- Very good media resistance (e.g. petrol and diesel)
- Transparent adhesion on PMMA

Application

- Broad application range in the workshop, building trade and industrial sectors
- E.g. for the adhesion of parking sensors on cars, or distribution sockets and cable ducts in electrical installation work
- Set up the mixer, put the piston into the double syringe and apply a small amount of glue before adhesion
- After applying the adhesive always press the parts together within 1 minute



6410 4170

6410 4171

Technical Data

Base:	Mixture A & B
Mixing ratio:	4:1
Processing time:	Approx 3 mins
Final hardening:	24 h
Gap filling capacity:	6 mm
	Polycarbonate: 15 sec.
Temperature resistance:	-20 °C up to +80 °C (temporary up to +120 °C)

Article No.	Article Description
6410 4170	2K CA SUPER GLUE GEL 10G K170
6410 4171	NOZZLE F.2K-CA SUPER GLUE K170

Delivery scope:

- 1 x adhesive syringe, 10 g.
- 3 x static mixers
- 1 x piston



2K-CA super glue gel set

Contents:

Article No.	Article Description	Quantity
6410 4170	2K CA SUPER GLUE GEL 10G K170	3
6410 4171	NOZZLE F.2K-CA SUPER GLUE K170	10

Article No..	Article Description
6410P 4170 3	2K-CA SUPER GLUE GEL SET



Zinc-flake spray L228

- Highly effective thin layer of zinc
- ideal for subsoil structures or as a stable surface
- long-term corrosion protection with additional barrier protection due to zinc flakes and nano particles
- ideal as excellent metal primer for original manufacture and repair of damaged zinc phosphate layers
- quick-drying, can be spot-welded and levelled over, good functionality in conjunction with PU and MS polymer sealants, can be over-painted using commercial 1K and 2K topcoat systems (prior compatibility testing recommended)
- temperature resistant up to +240°C
- Drying:
 - bone-dry: approx. 15 min.
 - grip-dry: approx. 30 min.
 - completely dry: approx. 10 - 12 hrs.
 - may be painted on after approx. 12 hrs.



Application:

- the parts being treated must be clean, dry, grease and rust-free
- shake the can for at least 2 minutes before opening
- spray thinly from a distance of approx. 15 - 20 cm (1 spray = approx. 20 µm). There should be a second spray for metals with greater surface roughness
- allow to dry for approx. 5 mins when sprayed several times

Former zinc sprays:Spherical zinc pigments and a relatively large layer thickness formed the basis for protection against corrosion.

Zinc-flake spray:Platelet shaped zinc pigments with a large specific surface geometry form a very high barrier effect with regards to low layer thickness and therefore a much better protection against corrosion.

Advantages of zinc flakes:

- contact, conductivity and the cathodic corrosion protection remain even when the zinc flakes are being moved as the pigments lie closely on top of one another, improved ability to weld
- better resistance against environmental influences due to the long diffusion paths, the penetration of water and moisture is made considerably more difficult as the flakes have a great hydrophobic (water-repellent) surface
- Surface of the layer is smoother and stronger, better grip and better layer strength

Comparative Chart

Former zinc sprays: (zinc dust)	Former zinc sprays: (Thin zinc)
spherical zinc pigments and a relatively large layer thickness formed the basis for protection against corrosion.	platelet shaped zinc pigments with a large specific surface geometry form a very high barrier effect with regards to low layer thickness and therefore a much better protection against corrosion.
spherical	thin zinc
large layer thickness formed the basis for protection against corrosion	low layer thickness and therefore a much better protection against corrosion
high proportion of zinc in the dry film	low proportion of zinc in the dry film
active cathodic corrosion protection	active cathodic corrosion protection
-	passive corrosion protection by barrier effect

Article No.	Article Description
6200 2108	ZINC-FLAKE-SPRAY L228 400ML

- Active corrosion protection according to DIN 50021
- Protects from rust and salt
- Suitable for re-galvanising of welding and cutting points
- Smooth, pore-free film
- Fast drying, overpaintable after approx. 15-30 minutes
- Can be spot welded also in dry condition

L240: professional

- Zinc contents of pigments more than 98.5 %
- Zinc contents in the dry film more than 92 %
- Coverage 1.7sq at 30 µm dry layer thickness
- Salt spray test at 480 hours according to DIN SS-50021
- Temperature resistant from 20°C to +600 °C

L241: premium

- Zinc contents in dry film more than 90 % zinc
- Coverage 1.4 qm at 30 µm dry layer thickness
- Temperature resistant up to +500 °C

Article No.	Article Description
6200 2100	ZINC RICH SPR.PROF. L240 400ML
6200 2101	ZINC SPR.PREM.GREY L241 400ML



Zinc Particle - Repair Colour L232

- High zinc-containing repair colour
- For repairing weld seams and damaged parts at zinced surfaces
- Zinc gleam finish
- Greater than 90% metallic particles in pigment
- Heat-resistant corrosion protection up to +300 °C
- Hardening:
 - Dust dry: approx. 15 minutes
 - Touch-proof: approx. 45 minutes
 - Hardened: approx. 2 - 3 days

Application:

- The substrate must be dry, dust and grease-free
- Apply zinc repair colour in 2 - 3 layers. Allow short flash off time between coats.



Article No.	Article Description
6200 2102	ZC PARTICLE REP.COLOUR 1000ML

Zinc Spray - Bright L244

- For optimum repair, improvement and protection against corrosion of metallic surfaces
- Active corrosion resistance according to DIN 50021
- Salt spray test at 528 hours according to DIN 20021
- Corrosion resistant zinc coating in hot-dipped colouring
- Weather-resistant and protects against rust and salt
- For aftertreatment of damaged hot-dipped galvanised parts
- Fast drying
- Can be spot-welded
- Overpaintable with commercially available plastic resin paint systems. Test spraying is recommended.
- Temperature resistant up to +400 °C
- Zinc contents of pigments more than 98 %
- Zinc contents dry film approx. 70 %
- Parts to be treated must be clean, dry, free of grease and rust
- Shake aerosol vigorously for approx. 2 minutes after mixing ball is heard
- Cross spray from a distance of approx. 20 – 30 cm. One coat usually sufficient. For additional coats allow 5 minutes between coats.
- Not suitable for over-laying with fillers
- Not suitable as undercoat for PU, MS-polymer and hybrid sealing compounds



Article No.	Article Description
6200 2104	ZINC SPRAY - BRIGHT L244 400ML

Alu Zinc Spray L242

- Long-lasting corrosion protection according to DIN 50021
- Light glossy colour
- Enhances zinc-plated and hot-dipped galvanised parts due to its colouring and corrosion protection
- Combines the lighter colouring of aluminium with the corrosion protection and abrasion-resistance of the zinc spray
- Conductive and heat-resistant up to +500 °C
- Can be spot welded
- Fast drying, overpaintable after 15 - 30 minutes
- Especially suitable for spot and MIG welding

Article No.	Article Description
6200 2110	ALU ZINC SPRAY L242 400ML



Alu Spray L243

- For enhancement and repair work
- Long-term prevention of corrosion due to acrylic resin layer
- The dry layer of Alu Spray is abrasion and heat-resistant up to +600 °C
- Overpaintable after 15 - 30 minutes

Article No.	Article Description
6200 2105	ALU SPRAY L243 400ML



INOX - Welding Spray L234

- Fast drying, excellent adhesive surface coating based on acrylic resin and high-quality metal pigments (stainless steel)
- Dual cathodic corrosion protection and synthetic surface coating effects
- Sealing of welding spots and corrosion protection between body sheets
- Excellent covering power, overpaintable
- High filling capacity and excellent surface hardening
- Temperature resistant up to approx. +110 °C
- Fast drying:
 - - dust-dry after 3 - 5 min.
 - - final hardening approx. 2 hours

Application:

- Sand and clean the surface.
- Shake aerosol before use and apply crosswise and thinly onto the parts to be treated
- Allow to dry for a short time.



Article No.	Article Description
6200 2205	INOX WELDING SPRAY L234 500ML

CU Weld Spray L233

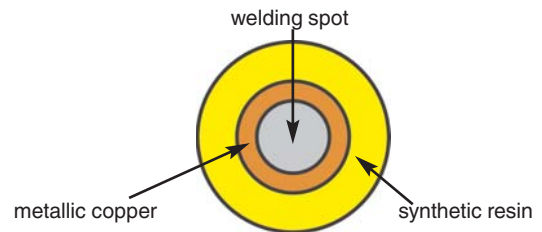
- Copper and spot-welding sealer for spot and protective MIG welding
- Improves contact
- Protects welding spots and sheet metals from corrosion
- Contains 50 % copper metal
- Can be welded wet and dry
- Applicable on almost all kinds of ferrous materials (steel, zinc-plated steel)
- CU Weld Spray cannot be painted over. De-grease any CU overspray before top coating.
- Prior to coating, sand and degrease welding spots
- The normal temperature resistance of the paint (dry film) is approx. 60 °C (starting adhesion); from approx. 450 °C the synthetic almost nearly completely evaporates. A pure copper coat remains. The temperature resistance is approx. 600 °C.

Application fields:

- Car bodies, containers, housings, coverings, casings etc.

Application:

- Sand and clean the surface
- Shake aerosol before and spray onto the area to be welded
- Allow to dry for a short time



Article No.	Article Description
6200 2200	CU WELD SPRAY L233 400ML

Welding Primer L208

- Protects from corrosion during the welding process of body sheets
- Guarantees corrosion-free welding connections
- Optimum conductivity of the welding current during the resistance welding process
- No splashes during the welding process
- Protects welding nozzles and work pieces from sticking and seizing
- Brush mounted in the cover plate



Article No.	Article Description
6730 0910	WELDING PRIMER L208 500ML

Stainless Steel Cleaning Wipes R548

- Clean and polish steel surfaces without scratching



Nonfood Compounds
Program Listed (C1)
(Registration 150747)



Your Advantage / Benefit

- For cleaning stainless steel, copper, aluminium, chrome, formica, brass, porcelain, etc.
- Protects against water marks and corrosion
- Removes stains, finger marks, grease, dirt film and heavy soiling
- Quickly, easily and effectively
- No drips
- No overdosing
- Ready to use

Application

- Wear protective gloves!
- Open cloth and unfold completely
- Rub and remove stains and deposits with the rough side of the cloth
- Wipe down the surface with the smooth side of the cloth and polish
- For extra shine, polish with a clean, dry cloth



Article No.	Article Description
6130 9107	TIN(30)STAINL.ST.WIPES R548

Related Products

- **Grinding Fleece Roll**
Art.-No. 5950 180



- **Food Industry Safe - Machinery Cleaner**
Art.-No. 6130 1860



- **Roll of cleaning cloth**
Art.-No. 5413 10



- **Fine Grip Gloves Duo-Grip**
Art.-No. 5405 117 7 - 10



Rust Solvent Black Magic S411

- Dissolves quickly seized screw connections and bolts
- Extreme pressure resistance due to graphite content
- Maintains and preserves
- Compatibility with sealing gaskets
- Capable of creep, displaces and infiltrates
- Synthetic rust solvent - graphite based
- Safety spray head with ball valve
- Resistant / pressure-resistant

Your Advantage / Benefit

- Graphite ensures long-lasting dry lubrication
- Overhead spraying (360°)
- No unintentional actuation of spray head
- Preserves and protects the sprayed surfaces against humidity, moisture and salt water

Application

- Suitable for application on spring suspensions, plugs and injection nozzles, all seals and mounting parts, exhaust systems, turbo chargers, nuts and screws, Bowden cables, chain drives, wire rope roists, control instruments, wiper axis, brake linkages, etc.



Technical Data	
Basis:	synthetic oil with graphite content
Colour:	anthracite
Water-soluble:	insoluble

Article No.	Article Description
6700 0048	BLACK MAGIC S411 400ML

Related Products

■ **Hand-Wire Brush**
Art.-No. 5850 4



■ **Twist Drill Cobalt DIN 338**
HSS-E
AGR 5502



■ **Nitrile Gloves Blue FORCH**
Art.-No. 5405 5 200 7 - 10



■ **Power Spot**
Art.-No. 5482 60



Rust Off Magic S413 **TRUCKline**

- Synthetic graphite based rust remover
- Fast acting
- Resistant to extreme pressures
- Infiltrates tightest tolerance and removes dampness and moisture, protects contacts
- Applies a long lasting durable lubricating film during disassembly, eliminates squeaking and creaking
- Does not affect rubber
- Preserves and conserves
- Aerosol can with ball valve can be used in every position
- Safety spray head
- Suitable use on joints, nuts and bolts, chain drives, exhaust systems, turbochargers, cable pulley's etc.



Article No.	Article Description
6700 0074	RUST OFF MAG.TRUCK S413 500ML

Rust Remover Magic Ice S412

- Rust remover with cold cracking effect
- Safety spray head

Your Advantage / Benefit

- Fast and powerful cooling to about -40°C
- Microfissures are created through which the active ingredient penetrates and breaks up the rust
- Penetrates rust, oil carbon and grease with high capillary action
- Aerosol can with a ball valve can be used in any position
- With environmentally neutral propellant



Application

- Remove coarse dirt
- Shake well before use
- Generously spray surfaces to be treated from distance of 10-15 cm and leave for 1-2 minutes to work
- Due to sudden cooling down to about -40 °C microfissures are created through which the active ingredient penetrates and breaks up the rust
- For stubborn cases, repeat process



Article No.	Article Description
6700 0080	RUST REM.MAGIC ICE S412 400ML

Related Products

- **Fine Knitted Gloves Duo Grip**
Art.-No. 5405 117 7 – 10



- **Ring Joint Ratchet Wrench Set**
Art.-No. 4629 2



- **"Beta" Safety Glasses**
Art.-No. 5400 902 1



Rust Off Super Rapid S410

- Rust remover, contact agent and lubricants based on mineral oils, with MoS₂ formula
- Loosens jammed Connections such as screws, nuts and bolts



6700 0026

6700 0029



6700 0049

Article No.	Article Description
6700 0026	RUST OFF SUP.RAPID S410 300ML
6700 0027	RESERVIERT
6700 0029	RUST OFF SUPER RAPID S410 5L
6700 0049	RUST OFF SUPER RAPID S410 30L

Suitable spout:

- 30 l: Art.-No. 6000 0025

Your Advantage / Benefit

- Protects against corrosion, greases sliding surfaces, removes squeaking and creaking
- Displaces water from ignition contacts and electric wires
- Ensures contact to distributor caps
- Loosens resins

Application

- Brake linkage, Bowden cable, chains of all sorts etc.
- For service, repair, maintenance and production
- Spray on the components, let it react for a short time and repeat if needed



Related Products

- **Hand-Wire Brush with Wooden Handle**
Art.-No. 5850 4



- **MaxiFlex Endurance Partially Coated FORCH**
Art.-No. 5405 5 306 6 - 12



- **Power-Spot**
Art.-No. 5482 60



Rust Remover for Food Areas S469

- Synthetic high performance rust remover
- Loosens rusted fastenings, ingresses into smallest fits, prevents further corrosion, excellent lubrication
- Solves gumming and provides durable rust and corrosion protection
- Swamps out moisture and prevents creepage current and ignition problems
- Temperature resistant from -40 °C up to +70 °C
- **With NSF-H1-registration** for the use in food-contact applications
- The spray's active ingredient complies with the provisions of the German Food, Commodities and Feed Code (LFGB, §2, section 6, clause 1), as well as with the U.S. requirements in accordance with „Guidelines of Sec. 21 CFR 178.3570 of FDA Regulations“ and is NSF-H1-listed
- With safety spray head

Application:

- Apply to the parts to be treated, then disassemble
- In case of heavily rusted parts, let act first, repeat procedure if necessary



Article No.	Article Description
6700 0035	RUST REMOV.FOOD H1 S469 400ML

Maintenance Oil S407

- Long-lasting lubrication for locks, hinges, Bowden cables, attachment and clamping devices
- Temperature-resistant from -30 °C to +150 °C



6520 5750

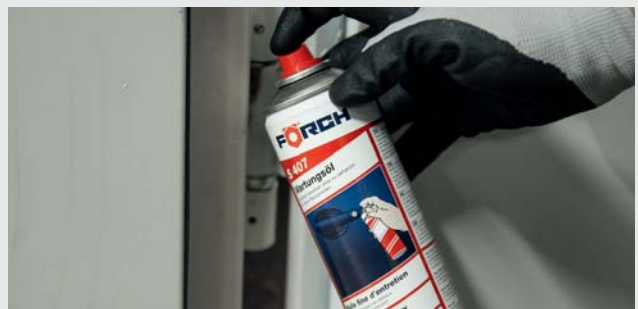
6520 5755

Your Advantage / Benefit

- Guaranteed resin-free, hydrated white oil
- Colourless, will not stain
- Loosens resin deposits, makes movable parts run smoothly
- Prevents freezing of locks
- Can be used as a lubricant for drill hammer shafts and for weapons
- Can also be used as gun oil
- Silicone-free, acid-free

Application

- For lubrication of drill hammer shafts, door locks, rodding, window and door hinges, attachments, holding brackets for metal-processing machines, etc.



Article No.	Article Description
6520 5750	MAINTENANCE OIL S407 300ML
6520 5755	CAN(5L)MAINTENANCE OIL S407

Related Products

- **Fine Knitted Gloves Duo Grip**
Art.-No. 5405 117 7 – 10



- **Pressure Pump Spray 1.0 l**
Art.-No. 6000 0065



- **Hand Spray**
Art.-No. 6000 0015



- **Rapid Cleaner Safety R504**
Art.-No. 6110 0953



Service Spray S400

- Cleans and protects
- Eliminates squealing
- Loosens rusted parts
- Releases loosened lock mechanisms
- Resistant to moisture
- Silicone-free
- Temperature range from -50 °C to +80 °C
- Aerosol with ball valve can be used in any position
- With safety spray nozzle

Application:

- Removes coloured pen stains, grease, tar, rubber, adhesive and lime residues
- Provides a protective layer against rust and corrosion for e.g. bicycles, prams, chromed parts, motorcyles and tools
- Penetrates into threads and lubricates hinges, rollers, springs, water taps, window and door handles, pedals, office chairs etc.
- Penetrates deeply and loosens rusted, corroded and seized nuts, screws, switches, cables etc.
- Loosens and lubricates jammed door locks, zip fasteners, sewing machines, typewriter keys, switches, cables etc.
- Eliminates water from metal surfaces e.g. electrical contacts, ignitions, tools, motorcycles, outboard engines etc...



6520 5760



6520 5761

Article No.	Article Description
6520 5760	SERVICE SPRAY S400 400ML
6520 5761	CAN(20L)FULL-SERVICE S400

High Performance PTFE Oil S408

- High Quality lubricant with PTFE added



Your Advantage / Benefit

- Extremely capable of creep into tightest tolerances
- Pressure-resistant and emergency running lubrication
- Resistant to water, salt, diluted acids and alkalis
- Highly adhesive on areas treated, leaves a non-greasy lubricating film
- Prevents coking, friction, squeaking and creaking

Application

- All lubricated areas which are exposed to the weather, temperature fluctuations, pressure and soiling such as door hinges, linkages, chains and locking cylinders, frame joints etc.



Technical Data	
Colour:	yellowish
Temperature resistance:	-30 °C to +250 °C

Article No.	Article Description
6520 5575	HP PTFE OIL S408 500ML

Related Products

- **Nitrile Gloves Blue FORCH**
Art.-No. 5405 5 200 7-10



- **Spunlace Cleaning Cloth**
Art.-No. 5413 15



- **Rapid Cleaner Safety R504**
Art.-No. 6110 0953



Rapid Cleaner Safety R504

- Safety cleaner for metal, glass, ceramic etc.
- Increased application safety with the same performance
- Fast and thorough removal of grease, oil, dust etc.
- Optimum cleaning of brakes, tools, machines, mounting and add-on parts
- With TÜV-approved fire and explosion behaviour according to testing method TPS PPP 53285
- Free of acetone, AOX and silicone

Application:

- Spray on parts to be treated until dirt and grease are rinsed
- If necessary, finish using a brush, cloth or cleaning paper
- Repeat the process in case of stubborn dirt
- Do not spray on hot parts
- Preliminary tests on painted surfaces, plastic and rubber parts are recommended



Article No.	Article Description
6110 0953	RAPID CLEAN.SAFETY 500ML R504

Rapid Cleaner R501

- Degreasing agent for the thorough cleaning of contaminated and dirty metal, glass and many more substrates
- Ideal for cleaning assembly parts prior to assembly



Article No.	Article Description
6110 0950	RAPID CLEANER R501 500ML

Engine Cleaner R519

- For the cleaning of engine and engine compartment, associated gear and machines
- Fast and thorough removal of oil, grease, tar etc.
- Protects the material
- Also reaches areas difficult to access

Application:

- Cover the ignition system using the plastic film or protective barrier
- Spray thoroughly onto the parts to be treated from a distance of 30 cm, allow to react for 10 minutes and then rinse with clean water using a hose or jet system



Article No.	Article Description
6100 1805	ENGINE CLEANER R519 300ML

Engine Cleaner Concentrate R520

- Ideal for the cleaning of engines, engine compartment, gear, chassis
- Ideally suitable as a concentrate for high-pressure cleaners with water mixing ratio 1:20 to 1:50
- Biodegradable
- Alkaline

Article No.	Article Description
6100 1810	ENGINE CLEANER CONCEN.R520 25L

Suitable spout:

- 25 l: Art.-No. 6000 0025 / 6000 0029



Carburettor/Injection Manifold Cleaner R577

- Removes dirt and deposits from the carburetor and injection system without dismantling (e.g. choke flaps)
- Facilitates the adjustment of CO and HC emission values
- Suitable for use with catalytic converters
- Aerosol containers with ball valve can be used in all positions
- Contains acetone

Application:

- Carburetor engines: spray on air filter, air nozzles, air conductions, air intake and adjusting screws
- Fuel-injected engine: spray on air intake pipe and inside of the open side of the PVC flap (of the crankcase ventilation)



Article No.	Article Description
6110 1050	CARB.MANIF.CLEANER R577 300ML

Air-Flow Sensor Cleaner R576

- For the cleaning of delicate components of the air-flow sensor
- For gasoline and diesel engines
- Dissolves oil, dust and soot deposits on the heat wire or the heat plate
- Cleaning ensures stable motor performance, lower fuel consumption and also better gear shifting for vehicles with automatic transmission
- In most cases the cleaning can avoid the expensive exchange of the sensor



Your Advantage / Benefit

- Excellent cleaning action
- Easy application, economic
- Rapid and residue-free evaporation
- For petrol and diesel engines

Application

- Remove air mass sensor
- Release electrical connection and spray on the soiled component (e.g. hot wire or hot plate) and let the dirt drain off
- Let the solvent drip off before Assembling. Application is recommended for each replacement of air filter
- Do not touch sensitive components



Article No.	Article Description
6110 1060	AIRFLOW SENS.CLEAN. 200ML R576

Related Products

- **Screwdriver Hexagon, Flexible**
 - Art.-No. 3295 650
 - Art.-No. 3295 750
 - Art.-No. 3295 850



- **"Beta" Safety Glasses**
 - Art.-No. 5400 902 1



R599 workshop cleaner

- Universal, alkaline special cleaner concentrate, miscible with water up to 1:20
- pH value undiluted: 9.0
- Quickly and reliably removes oil, grease etc.



6130 1850

6130 1855



6130 1856

Article No.	Article Description
6130 1850	WORKSHOP CLEANER R599 5L
6130 1855	WORKSHOP CLEANER R599 25L
6130 1856	WORKSHOP CLEANER R599 60L

Matching dispensing tap:

- 5 l: Art.-No. 6000 0020
- 25 l: Art.-No. 6000 0025/6000 0029
- 60 l: Art.-No. 6000 0025

Your Advantage / Benefit

- Biodegradable
- Also suitable for high pressure cleaners
- Free from NTAs
- Leaves no streaks on paint, glass, aluminium and stainless steel
- Can also be used to cleaning chassis, machines, workplaces and workshop floors

Application

- The use of hot water supports the cleaning effect
- R599 workshop cleaner is applied to the surfaces to be cleaned via high pressure cleaners, fog tank or foam lance
- Allow the cleaner which is misted or foamed on to the surface to take effect for around 5 min and then rinse thoroughly with a high pressure device or a strong water jet



Related Products

■ Disposable Gloves Latex
Art.-No. 5405 210 1 – 4



■ Tornador Clean Foam
Art.-No. 3945 16



■ Workshop broom
Art.-No. 5410 665



■ Plastic Rubber Squeegee
Art.-No. 5410 70 1



■ Pressure Pump Spray
Art.-No. 6000 0065



Drilling and cutting paste

- Lubricates and cools cutting tools for machining metals, and clamping and cutting operations
- Improved surface quality through optimum lubrication of the tools
- Free of chlorine and heavy metals

Your Advantage / Benefit

- Extends the tool life while drilling, thread cutting, lathing, milling, sawing, etc.
- Machining on vertical surfaces
- Good corrosion protection

Application

- Also suitable for the machining of difficult to cut steels (VA, titanium, manganese, etc.)



Article No.	Article Description
6580 5820	C(500G) DRILLING-CUTTING PASTE
5416 2	ENAMEL VARNISH BRUSH 2

Related Products

- **Magnetic chip lifter**
Art.-No. 5400 902 1



- **Enamel varnish brush**
Art.-No. 5416 2



- **Magnetic chip lifter**
Art.-No. 4755 10



Drilling and cutting oil

- Extends the service life of clamping and cutting tools
 - Can be used while drilling, thread cutting, sawing, turning or milling
- Art.-No. 6580 5800:**
- Cutting oil spray with an environmentally-friendly propellant

Your Advantage / Benefit

- Penetrates into the tightest installations
- Cools and protects against corrosion
- Silicone-free

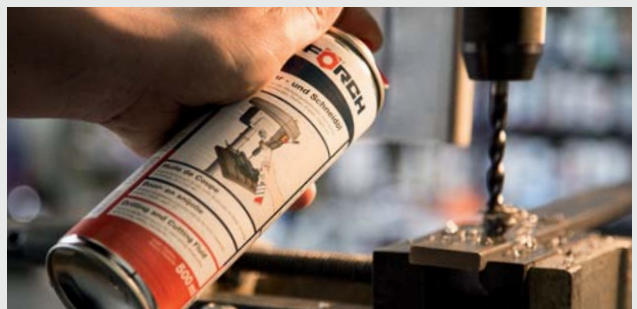
Application

- Suitable for all materials – such as stainless steel, acid-resistant steels, spring steel, cast iron, also non-ferrous metals such as aluminium, titanium, bronze, copper



6580 5800

6580 5805



Article No.	Article Description
6580 5800	DRILL. AND CUTTING FLUID 500ML
6580 5805	DRILLING&CUTTING FLUID 5L

Art.-No. 6580 5805:

- suitable dispensing tap, Art.-No. 6000 0023
- suitable plastic case Art.-No. 6000 0065 / 6000 0080

Related Products

- "Beta" Safety Glasses
Art.-No. 5400 902 1



- Coolant Hose Basic Set
Art.-No. 5595 12 1 / 5595 14 1



5595 12 1



5595 14 1

- Magnetic chip lifter
Art.-No. 4755 10



Drilling and cutting foam

- Highly adherent cutting oil foam for targeted application to the area to be worked on
- Lubricates and cools tools while drilling, tapping and threading, lathing, milling, sawing, etc.
- Extends tool life
- For work on vertical surfaces and overhead
- Compatible with all water-miscible cooling lubricants
- Soluble in water, can be washed off with clean water
- Free of chlorine, sulphur and mineral oils
- Biodegradable
- For machining all alloyed and non-alloyed metals and cast irons, as well as copper, copper alloys and all stainless steel alloys



Article No.	Article Description
6580 5815	DRILL AND CUTTING FOAM 400ML

Drilling and Cutting Emulsion - Water Soluble

- EP Cooling lubricant that can be mixed with water (EP = Extreme Pressure for heavy duty machining)
- High performance cutting and cooling emulsion
- Greater corrosion-protection
- Extremely resistant against microorganisms
- Longer tool life
- Application concentration: 5 – 20%
- Silicone-free
- Also suitable for use in CNC machines

Application:

- Preparation of operation emulsion: carefully add and stir the emulsion to drinking water or use a automatic mixing device.



Article No.	Article Description
6580 5810	(5L)DRILLING&CUTT.EMULSION WS

Suitable spout:

- 5 l: 6000 0023

Thread-Cutting Oil DVGW

- DVGW approved
- Mineral oil-free, for potable water pipes
- Compatible with all commercially available thread-cutting machinery, even at high cutting speeds
- Also suitable as a spray oil for drilling, tapping, turning, milling, etc.
- Colour: red

Article No.	Article Description
6580 5851	THREAD-CUT.FLUID DVGW 300ML
6580 5855	THR.CUT.FLUID-M. WAT.SAFE 5L

Suitable spout: • 5 l: 6000 0023



6580 5851

6580 5855

Grinding oil spray

- Increases the service life and reduces clogging of the abrasive material
- The grinding oil spray can be sprayed directly onto the abrasive material or the workpiece
- Optimum use with non-ferrous metals
- Free of chlorine, sulphur and mineral oils
- Ideally suited to the grinding of substrates of aluminium, copper, steel and stainless steel with lamellar discs, abrasive belts, etc.



Article No.	Article Description
6580 5808	GRINDING OIL SPRAY 400ML

Bio-Saw Chain Oil

- Eco-friendly high-performance saw chain oil for lubrication of chain saws of all brands, awarded the **European Eco-Label** and tested according to OECD 201/202/203
- Base: vegetable raw material with polymer thickener
- With super adhesive additive
- Ideal heavy lubrication in summer and winter, even when sawing hardwood
- Excellent wear protection
- With longterm gumming protection
- Excellent corrosion protection characteristics
- Bright colour, no unesthetic stains with visible saw-cuts, e.g. when sawing beams for timber construction
- Canister with integrated auxiliary spout



Article No.	Article Description
6580 5896	CA(5L)BIO-SAW CHAIN OIL

Chainsaw Oil

- Partly synthetic, mineral oil based, biodegradable chainsaw oil
- Optimum lubrication in summer and winter, also when sawing hard wood
- No gumming
- Wear protection
- Excellent adhesion
- Low consumption
- Environmentally-friendly as per OECD 301 C, up to 80% biodegradable within 28 days
- Bright colour, no stains e.g. when sawing beams in wooden structures
- Container with integrated pouring aid



Article No.	Article Description
6580 5895	C(5L)CHAINSAW OIL PARTLY-SYNT.

Welding Anti-Spatter

- Protection of weld beads and workpieces and prevents sticking of welding particles
- Basis: oil components in aqueous emulsion
- Corrosion-protection
- Suitable for all welding processes
- Silicone-free

Article No.	Article Description
6730 0900	WELDING ANTI-SPATTER 400ML
6730 0901	WELDING ANTI-SPATTER 5L

Suitable spout:

- 5 l: Art.-No. 6000 0023



Anti-Stick Spray for Spray Gun

- Prevents adhesion of welding beads to the welding nozzle and the workpiece
- Oil-based
- For gas-shielded arc welding, autogenous and electric welding
- Silicone-free

Application:

- Clean workpieces of any eventual residues - spray thinly
- Do not spray into cavities -start welding operation only after adequate ventilation
- Using in enclosed spaces (e.g. tanks) prohibited
- Do not place can in the area of emitted sparks
- In case of post-treatment of the workpieces, it is recommended to do a previous test and cleaning

Article No.	Article Description
6730 0915	ANTI-STICK SPRAY GUN 400ML



Welding Protection Paste „Perl-Stop“

- Silicone-free welding protection paste
- Prevents weld spatter and sparks eroding the burner nozzle during gas-shielded welding
- A paste-like protective film is created when a warm gas nozzle or flow nozzle is dipped into the paste which prevents erosion or burning of the nozzle
- Guarantees a uniform wire feed rate and an eddy-free gas flow as well as fast cooling of the entire burner head
- Extends the service life of the welding nozzles
- To prevent nozzle blockages store the welding torch hanging face down after treatment and use

Article No.	Article Description
6730 0902	C(300G)WELDING PROTEC. PASTE



Skin Cleaning

Derma Plus - Hand Cleaning Lotion

- Soft hand-cleaning cream with skin caring additives
- Free of silicone and alkaline
- Without abrasives for protective skin care
- Economical consumption with dispensing system

Art.-No. 6180 9030:

- Antiseptic refilling guaranteed due to refilling package in the plastic bag

Article No.	Article Description
6180 9053	BT(500ML)DP HAND WASH.LOTION
6180 9030	DP HAND CLEANING LOTION 800ML
6180 9051	BT(1L)DP HAND WASH.LOTION
6180 9028	BT(2L)DP HAND WASH.LOTION
6180 9035	DP HAND CLEANING LOTION 5L

Suitable dispenser for Art.-No. 6180 9030:

- Art.-No. 6180 9031: Wall dispenser for 800ml container

Suitable dispenser for Art.-No. 6180 9035:

- Art.-No. 6180 9080: Dispenser Push plastic white for 1 l container
- Art.-No. 6180 9081: Dispenser Push plastic black for 1 l container
- Art.-No. 6180 9082: Dispenser Push stainless steel for 1 l container
- Art.-No. 6180 9080 1: Dispenser Easy plastic white for 1 l container
- Art.-No. 6180 9081 1: Dispenser Easy plastic black for 1 l container
- Art.-No. 6180 9082 1: Dispenser Easy stainless steel 1 l container

Suitable dispenser for Art.-No. 6180 9028:

- Art.-No. 6180 9096: Dispenser Force plastic for 1 - 2 l container
- Art.-No. 6180 9095: Dispenser Force metal for 1 - 2 l container

Suitable dispenser for Art.-No. 6180 9035:

- Art.-No. 6180 9036 1: Pump dispenser for 5 l container



Derma Plus Dispenser System - Hand Cleaning Lotion

Article No.	Article Description
6180 903	DP DISPEN.SYST.HANDWASH.LOTION

Contents Art.-No. 6180 903:

- 1x Art.-No. 6180 9031: Dispenser Derma Plus - hand-washing lotion
- 2x Art.-No. 6180 9030: Derma Plus - Hand-washing lotion 800 ml



Foam Soap Derma Plus

Article No.	Article Description
6180 9054	BT(250ML)DP FOAM SOAP
6180 9052	BT(1L) DP FOAM SOAP

Suitable dispenser for Art.-No. 6180 9052:

- Art.-No. 6180 9080: Dispenser Push plastic white for 1 l container
- Art.-No. 6180 9081: Dispenser Push plastic black for 1 l container
- Art.-No. 6180 9082: Dispenser Push stainless steel for 1 l container
- Art.-No. 6180 9080 1: Dispenser Easy plastic white for 1 l container
- Art.-No. 6180 9081 1: Dispenser Easy plastic black for 1 l container
- Art.-No. 6180 9082 1: Dispenser Easy stainless steel for 1 l container



Skin Cleaning

Derma Plus Hand Cleaner

- Non-alkaline, solvent-free
- pH-value 7 (neutral)
- Thoroughly cleans hands and protects from oil, grease and other contaminants
- Clinically tested
- Prevents skin irritations
- Environmentally-friendly, biodegradable

Article No.	Article Description
6180 9004	DERMA PLUS HAND CLEANER 350ML
6180 9013	BT(1L) DP HAND WASH.CREAM
6180 9012	BT(2L) DP HAND WASH.CREAM
6180 9000	DERMA PLUS HAND CLEANER 3KG
6180 9002	DERMA PLUS HAND CLEANER 9KG

Suitable dispenser for Art.-No. 6180 9013:

- Art.-No. 6180 9080: Dispenser Push plastic white for 1 l container
- Art.-No. 6180 9081: Dispenser Push plastic black for 1 l container
- Art.-No. 6180 9082: Dispenser Push stainless steel for 1 l container
- Art.-No. 6180 9080 1: Dispenser Easy Plastic white for 1 l container
- Art.-No. 6180 9081 1: Dispenser Easy Plastic black for 1 l container
- Art.-No. 6180 9082 1: Dispenser Easy stainless steel for 1 l container

Suitable dispenser for Art.-No. 6180 9012:

- Art.-No. 6180 9096: Dispenser Force plastic for 1 - 2 l container
- Art.-No. 6180 9095: Dispenser Force metal for 1 - 2 l container

Suitable dispenser / wall holder for Art.-No. 6180 9000:

- Art.-No. 6180 9006: Pump-dispenser for 3 kg container
- Art.-No. 6180 9005: Wall holder and pump-dispenser for 3 kg container

Suitable dispenser for Art.-No. 6180 9002:

- Art.-No. 6180 9003: Pump-dispenser for 9 kg container



Derma Plus Clean Foam

- Application without water
- No drying up
- Protective and thorough cleaning of stubborn dirt, oil, grease, paint and ink etc.
- Ideal for mobile use e.g. breakdown services, construction sites etc.
- Ideally suited for workshops

Article No.	Article Description
6180 9040	DP DRY CLEAN FOAM 150ML



Skin Cleaning

Derma Top Hand Cleaner

- Hand cleaner for strong dirt contamination
- Dispense on dry skin and continue washing with little water
- With plastic beads
- pH-value: 6 (adapted to the natural acid mantle)
- Prevents skin irritations through moisturizing substances



6180 9043

6180 9042

6180 9041



6180 9039

6180 9032

Technical Data

Colour: beige
Viscosity: pasty

Article No.	Article Description
6180 9043	DERMA TOP HAND CLEANER 200ML
6180 9042	BT(1L)DERMA TOP HAND CLEANER
6180 9041	DERMA TOP HAND CLEANER 2L
6180 9039	DERMA TOP HAND CLEANER 3L
6180 9032	DERMA TOP HAND CLEANER 10L

Suitable dispenser for Art.-No. 6180 9042:

- Art.-No. 6180 9080: Dispenser Push plastic white for 1 l container
- Art.-No. 6180 9081: Dispenser Push plastic black for 1 l container
- Art.-No. 6180 9082: Dispenser Push stainless steel for 1 l container
- Art.-No. 6180 9080 1: Dispenser Easy plastic white for 1 l container
- Art.-No. 6180 9081 1: Dispenser Easy plastic black for 1 l container
- Art.-No. 6180 9082 1: Dispenser Easy stainless steel for 1 l container

Suitable dispenser for Art.-No. 6180 9041:

- Art.-No. 6180 9096: Dispenser Force plastic for 1 - 2 l container
- Art.-No. 6180 9095: Dispenser Force metal for 1 - 2 l container

Suitable dispenser / wall holder for Art.-No. 6180 9039:

- Art.-No. 6180 9006: Pump-dispenser for 3 l container
- Art.-No. 6180 9005: Wall holder and pump-dispenser for 3 l container

Suitable dispenser for Art.-No. 6180 9032:

- Art.-No. 6180 9033: Pump-dispenser for 10 l container

Your Advantage / Benefit

- Absence of soap or solvents
- Free from silicone and PTFE
- Dermatologically tested
- Good skin compatibility
- High cleaning performance
- No blockage of drains and pipes

Application

- Firstly do not wet your hands with water
- Apply the pasty hand cleaner to your dirty hands
- Then apply a Little water when the dirt had already been solved by the pasty hand cleaner
- Then rinse thoroughly and dry hands



Skin Cleaning

Hand Wash - Clean and Care

- Non-soap hand wash with a wood pulp base
- Gently removes heavy dirt oil, grime and grease
- Effective cleaning due to cubic wood particles
- Long-lasting skin protection and moisturising effect with Aloe Vera
- Increased foam formation due to washing-active tensides
- Skin neutral, maintains the natural acid contents of the skin and acts de-greasing
- Does not clog drainage and pipes
- Dermatologically tested
- pH-value: 6.5
- Citrus fragrance

Article No.	Article Description
6180 9034	BUCK.(10L)HAND WASH CLEAN&CARE



Derma Plus Hand Cleaner „Citrus“

- Sand-free, hand cleaning paste with skin protection formula
- Removes stubborn dirt e.g. grease and oil etc.
- Keeps the acidic protective coating of the skin
- Economical in use
- Does not clog drains or waste pipes

Article No.	Article Description
6180 9011	DP HAND CLEANER CITRUS 1000ML
6180 9008	BUC(10L)DP HAND CLEANER CITRUS



6180 9011



6180 9008

Skin Cleaning

Derma Plus moist cleaning cloths

- Removes paint, adhesive, grease, oil, lubricants, tar, ink, resin, wax, graphite etc. pore-deep, easily and quickly.
- Can be used on skin, textiles, many plastics, rubber, metal, stoving paints, ceramics etc.



Your Advantage / Benefit

- Practical dosing can
- Non toxic
- Can be used without water, soap and brush
- Contents: 70 moist cleaning cloths, 20 x 30 cm
- With care minerals from the Dead Sea, vitamin E and Aloe Vera

Application

Article No.	Article Description
6130 9105	C(70)DP MOIST CLEAN.TISS.20X30

Related Products

- **Derma Plus Barrier Hand Foam**
Art.-No. 6180 90 50



- **Skin Care Cream Bee**
Art.-No. 6180 9062



Skin Cleaning

Derma Craft hand cleaner

- Derma Craft is a creamy hand cleaner specially designed for the removal of paint, adhesives, resins, lacquers, grease, oils, etc.
- For workshops, body shops, painting companies, print shops etc.



Article No.	Article Description
6180 9070	TB(350ML)DERMA CRAFT HAND CL.
6180 9071	BT(1L)DERMA CRAFT HAND CLEANER
6180 9072	BT(2L)DERMA CRAFT HAND CLEANER
6180 9073	CAN(3L)DERMA CRAFT HAND CLEAN.
6180 9074	BU(10L)DERMA CRAFT HAND CLEAN.

Suitable dispenser for Art.-No. 6180 9071:

- Art.-No. 6180 9080: White plastic push dispenser for 1 l packaging
- Art.-No. 6180 9081: Black plastic push dispenser for 1 l packaging
- Art.-No. 6180 9082: Stainless steel push dispenser for 1 l packaging
- Art.-No. 6180 9080 1: White plastic easy dispenser for 1 l packaging
- Art.-No. 6180 9081 1: Black plastic easy dispenser for 1 l packaging
- Art.-No. 6180 9082 1: Stainless steel easy dispenser for 1 l packaging

Suitable dispenser for Art.-No. 6180 9072:

- Art.-No. 6180 9096: Plastic Force dispenser for 1 - 2 l packaging
- Art.-No. 6180 9095: Force metal dispenser for 1 - 2 l packaging

Suitable dispenser/wall mount for Art.-No. 6180 9073:

- Art.-No. 6180 9006: Pump dispenser for 3 l packaging
- Art.-No. 6180 9026: Wall mount (3-part)
- Art.-No. 6180 9005: Wall mount including pump for 3 l packaging

Suitable dispenser for Art.-No. 6180 9074:

- Art.-No. 6180 9003: Pump dispenser for 10 l packaging

Your Advantage / Benefit

- Free from alkalis, solvents and silicone
- Pleasant apple fragrance
- Highest cleansing strength is achieved using special esters and a very skin-friendly vegetable oil

Application

- In contract to other skin cleaners can be applied both to dry and slightly moist hands
- Rub a small amount onto your hands without water and wash, rinse well and dry
- Repeat cleaning process in case of heavy contamination



Skin Cleaning

Derma Craft moist cleaning cloths

- Practical resealable bucket dispenser
- Removes any dirt adhering to hands or surfaces quickly and thoroughly
- With vitamin E and aloe vera
- Low linting, wipe-resistant and skin-friendly
- Easy to transport and perfect for mobile use, e.g. installation
- Can be used on skin, metal, plastics, ceramics and other soiled surfaces
- Effective against all usual industrial contaminants, such as grease, paint, adhesives or resin
- Polycarbonate / Perspex can become blunt, a impact assessment on the material is recommended
- Contents: 72 cloths

Article No.	Article Description
6130 9104	BU(72)DERMA-CRAFT MOI.CL.CLOTH



Derma Top Super Clean

- Special hand cleaner against paints, resin, adhesives, colours, bitumen, PU foams
- Clinically tested
- Cleaning lotion with polybead rubbing bodies
- Protective cleaning effect due to ester oil
- Re-greasing
- pH balanced formula

Application:

- Pre-clean hands with Dermo Top Super Clean, then wet hands with lukewarm water and massage a bead
- Rinse thoroughly under flowing water and dry hands carefully

Article No.	Article Description
6180 9038	DERMA TOP SUPER CLEAN 250ML



Skin Care

Derma Plus Skin Care Cream

- Protects and cares the skin due to natural skin protection
- Avoids drying and embrittlement of the skin
- Contains anti-inflammatory substances
- Non-sticky and non-greasy after application

Article No.	Article Description
6180 9023	DP SKIN CARE CREAM 200ML
6180 9024	DP SKIN CARE CREAM 350ML
6180 9020	DP SKIN CARE CREAM 1KG
6180 9022	DP SKIN CARE CREAM WS 1L
6180 9027	SKIN CARE CREAM WR 1L

Suitable dispenser / wall holder for Art.-No. 6180 9020:

- Art.-No. 6180 9018: Pump-dispenser for 1 kg container
- Art.-No. 6180 9017: Wall holder for 1 kg container

Suitable dispenser for Art.-No. 6180 9022:

- Art.-No. 6180 9096: Dispenser Force plastic for 1 - 2 l container
- Art.-No. 6180 9095: Dispenser Force metal for 1 - 2 l container

Suitable dispenser for Art.-No. 6180 9027:

- Art.-No. 6180 9080: Dispenser Push plastic white for 1 l container
- Art.-No. 6180 9081: Dispenser Push plastic black for 1 l container
- Art.-No. 6180 9082: Dispenser Push stainless steel for 1 l container
- Art.-No. 6180 9080 1: Dispenser Easy plastic white for 1 l container
- Art.-No. 6180 9081 1: Dispenser Easy plastic black for 1 l container
- Art.-No. 6180 9082 1: Dispenser Easy stainless steel for 1 l container



6180 9023

6180 9024

6180 9020



6180 9022



6180 9027

Skin Care Cream Bee

- Special skin protection and care cream with natural beeswax
- Minimal coat of grease and rapid absorption
- Strengthens the defensive properties of the skin
- Prevents skin damage by external loads and has a normalising effect on irritated skin areas
- Smooth skin thanks to special care substances
- Silicone-free and unscented
- A small quantity of cream that is evenly and carefully distributed is enough

Article No.	Article Description
6180 9062	SKIN CARE CREAM BEE 200ML
6180 9061	SKIN CARE CREAM BEE WS 1L

Suitable dispenser for Art.-No. 6180 9061:

- Art.-No. 6180 9096: Dispenser Force plastic for 1 – 2 l container
- Art.-No. 6180 9095: Dispenser Force metal for 1 – 2 l container



6180 9062



6180 9061

Derma Plus - Shower Gel

- Soft shower gel
- Fragranced and pH compatibility with human skin
- For hair and body
- Re-greasing

Article No.	Article Description
6180 9060	BO(250ML)DERMA PLUS SHOWER GEL



Hand gel

- Alcohol-based hand cleaner that removes and neutralizes unhygienic contaminations
- Draw the required quantity, distribute in on your hands and rub until the hands are dry
- Do not wash hands afterwards

Article No.	Article Description
6180 9067	BT(125ML) HAND GEL
6180 9068	BT(1L) HAND GEL

Suitable dispenser for Art.-No. 6180 9068:

- Art.-No. 6180 9080: Dispenser Push plastic white for 1 l container
- Art.-No. 6180 9081: Dispenser Push plastic black for 1 l container
- Art.-No. 6180 9082: Dispenser Push stainless steel for 1 l container
- Art.-No. 6180 9080 1: Dispenser Easy plastic white for 1 l container
- Art.-No. 6180 9081 1: Dispenser Easy plastic black for 1 l container
- Art.-No. 6180 9082 1: Dispenser Easy stainless steel for 1 l container



6180 9067



6180 9068

Derma Plus Foot Cream

- Supports the build-up of the natural protective film of the skin
- Silicone-free
- Contains moisturising and anti-inflammatory active ingredients
- pH-neutral
- With fresh eucalyptus fragrance

Article No.	Article Description
6180 9063	DERMA PLUS FOOT CREAM 200ML



Derma Plus - Hand Cleaner and Skin Care Set

- Derma Plus - Hand Cleaning Cream 3kg, Derma Plus - Hand Protection 1kg, Derma Plus - Skin Care Cream 1kg, Wall holder with pump dispenser

Article No.	Article Description
6180 9025	DP-HAND CLEAN.CARE SET 1/3/1

Contents:

- Art.-No. 6180 9010: Derma Plus hand protection cream 1 kg can
- Art.-No. 6180 9000: Derma Plus hand-washing cream 3 kg can
- Art.-No. 6180 9020: Derma Plus skin care cream 1 kg can
- Art.-No. 6180 9026: Wall holder care-set 1-3-1



Werkstatt Pumpspendersystem



6180 9017



6180 9026



6180 9005



6180 9018



6180 9006



6180 9036 1



6180 9003



6180 9033

Article No.	Article Description
6180 9017	WALL HOLDER FOR 1KG
6180 9026	WALL HOLDER CARE-SET 1-3-1
6180 9005	WALL HOLDER+DISPENSER FOR 3KG
6180 9018	DP-DISPENSER FOR 1KG
6180 9006	DP-DISPENSER FOR 3KG
6180 9036 1	PUMP DISPENSER 5L HW-LOTION
6180 9003	PUMP DISPENSER 9KG
6180 9033	DP-DISPENSER FOR 10L CONTAINER

Handymax Profi - Hand Operated Cartridge/Bag Gun

- Professional design
- **With power transmission**
- Ergonomically-shaped handle
- With ball bearing mounted pressure rod

Art.-No. 6010 0005:

- 1:14 for highly viscose (difficult to press out) sealing-adhesive compounds

Art.-No. 6010 0006, 6015 0019 and 6015 0021:

- 1:10 for normal viscose (easy to press out) sealing-adhesive compounds

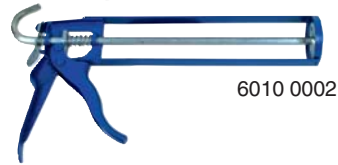
Article No.	Article Description
6010 0005	HANDYMAX 1:14 VS 2.9MM K 310ML
6010 0006	HANDYMAX 1:10 VS 4.0MM K 310ML
6015 0019	HANDYMAX 1:10 VS4.0MM F.B600ML
6015 0021	HANDYMAX 1:10 VS4.0MM F.B400ML
6800 0012	DUO-PRESS-GUN HANDYMAX



Hand Operated Cartridge Gun

- For 310 ml cartridges

Article No.	Article Description
6010 0001	HAND-PRESSURE GUN F.CART.310ML
6010 0002	HAND-PRE.GUN SKEL.F.CART.310ML
6010 0009	HAND-PRE.GUN BLA. F.CART.310ML



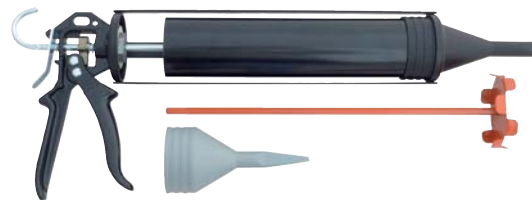
Mortar Cartridge

- 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:

- 1x filling tube with a volume of approx. 1 liter, 2 nozzles, 1x mixer



Spare Parts for Mortar Press

Article No.	Article Description
6010 1000 1	FILLING PIPE
6010 1000 21	NARROW NIB (OPENING 3X2MM)
6010 1000 22	BROAD NIB (OPENING 13X7MM)
6010 1000 3	RUBBER SEALANT



6010 1000 1



6010 1000 2 2



6010 1000 2 1



6010 1000 3

Cartridge / tubular bag caulk presses **FÖRCH*******

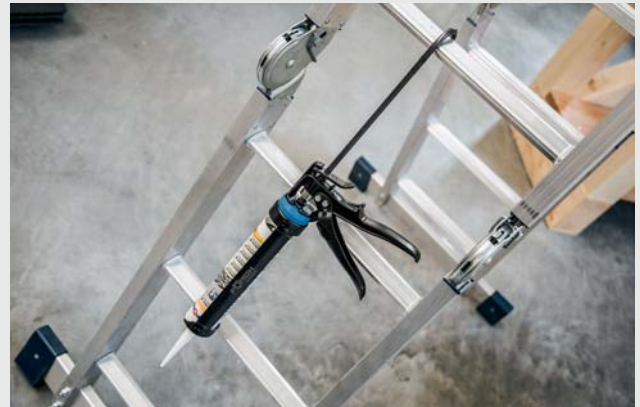
- Transmission ratio 17:1
- Integrated ladder hook
- Art.-No. 6011 310: for cartridges up to 310 ml
- Art.-No. 6011 400: for cartridges up to 310 ml and tubular bags up to 400 ml
- Art.-No. 6011 600: for cartridges up to 310 ml and tubular bags up to 600 ml

Your Advantage / Benefit

- Smooth and easy operation thanks to two plain bearings
- Specially hardened pusher block and push-rod
- Corrosion-inhibiting special black coating
- Rubberised handle and pull handle
- Rotating cup / aluminium pipe
- Increased compression strength of the feed mechanism

Application

- For high-viscosity adhesives and sealants



Article No.	Article Description
6011 310	CARTRIDGE PRESS 310ML 5*
6011 400	TUBULAR BAG PRESS 400ML 5*
6011 600	TUBULAR BAG PRESS 600ML 5*

Easy-Akku-Press

- Cartridge press as add-on to battery-powered drill
- Pressing force 300 kg
- for all conventional battery-powered drills with a slot-in battery
- simple handling
- compact and lightweight
- low-effort, even pressing
- suitable for 310 ml cartridges 50 mm diameter (plastic and aluminium)
- for sealants, adhesives and injection mortar



Article No.	Article Description
6012 310	EASY-AKKU-PRESS K310

Multifunction Cartridge Pistol

- Compressed-air device to manufacture seam sealings, surface coatings as well as adhesive beads out of 310 ml cartridges
- Integrated pressure reducer automatically decreases the power system pressure to an operating pressure of 7 bar
- Controller for quantity of sprayed air and the material, which acts independently from each other, provide a infinite adjustment according to the applications
- 2-step-trigger releases sprayed air in step 1, and material in step 2.
- Hermetic separation of material and air. The material cartridge remains fully ventilated preventing compressed air entering it.
- Suitable plug nipple: Art.-No. 3926 14 1



Scope of delivery Art.-No. 6010 6360:

- 1x Telescopic multifunction gun without plug nipples
- 10x multifunction nozzles
- 1x blue union nut for multifunction-Duo-nozzle set,
- 1x black union nut for cartridges with standard nozzles

Article No.	Article Description
6010 6360	MULTIFUNCTION CARTRIDGE PISTOL

Single Components

Article No.	Article Description
6010 6365	MULTIFUNCTION NOZZLE
6010 6366	MFG-DUO-NOZZLE CAP NUT
6010 6367	MFG-CARTRIDGE CAP NUT
6010 6368	MFG-O-RING SEALING F.CAP NUT
6010 6369	MFG-O-RING SEALING F.AIR CON.



Pneumatic Structure / Seam Sealing Gun

- Compressed air gun for processing sprayable seam sealer from bold plastic cartridges 300-320 ml
- Various patterns can be sprayed easily through adjustable nozzle cap, regulation of amount of material and controllable air mixes
- **Attention:** Always keep a cartridge in the gun, otherwise the material will harden inside the gun due to air and humidity.
- Suitable plug nipple: Art.-No. 3926 141



Content Art.-No. 6010 6380:

- 1x pistol, 10x round nozzles, 8x flat nozzles with guide, 2x flat nozzles without guide, 1x O-ring 4x15mm

Content Art.-No. 6010 6381:

- 10x round nozzles, 10x flat nozzles with guide, 10x O-ring 4x15mm

Technical Data	
Gun body:	Aluminium-moulded part Finger protection on the handle
Surface:	Powder-coated
Cartridge acceptance:	Round thread steel tube sleeve
Filling quantity/ Contents:	300 - 320 ml
Valve:	Brass/Stainless steel
Sealings:	Oil and petrol resistant
Atomization nozzle:	Brass with nozzle tip
Operating method:	Through over-pressure
Compressed air connection:	Inside thread 1/4"
Weight:	1050 g
Working pressure:	2 - 6 bar

Article No.	Article Description
6010 6380	MSD-CA-GUN F.PLAS.CART.310ML
6010 6381	NOZZLE SET F.MSD-CA-GUN

Cartridge Air Gun

- Closed and stable hand gun
- For cartridges up to max. 310 ml
- Without feed piston
- Working pressure continuously adjustable via turnable knob up to max. 6.8 bar
- Fitting socket nipple: Art.-No. 3927 14 1

Article No.	Article Description
6010 0101	CARTRIDGE AIR GUN FOR C.310ML



Pneumatic Pistol Cartridge / Bag Gun

- With telescopic pistol
- Continuously adjustable working pressure via a variable valve

Article No.	Article Description
6010 0004	GUN F.310ML C./300ML BAG

Scope of delivery:

- Pneumatic pistol cartridge gun with plug nipple



Compressed-Air Pistol Gun

- For sealing compounds in bags
- Continuously adjustable working pressure via a variable valve
- Max. compression force: 1.5 kN

Article No.	Article Description
6015 8110	COMPRESSED AIR GUN FOR B400ML
6015 8112	PNEUM.PRESS. GUN C.550/600ML

Scope of delivery:

- 1x Pistol gun without plug nipple (Art.-No. 3927 14 1)



Replacement Nozzle and Pressure Plate

- Suitable for hand-pressure and pneumatic guns for bags

Art.-No. 6015 8114:

- Suitable for pistols Art.-No. 6015 8111, Art.-No. 6015 8112, Art.-No. 6010 0100, Art.-No. 6015 8108 and Art.-No. 6015 8109

Article No.	Article Description
6015 8113	REPLACEMENT NOZZLE
6015 8114	REPLACEMENT PRESS. PLATE



Compressed Air Grease Gun Set w.View.Window

- Professional grease gun set for use with cars, commercial vehicles and agricultural vehicles
- **Dual loading possible**
 - Loose weight grease
 - Cartridge 400 ml



5354 3020



5354 3010

Your Advantage / Benefit

- With viewing window to check fill level at all times
- Patented air cushion discharge valve for reliable supply of grease
- Handle can be rotated by 360° for difficult to reach grease nipples
- 40 cm long flexible pressure hose with nozzle
- 16 cm long rigid tube with nozzle
- Optimum drainage of residues from the cartridge thanks to guided well-sealed ram

Application

- For quick and easy lubrication or greasing of all areas on machinery and vehicles fitted with a conical grease nipple



Article No.	Article Description	QTY
5354 3020	CA GR.G.S. WITH V.WIND400ML	1
5354 3010	CA.GR.G.S. WITH V.WIND400ML	1

Scope of delivery:

Art.-No. 5354 3020:

- Pneumatic grease gun, tube with nozzle, flexible pressure hose

Art.-No 5354 3010:

- Pneumatic grease gun, tube with nozzle, plug-in nozzle

Technical Data

Compression:	400 bar (40:1)
Delivery:	3.5 ml per second
Quantity per pack:	400 g
Operating pressure:	max. 8.0 bar
Air consumption:	230 l/min
Weight:	1.8 kg excl.material
Recomm.hose Ø:	8 mm
Air connection:	1/4"
Suitable plug nipple	Art.-No. 3926 14 1

Related Products

■ Bent Tube / High-Pressure Hose

Art.-No. 2909 11



Art.-No. 2909 21



■ Nozzle

Art.-No. 2909 12



■ Multipurpose Grease with Graphite S491

Art.-No. 6550 5785



■ Commercial Vehicle High-Performance Grease Bucket

Art.-No. 6550 5771



Battery Grease Press Set for System Cartridges

Lube-Shuttle® System-Grease Press

- High performance electric DC-motor with planetary gear and crankshaft operation
- A working pressure of max. 400 bar, controlled by a pressure-relief valve
- High pressure safety hose 13 x 750 mm with 4-jaw hydraulic gripper mouthpiece
- Ideal for greases NLGI-class 000 to 2



Technical Data

Battery Grease Press

Operating voltage:	14.4 V
Working pressure:	max. 400 bar
Output:	approx. 100 ccm/min
Connecting thread:	R1/8"
Rechargeable battery	
Nominal voltages:	14,4 V
Capacity:	Li-Ion 3.000 mAh
Charger	
Primary voltage:	230 V, 50 Hz, 35 W
Secondary voltage:	14.5 V, 1,500 mA
Charging time:	1.5 hrs.

Article No.	Article Description
2909 100	BATT.GREASE GUN KIT LS-SYSTEM
2909 100 1	HI-PRESS.HOSE WO.MP 13X750R1/8
2909 100 2	REPLAC.BATT.GREASE PRESS LS-SY
2909 100 3	CHARGER BATT.GREAS.PRESS LS-SY
2909 25 2	4-JAW HYD. MOUTHPIECE R1/8
2909 25 3	NOZ.PIPE BN.W4-JAW HYD.MP R1/8

Delivery scope:

- 1x Battery grease press
- 1x High-pressure hose 13 x 750 mm
- 1x 4-jaw hydraulic gripper mouthpiece
- 1x Li-Ion battery 3,000 mAh
- 1x Charger

Your Advantage / Benefit

- Clean loading and unloading of the grease cartridge
- No venting required
- Continuous fat feeding
- Extra-long high-pressure safety hose
- Cartridges can be completely emptied
- Refillable cartridges

Application

- For mobile greasing of all lubrication points at machinery and vehicles that are equipped with grease nipples



Related Products

- **Comm. Vehicle High Perf. Lubric. Grease Bucket**
Art.-No. 6550 5771



- **Comm.Vehicle High Perf.Grease S495 TRUCKline**
Art.-No. 6550 5770



- **Filling Device for System Cartridges**
Art.-No. 2909 85



- **Filling Adapter for System Cartridges**
Art.-No. 2909 85 1



Hand Lever Grease Press for System Cartridges

Lube-Shuttle® System-Grease Press

- High quality construction with zinc-plated press tube and ergonomically formed handle
- High pressure hose 9 x 300 mm with 4-jaw hydraulic mouthpiece
- Ideal for greases NLGI-class 2
- Tested by TÜV, DLG and BLT



Technical Data

Working pressure: 400 - 800 bar
Output / stroke: up to 1.5 ccm
Connecting thread: R1/8"

Article No.	Article Description
2909 25	HANDLEVER GREASE PRESS LS-SYST
2909 25 1	HI-PRESS.HOSE WO.MP 9X300 R1/8
2909 25 2	4-JAW HYD. MOUTHPIECE R1/8
2909 25 3	NOZ.PIPE BN.W4-JAW HYD.MP R1/8

Your Advantage / Benefit

- Clean loading and unloading of the grease cartridge
- No venting required
- Cartridges can be completely emptied
- Refillable cartridges

Application

- For mobile greasing of all lubrication points at machinery or vehicles equipped with grease nipples



Related Products

- **Comm. Vehicle High Perf. Lubric. Grease Bucket**
Art.-No. 6550 5771



- **Comm.Vehicle High Perf.Grease S495 TRUCKline**
Art.-No. 6550 5770



- **Filling Device for System Cartridges**
Art.-No. 2909 85



- **Filling Adapter for System Cartridges**
Art.-No. 2909 85 1

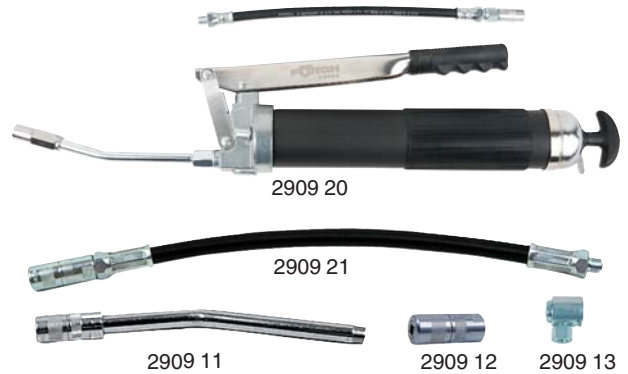


Hand Lever Grease Guns for Cartridges and loose Grease Fillings

Hand Lever Grease Gun **FÖRCH*******

- High-quality industrial design
- With flexible armoured hose 11 × 300 mm with angled nozzle tube
- Grease mouthpiece with 4 jaws for safe and sealed fit
- Connector with 4 pads for a safe and tight connection to the nipple head

Article No.	Article Description
2909 20	HAND-LEVER PRESS IND-QUAL 5*
2909 11	ANGLED NOZZLE TUBE 4PADS CNCTR
2909 21	HIGH PRESS.TUBE4P-CNCTR.11X300
2909 12	CONNECTOR 10X1 050830
2909 13	SLIDING COUPLING ALU F.M1 10X1



Hand Lever Grease Gun - Standard

- With angled nozzle tube
- 4-jaws connector
- Suitable for loose grease or cartridges of 400 g

Article No.	Article Description
2909 1	HAND LEVER GREASE GUN
2909 10	HIGH PRESS.TUBE 4P.CNCTR.8X300



Single-Hand Grease Gun

- Accessories Art.-No. 2909 10, 2909 21, 2909 11, 2909 12 and 2909 13 suitable for all ALL grease guns

Article No.	Article Description
2909 30	SINGLE-HAND GREASE GUN-SET



G-coupler, lockable

- Enables safe and easy lubrication during maintenance work
- No loss of grease, even during heavy operation – simply connect, release and work hands-free
- Leak-free seal up to 690 bar (10,000 psi) – even at extreme angles
- Suitable for all conventional conical grease nipples conforming to DIN and SAE specifications
- Connects to all conventional grease guns: manually operated, pneumatic and electric (battery-operated)
- Four hardened jaws, extremely low-wear
- With high-performance seal for a longer lifespan
- Non-return valve for extreme tightness with no leaks
- Easy to release by operating the lever



Article No.	Article Description
2909 136	G-COUPLER, LOCKABLE M10X1

Two-Hand Grease Gun

- Complete emptying due to vacuum method
- Suitable for 500 gram cartridges with thread
- With flexible pressure tube (length 30 cm) and connector
- Quick and clean change of cartridges
- Dimensions (L x W x H): 350 x 195 x 30 mm

Article No.	Article Description
2909 60	TWO-HAND GREASE GUN F.500G CART.

Delivery includes:

- Reinforced hose, M10 x 1a, 11 x 300 mm precision mouthpiece, 4 jaws, M10 x 1



Filling Device for System Cartridges

- Lube-Shuttle-System®
- Screw-on lid with 3 adjustable screws at the sides
- Clean and economical grease loading due to piston operated filling

Article No.	Article Description
2909 85	FILL.DEVICE F.SYST.CARTRIDGES



Filling Adapter for System Cartridges

- Lube-Shuttle-System®
- Simple reloading of empty cartridges
- Filling adapter for system cartridges with protective cap
- Suitable for filling device for System cartridges Art.-No. 2909 85

Article No.	Article Description
2909 85 1	FILLING ADAPTER F.SYST.CARTR.



Filling Devices for Centralized Lubrication System

- For easy and clean filling of containers at trucks, agricultural machines and in the industrial sector
- With handle for easy removal of the piston

Art.-No. 2909 70:

- Adjustable dust cap protects from dirt and enables a view to the filling quantity at any time
- Star-mounting system for the fixation of the grease feed pump at different container diameters

Art.-No. 2909 80:

- Dust cap protects from dirt, with integrated pump fixation and fixing screws for the mounting of the grease feed pump at the container
- Piston for conical plastic containers from 300 to 350 mm

Technical Data		
Pressure pump	Art.-No. 2909 70	Art.-No. 2909 80
Pumping medium:	Grease up to NLGI 2	Grease up to NLGI 2
Pressure pump / stroke:	30 cm ³	30 cm ³
Hose length:	1,500 mm	1,500 mm
Piston:	266 - 291 mm	300 - 350 mm
Length of suction pipe:	510 mm	680 mm
Connection:	Coupling Rectus, type 72	Coupling Rectus, type 72

Article No.	Article Description
2909 70	FILL.DEV.F.CENTR.LUBR.CON.15KG
2909 80	FILL.DEV.F.CENTR.LUBR.CON.25KG

