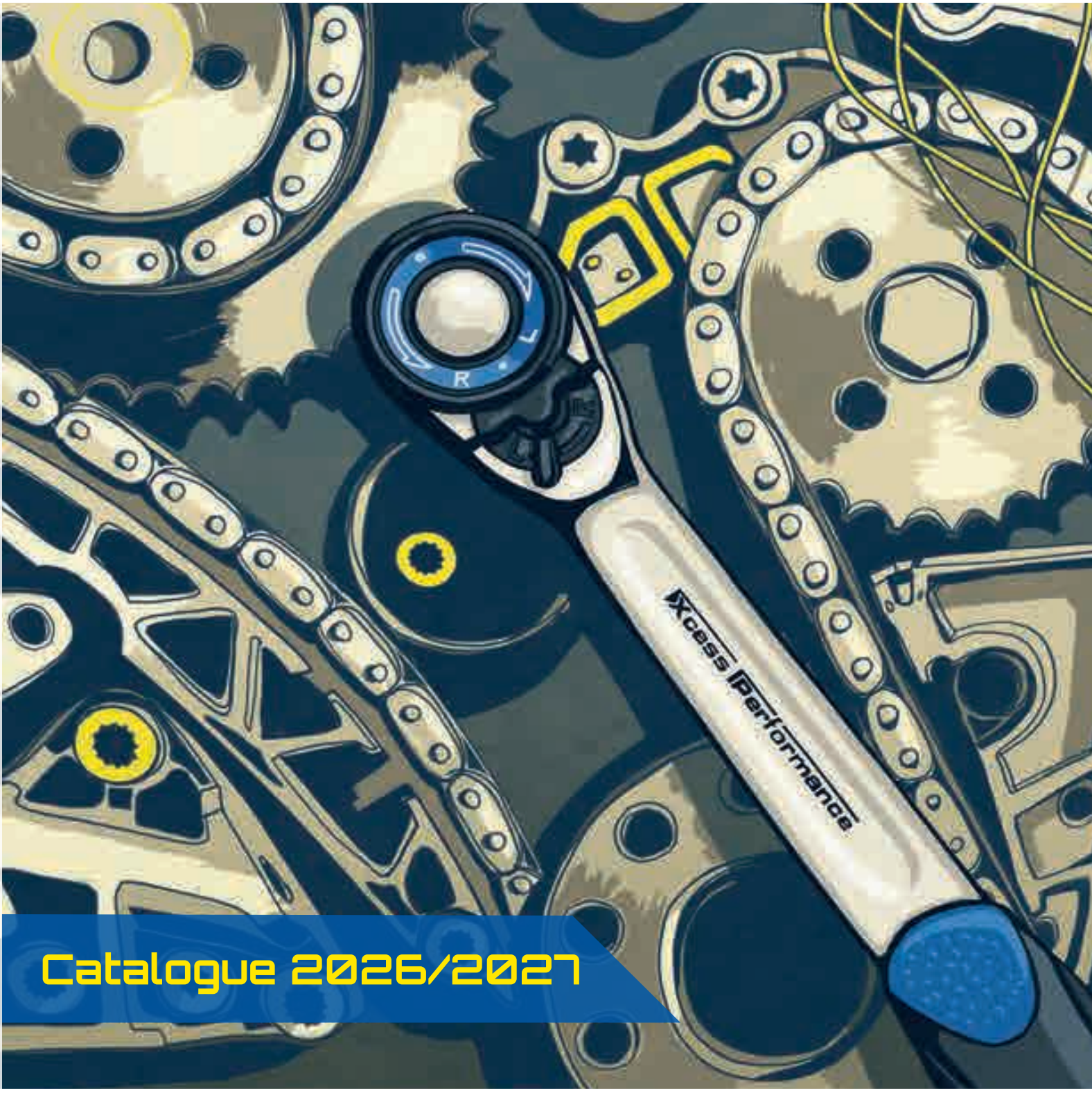
Condor werkzeug

Est. 1975 in Remscheid | Germany



Catalogue 2026/2027

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1 Tool Cabinets

Tool Cabinet Extra Wide, empty

- 7 drawers (7 flat, 1 large), incl. 8 non-slip drawer linings
- work top made from stainless steel, incl. can holders and small parts storage spaces
- loading capacity per drawer: 40 kg
- mutual drawer locking, avoids tilting risk
- drawers pullout 100%
- ball-bearing telescopic slides
- central locking with 2 keys
- both side panel recessed with square perforated hole pattern
- corner protection
- total loading capacity: 500 kg
- 2 swivel casters with brake (ø 125 mm), 2 fixed casters (ø 125 mm)
- inner dimensions flat drawer: 75 x 753 x 398 mm (h x w x d)
- inner dimensions large drawer: 150 x 753 x 398 mm (h x w x d)
- dimensions: 957 x 863 x 459 mm (h x b x t)
- weight (empty): 70 kg

Item	Art. No.
Tool Cabinet Extra Wide	7050

accessory

Item	Art. No.
Trash Bin, for tool cabinet	7931
Storage Tray, for tool cabinet	7932
Storage Box, accessory for tool cabinet	7933
Suspension Rail with 7 hooks, for tool cabinet	7934
Paper Roll Towel Holder, for tool cabinet	7935
Storage Box, magnetic	7940
Storage Tray Set, 3 pcs., magnetic	7943

Tool Cabinet, empty

- 7 drawers (7 flat, 1 large), incl. 8 non-slip drawer linings
- work top made from stainless steel, incl. can holders and small parts storage spaces
- loading capacity per drawer: 40 kg
- mutual drawer locking, avoids tilting risk
- drawers pullout 100%
- ball-bearing telescopic slides
- central locking with 2 keys
- both side panel recessed with square perforated hole pattern
- corner protection
- total loading capacity: 500 kg
- 2 swivel casters with brake (ø 125 mm), 2 fixed casters (ø 125 mm)
- inner dimensions flat drawer: 75 x 568 x 398 mm (h x w x d)
- inner dimensions large drawer: 150 x 568 x 398 mm (h x w x d)
- dimensions: 957 x 678 x 459 mm (h x b x t)
- weight (empty): 56 kg

Item	Art. No.
Tool Cabinet	7040

accessory

Item	Art. No.
Drawer Divider System, for small parts	7930
Trash Bin, for tool cabinet	7931
Storage Tray, for tool cabinet	7932
Storage Box, accessory for tool cabinet	7933
Suspension Rail with 7 hooks, for tool cabinet	7934
Paper Roll Towel Holder, for tool cabinet	7935
Storage Box, magnetic	7940
Storage Tray Set, 3 pcs., magnetic	7943

Tool Cabinet, empty

- 7 drawers (6 flat, 1 large), incl. 7 non-slip drawer linings
- work top with 10 mm rubber foam
- loading capacity per drawer: 25 kg
- drawers pullout 100%
- ball-bearing telescopic slides
- central locking with 2 keys
- both side panels with square perforated hole pattern
- both side panels recessed
- handle assembly on both sides possible
- total loading capacity: 300 kg
- 2 swivel casters with brake (ø 125 mm), 2 fixed casters (ø 125 mm)
- inner dimensions flat drawer: 75 x 570 x 400 mm (h x w x d)
- inner dimensions large drawer: 150 x 570 x 400 mm (h x w x d)
- dimensions: 935 x 682 x 460 mm (h x w x d)
- weight (empty): 47 kg

Item	Art. No.
Tool Cabinet	7029

accessory

Item	Art. No.
Drawer Divider System, for small parts	7930
Trash Bin, for tool cabinet	7931
Storage Tray, for tool cabinet	7932
Storage Box, accessory for tool cabinet	7933
Suspension Rail with 7 hooks, for tool cabinet	7934
Paper Roll Towel Holder, for tool cabinet	7935
Storage Box, magnetic	7940
Storage Tray Set, 3 pcs., magnetic	7943

Workshop Service Cart, 3 shelves, max load 150 kg

- solid construction, handle assembly on both sides possible
- 3 shelfes, middle shelf can be fitted in 15 positions
- shelfes fit for up to four of our 1/3 soft foam trays each
- 2 side panels with square perforated hole pattern 10 x 10 mm, hole spacing 38 mm
- additional side panels are available under item code 7088A-P
- loading capacity per shelf: 50 kg
- total loading capacity: 150 kg
- 4 swivel casters (ø 100 mm), 2 with brakes and locking device
- inner dimensions shelves: 770 x 415 x 35 mm (l x w x h)
- dimensions (without handle): 823 x 470 x 893 mm (h x w x d)
- weight (empty): 26 kg

Item	max. load	Length	Width	Height	Art. No.
Workshop Service Cart	150 kg	823 mm	470 mm	893 mm	7088A

Perforated Panels, 2 pcs., for No. 7088A

- side panels with square perforated hole pattern 10 x 10 mm, hole spacing: 38 mm
- additional panels for workshop service cart No. 7088A for closing the long side

Item	Quantity	Art. No.
Perforated Panels	2 pcs.	7088A-P

1

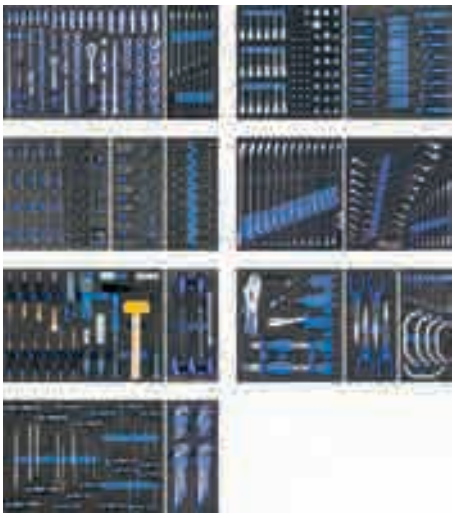
Tool Cabinet, loaded, 450 pcs.

- 7 drawers fully loaded with 450 tools

Item	pcs	Art. No.
Tool Cabinet No. 7050, loaded	450	7050-X06A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, xcess performance, 85 pcs., 1/4+3/8+1/2"	7104
Ratchet Spanner Set in Foam 1/3, xcess perf., reversible, 12 pcs., 8-19 mm	7360
Socket Bit Set in Foam 2/3, xcess performance, 89 pcs., 1/4+1/2"	7204
Pliers Set in Foam 2/3, xcess performance, 10 pcs.	7240
Screwdriver and Key Set in Foam 3/3, xcess performance, 74 pcs.	7251
Crimping Pliers in Foam 1/3, 7 pcs.	7227
Impact Socket Set in Foam 2/3, 41 pcs., 1/2"	7141
Drive Shaft Socket Set in Foam 1/3, 12 pcs., 1/2"	7148
TX-Star and Hex Impact Socket Set in Foam 1/3, 18 pcs., 1/2"	7150
Combination Spanner Set Nr. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Open End 2130-8T + Ring Spanners 2140-10T in Foam 2/3, 18 pcs.	7330
Hammer and Punch Set in Foam 3/3, xcess performance, 19 pcs.	7291
Workshop Files Set in Foam 1/3, 200 mm, 5 pcs.	7295
T-Handle Key Set in Foam 3/3, 18 pcs., hex + tx-star	7119
Combination Spanners No. 4410 + C-type 40-5 in Foam 1/3, 15 pcs.	7315



Tool Cabinet, loaded, 422 pcs.

- 7 drawers fully loaded with 422 tools

Item	pcs	Art. No.
Tool Cabinet No. 7050, loaded	422	7050-X03

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 85 pcs., 1/4+3/8+1/2"	7100
Ratchet Spanner Set in Foam 1/3, 14 pcs., 6-19 mm	7314
Socket Bit Set in Foam 2/3, 87 pcs., 1/4+1/2"	7200
Screwdriver Set in Foam 2/3, 15 pcs.	7260
Impact Socket Set in Foam 2/3, 41 pcs., 1/2"	7141
Drive Shaft Socket Set in Foam 1/3, 12 pcs., 1/2"	7148
TX-Star and Hex Impact Socket Set in Foam 1/3, 18 pcs., 1/2"	7150
Combination Spanner Set Nr. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Open End 2130-8T + Ring Spanners 2140-10T in Foam 2/3, 18 pcs.	7330
Hammer and Punch Set in Foam 3/3, xcess performance, 19 pcs.	7291
Workshop Files Set in Foam 1/3, 200 mm, 5 pcs.	7295
Pliers Set in Foam 2/3, 10 pcs.	7271
Pliers No. 1183 + 5730 in Foam 1/3, 4 pcs.	7274
Combination Spanners No. 4410 + C-type 40-5 in Foam 1/3, 15 pcs.	7315
T-Handle Key Set in Foam 3/3, 18 pcs., hex + tx-star	7119
Key Set in Foam 1/3, 36 pcs.	7264

Tool Cabinet, loaded, 385 pcs.

- 6 drawers fully loaded with 385 tools

Item	pcs	Art. No.
Tool Cabinet No. 7050, loaded	385	7050-X04

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, xcess performance, 85 pcs., 1/4+3/8+1/2"	7104
Ratchet Spanner Set in Foam 1/3, xcess perf., reversible, 12 pcs., 8-19 mm	7360
Socket Bit Set in Foam 2/3, xcess performance, 89 pcs., 1/4+1/2"	7204
Impact Socket Set in Foam 2/3, 41 pcs., 1/2"	7141
Screwdriver and Key Set in Foam 3/3, xcess performance, 74 pcs.	7251
Soft Foam Tray 1/3, empty, for storage	7199
Combination Spanner Set in Foam 2/3, xcess performance, 25 pcs., 6-32 mm	7344
Pliers Set in Foam 2/3, xcess performance, 10 pcs.	7240
Hammer and Punch Set in Foam 3/3, xcess performance, 19 pcs.	7291
Crimping Pliers in Foam 1/3, 7 pcs.	7227
Double Flexible Wrench Set in Foam 3/3, xcess perf., 17 pcs., hexagon	7132
Double Flexible Wrench Set in Foam 1/3, xcess perf., 6 pcs., tx-star T20-90	7131

Tool Cabinet, loaded, 377 pcs.

- 6 drawers fully loaded with 377 tools

Item	pcs	Art. No.
Tool Cabinet No. 7050, loaded	377	7050-X02A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 85 pcs., 1/4+3/8+1/2"	7100
Ratchet Spanner Set in Foam 1/3, xcess perf., reversible, 12 pcs., 8-19 mm	7360
Socket Bit Set in Foam 2/3, 87 pcs., 1/4+1/2"	7200
Pliers Set in Foam 2/3, xcess performance, 10 pcs.	7240
Screwdriver and Key Set in Foam 3/3, xcess performance, 74 pcs.	7251
Crimping Pliers in Foam 1/3, 7 pcs.	7227
Combination Spanner Set Nr. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Open End 2130-8T + Ring Spanners 2140-10T in Foam 2/3, 18 pcs.	7330
Hammer and Punch Set in Foam 3/3, xcess performance, 19 pcs.	7291
Workshop Files Set in Foam 1/3, 200 mm, 5 pcs.	7295
T-Handle Key Set in Foam 3/3, 18 pcs., hex + tx-star	7119
Combination Spanners No. 4410 + C-type 40-5 in Foam 1/3, 15 pcs.	7315

Tool Cabinet, loaded, 350 pcs.

- 6 drawers fully loaded with 350 tools

Item	pcs	Art. No.
Tool Cabinet No. 7050, loaded	350	7050-X01A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 85 pcs., 1/4+3/8+1/2"	7100
Ratchet Spanner Set in Foam 1/3, 14 pcs., 6-19 mm	7314
Socket Bit Set in Foam 2/3, 87 pcs., 1/4+1/2"	7200
Screwdriver Set in Foam 2/3, 15 pcs.	7260
Combination Spanner Set Nr. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Open End 2130-8T + Ring Spanners 2140-10T in Foam 2/3, 18 pcs.	7330
Pliers Set in Foam 2/3, 10 pcs.	7271
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290
Workshop Files Set in Foam 1/3, 200 mm, 5 pcs.	7295
Circlip Pliers in Foam 2/3, 8 pcs., 175 + 225 mm	7278
Pliers No. 1183 + 5730 in Foam 1/3, 4 pcs.	7274
Combination Spanners No. 4410 + C-type 40-5 in Foam 1/3, 15 pcs.	7315
T-Handle Key Set in Foam 3/3, 18 pcs., hex + tx-star	7119
Key Set in Foam 1/3, 36 pcs.	7264

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Tool Cabinet, loaded, 392 pcs.

- 7 drawers fully loaded with 392 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	392	7040-L06A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, xcess performance, 85 pcs., 1/4+3/8+1/2"	7104
Socket Bit Set in Foam 2/3, xcess performance, 89 pcs., 1/4+1/2"	7204
TX-Star and Hex Impact Socket Set in Foam 1/3, 18 pcs., 1/2"	7150
Screwdriver and Key Set in Foam 3/3, xcess performance, 74 pcs.	7251
Ratchet/Combination Spanners in Foam 3/3, xcess performance, 37 pcs.	7364
Impact Socket Set in Foam 2/3, 41 pcs., 1/2"	7141
Drive Shaft Socket Set in Foam 1/3, 12 pcs., 1/2"	7148
Pliers Set in Foam 2/3, xcess performance, 10 pcs.	7240
Crimping Pliers in Foam 1/3, 7 pcs.	7227
Hammer and Punch Set in Foam 3/3, xcess performance, 19 pcs.	7291

Tool Cabinet, loaded, 374 pcs.

- 7 drawers fully loaded with 374 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	374	7040-L05A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 85 pcs., 1/4+3/8+1/2"	7100
Socket Bit Set in Foam 2/3, 87 pcs., 1/4+1/2"	7200
Ratchet Spanner Set in Foam 1/3, xcess perf., reversible, 12 pcs., 8-19 mm	7360
Screwdriver and Key Set in Foam 3/3, xcess performance, 74 pcs.	7251
Combination Spanner and Ring Spanner Set in Foam 3/3, 31 pcs., 6-32 mm	7303
Impact Socket Set in Foam 2/3, 41 pcs., 1/2"	7141
Drive Shaft Socket Set in Foam 1/3, 12 pcs., 1/2"	7148
Pliers Set in Foam 1/3, 4 pcs.	7270
Pliers No. 1183 + 5730 in Foam 1/3, 4 pcs.	7274
Workshop Files Set in Foam 1/3, 200 mm, 5 pcs.	7295
Hammer and Punch Set in Foam 3/3, xcess performance, 19 pcs.	7291

Tool Cabinet, loaded, 374 pcs.

- 6 drawers fully loaded with 374 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	374	7040-L08A
Tool Cabinet No. 7029, loaded	374	7029-L08A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 191 pcs., 1/4+3/8+1/2", hex 4-32 mm	7117
Screwdriver Set in Foam 2/3, 15 pcs.	7260
Socket Bit Set in Foam 1/3, 40 pcs., 3/8+1/2"	7207
Combination Spanner and Ring Spanner Set in Foam 3/3, 31 pcs., 6-32 mm	7303
Ratchet Spanner Set in Foam 1/3, 14 pcs., 6-19 mm	7314
Combination Spanners No. 4410 + C-type 40-5 in Foam 1/3, 15 pcs.	7315
Key Set in Foam 1/3, 36 pcs.	7264
Pliers Set in Foam 2/3, 10 pcs.	7271
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290
Circlip Pliers in Foam 2/3, 8 pcs., 175 + 225 mm	7278
Pliers No. 1183 + 5730 in Foam 1/3, 4 pcs.	7274

Tool Cabinet, loaded, 351 pcs.

- 7 drawers fully loaded with 351 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	351	7040-L01A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 85 pcs., 1/4+3/8+1/2"	7100
Socket Bit Set in Foam 2/3, 87 pcs., 1/4+1/2"	7200
Soft Foam Tray 1/3, empty, for storage	7199
Screwdriver and Key Set in Foam 3/3, xcess performance, 74 pcs.	7251
Combination Spanner Set Nr. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Ratchet Spanner Set in Foam 1/3, xcess performance, 12 pcs., 8-19 mm	7380
Open End 2130-8T + Ring Spanners 2140-10T in Foam 2/3, 18 pcs.	7330
Combination Spanners No. 4410 + C-type 40-5 in Foam 1/3, 15 pcs.	7315
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290
Pliers Set in Foam 1/3, 4 pcs.	7270
Pliers No. 1183 + 5730 in Foam 1/3, 4 pcs.	7274
Circlip Pliers in Foam 2/3, 8 pcs., 175 + 225 mm	7278
Crimping Pliers in Foam 1/3, 7 pcs.	7227

Tool Cabinet, loaded, 332 pcs.

- 7 drawers fully loaded with 332 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	332	7040-L07A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 85 pcs., 1/4+3/8+1/2"	7100
Socket Bit Set in Foam 2/3, 87 pcs., 1/4+1/2"	7200
Ratchet Spanner Set in Foam 1/3, 14 pcs., 6-19 mm	7314
Screwdriver Set in Foam 2/3, 15 pcs.	7260
Key Set in Foam 1/3, 36 pcs.	7264
Combination Spanner Set Nr. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Combination Spanners No. 4410 + C-type 40-5 in Foam 1/3, 15 pcs.	7315
Open End 2130-8T + Ring Spanners 2140-10T in Foam 2/3, 18 pcs.	7330
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290
Pliers Set in Foam 2/3, 10 pcs.	7271
Pliers No. 1183 + 5730 in Foam 1/3, 4 pcs.	7274
Circlip Pliers in Foam 2/3, 8 pcs., 175 + 225 mm	7278
Workshop Files Set in Foam 1/3, 200 mm, 5 pcs.	7295

Tool Cabinet, loaded, 308 pcs.

- 5 drawers fully loaded with 308 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	308	7040-M06
Tool Cabinet No. 7029, loaded	308	7029-M06

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, xcess performance, 85 pcs., 1/4+3/8+1/2"	7104
Socket Bit Set in Foam 2/3, xcess performance, 89 pcs., 1/4+1/2"	7204
Pliers Set in Foam 1/3, xcess performance, 4 pcs.	7244
Screwdriver and Key Set in Foam 3/3, xcess performance, 74 pcs.	7251
Ratchet/Combination Spanners in Foam 3/3, xcess performance, 37 pcs.	7364
Hammer and Punch Set in Foam 3/3, xcess performance, 19 pcs.	7291

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Tool Cabinet, loaded, 308 pcs.

- 5 drawers fully loaded with 308 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	308	7040-M05A
Tool Cabinet No. 7029, loaded	308	7029-M05A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 85 pcs., 1/4+3/8+1/2"	7100
Socket Bit Set in Foam 2/3, 87 pcs., 1/4+1/2"	7200
Ratchet Spanner Set in Foam 1/3, xcess perf., reversible, 12 pcs., 8-19 mm	7360
Screwdriver and Key Set in Foam 3/3, xcess performance, 74 pcs.	7251
Combination Spanner and Ring Spanner Set in Foam 3/3, 31 pcs., 6-32 mm	7303
Pliers Set in Foam 1/3, xcess performance, 4 pcs.	7244
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290
Workshop Files Set in Foam 1/3, 200 mm, 5 pcs.	7295

Tool Cabinet, loaded, 308 pcs.

- 5 drawers fully loaded with 308 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	308	7040-M02A
Tool Cabinet No. 7029, loaded	308	7029-M02A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 85 pcs., 1/4+3/8+1/2"	7100
Socket Bit Set in Foam 2/3, 87 pcs., 1/4+1/2"	7200
Ratchet Spanner Set in Foam 1/3, xcess performance, 12 pcs., 8-19 mm	7380
Screwdriver and Key Set in Foam 3/3, xcess performance, 74 pcs.	7251
Combination Spanner and Ring Spanner Set in Foam 3/3, 31 pcs., 6-32 mm	7303
Pliers Set in Foam 1/3, 4 pcs.	7270
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290
Workshop Files Set in Foam 1/3, 200 mm, 5 pcs.	7295

Tool Cabinet, loaded, 385 pcs.

- 5 drawers fully loaded with 385 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	385	7040-M03
Tool Cabinet No. 7029, loaded	385	7029-M03

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 191 pcs., 1/4+3/8+1/2", hex 4-32 mm	7117
Impact Socket Set, 56 pcs., 1/2"	7180
Ratchet Spanner Set in Foam 1/3, 14 pcs., 6-19 mm	7314
Combination Spanner and Ring Spanner Set in Foam 3/3, 31 pcs., 6-32 mm	7303
Pliers Set in Foam 2/3, 10 pcs.	7271
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290
Screwdriver Set in Foam 2/3, 15 pcs.	7260
Key Set in Foam 1/3, 36 pcs.	7264

Tool Cabinet, loaded, 335 pcs.

- 4 drawers fully loaded with 335 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	335	7040-M01A
Tool Cabinet No. 7029, loaded	335	7029-M01A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 191 pcs., 1/4+3/8+1/2", hex 4-32 mm	7117
Screwdriver Set in Foam 2/3, 15 pcs.	7260
Socket Bit Set in Foam 1/3, 40 pcs., 3/8+1/2"	7207
Combination Spanner Set Nr. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Ratchet Spanner Set in Foam 1/3, 14 pcs., 6-19 mm	7314
Pliers Set in Foam 1/3, 4 pcs.	7270
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290
Key Set in Foam 1/3, 36 pcs.	7264

Tool Cabinet, loaded, 275 pcs.

- 3 drawers fully loaded with 275 tools

Item	pcs	Art. No.
Tool Cabinet No. 7040, loaded	275	7040-S01A
Tool Cabinet No. 7029, loaded	275	7029-S01A

with soft foam trays

Item	Art. No.
Socket Set in Foam 3/3, 191 pcs., 1/4+3/8+1/2", hex 4-32 mm	7117
Screwdriver Set in Foam 2/3, 15 pcs.	7260
Socket Bit Set in Foam 1/3, 40 pcs., 3/8+1/2"	7207
Combination Spanner Set Nr. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Pliers Set in Foam 1/3, 4 pcs.	7270

Drawer Divider System, for small parts

- for sorting small parts, e.g. in tool cabinets
- suitable for drawers with internal dimensions 55 x 570 x 400 mm (h x w x d)
- dividing sheets in four dimensions and the high number of bars in the lengthwise and cross-wise beams allow a multitude of individual subdivisions of the drawer
- for use in No. 7029 and 7040
- scope of delivery:
  2 longitudinal beams with 30 bars
  5 cross beams with 19 bars
  6 separation sheets small, 93 mm
  2 separation sheets medium, 112 mm
  3 separation sheets large, 150 mm
  4 separation sheets extra large, 187 mm

Item	pcs	Art. No.
Drawer Divider	22	7930

Suspension Rail with 7 hooks, for tool cabinet

- e.g. for screwdrivers
- accessory for tool cabinets No. 7029, 7040, 7050 and 7088A
- easy assembly by connecting to square pattern on cabinet side panels
- with 2 screws to secure tight fit
- dimension: space between hooks 45 mm, hook length 47 mm, hook ø 4.5 mm

Item	Width	Art. No.
Suspension Rail, with 7 hooks	325 mm	7934

Paper Roll Towel Holder, for tool cabinet

- for material with max. width 290 mm
- accessory for tool cabinets No. 7029, 7040, 7050 and 7088A
- capacity up to ø 400 mm
- for many different roll materials
- easy assembly by connecting to square pattern on cabinet side panels
- with 2 screws to secure tight fit

Item	Length	Width	Art. No.
Paper Roll Towel Holder	265 mm	323 mm	7935

Trash Bin, for tool cabinet and workbench

- accessory for tool cabinets No. 7029, 7040, 7050 and 7088A

Item	Length	Width	Height	Art. No.
Trash Bin	162 mm	135 mm	200 mm	7931

Storage Tray, for tool cabinet and workbench

- accessory for tool cabinets No. 7029, 7040, 7050 and 7088A

Item	Length	Width	Height	Art. No.
Storage Tray	302 mm	120 mm	60 mm	7932

Storage Box, for tool cabinet

- accessory for tool cabinets No. 7029, 7040, 7050 and 7088A
- for storage of spray cans, screwdrivers etc.

Item	Length	Width	Height	Art. No.
Storage Box	320 mm	90 mm	120 mm	7933

Storage Box

- with magnetic fixing
- universal accessory for tool cabinets, work benches etc.
- suitable for 3 spray cans (ø 70 mm), e.g. brake cleaner and spray oil
- with 10 holes (ø 19.5 mm), ideal for e.g. screwdrivers
- magnets with rubber coating, protects against scratches on contact surface
- with 6 extra strong magnets

Item	max. load	Length	Width	Height	Art. No.
Storage Box	1.8 kg	210 mm	73 mm	70 mm	7940

Storage Tray Set, 3 pcs.

- with magnetic fixing
- universal accessory for tool cabinets, work benches etc.
- magnets with rubber coating, protects against scratches on contact surface
- 1x tray with inner dimension 310x115x30 mm (lxwxh), capacity 1.17 kg, 4 magnets
- 1x tray with inner dimension 210x115x30 mm (lxwxh), capacity 0.77 kg, 3 magnets
- 1x tray with inner dimension 150x115x30 mm (lxwxh), capacity 0.60 kg, 2 magnets

Item	pcs	Art. No.
Storage Tray Set	3	7943

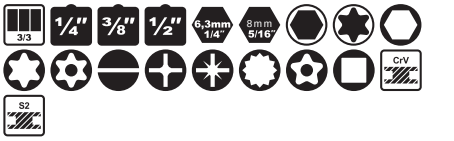
Soft Foam Trays

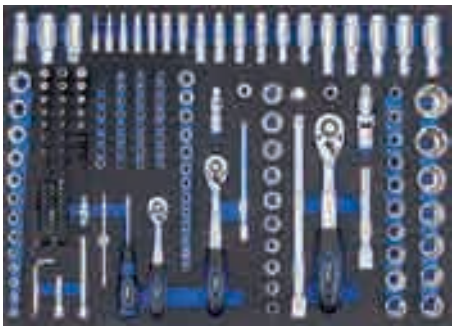
- 2-colour PU foam
- chemical resistant
- size 1/3: 36 x 185 x 395 mm (h x w x d)
- size 2/3: 36 x 375 x 395 mm (h x w x d)
- size 3/3: 36 x 560 x 395 mm (h x w x d)

Socket Set in Foam 3/3, 191 pcs., 1/4+3/8+1/2", Hex 4-32 mm

Content		22 mm	22088-22	T25	14033-25	1/4", 37 mm long	
hexagon		24 mm	22088-24	T27	14033-27	4 mm	14077-4
1/4", standard		27 mm	22088-27	T30	14033-30	5.5 mm	14077-5.5
4 mm	21288-4	30 mm	22088-30	1/4" bit, 25 mm		6.5 mm	14077-6.5
4.5 mm	21288-4.5	32 mm	22088-32	T7	16033-7	7 mm	14077-7
5 mm	21288-5	1/2", deep		T8	16033-8	1/4" bit, 25 mm	
5.5 mm	21288-5.5	16 mm	22099-16	T9	16033-9	2.5 mm	*16077-2.5*
6 mm	21288-6	17 mm	22099-17	T10	16033-10	3 mm	*16077-3*
7 mm	21288-7	18 mm	22099-18	T15	16033-15	4 mm	*16077-4*
8 mm	21288-8	19 mm	22099-19	T20	16033-20	5 mm	*16077-5*
9 mm	21288-9	22 mm	22099-22	T25	16033-25	6.5 mm	*16077-6.5*
10 mm	21288-10	TX-Star E		T27	16033-27	7 mm	*16077-7*
11 mm	21288-11	1/4", standard		T30	16033-30	8 mm bit, 30 mm	
12 mm	21288-12	E4	22400-E4	8 mm bit, 30 mm		8 mm	*17077-8*
13 mm	21288-13	E5	22400-E5	T40	17033-40	10 mm	*17077-10*
1/4", deep		E6	22400-E6	T45	17033-45	12 mm	*17077-12*
4 mm	21299-4	E7	22400-E7	T50	17033-50	Cross Slot PH	
5 mm	21299-5	E8	22400-E8	10 mm bit, 30 mm		1/4", 37 mm long	
6 mm	21299-6	3/8", standard		T55	18033-55	PH0	*14088-0*
7 mm	21299-7	E10	22420-E10	T60	18033-60	PH1	14088-1
8 mm	21299-8	E11	22420-E11	T70	18033-70	PH2	14088-2
9 mm	21299-9	E12	22420-E12	TX-Star tamperproof		1/4" bit, 25 mm	
10 mm	21299-10	E14	22420-E14	1/4", 37 mm long		PH1	*16088-1*
3/8", standard		E16	22420-E16	T8	14044-8	PH2	*16088-2*
10 mm	21688-10	E18	22420-E18	T9	14044-9	PH3	*16088-3*
11 mm	21688-11	1/2", standard		T10	14044-10	8 mm bit, 30 mm	
12 mm	21688-12	E20	22440-E20	T15	14044-15	PH3	*17088-3*
13 mm	21688-13	E24	22440-E24	T20	14044-20	PH4	*17088-4*
14 mm	21688-14	Hexagon		T25	14044-25	Cross Slot PZ	
15 mm	21688-15	1/4", 37 mm long		T27	14044-27	1/4", 37 mm long	
16 mm	21688-16	3 mm	14022-3	T30	14044-30	PZ0	*14099-0*
17 mm	21688-17	4 mm	14022-4	8 mm bit, 30 mm		PZ1	*14099-1*
18 mm	21688-18	5 mm	14022-5	T40	17044-40	PZ2	*14099-2*
19 mm	21688-19	6 mm	14022-6	T45	17044-45	1/4" bit, 25 mm	
3/8", deep		1/4" bit, 25 mm		T50	17044-50	PZ1	*16099-1*
10 mm	21699-10	2 mm	16022-2	10 mm bit, 30 mm		PZ2	*16099-2*
11 mm	21699-11	2.5 mm	16022-2.5	T55	18044-55	PZ3	*16099-3*
12 mm	21699-12	3 mm	16022-3	T60	18044-60	8 mm bit, 30 mm	
13 mm	21699-13	4 mm	16022-4	T70	18044-70	PZ3	*17099-3*
14 mm	21699-14	5 mm	16022-5	Spline		PZ4	*17099-4*
15 mm	21699-15	6 mm	16022-6	1/4" bit, 25 mm		Square	
1/2", standard		8 mm bit, 30 mm		M5	16011-5	1/4" bit, 25 mm	
10 mm	22088-10	7 mm	17022-7	M6	16011-6	No.1	*16991-1*
11 mm	22088-11	8 mm	17022-8	M8	16011-8	No.2	*16991-2*
12 mm	22088-12	10 mm	17022-10	5-Star tamperproof		No.3	*16991-3*
13 mm	22088-13	12 mm	17022-12	1/4" bit, 25 mm		Spark Plug Sockets	
14 mm	22088-14	14 mm	17022-14	TS10	16066-10	3/8", standard	
15 mm	22088-15	TX-Star T		TS15	16066-15	18 mm	209D
16 mm	22088-16	1/4", 37 mm long		TS20	16066-20	1/2", standard	
17 mm	22088-17	T8	14033-8	TS25	16066-25	16 mm	209A
18 mm	22088-18	T9	14033-9	TS27	16066-27	21 mm	209
19 mm	22088-19	T10	14033-10	TS30	16066-30		
20 mm	22088-20	T15	14033-15	TS40	16066-40		
21 mm	22088-21	T20	14033-20	Plain Slot			

Item	Drive	pcs	Art. No.
Socket Set in Foam	1/4+3/8+1/2"	191	7117





Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 150 mm	1207-1
Spinner Handle, 1/4", 150 mm	21119
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Bit Holder, 1/4", for 1/4" bits	20624
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1207-2
Extension Bar, 3/8", 150 mm	21505
Universal Joint, 3/8"	21525
Bit Holder, 3/8", for 8 mm bits	20623
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1207-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	21901
Universal Joint, 1/2"	21925
Bit Holder, 1/2", for 10 mm bits	20620
Miscellaneous Tools	
Hex Key Set, 7 pcs., 1-5 mm	*2215WKS*

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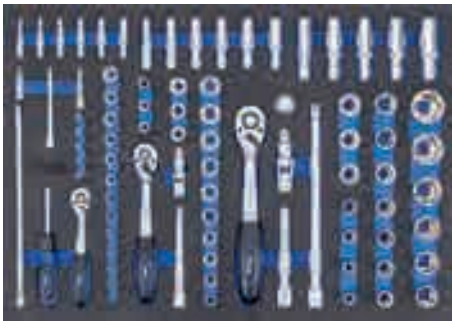
Socket Set in Foam 3/3, xcess performance, 85 pcs., 1/4+3/8+1/2"

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 140 mm	1218-1
Spinner Handle, 1/4", 150 mm	21116
Extension Bar, 1/4", 50 mm	24805
Extension Bar, 1/4", 100 mm	24810
Extension Bar, 1/4", 300 mm	24830
Universal Joint, 1/4"	24925
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 200 mm	1218-2
Extension Bar, 3/8", 125 mm	26812
Universal Joint, 3/8"	26925
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1218-3
Extension Bar, 1/2", 125 mm	28812
Extension Bar, 1/2", 250 mm	28825
T-Head, 1/2"	28901
Universal Joint, 1/2"	28925

Content					
hexagon		14 mm	25000-14	27 mm	27000-27
1/4", standard		15 mm	25000-15	30 mm	27000-30
4 mm	23000-4	16 mm	25000-16	32 mm	27000-32
4.5 mm	23000-4.5	17 mm	25000-17	1/2", deep	
5 mm	23000-5	18 mm	25000-18	16 mm	27077-16
5.5 mm	23000-5.5	19 mm	25000-19	17 mm	27077-17
6 mm	23000-6	3/8", deep		18 mm	27077-18
7 mm	23000-7	10 mm	25077-10	19 mm	27077-19
8 mm	23000-8	11 mm	25077-11	22 mm	27077-22
9 mm	23000-9	12 mm	25077-12	TX-Star E	
10 mm	23000-10	13 mm	25077-13	1/4", standard	
11 mm	23000-11	14 mm	25077-14	E4	23011-4
12 mm	23000-12	15 mm	25077-15	E5	23011-5
13 mm	23000-13	1/2", standard		E6	23011-6
14 mm	23000-14	10 mm	27000-10	E7	23011-7
1/4", deep		11 mm	27000-11	E8	23011-8
5 mm	23077-5	12 mm	27000-12	3/8", standard	
6 mm	23077-6	13 mm	27000-13	E10	25011-10
7 mm	23077-7	14 mm	27000-14	E11	25011-11
8 mm	23077-8	15 mm	27000-15	E12	25011-12
9 mm	23077-9	16 mm	27000-16	E14	25011-14
10 mm	23077-10	17 mm	27000-17	E16	25011-16
3/8", standard		18 mm	27000-18	E18	25011-18
10 mm	25000-10	19 mm	27000-19	1/2", standard	
11 mm	25000-11	20 mm	27000-20	E20	27011-20
12 mm	25000-12	21 mm	27000-21	E22	27011-22
13 mm	25000-13	22 mm	27000-22	E24	27011-24
		24 mm	27000-24		

Item	Drive	pcs	Art. No.
Socket Set in Foam	1/4+3/8+1/2"	85	7104

Socket Set in Foam 3/3, 85 pcs., 1/4+3/8+1/2"



Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 150 mm	1207-1
Spinner Handle, 1/4", 150 mm	21119
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Extension Bar, 1/4", 250 mm	*21106*
Universal Joint, 1/4"	21125
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1207-2
Extension Bar, 3/8", 125 mm	21503
Universal Joint, 3/8"	21525
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1207-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	21901
Universal Joint, 1/2"	21925

Content					
hexagon		14 mm	21688-14	27 mm	22088-27
1/4", standard		15 mm	21688-15	30 mm	22088-30
4 mm	21288-4	16 mm	21688-16	32 mm	22088-32
4.5 mm	21288-4.5	17 mm	21688-17	1/2", deep	
5 mm	21288-5	18 mm	21688-18	16 mm	22099-16
5.5 mm	21288-5.5	19 mm	21688-19	17 mm	22099-17
6 mm	21288-6	3/8", deep		18 mm	22099-18
7 mm	21288-7	10 mm	21699-10	19 mm	22099-19
8 mm	21288-8	11 mm	21699-11	22 mm	22099-22
9 mm	21288-9	12 mm	21699-12	TX-Star E	
10 mm	21288-10	13 mm	21699-13	1/4", standard	
11 mm	21288-11	14 mm	21699-14	E4	22400-E4
12 mm	21288-12	15 mm	21699-15	E5	22400-E5
13 mm	21288-13	1/2", standard		E6	22400-E6
14 mm	21288-14	10 mm	22088-10	E7	22400-E7
1/4", deep		11 mm	22088-11	E8	22400-E8
5 mm	21299-5	12 mm	22088-12	3/8", standard	
6 mm	21299-6	13 mm	22088-13	E10	22420-E10
7 mm	21299-7	14 mm	22088-14	E11	22420-E11
8 mm	21299-8	15 mm	22088-15	E12	22420-E12
9 mm	21299-9	16 mm	22088-16	E14	22420-E14
10 mm	21299-10	17 mm	22088-17	E16	22420-E16
3/8", standard		18 mm	22088-18	E18	22420-E18
10 mm	21688-10	19 mm	22088-19	1/2", standard	
11 mm	21688-11	20 mm	22088-20	E20	22440-E20
12 mm	21688-12	21 mm	22088-21	E22	22440-E22
13 mm	21688-13	22 mm	22088-22	E24	22440-E24
		24 mm	22088-24		

Item	Drive	pcs	Art. No.
Socket Set in Foam	1/4+3/8+1/2"	85	7100

Socket Set in Foam 2/3, 96 pcs., 1/4+1/2", hex 4-32 mm

Content					
hexagon					
1/4", standard					
4 mm	21288-4				
4.5 mm	21288-4.5				
5 mm	21288-5				
5.5 mm	21288-5.5				
6 mm	21288-6				
7 mm	21288-7				
8 mm	21288-8				
9 mm	21288-9				
10 mm	21288-10				
11 mm	21288-11				
12 mm	21288-12				
13 mm	21288-13				
14 mm	21288-14				
1/4", deep					
6 mm	21299-6				
7 mm	21299-7				
8 mm	21299-8				
9 mm	21299-9				
10 mm	21299-10				
11 mm	21299-11				
12 mm	21299-12				
13 mm	21299-13				
1/2", standard					
10 mm	22088-10				
11 mm	22088-11				
12 mm	22088-12				
13 mm	22088-13				
14 mm	22088-14				
15 mm	22088-15				
16 mm	22088-16				
17 mm	22088-17				
18 mm	22088-18				
19 mm	22088-19				
20 mm	22088-20				
21 mm	22088-21				
22 mm	22088-22				
24 mm	22088-24				
27 mm	22088-27				
30 mm	22088-30				
32 mm	22088-32				
1/2", deep					
14 mm	22099-14				
15 mm	22099-15				
17 mm	22099-17				
19 mm	22099-19				
Hexagon					
1/4", 37 mm long					
3 mm	14022-3				
4 mm	14022-4				
5 mm	14022-5				
6 mm	14022-6				
8 mm bit, 30 mm					
7 mm	17022-7				
8 mm	17022-8				
10 mm	17022-10				
12 mm	17022-12				
14 mm	17022-14				
TX-Star T					
1/4", 37 mm long					
T8	14033-8				
T10	14033-10				
T15	14033-15				
T20	14033-20				
T25	14033-25				
T27	14033-27				
T30	14033-30				
T40	17033-40				
T45	17033-45				
T50	17033-50				
T55	17033-55				
T60	17033-60				
Plain Slot					
1/4", 37 mm long					
4 mm	14077-4				
5.5 mm	14077-5.5				
7 mm	14077-7				
8 mm bit, 30 mm					
8 mm	*17077-8*				
10 mm	*17077-10*				
12 mm	*17077-12*				
Cross Slot PH					
1/4", 37 mm long					
PH1	14088-1				
PH2	14088-2				
8 mm bit, 30 mm					
PH3	*17088-3*				
PH4	*17088-4*				
Cross Slot PZ					
1/4", 37 mm long					
PZ1	*14099-1*				
PZ2	*14099-2*				
8 mm bit, 30 mm					
PZ3	*17099-3*				
PZ4	*17099-4*				
Spark Plug Sockets					
1/2", standard					
16 mm	209A				
21 mm	209				

Item	Drive	pcs	Art. No.
Socket Set in Foam	1/4+1/2"	96	7198

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 150 mm	1207-1
Spinner Handle, 1/4", 150 mm	21119
Flexible Extension Bar, 1/4", 150 mm	21109
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Adapter, 1/4" square x 1/4" hexagon	*20630*
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1207-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	21901
Universal Joint, 1/2"	21925
Bit Holding Socket, 1/2", for 8 mm bits	20621
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

Socket Set in Foam 3/3, 21 pcs., 3/4", hex 19-50 mm

Content					
hexagon					
3/4", standard					
19 mm	22600-19				
21 mm	22600-21				
22 mm	22600-22				
23 mm	22600-23				
24 mm	22600-24				
26 mm	22600-26				
27 mm	22600-27				
29 mm	22600-29				
30 mm	22600-30				
32 mm	22600-32				
35 mm	22600-35				
36 mm	22600-36				
38 mm	22600-38				
41 mm	22600-41				
46 mm	22600-46				
50 mm	22600-50				

Item	Drive	pcs	Art. No.
Socket Set in Foam	3/4"	21	7134

Drive Tools / Accessory, 3/4"	
Reversible Ratchet, 3/4", 500 mm	22550
Extension Bar, 3/4", 100 mm	22500
Extension Bar, 3/4", 200 mm	22505
Extension Bar, 3/4", 400 mm	22510
Sliding T-Bar, 3/4", 450 mm	22520

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Socket Set in Foam 1/3, 25 pcs., 1/2"

Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 255 mm	1205-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
Universal Joint, 1/2"	21925
Sliding T-Bar, 1/2", 250 mm	21920

Content					
hexagon		14 mm	22088-14	27 mm	22088-27
1/2", standard		15 mm	22088-15	30 mm	22088-30
8 mm	22088-8	16 mm	22088-16	32 mm	22088-32
9 mm	22088-9	17 mm	22088-17	Spark Plug Sockets	
10 mm	22088-10	18 mm	22088-18	1/2", standard	
11 mm	22088-11	19 mm	22088-19	16 mm	209A
12 mm	22088-12	21 mm	22088-21	21 mm	209
13 mm	22088-13	22 mm	22088-22		
		24 mm	22088-24		

Item	Drive	pcs	Art. No.
Socket Set in Foam	1/2"	25	7112

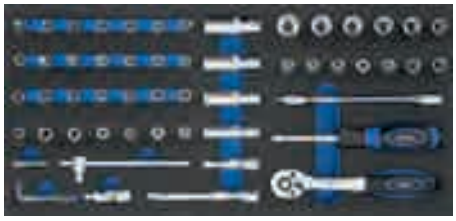
Socket Set in Foam 1/3, 26 pcs., 3/8"

Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1205-2
Extension Bar, 3/8", 45 mm	*21502*
Extension Bar, 3/8", 75 mm	21500
Extension Bar, 3/8", 150 mm	21505
Sliding T-Head, 3/8"	21501
Universal Joint, 3/8"	21525

Content					
hexagon		12 mm	21688-12	21 mm	21688-21
3/8", standard		13 mm	21688-13	22 mm	21688-22
6 mm	21688-6	14 mm	21688-14	24 mm	21688-24
7 mm	21688-7	15 mm	21688-15	Spark Plug Sockets	
8 mm	21688-8	16 mm	21688-16	3/8", standard	
9 mm	21688-9	17 mm	21688-17	16 mm	209C
10 mm	21688-10	18 mm	21688-18	21 mm	209B
11 mm	21688-11	19 mm	21688-19		
		20 mm	21688-20		

Item	Drive	pcs	Art. No.
Socket Set in Foam	3/8"	26	7138

Socket Set in Foam 1/3, 57 pcs., 1/4"



Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 150 mm	1207-1
Spinner Handle, 1/4", 150 mm	21119
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Flexible Extension Bar, 1/4", 150 mm	21109
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Adapter, 1/4" square x 1/4" hexagon	*20630*
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.3, 1.5, 2.0, 2.5 mm	*1046-WKS*

Content					
hexagon		TX-Star E		T25	14033-25
1/4", standard		1/4", standard		T27	14033-27
4 mm	21288-4	E4	22400-E4	T30	14033-30
4.5 mm	21288-4.5	E5	22400-E5	T40	14033-40
5 mm	21288-5	E6	22400-E6	Plain Slot	
5.5 mm	21288-5.5	E7	22400-E7	1/4", 37 mm long	
6 mm	21288-6	E8	22400-E8	4 mm	14077-4
7 mm	21288-7	E10	22400-E10	5.5 mm	14077-5.5
8 mm	21288-8	Hexagon		7 mm	14077-7
9 mm	21288-9	1/4", 37 mm long		Cross Slot PH	
10 mm	21288-10	3 mm	14022-3	1/4", 37 mm long	
11 mm	21288-11	4 mm	14022-4	PH1	14088-1
12 mm	21288-12	5 mm	14022-5	PH2	14088-2
13 mm	21288-13	6 mm	14022-6	PH3	*14088-3*
14 mm	21288-14	7 mm	14022-7	Cross Slot PZ	
1/4", deep		8 mm	14022-8	1/4", 37 mm long	
8 mm	21299-8	TX-Star T		PZ1	*14099-1*
10 mm	21299-10	1/4", 37 mm long		PZ2	*14099-2*
11 mm	21299-11	T10	14033-10	PZ3	*14099-3*
13 mm	21299-13	T15	14033-15		
		T20	14033-20		

Item	Drive	pcs	Art. No.
Socket Set in Foam	1/4"	57	7114

Socket Bit Set in Foam 2/3, xcess performance, 89 pcs., 1/4+1/2"

Content		12 mm	28102-12	T25	28103-25	M12	28011-12
Hexagon		13 mm	28102-13	T27	28103-27	M14	28011-14
1/4", 37 mm long		14 mm	28102-14	T30	28103-30	M16	28011-16
3 mm	24022-3	TX-Star T		T40	28103-40	1/2", 100 mm long	
4 mm	24022-4	1/4", 37 mm long		T45	28103-45	M5	28101-5
5 mm	24022-5	T8	24033-8	T50	28103-50	M6	28101-6
6 mm	24022-6	T9	24033-9	T55	28103-55	M8	28101-8
7 mm	24022-7	T10	24033-10	T60	28103-60	M9	28101-9
8 mm	24022-8	T15	24033-15	T70	28103-70	M10	28101-10
1/2", 55 mm long		T20	24033-20	TX-Star tamperproof		M12	28101-12
5 mm	28022-5	T25	24033-25	8 mm bit, 30 mm		M14	28101-14
6 mm	28022-6	T27	24033-27	T20	17044-20	M16	28101-16
7 mm	28022-7	T30	24033-30	T25	17044-25	5-Star tamperproof	
8 mm	28022-8	T40	24033-40	T27	17044-27	1/4", 37 mm long	
9 mm	28022-9	T45	24033-45	T30	17044-30	TS10	*24066-10*
10 mm	28022-10	1/2", 55 mm long		T40	17044-40	TS15	*24066-15*
12 mm	28022-12	T20	28033-20	T45	17044-45	TS20	*24066-20*
14 mm	28022-14	T25	28033-25	T50	17044-50	TS25	*24066-25*
17 mm	28022-17	T27	28033-27	T55	17044-55	TS27	*24066-27*
19 mm	28022-19	T30	28033-30	T60	17044-60	TS30	*24066-30*
1/2", 100 mm long		T40	28033-40	Spline		TS40	*24066-40*
6 mm	28102-6	T45	28033-45	1/2", 55 mm long		Cross Slot PH	
7 mm	28102-7	T50	28033-50	M5	28011-5	1/4", 37 mm long	
8 mm	28102-8	T55	28033-55	M6	28011-6	PH1	24088-1
9 mm	28102-9	T60	28033-60	M8	28011-8	PH2	24088-2
10 mm	28102-10	T70	28033-70	M9	28011-9		
11 mm	28102-11	1/2", 100 mm long		M10	28011-10		

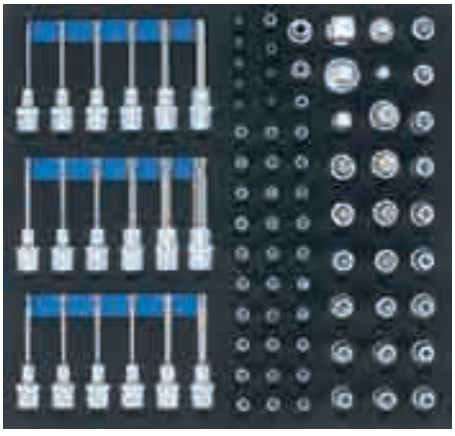
Item	Drive	pcs	Art. No.
Socket Bit Set in Foam	1/4+1/2"	89	7204

Drive Tools / Accessory, 1/2"	
Bit Holding Socket, 1/2", for 8 mm bits	28900

Socket Bit Set in Foam 2/3, 87 pcs., 1/4+1/2"

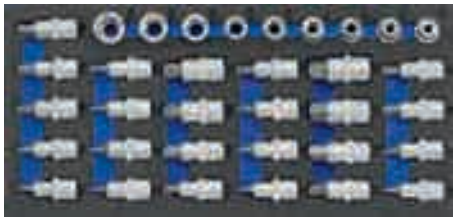
Content		T9	14033-9	T20	17044-20	TS10	*14066-10*
Hexagon		T10	14033-10	T25	17044-25	TS15	*14066-15*
1/4", 37 mm long		T15	14033-15	T27	17044-27	TS20	*14066-20*
3 mm	14022-3	T20	14033-20	T30	17044-30	TS25	*14066-25*
4 mm	14022-4	T25	14033-25	T40	17044-40	TS27	*14066-27*
5 mm	14022-5	T27	14033-27	T45	17044-45	TS30	*14066-30*
6 mm	14022-6	T30	14033-30	T50	17044-50	TS40	*14066-40*
8 mm	14022-8	1/2", 55 mm long		T55	17044-55	TS45	*14066-45*
1/2", 55 mm long		T20	12033-20	T60	17044-60	TS50	*14066-50*
7 mm	12022-7	T25	12033-25	Spline		Plain Slot	
8 mm	12022-8	T27	12033-27	1/2", 55 mm long		1/4", 37 mm long	
10 mm	12022-10	T30	12033-30	M5	12011-5	4 mm	14077-4
12 mm	12022-12	T40	12033-40	M6	12011-6	5.5 mm	14077-5.5
14 mm	12022-14	T45	12033-45	M8	12011-8	6.5 mm	14077-6.5
17 mm	12022-17	T50	12033-50	M10	12011-10	Cross Slot PH	
19 mm	12022-19	T55	12033-55	M12	12011-12	1/4", 37 mm long	
1/2", 100 mm long		T60	12033-60	M14	12011-14	PH0	*14088-0*
5 mm	12102-5	1/2", 100 mm long		1/2", 100 mm long		PH1	14088-1
6 mm	12102-6	T25	12103-25	M5	12101-5	PH2	14088-2
7 mm	12102-7	T27	12103-27	M6	12101-6	Cross Slot PZ	
8 mm	12102-8	T30	12103-30	M8	12101-8	1/4", 37 mm long	
10 mm	12102-10	T40	12103-40	M10	12101-10	PZ1	*14099-1*
12 mm	12102-12	T45	12103-45	M12	12101-12	PZ2	*14099-2*
TX-Star T		T50	12103-50	M14	12101-14		
1/4", 37 mm long		TX-Star tamperproof		5-Star tamperproof			
T8	14033-8	8 mm bit, 30 mm		1/4", 37 mm long			

Item	Drive	pcs	Art. No.
Socket Bit Set in Foam	1/4+1/2"	87	7200



Drive Tools / Accessory, 1/4"	
Socket Converter, 1/4" F x 3/8" M	20601
Bit Holder, 1/4", for 1/4" bits	20624
Drive Tools / Accessory, 3/8"	
Socket Converter, 3/8" F x 1/2" M	20604
Bit Holder, 3/8", for 8 mm bits	20623
Drive Tools / Accessory, 1/2"	
Socket Converter, 1/2" F x 3/8" M	20603
Socket Converter, 1/2" F x 3/4" M	20605
Bit Holding Socket, 1/2", for 8 mm bits	20621
Drive Tools / Accessory, 3/4"	
Socket Converter, 3/4" F x 1/2" M	20606

Socket and Socket Bit Set in Foam 1/3, 34 pcs., 1/2"



Content		E24	22440-E24	TX-Star T		Spline	
TX-Star E		Hexagon		1/2", 55 mm long		1/2", 55 mm long	
1/2", standard		1/2", 55 mm long		T20	12033-20	M5	12011-5
E10	22440-E10	6 mm	12022-6	T25	12033-25	M6	12011-6
E11	22440-E11	7 mm	12022-7	T27	12033-27	M8	12011-8
E12	22440-E12	8 mm	12022-8	T30	12033-30	M9	12011-9
E14	22440-E14	10 mm	12022-10	T40	12033-40	M10	12011-10
E16	22440-E16	12 mm	12022-12	T45	12033-45	M12	12011-12
E18	22440-E18	14 mm	12022-14	T50	12033-50	M14	12011-14
E20	22440-E20	17 mm	12022-17	T55	12033-55	M16	12011-16
E22	22440-E22	19 mm	12022-19	T60	12033-60		

Item	Drive	pcs	Art. No.
Socket and Socket Bit Set in Foam	1/2"	34	7135

Socket Bit Set in Foam 1/3, 40 pcs., 3/8+1/2"

Drive Tools / Accessory, 3/8"	
Bit Holder, 3/8", for 10 mm bits	20622
Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620

Content		13 mm	18072-13	T60	18073-60	T60	18074-60
Hexagon		14 mm	18072-14	T70	18073-70	T70	18074-70
10 mm bit, 75 mm		TX-Star T		TX-Star tamperproof		Spline	
4 mm	18072-4	10 mm bit, 75 mm		10 mm bit, 75 mm		10 mm bit, 75 mm	
5 mm	18072-5	T20	18073-20	T20	18074-20	M5	18071-5
6 mm	18072-6	T25	18073-25	T25	18074-25	M6	18071-6
7 mm	18072-7	T27	18073-27	T27	18074-27	M8	18071-8
8 mm	18072-8	T30	18073-30	T30	18074-30	M9	18071-9
9 mm	18072-9	T40	18073-40	T40	18074-40	M10	18071-10
10 mm	18072-10	T45	18073-45	T45	18074-45	M12	18071-12
11 mm	18072-11	T50	18073-50	T50	18074-50	M14	18071-14
12 mm	18072-12	T55	18073-55	T55	18074-55		

Item	Drive	pcs	Art. No.
Socket Bit Set in Foam	3/8+1/2"	40	7207

Inch Tool Set in Foam 2/3, 81 pcs., 1/4+3/8+1/2"

Miscellaneous Tools	
Hex Key Set, 9 pcs., 1/16-3/8"	*2172WKS*

Content		5/16"	*13Z-5-16*	7/8"	12Z-7-8	5/16"	*5107-516*
Hexagon inch		11/32"	*13Z-11-32*	15/16"	12Z-15-16	3/8"	*5107-38*
1/4", standard		3/8"	*13Z-3-8*	1"	12Z1-1	1/2", 55 mm long	
5/32"	14Z-5-32	7/16"	*13Z-7-16*	1.1/16"	12Z1-1-16	5/16"	*7181-516*
3/16"	14Z-3-16	1/2"	*13Z-1-2*	1.1/8"	12Z1-1-8	3/8"	*7181-38*
7/32"	14Z-7-32	9/16"	*13Z-9-16*	1.1/4"	12Z1-1-4	7/16"	*7181-716*
1/4"	14Z-1-4	19/32"	*13Z-19-32*	1/2", deep		1/2"	*7181-12*
9/32"	14Z-9-32	5/8"	*13Z-5-8*	11/16"	22Z-11-16	9/16"	*7181-916*
5/16"	14Z-5-16	11/16"	*13Z-11-16*	3/4"	22Z-3-4	5/8"	*7181-58*
11/32"	14Z-11-32	3/8", deep		13/16"	22Z-13-16	Spanners	
3/8"	14Z-3-8	1/2"	*23Z-1-2*	7/8"	22Z-7-8	Combination Spanner	
13/32"	14Z-13-32	9/16"	*23Z-9-16*	Hexagon inch		1/4"	*21Z-1-4*
7/16"	14Z-7-16	5/8"	*23Z-5-8*	1/4", 37 mm long		5/16"	*21Z-5-16*
15/32"	14Z-15-32	1/2", standard		1/8"	*7181-18*	3/8"	*21Z-3-8*
1/2"	14Z-1-2	3/8"	12Z-3-8	5/32"	*7181-532*	7/16"	*21Z-7-16*
1/4", deep		7/16"	12Z-7-16	3/16"	*7181-316*	1/2"	*21Z-1-2*
1/4"	24Z-1-4	1/2"	12Z-1-2	7/32"	*7181-732*	9/16"	*21Z-9-16*
5/16"	24Z-5-16	9/16"	12Z-9-16	1/4"	*7181-14*	5/8"	*21Z-5-8*
3/8"	24Z-3-8	5/8"	12Z-5-8	3/8", 48 mm long		11/16"	*21Z-11-16*
7/16"	24Z-7-16	11/16"	12Z-11-16	3/16"	*5107-316*	3/4"	*21Z-3-4*
1/2"	24Z-1-2	3/4"	12Z-3-4	7/32"	*5107-732*		
3/8", standard		13/16"	12Z-13-16	1/4"	*5107-14*		

Item	Drive	pcs	Art. No.
Inch Tool Set in Foam	1/4+3/8+1/2"	81	7181

Impact Socket Set in Foam 2/3, 41 pcs., 1/2"

Content		19 mm	22000-K19	13 mm	22099-K13
hexagon		20 mm	22000-K20	14 mm	22099-K14
1/2", standard		21 mm	22000-K21	15 mm	22099-K15
8 mm	22000-K8	22 mm	22000-K22	16 mm	22099-K16
9 mm	22000-K9	24 mm	22000-K24	17 mm	22099-K17
10 mm	22000-K10	27 mm	22000-K27	18 mm	22099-K18
11 mm	22000-K11	30 mm	22000-K30	19 mm	22099-K19
12 mm	22000-K12	32 mm	22000-K32	20 mm	22099-K20
13 mm	22000-K13	1/2", deep		21 mm	22099-K21
14 mm	22000-K14	8 mm	22099-K8	22 mm	22099-K22
15 mm	22000-K15	9 mm	22099-K9	24 mm	22099-K24
16 mm	22000-K16	10 mm	22099-K10	27 mm	22099-K27
17 mm	22000-K17	11 mm	22099-K11	30 mm	22099-K30
18 mm	22000-K18	12 mm	22099-K12	32 mm	22099-K32

Item	Drive	pcs	Art. No.
Impact Socket Set in Foam	1/2"	41	7141

Drive Tools / Accessory, 1/2"	
Impact Extension Bar, 1/2", 125 mm	20125K
Impact Socket Converter, 3/4" female x 1/2" male	20610
Impact Swivel Joint Adapter, 1/2", CrMo	21930A

Impact Socket Set in Foam 2/3, 56 pcs., 1/2"

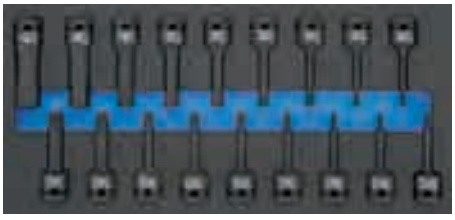
Content		10 mm	12072-K10	1/2", 78 mm long		M10	12011-K10
Hexagon		12 mm	12072-K12	T20	12073-K20	M12	12011-K12
1/2", 40 mm long		14 mm	12072-K14	T25	12073-K25	M14	12011-K14
5 mm	12022-K5	17 mm	12072-K17	T27	12073-K27	M16	12011-K16
6 mm	12022-K6	19 mm	12072-K19	T30	12073-K30	M18	12011-K18
7 mm	12022-K7	TX-Star T		T40	12073-K40	1/2", 78 mm long	
8 mm	12022-K8	1/2", 40 mm long		T45	12073-K45	M5	12071-K5
10 mm	12022-K10	T20	12033-K20	T50	12073-K50	M6	12071-K6
12 mm	12022-K12	T25	12033-K25	T55	12073-K55	M8	12071-K8
14 mm	12022-K14	T27	12033-K27	T60	12073-K60	M9	12071-K9
17 mm	12022-K17	T30	12033-K30	T70	12073-K70	M10	12071-K10
19 mm	12022-K19	T40	12033-K40	Spline		M12	12071-K12
1/2", 78 mm long		T45	12033-K45	1/2", 40 mm long		M14	12071-K14
5 mm	12072-K5	T50	12033-K50	M5	12011-K5	M16	12071-K16
6 mm	12072-K6	T55	12033-K55	M6	12011-K6	M18	12071-K18
7 mm	12072-K7	T60	12033-K60	M8	12011-K8		
8 mm	12072-K8	T70	12033-K70	M9	12011-K9		

Item	Drive	pcs	Art. No.
Impact Socket Set in Foam	1/2"	56	7180

TX-Star and Hex Impact Socket Set in Foam 1/3, 18 pcs., 1/2"

Content		12 mm	12072-K12	T27	12073-K27
Hexagon		14 mm	12072-K14	T30	12073-K30
1/2", 78 mm long		17 mm	12072-K17	T40	12073-K40
4 mm	12072-K4	19 mm	12072-K19	T45	12073-K45
5 mm	12072-K5	TX-Star T		T50	12073-K50
6 mm	12072-K6	1/2", 78 mm long		T55	12073-K55
8 mm	12072-K8	T20	12073-K20	T60	12073-K60
10 mm	12072-K10	T25	12073-K25		

Item	Drive	pcs	Art. No.
TX-Star and Hex Impact Socket Set in Foam	1/2"	18	7150



Drive Shaft Socket Set in Foam 1/3, 12 pcs., 1/2"

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.
- for hexagon screw connections in propshafts

Content		34 mm	4803-34	Spline	
bi-hexagon		36 mm	4803-36	1/2", 78 mm long	
1/2", deep		Hexagon		M14	12071-K14
24 mm	4803-24	1/2", 40 mm long		M16	12071-K16
27 mm	4803-27	14 mm	12022-K14	M18	12071-K18
30 mm	4803-30	17 mm	12022-K17		
32 mm	4803-32	19 mm	12022-K19		

Item	Drive	pcs	Art. No.
Socket Set in Foam	1/2"	12	7148

Impact Socket Set in Foam 1/3, 16 pcs., 3/4"

Content		27 mm	22600-K27	38 mm	22600-K38
hexagon		30 mm	22600-K30	40 mm	22600-K40
3/4", standard		32 mm	22600-K32	41 mm	22600-K41
19 mm	22600-K19	33 mm	22600-K33	46 mm	22600-K46
21 mm	22600-K21	34 mm	22600-K34	50 mm	22600-K50
22 mm	22600-K22	35 mm	22600-K35		
24 mm	22600-K24	36 mm	22600-K36		

Item	Drive	pcs	Art. No.
Impact Socket Set in Foam	3/4"	16	7140

Impact Bit Set in Foam 1/3, 16 pcs., 3/4+1"

Content		Hexagon		22 mm bit, 110 mm	
TX-Star E		22 mm bit, 110 mm		T60	*4716-T60*
22 mm bit, 110 mm		17 mm	*4716-K17*	T70	*4716-T70*
E18	*4716-E18*	19 mm	*4716-K19*	T80	*4716-T80*
E20	*4716-E20*	22 mm	*4716-K22*	T90	*4716-T90*
E22	*4716-E22*	24 mm	*4716-K24*	T100	*4716-T100*
E24	*4716-E24*	TX-Star T			

Item	Drive	pcs	Art. No.
Impact Bit Set in Foam	3/4+1"	16	7147

Drive Tools / Accessory, 3/4"	
Bit Holder, CrMo., 3/4"	*4716-AD34*
Drive Tools / Accessory, 1"	
Bit Holder, CrMo, 1"	*4716-AD1*

Screwdriver and Key Set in Foam 2/3, xcess performance, 22 pcs.

- go-through hexagon blade, striking cap and bolster on slotted 6.5 / 8 mm and PH2 / PH3
- screwdrivers manufactured in Germany

Content		T27x115 mm	49327	8x150 mm	49780
TX-Star T		T30x115 mm	49330	Cross Slot PH	
Screwdriver		Plain Slot		Screwdriver	
T10x80 mm	49310	Screwdriver		PH1x80 mm	49801
T15x80 mm	49315	3x75 mm	49730	PH2x100 mm	49802
T20x100 mm	49320	5.5x125 mm	49755	PH3x150 mm	49803
T25x100 mm	49325	6.5x125 mm	49765		

Item	pcs	Art. No.
Screwdriver Set in Foam	22	7252

Miscellaneous Tools	
Ball End Key Set, 9 pcs., long, hex 1.5-10 mm	38002

Screwdriver and Key Set in Foam 3/3, xcess performance, 74 pcs.

- go-through hexagon blade, striking cap and bolster on slotted 6.5 / 8 mm and PH2 / PH3
- screwdrivers manufactured in Germany

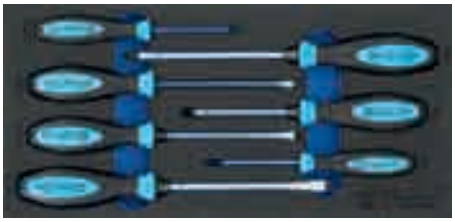
Content	Profile	Size	Blade Length	Art. No.
Screwdriver	Plain Slot	3 mm	75 mm	49730
Screwdriver	Plain Slot	5.5 mm	125 mm	49755
Screwdriver	Plain Slot	6.5 mm	125 mm	49765
Screwdriver	Plain Slot	8 mm	150 mm	49780
Screwdriver	Cross Slot PH	PH1	80 mm	49801
Screwdriver	Cross Slot PH	PH2	100 mm	49802
Screwdriver	Cross Slot PH	PH3	150 mm	49803
Screwdriver	TX-Star T	T10	80 mm	49310
Screwdriver	TX-Star T	T15	80 mm	49315
Screwdriver	TX-Star T	T20	100 mm	49320
Screwdriver	TX-Star T	T25	100 mm	49325
Screwdriver	TX-Star T	T27	115 mm	49327
Screwdriver	TX-Star T	T30	115 mm	49330
Screwdriver	TX-Star T	T40	115 mm	49340

Item	pcs	Art. No.
Screwdriver Set in Foam	74	7251

Drive Tools / Accessory, 1/4"	
Flexible Screwdriver, for 1/4" bits, 325 mm	49921
Micro Bit Reversible Ratchet, with finger disc	1221
Bit Assortment, 33 pcs., 1/4", 25 mm	*Y7251*
Hose Clamp Bit Socket Set, 4 pcs., 1/4" hex, hexagon 6-7-8-10 mm	16921
Bit Holder, 1/4", for 1/4" bits	20624
Adapter, 1/4" square x 1/4" hexagon	*20630*
Magnetic Holder, for 1/4" bits, 60 mm	21260
Miscellaneous Tools	
Ball End Key Set, 9 pcs., long, hex 1.5-10 mm	38002
Key Set, 9 pcs., long, TX-Star T10-50	38003

Screwdriver Set in Foam 1/3, xcess performance, 7 pcs., plain + cross slot

- go-through hexagon blade, striking cap and bolster on slotted 6.5 / 8 mm and PH2 / PH3
- screwdrivers manufactured in Germany

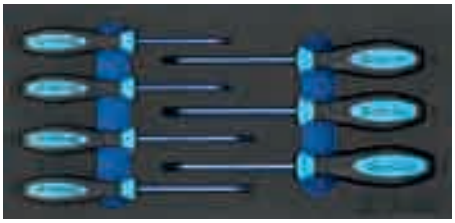


Content				Screwdriver	
Plain Slot			5.5x125 mm	49755	
Screwdriver			6.5x125 mm	49765	PH1x80 mm 49801
			8x150 mm	49780	PH2x100 mm 49802
3x75 mm	49730	Cross Slot PH			PH3x150 mm 49803

Item	pcs	Art. No.
Screwdriver Set in Foam	7	7257

Screwdriver Set in Foam 1/3, xcess performance, 7 pcs., TX-Star

- screwdrivers manufactured in Germany



Content					
TX-Star T			T15x80 mm	49315	T30x115 mm 49330
Screwdriver			T20x100 mm	49320	T40x115 mm 49340
			T25x100 mm	49325	
T10x80 mm	49310		T27x115 mm	49327	

Item	pcs	Art. No.
Screwdriver Set in Foam	7	7253

1

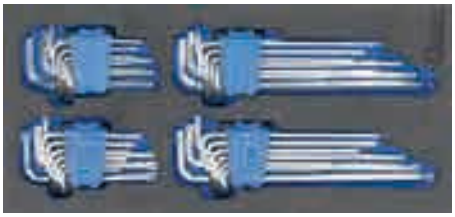
Screwdriver and Key Set in Foam 2/3, 15 pcs.

- go-through hexagon blade, striking cap and bolster on slotted 6.5 / 8 mm and PH2 / PH3
- magnetic tips

Content		T30x100 mm	11933-30	8.0x150 mm	11970-80
TX-Star T		T40x125 mm	11933-40	Cross Slot PH	
Screwdriver		Plain Slot		Screwdriver	
T10x100 mm	11933-10	Screwdriver		PH1x75 mm	11988-01
T15x100 mm	11933-15	3.0x75 mm	11977-30	PH2x100 mm	11980-02
T20x100 mm	11933-20	4.0x100 mm	11977-40	PH3x150 mm	11980-03
T25x100 mm	11933-25	5.5x125 mm	11977-55		
T27x100 mm	11933-27	6.5x125 mm	11970-65		

Item	pcs	Art. No.
Screwdriver Set in Foam	15	7260

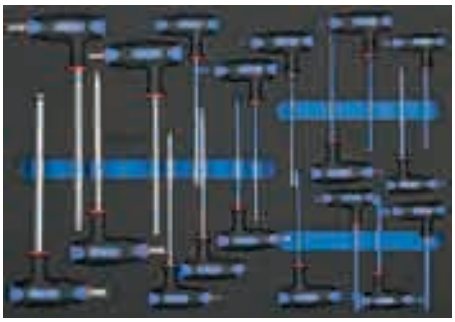
Key Set in Foam 1/3, 36 pcs.



Content	Profile	Size	pcs	Art. No.
Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	1120-01
Key Set	TX-Star tamperproof	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1120-02
Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	1121-1
Key Set	TX-Star T	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121-2

Item	pcs	Art. No.
Key Set in Foam	36	7264

T-Handle Key Set in Foam 3/3, 18 pcs., hex + tx-star



Content		6x160 mm	11192-6	T20x120 mm	11193-20
Hexagon		7x170 mm	11192-7	T25x130 mm	11193-25
T-Handle Key		8x175 mm	11192-8	T27x140 mm	11193-27
2x90 mm	11192-2	10x200 mm	11192-10	T30x150 mm	11193-30
2.5x100 mm	11192-2.5	TX-Star T		T40x160 mm	11193-40
3x115 mm	11192-3	T-Handle Key		T45x175 mm	11193-45
4x120 mm	11192-4	T10x100 mm	11193-10	T50x200 mm	11193-50
5x140 mm	11192-5	T15x115 mm	11193-15		

Item	pcs	Art. No.
T-Handle Key Set in Foam	18	7119

Ratchet Spanner Set in Foam 1/3, xcess perf., reversible, 12 pcs., 8-19 mm

- fine toothing enables smaller swivel angle than standard (72 teeth)
- ideal for working in very confined spaces
- 8 + 9 mm with 90 teeth (4° swivel angle)
- 10-19 mm with 120 teeth (3° swivel angle)

Content		10 mm	4160-10	15 mm	4160-15
Spanners		11 mm	4160-11	16 mm	4160-16
Ratchet Wrench		12 mm	4160-12	17 mm	4160-17
8 mm	4160-8	13 mm	4160-13	18 mm	4160-18
9 mm	4160-9	14 mm	4160-14	19 mm	4160-19

Item	pcs	Art. No.
Ratchet Spanner Set in Foam	12	7360

Ratchet Spanner Set in Foam 1/3, xcess performance, 12 pcs., 8-19 mm

- fine toothing enables smaller swivel angle than standard (72 teeth)
- ideal for working in very confined spaces
- 8 + 9 mm with 90 teeth (4° swivel angle)
- 10-19 mm with 120 teeth (3° swivel angle)

Content		10 mm	4180-10	15 mm	4180-15
Spanners		11 mm	4180-11	16 mm	4180-16
Ratchet Wrench		12 mm	4180-12	17 mm	4180-17
8 mm	4180-8	13 mm	4180-13	18 mm	4180-18
9 mm	4180-9	14 mm	4180-14	19 mm	4180-19

Item	pcs	Art. No.
Ratchet Spanner Set in Foam	12	7380

Ratchet Spanner Set in Foam 1/3, 14 pcs., 6-19 mm

Content		9 mm	4120-09	15 mm	4120-15
Spanners		10 mm	4120-10	16 mm	4120-16
Ratchet Wrench		11 mm	4120-11	17 mm	4120-17
6 mm	4120-06	12 mm	4120-12	18 mm	4120-18
7 mm	4120-07	13 mm	4120-13	19 mm	4120-19
8 mm	4120-08	14 mm	4120-14		

Item	pcs	Art. No.
Ratchet Spanner Set in Foam	14	7314

Ratchet/Combination Spanners in Foam 3/3, xcess performance, 37 pcs.

Content		17 mm	4425-17	Ratchet Wrench	
Spanners		18 mm	4425-18	8 mm	4160-8
Combination Spanner		19 mm	4425-19	9 mm	4160-9
6 mm	4425-6	20 mm	4425-20	10 mm	4160-10
7 mm	4425-7	21 mm	4425-21	11 mm	4160-11
8 mm	4425-8	22 mm	4425-22	12 mm	4160-12
9 mm	4425-9	23 mm	4425-23	13 mm	4160-13
10 mm	4425-10	24 mm	4425-24	14 mm	4160-14
11 mm	4425-11	25 mm	4425-25	15 mm	4160-15
12 mm	4425-12	26 mm	4425-26	16 mm	4160-16
13 mm	4425-13	27 mm	4425-27	17 mm	4160-17
14 mm	4425-14	28 mm	4425-28	18 mm	4160-18
15 mm	4425-15	30 mm	4425-30	19 mm	4160-19
16 mm	4425-16	32 mm	4425-32		

Item	pcs	Art. No.
Ratchet/Combination Spanners in Foam	37	7364

Combination Spanner Set in Foam 2/3, xcess performance, 25 pcs., 6-32 mm

Content		13 mm	4425-13	23 mm	4425-23
Spanners		14 mm	4425-14	24 mm	4425-24
Combination Spanner		15 mm	4425-15	25 mm	4425-25
6 mm	4425-6	16 mm	4425-16	26 mm	4425-26
7 mm	4425-7	17 mm	4425-17	27 mm	4425-27
8 mm	4425-8	18 mm	4425-18	28 mm	4425-28
9 mm	4425-9	19 mm	4425-19	30 mm	4425-30
10 mm	4425-10	20 mm	4425-20	32 mm	4425-32
11 mm	4425-11	21 mm	4425-21		
12 mm	4425-12	22 mm	4425-22		

Item	pcs	Art. No.
Combination Spanner Set in Foam	25	7344

Combination and Ring Spanner Set in Foam 3/3, 31 pcs., 6-32 mm

Content		15 mm	2136-15	6x7 mm	2140-6x7
Spanners		16 mm	2136-16	8x9 mm	2140-8x9
Combination Spanner		17 mm	2136-17	10x11 mm	2140-10x11
6 mm	2136-6	18 mm	2136-18	12x13 mm	2140-12x13
7 mm	2136-7	19 mm	2136-19	14x15 mm	2140-14x15
8 mm	2136-8	20 mm	2136-20	16x17 mm	2140-16x17
9 mm	2136-9	21 mm	2136-21	18x19 mm	2140-18x19
10 mm	2136-10	22 mm	2136-22	20x22 mm	2140-20x22
11 mm	2136-11	24 mm	2136-24	21x23 mm	2140-21x23
12 mm	2136-12	27 mm	2136-27	24x27 mm	2140-24x27
13 mm	2136-13	30 mm	2136-30		
14 mm	2136-14	32 mm	2136-32		

Item	pcs	Art. No.
Combination Spanners and Ring Spanners in Foam	31	7303

Combination Spanner Set Nr. 2135 in Foam 2/3, 25 pcs., 6-32 mm

Content		13 mm	2136-13	23 mm	2136-23
Spanners		14 mm	2136-14	24 mm	2136-24
Combination Spanner		15 mm	2136-15	25 mm	2136-25
6 mm	2136-6	16 mm	2136-16	26 mm	2136-26
7 mm	2136-7	17 mm	2136-17	27 mm	2136-27
8 mm	2136-8	18 mm	2136-18	28 mm	2136-28
9 mm	2136-9	19 mm	2136-19	30 mm	2136-30
10 mm	2136-10	20 mm	2136-20	32 mm	2136-32
11 mm	2136-11	21 mm	2136-21		
12 mm	2136-12	22 mm	2136-22		

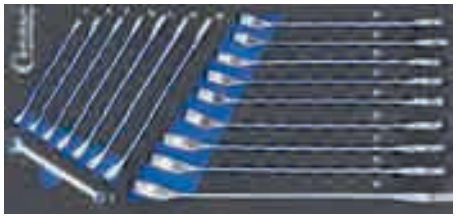
Item	pcs	Art. No.
Combination Spanners in Foam	25	7300

Combination Spanner Set Nr. 35-25T in Foam 2/3, 25 pcs., 6-32 mm

Content		13 mm	3525-13	23 mm	3525-23
Combination Spanner		14 mm	3525-14	24 mm	3525-24
chrome plated		15 mm	3525-15	25 mm	3525-25
6 mm	3525-6	16 mm	3525-16	26 mm	3525-26
7 mm	3525-7	17 mm	3525-17	27 mm	3525-27
8 mm	3525-8	18 mm	3525-18	28 mm	3525-28
9 mm	3525-9	19 mm	3525-19	30 mm	3525-30
10 mm	3525-10	20 mm	3525-20	32 mm	3525-32
11 mm	3525-11	21 mm	3525-21		
12 mm	3525-12	22 mm	3525-22		

Item	pcs	Art. No.
Combination Spanners in Foam	25	7310

Combination Spanners Nr. 2135-17T in Foam, 17 pcs., 6-24 mm



Content		8 mm	2136-8	13 mm	2136-13	18 mm	2136-18
Spanners		9 mm	2136-9	14 mm	2136-14	19 mm	2136-19
Combination Spanner		10 mm	2136-10	15 mm	2136-15	21 mm	2136-21
6 mm	2136-6	11 mm	2136-11	16 mm	2136-16	22 mm	2136-22
7 mm	2136-7	12 mm	2136-12	17 mm	2136-17	24 mm	2136-24

Item	pcs	Art. No.
Combination Spanners in Foam	17	7320

Combination Spanners Nr. 35-17T in Foam, 17 pcs., 6-24 mm

Content					
Combination Spanner		10 mm	3525-10	17 mm	3525-17
chrome plated		11 mm	3525-11	18 mm	3525-18
6 mm	3525-6	12 mm	3525-12	19 mm	3525-19
7 mm	3525-7	13 mm	3525-13	21 mm	3525-21
8 mm	3525-8	14 mm	3525-14	22 mm	3525-22
9 mm	3525-9	15 mm	3525-15	24 mm	3525-24
		16 mm	3525-16		

Item	pcs	Art. No.
Combination Spanners in Foam	17	7321

Open End 2130-8T + Ring Spanners 2140-10T in Foam 2/3, 18 pcs.

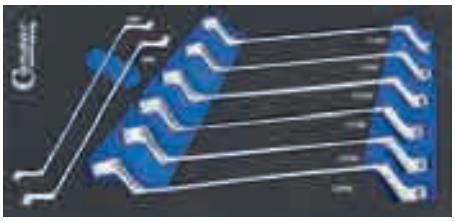
Content					
Ring Spanners		16x17 mm	2140-16x17	8x9 mm	*2130-8x9*
satin finish, deep offset		18x19 mm	2140-18x19	10x11 mm	*2130-10x11*
6x7 mm	2140-6x7	20x22 mm	2140-20x22	12x13 mm	*2130-12x13*
8x9 mm	2140-8x9	21x23 mm	2140-21x23	14x15 mm	*2130-14x15*
10x11 mm	2140-10x11	24x27 mm	2140-24x27	16x17 mm	*2130-16x17*
12x13 mm	2140-12x13	Open Ended Spanners		18x19 mm	*2130-18x19*
14x15 mm	2140-14x15	satin finish		20x22 mm	*2130-20x22*
		6x7 mm	*2130-6x7*		

Item	pcs	Art. No.
Open End + Ring Spanners in Foam	18	7330

Ring Spanners Nr. 2140-8T in Foam 1/3, 8 pcs., 6-22 mm

Content					
Ring Spanners		8x9 mm	2140-8x9	16x17 mm	2140-16x17
satin finish, deep offset		10x11 mm	2140-10x11	18x19 mm	2140-18x19
6x7 mm	2140-6x7	12x13 mm	2140-12x13	20x22 mm	2140-20x22
		14x15 mm	2140-14x15		

Item	pcs	Art. No.
Ring Spanners in Foam	8	7340



Ring Spanners Nr. 10-8T in Foam 1/3, 8 pcs., 6-22 mm

Content					
Ring Spanners		8x9 mm	1012-8x9	16x17 mm	1012-16x17
deep offset		10x11 mm	1012-10x11	18x19 mm	1012-18x19
6x7 mm	1012-6x7	12x13 mm	1012-12x13	20x22 mm	1012-20x22
		14x15 mm	1012-14x15		

Item	pcs	Art. No.
Ring Spanners in Foam	8	7341

Combination Spanners Nr. 4410 + C-type 40/5 in Foam 1/3, 15 pcs.

Content					
Combination Spanner		14 mm	*4410-14*	C-shape	
short		15 mm	*4410-15*	10x11 mm	*4050-10x11*
10 mm	4410-10	16 mm	*4410-16*	12x13 mm	*4050-12x13*
11 mm	*4410-11*	17 mm	4410-17	14x15 mm	*4050-14x15*
12 mm	*4410-12*	18 mm	*4410-18*	16x17 mm	*4050-16x17*
13 mm	4410-13	19 mm	4410-19	18x19 mm	*4050-18x19*
		Obstruction Ring Spanners			

Item	pcs	Art. No.
Combination and C-type Spanners in Foam	15	7315

Crow Foot Wrench Set in Foam 2/3, xcess perf., 32 pcs., 3/8"+1/2"+3/4"

Content					
hexagon		18 mm	*38-38-18*	28 mm	*38-12-28*
10 mm	*38-38-10*	19 mm	*38-38-19*	30 mm	*38-12-30*
11 mm	*38-38-11*	20 mm	*38-12-20*	32 mm	*38-12-32*
12 mm	*38-38-12*	21 mm	*38-12-21*	33 mm	*38-12-33*
13 mm	*38-38-13*	22 mm	*38-12-22*	36 mm	*38-12-36*
14 mm	*38-38-14*	23 mm	*38-12-23*	38 mm	*38-34-38*
15 mm	*38-38-15*	24 mm	*38-12-24*	41 mm	*38-34-41*
16 mm	*38-38-16*	25 mm	*38-12-25*	46 mm	*38-34-46*
17 mm	*38-38-17*	26 mm	*38-12-26*	50 mm	*38-34-50*
		27 mm	*38-12-27*		

Item	Drive	pcs	Art. No.
Crow Foot Wrench Set in Foam	3/8+1/2+3/4"	32	7338

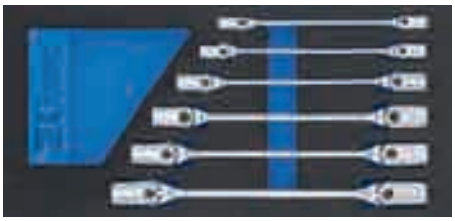
Drive Tools / Accessory, 1/2"	
Swivel Handle, 1/2", 385 mm	*38-GG*
Extension Bar, 1/2", 125 mm	21900
Socket Converter, 1/2" F x 3/8" M	20603
Socket Converter, 1/2" F x 3/4" M	20605
Drive Tools / Accessory, 3/4"	
Extension Bar, 3/4", 100 mm	22500

Double Flexible Wrench Set in Foam 3/3, xcess perf., 17 pcs., hexagon

Content					
hexagon		18x19 mm	*132-18x19*	6x7 mm	*131-6x7*
Double Flex. Head Wrench		20x22 mm	*132-20x22*	8x10 mm	*131-8x10*
8x9 mm	*132-8x9*	21x23 mm	*132-21x23*	12x14 mm	*131-12x14*
10x11 mm	*132-10x11*	24x27 mm	*132-24x27*	16x17 mm	*131-16x17*
12x13 mm	*132-12x13*	30x32 mm	*132-30x32*	18x19 mm	*131-18x19*
14x15 mm	*132-14x15*	Hexagon		22x24 mm	*131-22x24*
16x17 mm	*132-16x17*	Double Flex. Head Wrench			
		4x5 mm	*131-4x5*		

Item	Profile	pcs	Art. No.
Double Flexible Wrench Set in Foam	hexagon, Hexagon	17	7132

Double Flexible Wrench Set in Foam 1/3, xcess perf., 6 pcs., hex 8-19 mm



Content					
hexagon		8x9 mm	*132-8x9*	14x15 mm	*132-14x15*
Double Flex. Head Wrench		10x11 mm	*132-10x11*	16x17 mm	*132-16x17*
		12x13 mm	*132-12x13*	18x19 mm	*132-18x19*

Item	Profile	pcs	Art. No.
Double Flexible Wrench Set in Foam	hexagon	6	7130

Double Flexible Wrench Set in Foam 1/3, xcess perf., 6 pcs., tx-star T20-90

Content					
TX-Star T		T20x25	*131-20x25*	T50x55	*131-50x55*
Double Flex. Head Wrench		T27x30	*131-27x30*	T60x70	*131-60x70*
		T40x45	*131-40x45*	T80x90	*131-80x90*

Item	Profile	pcs	Art. No.
Double Flexible Wrench Set in Foam	TX-Star T	6	7131

Hammer and Punch Set in Foam 3/3, xcess performance, 19 pcs.

Content	Art. No.
Pin Punch, soft grip, ø 3 mm	2963
Pin Punch, soft grip, ø 4 mm	2964
Pin Punch, soft grip, ø 5 mm	2965
Pin Punch, soft grip, ø 6 mm	2966
Pin Punch, soft grip, ø 7 mm	2967
Pin Punch, soft grip, ø 8 mm	2968
Centre Punch, soft grip, ø 4 mm	2974
Cross Chisel, soft grip, 5 x 10 mm	2975
Flat Chisel, soft grip, 16 x 10 mm	2976
Flat Chisel, soft grip, 20 x 14 mm	2977
Machinist Hammer, with fibreglass handle, 500 g	2905
Stoning Hammer, 1.25 kg	2946
Pry Bar, 200 x 15 mm	8261
Chisel Scraper, 20x180 mm	4705-225
Chisel Scraper, 32x230 mm	4705-325
Glas Scraper, blade 38 mm	5937
Scraper Blades, 5 pcs.	5937-KL
Retractable Knife, metal slides, 2-component handle, 18 mm	211EX
Blade Strips, 18 mm	211E

Item	pcs	Art. No.
Hammer and Punch Set in Foam	19	7291

Hammer and Punch Set in Foam 1/3, 10 pcs.

Content	Art. No.
Parallel Pin Punch, 3x150 mm	*7290-6593*
Parallel Pin Punch, 4x150 mm	*7290-6594*
Parallel Pin Punch, 5x150 mm	*7290-6595*
Parallel Pin Punch, 6x150 mm	*7290-6596*
Parallel Pin Punch, 7x150 mm	*7290-6597*
Parallel Pin Punch, 8x150 mm	*7290-6598*
Center Punch, 4x120 mm	*7290-K*
Chisel, 24x200 mm	*7290-M*
German Pattern Machinist Hammer, 500 g	55EX-500
Retractable Knife, metal slides, 2-component handle, 18 mm	211EX

Item	pcs	Art. No.
Hammer and Punch Set in Foam	10	7290

Workshop Files Set in Foam 1/3, 200 mm, 5 pcs.

- versatile and precise – 5 popular sizes for metal working
- cut 2 – ideal for universal application
- high removal – extremely long-lasting due to specially hardened steel
- non-slip handle with hanging hole
- total length: 315 mm

Content	Description	Length	Art. No.
Workshop File	flat (Form B)	200 mm	*5950-B*
Workshop File	halfround (Form E)	200 mm	*5950-E*
Workshop File	round (Form F)	200 mm	*5950-F*
Workshop File	square (Form D)	200 mm	*5950-D*
Workshop File	triangular (Form C)	200 mm	*5950-C*

Item	pcs	Art. No.
Workshop Files Set in Foam, DIN 7261	5	7295

1

Wheel-Tire Tool Set in Foam 3/3, with torque wrench No. 8122-3

Content	Art. No.
Dead Blow Bumping Hammer	8241
Telescopic Pry Bar with Adjustable Jaw, 610-940 mm	5463
Tire Lever with Protector, 535 mm	8263
Pry Bar, 200 x 11 mm	8260
Pry Bar, 450 x 18 mm	8262
Tire Valve Mounting Tool, 2 in 1	8207
Chisel, plastic, 22 mm	3706-22
Wheel Balancing Weight Pliers, 240 mm	294
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 17 mm	1003-17
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 19 mm	1003-19
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 21 mm	1003-21
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 22 mm	1003-22
Wheel Nut Socket, 1/2", 85 mm, 17 mm, MB rim locks	4783
Torque Wrench, 1/2", 40-200 Nm	8122-3

Item	pcs	Art. No.
Wheel-Tyre Tool Set in Foam	14	7415

Wheel-Tire Tool Set in Foam 3/3, with ratchet No. 1208-4, 14 pcs.

Content	Art. No.
Dead Blow Bumping Hammer	8241
Telescopic Pry Bar with Adjustable Jaw, 610-940 mm	5463
Tire Lever with Protector, 535 mm	8263
Pry Bar, 200 x 11 mm	8260
Pry Bar, 450 x 18 mm	8262
Tire Valve Mounting Tool, 2 in 1	8207
Chisel, plastic, 22 mm	3706-22
Wheel Balancing Weight Pliers, 240 mm	294
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 17 mm	1003-17
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 19 mm	1003-19
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 21 mm	1003-21
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 22 mm	1003-22
Wheel Nut Socket, 1/2", 85 mm, 17 mm, MB rim locks	4783
Telescopic Reversible Ratchet, 1/2", 460-600 mm	1208-4

Item	pcs	Art. No.
Wheel-Tyre Tool Set in Foam	14	7414

Pliers Set in Foam 2/3, xcess performance, 10 pcs.

- pliers manufactured in Germany (except Nr. 4793)

Content	Description	Tips	Length	Art. No.
Circlip Pliers	for external circlips	straight type	175 mm	41150
Circlip Pliers	for external circlips	bent	175 mm	41151
Circlip Pliers	for internal circlips	straight type	175 mm	41152
Circlip Pliers	for internal circlips	bent	175 mm	41153
Side Cutter			160 mm	41170
Combination Pliers			180 mm	41185
Long Nose Pliers			200 mm	41176
Long Nose Pliers			200 mm	41180
Water Pump Pliers			250 mm	41191
Power Grip Plier, 250 mm			250 mm	4793

Item	pcs	Art. No.
Pliers in Foam	10	7240

Pliers Set in Foam 1/3, xcess performance, 4 pcs.

- pliers manufactured in Germany

Content	Length	Art. No.
Side Cutter	160 mm	41170
Combination Pliers	180 mm	41185
Long Nose Pliers	200 mm	41176
Water Pump Pliers	250 mm	41191

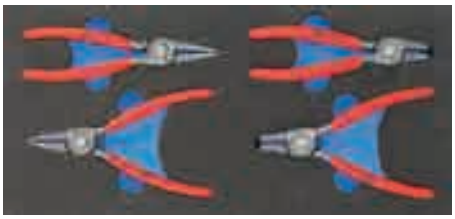
Item	pcs	Art. No.
Pliers in Foam	4	7244

Circlip Pliers in Foam 1/3, xcess performance, 4 pcs., 175 mm

- pliers manufactured in Germany

Content	Description	Tips	Length	Art. No.
Circlip Pliers	for external circlips	straight type	175 mm	41150
Circlip Pliers	for external circlips	bent	175 mm	41151
Circlip Pliers	for internal circlips	straight type	175 mm	41152
Circlip Pliers	for internal circlips	bent	175 mm	41153

Item	pcs	Art. No.
Circlip Pliers in Foam	4	7248



Pliers Set in Foam 2/3, 10 pcs.

Content	Length	Art. No.
Water Pump Pliers	175 mm	2721
Water Pump Pliers	240 mm	2722
Long Nose Pliers	200 mm	1176
Bent Nose Pliers	200 mm	1180
Combination Pliers	180 mm	1185
Side Cutter	160 mm	1170
Heavy-Duty Diagonal Cutter	250 mm	1172
Curved Jaw Grip Pliers	250 mm	287-250

Item	pcs	Art. No.
Pliers in Foam	8	7271

Pliers Set in Foam 1/3, 4 pcs.

Content	Length	Art. No.
Water Pump Pliers	240 mm	2722
Long Nose Pliers	200 mm	1176
Combination Pliers	180 mm	1185
Side Cutter	160 mm	1170

Item	pcs	Art. No.
Pliers in Foam	4	7270

Pliers Nr. 1183 + 5730 in Foam 1/3, 4 pcs.

Content	Description	Length	Art. No.
Long Nose Pliers	straight type	280 mm	1177
Long Nose Pliers	45° offset	275 mm	1181
Long Nose Pliers	90° offset	260 mm	1182
Spark Plug Cover Pliers	ring-shaped jaw	280 mm	5730

Item	pcs	Art. No.
Pliers in Foam	4	7274

Circlip Pliers in Foam 2/3, 8 pcs., 175 + 225 mm

Content	Description	Tips	Length	Art. No.
Circlip Pliers	for internal circlips	straight type	175 mm	*5781-SI*
Circlip Pliers	for internal circlips	straight type	225 mm	*5782-SI*
Circlip Pliers	for external circlips	straight type	175 mm	*5781-SA*
Circlip Pliers	for external circlips	straight type	225 mm	*5782-SA*
Circlip Pliers	for internal circlips	bent	175 mm	*5781-BI*
Circlip Pliers	for internal circlips	bent	225 mm	*5782-BI*
Circlip Pliers	for external circlips	bent	175 mm	*5781-BA*
Circlip Pliers	for external circlips	bent	225 mm	*5782-BA*

Item	pcs	Art. No.
Circlip Pliers in Foam	8	7278

Crimping Pliers in Foam 1/3, 7 pcs.

- crimping pliers with adjustable pressure, length 215 mm
- with 5 interchangeable jaw pairs
- with ratchet function for more convenient crimping
- with forced locking for secure pressing to form closure

Content	Description	Art. No.
Automatic Wire Stripper	for wires ø 0.13 - 6.0 mm²	289
Ratchet Crimping Pliers	with ratchet function and crush guard	*3049-Z*
Crimping Jaws	for insulated terminals ø 0.5 - 6.0 mm	*3049-A*
Crimping Jaws	for non-insulated terminals ø 0.5 - 10.0 mm	*3049-B*
Crimping Jaws	for non-insulated terminals with open crimp grip ø 0.5 - 6.0 mm (width 4.8 + 6.3 mm)	*3049-C*
Crimping Jaws	for BNC / TNC coaxial plugs RG 58, RG 59, RG 62E, RG 71	*3049-D*
Crimping Jaws	for pin terminals with and without insulation ø 6.0, 10.0 and 16.0 mm	*3049-F*

Item	pcs	Art. No.
Crimping Pliers in Foam	7	7227

Terminal Release Tool Set in Foam 2/3, 23 pcs.

- for safe terminal releasing
- avoids damage to contact and housing
- tool forks press the barbed hooks into connecting terminals, so that cable with plug can be removed
- universal set, suitable for all common applications

Content		Terminal Release, needle type			
Terminal Release, round type		diverse	*5023-07*	BMW, Ford, MB, Opel, Porsche, VW	*5023-03*
BMW, MB, Opel, Porsche, VW	*5023-10*	Ford, MB	*5023-08*	Ford	*5023-04*
BMW, Jag., MB, Porsche, VW	*5023-11*	Ford, MB	*5023-09*	Opel, VW	*5023-05*
BMW, MB, Opel, VW	*5023-12*	Ford, Jag., MB, Opel, Porsche, VW	*5023-16*	diverse	*5023-06*
Terminal Release, hook type		diverse	*5023-19*	Ford	*5023-14*
Ford, Porsche, Jag.	*5023-13*	MB	*5023-21*	BMW, Ford, MB, Opel, VW	*5023-15*
Honda, Opel, Toyota, VW	*5023-23*	Terminal Release, fork type		BMW	*5023-17*
		diverse	*5023-01*	MB	*5023-18*
		MB	*5023-02*	diverse	*5023-20*
				Opel, Renault, VW	*5023-22*

Item	pcs	Art. No.
Terminal Release Tool Set in Foam	23	7223

Universal Puller Set in Foam 2/3, xcess performance, 13 pcs.

- 2 and 3 arms, narrow hooks for confined spaces
- spread: ø 40 - 125 mm
- reach: 100, 210, 255 mm
- 2 yokes, 2 arm and 3 arm
- 2 spindles with fine thread, 17 mm hexagon drive
- 9 hooks

Content	Throat Depth	Length	Spread	Art. No.
Puller Arm	100 mm			*3490-100*
Puller Arm	210 mm			*3490-210*
Puller Arm	255 mm			*3490-255*
Spindle, fine pitch thread		160 mm		*3490-160*
Spindle, fine pitch thread		270 mm		*3490-270*
Yoke, 2-arm			40 - 125 mm	*3490-2*
Yoke, 3-arm			40 - 125 mm	*3490-3*

Item	pcs	Art. No.
Universal Puller Set	13	7490

Brake Caliper Wind Back Tool in Foam 2/3, 53 pcs.

- universal assortment with 39 adapters, suitable for almost all popular vehicles
- for left and right turning brake pistons
- mainly suitable for rear axle disk brake systems
- includes stepped adapter plate for front axles
- 2 hexagon keys 6 + 7 mm
- 2 pin punches for retaining pin on brake pad spring (Mercedes and Opel)
- 2 open thrust plates for badly worn out brake pads and limited working space

Content		adapter 8	*359-A10*	adapter N	*359-A29*
Spindles		adapter 9	*359-A11*	adapter P	*359-A30*
right-turn	359-SPR	adapter A	*359-A12*	adapter P1	*359-A31*
left-turn	359-SPL	adapter A1	*359-A13*	adapter R	*359-A32*
Reaction Plates		adapter B	*359-A14*	adapter R1	*359-A33*
plate 1	*359-DP1*	adapter B1	*359-A15*	adapter S	*359-A34*
plate 0-Disc	*359-DP2*	adapter B2	*359-A16*	adapter Z (A)	*359-A35*
plate 11	*359-DP3*	adapter C	*359-A17*	adapter T	*359-A36*
plate 12	*359-DP4*	adapter D	*359-A18*	adapter V	*359-A37*
Wind Back Adapters		adapter E	*359-A19*	adapter Q	*359-A38*
adapter G1	359-A1	adapter F	*359-A20*	adapter VW	359-A39
adapter IV	359-A2	adapter F1	*359-A21*	Parallel Pin Punch	
adapter 0	*359-A3*	adapter F2	*359-A22*	3.0 mm	*359-PS3*
adapter 2	*359-A4*	adapter G (F)	*359-A23*	5.5 mm	*359-PS5*
adapter 3	*359-A5*	adapter J	*359-A24*	Hex Keys	
adapter 4	*359-A6*	adapter K	*359-A25*	6 mm	*359-SK6*
adapter 5	*359-A7*	adapter K1	*359-A26*	7 mm	*359-SK7*
adapter 6	*359-A8*	adapter K2	*359-A27*		
adapter 7	*359-A9*	adapter M	*359-A28*		

Item	pcs	Art. No.
Brake Caliper Wind Back Tool in Foam	53	7453

Specialist Sockets, 1/2"	
Socket, pentagon 10 mm	*4773-01*
Socket, pentagon 14 mm	*4773-02*
Socket, pentagon 19 mm	*4773-03*
Socket, tx-star T45	*4773-04*

Brake Service Tool Set in Foam 2/3, 11 pcs.

Content	Art. No.
Brake Caliper Wire Brush, 225 mm	404
Brake Caliper Brass Brush, 225 mm	405
Specialist 4-Point Brake Caliper File	4838
Brake Disc Caliper, 60 mm	1375
Vise-Grip® Jaw Grip Plier 4LW 4"	41025
Flare Nut Spanner, 8x9 mm	84-8x9
Flare Nut Spanner, 10x11 mm	84-10x11
Flare Nut Spanner, 12x13 mm	84-12x13
Flare Nut Spanner, 14x17 mm	84-14x17
Parallel Pin Punch, ø 4 mm, 175 mm long	4658
Parallel Pin Punch, ø 6 mm, offset tip, 175 mm long	4659

Item	pcs	Art. No.
Brake Service Tool Set in Foam	11	7450

Brake Service and Caliper Wind-Back Tool Set in Foam 2/3, 17 pcs.

Content	Art. No.
Universal Brake Caliper Wind Back Tool 3-in-1	4680
Brake Caliper Wire Brush, 225 mm	404
Brake Caliper Brass Brush, 225 mm	405
Specialist 4-Point Brake Caliper File	4838
Brake Disc Caliper, 60 mm	1375
Vise-Grip® Jaw Grip Plier 4LW 4"	41025
Flare Nut Spanner, 8x9 mm	84-8x9
Flare Nut Spanner, 10x11 mm	84-10x11
Flare Nut Spanner, 12x13 mm	84-12x13
Flare Nut Spanner, 14x17 mm	84-14x17
Parallel Pin Punch, ø 4 mm, 175 mm long	4658
Parallel Pin Punch, ø 6 mm, offset tip, 175 mm long	4659

Item	pcs	Art. No.
Brake Service and Caliper Wind-Back Tool Set in Foam	17	7451

Brake Pipe Flaring Tool in Foam 1/3, 8 pcs.

Content	Art. No.
Brake Pipe Flaring Tool, 2-in-1	4903
Pipe Bender	5734
Mini Pipe Cutter, copper/brass/light metal, ø 1/8-5/8"	360

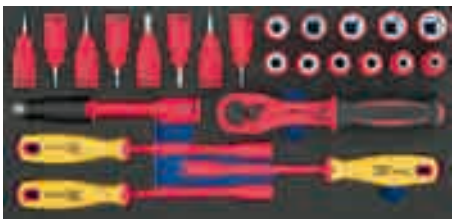
Item	pcs	Art. No.
Brake Pipe Flaring Tool in Foam	8	7452

Soft Foam Tray 1/3, empty, for storage

Item	Art. No.
Soft Foam Tray, empty	7199

VDE Socket Set in Foam 1/3, 24 pcs., 3/8"

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900



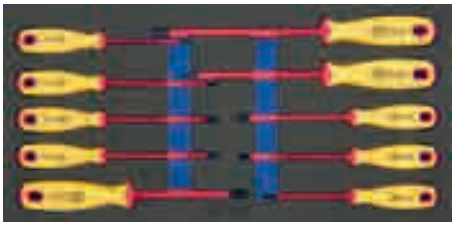
Content		14 mm	30200-14	4 mm	30222-04
hexagon		15 mm	30200-15	5 mm	30222-05
3/8", standard		16 mm	30200-16	6 mm	30222-06
7 mm	30200-07	17 mm	30200-17	8 mm	30222-08
8 mm	30200-08	Screwdriver		TX-Star T	
9 mm	30200-09	6 mm	30725-H06	3/8", standard	
10 mm	30200-10	7 mm	30725-H07	T15	30233-15
11 mm	30200-11	8 mm	30725-H08	T20	30233-20
12 mm	30200-12	Hexagon		T25	30233-25
13 mm	30200-13	3/8", standard		T30	30233-30

Drive Tools / Accessory, 3/8"	
Reversible Ratchet, VDE, 3/8"	30201
Extension Bar, VDE, 3/8", 150 mm	30215

Item	Profile	Drive	pcs	Art. No.
Socket Set in Foam	hexagon, Hexagon, TX-Star T	3/8"	24	30710

VDE Screwdriver Set in Foam 1/3, 10 pcs.

- for working with voltages of up to 1.000V
- protective insulated blade according to DIN ISO EN 60900



Content		T30	30725-T30	4.0 mm	30725-40
TX-Star T		Plain Slot		Cross Slot PH	
Screwdriver		Screwdriver		Screwdriver	
T15	30725-T15	2.5 mm	30725-25	PH1	30725-PH1
T20	30725-T20	3.0 mm	30725-30	PH2	30725-PH2
T25	30725-T25	3.5 mm	30725-35		

Item	Profile	pcs	Art. No.
Screwdriver Set in Foam	Plain Slot, Cross Slot PH, TX-Star T	10	30725

VDE Open End Spanner Set in Foam 1/3, 7-17 mm

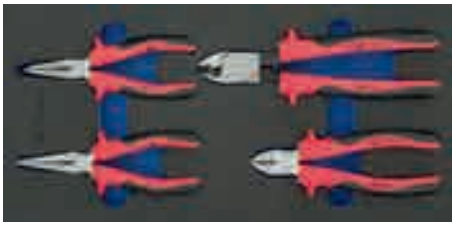
- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Content		10 mm	30730-10	15 mm	30730-15
Spanners		11 mm	30730-11	16 mm	30730-16
7 mm	30730-07	12 mm	30730-12	17 mm	30730-17
8 mm	30730-08	13 mm	30730-13		
9 mm	30730-09	14 mm	30730-14		

Item	pcs	Art. No.
Open End Spanner Set in Foam	11	30730

VDE Pliers Set in Foam 1/3, 4 pcs.

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

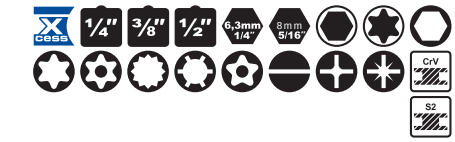


Content	Length	Art. No.
Long Nose Pliers	160 mm	30727-176
Bent Nose Pliers	160 mm	30727-180
Side Cutter	160 mm	30727-170
Cable Shears	200 mm	30727-171

Item	pcs	Art. No.
Pliers in Foam	4	30727

hexagon

2



Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 140 mm	1218-1
Spinner Handle, 1/4", 150 mm	21116
Extension Bar, 1/4", 50 mm	24805
Extension Bar, 1/4", 100 mm	24810
Sliding T-Bar, 1/4", 115 mm	24901
Universal Joint, 1/4"	24925
Bit Holding Socket, 1/4", for 1/4" bits	24900
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 200 mm	1218-2
Extension Bar, 3/8", 125 mm	26812
Universal Joint, 3/8"	26925
Bit Holding Socket, 3/8", for 8 mm bits	26900
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1218-3
Extension Bar, 1/2", 125 mm	28812
Extension Bar, 1/2", 250 mm	28825
T-Head, 1/2"	28901
Universal Joint, 1/2"	28925
Bit Holding Socket, 1/2", for 8 mm bits	28900
Miscellaneous Tools	
Hex Key Set, 7 pcs., 1-5 mm	*2215WKS*

Socket Set, 180 pcs., 1/4+3/8+1/2", hex 4-32 mm

Content							
hexagon		16 mm	27000-16	T9	*24033-9A*	1/4" bit, 25 mm	
1/4", standard		17 mm	27000-17	T10	*24033-10A*	M5	*16055-5*
4 mm	23000-4	18 mm	27000-18	T15	*24033-15A*	M6	*16055-6*
4.5 mm	23000-4.5	19 mm	27000-19	T20	*24033-20A*	M7	*16055-7*
5 mm	23000-5	20 mm	27000-20	T25	*24033-25A*	M8	*16055-8*
5.5 mm	23000-5.5	21 mm	27000-21	T27	*24033-27A*	M9	*16055-9*
6 mm	23000-6	22 mm	27000-22	T30	*24033-30A*	5-Star tamperproof	
7 mm	23000-7	24 mm	27000-24	1/4" bit, 25 mm		1/4" bit, 25 mm	
8 mm	23000-8	27 mm	27000-27	T5	16033-5	TS7	16066-7
9 mm	23000-9	30 mm	27000-30	T6	16033-6	TS10	16066-10
10 mm	23000-10	32 mm	27000-32	T7	16033-7	TS15	16066-15
11 mm	23000-11	1/2", deep		T8	16033-8	TS20	16066-20
12 mm	23000-12	16 mm	27077-16	T9	16033-9	TS25	16066-25
13 mm	23000-13	17 mm	27077-17	T10	16033-10	TS27	16066-27
14 mm	23000-14	18 mm	27077-18	T15	16033-15	TS30	16066-30
1/4", deep		19 mm	27077-19	T20	16033-20	TS40	16066-40
4 mm	23077-4	22 mm	27077-22	T25	16033-25	TS45	16066-45
5 mm	23077-5	TX-Star E		T27	16033-27	Plain Slot	
6 mm	23077-6	1/4", standard		T30	16033-30	1/4", 37 mm long	
7 mm	23077-7	E4	23011-4	8 mm bit, 30 mm		4 mm	*24077-4A*
8 mm	23077-8	E5	23011-5	T40	17033-40	5.5 mm	*24077-5.5A*
9 mm	23077-9	E6	23011-6	T45	17033-45	6.5 mm	*24077-6.5A*
10 mm	23077-10	E7	23011-7	T50	17033-50	7 mm	*24077-7A*
3/8", standard		E8	23011-8	T55	17033-55	8 mm bit, 30 mm	
10 mm	25000-10	3/8", standard		T60	17033-60	8 mm	*17077-8*
11 mm	25000-11	E10	25011-10	T70	17033-70	10 mm	*17077-10*
12 mm	25000-12	E11	25011-11	TX-Star tamperproof		12 mm	*17077-12*
13 mm	25000-13	E12	25011-12	1/4", 37 mm long		Cross Slot PH	
14 mm	25000-14	E14	25011-14	T8	*24044-8A*	1/4", 37 mm long	
15 mm	25000-15	E16	25011-16	T9	*24044-9A*	PH0	*24088-0A*
16 mm	25000-16	E18	25011-18	T10	*24044-10A*	PH1	*24088-1A*
17 mm	25000-17	1/2", standard		T15	*24044-15A*	PH2	*24088-2A*
18 mm	25000-18	E20	27011-20	T20	*24044-20A*	8 mm bit, 30 mm	
19 mm	25000-19	E24	27011-24	T25	*24044-25A*	PH3	*17088-3*
3/8", deep		Hexagon		T27	*24044-27A*	PH4	*17088-4*
10 mm	25077-10	1/4", 37 mm long		T30	*24044-30A*	Cross Slot PZ	
11 mm	25077-11	3 mm	*24022-3A*	8 mm bit, 30 mm		1/4", 37 mm long	
12 mm	25077-12	4 mm	*24022-4A*	T40	17044-40	PZ0	*24099-0A*
13 mm	25077-13	5 mm	*24022-5A*	T45	17044-45	PZ1	*24099-1A*
14 mm	25077-14	6 mm	*24022-6A*	T50	17044-50	PZ2	*24099-2A*
15 mm	25077-15	8 mm bit, 30 mm		T55	17044-55	8 mm bit, 30 mm	
1/2", standard		7 mm	17022-7	T60	17044-60	PZ3	*17099-3*
10 mm	27000-10	8 mm	17022-8	T70	17044-70	PZ4	*17099-4*
11 mm	27000-11	10 mm	17022-10	Spline		Spark Plug Sockets	
12 mm	27000-12	12 mm	17022-12	1/4" bit, 25 mm		3/8", standard	
13 mm	27000-13	14 mm	17022-14	M5	16011-5	18 mm	25209-18
14 mm	27000-14	TX-Star T		M6	16011-6	1/2", standard	
15 mm	27000-15	1/4", 37 mm long		M8	16011-8	16 mm	27209-16
		T8	*24033-8A*	Spline (for Ribe)		21 mm	27209-21

Item	Size	Drive	pcs	Art. No.
Socket Set	4-32 mm	1/4+3/8+1/2"	180	38180

Socket Set, 215 pcs., 1/4+3/8+1/2", hex 4-32 mm

Content		TX-Star E		1/4" bit, 25 mm		PZ2	*14099-2*
hexagon		1/4", standard		T7	16044-7	8 mm bit, 30 mm	
1/4", standard		E4	22400-E4	8 mm bit, 30 mm		PZ2	*17099-2*
4 mm	21288-4	E5	22400-E5	T40	17044-40	PZ3	*17099-3*
4.5 mm	21288-4.5	E6	22400-E6	T45	17044-45	PZ4	*17099-4*
5 mm	21288-5	E7	22400-E7	T50	17044-50	Hexagon tamperproof	
5.5 mm	21288-5.5	E8	22400-E8	T55	17044-55	1/4" bit, 25 mm	
6 mm	21288-6	3/8", standard		T60	17044-60	2 mm	*16881-2*
7 mm	21288-7	E10	22420-E10	Spline		2,5 mm	*16881-2.5*
8 mm	21288-8	E11	22420-E11	1/4" bit, 25 mm		3 mm	*16881-3*
9 mm	21288-9	E12	22420-E12	M5	16011-5	4 mm	*16881-4*
10 mm	21288-10	E14	22420-E14	M6	16011-6	5 mm	*16881-5*
11 mm	21288-11	E16	22420-E16	M8	16011-8	6 mm	*16881-6*
12 mm	21288-12	E18	22420-E18	8 mm bit, 30 mm		Square	
13 mm	21288-13	1/2", standard		M10	17011-10	1/4" bit, 25 mm	
14 mm	21288-14	E20	22440-E20	M12	17011-12	No.0	*16991-0*
1/4", deep		E22	22440-E22	Spline (for Ribe)		No.1	*16991-1*
4 mm	21299-4	E24	22440-E24	1/4" bit, 25 mm		No.2	*16991-2*
5 mm	21299-5	Hexagon		M5	*16055-5*	No.3	*16991-3*
6 mm	21299-6	1/4", 37 mm long		M6	*16055-6*	Spanner	
7 mm	21299-7	3 mm	14022-3	M7	*16055-7*	1/4" bit, 25 mm	
8 mm	21299-8	4 mm	14022-4	M8	*16055-8*	4 mm	*16992-4*
9 mm	21299-9	5 mm	14022-5	M9	*16055-9*	6 mm	*16992-6*
10 mm	21299-10	6 mm	14022-6	8 mm bit, 30 mm		8 mm	*16992-8*
3/8", standard		1/2", 55 mm long		M10	17055-10	10 mm	*16992-10*
10 mm	21688-10	14 mm	12022-14	M11	17055-11	Clutch	
11 mm	21688-11	8 mm bit, 30 mm		M12	17055-12	1/4" bit, 25 mm	
12 mm	21688-12	7 mm	17022-7	M13	17055-13	No.1	*16993-1*
13 mm	21688-13	8 mm	17022-8	5-Star tamperproof		No.2	*16993-2*
14 mm	21688-14	10 mm	17022-10	1/4" bit, 25 mm		No.3	*16993-3*
15 mm	21688-15	12 mm	17022-12	TS10	16066-10	Tri-Winged	
16 mm	21688-16	TX-Star T		TS15	16066-15	1/4" bit, 25 mm	
17 mm	21688-17	1/4", 37 mm long		TS20	16066-20	No.1	*16994-1*
18 mm	21688-18	T8	14033-8	TS25	16066-25	No.2	*16994-2*
19 mm	21688-19	T9	14033-9	TS27	16066-27	No.3	*16994-3*
3/8", deep		T10	14033-10	TS30	16066-30	No.4	*16994-4*
10 mm	21699-10	T15	14033-15	TS40	16066-40	Winged	
11 mm	21699-11	T20	14033-20	TS45	16066-45	1/4" bit, 25 mm	
12 mm	21699-12	T25	14033-25	8 mm bit, 30 mm		No.6	*16995-6*
13 mm	21699-13	T27	14033-27	TS50	17066-50	No.8	*16995-8*
14 mm	21699-14	T30	14033-30	Plain Slot		No.10	*16995-10*
15 mm	21699-15	1/2", 55 mm long		1/4", 37 mm long		Spark Plug Sockets	
1/2", standard		T70	12033-70	4 mm	14077-4	3/8", standard	
13 mm	22088-13	1/4" bit, 25 mm		5.5 mm	14077-5.5	18 mm	209D
14 mm	22088-14	T5	16033-5	6.5 mm	14077-6.5	1/2", standard	
15 mm	22088-15	T6	16033-6	7 mm	14077-7	16 mm	209A
16 mm	22088-16	T7	16033-7	8 mm bit, 30 mm		21 mm	209
17 mm	22088-17	8 mm bit, 30 mm		8 mm	*17077-8*	Spanners	
18 mm	22088-18	T40	17033-40	10 mm	*17077-10*	Combination Spanner	
19 mm	22088-19	T45	17033-45	12 mm	*17077-12*	8 mm	*3612-8*
20 mm	22088-20	T50	17033-50	Cross Slot PH		9 mm	*3612-9*
21 mm	22088-21	T55	17033-55	1/4", 37 mm long		10 mm	*3612-10*
22 mm	22088-22	T60	17033-60	PH0	*14088-0*	11 mm	*3612-11*
24 mm	22088-24	TX-Star tamperproof		PH1	14088-1	12 mm	*3612-12*
27 mm	22088-27	1/4", 37 mm long		PH2	14088-2	13 mm	*3612-13*
30 mm	22088-30	T8	14044-8	8 mm bit, 30 mm		14 mm	*3612-14*
32 mm	22088-32	T9	14044-9	PH2	*17088-2*	15 mm	*3612-15*
1/2", deep		T10	14044-10	PH3	*17088-3*	16 mm	*3612-16*
16 mm	22099-16	T15	14044-15	PH4	*17088-4*	17 mm	*3612-17*
17 mm	22099-17	T20	14044-20	Cross Slot PZ		18 mm	*3612-18*
18 mm	22099-18	T25	14044-25	1/4", 37 mm long		19 mm	*3612-19*
19 mm	22099-19	T27	14044-27	PZ0	*14099-0*		
22 mm	22099-22	T30	14044-30	PZ1	*14099-1*		

Item	Size	Drive	pcs	Art. No.
Socket Set	4-32 mm	1/4+3/8+1/2"	215	2215

2215: with combination spanners

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 140 mm	1218-1
Screwdriver, for 1/4" bits, 200 mm	21118
Spinner Handle, 1/4", 150 mm	21116
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Adapter, 1/4" square x 1/4" hexagon	*20630*
Bit Holder, 1/4", for 1/4" bits	20624
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 200 mm	1218-2
Extension Bar, 3/8", 125 mm	21503
Universal Joint, 3/8"	21525
Bit Holder, 3/8", for 8 mm bits	20623
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1218-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	21901
Universal Joint, 1/2"	21925
Bit Holding Socket, 1/2", for 8 mm bits	20621
Miscellaneous Tools	
Hex Key Set, 7 pcs., 1-5 mm	*2215WKS*

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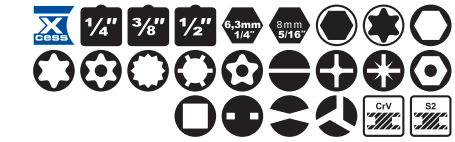


2215-1: with ratchet ring spanners

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 140 mm	1218-1
Screwdriver, for 1/4" bits, 200 mm	21118
Spinner Handle, 1/4", 150 mm	21116
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Adapter, 1/4" square x 1/4" hexagon	*20630*
Bit Holder, 1/4", for 1/4" bits	20624
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 200 mm	1218-2
Extension Bar, 3/8", 125 mm	21503
Universal Joint, 3/8"	21525
Bit Holder, 3/8", for 8 mm bits	20623
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1218-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	21901
Universal Joint, 1/2"	21925
Bit Holding Socket, 1/2", for 8 mm bits	20621
Miscellaneous Tools	
Hex Key Set, 7 pcs., 1-5 mm	*2215WKS*

Socket Set, 215 pcs., 1/4+3/8+1/2", hex 4-32 mm

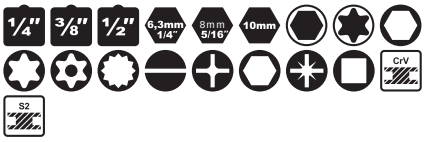
Content		TX-Star E		1/4" bit, 25 mm		PZ2	*14099-2*
hexagon		1/4", standard		T7	16044-7	8 mm bit, 30 mm	
1/4", standard		E4	22400-E4	8 mm bit, 30 mm		PZ2	*17099-2*
4 mm	21288-4	E5	22400-E5	T40	17044-40	PZ3	*17099-3*
4.5 mm	21288-4.5	E6	22400-E6	T45	17044-45	PZ4	*17099-4*
5 mm	21288-5	E7	22400-E7	T50	17044-50	Hexagon tamperproof	
5.5 mm	21288-5.5	E8	22400-E8	T55	17044-55	1/4" bit, 25 mm	
6 mm	21288-6	3/8", standard		T60	17044-60	2 mm	*16881-2*
7 mm	21288-7	E10	22420-E10	Spline		2,5 mm	*16881-2.5*
8 mm	21288-8	E11	22420-E11	1/4" bit, 25 mm		3 mm	*16881-3*
9 mm	21288-9	E12	22420-E12	M5	16011-5	4 mm	*16881-4*
10 mm	21288-10	E14	22420-E14	M6	16011-6	5 mm	*16881-5*
11 mm	21288-11	E16	22420-E16	M8	16011-8	6 mm	*16881-6*
12 mm	21288-12	E18	22420-E18	8 mm bit, 30 mm		Square	
13 mm	21288-13	1/2", standard		M10	17011-10	1/4" bit, 25 mm	
14 mm	21288-14	E20	22440-E20	M12	17011-12	No.0	*16991-0*
1/4", deep		E22	22440-E22	Spline (for Ribe)		No.1	*16991-1*
4 mm	21299-4	E24	22440-E24	1/4" bit, 25 mm		No.2	*16991-2*
5 mm	21299-5	Hexagon		M5	*16055-5*	No.3	*16991-3*
6 mm	21299-6	1/4", 37 mm long		M6	*16055-6*	Spanner	
7 mm	21299-7	3 mm	14022-3	M7	*16055-7*	1/4" bit, 25 mm	
8 mm	21299-8	4 mm	14022-4	M8	*16055-8*	4 mm	*16992-4*
9 mm	21299-9	5 mm	14022-5	M9	*16055-9*	6 mm	*16992-6*
10 mm	21299-10	6 mm	14022-6	8 mm bit, 30 mm		8 mm	*16992-8*
3/8", standard		1/2", 55 mm long		M10	17055-10	10 mm	*16992-10*
10 mm	21688-10	14 mm	12022-14	M11	17055-11	Clutch	
11 mm	21688-11	8 mm bit, 30 mm		M12	17055-12	1/4" bit, 25 mm	
12 mm	21688-12	7 mm	17022-7	M13	17055-13	No.1	*16993-1*
13 mm	21688-13	8 mm	17022-8	5-Star tamperproof		No.2	*16993-2*
14 mm	21688-14	10 mm	17022-10	1/4" bit, 25 mm		No.3	*16993-3*
15 mm	21688-15	12 mm	17022-12	TS10	16066-10	Tri-Winged	
16 mm	21688-16	TX-Star T		TS15	16066-15	1/4" bit, 25 mm	
17 mm	21688-17	1/4", 37 mm long		TS20	16066-20	No.1	*16994-1*
18 mm	21688-18	T8	14033-8	TS25	16066-25	No.2	*16994-2*
19 mm	21688-19	T9	14033-9	TS27	16066-27	No.3	*16994-3*
3/8", deep		T10	14033-10	TS30	16066-30	No.4	*16994-4*
10 mm	21699-10	T15	14033-15	TS40	16066-40	Winged	
11 mm	21699-11	T20	14033-20	TS45	16066-45	1/4" bit, 25 mm	
12 mm	21699-12	T25	14033-25	8 mm bit, 30 mm		No.6	*16995-6*
13 mm	21699-13	T27	14033-27	TS50	17066-50	No.8	*16995-8*
14 mm	21699-14	T30	14033-30	Plain Slot		No.10	*16995-10*
15 mm	21699-15	1/2", 55 mm long		1/4", 37 mm long		Spark Plug Sockets	
1/2", standard		T70	12033-70	4 mm	14077-4	3/8", standard	
13 mm	22088-13	1/4" bit, 25 mm		5.5 mm	14077-5.5	18 mm	209D
14 mm	22088-14	T5	16033-5	6.5 mm	14077-6.5	1/2", standard	
15 mm	22088-15	T6	16033-6	7 mm	14077-7	16 mm	209A
16 mm	22088-16	T7	16033-7	8 mm bit, 30 mm		21 mm	209
17 mm	22088-17	8 mm bit, 30 mm		8 mm	*17077-8*	Spanners	
18 mm	22088-18	T40	17033-40	10 mm	*17077-10*	Ratchet Wrench	
19 mm	22088-19	T45	17033-45	12 mm	*17077-12*	8 mm	4180-8
20 mm	22088-20	T50	17033-50	Cross Slot PH		9 mm	4180-9
21 mm	22088-21	T55	17033-55	1/4", 37 mm long		10 mm	4180-10
22 mm	22088-22	T60	17033-60	PH0	*14088-0*	11 mm	4180-11
24 mm	22088-24	TX-Star tamperproof		PH1	14088-1	12 mm	4180-12
27 mm	22088-27	1/4", 37 mm long		PH2	14088-2	13 mm	4180-13
30 mm	22088-30	T8	14044-8	8 mm bit, 30 mm		14 mm	4180-14
32 mm	22088-32	T9	14044-9	PH2	*17088-2*	15 mm	4180-15
1/2", deep		T10	14044-10	PH3	*17088-3*	16 mm	4180-16
16 mm	22099-16	T15	14044-15	PH4	*17088-4*	17 mm	4180-17
17 mm	22099-17	T20	14044-20	Cross Slot PZ		18 mm	4180-18
18 mm	22099-18	T25	14044-25	1/4", 37 mm long		19 mm	4180-19
19 mm	22099-19	T27	14044-27	PZ0	*14099-0*		
22 mm	22099-22	T30	14044-30	PZ1	*14099-1*		

Item	Size	Drive	pcs	Art. No.
Socket Set	4-32 mm	1/4+3/8+1/2"	215	2215-1

Socket Set, 199 pcs., 1/4+3/8+1/2", hex 4-32 mm

Content		19 mm	22088-19	T15	16033-15	1/4", 37 mm long	
hexagon		20 mm	22088-20	T20	16033-20	PH0	*14088-0*
1/4", standard		21 mm	22088-21	T25	16033-25	PH1	14088-1
4 mm	21288-4	22 mm	22088-22	T27	16033-27	PH2	14088-2
4.5 mm	21288-4.5	24 mm	22088-24	T30	16033-30	1/4" bit, 25 mm	
5 mm	21288-5	27 mm	22088-27	8 mm bit, 30 mm		PH0	*16088-0*
5.5 mm	21288-5.5	30 mm	22088-30	T40	17033-40	PH1	*16088-1*
6 mm	21288-6	32 mm	22088-32	T45	17033-45	PH2	*16088-2*
7 mm	21288-7	1/2", deep		T50	17033-50	PH3	*16088-3*
8 mm	21288-8	16 mm	22099-16	10 mm bit, 30 mm		8 mm bit, 30 mm	
9 mm	21288-9	18 mm	22099-18	T55	18033-55	PH3	*17088-3*
10 mm	21288-10	TX-Star E		T60	18033-60	PH4	*17088-4*
11 mm	21288-11	1/4", standard		T70	18033-70	Cross Slot PZ	
12 mm	21288-12	E4	22400-E4	TX-Star tamperproof		1/4", 37 mm long	
13 mm	21288-13	E5	22400-E5	1/4", 37 mm long		PZ0	*14099-0*
14 mm	21288-14	E6	22400-E6	T8	14044-8	PZ1	*14099-1*
1/4", deep		E7	22400-E7	T9	14044-9	PZ2	*14099-2*
4 mm	21299-4	E8	22400-E8	T10	14044-10	1/4" bit, 25 mm	
5 mm	21299-5	3/8", standard		T15	14044-15	PZ1	*16099-1*
6 mm	21299-6	E10	22420-E10	T20	14044-20	PZ2	*16099-2*
7 mm	21299-7	E11	22420-E11	T25	14044-25	PZ3	*16099-3*
8 mm	21299-8	E12	22420-E12	T27	14044-27	8 mm bit, 30 mm	
9 mm	21299-9	E14	22420-E14	T30	14044-30	PZ3	*17099-3*
10 mm	21299-10	E16	22420-E16	8 mm bit, 30 mm		PZ4	*17099-4*
3/8", standard		E18	22420-E18	T40	17044-40	Square	
10 mm	21688-10	1/2", standard		T45	17044-45	1/4" bit, 25 mm	
11 mm	21688-11	E20	22440-E20	T50	17044-50	No.1	*16991-1*
12 mm	21688-12	E24	22440-E24	10 mm bit, 30 mm		No.2	*16991-2*
13 mm	21688-13	Hexagon		T55	18044-55	No.3	*16991-3*
14 mm	21688-14	1/4", 37 mm long		T60	18044-60	Spark Plug Sockets	
15 mm	21688-15	3 mm	14022-3	T70	18044-70	3/8", standard	
16 mm	21688-16	4 mm	14022-4	Spline		18 mm	209D
17 mm	21688-17	5 mm	14022-5	1/4", 37 mm long		1/2", standard	
18 mm	21688-18	6 mm	14022-6	M8	*14011-8*	16 mm	209A
19 mm	21688-19	8 mm bit, 30 mm		M10	*14011-10*	21 mm	209
3/8", deep		7 mm	17022-7	M12	*14011-12*	Spanners	
10 mm	21699-10	8 mm	17022-8	Plain Slot		Ratchet Wrench	
11 mm	21699-11	10 mm	17022-10	1/4", 37 mm long		8 mm	2176-08
12 mm	21699-12	12 mm	17022-12	4 mm	14077-4	9 mm	2176-09
13 mm	21699-13	14 mm	17022-14	5.5 mm	14077-5.5	10 mm	2176-10
14 mm	21699-14	TX-Star T		6.5 mm	14077-6.5	11 mm	2176-11
15 mm	21699-15	1/4", 37 mm long		7 mm	14077-7	12 mm	2176-12
1/2", standard		T8	14033-8	1/4" bit, 25 mm		13 mm	2176-13
10 mm	22088-10	T9	14033-9	2.5 mm	*16077-2.5*	14 mm	2176-14
11 mm	22088-11	T10	14033-10	3 mm	*16077-3*	15 mm	2176-15
12 mm	22088-12	T15	14033-15	3.5 mm	*16077-3.5*	16 mm	2176-16
13 mm	22088-13	T20	14033-20	4 mm	*16077-4*	17 mm	2176-17
14 mm	22088-14	T25	14033-25	8 mm bit, 30 mm		18 mm	2176-18
15 mm	22088-15	T27	14033-27	8 mm	*17077-8*	19 mm	2176-19
16 mm	22088-16	T30	14033-30	10 mm	*17077-10*		
17 mm	22088-17	1/4" bit, 25 mm		12 mm	*17077-12*		
18 mm	22088-18	T10	16033-10	Cross Slot PH			

Item	Size	Drive	pcs	Art. No.
Socket Set	4-32 mm	1/4+3/8+1/2"	199	2176



Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 150 mm	1207-1
Spinner Handle, 1/4", 150 mm	21119
Bit Holder, 1/4", for 1/4" bits	20624
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Wobble Extension Bar, 1/4", 50 mm	20143-50
Wobble Extension Bar, 1/4", 100 mm	20143-100
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1207-2
Bit Holder, 3/8", for 8 mm bits	20623
Wobble Extension Bar, 3/8", 150 mm	20383-150
Universal Joint, 3/8"	21525
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1207-3
Bit Holder, 1/2", for 10 mm bits	20620
Wobble Extension Bar, 1/2", 125 mm	20125
Wobble Extension Bar, 1/2", 250 mm	20250
T-Head, 1/2"	21901
Universal Joint, 1/2"	21925
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 17 mm	5117
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 19 mm	5119
Wheel Nut Socket, 1/2", 85 mm, CrMo, hex 21 mm	5121
Miscellaneous Tools	
Ball End Key Set, 10 pcs., hex 1.27-10 mm	*2176-01*
Ball End Key Set, 10 pcs., tx-star T10-50	*2176-02*

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Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 150 mm	1207-1
Spinner Handle, 1/4", 150 mm	21119
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Bit Holder, 1/4", for 1/4" bits	20624
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1207-2
Extension Bar, 3/8", 150 mm	21505
Universal Joint, 3/8"	21525
Bit Holder, 3/8", for 8 mm bits	20623
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1207-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	21901
Universal Joint, 1/2"	21925
Bit Holder, 1/2", for 10 mm bits	20620
Miscellaneous Tools	
Hex Key Set, 7 pcs., 1-5 mm	*2215WKS*

Socket Set, 191 pcs., 1/4+3/8+1/2", hex 4-32 mm

Content							
hexagon		22 mm	22088-22	T25	14033-25	1/4", 37 mm long	
1/4", standard		24 mm	22088-24	T27	14033-27	4 mm	14077-4
4 mm	21288-4	27 mm	22088-27	T30	14033-30	5.5 mm	14077-5.5
4.5 mm	21288-4.5	30 mm	22088-30	1/4" bit, 25 mm		6.5 mm	14077-6.5
5 mm	21288-5	32 mm	22088-32	T7	16033-7	7 mm	14077-7
5.5 mm	21288-5.5	1/2", deep		T8	16033-8	1/4" bit, 25 mm	
6 mm	21288-6	16 mm	22099-16	T9	16033-9	2.5 mm	*16077-2.5*
7 mm	21288-7	17 mm	22099-17	T10	16033-10	3 mm	*16077-3*
8 mm	21288-8	18 mm	22099-18	T15	16033-15	4 mm	*16077-4*
9 mm	21288-9	19 mm	22099-19	T20	16033-20	5 mm	*16077-5*
10 mm	21288-10	22 mm	22099-22	T25	16033-25	6.5 mm	*16077-6.5*
11 mm	21288-11	TX-Star E		T27	16033-27	7 mm	*16077-7*
12 mm	21288-12	1/4", standard		T30	16033-30	8 mm bit, 30 mm	
13 mm	21288-13	E4	22400-E4	8 mm bit, 30 mm		8 mm	*17077-8*
1/4", deep		E5	22400-E5	T40	17033-40	10 mm	*17077-10*
4 mm	21299-4	E6	22400-E6	T45	17033-45	12 mm	*17077-12*
5 mm	21299-5	E7	22400-E7	T50	17033-50	Cross Slot PH	
6 mm	21299-6	E8	22400-E8	10 mm bit, 30 mm		1/4", 37 mm long	
7 mm	21299-7	3/8", standard		T55	18033-55	PH0	*14088-0*
8 mm	21299-8	E10	22420-E10	T60	18033-60	PH1	14088-1
9 mm	21299-9	E11	22420-E11	T70	18033-70	PH2	14088-2
10 mm	21299-10	E12	22420-E12	TX-Star tamperproof		1/4" bit, 25 mm	
3/8", standard		E14	22420-E14	1/4", 37 mm long		PH1	*16088-1*
10 mm	21688-10	E16	22420-E16	T8	14044-8	PH2	*16088-2*
11 mm	21688-11	E18	22420-E18	T9	14044-9	PH3	*16088-3*
12 mm	21688-12	1/2", standard		T10	14044-10	8 mm bit, 30 mm	
13 mm	21688-13	E20	22440-E20	T15	14044-15	PH3	*17088-3*
14 mm	21688-14	E24	22440-E24	T20	14044-20	PH4	*17088-4*
15 mm	21688-15	Hexagon		T25	14044-25	Cross Slot PZ	
16 mm	21688-16	1/4", 37 mm long		T27	14044-27	1/4", 37 mm long	
17 mm	21688-17	3 mm	14022-3	T30	14044-30	PZ0	*14099-0*
18 mm	21688-18	4 mm	14022-4	8 mm bit, 30 mm		PZ1	*14099-1*
19 mm	21688-19	5 mm	14022-5	T40	17044-40	PZ2	*14099-2*
3/8", deep		6 mm	14022-6	T45	17044-45	1/4" bit, 25 mm	
10 mm	21699-10	1/4" bit, 25 mm		T50	17044-50	PZ1	*16099-1*
11 mm	21699-11	2 mm	16022-2	10 mm bit, 30 mm		PZ2	*16099-2*
12 mm	21699-12	2.5 mm	16022-2.5	T55	18044-55	PZ3	*16099-3*
13 mm	21699-13	3 mm	16022-3	T60	18044-60	8 mm bit, 30 mm	
14 mm	21699-14	4 mm	16022-4	T70	18044-70	PZ3	*17099-3*
15 mm	21699-15	5 mm	16022-5	Spline		PZ4	*17099-4*
1/2", standard		6 mm	16022-6	1/4" bit, 25 mm		Square	
10 mm	22088-10	8 mm bit, 30 mm		M5	16011-5	1/4" bit, 25 mm	
11 mm	22088-11	7 mm	17022-7	M6	16011-6	No.1	*16991-1*
12 mm	22088-12	8 mm	17022-8	M8	16011-8	No.2	*16991-2*
13 mm	22088-13	10 mm	17022-10	5-Star tamperproof		No.3	*16991-3*
14 mm	22088-14	12 mm	17022-12	1/4" bit, 25 mm		Spark Plug Sockets	
15 mm	22088-15	14 mm	17022-14	TS10	16066-10	3/8", standard	
16 mm	22088-16	TX-Star T		TS15	16066-15	18 mm	209D
17 mm	22088-17	1/4", 37 mm long		TS20	16066-20	1/2", standard	
18 mm	22088-18	T8	14033-8	TS25	16066-25	16 mm	209A
19 mm	22088-19	T9	14033-9	TS27	16066-27	21 mm	209
20 mm	22088-20	T10	14033-10	TS30	16066-30		
21 mm	22088-21	T15	14033-15	TS40	16066-40		
		T20	14033-20	Plain Slot			

Item	Size	Drive	pcs	Art. No.
Socket Set	4-32 mm	1/4+3/8+1/2"	191	1171

Socket Set, 98 pcs., 1/4+1/2", hex 4-32 mm

Content		20 mm	27000-20	T50	17033-50
hexagon		21 mm	27000-21	T55	17033-55
1/4", standard		22 mm	27000-22	T60	17033-60
4 mm	23000-4	24 mm	27000-24	T70	17033-70
4.5 mm	23000-4.5	27 mm	27000-27	TX-Star tamperproof	
5 mm	23000-5	30 mm	27000-30	1/4", 37 mm long	
5.5 mm	23000-5.5	32 mm	27000-32	T10	*24044-10A*
6 mm	23000-6	1/2", deep		T15	*24044-15A*
7 mm	23000-7	16 mm	27077-16	T20	*24044-20A*
8 mm	23000-8	17 mm	27077-17	T25	*24044-25A*
9 mm	23000-9	18 mm	27077-18	T27	*24044-27A*
10 mm	23000-10	19 mm	27077-19	T30	*24044-30A*
11 mm	23000-11	22 mm	27077-22	8 mm bit, 30 mm	
12 mm	23000-12	Hexagon		T40	17044-40
13 mm	23000-13	1/4", 37 mm long		T45	17044-45
14 mm	23000-14	3 mm	*24022-3A*	T50	17044-50
1/4", deep		4 mm	*24022-4A*	T55	17044-55
6 mm	23077-6	5 mm	*24022-5A*	Plain Slot	
7 mm	23077-7	6 mm	*24022-6A*	1/4", 37 mm long	
8 mm	23077-8	8 mm bit, 30 mm		4 mm	*24077-4A*
9 mm	23077-9	7 mm	17022-7	5.5 mm	*24077-5.5A*
10 mm	23077-10	8 mm	17022-8	8 mm bit, 30 mm	
11 mm	23077-11	10 mm	17022-10	7 mm	*17077-7*
12 mm	23077-12	12 mm	17022-12	8 mm	*17077-8*
13 mm	23077-13	14 mm	17022-14	Cross Slot PH	
1/2", standard		TX-Star T		1/4", 37 mm long	
10 mm	27000-10	1/4", 37 mm long		PH1	*24088-1A*
11 mm	27000-11	T10	*24033-10A*	PH2	*24088-2A*
12 mm	27000-12	T15	*24033-15A*	8 mm bit, 30 mm	
13 mm	27000-13	T20	*24033-20A*	PH3	*17088-3*
14 mm	27000-14	T25	*24033-25A*	Spark Plug Sockets	
15 mm	27000-15	T27	*24033-27A*	1/2", standard	
16 mm	27000-16	T30	*24033-30A*	16 mm	27209-16
17 mm	27000-17	8 mm bit, 30 mm		21 mm	27209-21
18 mm	27000-18	T40	17033-40		
19 mm	27000-19	T45	17033-45		

Item	Size	Drive	pcs	Art. No.
Socket Set	4-32 mm	1/4+1/2"	98	37198

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 140 mm	1218-1
Spinner Handle, 1/4", 150 mm	21116
Extension Bar, 1/4", 50 mm	24805
Extension Bar, 1/4", 100 mm	24810
Sliding T-Bar, 1/4", 115 mm	24901
Universal Joint, 1/4"	24925
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1218-3
Extension Bar, 1/2", 125 mm	28812
Extension Bar, 1/2", 250 mm	28825
T-Head, 1/2"	28901
Universal Joint, 1/2"	28925
Bit Holding Socket, 1/2", for 8 mm bits	28900
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

Socket Set, 94 pcs., 1/4+1/2", hex 4-32 mm

Content		13 mm	21299-13	19 mm	22099-19
hexagon		1/2", standard		Hexagon	
1/4", standard		10 mm	22088-10	1/4", 37 mm long	
4 mm	21288-4	11 mm	22088-11	3 mm	14022-3
4.5 mm	21288-4.5	12 mm	22088-12	4 mm	14022-4
5 mm	21288-5	13 mm	22088-13	5 mm	14022-5
5.5 mm	21288-5.5	14 mm	22088-14	6 mm	14022-6
6 mm	21288-6	15 mm	22088-15	8 mm bit, 30 mm	
7 mm	21288-7	16 mm	22088-16	8 mm	17022-8
8 mm	21288-8	17 mm	22088-17	10 mm	17022-10
9 mm	21288-9	18 mm	22088-18	12 mm	17022-12
10 mm	21288-10	19 mm	22088-19	14 mm	17022-14
11 mm	21288-11	20 mm	22088-20	TX-Star T	
12 mm	21288-12	21 mm	22088-21	1/4", 37 mm long	
13 mm	21288-13	22 mm	22088-22	T8	14033-8
14 mm	21288-14	23 mm	22088-23	T10	14033-10
1/4", deep		24 mm	22088-24	T15	14033-15
6 mm	21299-6	27 mm	22088-27	T20	14033-20
7 mm	21299-7	30 mm	22088-30	T25	14033-25
8 mm	21299-8	32 mm	22088-32	T30	14033-30
9 mm	21299-9	1/2", deep		Spark Plug Sockets	
10 mm	21299-10	14 mm	22099-14	1/2", standard	
11 mm	21299-11	15 mm	22099-15	21 mm	209
12 mm	21299-12	17 mm	22099-17		

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 150 mm	1207-1
Spinner Handle, 1/4", 150 mm	21119

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Flexible Extension Bar, 1/4", 150 mm	21109
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Adapter, 1/4" square x 1/4" hexagon	*20630*
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1207-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	21901
Universal Joint, 1/2"	21925
Bit Holding Socket, 1/2", for 8 mm bits	20621
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205-1
Extension Bar, 1/4", 75 mm	21103
Sliding T-Bar, 1/4", 115 mm	21120
Spinner Handle, 1/4", 150 mm	21117
Bit Holder, 1/4", for 1/4" bits	20624
Universal Joint, 1/4"	21125
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1205-2
Extension Bar, 3/8", 75 mm	21500
Extension Bar, 3/8", 150 mm	21505
Bit Holder, 3/8", for 8 mm bits	20623
Socket Converter, 3/8" F x 1/4" M	20602
Universal Joint, 3/8"	21525
Miscellaneous Tools	
Hex Key Set, 9 pcs., 1.5-10 mm	*1192WKS*

8 mm bit, 30 mm		8 mm	*17077-8*	1/4", 37 mm long	
T40	17033-40	10 mm	*17077-10*	PZ1	*14099-1*
T45	17033-45	12 mm	*17077-12*	PZ2	*14099-2*
T50	17033-50	Cross Slot PH		8 mm bit, 30 mm	
T55	17033-55	1/4", 37 mm long		PZ3	*17099-3*
Plain Slot		PH1	14088-1	PZ4	*17099-4*
1/4", 37 mm long		PH2	14088-2	Spark Plug Sockets	
4 mm	14077-4	8 mm bit, 30 mm		1/2", standard	
5.5 mm	14077-5.5	PH3	*17088-3*	16 mm	209A
7 mm	14077-7	PH4	*17088-4*	21 mm	209
8 mm bit, 30 mm		Cross Slot PZ			

Item	Size	Drive	pcs	Art. No.
Socket Set	4-32 mm	1/4+1/2"	94	1094

Socket Set, 92 pcs., 1/4+3/8", hex 4-24 mm

Content		14 mm	21699-14	8 mm	*16077-8*
hexagon		15 mm	21699-15	8 mm bit, 30 mm	
1/4", standard		17 mm	21699-17	8 mm	*17077-8*
4 mm	21288-4	19 mm	21699-19	10 mm	*17077-10*
5 mm	21288-5	Hexagon		Cross Slot PH	
5.5 mm	21288-5.5	1/4" bit, 25 mm		1/4" bit, 25 mm	
6 mm	21288-6	3 mm	16022-3	PH1	*16088-1*
7 mm	21288-7	4 mm	16022-4	PH2	*16088-2*
8 mm	21288-8	5 mm	16022-5	PH3	*16088-3*
9 mm	21288-9	6 mm	16022-6	Cross Slot PZ	
10 mm	21288-10	8 mm bit, 30 mm		1/4" bit, 25 mm	
11 mm	21288-11	6 mm	17022-6	PZ1	*16099-1*
13 mm	21288-13	7 mm	17022-7	PZ2	*16099-2*
1/4", deep		8 mm	17022-8	PZ3	*16099-3*
7 mm	21299-7	10 mm	17022-10	Spark Plug Sockets	
8 mm	21299-8	TX-Star T		3/8", standard	
10 mm	21299-10	1/4" bit, 25 mm		16 mm	209C
12 mm	21299-12	T10	16033-10	18 mm	209D
13 mm	21299-13	T15	16033-15	21 mm	209B
3/8", standard		T20	16033-20	Spanners	
13 mm	21688-13	T25	16033-25	Combination Spanner	
14 mm	21688-14	T27	16033-27	6 mm	*1192-6*
15 mm	21688-15	T30	16033-30	8 mm	*1192-8*
16 mm	21688-16	8 mm bit, 30 mm		10 mm	*1192-10*
17 mm	21688-17	T40	17033-40	12 mm	*1192-12*
18 mm	21688-18	T45	17033-45	13 mm	*1192-13*
19 mm	21688-19	T50	17033-50	14 mm	*1192-14*
20 mm	21688-20	T55	17033-55	15 mm	*1192-15*
21 mm	21688-21	Plain Slot		17 mm	*1192-17*
22 mm	21688-22	1/4" bit, 25 mm		19 mm	*1192-19*
24 mm	21688-24	4.5 mm	*16077-4.5*		
3/8", deep		6.5 mm	*16077-6.5*		

Item	Size	Drive	pcs	Art. No.
Socket Set	4-24 mm	1/4+3/8"	92	1192

Tool Set, 156 pcs., 1/4+1/2", hex 4-32 mm

Content		27 mm	22088-27	8 mm	*16077-8*
hexagon		30 mm	22088-30	Screwdriver	
1/4", standard		32 mm	22088-32	5.5 mm	11977-55
4 mm	21288-4	Hexagon		6.5 mm	11977-65
4.5 mm	21288-4.5	1/4" bit, 25 mm		Cross Slot PH	
5 mm	21288-5	3 mm	16022-3	1/4" bit, 25 mm	
5.5 mm	21288-5.5	4 mm	16022-4	PH1	*16088-1*
6 mm	21288-6	5 mm	16022-5	PH2	*16088-2*
7 mm	21288-7	6 mm	16022-6	PH3	*16088-3*
8 mm	21288-8	7 mm	16022-7	Screwdriver	
9 mm	21288-9	8 mm	16022-8	PH1	11988-01
10 mm	21288-10	TX-Star T		PH2	11988-02
11 mm	21288-11	1/4" bit, 25 mm		Cross Slot PZ	
12 mm	21288-12	T8	16033-8	1/4" bit, 25 mm	
13 mm	21288-13	T10	16033-10	PZ1	*16099-1*
1/4", deep		T15	16033-15	PZ2	*16099-2*
6 mm	21299-6	T20	16033-20	PZ3	*16099-3*
8 mm	21299-8	T25	16033-25	Screwdriver	
10 mm	21299-10	T27	16033-27	PZ2	11999-02
11 mm	21299-11	T30	16033-30	Spark Plug Sockets	
12 mm	21299-12	T40	16033-40	1/2", standard	
13 mm	21299-13	T45	16033-45	16 mm	209A
1/2", standard		TX-Star tamperproof		21 mm	209
10 mm	22088-10	1/4" bit, 25 mm		Spanners	
11 mm	22088-11	T15	16044-15	Combination Spanner	
12 mm	22088-12	T20	16044-20	8 mm	*2156-08*
13 mm	22088-13	T25	16044-25	9 mm	*2156-09*
14 mm	22088-14	T27	16044-27	10 mm	*2156-10*
15 mm	22088-15	T30	16044-30	11 mm	*2156-11*
16 mm	22088-16	T40	16044-40	12 mm	*2156-12*
17 mm	22088-17	T45	16044-45	13 mm	*2156-13*
18 mm	22088-18	Plain Slot		14 mm	*2156-14*
19 mm	22088-19	1/4" bit, 25 mm		15 mm	*2156-15*
20 mm	22088-20	2.5 mm	*16077-2.5*	16 mm	*2156-16*
21 mm	22088-21	3 mm	*16077-3*	17 mm	*2156-17*
22 mm	22088-22	4 mm	*16077-4*	18 mm	*2156-18*
24 mm	22088-24	6 mm	*16077-6*	19 mm	*2156-19*

Item	Size	Drive	pcs	Art. No.
Tool Set	4-32 mm	1/4+1/2"	156	2156

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 150 mm	1207-1
Spinner Handle, 1/4", 150 mm	21119
Bit Holder, 1/4", for 1/4" bits	20624
Extension Bar, 1/4", 75 mm	21103
Universal Joint, 1/4"	21125
Magnetic Holder, for 1/4" bits, 60 mm	21260
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1207-3
Extension Bar, 1/2", 125 mm	21900
Universal Joint, 1/2"	21925
Miscellaneous Tools	
German Pattern Machinist Hammer, 300 g	*2156-9553*
Side Cutter, 180 mm	*2156-9170*
Combination Pliers, 180 mm	*2156-9185*
Water Pump Pliers, box-joint, 240 mm	*2156-9272*
Crimping Pliers, insulated and non-insulated terminals	*2156-9303*
Mains Tester, 120-250 V, 140 mm	570
Car Electric Circuit Tester, metal body, 6-24 V, 110 mm	585
Terminal Assortment, 64 pcs.	*2156-KS*
Hex Key Set, 7 pcs., 1-5 mm	*2215WKS*

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Socket Set, 60 pcs., 1/4", hex 4-14 mm

Content		13 mm	23077-13	T15	*24033-15A*
hexagon		14 mm	23077-14	T20	*24033-20A*
1/4", standard		TX-Star E		T25	*24033-25A*
4 mm	23000-4	1/4", standard		T27	*24033-27A*
4.5 mm	23000-4.5	E4	23011-4	T30	*24033-30A*
5 mm	23000-5	E5	23011-5	T40	*24033-40A*
5.5 mm	23000-5.5	E6	23011-6	Plain Slot	
6 mm	23000-6	E7	23011-7	1/4", 37 mm long	
7 mm	23000-7	E8	23011-8	4 mm	*24077-4A*
8 mm	23000-8	E10	23011-10	5.5 mm	*24077-5.5A*
9 mm	23000-9	E11	23011-11	7 mm	*24077-7A*
10 mm	23000-10	Hexagon		Cross Slot PH	
11 mm	23000-11	1/4", 37 mm long		1/4", 37 mm long	
12 mm	23000-12	3 mm	*24022-3A*	PH1	*24088-1A*
13 mm	23000-13	4 mm	*24022-4A*	PH2	*24088-2A*
14 mm	23000-14	5 mm	*24022-5A*	PH3	*24088-3A*
1/4", deep		6 mm	*24022-6A*	Cross Slot PZ	
7 mm	23077-7	7 mm	*24022-7A*	1/4", 37 mm long	
8 mm	23077-8	8 mm	*24022-8A*	PZ1	*24099-1A*
10 mm	23077-10	TX-Star T		PZ2	*24099-2A*
11 mm	23077-11	1/4", 37 mm long			
12 mm	23077-12	T10	*24033-10A*		

Item	Size	Drive	pcs	Art. No.
Socket Set	4-14 mm	1/4"	60	38060

Drive Tools / Accessory, 1/4"	
Narrow Space Reversible Ratchet, 1/4"	1219-1
Spinner Handle, 1/4", 150 mm	21116
Flexible Extension Bar, 1/4", 150 mm	*24801*
Extension Bar, 1/4", 50 mm	24805
Extension Bar, 1/4", 100 mm	24810
Sliding T-Bar, 1/4", 115 mm	24901
Universal Joint, 1/4"	24925
Adapter, 1/4" square x 1/4" hexagon	*20630*
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.3, 1.5, 2.0, 2.5 mm	*1046-WKS*

Socket and Bit Set, 38 pcs., 1/4", hex 5.5-14 mm

Content		3 mm	16022-3	1/4" bit, 25 mm	
hexagon		4 mm	16022-4	4 mm	*16077-4*
1/4", standard		5 mm	16022-5	5.5 mm	*16077-5.5*
5.5 mm	23000-5.5	6 mm	16022-6	6.5 mm	*16077-6.5*
6 mm	23000-6	8 mm	16022-8	Cross Slot PH	
7 mm	23000-7	TX-Star T		1/4" bit, 25 mm	
8 mm	23000-8	1/4" bit, 25 mm		PH1	*16088-1*
9 mm	23000-9	T10	16033-10	PH2	*16088-2*
10 mm	23000-10	T15	16033-15	PH3	*16088-3*
11 mm	23000-11	T20	16033-20	Cross Slot PZ	
12 mm	23000-12	T25	16033-25	1/4" bit, 25 mm	
13 mm	23000-13	T27	16033-27	PZ1	*16099-1*
14 mm	23000-14	T30	16033-30	PZ2	*16099-2*
Hexagon		T40	16033-40	PZ3	*16099-3*
1/4" bit, 25 mm		Plain Slot			

Item	Size	Drive	pcs	Art. No.
Socket Set	5.5-14 mm	1/4" square + 1/4" hex	38	1138

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 140 mm	1218-1
Spinner Handle, 1/4", 150 mm	21116
Extension Bar, 1/4", 50 mm	24805
Extension Bar, 1/4", 100 mm	24810
Universal Joint, 1/4"	24925
Bit Holding Socket, 1/4", for 1/4" bits	24900
Adapter, 1/4" square x 1/4" hexagon	*20630*

Socket Set, 68 pcs., 1/4", hex 4-14 mm

Content					
hexagon		3 mm	16022-3	1/4", 37 mm long	
1/4", standard		4 mm	16022-4	4 mm	14077-4
4 mm	21288-4	5 mm	16022-5	5.5 mm	14077-5.5
4.5 mm	21288-4.5	6 mm	16022-6	6.5 mm	14077-6.5
5 mm	21288-5	TX-Star T		1/4" bit, 25 mm	
5.5 mm	21288-5.5	1/4", 37 mm long		2.5 mm	*16077-2.5*
6 mm	21288-6	T10	14033-10	3 mm	*16077-3*
7 mm	21288-7	T15	14033-15	8 mm	*16077-8*
8 mm	21288-8	T20	14033-20	Cross Slot PH	
9 mm	21288-9	T25	14033-25	1/4", 37 mm long	
10 mm	21288-10	T27	14033-27	PH1	14088-1
11 mm	21288-11	T30	14033-30	PH2	14088-2
12 mm	21288-12	T40	14033-40	PH3	*14088-3*
13 mm	21288-13	TX-Star tamperproof		1/4" bit, 25 mm	
14 mm	21288-14	1/4" bit, 25 mm		PH1	*16088-1*
Hexagon		T8	16044-8	PH2	*16088-2*
1/4", 37 mm long		T9	16044-9	PH3	*16088-3*
3 mm	14022-3	T10	16044-10	Cross Slot PZ	
4 mm	14022-4	T15	16044-15	1/4", 37 mm long	
5 mm	14022-5	T20	16044-20	PZ1	*14099-1*
6 mm	14022-6	T25	16044-25	PZ2	*14099-2*
7 mm	14022-7	T27	16044-27	1/4" bit, 25 mm	
8 mm	14022-8	T30	16044-30	PZ2	*16099-2*
1/4" bit, 25 mm		T40	16044-40		
		Plain Slot			

Item	Size	Drive	pcs	Art. No.
Socket Set	4-14 mm	1/4"	68	1068

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 150 mm	1207-1
Spinner Handle, 1/4", 150 mm	21119
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Flexible Extension Bar, 1/4", 150 mm	21109
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Bit Holder, 1/4", for 1/4" bits	20624
Adapter, 1/4" square x 1/4" hexagon	*20630*
Magnetic Holder, for 1/4" bits, 60 mm	21260
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.3, 1.5, 2.0, 2.5 mm	*1046-WKS*

Socket Set, 46 pcs., 1/4", hex 4-14 mm

Content		Hexagon		Plain Slot	
hexagon		1/4", 37 mm long		1/4", 37 mm long	
1/4", standard		3 mm	14022-3	4 mm	14077-4
4 mm	21288-4	4 mm	14022-4	5.5 mm	14077-5.5
4.5 mm	21288-4.5	5 mm	14022-5	7 mm	14077-7
5 mm	21288-5	6 mm	14022-6	Cross Slot PH	
5.5 mm	21288-5.5	7 mm	14022-7	1/4", 37 mm long	
6 mm	21288-6	8 mm	14022-8	PH1	14088-1
7 mm	21288-7	TX-Star T		PH2	14088-2
8 mm	21288-8	1/4", 37 mm long		PH3	*14088-3*
9 mm	21288-9	T10	14033-10	Cross Slot PZ	
10 mm	21288-10	T15	14033-15	1/4", 37 mm long	
11 mm	21288-11	T20	14033-20	PZ1	*14099-1*
12 mm	21288-12	T25	14033-25	PZ2	*14099-2*
13 mm	21288-13	T30	14033-30	PZ3	*14099-3*
14 mm	21288-14	T40	14033-40		

Item	Size	Drive	pcs	Art. No.
Socket Set	4-14 mm	1/4"	46	1046

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 150 mm	1207-1
Spinner Handle, 1/4", 150 mm	21119
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Flexible Extension Bar, 1/4", 150 mm	21109
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125

Adapter, 1/4" square x 1/4" hexagon	*20630*
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.3, 1.5, 2.0, 2.5 mm	*1046-WKS*

Socket Set, 71 pcs., 3/8", hex 6-24 mm

Content		3/8", deep		3/8", 48 mm long		Plain Slot	
hexagon		8 mm	21699-8	T15	13033-15	3/8", 48 mm long	
3/8", standard		9 mm	21699-9	T20	13033-20	5.5 mm	*13077-5.5*
6 mm	21688-6	10 mm	21699-10	T25	13033-25	7 mm	*13077-7*
7 mm	21688-7	11 mm	21699-11	T27	13033-27	8 mm	*13077-8*
8 mm	21688-8	12 mm	21699-12	T30	13033-30	Cross Slot PH	
9 mm	21688-9	13 mm	21699-13	T40	13033-40	3/8", 48 mm long	
10 mm	21688-10	14 mm	21699-14	T45	13033-45	PH1	*13088-1*
11 mm	21688-11	15 mm	21699-15	T50	13033-50	PH2	*13088-2*
12 mm	21688-12	17 mm	21699-17	T55	13033-55	PH3	*13088-3*
13 mm	21688-13	19 mm	21699-19	TX-Star tamperproof		Cross Slot PZ	
14 mm	21688-14	Hexagon		8 mm bit, 30 mm		3/8", 48 mm long	
15 mm	21688-15	3/8", 48 mm long		T15	17044-15	PZ1	*13099-1*
16 mm	21688-16	3 mm	13022-3	T20	17044-20	PZ2	*13099-2*
17 mm	21688-17	4 mm	13022-4	T25	17044-25	PZ3	*13099-3*
18 mm	21688-18	5 mm	13022-5	T27	17044-27	Spark Plug Sockets	
19 mm	21688-19	6 mm	13022-6	T30	17044-30	3/8", standard	
20 mm	21688-20	7 mm	13022-7	T40	17044-40	16 mm	209C
21 mm	21688-21	8 mm	13022-8	T45	17044-45	21 mm	209B
22 mm	21688-22	10 mm	13022-10	T50	17044-50		
24 mm	21688-24	TX-Star T		T55	17044-55		

Item	Size	Drive	pcs	Art. No.
Socket Set	6-24 mm	3/8"	71	2171

Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1205-2
Wobble Extension Bar, 3/8", 75 mm	20383-75
Extension Bar, 3/8", 250 mm	*21510*
Sliding T-Head, 3/8"	21501
Universal Joint, 3/8"	21525
Bit Holder, 3/8", for 8 mm bits	20623
Adapter, 3/8" square x 3/8" hexagon	*20631*

Socket Set, 26 pcs., 3/8", hex 6-24 mm

Content		12 mm	21688-12	21 mm	21688-21
hexagon		13 mm	21688-13	22 mm	21688-22
3/8", standard		14 mm	21688-14	24 mm	21688-24
6 mm	21688-6	15 mm	21688-15	Spark Plug Sockets	
7 mm	21688-7	16 mm	21688-16	3/8", standard	
8 mm	21688-8	17 mm	21688-17	16 mm	209C
9 mm	21688-9	18 mm	21688-18	21 mm	209B
10 mm	21688-10	19 mm	21688-19		
11 mm	21688-11	20 mm	21688-20		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	hexagon	6-24 mm	3/8"	26	1126

Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1207-2
Extension Bar, 3/8", 45 mm	*21502*
Extension Bar, 3/8", 75 mm	21500
Extension Bar, 3/8", 150 mm	21505
Sliding T-Head, 3/8"	21501
Universal Joint, 3/8"	21525

Socket Set, 27 pcs., 1/2", hex 8-32 mm

Content		14 mm	22088-14	23 mm	22088-23
hexagon		15 mm	22088-15	24 mm	22088-24
1/2", standard		16 mm	22088-16	27 mm	22088-27
8 mm	22088-8	17 mm	22088-17	30 mm	22088-30
9 mm	22088-9	18 mm	22088-18	32 mm	22088-32
10 mm	22088-10	19 mm	22088-19	Spark Plug Sockets	
11 mm	22088-11	20 mm	22088-20	1/2", standard	
12 mm	22088-12	21 mm	22088-21	16 mm	209A
13 mm	22088-13	22 mm	22088-22	21 mm	209

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	hexagon	8-32 mm	1/2"	27	1125

Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1207-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
Universal Joint, 1/2"	21925
T-Head, 1/2"	21901

Socket Set, 27 pcs., 3/4", hex 19-60 mm

Content		27 mm	29000-27	38 mm	29000-38
hexagon		28 mm	29000-28	40 mm	29000-40
3/4", standard		29 mm	29000-29	41 mm	29000-41
19 mm	29000-19	30 mm	29000-30	46 mm	29000-46
21 mm	29000-21	32 mm	29000-32	50 mm	29000-50
22 mm	29000-22	33 mm	29000-33	55 mm	29000-55
23 mm	29000-23	34 mm	29000-34	60 mm	29000-60
24 mm	29000-24	35 mm	29000-35		
26 mm	29000-26	36 mm	29000-36		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	hexagon	19-60 mm	1/2"	27	38134

Drive Tools / Accessory, 3/4"	
Reversible Ratchet, 3/4", 500 mm	29550
Extension Bar, 3/4", 100 mm	29810
Extension Bar, 3/4", 200 mm	29820
Extension Bar, 3/4", 400 mm	29840
Sliding T-Bar, 3/4", 450 mm	29901

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Socket Set, 21 pcs., 3/4", hex 19-50 mm

Content		24 mm	22600-24	36 mm	22600-36
hexagon		26 mm	22600-26	38 mm	22600-38
3/4", standard		27 mm	22600-27	41 mm	22600-41
19 mm	22600-19	29 mm	22600-29	46 mm	22600-46
21 mm	22600-21	30 mm	22600-30	50 mm	22600-50
22 mm	22600-22	32 mm	22600-32		
23 mm	22600-23	35 mm	22600-35		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	hexagon	19-50 mm	3/4"	21	1122

Drive Tools / Accessory, 3/4"	
Reversible Ratchet, 3/4", 500 mm	22550
Extension Bar, 3/4", 100 mm	22500
Extension Bar, 3/4", 200 mm	22505
Extension Bar, 3/4", 400 mm	22510
Sliding T-Bar, 3/4", 450 mm	22520

Socket Set, 15 pcs., 3/4", hex 19-50 mm

Content		24 mm	22600-24	38 mm	22600-38
hexagon		27 mm	22600-27	41 mm	22600-41
3/4", standard		30 mm	22600-30	46 mm	22600-46
19 mm	22600-19	32 mm	22600-32	50 mm	22600-50
22 mm	22600-22	36 mm	22600-36		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	hexagon	19-50 mm	3/4"	15	1015

Drive Tools / Accessory, 3/4"	
Reversible Ratchet, 3/4", 500 mm	22550
Extension Bar, 3/4", 100 mm	22500
Extension Bar, 3/4", 200 mm	22505
Sliding T-Bar, 3/4", 450 mm	22520

Socket Set, 16 pcs., 1", hex 36-80 mm

Content					
hexagon		41 mm	22800-41	65 mm	22800-65
1", standard		46 mm	22800-46	70 mm	22800-70
36 mm	22800-36	50 mm	22800-50	75 mm	22800-75
38 mm	22800-38	55 mm	22800-55	80 mm	22800-80
		60 mm	22800-60		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	hexagon	36-80 mm	1"	16	1116

Drive Tools / Accessory, 1"	
Reversible Ratchet, 2 pcs., 1", ratchet head + handle, 675 mm	22760
Extension Bar, 1", 200 mm	22700
Extension Bar, 1", 400 mm	22705
T-Head, for sliding t-bar, 1"	22720

Socket Set, xcess performance, 13 pcs., 1/4", hex 4-14 mm

Content					
hexagon		5.5 mm	23000-5.5	11 mm	23000-11
1/4", standard		6 mm	23000-6	12 mm	23000-12
4 mm	23000-4	7 mm	23000-7	13 mm	23000-13
4.5 mm	23000-4.5	8 mm	23000-8	14 mm	23000-14
5 mm	23000-5	9 mm	23000-9		
		10 mm	23000-10		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	hexagon	4-14 mm	1/4"	13	23100

Socket Set, xcess performance, 12 pcs., 1/4", deep, hex 4-14 mm

Content					
hexagon		5.5 mm	23077-5.5	10 mm	23077-10
1/4", deep		6 mm	23077-6	11 mm	23077-11
4 mm	23077-4	7 mm	23077-7	12 mm	23077-12
5 mm	23077-5	8 mm	23077-8	13 mm	23077-13
		9 mm	23077-9	14 mm	23077-14

Item	Profile	Size	Drive	Length	pcs	Art. No.
Deep Socket Set	hexagon	4-14 mm	1/4"	tief	12	23177

Socket Set, xcess performance, 12 pcs., 3/8", hex 8-19 mm

Content					
hexagon		10 mm	25000-10	15 mm	25000-15
3/8", standard		11 mm	25000-11	16 mm	25000-16
8 mm	25000-8	12 mm	25000-12	17 mm	25000-17
9 mm	25000-9	13 mm	25000-13	18 mm	25000-18
		14 mm	25000-14	19 mm	25000-19

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	hexagon	8-19 mm	3/8"	12	25100

Socket Set, xcess performance, 12 pcs., 3/8", deep, hex 8-19 mm

Content					
hexagon		10 mm	25077-10	15 mm	25077-15
3/8", deep		11 mm	25077-11	16 mm	25077-16
8 mm	25077-8	12 mm	25077-12	17 mm	25077-17
9 mm	25077-9	13 mm	25077-13	18 mm	25077-18
		14 mm	25077-14	19 mm	25077-19

Item	Profile	Size	Drive	Length	pcs	Art. No.
Deep Socket Set	hexagon	8-19 mm	3/8"	tief	12	25177

Socket Set, xcess performance, 12 pcs., 1/2", hex 10-22 mm

Content		12 mm	27000-12	17 mm	27000-17
hexagon		13 mm	27000-13	18 mm	27000-18
1/2", standard		14 mm	27000-14	19 mm	27000-19
10 mm	27000-10	15 mm	27000-15	21 mm	27000-21
11 mm	27000-11	16 mm	27000-16	22 mm	27000-22

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	hexagon	10-22 mm	1/2"	12	27100

Socket Set, xcess performance, 10 pcs., 1/2", deep, hex 10-24 mm

Content		14 mm	27077-14	19 mm	27077-19
hexagon		15 mm	27077-15	22 mm	27077-22
1/2", deep		16 mm	27077-16	24 mm	27077-24
10 mm	27077-10	17 mm	27077-17		
13 mm	27077-13	18 mm	27077-18		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	hexagon	10-24 mm	1/2"	10	27177

Deep Socket Set, 13 pcs., 1/4", hex 4-14 mm

Content		5.5 mm	21299-5.5	11 mm	21299-11
hexagon		6 mm	21299-6	12 mm	21299-12
1/4", deep		7 mm	21299-7	13 mm	21299-13
4 mm	21299-4	8 mm	21299-8	14 mm	*21299-14*
4.5 mm	*21299-4.5*	9 mm	21299-9		
5 mm	21299-5	10 mm	21299-10		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	hexagon	4-14 mm	1/4"	13	21290

Deep Socket Set, 11 pcs., 1/4", hex 4-13 mm

Content		5.5 mm	21299-5.5	10 mm	21299-10
hexagon		6 mm	21299-6	11 mm	21299-11
1/4", deep		7 mm	21299-7	12 mm	21299-12
4 mm	21299-4	8 mm	21299-8	13 mm	21299-13
5 mm	21299-5	9 mm	21299-9		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	hexagon	4-13 mm	1/4"	11	1009-14

Deep Socket Set, 14 pcs., 3/8", hex 6-19 mm

Content		9 mm	21699-9	15 mm	21699-15
hexagon		10 mm	21699-10	16 mm	21699-16
3/8", deep		11 mm	21699-11	17 mm	21699-17
6 mm	*21699-6*	12 mm	21699-12	18 mm	21699-18
7 mm	*21699-7*	13 mm	21699-13	19 mm	21699-19
8 mm	21699-8	14 mm	21699-14		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	hexagon	6-19 mm	3/8"	14	21690

Deep Socket Set, 11 pcs., 3/8", hex 8-19 mm

Content		11 mm	21699-11	16 mm	21699-16
hexagon		12 mm	21699-12	17 mm	21699-17
3/8", deep		13 mm	21699-13	18 mm	21699-18
8 mm	21699-8	14 mm	21699-14	19 mm	21699-19
10 mm	21699-10	15 mm	21699-15		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	hexagon	8-19 mm	3/8"	11	1009-38

Deep Socket Set, 12 pcs., 1/2", hex 8-24 mm

Content		13 mm	22099-13	18 mm	22099-18
hexagon		14 mm	22099-14	19 mm	22099-19
1/2", deep		15 mm	22099-15	21 mm	22099-21
8 mm	*22099-8*	16 mm	22099-16	22 mm	22099-22
10 mm	22099-10	17 mm	22099-17	24 mm	22099-24

Item	Profile	Size	Drive	Art. No.
Deep Socket Set	hexagon	8-24 mm	1/2"	22090

Deep Socket Set, 10 pcs., 1/2", hex 10-24 mm

Content		14 mm	22099-14	19 mm	22099-19
hexagon		15 mm	22099-15	22 mm	22099-22
1/2", deep		16 mm	22099-16	24 mm	22099-24
10 mm	22099-10	17 mm	22099-17		
13 mm	22099-13	18 mm	22099-18		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	hexagon	10-24 mm	1/2"	10	1009-12

Socket Set, 18 pcs., 1/2", hex 8-32 mm

Content		12 mm	22088-12	19 mm	22088-19
hexagon		13 mm	22088-13	21 mm	22088-21
1/2", standard		14 mm	22088-14	22 mm	22088-22
8 mm	22088-8	15 mm	22088-15	24 mm	22088-24
9 mm	22088-9	16 mm	22088-16	27 mm	22088-27
10 mm	22088-10	17 mm	22088-17	30 mm	22088-30
11 mm	22088-11	18 mm	22088-18	32 mm	22088-32

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	hexagon	8-32 mm	1/2"	18	1196

Universal Joint Socket Set, 10 pcs., 3/8", hex 10-19 mm

Content		11 mm	*198-11*	14 mm	*198-14*	17 mm	*198-17*
hexagon		12 mm	*198-12*	15 mm	*198-15*	18 mm	*198-18*
10 mm	*198-10*	13 mm	*198-13*	16 mm	*198-16*	19 mm	*198-19*

Item	Profile	Size	Drive	pcs	Art. No.
Universal Joint Socket Set	hexagon	10-19 mm	3/8"	10	198

Narrow-Space

2

Specialist Bit Set, 37 pcs.

- suitable for working in confined spaces
- height incl. bit: 23.2 mm

Content		T27	21373-27	M8	21371-8
Hexagon		T30	21373-30	M10	21371-10
3 mm	21372-3	T40	21373-40	Plain Slot	
4 mm	21372-4	T45	21373-45	4 mm	21377-4
5 mm	21372-5	TX-Star tamperproof		5.5 mm	21377-5.5
6 mm	21372-6	T15	21374-15	6.5 mm	21377-6.5
7 mm	21372-7	T20	21374-20	Cross Slot PH	
8 mm	21372-8	T25	21374-25	PH0	21378-0
10 mm	21372-10	T30	21374-30	PH1	21378-1
TX-Star T		T40	21374-40	PH2	21378-2
T8	21373-8	T45	21374-45	PH3	21378-3
T10	21373-10	Spline		Cross Slot PZ	
T15	21373-15	M4	21371-4	PZ1	21379-1
T20	21373-20	M5	21371-5	PZ2	21379-2
T25	21373-25	M6	21371-6		

Miscellaneous Tools	
Double Head Ratchet Spanner, 8x10 mm	4075-8x10

Item	Drive	pcs	Art. No.
Specialist Bit Set	8+10 mm hex	37	2137

Go-Through Socket Set, 44 pcs.

- extra flat reversible ratchet for working in confined spaces
- go-through hexagon sockets for working on stud bolts
- height incl. socket / bit: 25.5 mm

Content		10 mm	21442-10	Spline	
hexagon		TX-Star T		M4	21441-4
6 mm	21440-6	T15	21443-15	M5	21441-5
7 mm	21440-7	T20	21443-20	M6	21441-6
8 mm	21440-8	T25	21443-25	M8	21441-8
9 mm	21440-9	T27	21443-27	M10	21441-10
10 mm	21440-10	T30	21443-30	M12	21441-12
11 mm	21440-11	T40	21443-40	Spline (for Ribe)	
12 mm	21440-12	T45	21443-45	M5	21445-5
13 mm	21440-13	TX-Star tamperproof		M6	21445-6
14 mm	21440-14	T15	21444-15	M7	21445-7
Hexagon		T20	21444-20	M8	21445-8
4 mm	21442-4	T25	21444-25	M10	21445-10
5 mm	21442-5	T27	21444-27	M12	21445-12
6 mm	21442-6	T30	21444-30	M13	21445-13
7 mm	21442-7	T40	21444-40		
8 mm	21442-8	T45	21444-45		

Miscellaneous Tools	
Reversible Ratchet, 12.5 mm in-take, 72 teeth	2144-KN
Adapter, for 3/8" sockets	2144-AD

Item	Drive	pcs	Art. No.
Go-Through Socket Set	12.5 mm hex	44	2144

Varioplus

Socket Set, 98 pcs., 1/4+1/2", varioplus 4-32 mm

Content		20 mm	22055-20	T45	17033-45
Varioplus		21 mm	22055-21	T50	17033-50
1/4", standard		22 mm	22055-22	T55	17033-55
4 mm	21255-4	24 mm	22055-24	T60	17033-60
4.5 mm	21255-4.5	27 mm	22055-27	Plain Slot	
5 mm	21255-5	30 mm	22055-30	1/4", 37 mm long	
5.5 mm	21255-5.5	32 mm	22055-32	4 mm	14077-4
6 mm	21255-6	1/2", deep		5.5 mm	14077-5.5
7 mm	21255-7	14 mm	22066-14	6.5 mm	14077-6.5
8 mm	21255-8	15 mm	22066-15	8 mm bit, 30 mm	
9 mm	21255-9	17 mm	22066-17	7 mm	*17077-7*
10 mm	21255-10	19 mm	22066-19	8 mm	*17077-8*
11 mm	21255-11	22 mm	22066-22	10 mm	*17077-10*
12 mm	21255-12	Hexagon		12 mm	*17077-12*
13 mm	21255-13	1/4", 37 mm long		Cross Slot PH	
14 mm	21255-14	3 mm	14022-3	1/4", 37 mm long	
1/4", deep		4 mm	14022-4	PH0	*14088-0*
6 mm	21266-6	5 mm	14022-5	PH1	14088-1
7 mm	21266-7	6 mm	14022-6	PH2	14088-2
8 mm	21266-8	8 mm bit, 30 mm		8 mm bit, 30 mm	
9 mm	21266-9	7 mm	17022-7	PH3	*17088-3*
10 mm	21266-10	8 mm	17022-8	PH4	*17088-4*
11 mm	21266-11	10 mm	17022-10	Cross Slot PZ	
12 mm	21266-12	12 mm	17022-12	1/4", 37 mm long	
13 mm	21266-13	14 mm	17022-14	PZ0	*14099-0*
1/2", standard		TX-Star T		PZ1	*14099-1*
10 mm	22055-10	1/4", 37 mm long		PZ2	*14099-2*
11 mm	22055-11	T8	14033-8	8 mm bit, 30 mm	
12 mm	22055-12	T10	14033-10	PZ3	*17099-3*
13 mm	22055-13	T15	14033-15	PZ4	*17099-4*
14 mm	22055-14	T20	14033-20	Spark Plug Sockets	
15 mm	22055-15	T25	14033-25	1/2", standard	
16 mm	22055-16	T27	14033-27	16 mm	209A
17 mm	22055-17	T30	14033-30	21 mm	209
18 mm	22055-18	8 mm bit, 30 mm			
19 mm	22055-19	T40	17033-40		

Item	Size	Drive	pcs	Art. No.
Socket Set	4-32 mm	1/4+1/2"	98	37197

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 140 mm	1218-1
Spinner Handle, 1/4", 150 mm	21116
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1218-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	21901
Bit Holding Socket, 1/2", for 8 mm bits	20621
Universal Joint, 1/2"	21925
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

Go-Through Socket Set, 17 pcs., varioplus 10-24 mm

- go-through sockets for working on stud bolts

Content					
Varioplus		13 mm	*2117-13*	18 mm	*2117-18*
10 mm	*2117-10*	14 mm	*2117-14*	19 mm	*2117-19*
11 mm	*2117-11*	15 mm	*2117-15*	21 mm	*2117-21*
12 mm	*2117-12*	16 mm	*2117-16*	22 mm	*2117-22*
		17 mm	*2117-17*	24 mm	*2117-24*

Item	Profile	Size	Drive	pcs	Art. No.
Go-Through Socket Set	Varioplus	10-24 mm	19 mm hex	17	2117

Miscellaneous Tools	
Reversible Ratchet, 19 mm in-take, 60 teeth	*2117-KN*
Open Extension, 75 mm	*2117-VL*
Quick-Release Adapter, for 1/4" sq. drive	*2117-A14*
Quick-Release Adapter, for 3/8" sq. drive	*2117-A38*

Socket Set, 13 pcs., 1/4", varioplus 4-14 mm

Content					
Varioplus		5.5 mm	21255-5.5	11 mm	21255-11
1/4", standard		6 mm	21255-6	12 mm	21255-12
4 mm	21255-4	7 mm	21255-7	13 mm	21255-13
4.5 mm	21255-4.5	8 mm	21255-8	14 mm	21255-14
5 mm	21255-5	9 mm	21255-9		
		10 mm	21255-10		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	Varioplus	4-14 mm	1/4"	13	2113

Socket Set, 16 pcs., 1/2", varioplus 8-24 mm

Content					
Varioplus		12 mm	22055-12	19 mm	22055-19
1/2", standard		13 mm	22055-13	20 mm	22055-20
8 mm	22055-8	14 mm	22055-14	21 mm	22055-21
9 mm	22055-9	15 mm	22055-15	22 mm	22055-22
10 mm	22055-10	16 mm	22055-16	24 mm	22055-24
11 mm	22055-11	17 mm	22055-17		
		18 mm	22055-18		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	Varioplus	8-24 mm	1/2"	16	2116

Socket Set, 98 pcs., 1/4+1/2", hex 5/32-1.1/4"

Content		13/16"	12Z-13-16	T50	17033-50
Hexagon inch		7/8"	12Z-7-8	T55	17033-55
1/4", standard		15/16"	12Z-15-16	T60	17033-60
5/32"	14Z-5-32	1"	12Z1-1	T70	17033-70
3/16"	14Z-3-16	1.1/16"	12Z1-1-16	TX-Star tamperproof	
7/32"	14Z-7-32	1.1/8"	12Z1-1-8	1/4", 37 mm long	
1/4"	14Z-1-4	1.1/4"	12Z1-1-4	T10	14044-10
9/32"	14Z-9-32	1/2", deep		T15	14044-15
5/16"	14Z-5-16	9/16"	22Z-9-16	T20	14044-20
11/32"	14Z-11-32	5/8"	22Z-5-8	T25	14044-25
3/8"	14Z-3-8	11/16"	22Z-11-16	T27	14044-27
13/32"	14Z-13-32	3/4"	22Z-3-4	T30	14044-30
7/16"	14Z-7-16	7/8"	22Z-7-8	8 mm bit, 30 mm	
15/32"	14Z-15-32	Hexagon inch		T40	17044-40
1/2"	14Z-1-2	1/4", 37 mm long		T45	17044-45
9/16"	*14Z-9-16*	1/8"	*7181-18*	T50	17044-50
1/4", deep		5/32"	*7181-532*	T55	17044-55
1/4"	24Z-1-4	3/16"	*7181-316*	Plain Slot inch	
9/32"	24Z-9-32	1/4"	*7181-14*	1/4", 37 mm long	
5/16"	24Z-5-16	8 mm bit, 30 mm		5/32"	*14077Z-1*
11/32"	24Z-11-32	9/32"	*17882-2*	3/16"	*14077Z-2*
3/8"	24Z-3-8	5/16"	*17882-3*	8 mm bit, 30 mm	
7/16"	24Z-7-16	3/8"	*17882-4*	1/4"	*17997-0*
15/32"	*24Z-15-32*	7/16"	*17882-5*	5/16"	*17997-1*
1/2"	24Z-1-2	1/2"	*17882-6*	Cross Slot PH	
1/2", standard		TX-Star T		1/4", 37 mm long	
3/8"	12Z-3-8	1/4", 37 mm long		PH1	14088-1
7/16"	12Z-7-16	T10	14033-10	PH2	14088-2
15/32"	*12Z-15-32*	T15	14033-15	8 mm bit, 30 mm	
1/2"	12Z-1-2	T20	14033-20	PH3	*17088-3*
9/16"	12Z-9-16	T25	14033-25	Spark Plug Sockets	
19/32"	12Z-19-32	T27	14033-27	1/2", standard	
5/8"	12Z-5-8	T30	14033-30	5/8"	*209Z-5-8*
11/16"	12Z-11-16	8 mm bit, 30 mm		13/16"	*209Z-13-16*
3/4"	12Z-3-4	T40	17033-40		
25/32""	*12Z-25-32*	T45	17033-45		

Item	Size	Drive	pcs	Art. No.
Socket Set	5/32-1.1/4"	1/4+1/2"	98	37198Z

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 140 mm	1218-1
Spinner Handle, 1/4", 150 mm	21116
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 250 mm	1218-3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	21901
Universal Joint, 1/2"	21925
Bit Holding Socket, 1/2", for 8 mm bits	20621
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

Socket Bit Set,11 pcs., 1/2", hex inch 3/16-3/4"

Content		1/4"	*5111-14*	1/2"	*5111-12*
Hexagon inch		9/32"	*5111-932*	9/16"	*5111-916*
1/2", 55 mm long		5/16"	*5111-516*	5/8"	*5111-58*
3/16"	*5111-316*	3/8"	*5111-38*	3/4"	*5111-34*
7/32"	*5111-732*	7/16"	*5111-716*		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon inch	3/16-3/4"	1/2"	11	5111

Socket Bit Set, 7 pcs., 3/8", hex inch 1/8-3/8"

Content		5/32"	*5107-532*	5/16"	*5107-516*
Hexagon inch		3/16"	*5107-316*	3/8"	*5107-38*
3/8", 48 mm long		7/32"	*5107-732*		
1/8"	*5107-18*	1/4"	*5107-14*		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon inch	1/8-3/8"	3/8"	7	5107

2

Inch Tool Set, 81 pcs., 1/4+3/8+1/2", hex inch 5/32-1.1/4"

Miscellaneous Tools	
Hex Key Set, 9 pcs., 1/16-3/8"	*2172WKS*

Content		5/8"	*13Z-5-8*	5/32"	*7181-532*
Hexagon inch		11/16"	*13Z-11-16*	3/16"	*7181-316*
1/4", standard		3/8", deep		7/32"	*7181-732*
5/32"	14Z-5-32	1/2"	*23Z-1-2*	1/4"	*7181-14*
3/16"	14Z-3-16	9/16"	*23Z-9-16*	3/8", 48 mm long	
7/32"	14Z-7-32	5/8"	*23Z-5-8*	3/16"	*5107-316*
1/4"	14Z-1-4	1/2", standard		7/32"	*5107-732*
9/32"	14Z-9-32	3/8"	12Z-3-8	1/4"	*5107-14*
5/16"	14Z-5-16	7/16"	12Z-7-16	5/16"	*5107-516*
11/32"	14Z-11-32	1/2"	12Z-1-2	3/8"	*5107-38*
3/8"	14Z-3-8	9/16"	12Z-9-16	1/2", 55 mm long	
13/32"	14Z-13-32	5/8"	12Z-5-8	5/16"	*7181-516*
7/16"	14Z-7-16	11/16"	12Z-11-16	3/8"	*7181-38*
15/32"	14Z-15-32	3/4"	12Z-3-4	7/16"	*7181-716*
1/2"	14Z-1-2	13/16"	12Z-13-16	1/2"	*7181-12*
1/4", deep		7/8"	12Z-7-8	9/16"	*7181-916*
1/4"	24Z-1-4	15/16"	12Z-15-16	5/8"	*7181-58*
5/16"	24Z-5-16	1"	12Z1-1	Spanners	
3/8"	24Z-3-8	1.1/16"	12Z1-1-16	Combination Spanner	
7/16"	24Z-7-16	1.1/8"	12Z1-1-8	1/4"	*21Z-1-4*
1/2"	24Z-1-2	1.1/4"	12Z1-1-4	5/16"	*21Z-5-16*
3/8", standard		1/2", deep		3/8"	*21Z-3-8*
5/16"	*13Z-5-16*	11/16"	22Z-11-16	7/16"	*21Z-7-16*
11/32"	*13Z-11-32*	3/4"	22Z-3-4	1/2"	*21Z-1-2*
3/8"	*13Z-3-8*	13/16"	22Z-13-16	9/16"	*21Z-9-16*
7/16"	*13Z-7-16*	7/8"	22Z-7-8	5/8"	*21Z-5-8*
1/2"	*13Z-1-2*	Hexagon inch		11/16"	*21Z-11-16*
9/16"	*13Z-9-16*	1/4", 37 mm long		3/4"	*21Z-3-4*
19/32"	*13Z-19-32*	1/8"	*7181-18*		

Item	Size	Drive	pcs	Art. No.
Inch Tool Assortment	5/32-1.1/4"	1/4+3/8+1/2"	81	37181

Socket Set, 71 pcs., 3/8", hex inch 1/4-15/16"

Drive Tools / Accessory, 3/8"	
Extension Bar, 3/8", 250 mm	*21510*
Sliding T-Head, 3/8"	21501
Universal Joint, 3/8"	21525
Adapter, 3/8" square x 3/8" hexagon	*20631*
Bit Holder, 3/8", for 8 mm bits	20623
Reversible Ratchet, 3/8", 205 mm	1205-2
Wobble Extension Bar, 3/8", 75 mm	20383-75

Content		3/8", deep		3/8", 48 mm long		Plain Slot inch	
Hexagon inch		5/16"	*23Z-5-16*	T15	13033-15	3/8", 48 mm long	
3/8", standard		3/8"	*23Z-3-8*	T20	13033-20	7/32"	*2171-732*
1/4"	*13Z-1-4*	13/32"	*23Z-13-32*	T25	13033-25	9/32"	*2171-932*
9/32"	*13Z-9-32*	7/16"	*23Z-7-16*	T27	13033-27	5/16"	*2171-516*
5/16"	*13Z-5-16*	15/32"	*23Z-15-32*	T30	13033-30	Cross Slot PH	
11/32"	*13Z-11-32*	1/2"	*23Z-1-2*	T40	13033-40	3/8", 48 mm long	
3/8"	*13Z-3-8*	9/16"	*23Z-9-16*	T45	13033-45	PH1	*13088-1*
13/32"	*13Z-13-32*	5/8"	*23Z-5-8*	T50	13033-50	PH2	*13088-2*
7/16"	*13Z-7-16*	11/16"	*23Z-11-16*	T55	13033-55	PH3	*13088-3*
15/32"	*13Z-15-32*	3/4"	*23Z-3-4*	TX-Star tamperproof		Cross Slot PZ	
1/2"	*13Z-1-2*	Hexagon inch		8 mm bit, 30 mm		3/8", 48 mm long	
9/16"	*13Z-9-16*	3/8", 48 mm long		T15	17044-15	PZ1	*13099-1*
19/32"	*13Z-19-32*	1/8"	*5107-18*	T20	17044-20	PZ2	*13099-2*
5/8"	*13Z-5-8*	5/32"	*5107-532*	T25	17044-25	PZ3	*13099-3*
11/16"	*13Z-11-16*	3/16"	*5107-316*	T27	17044-27	Spark Plug Sockets	
3/4"	*13Z-3-4*	1/4"	*5107-14*	T30	17044-30	3/8", standard	
25/32"	*13Z-25-32*	9/32"	*5107-932*	T40	17044-40	5/8"	*209-5-8*
13/16"	*13Z-13-16*	5/16"	*5107-516*	T45	17044-45	13/16"	*209-13-16*
7/8"	*13Z-7-8*	3/8"	*5107-38*	T50	17044-50		
15/16"	*13Z-15-16*	TX-Star T		T55	17044-55		

Item	Size	Drive	pcs	Art. No.
Socket Set	1/4-15/16"	3/8"	71	2171ZOLL

Socket Set, 92 pcs., 1/4+3/8", hex inch 5/32-1"

Content		9/16"	*23Z-9-16*	5/16"	*16997-3*
Hexagon inch		5/8"	*23Z-5-8*	8 mm bit, 30 mm	
1/4", standard		11/16"	*23Z-11-16*	5/16"	*17997-1*
5/32"	14Z-5-32	3/4"	*23Z-3-4*	3/8"	*17997-2*
3/16"	14Z-3-16	Hexagon inch		Cross Slot PH	
7/32"	14Z-7-32	1/4" bit, 25 mm		1/4" bit, 25 mm	
1/4"	14Z-1-4	1/8"	*16882-5*	PH1	*16088-1*
9/32"	14Z-9-32	5/32"	*16882-7*	PH2	*16088-2*
5/16"	14Z-5-16	3/16"	*16882-8*	PH3	*16088-3*
11/32"	14Z-11-32	1/4"	*16882-10*	Cross Slot PZ	
3/8"	14Z-3-8	8 mm bit, 30 mm		1/4" bit, 25 mm	
7/16"	14Z-7-16	1/4"	*17882-1*	PZ1	*16099-1*
1/2"	14Z-1-2	9/32"	*17882-2*	PZ2	*16099-2*
1/4", deep		5/16"	*17882-3*	PZ3	*16099-3*
1/4"	24Z-1-4	3/8"	*17882-4*	Spark Plug Sockets	
5/16"	24Z-5-16	TX-Star T		3/8", standard	
3/8"	24Z-3-8	1/4" bit, 25 mm		5/8"	*209-5-8*
7/16"	24Z-7-16	T10	16033-10	3/4"	*209-3-4*
1/2"	24Z-1-2	T15	16033-15	13/16"	*209-13-16*
3/8", standard		T20	16033-20	Spanners	
1/2"	*13Z-1-2*	T25	16033-25	Combination Spanner	
9/16"	*13Z-9-16*	T30	16033-30	1/4"	*21Z-1-4*
19/32"	*13Z-19-32*	T40	16033-40	5/16"	*21Z-5-16*
5/8"	*13Z-5-8*	8 mm bit, 30 mm		3/8"	*21Z-3-8*
11/16"	*13Z-11-16*	T40	17033-40	7/16"	*21Z-7-16*
3/4"	*13Z-3-4*	T45	17033-45	1/2"	*21Z-1-2*
25/32"	*13Z-25-32*	T50	17033-50	9/16"	*21Z-9-16*
13/16"	*13Z-13-16*	T55	17033-55	5/8"	*21Z-5-8*
7/8"	*13Z-7-8*	Plain Slot inch		11/16"	*21Z-11-16*
15/16"	*13Z-15-16*	1/4" bit, 25 mm		3/4"	*21Z-3-4*
1"	*13Z1-1*	5/32"	*16997-1*		
3/8", deep		1/4"	*16997-2*		

Item	Size	Drive	pcs	Art. No.
Socket Set	5/32-1"	1/4+3/8"	92	2172

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 140 mm	1215-1
Extension Bar, 1/4", 75 mm	21103
Sliding T-Bar, 1/4", 115 mm	21120
Spinner Handle, 1/4", 150 mm	21117
Bit Holder, 1/4", for 1/4" bits	20624
Universal Joint, 1/4"	21125
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 200 mm	1215-2
Extension Bar, 3/8", 75 mm	21500
Extension Bar, 3/8", 150 mm	21505
Bit Holder, 3/8", for 8 mm bits	20623
Socket Converter, 3/8" F x 1/4" M	20602
Universal Joint, 3/8"	21525
Miscellaneous Tools	
Hex Key Set, 9 pcs., 1/16-3/8"	*2172WKS*

Socket Set, 24 pcs., 1/4+1/2", hex inch 5/32-1.1/4"

Content		9/32"	14Z-9-32	1/2", standard		13/16"	12Z-13-16
Hexagon inch		5/16"	14Z-5-16	1/2"	12Z-1-2	7/8"	12Z-7-8
1/4", standard		11/32"	14Z-11-32	9/16"	12Z-9-16	15/16"	12Z-15-16
5/32"	14Z-5-32	3/8"	14Z-3-8	19/32"	12Z-19-32	1"	12Z1-1
3/16"	14Z-3-16	13/32"	14Z-13-32	5/8"	12Z-5-8	1.1/16"	12Z1-1-16
7/32"	14Z-7-32	7/16"	14Z-7-16	11/16"	12Z-11-16	1.1/8"	12Z1-1-8
1/4"	14Z-1-4	15/32"	14Z-15-32	3/4"	12Z-3-4	1.1/4"	12Z1-1-4

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	Hexagon inch	5/32-1.1/4"	1/4+1/2"	24	1194

Socket Set, 10 pcs., 1/2", hex inch 3/8-15/16"

Content	1/2"	12Z-1-2	13/16"	12Z-13-16
Hexagon inch	9/16"	12Z-9-16	7/8"	12Z-7-8
1/2", standard	5/8"	12Z-5-8	15/16"	12Z-15-16
3/8"	12Z-3-8	11/16"	12Z-11-16	
7/16"	12Z-7-16	3/4"	12Z-3-4	

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	Hexagon inch	3/8-15/16"	1/2"	10	5110

Socket Set, 11 pcs., 1/4", hex inch 3/16-1/2"

Content		1/4"	14Z-1-4	13/32"	14Z-13-32
Hexagon inch		9/32"	14Z-9-32	7/16"	14Z-7-16
1/4", standard		5/16"	14Z-5-16	15/32"	14Z-15-32
3/16"	14Z-3-16	11/32"	14Z-11-32	1/2"	14Z-1-2
7/32"	14Z-7-32	3/8"	14Z-3-8		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	Hexagon inch	3/16-1/2"	1/4"	11	21211

Socket Set, 10 pcs., 1/4", deep, hex inch 5/32-1/2"

Content		7/32"	24Z-7-32	3/8"	24Z-3-8
Hexagon inch		1/4"	24Z-1-4	7/16"	24Z-7-16
1/4", deep		9/32"	24Z-9-32	1/2"	24Z-1-2
5/32"	24Z-5-32	5/16"	24Z-5-16		
3/16"	24Z-3-16	11/32"	24Z-11-32		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	Hexagon inch	5/32-1/2"	1/4"	10	21212

Socket Set, 11 pcs., 3/8", hex inch 5/16-13/16"

Content		7/16"	*13Z-7-16*	5/8"	*13Z-5-8*
Hexagon inch		15/32"	*13Z-15-32*	11/16"	*13Z-11-16*
3/8", standard		1/2"	*13Z-1-2*	3/4"	*13Z-3-4*
5/16"	*13Z-5-16*	9/16"	*13Z-9-16*	13/16"	*13Z-13-16*
3/8"	*13Z-3-8*	19/32"	*13Z-19-32*		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	Hexagon inch	5/16-13/16"	3/8"	11	21611

Socket Set, 9 pcs., 3/8", deep, hex inch 5/16-13/16"

Content		3/8"	*23Z-3-8*	5/8"	*23Z-5-8*
Hexagon inch		7/16"	*23Z-7-16*	11/16"	*23Z-11-16*
3/8", deep		1/2"	*23Z-1-2*	3/4"	*23Z-3-4*
5/16"	*23Z-5-16*	9/16"	*23Z-9-16*	13/16"	*23Z-13-16*

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	Hexagon inch	5/16-13/16"	3/8"	9	21612

Socket Set, 8 pcs., 1/2", deep, hex inch 1/2-15/16"

Content		9/16"	22Z-9-16	13/16"	22Z-13-16
Hexagon inch		5/8"	22Z-5-8	7/8"	22Z-7-8
1/2", deep		11/16"	22Z-11-16	15/16"	22Z-15-16
1/2"	22Z-1-2	3/4"	22Z-3-4		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	Hexagon inch	1/2-15/16"	1/2"	8	22112

Socket Set, 27 pcs., 3/4", bi-hex 19-60 mm

Content					
bi-hexagon		27 mm	29044-27	38 mm	29044-38
3/4", standard		28 mm	29044-28	40 mm	29044-40
19 mm	29044-19	29 mm	29044-29	41 mm	29044-41
21 mm	29044-21	30 mm	29044-30	46 mm	29044-46
22 mm	29044-22	32 mm	29044-32	50 mm	29044-50
23 mm	29044-23	33 mm	29044-33	55 mm	29044-55
24 mm	29044-24	34 mm	29044-34	60 mm	29044-60
26 mm	29044-26	35 mm	29044-35		
		36 mm	29044-36		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	bi-hexagon	19-60 mm	3/4"	27	38133

Drive Tools / Accessory, 3/4"	
Reversible Ratchet, 3/4", 500 mm	29550
Extension Bar, 3/4", 100 mm	29810
Extension Bar, 3/4", 200 mm	29820
Extension Bar, 3/4", 400 mm	29840
Sliding T-Bar, 3/4", 450 mm	29901

Socket Set, 21 pcs., 3/4", bi-hex 19-50 mm

Content					
bi-hexagon		24 mm	22644-24	36 mm	22644-36
3/4", standard		26 mm	22644-26	38 mm	22644-38
19 mm	22644-19	27 mm	22644-27	41 mm	22644-41
21 mm	22644-21	28 mm	22644-28	46 mm	22644-46
22 mm	22644-22	30 mm	22644-30	50 mm	22644-50
23 mm	22644-23	32 mm	22644-32		
		34 mm	22644-34		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	bi-hexagon	19-50 mm	3/4"	21	1123

Drive Tools / Accessory, 3/4"	
Reversible Ratchet, 3/4", 500 mm	22550
Extension Bar, 3/4", 100 mm	22500
Extension Bar, 3/4", 200 mm	22505
Extension Bar, 3/4", 400 mm	22510
Sliding T-Bar, 3/4", 450 mm	22520

Socket Set, 10 pcs., 1/2", deep, bi-hex 10-24 mm

Content					
bi-hexagon		14 mm	*22033-14*	19 mm	*22033-19*
1/2", deep		15 mm	*22033-15*	22 mm	*22033-22*
10 mm	*22033-10*	16 mm	*22033-16*	24 mm	*22033-24*
13 mm	*22033-13*	17 mm	*22033-17*		
		18 mm	*22033-18*		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	bi-hexagon	10-24 mm	1/2"	10	22447

Socket Set, 21 pcs., 1/2", bi-hex 8-36 mm

Content					
bi-hexagon		13 mm	22044-13	21 mm	22044-21
1/2", standard		14 mm	22044-14	22 mm	22044-22
8 mm	22044-8	15 mm	22044-15	24 mm	22044-24
9 mm	22044-9	16 mm	22044-16	27 mm	22044-27
10 mm	22044-10	17 mm	22044-17	30 mm	22044-30
11 mm	22044-11	18 mm	22044-18	32 mm	22044-32
12 mm	22044-12	19 mm	22044-19	34 mm	22044-34
		20 mm	22044-20	36 mm	22044-36

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	bi-hexagon	8-36 mm	1/2"	21	1021

Socket Set, 16 pcs., 1/2", bi-hex 8-24 mm

Content					
bi-hexagon		12 mm	22044-12	19 mm	22044-19
1/2", standard		13 mm	22044-13	20 mm	22044-20
8 mm	22044-8	14 mm	22044-14	21 mm	22044-21
9 mm	22044-9	15 mm	22044-15	22 mm	22044-22
10 mm	22044-10	16 mm	22044-16	24 mm	22044-24
11 mm	22044-11	17 mm	22044-17		
		18 mm	22044-18		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	bi-hexagon	8-24 mm	1/2"	16	1016-12K

TX-Star

Socket Set, 26 pcs., 1/4+3/8+1/2", TX-Star Plus

- flatter flanks compared to standard T-profile
- more torque due to optimal frictional connection
- higher durability due to better fit on the screw
- for loosening bolts on belt fasteners, casing covers of timing belts and timing chains, fly-wheels, clutches, gearboxes, etc.
- for use with Audi, Fiat, Ford, Nissan, Opel, Porsche, Renault, Seat, Skoda, VW, etc.
- TP8, 10, 15, 20, 25, 27, 30, 40, 45, 50, 55, 60
- EP4, 5, 6, 7, 8, 10, 11, 12, 14, 16, 18, 20, 22, 24

Content		TP45	*12990-45*	EP10	*22425-10*
TX-Star Plus		TP50	*12990-50*	EP11	*22425-11*
1/4", 37 mm long		TP55	*12990-55*	EP12	*22425-12*
TP8	*14990-8*	TP60	*12990-60*	EP14	*22425-14*
TP10	*14990-10*	E-Plus		EP16	*22425-16*
TP15	*14990-15*	1/4", standard		1/2", standard	
TP20	*14990-20*	EP4	*22405-4*	EP18	*22445-18*
TP25	*14990-25*	EP5	*22405-5*	EP20	*22445-20*
TP27	*14990-27*	EP6	*22405-6*	EP22	*22445-22*
TP30	*14990-30*	EP7	*22405-7*	EP24	*22445-24*
1/2", 55 mm long		EP8	*22405-8*		
TP40	*12990-40*	3/8", standard			

Item	Profile	Size	pcs	Art. No.
Socket Set	TX-Star Plus, E-Plus	TP8-60, EP4-24	26	22499

Socket Set, 34 pcs., 3/8", TX-Star

Content							
TX-Star E		E12	22420-E12	T25	13033-25	T10	17044-10
3/8", standard		E14	22420-E14	T27	13033-27	T15	17044-15
E4	22420-E4	E16	22420-E16	T30	13033-30	T20	17044-20
E5	22420-E5	E18	22420-E18	T40	13033-40	T25	17044-25
E6	22420-E6	E20	22420-E20	T45	13033-45	T27	17044-27
E7	22420-E7	TX-Star T		T50	13033-50	T30	17044-30
E8	22420-E8	3/8", 48 mm long		T55	13033-55	T40	17044-40
E10	22420-E10	T10	13033-10	T60	13033-60	T45	17044-45
E11	22420-E11	T15	13033-15	TX-Star tamperproof		T50	17044-50
		T20	13033-20	8 mm bit, 30 mm		T55	17044-55

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	TX-Star E, TX-Star T, TX-Star tamperproof	E4-20, T10-60	3/8"	34	2134

Drive Tools / Accessory, 3/8"	
Bit Holder, 3/8", for 8 mm bits	20623

Socket Set, 19 pcs., 1/2", TX-Star

Content							
TX-Star E		E14	22440-E14	TX-Star T		T40	12033-40
1/2", standard		E16	22440-E16	1/2", 55 mm long		T45	12033-45
E10	22440-E10	E18	22440-E18	T20	12033-20	T50	12033-50
E11	22440-E11	E20	22440-E20	T25	12033-25	T55	12033-55
E12	22440-E12	E22	22440-E22	T27	12033-27	T60	12033-60
		E24	22440-E24	T30	12033-30	T70	12033-70

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	TX-Star E, TX-Star T	E10-24, T20-70	1/2"	19	1008-1

Socket Set, 19 pcs., 1/2", TX-Star Tamperproof

Content					
TX-Star E		E18	22440-E18	T27	12044-27
1/2", standard		E20	22440-E20	T30	12044-30
E10	22440-E10	E22	22440-E22	T40	12044-40
E11	22440-E11	E24	22440-E24	T45	12044-45
E12	22440-E12	TX-Star tamperproof		T50	12044-50
E14	22440-E14	1/2", 55 mm long		T55	12044-55
E16	22440-E16	T20	12044-20	T60	12044-60
		T25	12044-25	T70	12044-70

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	TX-Star E, TX-Star tamperproof	E10-24, T20-70	1/2"	19	1008

Socket and Socket Bit Set, 35 pcs., 1/4+3/8+1/2", TX-Star

Content					
TX-Star E		E20	22420-E20	T50	18044-50
1/4", standard		TX-Star tamperproof		10 mm bit, 75 mm	
E4	22400-E4	1/4" bit, 25 mm		T25	18074-25
E5	22400-E5	T8	16044-8	T27	18074-27
E6	22400-E6	T9	16044-9	T30	18074-30
E7	22400-E7	T10	16044-10	T40	18074-40
E8	22400-E8	T15	16044-15	T45	18074-45
3/8", standard		T20	16044-20	T50	18074-50
E10	22420-E10	10 mm bit, 30 mm		14 mm bit, 75 mm	
E12	22420-E12	T25	18044-25	T55	19074-55
E14	22420-E14	T27	18044-27	T60	19074-60
E16	22420-E16	T30	18044-30	T70	19074-70
E18	22420-E18	T40	18044-40		
		T45	18044-45		

Item	Profile	Size	Drive	pcs	Art. No.
Socket and Socket Bit Set	TX-Star E, TX-Star tamperproof	E4-20, T8-70	1/4+3/8+1/2"	35	1012

Drive Tools / Accessory, 1/4"	
Bit Holder, 1/4", for 1/4" bits	20624
Drive Tools / Accessory, 3/8"	
Bit Holder, 3/8", for 10 mm bits	20622
Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620
Bit Holder, 1/2", for 14 mm bits	20625

Socket Bit Set, 19 pcs., 1/2", TX-Star T20-70

Content							
TX-Star T		T30	28033-30	T70	28033-70	T45	28103-45
1/2", 55 mm long		T40	28033-40	1/2", 100 mm long		T50	28103-50
T20	28033-20	T45	28033-45	T25	28103-25	T55	28103-55
T25	28033-25	T50	28033-50	T27	28103-27	T60	28103-60
T27	28033-27	T55	28033-55	T30	28103-30	T70	28103-70
		T60	28033-60	T40	28103-40		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T20-70	1/2"	19	38033

Socket Bit Set, 32 pcs., 1/2", TX-Star T20-70

Content							
TX-Star T		T55	12033-55	T60	12103-60	T70	12143-70
1/2", 55 mm long		T20	12033-20	T70	12103-70	1/2", 200 mm long	
T60	12033-60	T50	12033-50	T27	12103-27	T40	12203-40
T25	12033-25	1/2", 100 mm long		T30	12103-30	T45	12203-45
T70	12033-70	T20	12103-20	1/2", 140 mm long		T50	12203-50
T40	12033-40	T40	12103-40	T40	12143-40	T55	12203-55
T27	12033-27	T45	12103-45	T45	12143-45	T60	12203-60
T45	12033-45	T50	12103-50	T50	12143-50	T70	12203-70
T30	12033-30	T55	12103-55	T55	12143-55		
		T25	12103-25	T60	12143-60		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T20-70	1/2"	32	5082

Socket Bit Set, 32 pcs., 1/2", TX-Star T20-70

- 55 mm: T20, 25, 27, 30, 40, 45, 50, 55, 60, 70
- 100 mm: T20, 25, 27, 30, 40, 45, 50, 55, 60, 70
- 140 mm: T40, 45, 50, 55, 60, 70
- 200 mm: T40, 45, 50, 55, 60, 70
- chrome-vanadium-steel

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T20-70	1/2"	32	72033

Socket Bit Set, 9 pcs., 1/2", 100 mm, TX-Star T20-60

Content					
TX-Star T	T40	12103-40	T60	12103-60	
1/2", 100 mm long	T45	12103-45	T20	12103-20	
T30	12103-30	T50	12103-50	T25	12103-25
		T55	12103-55	T27	12103-27

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T20-60	1/2"	9	5065

Socket Bit Set, 4 pcs., 1/2", TX-Star Tamperproof T70-100

Content	Profile	Size	Drive	Length	Art. No.
Socket Bit	TX-Star tamperproof	T70	1/2"	100 mm	12104-70
Socket Bit	TX-Star tamperproof	T80	1/2"	100 mm	12104-80
Socket Bit	TX-Star tamperproof	T90	1/2"	100 mm	12104-90
Socket Bit	TX-Star tamperproof	T100	1/2"	100 mm	12104-100

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star tamperproof	T70-100	1/2"	4	5004

Socket Bit Set, 23 pcs., 3/8+1/2", TX-Star T10-60

Content		T40	18033-40	T25	18073-25
TX-Star T		T45	18033-45	T27	18073-27
10 mm bit, 30 mm		T50	18033-50	T30	18073-30
T10	18033-10	T55	18033-55	T40	18073-40
T15	18033-15	T60	18033-60	T45	18073-45
T20	18033-20	10 mm bit, 75 mm		T50	18073-50
T25	18033-25	T10	18073-10	T55	18073-55
T27	18033-27	T15	18073-15		
T30	18033-30	T20	18073-20		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T10-60	3/8+1/2"	23	1011-1

Drive Tools / Accessory, 3/8"	
Bit Holder, 3/8", for 10 mm bits	20622
Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620

Socket Bit Set, 15 pcs., 1/2", TX-Star T20-55

Content		T40	18033-40	T25	18073-25
TX-Star T		T45	18033-45	T30	18073-30
10 mm bit, 30 mm		T50	18033-50	T40	18073-40
T20	18033-20	T55	18033-55	T45	18073-45
T25	18033-25	10 mm bit, 75 mm		T50	18073-50
T30	18033-30	T20	18073-20	T55	18073-55

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T20-55	1/2"	15	210-3

Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620

Socket Bit Set, 23 pcs., 3/8+1/2", TX-Star Tamperproof T10-60

Content		T40	18044-40	T25	18074-25
TX-Star tamperproof		T45	18044-45	T27	18074-27
10 mm bit, 30 mm		T50	18044-50	T30	18074-30
T10	18044-10	T55	18044-55	T40	18074-40
T15	18044-15	T60	18044-60	T45	18074-45
T20	18044-20	10 mm bit, 75 mm		T50	18074-50
T25	18044-25	T10	18074-10	T55	18074-55
T27	18044-27	T15	18074-15		
T30	18044-30	T20	18074-20		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star tamperproof	T10-60	3/8+1/2"	23	1011

Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620
Drive Tools / Accessory, 3/8"	
Bit Holder, 3/8", for 10 mm bits	20622

Socket Bit Set, xcess performance, 9 pcs., 1/2", TX-Star T20-60

Content								
TX-Star T	T20	28033-20	T25	28033-25	T27	28033-27	T30	28033-30
1/2", 55 mm long	T40	28033-40	T45	28033-45	T50	28033-50	T55	28033-55
	T60	28033-60						

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T20-60	1/2"	10	28003

Socket Bit Set, xcess performance, 5 pcs., 1/2", TX-Star T30-55

Content	1/2", 55 mm long							
TX-Star T	T30	28033-30	T40	28033-40	T45	28033-45	T50	28033-50
	T55	28033-55						

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T30-55	1/2"	5	28013

Socket Bit Set, xcess performance, 8 pcs., 1/2", TX-Star T25-60

Content								
TX-Star T	T25	28103-25	T27	28103-27	T30	28103-30	T40	28103-40
1/2", 100 mm long	T45	28103-45	T50	28103-50	T55	28103-55	T60	28103-60

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T25-60	1/2"	8	28133

Socket Bit Set, xcess performance, 10 pcs., 1/4", TX-Star T8-45

Content								
TX-Star T	T9	24033-9	T10	24033-10	T15	24033-15	T20	24033-20
1/4", 37 mm long	T25	24033-25	T27	24033-27	T30	24033-30	T40	24033-40
T8 24033-8	T45	24033-45						

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T8-45	1/4"	10	24003

Socket Bit Set, 10 pcs., 1/4", TX-Star T7-40

Content								
TX-Star T	T9	14033-9	T10	14033-10	T15	14033-15	T20	14033-20
1/4", 37 mm long	T25	14033-25	T27	14033-27	T30	14033-30	T40	14033-40
T7 14033-7	T8	14033-8						

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star T	T7-40	1/4"	10	1004-1

Socket Bit Set, 10 pcs., 1/4", TX-Star Tamperproof T7-40

Content								
TX-Star tamperproof	T9	14044-9	T10	14044-10	T15	14044-15	T20	14044-20
1/4", 37 mm long	T25	14044-25	T27	14044-27	T30	14044-30	T40	14044-40
T7 14044-7	T8	14044-8						

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	TX-Star tamperproof	T7-40	1/4"	10	1004-2

Stubby Socket Bit Set, 12 pcs., TX-Star T8-60

Content		T20	*5066-20*	T45	*5066-45*
TX-Star T		T25	*5066-25*	T50	*5066-50*
1/4", 28 mm long		T27	*5066-27*	T55	*5066-55*
T8	*5066-8*	3/8", 32 mm long		1/2", 45 mm long	
T10	*5066-10*	T30	*5066-30*	T60	*5066-60*
T15	*5066-15*	T40	*5066-40*		

Item	Profile	Form	Size	Drive	pcs	Art. No.
Stubby Socket Bit Set	TX-Star T	extra short	T8-60	1/4+3/8+1/2"	12	5066

Socket Set, 9 pcs., 1/2", TX-Star E10-24

Content		E11	22440-E11	E18	22440-E18
TX-Star E		E12	22440-E12	E20	22440-E20
1/2", standard		E14	22440-E14	E22	22440-E22
E10	22440-E10	E16	22440-E16	E24	22440-E24

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	TX-Star E	E10-24	1/2"	9	1007

Socket Set, 14 pcs., 1/4+3/8+1/2", TX-Star E4-24

Content		E8	22400-E8	1/2", standard	
TX-Star E		3/8", standard		E18	22440-E18
1/4", standard		E10	22420-E10	E20	22440-E20
E4	22400-E4	E11	22420-E11	E22	22440-E22
E5	22400-E5	E12	22420-E12	E24	22440-E24
E6	22400-E6	E14	22420-E14		
E7	22400-E7	E16	22420-E16		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	TX-Star E	E4-24	1/4+3/8+1/2"	14	1005

Socket Set, xcess performance, 12 pcs., 1/4+3/8", TX-Star E4-20

Content		E7	23011-7	E14	25011-14
TX-Star E		E8	23011-8	E16	25011-16
1/4", standard		3/8", standard		E18	25011-18
E4	23011-4	E10	25011-10	E20	25011-20
E5	23011-5	E11	25011-11		
E6	23011-6	E12	25011-12		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	TX-Star E	E4-20	1/4+3/8"	12	25111

Socket Set, xcess performance, 7 pcs., 1/4", TX-Star E4-11

Content		E5	23011-5	E10	23011-10
TX-Star E		E6	23011-6	E11	23011-11
1/4", standard		E7	23011-7		
E4	23011-4	E8	23011-8		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	TX-Star E	E4-11	1/4"	7	23111

Socket Set, 6 pcs., 1/4", TX-Star E4-10

Content					
TX-Star E	E4	22400-E4	E7	22400-E7	
1/4", standard	E5	22400-E5	E8	22400-E8	
	E6	22400-E6	E10	22400-E10	

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	TX-Star E	E4-10	1/4"	6	22401

Socket Set, 12 pcs., 1/4" + 3/8", TX-Star E4-20

Content					
TX-Star E	E7	22400-E7	E14	22420-E14	
1/4", standard	E8	22400-E8	E16	22420-E16	
	3/8", standard		E18	22420-E18	
E4 22400-E4	E10	22420-E10	E20	22420-E20	
E5 22400-E5	E11	22420-E11			
E6 22400-E6	E12	22420-E12			

Item	Profile	Size	Drive	pcs	Art. No.
Socket Set	TX-Star E	E4-20	1/4+3/8"	12	1006

Deep Socket Set, 7 pcs., 1/4", TX-Star E4-11

Content					
TX-Star E	E5	*22410-E5*	E10	*22410-E10*	
1/4", deep	E6	*22410-E6*	E11	*22410-E11*	
	E7	*22410-E7*			
E4 *22410-E4*	E8	*22410-E8*			

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	TX-Star E	E4-11	1/4"	7	22402

Deep Socket Set, 9 pcs., 1/2", TX-Star E10-24

Content					
TX-Star E	E11	22460-E11	E18	22460-E18	
1/2", deep	E12	22460-E12	E20	22460-E20	
	E14	22460-E14	E22	22460-E22	
E10 22460-E10	E16	22460-E16	E24	22460-E24	

Item	Profile	Size	Drive	pcs	Art. No.
Deep Socket Set	TX-Star E	E10-24	1/2"	9	22461

Socket Set, 6 pcs., 1/2", 150 mm, TX-Star E10-20

Content	Profile	Size	Drive	Length	Art. No.
Socket	TX-Star E	E10	1/2"	150 mm	*5006-E10*
Socket	TX-Star E	E12	1/2"	150 mm	*5006-E12*
Socket	TX-Star E	E14	1/2"	150 mm	*5006-E14*
Socket	TX-Star E	E16	1/2"	150 mm	*5006-E16*
Socket	TX-Star E	E18	1/2"	150 mm	*5006-E18*
Socket	TX-Star E	E20	1/2"	150 mm	*5006-E20*

Item	Profile	Size	Drive	Length	pcs	Art. No.
Socket Set	TX-Star E	E10-20	1/2"	150 mm	6	5006

5-Star

Socket Bit Set, xcess performance, 7 pcs., 1/4", 5-Star Tamperproof TS10-40

Content		TS15	*24066-15*	TS30	*24066-30*
5-Star tamperproof		TS20	*24066-20*	TS40	*24066-40*
1/4", 37 mm long		TS25	*24066-25*		
TS10	*24066-10*	TS27	*24066-27*		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	5-Star tamperproof	TS10-40	1/4"	7	24006

Socket Bit Set, 9 pcs., 1/4", 5-Star Tamperproof TS10-50

Content		TS15	*14066-15*	TS30	*14066-30*
5-Star tamperproof		TS20	*14066-20*	TS40	*14066-40*
1/4", 37 mm long		TS25	*14066-25*	TS45	*14066-45*
TS10	*14066-10*	TS27	*14066-27*	TS50	*14066-50*

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	5-Star tamperproof	TS10-50	1/4"	9	1108

Hexagon

Socket Bit Set, 19 pcs., 1/2", hex 5-14 mm

Content		10 mm	28022-10	8 mm	28102-8
Hexagon		12 mm	28022-12	9 mm	28102-9
1/2", 55 mm long		14 mm	28022-14	10 mm	28102-10
5 mm	28022-5	17 mm	28022-17	11 mm	28102-11
6 mm	28022-6	19 mm	28022-19	12 mm	28102-12
7 mm	28022-7	1/2", 100 mm long		13 mm	28102-13
8 mm	28022-8	6 mm	28102-6	14 mm	28102-14
9 mm	28022-9	7 mm	28102-7		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	5-19 mm	1/2"	19	38022

Socket Bit Set, 30 pcs., 1/2", hex 5-19 mm

Content		1/2", 100 mm long		7 mm	12142-7
Hexagon		5 mm	12102-5	8 mm	12142-8
1/2", 55 mm long		6 mm	12102-6	10 mm	12142-10
5 mm	12022-5	7 mm	12102-7	12 mm	12142-12
6 mm	12022-6	8 mm	12102-8	14 mm	12142-14
7 mm	12022-7	10 mm	12102-10	1/2", 200 mm long	
8 mm	12022-8	11 mm	12102-11	5 mm	12202-5
10 mm	12022-10	12 mm	12102-12	6 mm	12202-6
12 mm	12022-12	13 mm	12102-13	7 mm	12202-7
14 mm	12022-14	1/2", 140 mm long		8 mm	12202-8
17 mm	12022-17	5 mm	12142-5	10 mm	12202-10
19 mm	12022-19	6 mm	12142-6	12 mm	12202-12

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	5-19 mm	1/2"	30	5081

2

Socket Bit Set, 30 pcs., 1/2", hex 5-19 mm

- 55 mm: 5, 6, 7, 8, 10, 12, 14, 17, 19 mm
- 100 mm: 5, 6, 7, 8, 10, 11, 12, 13 mm
- 140 mm: 5, 6, 7, 8, 10, 12, 14 mm
- 200 mm: 5, 6, 7, 8, 10, 12 mm
- chrome-vanadium-steel

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	5-19 mm	1/2"	30	72022

Socket Bit Set, 6 pcs., 1/2", 140 mm, hex 5-12 mm

Content					
Hexagon	5 mm	12142-5	8 mm	12142-8	
1/2", 140 mm long	6 mm	12142-6	10 mm	12142-10	
	7 mm	12142-7	12 mm	12142-12	

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	5-12 mm	1/2"	6	5050

Socket Bit Set, 6 pcs., 1/2", 140 mm, ball end 5-12 mm

Content					
Ball-Head	5 mm	5055-5	8 mm	5055-8	
1/2", 140 mm long	6 mm	5055-6	10 mm	5055-10	
	7 mm	5055-7	12 mm	5055-12	

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Ball-Head	5-12 mm	1/2"	6	5055

Socket Bit Set, 12 pcs., 1/2", hex 5-22 mm

Content					
Hexagon	7 mm	12022-7	16 mm	12022-16	
1/2", 55 mm long	8 mm	12022-8	17 mm	12022-17	
	10 mm	12022-10	18 mm	12022-18	
5 mm 12022-5	12 mm	12022-12	19 mm	12022-19	
6 mm 12022-6	14 mm	12022-14	22 mm	12022-22	

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	5-22 mm	1/2"	12	4810

Socket Bit Set, 15 pcs., 1/2", hex 4-12 mm

Content		7 mm	18022-7	5 mm	18072-5
Hexagon		8 mm	18022-8	6 mm	18072-6
10 mm bit, 30 mm		10 mm	18022-10	7 mm	18072-7
4 mm	18022-4	12 mm	18022-12	8 mm	18072-8
5 mm	18022-5	10 mm bit, 75 mm		10 mm	18072-10
6 mm	18022-6	4 mm	18072-4	12 mm	18072-12

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	4-12 mm	1/2"	15	210-2

Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620

Socket Bit Set, xcess performance, 7 pcs., 1/2", hex 5-12 mm

Content		6 mm	28022-6	10 mm	28022-10
Hexagon		7 mm	28022-7	12 mm	28022-12
1/2", 55 mm long		8 mm	28022-8		
5 mm	28022-5	9 mm	28022-9		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	5-12 mm	1/2"	7	28002

Socket Bit Set, xcess performance, 3 pcs., 1/2", hex 14-19 mm

Content	1/2", 55 mm long		17 mm	28022-17
Hexagon	14 mm	28022-14	19 mm	28022-19

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	14-19 mm	1/2"	3	28012

Socket Bit Set, xcess performance, 6 pcs., 1/2", hex 6-12 mm

Content	6 mm	28102-6	9 mm	28102-9
Hexagon	7 mm	28102-7	10 mm	28102-10
1/2", 100 mm long	8 mm	28102-8	12 mm	28102-12

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	6-12 mm	1/2"	6	28122

Socket Bit Set, xcess performance, 6 pcs., 1/4", hex 3-8 mm

Content	3 mm	24022-3	6 mm	24022-6
Hexagon	4 mm	24022-4	7 mm	24022-7
1/4", 37 mm long	5 mm	24022-5	8 mm	24022-8

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	3-8 mm	1/4"	6	24002

Socket Bit Set, 7 pcs., 1/2", hex 6-17 mm

Content		7 mm	12022-7	14 mm	12022-14
Hexagon		8 mm	12022-8	17 mm	12022-17
1/2", 55 mm long		10 mm	12022-10		
6 mm	12022-6	12 mm	12022-12		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	6-17 mm	1/2"	7	12227

Socket Bit Set, 7 pcs., 1/4", hex 3-10 mm

Content		4 mm	14022-4	8 mm	14022-8
Hexagon		5 mm	14022-5	10 mm	*14022-10*
1/4", 37 mm long		6 mm	14022-6		
3 mm	14022-3	7 mm	14022-7		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Hexagon	3-10 mm	1/4"	7	14227

Stubby Socket Bit Set, 10 pcs., hex 4-19 mm

Content		6 mm	*5051-6*	12 mm	*5051-12*
Hexagon		7 mm	*5051-7*	14 mm	*5051-14*
1/4", 28 mm long		8 mm	*5051-8*	1/2", 45 mm long	
4 mm	*5051-4*	3/8", 32 mm long		17 mm	*5051-17*
5 mm	*5051-5*	10 mm	*5051-10*	19 mm	*5051-19*

Item	Profile	Form	Size	Drive	pcs	Art. No.
Stubby Socket Bit Set	Hexagon	extra short	4-19 mm	1/4+3/8+1/2"	10	5051

Bit Assortment with Impact Driver, 14 pcs., hexagon with oversize

- oversized hexagon bits in 5.1, 6.1, 7.1 and 8.1 mm
- for worn-out screws:
  Use hammer to punch oversized bit into screw head. Then use impact driver or 10 mm spanner for loosening.
- conical shape for better fittting into screw head
- incl. impact driver for powerful loosening
- ideal for starter, brake caliper, brake disc, pulleys etc.

Content	Profile	Size	Drive	Length	Art. No.
Bit	Hexagon	5.1 mm	10 mm hex	40 mm	18022-X5
Bit	Hexagon	6.1 mm	10 mm hex	40 mm	18022-X6
Bit	Hexagon	7.1 mm	10 mm hex	40 mm	18022-X7
Bit	Hexagon	8.1 mm	10 mm hex	40 mm	18022-X8
Bit	TX-Star T	T40	10 mm hex	75 mm	18073-40
Bit	Plain Slot	8 mm	8 mm hex	30 mm	*17077-8*
Bit	Plain Slot	10 mm	8 mm hex	30 mm	*17077-10*
Bit	Plain Slot	10 mm	8 mm hex	65 mm	*17177-10*
Bit	Cross Slot PH	PH2	8 mm hex	30 mm	*17088-2*
Bit	Cross Slot PH	PH3	8 mm hex	30 mm	*17088-3*
Bit	Cross Slot PH	PH3	8 mm hex	65 mm	*17188-3*

Drive Tools / Accessory, 1/2"	
Impact Driver, metal handle	*224-01*
Bit Holder, 1/2", for 10 mm bits	20620
Bit Holding Socket, 1/2", for 8 mm bits	*20621KR*

Item	Drive	pcs	Art. No.
Bit Assortment with Impact Driver	1/2"	14	2102

Spline

Socket Bit Set, 16 pcs., 1/2", spline M5-16

Content							
Spline	M8	28011-8	M16	28011-16	M9	28101-9	
1/2", 55 mm long	M9	28011-9	1/2", 100 mm long		M10	28101-10	
M5	28011-5	M10	28011-10	M5	28101-5	M12	28101-12
M6	28011-6	M12	28011-12	M6	28101-6	M14	28101-14
		M14	28011-14	M8	28101-8	M16	28101-16

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Spline	M5-16	1/2"	16	38011

Socket Bit Set, 27 pcs., 1/2", spline M5-16

Content							
Spline	M14	12011-14	M14	12101-14	M14	12141-14	
1/2", 55 mm long	M16	12011-16	M16	12101-16	1/2", 200 mm long		
M5	12011-5	1/2", 100 mm long		1/2", 140 mm long		M8	12201-8
M6	12011-6	M5	12101-5	M5	12141-5	M10	12201-10
M8	12011-8	M6	12101-6	M6	12141-6	M12	12201-12
M9	12011-9	M8	12101-8	M8	12141-8	M14	12201-14
M10	12011-10	M9	12101-9	M9	12141-9		
M12	12011-12	M10	12101-10	M10	12141-10		
		M12	12101-12	M12	12141-12		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Spline	M5-16	1/2"	27	5080

Socket Bit Set, 26 pcs., 1/2", spline M5-16

- 55 mm: M5, 6, 8, 9, 10, 12, 14, 16
- 100 mm: M5, 6, 8, 9, 10, 12, 14
- 140 mm: M5, 6, 8, 9, 10, 12, 14
- 200 mm: M8, 10, 12, 14
- chrome-vanadium-steel

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Spline	M5-16	1/2"	26	72011

Socket Bit Set, 6 pcs., 1/2", 140 mm, spline M5-14

Content	M5	12141-5	M10	12141-10
Spline	M6	12141-6	M12	12141-12
1/2", 140 mm long	M8	12141-8	M14	12141-14

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Spline	M5-14	1/2"	6	5060

Socket Bit Set, 11 pcs., 1/2", spline M5-12

Content		M8	18011-8	M6	18071-6
Spline		M10	18011-10	M8	18071-8
10 mm bit, 30 mm		M12	18011-12	M10	18071-10
M5	18011-5	10 mm bit, 75 mm		M12	18071-12
M6	18011-6	M5	18071-5		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Spline	M5-12	1/2"	11	210-1

Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620

Socket Bit Set, xcess performance, 6 pcs., 1/2", spline M5-12

Content	M5	28101-5	M9	28101-9
Spline	M6	28101-6	M10	28101-10
1/2", 100 mm long	M8	28101-8	M12	28101-12

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Spline	M5-12	1/2"	6	28111

Socket Bit Set, 8 pcs., 1/4 + 3/8 + 1/2", spline M4-16

Content		M6	*14011-6*	1/2", 55 mm long	
Spline		3/8", 48 mm long		M14	12011-14
1/4", 37 mm long		M8	*13011-8*	M16	12011-16
M4	*14011-4*	M10	*13011-10*		
M5	*14011-5*	M12	*13011-12*		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Spline	M4-16	1/4+3/8+1/2"	8	1109

Spline (for Ribe)

Socket Bit Set, 32 pcs., 1/2", ribe-profile M5-14

Content		M13	12055-13	M13	12105-13	1/2", 200 mm long	
Spline (for Ribe)		M14	12055-14	M14	12105-14	M8	12205-8
1/2", 55 mm long		1/2", 100 mm long		1/2", 140 mm long		M9	12205-9
M5	12055-5	M5	12105-5	M8	12145-8	M10	12205-10
M6	12055-6	M6	12105-6	M9	12145-9	M10.3	12205-10.3
M7	12055-7	M7	12105-7	M10	12145-10	M12	12205-12
M8	12055-8	M8	12105-8	M10.3	12145-10.3	M13	12205-13
M9	12055-9	M9	12105-9	M12	12145-12	M14	12205-14
M10	12055-10	M10	12105-10	M13	12145-13		
M12	12055-12	M12	12105-12	M14	12145-14		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Spline (for Ribe)	M5-14	1/2"	32	5083

Socket Bit Set, 9 pcs., 1/2", 100 mm, ribe-profile M5-13

Content		M6	12105-6	M12	12105-12
Spline (for Ribe)		M7	12105-7	M13	12105-13
1/2", 100 mm long		M8	12105-8	M9	12105-9
M5	12105-5	M11	12105-11	M10	12105-10

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Spline (for Ribe)	M5-13	1/2"	9	5070

Socket Bit Set, 22 pcs., 3/8" + 1/2", ribe-profile M5-13

Content		M11	18055-11	M10	18075-10
Spline (for Ribe)		M12	18055-12	M11	18075-11
10 mm bit, 40 mm		M13	18055-13	M12	18075-12
M5	18055-5	10 mm bit, 75 mm		M13	18075-13
M6	18055-6	M5	18075-5	M14	18075-14
M7	18055-7	M6	18075-6	10 mm bit, 100 mm	
M8	18055-8	M7	18075-7	M10.3	18105-10.3
M9	18055-9	M8	18075-8		
M10	18055-10	M9	18075-9		

Item	Profile	Size	Drive	pcs	Art. No.
Socket Bit Set	Spline (for Ribe)	M5-13	3/8+1/2"	22	210-5

Drive Tools / Accessory, 3/8"	
Bit Holder, 3/8", for 10 mm bits	20622
Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620

Combined Sets

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Drive Tools / Accessory, 1/2"	
Bit Holding Socket, 1/2", for 8 mm bits	28900

Socket Bit Set, xcess performance, 89 pcs., 1/4+1/2"

Content		12 mm	28102-12	T25	28103-25	M12	28011-12
Hexagon		13 mm	28102-13	T27	28103-27	M14	28011-14
1/4", 37 mm long		14 mm	28102-14	T30	28103-30	M16	28011-16
3 mm	24022-3	TX-Star T		T40	28103-40	1/2", 100 mm long	
4 mm	24022-4	1/4", 37 mm long		T45	28103-45	M5	28101-5
5 mm	24022-5	T8	24033-8	T50	28103-50	M6	28101-6
6 mm	24022-6	T9	24033-9	T55	28103-55	M8	28101-8
7 mm	24022-7	T10	24033-10	T60	28103-60	M9	28101-9
8 mm	24022-8	T15	24033-15	T70	28103-70	M10	28101-10
1/2", 55 mm long		T20	24033-20	TX-Star tamperproof		M12	28101-12
5 mm	28022-5	T25	24033-25	8 mm bit, 30 mm		M14	28101-14
6 mm	28022-6	T27	24033-27	T20	17044-20	M16	28101-16
7 mm	28022-7	T30	24033-30	T25	17044-25	5-Star tamperproof	
8 mm	28022-8	T40	24033-40	T27	17044-27	1/4", 37 mm long	
9 mm	28022-9	T45	24033-45	T30	17044-30	TS10	*24066-10*
10 mm	28022-10	1/2", 55 mm long		T40	17044-40	TS15	*24066-15*
12 mm	28022-12	T20	28033-20	T45	17044-45	TS20	*24066-20*
14 mm	28022-14	T25	28033-25	T50	17044-50	TS25	*24066-25*
17 mm	28022-17	T27	28033-27	T55	17044-55	TS27	*24066-27*
19 mm	28022-19	T30	28033-30	T60	17044-60	TS30	*24066-30*
1/2", 100 mm long		T40	28033-40	Spline		TS40	*24066-40*
6 mm	28102-6	T45	28033-45	1/2", 55 mm long		Cross Slot PH	
7 mm	28102-7	T50	28033-50	M5	28011-5	1/4", 37 mm long	
8 mm	28102-8	T55	28033-55	M6	28011-6	PH1	24088-1
9 mm	28102-9	T60	28033-60	M8	28011-8	PH2	24088-2
10 mm	28102-10	T70	28033-70	M9	28011-9		
11 mm	28102-11	1/2", 100 mm long		M10	28011-10		

Item	Drive	pcs	Art. No.
Socket Bit Set	1/4+1/2"	89	37204

Socket Bit Set, 38 pcs., 1/2", automotive applications

Content		T30	12304-30	M16	2357
Hexagon		TX-Star T		Spline (for Ribe)	
1/2", 55 mm long		1/2", 140 mm long		1/2", 100 mm long	
14 mm	12022-14	T40	12143-40	M9	12105-9
17 mm	12022-17	T45	12143-45	1/2", 140 mm long	
19 mm	12022-19	T50	12143-50	M10	12145-10
22 mm	12022-22	T55	12143-55	1/2", 240 mm long	
24 mm	12022-24	T60	12143-60	M7	*12245-7*
1/2", 140 mm long		T70	12143-70	M8	*12245-8*
10 mm	12142-10	Spline		5-Star tamperproof	
11 mm	12142-11	1/2", 78 mm long		1/4", 37 mm long	
13 mm	12142-13	M18	12071-K18	TS10	*14066-10*
1/2", 230 mm long		1/2", 100 mm long		TS15	*14066-15*
7 mm	12232-7	M9	12101-9	TS20	*14066-20*
Ball-Head		M16	12101-16	TS25	*14066-25*
1/2", 160 mm long		1/2", 140 mm long		TS27	*14066-27*
5 mm	*5084-5*	M10	12141-10	TS30	*14066-30*
TX-Star tamperproof		M12	12141-12	TS40	*14066-40*
1/2", 100 mm long		M14	12141-14	TS45	*14066-45*
T80	12104-80	Spline tamperproof		TS50	*14066-50*
1/2", 300 mm long		1/2", 55 mm long			

Item	Drive	pcs	Art. No.
Socket Bit Set	1/2"	38	5084

Socket Set, 8 pcs., 1/2", specialist automotive applications

- for drive and prop shafts, cylinder head bolts and brake calipers

Content	Profile	Size	Drive	Length	Art. No.
Socket	TX-Star E	E12	1/2"	150 mm	*5006-E12*
Socket Bit	TX-Star T	T55	1/2"	140 mm	12143-55
Socket Bit	TX-Star T	T70	1/2"	120 mm	12123-70
Socket Bit	Hexagon	7 mm	1/2"	140 mm	12142-7
Socket Bit	Spline	M8	1/2"	100 mm	12101-8
Socket Bit	Spline	M10	1/2"	140 mm	12141-10
Socket Bit	Spline	M12	1/2"	140 mm	12141-12
Socket Bit	Spline (for Ribe)	M10.3	1/2"	120 mm	12125-10.3

Item	Drive	pcs	Art. No.
Socket Set, automotive specialist	1/2"	8	5008

Socket Bit Set, 46 pcs., 3/8+1/2"

Content							
Hexagon		8 mm	18072-8	T25	18044-25	10 mm bit, 75 mm	
10 mm bit, 30 mm		10 mm	18072-10	T27	18044-27	M6	18071-6
4 mm	18022-4	TX-Star T		T30	18044-30	M8	18071-8
5 mm	18022-5	10 mm bit, 75 mm		T40	18044-40	M10	18071-10
6 mm	18022-6	T25	18073-25	T45	18044-45	M12	18071-12
7 mm	18022-7	T30	18073-30	T50	18044-50	Plain Slot	
8 mm	18022-8	T40	18073-40	T55	18044-55	10 mm bit, 30 mm	
10 mm	18022-10	T45	18073-45	T60	18044-60	8 mm	*18077-8*
12 mm	18022-12	T50	18073-50	Spline		10 mm	*18077-10*
14 mm	18022-14	T55	18073-55	10 mm bit, 30 mm		Cross Slot PH	
10 mm bit, 75 mm		TX-Star tamperproof		M5	18011-5	10 mm bit, 30 mm	
5 mm	18072-5	10 mm bit, 30 mm		M6	18011-6	PH1	*18088-1*
6 mm	18072-6	T10	18044-10	M8	18011-8	PH2	*18088-2*
7 mm	18072-7	T15	18044-15	M10	18011-10	PH3	*18088-3*
		T20	18044-20	M12	18011-12		

Item	Drive	pcs	Art. No.
Socket Bit Set	3/8+1/2"	46	1146

Drive Tools / Accessory, 3/8"	
Bit Holder, 3/8", for 10 mm bits	20622
Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620

Socket Bit Set, 40 pcs., 3/8+1/2"

Content							
Hexagon		5 mm	18072-5	T45	18033-45	10 mm bit, 30 mm	
10 mm bit, 30 mm		6 mm	18072-6	T50	18033-50	M5	18011-5
4 mm	18022-4	7 mm	18072-7	T55	18033-55	M6	18011-6
5 mm	18022-5	8 mm	18072-8	10 mm bit, 75 mm		M8	18011-8
6 mm	18022-6	10 mm	18072-10	T20	18073-20	M10	18011-10
7 mm	18022-7	12 mm	18072-12	T25	18073-25	M12	18011-12
8 mm	18022-8	TX-Star T		T30	18073-30	10 mm bit, 75 mm	
10 mm	18022-10	10 mm bit, 30 mm		T40	18073-40	M5	18071-5
12 mm	18022-12	T20	18033-20	T45	18073-45	M6	18071-6
10 mm bit, 75 mm		T25	18033-25	T50	18073-50	M8	18071-8
4 mm	18072-4	T30	18033-30	T55	18073-55	M10	18071-10
		T40	18033-40	Spline		M12	18071-12

Item	Profile	Drive	pcs	Art. No.
Socket Bit Set	Hexagon, TX-Star T, Spline	3/8+1/2"	40	210-4

Drive Tools / Accessory, 3/8"	
Bit Holder, 3/8", for 10 mm bits	20622
Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620

Socket Bit Set, 40 pcs., 3/8+1/2"

- 14x hexagon, length 30 and 75 mm: 4, 5, 6, 7, 8, 10, 12 mm
- 14x tx-star, length 30 and 75 mm: T20, 25, 30, 40, 45, 50, 55
- 10x spline, length 30 and 75 mm: M5, 6, 8, 10, 12
- 1x adapter, 3/8" sq. drive x 10 mm hex
- 1x adapter, 1/2" sq. drive x 10 mm hex

Item	Profile	Drive	pcs	Art. No.
Socket Bit Set	Hexagon, TX-Star T, Spline	3/8+1/2"	40	72100

Flare Nut

2

Crow Foot Wrench Set, 32 pcs., 3/8+1/2+3/4", 10-50 mm

Content					
hexagon					
10 mm	38-38-10	17 mm	38-38-17	24 mm	38-12-24
11 mm	38-38-11	18 mm	38-38-18	25 mm	38-12-25
12 mm	38-38-12	19 mm	38-38-19	26 mm	38-12-26
13 mm	38-38-13	20 mm	38-12-20	27 mm	38-12-27
14 mm	38-38-14	21 mm	38-12-21	28 mm	38-12-28
15 mm	38-38-15	22 mm	38-12-22	30 mm	38-12-30
16 mm	38-38-16	23 mm	38-12-23	32 mm	38-12-32
				33 mm	38-12-33
				36 mm	38-12-36
				38 mm	38-34-38
				41 mm	38-34-41
				46 mm	38-34-46
				50 mm	38-34-50

Item	Profile	Size	Drive	pcs	Art. No.
Crow Foot Wrench Set	hexagon	10-50 mm	3/8+1/2+3/4"	32	37338

Drive Tools / Accessory, 1/2"	
Swivel Handle, 1/2", 385 mm	38-GG
Extension Bar, 1/2", 125 mm	21900
Socket Converter, 1/2" F x 3/8" M	20603
Socket Converter, 1/2" F x 3/4" M	20605
Drive Tools / Accessory, 3/4"	
Extension Bar, 3/4", 100 mm	22500

Crow Foot Wrench Set, 8 pcs., 1/2"+3/4", 33-50 mm

Content	Profile	Size	Drive	Length	Art. No.
Crow Foot Wrench	hexagon	33 mm	1/2"		38-12-33
Crow Foot Wrench	hexagon	36 mm	1/2"		38-12-36
Crow Foot Wrench	hexagon	38 mm	3/4"		38-34-38
Crow Foot Wrench	hexagon	41 mm	3/4"		38-34-41
Crow Foot Wrench	hexagon	46 mm	3/4"		38-34-46
Crow Foot Wrench	hexagon	50 mm	3/4"		38-34-50
Extension Bar			1/2"	125 mm	21900
Extension Bar			3/4"	100 mm	22500

Item	Profile	Size	Drive	pcs	Art. No.
Crow Foot Wrench Set	hexagon	33-50 mm	1/2+3/4"	8	4076

Crow Foot Wrench Set, 13 pcs., 1/2", 20-32 mm

Content					
hexagon					
20 mm	38-12-20	21 mm	38-12-21	22 mm	38-12-22
				23 mm	38-12-23
				24 mm	38-12-24
				25 mm	38-12-25
				26 mm	38-12-26
				27 mm	38-12-27
				28 mm	38-12-28
				30 mm	38-12-30
				32 mm	38-12-32

Item	Profile	Size	Drive	pcs	Art. No.
Crow Foot Wrench Set	hexagon	20-32 mm	1/2"	13	38-13

Drive Tools / Accessory, 1/2"	
Swivel Handle, 1/2", 385 mm	38-GG
Extension Bar, 1/2", 125 mm	21900

Crow Foot Wrench Set, 10 pcs., 3/8", 10-19 mm

Content					
hexagon		12 mm	*38-38-12*	16 mm	*38-38-16*
10 mm	*38-38-10*	13 mm	*38-38-13*	17 mm	*38-38-17*
11 mm	*38-38-11*	14 mm	*38-38-14*	18 mm	*38-38-18*
		15 mm	*38-38-15*	19 mm	*38-38-19*

Item	Profile	Size	Drive	pcs	Art. No.
Crow Foot Wrench Set	hexagon	10-19 mm	3/8"	10	38-10

Crow Foot Wrench Set, 8 pcs., 3/8", inch 3/8-7/8"

Content					
hexagon		1/2"	*38Z-1-2*	3/4"	*38Z-3-4*
3/8"	*38Z-3-8*	9/16"	*38Z-9-16*	7/8"	*38Z-7-8*
7/16"	*38Z-7-16*	5/8"	*38Z-5-8*		
		11/16"	*38Z-11-16*		

Item	Profile	Size	Drive	pcs	Art. No.
Crow Foot Wrench Set	Hexagon inch	3/8-7/8"	3/8"	8	38-8Z

Flare Nut Socket Wrench Set, 1/2", 6 pcs., open bi-hex 12-19 mm

- for fitting and removing cable glands on injection systems, air conditioning systems, brakes, sensors, etc.
- slim design, ideal for confined spaces
- open ring backed, therefore no expanding possible
- for use by many manufacturers in the car, truck and commercial vehicle sector

Content	Profile	Size	Drive	Length	Art. No.
Line Socket	bi-hexagon	12 mm	1/2"	100 mm	*4759-12*
Line Socket	bi-hexagon	14 mm	1/2"	100 mm	*4759-14*
Line Socket	bi-hexagon	16 mm	1/2"	100 mm	*4759-16*
Line Socket	bi-hexagon	17 mm	1/2"	100 mm	*4759-17*
Line Socket	bi-hexagon	18 mm	1/2"	100 mm	*4759-18*
Line Socket	bi-hexagon	19 mm	1/2"	100 mm	*4759-19*

Item	Profile	Size	Drive	pcs	Art. No.
Flare Nut Socket Wrench Set	bi-hexagon	12-19 mm	1/2"	6	4759

Specialist Sockets, 6 pcs., 3/8+1/2", slotted, 10-19 mm

- for sensors, e.g. thermo, engine speed and other components
- for pipes with offset screw connections
- slotted pattern, also suitable for cable connections on the side

Content	Profile	Size	Drive	Length	OEM Comparison No.	Art. No.
Line Socket	hexagon	10 mm	3/8"	52 mm		4757-10
Line Socket	hexagon	11 mm	3/8"	52 mm		4757-11
Line Socket	hexagon	12 mm	3/8"	52 mm		4757-12
Line Socket	hexagon	14 mm	3/8"	62 mm		4757-14
Line Socket	hexagon	17 mm	1/2"	79 mm	T40055, 000589690300	4757-17
Line Socket	hexagon	19 mm	1/2"	79 mm		4757-19

Item	Profile	Size	Drive	pcs	Art. No.
Specialist Sockets	hexagon	10-19 mm	3/8+1/2"	6	4757

Impact Sockets

2

Impact Socket Set, 27 pcs., 3/4", CrMo, hex 19-60 mm

Content					
hexagon		27 mm	22600-K27	38 mm	22600-K38
3/4", standard		28 mm	22600-K28	40 mm	22600-K40
19 mm	22600-K19	29 mm	22600-K29	41 mm	22600-K41
21 mm	22600-K21	30 mm	22600-K30	46 mm	22600-K46
22 mm	22600-K22	32 mm	22600-K32	50 mm	22600-K50
23 mm	22600-K23	33 mm	22600-K33	55 mm	22600-K55
24 mm	22600-K24	34 mm	22600-K34	60 mm	22600-K60
26 mm	22600-K26	35 mm	22600-K35		
		36 mm	22600-K36		

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Set	hexagon	19-60 mm	3/4"	27	38140

Drive Tools / Accessory, 3/4"	
Reversible Ratchet, 3/4", 500 mm	*22551*
Impact Extension Bar, 3/4", 100 mm	29810K
Impact Extension Bar, 3/4", 200 mm	29820K
Impact Extension Bar, 3/4", 400 mm	29840K
Impact Sliding T-Bar, CrMo, 3/4", 450 mm	29901K

Impact Socket Set, 40 pcs., 1/2", CrMo, hex 8-32 mm

Content					
hexagon		19 mm	22000-K19	13 mm	22099-K13
1/2", standard		20 mm	22000-K20	14 mm	22099-K14
8 mm	22000-K8	21 mm	22000-K21	15 mm	22099-K15
9 mm	22000-K9	22 mm	22000-K22	16 mm	22099-K16
10 mm	22000-K10	24 mm	22000-K24	17 mm	22099-K17
11 mm	22000-K11	27 mm	22000-K27	18 mm	22099-K18
12 mm	22000-K12	30 mm	22000-K30	19 mm	22099-K19
13 mm	22000-K13	32 mm	22000-K32	20 mm	22099-K20
14 mm	22000-K14	1/2", deep		21 mm	22099-K21
15 mm	22000-K15	8 mm	22099-K8	22 mm	22099-K22
16 mm	22000-K16	9 mm	22099-K9	24 mm	22099-K24
17 mm	22000-K17	10 mm	22099-K10	27 mm	22099-K27
18 mm	22000-K18	11 mm	22099-K11	30 mm	22099-K30
		12 mm	22099-K12	32 mm	22099-K32

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Set	hexagon	8-32 mm	1/2"	40	1040

Drive Tools / Accessory, 1/2"	
Impact Extension Bar, 1/2", 125 mm	20125K
Impact Swivel Joint Adapter, 1/2", CrMo	21930A

Impact Socket Set, 14 pcs., 1/2", CrMo, hex 8-24 mm

Content							
hexagon		11 mm	22000-K11	16 mm	22000-K16	22 mm	22000-K22
1/2", standard		12 mm	22000-K12	17 mm	22000-K17	24 mm	22000-K24
8 mm	22000-K8	13 mm	22000-K13	18 mm	22000-K18		
10 mm	22000-K10	14 mm	22000-K14	19 mm	22000-K19		
		15 mm	22000-K15	21 mm	22000-K21		

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Set	hexagon	8-24 mm	1/2"	14	1088

Impact Socket Set, 10 pcs., 1/2", CrMo, hex 10-24 mm

Content		13 mm	22000-K13	21 mm	22000-K21
hexagon		14 mm	22000-K14	22 mm	22000-K22
1/2", standard		15 mm	22000-K15	24 mm	22000-K24
10 mm	22000-K10	17 mm	22000-K17		
12 mm	22000-K12	19 mm	22000-K19		

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Set	hexagon	10-24 mm	1/2"	10	1010-12

Deep Impact Socket Set, 10 pcs., 1/2", CrMo, hex 13-24 mm

Content		15 mm	22099-K15	21 mm	22099-K21
hexagon		16 mm	22099-K16	22 mm	22099-K22
1/2", deep		17 mm	22099-K17	24 mm	22099-K24
13 mm	22099-K13	18 mm	22099-K18		
14 mm	22099-K14	19 mm	22099-K19		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Impact Socket Set	hexagon	13-24 mm	1/2"	10	1010-12T

Deep Impact Socket Set, 16 pcs., 1/2", CrMo, hex 10-32 mm

Content		14 mm	22099-K14	22 mm	22099-K22
hexagon		15 mm	22099-K15	24 mm	22099-K24
1/2", deep		16 mm	22099-K16	27 mm	22099-K27
10 mm	22099-K10	17 mm	22099-K17	30 mm	22099-K30
11 mm	22099-K11	18 mm	22099-K18	32 mm	22099-K32
12 mm	22099-K12	19 mm	22099-K19		
13 mm	22099-K13	21 mm	22099-K21		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Impact Socket Set	hexagon	10-32 mm	1/2"	16	1099

Impact Socket Set, stubby 17 pcs., 1/2", CrMo, hex 8-24 mm

- extra short pattern
- includes all intermediate sizes
- ideal for narrow spaces
- requires less space when used with ordinary ratchet or impact wrench

Content		12 mm	*5217-12*	19 mm	*5217-19*
hexagon		13 mm	*5217-13*	20 mm	*5217-20*
1/2", 28.25 mm long		14 mm	*5217-14*	21 mm	*5217-21*
8 mm	*5217-8*	15 mm	*5217-15*	22 mm	*5217-22*
9 mm	*5217-9*	16 mm	*5217-16*	23 mm	*5217-23*
10 mm	*5217-10*	17 mm	*5217-17*	24 mm	*5217-24*
11 mm	*5217-11*	18 mm	*5217-18*		

Item	Profile	Form	Size	Drive	pcs	Art. No.
Impact Socket Set	hexagon	extra short	8-24 mm	1/2"	17	5217SP

Impact Socket Set, stubby, 17 pcs., 1/2", CrMo, hex 8-24 mm

- extra short pattern
- includes all intermediate sizes
- ideal for narrow spaces
- requires less space when used with ordinary ratchet or impact wrench
- supplied on socket rail

Content					
hexagon		12 mm	*5217-12*	19 mm	*5217-19*
1/2", 28.25 mm long		13 mm	*5217-13*	20 mm	*5217-20*
8 mm	*5217-8*	14 mm	*5217-14*	21 mm	*5217-21*
9 mm	*5217-9*	15 mm	*5217-15*	22 mm	*5217-22*
10 mm	*5217-10*	16 mm	*5217-16*	23 mm	*5217-23*
11 mm	*5217-11*	17 mm	*5217-17*	24 mm	*5217-24*
		18 mm	*5217-18*		

Item	Profile	Form	Size	Drive	Length	pcs	Art. No.
Impact Socket Set	hexagon	extra short	8-24 mm	1/2"	28.25 mm	17	5217

Impact Socket Set, 8 pcs., 3/4", CrMo, hex 22-38 mm

Content					
hexagon		24 mm	22600-K24	33 mm	22600-K33
3/4", standard		27 mm	22600-K27	36 mm	22600-K36
22 mm	22600-K22	30 mm	22600-K30	38 mm	22600-K38
		32 mm	22600-K32		

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Set	hexagon	22-38 mm	3/4"	8	1010-34

Impact Socket Set, 16 pcs., 3/4", CrMo, hex 19-50 mm

Content					
hexagon		27 mm	22600-K27	38 mm	22600-K38
3/4", standard		30 mm	22600-K30	40 mm	22600-K40
19 mm	22600-K19	32 mm	22600-K32	41 mm	22600-K41
21 mm	22600-K21	33 mm	22600-K33	46 mm	22600-K46
22 mm	22600-K22	34 mm	22600-K34	50 mm	22600-K50
24 mm	22600-K24	35 mm	22600-K35		
		36 mm	22600-K36		

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Set	hexagon	19-50 mm	3/4"	16	37140

Deep Impact Socket Set, 8 pcs., 3/4", CrMo, hex 22-38 mm

Content					
hexagon		24 mm	22699-K24	33 mm	22699-K33
3/4", deep		27 mm	22699-K27	36 mm	22699-K36
22 mm	22699-K22	30 mm	22699-K30	38 mm	22699-K38
		32 mm	22699-K32		

Item	Profile	Size	Drive	pcs	Art. No.
Deep Impact Socket Set	hexagon	22-38 mm	3/4"	8	1010-34T

Deep Impact Socket Set, 11 pcs., 3/4", CrMo, deep, hex 24-50 mm

Content		30 mm	22699-K30	38 mm	22699-K38
hexagon		32 mm	22699-K32	41 mm	22699-K41
3/4", deep		33 mm	22699-K33	46 mm	22699-k46
24 mm	22699-K24	34 mm	22699-K34	50 mm	22699-K50
27 mm	22699-K27	36 mm	22699-K36		

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Set	hexagon	24-50 mm	3/4"	11	37143

Impact Socket Set, 8 pcs., 1", CrMo, hex 27-50 mm

Content		30 mm	22800-K30	41 mm	22800-K41
hexagon		32 mm	22800-K32	46 mm	22800-K46
1", standard		36 mm	22800-K36	50 mm	22800-K50
27 mm	22800-K27	38 mm	22800-K38		

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Set	hexagon	27-50 mm	1"	8	5250

Impact Socket Set, 56 pcs., 1/2", CrMo

Content		10 mm	12072-K10	1/2", 78 mm long		M10	12011-K10
Hexagon		12 mm	12072-K12	T20	12073-K20	M12	12011-K12
1/2", 40 mm long		14 mm	12072-K14	T25	12073-K25	M14	12011-K14
5 mm	12022-K5	17 mm	12072-K17	T27	12073-K27	M16	12011-K16
6 mm	12022-K6	19 mm	12072-K19	T30	12073-K30	M18	12011-K18
7 mm	12022-K7	TX-Star T		T40	12073-K40	1/2", 78 mm long	
8 mm	12022-K8	1/2", 40 mm long		T45	12073-K45	M5	12071-K5
10 mm	12022-K10	T20	12033-K20	T50	12073-K50	M6	12071-K6
12 mm	12022-K12	T25	12033-K25	T55	12073-K55	M8	12071-K8
14 mm	12022-K14	T27	12033-K27	T60	12073-K60	M9	12071-K9
17 mm	12022-K17	T30	12033-K30	T70	12073-K70	M10	12071-K10
19 mm	12022-K19	T40	12033-K40	Spline		M12	12071-K12
1/2", 78 mm long		T45	12033-K45	1/2", 40 mm long		M14	12071-K14
5 mm	12072-K5	T50	12033-K50	M5	12011-K5	M16	12071-K16
6 mm	12072-K6	T55	12033-K55	M6	12011-K6	M18	12071-K18
7 mm	12072-K7	T60	12033-K60	M8	12011-K8		
8 mm	12072-K8	T70	12033-K70	M9	12011-K9		

Item	Profile	Drive	pcs	Art. No.
Impact Socket Set	Hexagon, TX-Star T, Spline	1/2"	56	37180

Impact Socket Bit Set, stubby, 10 pcs., 1/2", TX-Star T20-70

Content		T27	12033-K27	T55	12033-K55
TX-Star T		T30	12033-K30	T60	12033-K60
1/2", 40 mm long		T40	12033-K40	T70	12033-K70
T20	12033-K20	T45	12033-K45		
T25	12033-K25	T50	12033-K50		

Item	Profile	Size	Drive	Length	pcs	Art. No.
Impact Socket Bit Set	TX-Star T	T20-70	1/2"	40 mm	10	5010

Impact Socket Bit Set, 9 pcs., 1/2", TX-Star T20-60

Content		T25	12073-K25	T45	12073-K45
TX-Star T		T27	12073-K27	T50	12073-K50
1/2", 78 mm long		T30	12073-K30	T55	12073-K55
T20	12073-K20	T40	12073-K40	T60	12073-K60

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	TX-Star T	T20-60	1/2"	9	5210

Impact Socket Bit Set, stubby, 9 pcs., 1/2", hex 5-19 mm

Content		6 mm	12022-K6	12 mm	12022-K12
Hexagon		7 mm	12022-K7	14 mm	12022-K14
1/2", 40 mm long		8 mm	12022-K8	17 mm	12022-K17
5 mm	12022-K5	10 mm	12022-K10	19 mm	12022-K19

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	Hexagon	5-19 mm	1/2"	9	5015

Impact Socket Bit Set, 9 pcs., 1/2", hex 4-19 mm

Content		6 mm	12072-K6	12 mm	12072-K12
Hexagon		7 mm	12072-K7	14 mm	12072-K14
1/2", 78 mm long		8 mm	12072-K8	17 mm	12072-K17
5 mm	12072-K5	10 mm	12072-K10	19 mm	12072-K19

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	Hexagon	5-19 mm	1/2"	9	5215

Impact Socket Bit Set, stubby, 9 pcs., 1/2", spline M5-18

Content		M6	12011-K6	M12	12011-K12
Spline		M8	12011-K8	M14	12011-K14
1/2", 40 mm long		M9	12011-K9	M16	12011-K16
M5	12011-K5	M10	12011-K10	M18	12011-K18

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	Spline	M5-18	1/2"	9	5011

Impact Socket Bit Set, 9 pcs., 1/2", spline M5-18

- includes size M9, e.g. for Toyota cylinder head bolts

Content					
Spline	M6	12071-K6	M12	12071-K12
1/2", 78 mm long	M8	12071-K8	M14	12071-K14
M5 12071-K5	M9	12071-K9	M16	12071-K16
	M10	12071-K10	M18	12071-K18

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	Spline	M5-18	1/2"	9	5211

Impact Socket Bit Set, 6 pcs., 1/2", CrMo, spline M14-18

- e.g. for assembly work on running gear of recent Audi / VW models

Content	Profile	Size	Drive	Length	Art. No.
Impact Socket Bit	Spline	M14	1/2"	40 mm	12011-K14
Impact Socket Bit	Spline	M16	1/2"	40 mm	12011-K16
Impact Socket Bit	Spline	M18	1/2"	40 mm	12011-K18
Impact Socket Bit	Spline	M14	1/2"	78 mm	12071-K14
Impact Socket Bit	Spline	M16	1/2"	78 mm	12071-K16
Impact Socket Bit	Spline	M18	1/2"	78 mm	12071-K18

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	Spline	M14-18	1/2"	6	5002

accessory

Item	Art. No.
Impact Socket Bit, 1/2", spline M12x78 mm	12071-K12

Impact Socket Bit Set, 9 pcs., 1/2", ribe-profile M5-14

Content					
Spline (for Ribe)	M6	12075-K6	M10	12075-K10
1/2", 78 mm long	M7	12075-K7	M12	12075-K12
	M8	12075-K8	M13	12075-K13
M5 12075-K5	M9	12075-K9	M14	12075-K14

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	Spline (for Ribe)	M5-14	1/2"	9	5212

Deep Impact Socket Set, 9 pcs., 1/2", TX-Star E10-24

Content					
TX-Star E	E11	*22460-K11*	E18	*22460-K18*
1/2", deep	E12	*22460-K12*	E20	*22460-K20*
	E14	*22460-K14*	E22	*22460-K22*
E10 *22460-K10*	E16	*22460-K16*	E24	*22460-K24*

Item	Profile	Size	Drive	pcs	Art. No.
Deep Impact Socket Set	TX-Star E	E10-24	1/2"	9	5200

Impact Socket Bit Set, 22 pcs., 3/4", tx-star / hexagon

Content	Profile	Size	Length	Art. No.
Impact Socket Bit	TX-Star T	T60	60 mm	15033-K60
Impact Socket Bit	TX-Star T	T70	60 mm	15033-K70
Impact Socket Bit	TX-Star T	T80	60 mm	15033-K80
Impact Socket Bit	TX-Star T	T90	60 mm	15033-K90
Impact Socket Bit	TX-Star T	T100	60 mm	15033-K100
Impact Socket Bit	TX-Star T	T60	105 mm	15103-K60
Impact Socket Bit	TX-Star T	T70	105 mm	15103-K70
Impact Socket Bit	TX-Star T	T80	105 mm	15103-K80
Impact Socket Bit	TX-Star T	T90	105 mm	15103-K90
Impact Socket Bit	TX-Star T	T10	105 mm	15103-K100
Impact Socket Bit	Hexagon	14 mm	60 mm	15022-K14
Impact Socket Bit	Hexagon	17 mm	60 mm	15022-K17
Impact Socket Bit	Hexagon	19 mm	60 mm	15022-K19
Impact Socket Bit	Hexagon	21 mm	60 mm	15022-K21
Impact Socket Bit	Hexagon	22 mm	60 mm	15022-K22
Impact Socket Bit	Hexagon	24 mm	60 mm	15022-K24
Impact Socket Bit	Hexagon	14 mm	105 mm	15102-K14
Impact Socket Bit	Hexagon	17 mm	105 mm	15102-K17
Impact Socket Bit	Hexagon	19 mm	105 mm	15102-K19
Impact Socket Bit	Hexagon	21 mm	105 mm	15102-K21
Impact Socket Bit	Hexagon	22 mm	105 mm	15102-K22
Impact Socket Bit	Hexagon	24 mm	105 mm	15102-K24

Item	Size	Drive	Length	pcs	Art. No.
Impact Socket Bit Set	14-24 mm / T60-100	3/4"	60 mm + 105 mm	22	37152

Impact Bit Set for Trucks, 16 pcs., 3/4+1"

- includes hexagon key

Content			
TX-Star E		19 mm	*4716-K19*
22 mm bit, 110 mm		22 mm	*4716-K22*
E18	*4716-E18*	24 mm	*4716-K24*
E20	*4716-E20*	TX-Star T	
E22	*4716-E22*	22 mm bit, 110 mm	
E24	*4716-E24*	T60	*4716-T60*
Hexagon		T70	*4716-T70*
22 mm bit, 110 mm		T80	*4716-T80*
17 mm	*4716-K17*	T90	*4716-T90*
		T100	*4716-T100*

Item	Profile	Drive	pcs	Art. No.
Impact Bit Set for Trucks	TX-Star E, TX-Star T, Hexagon	3/4+1"	16	4716

Drive Tools / Accessory, 3/4"	
Bit Holder, CrMo., 3/4"	*4716-AD34*
Drive Tools / Accessory, 1"	
Bit Holder, CrMo, 1"	*4716-AD1*

Impact Socket Set, 6 pcs., 3/4", tx-star / bi-hex

Content	Profile	Size	Length	Application	Art. No.
Impact Socket	bi-hexagon	17 mm	110 mm	MB 400, 420, 500	5220-17
Impact Socket	bi-hexagon	19 mm	110 mm	MB 300, 400, 900	5220-19
Impact Socket	TX-Star E	E18	110 mm	MAN M2000, bus engines D08	5221-E18
Impact Socket	TX-Star E	E20	110 mm	MAN F2000, F90, F8, bus engines D25, D28	5221-E20
Impact Socket	TX-Star E	E22	110 mm	MAN common-rail engines D20	5221-E22
Impact Socket	TX-Star E	E24	110 mm	MAN common-rail engines D20	5221-E24

Item	Profile	Drive	pcs	Art. No.
Impact Socket Set	bi-hexagon, TX-Star E	3/4"	6	5226

Drive Shaft Sockets, 8 pcs., 3/4", bi-hexagon + hexagon

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.
- for hexagon screw connections in propshafts

Content	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	27 mm	3/4"	90 mm	5208-27
Drive Shaft Socket	bi-hexagon	30 mm	3/4"	90 mm	5208-30
Drive Shaft Socket	bi-hexagon	32 mm	3/4"	90 mm	5208-32
Drive Shaft Socket	bi-hexagon	34 mm	3/4"	90 mm	5208-34
Drive Shaft Socket	bi-hexagon	36 mm	3/4"	90 mm	5208-36
Impact Socket Bit	Hexagon	14 mm	3/4"	60 mm	15022-K14
Impact Socket Bit	Hexagon	17 mm	3/4"	60 mm	15022-K17
Impact Socket Bit	Hexagon	19 mm	3/4"	60 mm	15022-K19

Item	Profile	Drive	pcs	Art. No.
Impact Socket Set	bi-hexagon, Hexagon	3/4"	8	5208

Accessory

Item	Art. No.
Drive Shaft Socket, 3/4", CrMo, bi-hex 24 mm	5208-24

Drive Shaft Sockets, 12 pcs., 1/2", bi-hexagon / spline / hexagon

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.
- for hexagon screw connections in propshafts

Content	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	24 mm	1/2"	85 mm	4803-24
Drive Shaft Socket	bi-hexagon	27 mm	1/2"	85 mm	4803-27
Drive Shaft Socket	bi-hexagon	30 mm	1/2"	85 mm	4803-30
Drive Shaft Socket	bi-hexagon	32 mm	1/2"	85 mm	4803-32
Drive Shaft Socket	bi-hexagon	34 mm	1/2"	85 mm	4803-34
Drive Shaft Socket	bi-hexagon	36 mm	1/2"	85 mm	4803-36
Impact Socket Bit	Spline	M14	1/2"	78 mm	12071-K14
Impact Socket Bit	Spline	M16	1/2"	78 mm	12071-K16
Impact Socket Bit	Spline	M18	1/2"	78 mm	12071-K18
Impact Socket Bit	Hexagon	14 mm	1/2"	40 mm	12022-K14
Impact Socket Bit	Hexagon	17 mm	1/2"	40 mm	12022-K17
Impact Socket Bit	Hexagon	19 mm	1/2"	40 mm	12022-K19

Item	Profile	Drive	pcs	Art. No.
Impact Socket Set	bi-hexagon, Spline, Hexagon	1/2"	12	37148

Drive Shaft Socket Set

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.
- for hexagon screw connections in propshafts

Content	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	27 mm	1/2"	85 mm	4803-27
Drive Shaft Socket	bi-hexagon	30 mm	1/2"	85 mm	4803-30
Drive Shaft Socket	bi-hexagon	32 mm	1/2"	85 mm	4803-32
Drive Shaft Socket	bi-hexagon	34 mm	1/2"	85 mm	4803-34
Drive Shaft Socket	bi-hexagon	36 mm	1/2"	85 mm	4803-36
Impact Socket Bit	Hexagon	14 mm	1/2"	40 mm	12022-K14
Impact Socket Bit	Hexagon	17 mm	1/2"	40 mm	12022-K17
Impact Socket Bit	Hexagon	19 mm	1/2"	40 mm	12022-K19

Item	Profile	Size	Drive	Length	pcs	Art. No.
Impact Socket Set	bi-hexagon	27, 30, 32, 34, 36 mm	1/2"	85 mm	8	4808

Drive Shaft Socket Set, 3 pcs., 1/2", bi-hexagon

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.

Content	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	30 mm	1/2"	85 mm	4803-30
Drive Shaft Socket	bi-hexagon	32 mm	1/2"	85 mm	4803-32
Drive Shaft Socket	bi-hexagon	36 mm	1/2"	85 mm	4803-36

Item	Profile	Size	Drive	Length	pcs	Art. No.
Impact Socket Set	bi-hexagon	30, 32, 36 mm	1/2"	85 mm	3	4803

Specialist Sockets, twist profile, 9 pcs., 3/8+1/2", ø 2-14 mm

- for removing rounded or corroded screws with bit profile, e.g. hexagon, tx-star, spline
- aggressive and conical twist profile
- 3/8" and 1/2" sq. drive or 17 and 22 mm hexagon head

Content		4 mm	*2111-4*	10 mm	*2111-10*
Twist Profile		5 mm	*2111-5*	12 mm	*2111-12*
3/8", standard		6 mm	*2111-6*	14 mm	*2111-14*
2 mm	*2111-2*	1/2", standard			
3 mm	*2111-3*	8 mm	*2111-8*		

Item	Profile	Size	Drive	pcs	Art. No.
Specialist Sockets	Twist Profile	2-14 mm	3/8+1/2"	9	2111

Specialist Sockets, twist profile, 15 pcs., 1/4+1/2", 6-27 mm

- for removing damaged or rounded nuts and bolts
- universal set, suitable for many popular profiles like hexagon, tx-star and spline
- aggressive twist profile
- includes 2 punches

Content		15 mm	*22000-X15*	2 mm	*2111-2*
Twist Profile		16 mm	*22000-X16*	3 mm	*2111-3*
1/4", standard		17 mm	*22000-X17*	4 mm	*2111-4*
6 mm	*21200-X6*	18 mm	*22000-X18*	5 mm	*2111-5*
8 mm	*21200-X8*	19 mm	*22000-X19*	6 mm	*2111-6*
10 mm	*21200-X10*	21 mm	*22000-X21*	1/2", standard	
11 mm	*21200-X11*	22 mm	*22000-X22*	8 mm	*2111-8*
12 mm	*21200-X12*	24 mm	*22000-X24*	10 mm	*2111-10*
1/2", standard		27 mm	*22000-X27*	12 mm	*2111-12*
13 mm	*22000-X13*	Twist Profile		14 mm	*2111-14*
14 mm	*22000-X14*	3/8", standard			

Item	Size	Drive	pcs	Art. No.
Twist Sockets	6-27 mm	1/4+3/8+1/2"	27	2127

Specialist Sockets, twist profile, 10 pcs., 3/8", 10-19 mm

- for removing damaged or rounded nuts and bolts
- aggressive twist profile
- includes 1 punch

Content		11 mm	*21600-X11*	15 mm	*21600-X15*
Twist Profile		12 mm	*21600-X12*	16 mm	*21600-X16*
3/8", standard		13 mm	*21600-X13*	17 mm	*21600-X17*
10 mm	*21600-X10*	14 mm	*21600-X14*	19 mm	*21600-X19*

Item	Size	Drive	pcs	Art. No.
Twist Sockets	10-19 mm	3/8"	10	2109

Specialist Sockets, twist profile, 9 pcs., 3/4", 27-41 mm

- for removing damaged or rounded nuts and bolts
- aggressive twist profile
- includes punch

Item	Size	Drive	pcs	Art. No.
Twist Sockets	27, 30, 32, 33, 34, 36, 38, 41 mm	3/4"	9	2129

Specialist Sockets, twist profile, 15 pcs., 1/4+1/2", 6-27 mm

- for removing damaged or rounded nuts and bolts
- aggressive twist profile
- includes 2 punches

Content		11 mm	*21200-X11*	17 mm	*22000-X17*
Twist Profile		12 mm	*21200-X12*	19 mm	*22000-X19*
1/4", standard		1/2", standard		21 mm	*22000-X21*
6 mm	*21200-X6*	13 mm	*22000-X13*	24 mm	*22000-X24*
8 mm	*21200-X8*	14 mm	*22000-X14*	27 mm	*22000-X27*
10 mm	*21200-X10*	15 mm	*22000-X15*		

Item	Size	Drive	pcs	Art. No.
Twist Sockets	6-27 mm	1/4+1/2"	15	2115

Specialist Sockets, twist profile, 10 pcs., 3/8", 9-19 mm

- for removing damaged or rounded nuts and bolts
- aggressive twist profile
- with hexagon head

Content		11 mm	*2110-11*	15 mm	*2110-15*
Twist Profile		12 mm	*2110-12*	16 mm	*2110-16*
9 mm	*2110-9*	13 mm	*2110-13*	17 mm	*2110-17*
10 mm	*2110-10*	14 mm	*2110-14*	19 mm	*2110-19*

Item	Size	Drive	pcs	Art. No.
Specialist Sockets	9-19 mm	3/8"	10	2110

Specialist Sockets, twist profile, 16 pcs., 1/4+1/2", 8-27 mm

- for removing damaged or rounded nuts and bolts
- aggressive twist profile
- includes 2 punches
- 1/4" - 8, 10, 11, 12, 13, 14 mm
- 1/2" - 15, 16, 17, 19, 21, 22, 24, 27 mm

Item	Size	Drive	pcs	Art. No.
Specialist Sockets	8-27 mm	1/4+1/2"	16	72115

Ratchets

2

Reversible Ratchets, with finger disc

- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
Reversible Ratchet	finger disc	1/4"	72	140 mm	1218-1
Reversible Ratchet	finger disc	3/8"	72	200 mm	1218-2
Reversible Ratchet	finger disc	1/2"	72	250 mm	1218-3

Narrow Space Reversible Ratchets, with finger disc

- very compact head construction, ideal for narow spaces
- quick-release mechanism

Item	Form	Drive	Teeth	Art. No.
Narrow Space Reversible Ratchet	finger disc	1/4"	72	1219-1
Narrow Space Reversible Ratchet	finger disc	3/8"	72	1219-2
Narrow Space Reversible Ratchet	finger disc	1/2"	72	1219-3

Reversible Ratchets

- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
Reversible Ratchet	ergonomic	1/4"	72	145 mm	1205-1
Reversible Ratchet	ergonomic	1/2"	72	255 mm	1205-3
Reversible Ratchet	ergonomic	3/8"	72	205 mm	1205-2

Reversible Ratchets

- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
Reversible Ratchet	ergonomic	1/4"	72	150 mm	1207-1
Reversible Ratchet	ergonomic	3/8"	72	205 mm	1207-2
Reversible Ratchet	ergonomic	1/2"	72	250 mm	1207-3

ABS Reversible Ratchets

- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
ABS Reversible Ratchet	ergonomic	1/4"	72	145 mm	1206-1
ABS Reversible Ratchet	ergonomic	3/8"	72	205 mm	1206-2
ABS Reversible Ratchet	ergonomic	1/2"	72	255 mm	1206-3

Reversible Ratchets

- quick-release mechanism

Item	Drive	Teeth	Length	Art. No.
Reversible Ratchet	1/4"	72	140 mm	1215-1
Reversible Ratchet	3/8"	72	200 mm	1215-2
Reversible Ratchet	1/2"	72	250 mm	1215-3

Reversible Ratchets

- quick-release mechanism

Item	Drive	Teeth	Length	Art. No.
Reversible Ratchet	1/4"	45	145 mm	1199-1A
Reversible Ratchet	3/8"	48	200 mm	1199-2
Reversible Ratchet	1/2"	45	250 mm	1199-3A

Ratchets

Item	Drive	Length	Art. No.
Ratchet	1/4"	140 mm	207-14CV
Ratchet	1/2"	250 mm	207-12CV

Stubby Reversible Ratchets

- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
Stubby Reversible Ratchet	extra short	1/4"	72	105 mm	1203-1
Stubby Reversible Ratchet	extra short	3/8"	72	135 mm	1203-2
Stubby Reversible Ratchet	extra short	1/2"	72	170 mm	1203-3

Twist Grip Ratchets

- ideal for narrow spaces
- twisting the handle will make square drive turn
- can also be used like any ordinary ratchet for loosening and tightening
- for left and right turn
- reversible through square coupler
- marking for turn direction

Item	Form	Drive	Teeth	Length	Art. No.
Twist Grip Ratchet	twist grip	1/4"	60	180 mm	1211-1
Twist Grip Ratchet	twist grip	3/8"	60	240 mm	1211-2
Twist Grip Ratchet	twist grip	1/2"	60	290 mm	1211-3

Micro Reversible Ratchet, with finger disc

- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
Micro Reversible Ratchet	finger disc	1/4"	72	93 mm	1222

Micro Bit Reversible Ratchet, with finger disc

- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
Micro Reversible Ratchet	finger disc	1/4" hex	72	93 mm	1221

Reversible Swivel Ratchet

- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
Reversible Ratchet	flexible head 360°	3/8"	48	245 mm	4600-2

Reversible Swivel Ratchets

- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
Reversible Ratchet	flexible head 180°	1/4"	72	165 mm	4610-1
Reversible Ratchet	flexible head 180°	3/8"	72	240 mm	4610-2
Reversible Ratchet	flexible head 180°	1/2"	72	285 mm	4610-3

Telescopic Reversible Ratchets

- lockable in 3 positions (1208/1), 4 positions (1208/2), 6 positions (1208/3) and 6 positions (1208/4)
- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
Reversible Ratchet	telescopic	1/4"	72	150-200 mm	1208-1
Reversible Ratchet	telescopic	3/8"	72	220-320 mm	1208-2
Reversible Ratchet	telescopic	1/2"	72	300-440 mm	1208-3
Reversible Ratchet	telescopic	1/2"	72	460-600 mm	1208-4

Telescopic Reversible Ratchet Set, 3 pcs.

- lockable in 3 positions (1208/1), 4 positions (1208/2) and 6 positions (1208/3)
- quick-release mechanism

Content	Form	Drive	Teeth	Length	Art. No.
Reversible Ratchet	telescopic	1/4"	72	150-200 mm	1208-1
Reversible Ratchet	telescopic	3/8"	72	220-320 mm	1208-2
Reversible Ratchet	telescopic	1/2"	72	300-440 mm	1208-3

Item	Drive	Teeth	pcs	Art. No.
Telescopic Reversible Ratchet Set	1/4+3/8+1/2"	72	3	1209

Telescopic Reversible Ratchet

- lockable in 6 positions

Item	Form	Drive	Teeth	Length	Art. No.
Reversible Ratchet	telescopic	3/4"	24	610-1010 mm	22555

Reversible Ratchets

22550

22552

Item	Drive	Teeth	Length	Art. No.
Reversible Ratchet	3/4"	24	500 mm	22550
Reversible Ratchet	3/4"	24	1000 mm	22552

Reversible Ratchet, 2 pcs.

- ratchet head with turning bar

Item	Drive	Teeth	Length	pcs	Art. No.
Reversible Ratchet	1"	24	675 mm	2	22760

Ratchets

Item	Form	Drive	Teeth	Length	Art. No.
Ratchet	with square coupler	1/2"	32	270 mm	1202-3
Ratchet	without square coupler	1/2"	32	270 mm	1202-3OV

accessory

Item	Art. No.
Square Coupler, 1/2"	1202VK

Repair Kits for Ratchet Heads

1/4" sq. drive	
for 1203-1, 1205-1, 1208-1, 4610-1	1205-1-REP
for 1207-1	1207-1-REP
for 1206-1	1206-1-REP
for 1218-1	1218-1-REP
for 1219-1	1219-1-REP
for 1215-1	1215-1-REP
for 1199-1A	1199-1A-REP
for 1199-1	1199-1-REP
for 207-14CV	207-14-REP
3/8" sq. drive	
for 1203-2, 1205-2, 1208-2, 4610-2	1205-2-REP
for 1207-2	1207-2-REP
for 1206-2	1206-2-REP
for 1218-2	1218-2-REP
for 1219-2	1219-2-REP
for 1215-2	1215-2-REP
for 1199-2	1199-2-REP
1/2" sq. drive	
for 1203-3, 1205-3, 1208-3+4, 4610-3	1205-3-REP
for 1207-3	1207-3-REP
for 1206-3	1206-3-REP
for 1218-3	1218-3-REP
for 1219-3	1219-3-REP
for 1215-3	1215-3-REP
for 1199-3A	1199-3A-REP
for 1199-3	1199-3-REP
for 207-12CV	207-12-REP
3/4" sq. drive	
for 22550, 22552	22550-REP
for 22555	22555-REP
1" sq. drive	
for 22760	22760-REP

Swivel Bars

Item	Form	Drive	Length	Art. No.
Swivel Bar	telescopic, flexible head 180°	1/2"	450-600 mm	22728
Swivel Bar	flexible head 180°	1/2"	620 mm	22730
Swivel Bar	flexible head 180°	1/2"	760 mm	22731
Swivel Bar	flexible head 180°	3/4"	620 mm	22740
Swivel Bar	flexible head 180°	3/4"	1000 mm	22741
Swivel Bar	flexible head 180°	1"	1000 mm	22751

22728

22730, 22731, 22740, 22741, 22751

Repair Sets for Swivel Bar Head

Item	Drive	Art. No.
Repair Kit for No. 22728 + 22730 + 22731	1/2"	22730-REP
Repair Kit for No. 22740 + 22741	3/4"	22740-REP
Repair Kit for No. 22751	1"	22751-REP

Spinner Handle, 1/4", 150 mm

Item	Drive	Length	Art. No.
Spinner Handle	1/4"	150 mm	21116

Spinner Handle, 1/4", 150 mm

Item	Drive	Length	Art. No.
Spinner Handle	1/4"	150 mm	21119

Spinner Handle, 1/4", 150 mm

Item	Drive	Length	Art. No.
Spinner Handle	1/4"	150 mm	21117

Flexible Screwdriver

Item	Form	Drive	Length	Art. No.
Flexible Screwdriver	flexible	1/4"	280 mm	21115

Sliding T-Bars

Item	Drive	Length	Art. No.
Sliding T-Bar	1/4"	115 mm	21120
Sliding T-Bar	3/8"	200 mm	21520
Sliding T-Bar	1/2"	250 mm	21920
Sliding T-Bar	3/4"	450 mm	22520

Sliding T-Bars, xcess performance

Item	Drive	Length	Art. No.
Sliding T-Bar	1/4"	115 mm	24901
Sliding T-Bar	3/4"	450 mm	29901

Impact Sliding T-Bars, chrome-molybdenum-steel

Item	Drive	Length	Art. No.
Sliding T-Bar	1/2"	300 mm	21920K
Sliding T-Bar	3/4"	450 mm	29901K
Sliding T-Bar	3/4"	500 mm	22520K

Sliding T-Heads, for extension bars

Item	Drive	Art. No.
Sliding T-Head	3/8"	21501
Sliding T-Head	1/2"	21901
Sliding T-Head	1"	22720

Sliding T-Head, for extension bars, xcess performance

Item	Drive	Art. No.
Sliding T-Head	1/2"	28901

Extension Bars

Extension Bars

Item	Drive	Length	Art. No.
Extension Bar	1/4"	50 mm	21100
Extension Bar	1/4"	75 mm	21103
Extension Bar	1/4"	100 mm	21105
Extension Bar	1/4"	300 mm	21107
Extension Bar	1/4"	500 mm	21108
Extension Bar	3/8"	75 mm	21500
Extension Bar	3/8"	125 mm	21503
Extension Bar	3/8"	150 mm	21505
Extension Bar	3/8"	610 mm	21560
Extension Bar	1/2"	125 mm	21900
Extension Bar	1/2"	250 mm	21905
Extension Bar	1/2"	600 mm	21960
Extension Bar	3/4"	100 mm	22500
Extension Bar	3/4"	200 mm	22505
Extension Bar	3/4"	400 mm	22510
Extension Bar	1"	200 mm	22700
Extension Bar	1"	400 mm	22705

Extension Bars, xcess performance

Item	Drive	Length	Art. No.
Extension Bar	1/4"	50 mm	24805
Extension Bar	1/4"	100 mm	24810
Extension Bar	1/4"	300 mm	24830
Extension Bar	3/8"	125 mm	26812
Extension Bar	1/2"	125 mm	28812
Extension Bar	1/2"	250 mm	28825
Extension Bar	3/4"	100 mm	29810
Extension Bar	3/4"	200 mm	29820
Extension Bar	3/4"	400 mm	29840

Wobble Extension Bars

Item	Drive	Length	Art. No.
Wobble Extension Bar	1/4"	50 mm	20143-50
Wobble Extension Bar	1/4"	100 mm	20143-100
Wobble Extension Bar	1/4"	150 mm	20143-150
Wobble Extension Bar	1/4"	225 mm	20143-225
Wobble Extension Bar	3/8"	75 mm	20383-75
Wobble Extension Bar	3/8"	125 mm	20383-125
Wobble Extension Bar	3/8"	150 mm	20383-150
Wobble Extension Bar	3/8"	225 mm	20383-225
Wobble Extension Bar	1/2"	50 mm	20050
Wobble Extension Bar	1/2"	125 mm	20125
Wobble Extension Bar	1/2"	250 mm	20250

Impact Extension Bars

Item	Drive	Length	Art. No.
Impact Extension Bar	1/2"	125 mm	20125K
Impact Extension Bar	3/4"	100 mm	29810K
Impact Extension Bar	3/4"	200 mm	29820K
Impact Extension Bar	3/4"	400 mm	29840K

Flexible Extension Bars

Item	Form	Drive	Length	Art. No.
Flexible Extension Bar	flexible	1/4"	150 mm	21109
Flexible Extension Bar	flexible	1/4"	450 mm	21110
Flexible Extension Bar	flexible	1/2"	200 mm	21918

21109

21918

Extension Bar Set, 3 pcs.

Item	Drive	Length	pcs	Art. No.
Extension Bar Set	1/2"	450, 600, 750 mm	3	21910

Extension Bar Set, 3 pcs.

Item	Drive	Length	pcs	Art. No.
Extension Bar Set	1/4+3/8+1/2"	450 mm	3	20700

Extension Bar Set, 3 pcs.

Item	Drive	Length	pcs	Art. No.
Extension Bar Set	1/4"	300, 380, 450 mm	3	21130

Extension Bar Set, 3 pcs.

Item	Drive	Length	pcs	Art. No.
Extension Bar Set	1/4"	300, 380, 450 mm	3	71130

Wobble Extension Bar Set, 9 pcs.

Content		3/8" sq. drive		50 mm	20050
1/4" sq. drive		75 mm	20383-75	125 mm	20125
50 mm	20143-50	150 mm	20383-150	250 mm	20250
100 mm	20143-100	225 mm	20383-225		
225 mm	20143-225	1/2" sq. drive			

Item	Drive	pcs	Art. No.
Wobble Extension Bar Set	1/4+3/8+1/2"	9	4709

Wobble Extension Bar Sets, 3 pcs.

Item	Drive	Length	pcs	Art. No.
Wobble Extension Bar Set	1/4"	50, 150, 225 mm	3	20143
Wobble Extension Bar Set	3/8"	75, 150, 225 mm	3	20383
Wobble Extension Bar Set	1/2"	50, 125, 250 mm	3	20123

Ratchet Extension

- power transmission up to 130 NM through stable chain
- ideal for use in hard-to-reach areas, e.g. in engine compartment on end cover screw connections for transversely installed engines

Item	Drive	Length	Adapter for	Art. No.
Ratchet Extension	3/8"	340 mm	1/4+3/8" sq. drive	1225

Adapters

Universal Joints

Item	Drive	Art. No.
Universal Joint	1/4"	21125
Universal Joint	3/8"	21525
Universal Joint	1/2"	21925

Universal Joints, xcess performance

Item	Drive	Art. No.
Universal Joint	1/4"	24925
Universal Joint	3/8"	26925
Universal Joint	1/2"	28925

Adapter Set, xcess performance, 8 pcs., 1/4-3/4"

Content	Drive	Adapter for	Art. No.
Socket Converter	1/4"	1/4" female x 3/8" male	24920
Socket Converter	3/8"	3/8" female x 1/4" male	26920
Socket Converter	3/8"	3/8" female x 1/2" male	26921
Socket Converter	1/2"	1/2" female x 3/8" male	28920
Socket Converter	1/2"	1/2" female x 3/4" male	28921
Bit Holder	1/4"	1/4" bits	24900
Bit Holder	3/8"	8 mm bits	26900
Bit Holder	1/2"	10 mm bits	28910

Item	Drive	pcs	Art. No.
Adapter Set	1/4+3/8+1/2+3/4"	8	38206

Adapter Set, 6 pcs.

Content	Drive	Adapter for	Art. No.
Socket Converter	1/4"	1/4" female x 3/8" male	20601
Socket Converter	3/8"	3/8" female x 1/4" male	20602
Socket Converter	3/8"	3/8" female x 1/2" male	20604
Socket Converter	1/2"	1/2" female x 3/8" male	20603
Socket Converter	1/2"	1/2" female x 3/4" male	20605
Socket Converter	3/4"	3/4" female x 1/2" male	20606

Item	Drive	pcs	Art. No.
Adapter Set	1/4+3/8+1/2+3/4"	6	206-6

Adapter Set, 5 pcs.

Item	Drive	pcs	Art. No.
Adapter Set	1/4+3/8+1/2+3/4"	5	70206

Socket Adapters

Item	Drive	Adapter for	Art. No.
Socket Converter	1/4"	1/4" female x 3/8" male	20601
Socket Converter	3/8"	3/8" female x 1/4" male	20602
Socket Converter	1/2"	1/2" female x 3/8" male	20603
Socket Converter	3/8"	3/8" female x 1/2" male	20604
Socket Converter	1/2"	1/2" female x 3/4" male	20605
Socket Converter	3/4"	3/4" female x 1/2" male	20606

Socket Adapters, xcess performance

Item	Drive	Adapter for	Art. No.
Socket Converter	1/4"	1/4" female x 3/8" male	24920
Socket Converter	3/8"	3/8" female x 1/4" male	26920
Socket Converter	3/8"	3/8" female x 1/2" male	26921
Socket Converter	1/2"	1/2" female x 3/8" male	28920
Socket Converter	1/2"	1/2" female x 3/4" male	28921

Adapter Set, 6 pcs.

Content	Drive	Adapter for	Art. No.
Impact Socket Converter	1/4"	1/4" female x 3/8" male	20601K
Impact Socket Converter	3/8"	3/8" female x 1/4" male	20602K
Impact Socket Converter	3/8"	3/8" female x 1/2" male	20604K
Impact Socket Converter	1/2"	1/2" female x 3/8" male	20603K
Impact Socket Converter	1/2"	1/2" female x 3/4" male	20605K
Impact Socket Converter	3/4"	3/4" female x 1/2" male	20610

Item	Drive	pcs	Art. No.
Adapter Set	1/4+3/8+1/2+3/4"	6	206-6KR

Adapter Set, 3 pcs.

Content	Drive	Adapter for	Art. No.
Impact Socket Converter	3/8"	3/8" female x 1/4" male	20602K
Impact Socket Converter	1/2"	1/2" female x 3/8" male	20603K
Impact Socket Converter	3/4"	3/4" female x 1/2" male	20610

Item	Drive	pcs	Art. No.
Adapter Set	3/8+1/2+3/4"	3	20600

Impact Socket Converters

20611

20610

Item	Drive	Adapter for	Art. No.
Impact Socket Converter	1/4"	1/4" female x 3/8" male	20601K
Impact Socket Converter	3/8"	3/8" female x 1/4" male	20602K
Impact Socket Converter	3/8"	3/8" female x 1/2" male	20604K
Impact Socket Converter	1/2"	1/2" female x 1/4" male	20609
Impact Socket Converter	1/2"	1/2" female x 3/8" male	20603K
Impact Socket Converter	1/2"	1/2" female x 3/4" male	20605K
Impact Socket Converter	3/4"	3/4" female x 1/2" male	20610
Impact Socket Converter	3/4"	3/4" female x 1" male	20611
Impact Socket Converter	1"	1" female x 3/4" male	20612

Magnetic Adapter Set, 3 pcs.

- with magnet for secure holding of screws
- specially suitable for hard-to-reach areas

Item	Drive	pcs	Art. No.
Magnetic Adapter Set	1/4+3/8+1/2"	3	20703

Impact Swivel Joint Adapter

Item	Drive	Adapter for	Art. No.
Impact Swivel Joint Adapter	1/2"	1/2" female x 1/2" male	21930
Impact Swivel Joint Adapter	3/4"	3/4" female x 3/4" male	21931

Impact Swivel Joint Adapters

Item	Drive	Adapter for	Art. No.
Impact Swivel Joint Adapter	1/2"	8 mm bits	21927
Impact Swivel Joint Adapter	1/2"	10 mm bits	21928

Bit Holders

Item	Drive	Adapter for	Art. No.
Bit Holder	1/4"	1/4" bits	20624
Bit Holder	3/8"	8 mm bits	20623
Bit Holder	3/8"	10 mm bits	20622
Bit Holder	1/2"	8 mm bits	20621
Bit Holder	1/2"	10 mm bits	20620
Bit Holder	1/2"	14 mm bits	20625

Bit Adapters, xcess performance

Item	Drive	Adapter for	Art. No.
Bit Holder	1/4"	1/4" bits	24900
Bit Holder	3/8"	8 mm bits	26900
Bit Holder	1/2"	8 mm bits	28900
Bit Holder	1/2"	10 mm bits	28910

Adapter Set for SDS Power Drills, 3 pcs., 1/4+3/8+1/2"

- for power drills and cordless screwdrivers
- for using standard sockets with power drills
- content:
  1 adapter SDS x 1/4" square
  1 adapter SDS x 3/8" square
  1 adapter SDS x 1/2" square

Item	Drive	Adapter for	pcs	Art. No.
Adapter Set For SDS Power Drills	SDS	1/4+3/8+1/2" sq. drive	3	4702

Adapter Set for Power Drills, 3 pcs., 1/4+3/8+1/2"

- for power drills and cordless screwdrivers
- for using standard sockets with power drills
- content:
  1 adapter 1/4" hexagon x 1/4" square
  1 adapter 1/4" hexagon x 3/8" square
  1 adapter 1/4" hexagon x 1/2" square

Item	Drive	Adapter for	pcs	Art. No.
Adapter Set for Power Drills	1/4" hex	1/4+3/8+1/2" sq. drive	3	4703

Sockets and Socket Bits

2

Hexagon Sockets

hexagon		10 mm	21688-10	12 mm	22088-12	3/4", standard	
1/4", standard		11 mm	21688-11	13 mm	22088-13	19 mm	22600-19
4 mm	21288-4	12 mm	21688-12	14 mm	22088-14	21 mm	22600-21
4.5 mm	21288-4.5	13 mm	21688-13	15 mm	22088-15	22 mm	22600-22
5 mm	21288-5	14 mm	21688-14	16 mm	22088-16	23 mm	22600-23
5.5 mm	21288-5.5	15 mm	21688-15	17 mm	22088-17	24 mm	22600-24
6 mm	21288-6	16 mm	21688-16	18 mm	22088-18	26 mm	22600-26
7 mm	21288-7	17 mm	21688-17	19 mm	22088-19	27 mm	22600-27
8 mm	21288-8	18 mm	21688-18	20 mm	22088-20	28 mm	22600-28
9 mm	21288-9	19 mm	21688-19	21 mm	22088-21	29 mm	22600-29
10 mm	21288-10	20 mm	21688-20	22 mm	22088-22	30 mm	22600-30
11 mm	21288-11	21 mm	21688-21	23 mm	22088-23	32 mm	22600-32
12 mm	21288-12	22 mm	21688-22	24 mm	22088-24	33 mm	22600-33
13 mm	21288-13	24 mm	21688-24	27 mm	22088-27	34 mm	22600-34
14 mm	21288-14	3/8", deep		30 mm	22088-30	35 mm	22600-35
1/4", deep		8 mm	21699-8	32 mm	22088-32	36 mm	22600-36
4 mm	21299-4	9 mm	21699-9	35 mm	22088-35	38 mm	22600-38
5 mm	21299-5	10 mm	21699-10	36 mm	22088-36	41 mm	22600-41
5.5 mm	21299-5.5	11 mm	21699-11	1/2", deep		46 mm	22600-46
6 mm	21299-6	12 mm	21699-12	10 mm	22099-10	50 mm	22600-50
7 mm	21299-7	13 mm	21699-13	11 mm	22099-11	1", standard	
8 mm	21299-8	14 mm	21699-14	12 mm	22099-12	36 mm	22800-36
9 mm	21299-9	15 mm	21699-15	13 mm	22099-13	38 mm	22800-38
10 mm	21299-10	16 mm	21699-16	14 mm	22099-14	41 mm	22800-41
11 mm	21299-11	17 mm	21699-17	15 mm	22099-15	46 mm	22800-46
12 mm	21299-12	18 mm	21699-18	16 mm	22099-16	50 mm	22800-50
13 mm	21299-13	19 mm	21699-19	17 mm	22099-17	55 mm	22800-55
3/8", standard		1/2", standard		18 mm	22099-18	60 mm	22800-60
6 mm	21688-6	8 mm	22088-8	19 mm	22099-19	65 mm	22800-65
7 mm	21688-7	9 mm	22088-9	21 mm	22099-21	70 mm	22800-70
8 mm	21688-8	10 mm	22088-10	22 mm	22099-22	75 mm	22800-75
9 mm	21688-9	11 mm	22088-11	24 mm	22099-24	80 mm	22800-80

Hexagon Sockets, xcess performance

hexagon		3/8", standard		18 mm	25077-18	19 mm	27077-19
1/4", standard		8 mm	25000-8	19 mm	25077-19	22 mm	27077-22
4 mm	23000-4	9 mm	25000-9	1/2", standard		24 mm	27077-24
4.5 mm	23000-4.5	10 mm	25000-10	10 mm	27000-10	3/4", standard	
5 mm	23000-5	11 mm	25000-11	11 mm	27000-11	19 mm	29000-19
5.5 mm	23000-5.5	12 mm	25000-12	12 mm	27000-12	21 mm	29000-21
6 mm	23000-6	13 mm	25000-13	13 mm	27000-13	22 mm	29000-22
7 mm	23000-7	14 mm	25000-14	14 mm	27000-14	23 mm	29000-23
8 mm	23000-8	15 mm	25000-15	15 mm	27000-15	24 mm	29000-24
9 mm	23000-9	16 mm	25000-16	16 mm	27000-16	26 mm	29000-26
10 mm	23000-10	17 mm	25000-17	17 mm	27000-17	27 mm	29000-27
11 mm	23000-11	18 mm	25000-18	18 mm	27000-18	28 mm	29000-28
12 mm	23000-12	19 mm	25000-19	19 mm	27000-19	29 mm	29000-29
13 mm	23000-13	20 mm	25000-20	20 mm	27000-20	30 mm	29000-30
14 mm	23000-14	21 mm	25000-21	21 mm	27000-21	32 mm	29000-32
1/4", deep		22 mm	25000-22	22 mm	27000-22	33 mm	29000-33
4 mm	23077-4	24 mm	25000-24	24 mm	27000-24	34 mm	29000-34
5 mm	23077-5	3/8", deep		27 mm	27000-27	35 mm	29000-35
5.5 mm	23077-5.5	8 mm	25077-8	30 mm	27000-30	36 mm	29000-36
6 mm	23077-6	9 mm	25077-9	32 mm	27000-32	38 mm	29000-38
7 mm	23077-7	10 mm	25077-10	1/2", deep		40 mm	29000-40
8 mm	23077-8	11 mm	25077-11	10 mm	27077-10	41 mm	29000-41
9 mm	23077-9	12 mm	25077-12	13 mm	27077-13	46 mm	29000-46
10 mm	23077-10	13 mm	25077-13	14 mm	27077-14	50 mm	29000-50
11 mm	23077-11	14 mm	25077-14	15 mm	27077-15	55 mm	29000-55
12 mm	23077-12	15 mm	25077-15	16 mm	27077-16	60 mm	29000-60
13 mm	23077-13	16 mm	25077-16	17 mm	27077-17		
14 mm	23077-14	17 mm	25077-17	18 mm	27077-18		

Hexagon Inch Sockets

Hexagon inch		1/2"		3/8"		1.1/8"	
1/4", standard		1/4", deep		7/16"	12Z-7-16	1.1/4"	12Z1-1-4
5/32"	14Z-5-32	5/32"	24Z-5-32	1/2"	12Z-1-2	1/2", deep	
3/16"	14Z-3-16	3/16"	24Z-3-16	9/16"	12Z-9-16	1/2"	22Z-1-2
7/32"	14Z-7-32	7/32"	24Z-7-32	19/32"	12Z-19-32	9/16"	22Z-9-16
1/4"	14Z-1-4	1/4"	24Z-1-4	5/8"	12Z-5-8	5/8"	22Z-5-8
9/32"	14Z-9-32	9/32"	24Z-9-32	11/16"	12Z-11-16	11/16"	22Z-11-16
5/16"	14Z-5-16	5/16"	24Z-5-16	3/4"	12Z-3-4	3/4"	22Z-3-4
11/32"	14Z-11-32	11/32"	24Z-11-32	13/16"	12Z-13-16	13/16"	22Z-13-16
3/8"	14Z-3-8	3/8"	24Z-3-8	7/8"	12Z-7-8	7/8"	22Z-7-8
13/32"	14Z-13-32	7/16"	24Z-7-16	15/16"	12Z-15-16	15/16"	22Z-15-16
7/16"	14Z-7-16	1/2"	24Z-1-2	1"	12Z1-1		
15/32"	14Z-15-32	1/2", standard		1.1/16"	12Z1-1-16		

Bi-Hexagon Sockets

bi-hexagon		16 mm		32 mm		27 mm	
1/2", standard		17 mm	22044-17	34 mm	22044-34	28 mm	22644-28
8 mm	22044-8	18 mm	22044-18	36 mm	22044-36	30 mm	22644-30
9 mm	22044-9	19 mm	22044-19	3/4", standard		32 mm	22644-32
10 mm	22044-10	20 mm	22044-20	19 mm	22644-19	34 mm	22644-34
11 mm	22044-11	21 mm	22044-21	21 mm	22644-21	36 mm	22644-36
12 mm	22044-12	22 mm	22044-22	22 mm	22644-22	38 mm	22644-38
13 mm	22044-13	24 mm	22044-24	23 mm	22644-23	41 mm	22644-41
14 mm	22044-14	27 mm	22044-27	24 mm	22644-24	46 mm	22644-46
15 mm	22044-15	30 mm	22044-30	26 mm	22644-26	50 mm	22644-50

Bi-Hexagon Sockets, xcess performance

bi-hexagon		24 mm		32 mm		40 mm	
3/4", standard		26 mm	29044-26	33 mm	29044-33	41 mm	29044-41
19 mm	29044-19	27 mm	29044-27	34 mm	29044-34	46 mm	29044-46
21 mm	29044-21	28 mm	29044-28	35 mm	29044-35	50 mm	29044-50
22 mm	29044-22	29 mm	29044-29	36 mm	29044-36	55 mm	29044-55
23 mm	29044-23	30 mm	29044-30	38 mm	29044-38	60 mm	29044-60

TX-Star Sockets

TX-Star E		E5		1/2", standard		E10	
1/4", standard		E6	22420-E6	E10	22440-E10	E11	22460-E11
E4	22400-E4	E7	22420-E7	E11	22440-E11	E12	22460-E12
E5	22400-E5	E8	22420-E8	E12	22440-E12	E14	22460-E14
E6	22400-E6	E10	22420-E10	E14	22440-E14	E16	22460-E16
E7	22400-E7	E11	22420-E11	E16	22440-E16	E18	22460-E18
E8	22400-E8	E12	22420-E12	E18	22440-E18	E20	22460-E20
E10	22400-E10	E14	22420-E14	E20	22440-E20	E22	22460-E22
E11	22400-E11	E16	22420-E16	E22	22440-E22	E24	22460-E24
3/8", standard		E18	22420-E18	E24	22440-E24		
E4	22420-E4	E20	22420-E20	1/2", deep			

TX-Star Sockets, xcess performance

TX-Star E		E8		E12		E20	
1/4", standard		E10	23011-10	E14	25011-14	E22	27011-22
E4	23011-4	E11	23011-11	E16	25011-16	E24	27011-24
E5	23011-5	3/8", standard		E18	25011-18		
E6	23011-6	E10	25011-10	E20	25011-20		
E7	23011-7	E11	25011-11	1/2", standard			

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Varioplus Sockets

Varioplus		13 mm	21255-13	9 mm	22055-9	22 mm	22055-22
1/4", standard		14 mm	21255-14	10 mm	22055-10	23 mm	22055-23
4 mm	21255-4	1/4", deep		11 mm	22055-11	24 mm	22055-24
4.5 mm	21255-4.5	6 mm	21266-6	12 mm	22055-12	27 mm	22055-27
5 mm	21255-5	7 mm	21266-7	13 mm	22055-13	30 mm	22055-30
5.5 mm	21255-5.5	8 mm	21266-8	14 mm	22055-14	32 mm	22055-32
6 mm	21255-6	9 mm	21266-9	15 mm	22055-15	1/2", deep	
7 mm	21255-7	10 mm	21266-10	16 mm	22055-16	14 mm	22066-14
8 mm	21255-8	11 mm	21266-11	17 mm	22055-17	15 mm	22066-15
9 mm	21255-9	12 mm	21266-12	18 mm	22055-18	17 mm	22066-17
10 mm	21255-10	13 mm	21266-13	19 mm	22055-19	19 mm	22066-19
11 mm	21255-11	1/2", standard		20 mm	22055-20	22 mm	22066-22
12 mm	21255-12	8 mm	22055-8	21 mm	22055-21		

TX-Star Socket Bits

TX-Star T		1/2", 55 mm long		T25	12103-25	T45	12143-45
1/4", 37 mm long		T20	12033-20	T27	12103-27	T50	12143-50
T7	14033-7	T25	12033-25	T30	12103-30	T55	12143-55
T8	14033-8	T27	12033-27	T40	12103-40	T60	12143-60
T9	14033-9	T30	12033-30	T45	12103-45	T70	12143-70
T10	14033-10	T40	12033-40	T50	12103-50	1/2", 200 mm long	
T15	14033-15	T45	12033-45	T55	12103-55	T40	12203-40
T20	14033-20	T50	12033-50	T60	12103-60	T45	12203-45
T25	14033-25	T55	12033-55	T70	12103-70	T50	12203-50
T27	14033-27	T60	12033-60	1/2", 120 mm long		T55	12203-55
T30	14033-30	T70	12033-70	T70	12123-70	T60	12203-60
T40	14033-40	1/2", 100 mm long		1/2", 140 mm long		T70	12203-70
T45	14033-45	T20	12103-20	T40	12143-40		

TX-Star Socket Bits, xcess performance

TX-Star T		T30	24033-30	T45	28033-45	T40	28103-40
1/4", 37 mm long		T40	24033-40	T50	28033-50	T45	28103-45
T8	24033-8	T45	24033-45	T55	28033-55	T50	28103-50
T9	24033-9	1/2", 55 mm long		T60	28033-60	T55	28103-55
T10	24033-10	T20	28033-20	T70	28033-70	T60	28103-60
T15	24033-15	T25	28033-25	1/2", 100 mm long		T70	28103-70
T20	24033-20	T27	28033-27	T25	28103-25		
T25	24033-25	T30	28033-30	T27	28103-27		
T27	24033-27	T40	28033-40	T30	28103-30		

TX-Star Tamperproof Socket Bits

TX-Star tamperproof		T30	14044-30	T55	12044-55	T55	12104-55
1/4", 37 mm long		T40	14044-40	T60	12044-60	T70	12104-70
T7	14044-7	1/2", 55 mm long		T70	12044-70	T80	12104-80
T8	14044-8	T20	12044-20	1/2", 100 mm long		T90	12104-90
T9	14044-9	T25	12044-25	T20	12104-20	T100	12104-100
T10	14044-10	T27	12044-27	T25	12104-25	1/2", 300 mm long	
T15	14044-15	T30	12044-30	T30	12104-30	T30	12304-30
T20	14044-20	T40	12044-40	T40	12104-40		
T25	14044-25	T45	12044-45	T45	12104-45		
T27	14044-27	T50	12044-50	T50	12104-50		

Hexagon Socket Bits

Hexagon		12 mm	12022-12	12 mm	12102-12	7 mm	12202-7
1/4", 37 mm long		14 mm	12022-14	13 mm	12102-13	8 mm	12202-8
3 mm	14022-3	16 mm	12022-16	14 mm	12102-14	10 mm	12202-10
4 mm	14022-4	17 mm	12022-17	1/2", 140 mm long		12 mm	12202-12
5 mm	14022-5	18 mm	12022-18	5 mm	12142-5	1/2", 230 mm long	
6 mm	14022-6	19 mm	12022-19	6 mm	12142-6	7 mm	12232-7
7 mm	14022-7	22 mm	12022-22	7 mm	12142-7	Ball-Head	
8 mm	14022-8	24 mm	12022-24	8 mm	12142-8	1/2", 140 mm long	
1/2", 55 mm long		1/2", 100 mm long		10 mm	12142-10	5 mm	5055-5
4 mm	12022-4	5 mm	12102-5	11 mm	12142-11	6 mm	5055-6
5 mm	12022-5	6 mm	12102-6	12 mm	12142-12	7 mm	5055-7
6 mm	12022-6	7 mm	12102-7	13 mm	12142-13	8 mm	5055-8
7 mm	12022-7	8 mm	12102-8	14 mm	12142-14	10 mm	5055-10
8 mm	12022-8	9 mm	12102-9	1/2", 200 mm long		12 mm	5055-12
9 mm	12022-9	10 mm	12102-10	5 mm	12202-5		
10 mm	12022-10	11 mm	12102-11	6 mm	12202-6		

Hexagon Socket Bits, xcess performance

Hexagon		1/2", 55 mm long		14 mm	28022-14	10 mm	28102-10
1/4", 37 mm long		5 mm	28022-5	17 mm	28022-17	11 mm	28102-11
3 mm	24022-3	6 mm	28022-6	19 mm	28022-19	12 mm	28102-12
4 mm	24022-4	7 mm	28022-7	1/2", 100 mm long		13 mm	28102-13
5 mm	24022-5	8 mm	28022-8	6 mm	28102-6	14 mm	28102-14
6 mm	24022-6	9 mm	28022-9	7 mm	28102-7		
7 mm	24022-7	10 mm	28022-10	8 mm	28102-8		
8 mm	24022-8	12 mm	28022-12	9 mm	28102-9		

Ribe-Profile Socket Bits

Spline (for Ribe)		M14	12055-14	M14	12105-14	M14	12145-14
1/2", 55 mm long		1/2", 100 mm long		1/2", 120 mm long		1/2", 200 mm long	
M5	12055-5	M5	12105-5	M10.3	12125-10.3	M8	12205-8
M6	12055-6	M6	12105-6	1/2", 140 mm long		M9	12205-9
M7	12055-7	M7	12105-7	M8	12145-8	M10	12205-10
M8	12055-8	M8	12105-8	M9	12145-9	M10.3	12205-10.3
M9	12055-9	M9	12105-9	M10	12145-10	M11	12205-11
M10	12055-10	M10	12105-10	M10.3	12145-10.3	M12	12205-12
M11	12055-11	M11	12105-11	M11	12145-11	M13	12205-13
M12	12055-12	M12	12105-12	M12	12145-12	M14	12205-14
M13	12055-13	M13	12105-13	M13	12145-13		

Spline Socket Bits

Spline		M14	12011-14	M10	12101-10	M10	12141-10
1/2", 55 mm long		M16	12011-16	M12	12101-12	M12	12141-12
M5	12011-5	M18	12011-18	M14	12101-14	M14	12141-14
M6	12011-6	1/2", 100 mm long		M16	12101-16	1/2", 200 mm long	
M7	12011-7	M5	12101-5	1/2", 140 mm long		M8	12201-8
M8	12011-8	M6	12101-6	M5	12141-5	M10	12201-10
M9	12011-9	M7	12101-7	M6	12141-6	M12	12201-12
M10	12011-10	M8	12101-8	M8	12141-8	M14	12201-14
M12	12011-12	M9	12101-9	M9	12141-9		

Spline Socket Bits, xcess performance

Spline		M9	28011-9	1/2", 100 mm long		M10	28101-10
1/2", 55 mm long		M10	28011-10	M5	28101-5	M12	28101-12
M5	28011-5	M12	28011-12	M6	28101-6	M14	28101-14
M6	28011-6	M14	28011-14	M8	28101-8	M16	28101-16
M8	28011-8	M16	28011-16	M9	28101-9		

Socket Bit, 1/2", spline tamperproof M16x55 mm

Item	Profile	Size	Drive	Length	Art. No.
Socket Bit	Spline tamperproof	M16	1/2"	55 mm	2357

Socket Bits Plain Slot

Item	Profile	Size	Drive	Length	Art. No.
Socket Bit	Plain Slot	4 mm	1/4"	37 mm	14077-4
Socket Bit	Plain Slot	5.5 mm	1/4"	37 mm	14077-5.5
Socket Bit	Plain Slot	6.5 mm	1/4"	37 mm	14077-6.5
Socket Bit	Plain Slot	7 mm	1/4"	37 mm	14077-7

Socket Bits Cross Slot PH

Item	Profile	Size	Drive	Length	Art. No.
Socket Bit	Cross Slot PH	PH1	1/4"	37 mm	14088-1
Socket Bit	Cross Slot PH	PH2	1/4"	37 mm	14088-2

Socket Bits Cross Slot PH, xcess performance

Item	Profile	Size	Drive	Length	Art. No.
Socket Bit	Cross Slot PH	PH1	1/4"	37 mm	24088-1
Socket Bit	Cross Slot PH	PH2	1/4"	37 mm	24088-2

TX-Star Bits

TX-Star T		T10	18033-10	T55	18033-55	T30	18073-30
8 mm bit, 30 mm		T15	18033-15	T60	18033-60	T40	18073-40
T40	17033-40	T20	18033-20	T70	18033-70	T45	18073-45
T45	17033-45	T25	18033-25	10 mm bit, 75 mm		T50	18073-50
T50	17033-50	T27	18033-27	T10	18073-10	T55	18073-55
T55	17033-55	T30	18033-30	T15	18073-15	T60	18073-60
T60	17033-60	T40	18033-40	T20	18073-20	T70	18073-70
T70	17033-70	T45	18033-45	T25	18073-25		
10 mm bit, 30 mm		T50	18033-50	T27	18073-27		

TX-Star Tamperproof Bits

TX-Star tamperproof		T55	17044-55	T45	18044-45	T30	18074-30
8 mm bit, 30 mm		T60	17044-60	T50	18044-50	T40	18074-40
T10	17044-10	T70	17044-70	T55	18044-55	T45	18074-45
T15	17044-15	10 mm bit, 30 mm		T60	18044-60	T50	18074-50
T20	17044-20	T10	18044-10	T70	18044-70	T55	18074-55
T25	17044-25	T15	18044-15	10 mm bit, 75 mm		T60	18074-60
T27	17044-27	T20	18044-20	T10	18074-10	T70	18074-70
T30	17044-30	T25	18044-25	T15	18074-15	14 mm bit, 75 mm	
T40	17044-40	T27	18044-27	T20	18074-20	T55	19074-55
T45	17044-45	T30	18044-30	T25	18074-25	T60	19074-60
T50	17044-50	T40	18044-40	T27	18074-27	T70	19074-70

Hexagon Bits

Hexagon		10 mm bit, 30 mm		14 mm	18022-14	10 mm	18072-10
8 mm bit, 30 mm		4 mm	18022-4	10 mm bit, 75 mm		11 mm	18072-11
6 mm	17022-6	5 mm	18022-5	4 mm	18072-4	12 mm	18072-12
7 mm	17022-7	6 mm	18022-6	5 mm	18072-5	13 mm	18072-13
8 mm	17022-8	7 mm	18022-7	6 mm	18072-6	14 mm	18072-14
10 mm	17022-10	8 mm	18022-8	7 mm	18072-7		
12 mm	17022-12	10 mm	18022-10	8 mm	18072-8		
14 mm	17022-14	12 mm	18022-12	9 mm	18072-9		

Oversize Hexagon Bits

Item	Profile	Size	Drive	Length	Art. No.
Bit	Hexagon	5.1 mm	10 mm hex	40 mm	18022-X5
Bit	Hexagon	6.1 mm	10 mm hex	40 mm	18022-X6
Bit	Hexagon	7.1 mm	10 mm hex	40 mm	18022-X7
Bit	Hexagon	8.1 mm	10 mm hex	40 mm	18022-X8

Spline Bits

Spline		M5	18011-5	M14	18011-14	M9	18071-9
8 mm bit, 30 mm		M6	18011-6	10 mm bit, 75 mm		M10	18071-10
M10	17011-10	M8	18011-8	M5	18071-5	M12	18071-12
M12	17011-12	M10	18011-10	M6	18071-6	M14	18071-14
10 mm bit, 30 mm		M12	18011-12	M8	18071-8		

Ribe-Profile Bits

Spline (for Ribe)		M6	18055-6	10 mm bit, 75 mm		M12	18075-12
8 mm bit, 30 mm		M7	18055-7	M5	18075-5	M13	18075-13
M10	17055-10	M8	18055-8	M6	18075-6	M14	18075-14
M11	17055-11	M9	18055-9	M7	18075-7	10 mm bit, 100 mm	
M12	17055-12	M10	18055-10	M8	18075-8	M10.3	18105-10.3
M13	17055-13	M11	18055-11	M9	18075-9		
10 mm bit, 40 mm		M12	18055-12	M10	18075-10		
M5	18055-5	M13	18055-13	M11	18075-11		

Hexagon Impact Sockets

hexagon		9 mm	22099-K9	24 mm	22600-K24	27 mm	22699-K27
1/2", standard		10 mm	22099-K10	26 mm	22600-K26	28 mm	22699-K28
8 mm	22000-K8	11 mm	22099-K11	27 mm	22600-K27	30 mm	22699-K30
9 mm	22000-K9	12 mm	22099-K12	28 mm	22600-K28	32 mm	22699-K32
10 mm	22000-K10	13 mm	22099-K13	29 mm	22600-K29	33 mm	22699-K33
11 mm	22000-K11	14 mm	22099-K14	30 mm	22600-K30	34 mm	22699-K34
12 mm	22000-K12	15 mm	22099-K15	32 mm	22600-K32	36 mm	22699-K36
13 mm	22000-K13	16 mm	22099-K16	33 mm	22600-K33	38 mm	22699-K38
14 mm	22000-K14	17 mm	22099-K17	34 mm	22600-K34	40 mm	22699-K40
15 mm	22000-K15	18 mm	22099-K18	35 mm	22600-K35	41 mm	22699-K41
16 mm	22000-K16	19 mm	22099-K19	36 mm	22600-K36	46 mm	22699-k46
17 mm	22000-K17	20 mm	22099-K20	38 mm	22600-K38	50 mm	22699-K50
18 mm	22000-K18	21 mm	22099-K21	40 mm	22600-K40	1", standard	
19 mm	22000-K19	22 mm	22099-K22	41 mm	22600-K41	27 mm	22800-K27
20 mm	22000-K20	24 mm	22099-K24	46 mm	22600-K46	30 mm	22800-K30
21 mm	22000-K21	27 mm	22099-K27	50 mm	22600-K50	32 mm	22800-K32
22 mm	22000-K22	30 mm	22099-K30	55 mm	22600-K55	36 mm	22800-K36
24 mm	22000-K24	32 mm	22099-K32	60 mm	22600-K60	38 mm	22800-K38
27 mm	22000-K27	3/4", standard		3/4", deep		41 mm	22800-K41
30 mm	22000-K30	19 mm	22600-K19	19 mm	22699-K19	46 mm	22800-K46
32 mm	22000-K32	21 mm	22600-K21	21 mm	22699-K21	50 mm	22800-K50
1/2", deep		22 mm	22600-K22	22 mm	22699-K22		
8 mm	22099-K8	23 mm	22600-K23	24 mm	22699-K24		

Ball Joint Screw Socket, 1/2", CrMo, bi-hex 41 mm, BMW

- for disassembly/assembly of the lower bolted suspension joints on the front axle
- in BMW 5-series (F07, F10, F11), 6-series (F06, F12, F13) and 7-series (F01, F02, F03, F04)
- e.g. for suspension joint OEM 31126777753

Item	Profile	Size	Drive	Length	Art. No.
Ball Joint Screw Socket	bi-hexagon	41 mm	1/2"	85 mm	4803-41A

Drive Shaft Sockets, deep, CrMo

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.

Item	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	24 mm	1/2"	85 mm	4803-24
Drive Shaft Socket	bi-hexagon	27 mm	1/2"	85 mm	4803-27
Drive Shaft Socket	bi-hexagon	30 mm	1/2"	85 mm	4803-30
Drive Shaft Socket	bi-hexagon	32 mm	1/2"	85 mm	4803-32
Drive Shaft Socket	bi-hexagon	33 mm	1/2"	85 mm	4803-33
Drive Shaft Socket	bi-hexagon	34 mm	1/2"	85 mm	4803-34
Drive Shaft Socket	bi-hexagon	35 mm	1/2"	85 mm	4803-35
Drive Shaft Socket	bi-hexagon	36 mm	1/2"	85 mm	4803-36
Drive Shaft Socket	hexagon	41 mm	1/2"	85 mm	4803-41
Drive Shaft Socket	bi-hexagon	46 mm	1/2"	85 mm	4803-46

Spline Impact Socket Bits

12011-K12

12071-K12

Spline		M14	12011-K14	M9	12071-K9
1/2", 40 mm long		M16	12011-K16	M10	12071-K10
M5	12011-K5	M18	12011-K18	M12	12071-K12
M6	12011-K6	1/2", 78 mm long		M14	12071-K14
M8	12011-K8	M4	12071-K4	M16	12071-K16
M9	12011-K9	M5	12071-K5	M18	12071-K18
M10	12011-K10	M6	12071-K6		
M12	12011-K12	M8	12071-K8		

Hexagon Impact Socket Bits

12022-K10

12072-K10

Hexagon		4 mm	12072-K4	19 mm	15022-K19
1/2", 40 mm long		5 mm	12072-K5	21 mm	15022-K21
4 mm	12022-K4	6 mm	12072-K6	22 mm	15022-K22
5 mm	12022-K5	7 mm	12072-K7	24 mm	15022-K24
6 mm	12022-K6	8 mm	12072-K8	3/4", 105 mm lang	
7 mm	12022-K7	10 mm	12072-K10	14 mm	15102-K14
8 mm	12022-K8	12 mm	12072-K12	17 mm	15102-K17
10 mm	12022-K10	14 mm	12072-K14	19 mm	15102-K19
12 mm	12022-K12	17 mm	12072-K17	21 mm	15102-K21
14 mm	12022-K14	19 mm	12072-K19	22 mm	15102-K22
17 mm	12022-K17	3/4", 60 mm long		24 mm	15102-K24
19 mm	12022-K19	14 mm	15022-K14		
1/2", 78 mm long		17 mm	15022-K17		

Impact Socket Bits, for motorcycle axles

- required for axle disassembly
- manufactured from one solid piece, extremely robust quality

Item	Profile	Size	Drive	Length	Art. No.
Impact Socket Bit	Hexagon	22 mm	1/2"	53 mm	5105
Impact Socket Bit	Hexagon	24 mm	1/2"	53 mm	5106

TX-Star Impact Socket Bits

TX-Star T		T20	12073-K20	3/4", 60 mm long	
1/2", 40 mm long		T25	12073-K25	T60	15033-K60
T20	12033-K20	T27	12073-K27	T70	15033-K70
T25	12033-K25	T30	12073-K30	T80	15033-K80
T27	12033-K27	T40	12073-K40	T90	15033-K90
T30	12033-K30	T45	12073-K45	T100	15033-K100
T40	12033-K40	T50	12073-K50	3/4", 105 mm lang	
T45	12033-K45	T55	12073-K55	T60	15103-K60
T50	12033-K50	T60	12073-K60	T70	15103-K70
T55	12033-K55	T70	12073-K70	T80	15103-K80
T60	12033-K60	T80	12073-K80	T90	15103-K90
T70	12033-K70	T90	12073-K90	T10	15103-K100
1/2", 78 mm long		T100	12073-K100		

12033-K55

12073-K55

Ribe-Profile Impact Socket Bits

Spline (for Ribe)		M7	12075-K7	M12	12075-K12
1/2", 78 mm long		M8	12075-K8	M13	12075-K13
M5	12075-K5	M9	12075-K9	M14	12075-K14
M6	12075-K6	M10	12075-K10		

Multi Socket

- multi-profile, universally suitable for hexagon nuts and bolts

Item	Profile	Size	Drive	Art. No.
Multi Socket	hexagon	8-21 mm, 5/16-13/16"	3/8"	21650

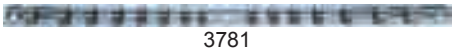
Socket Rail, 3 pcs.

- for 15 sockets, metal

Content	Drive	Length	Art. No.
Socket Rail	1/4"	410 mm	3780
Socket Rail	3/8"	410 mm	3781
Socket Rail	1/2"	410 mm	3782

Item	Drive	pcs	Art. No.
Socket Rail Set	1/4+3/8+1/2"	3	3783

3780



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3782

Combination Spanners

3

Combination Spanner Set, xcess performance, 25 pcs., 6-32 mm

Content		13 mm	4425-13	23 mm	4425-23
Spanners		14 mm	4425-14	24 mm	4425-24
Combination Spanner		15 mm	4425-15	25 mm	4425-25
6 mm	4425-6	16 mm	4425-16	26 mm	4425-26
7 mm	4425-7	17 mm	4425-17	27 mm	4425-27
8 mm	4425-8	18 mm	4425-18	28 mm	4425-28
9 mm	4425-9	19 mm	4425-19	30 mm	4425-30
10 mm	4425-10	20 mm	4425-20	32 mm	4425-32
11 mm	4425-11	21 mm	4425-21		
12 mm	4425-12	22 mm	4425-22		

Item	Range	pcs	Art. No.
Combination Spanner Set	6-32 mm	25	4425

Combination Spanner Set, xcess performance, 17 pcs., 6-24 mm

Content		10 mm	4425-10	17 mm	4425-17
Spanners		11 mm	4425-11	18 mm	4425-18
Combination Spanner		12 mm	4425-12	19 mm	4425-19
6 mm	4425-6	13 mm	4425-13	21 mm	4425-21
7 mm	4425-7	14 mm	4425-14	22 mm	4425-22
8 mm	4425-8	15 mm	4425-15	24 mm	4425-24
9 mm	4425-9	16 mm	4425-16		

Item	Range	pcs	Art. No.
Combination Spanner Set	6-24 mm	17	4427

Combination Spanners, xcess performance, matt finish

Spanners		13 mm	4425-13	22 mm	4425-22
Combination Spanner		14 mm	4425-14	23 mm	4425-23
6 mm	4425-6	15 mm	4425-15	24 mm	4425-24
7 mm	4425-7	16 mm	4425-16	25 mm	4425-25
8 mm	4425-8	17 mm	4425-17	26 mm	4425-26
9 mm	4425-9	18 mm	4425-18	27 mm	4425-27
10 mm	4425-10	19 mm	4425-19	28 mm	4425-28
11 mm	4425-11	20 mm	4425-20	30 mm	4425-30
12 mm	4425-12	21 mm	4425-21	32 mm	4425-32

Combination Spanner Set, xcess performance, 12 pcs., Varioplus 8-19 mm

Content		11 mm	*4423-11*	16 mm	*4423-16*
Spanners		12 mm	*4423-12*	17 mm	*4423-17*
8 mm	*4423-8*	13 mm	*4423-13*	18 mm	*4423-18*
9 mm	*4423-9*	14 mm	*4423-14*	19 mm	*4423-19*
10 mm	*4423-10*	15 mm	*4423-15*		

Item	Range	pcs	Art. No.
Combination Spanner Set	8-19 mm	12	4423

Combination Spanner Set, matt finish, 25 pcs.

Content					
Spanners	13 mm	2136-13	23 mm	2136-23	
Combination Spanner	14 mm	2136-14	24 mm	2136-24	
6 mm	2136-6	15 mm	2136-15	25 mm	2136-25
7 mm	2136-7	16 mm	2136-16	26 mm	2136-26
8 mm	2136-8	17 mm	2136-17	27 mm	2136-27
9 mm	2136-9	18 mm	2136-18	28 mm	2136-28
10 mm	2136-10	19 mm	2136-19	30 mm	2136-30
11 mm	2136-11	20 mm	2136-20	32 mm	2136-32
12 mm	2136-12	21 mm	2136-21		
		22 mm	2136-22		

Item	Range	pcs	Art. No.
Combination Spanner Set	6-32 mm	25	2135

Combination Spanner Set, matt finish, 21 pcs.

Content					
Spanners	11 mm	2136-11	19 mm	2136-19	
Combination Spanner	12 mm	2136-12	20 mm	2136-20	
6 mm	2136-6	13 mm	2136-13	21 mm	2136-21
7 mm	2136-7	14 mm	2136-14	22 mm	2136-22
8 mm	2136-8	15 mm	2136-15	24 mm	2136-24
9 mm	2136-9	16 mm	2136-16	27 mm	2136-27
10 mm	2136-10	17 mm	2136-17	30 mm	2136-30
		18 mm	2136-18	32 mm	2136-32

Item	Range	pcs	Art. No.
Combination Spanner Set	6-32 mm	21	2135-21T

Combination Spanner Set, matt finish, 17 pcs.

Content					
Spanners	10 mm	2136-10	17 mm	2136-17	
Combination Spanner	11 mm	2136-11	18 mm	2136-18	
6 mm	2136-6	12 mm	2136-12	19 mm	2136-19
7 mm	2136-7	13 mm	2136-13	21 mm	2136-21
8 mm	2136-8	14 mm	2136-14	22 mm	2136-22
9 mm	2136-9	15 mm	2136-15	24 mm	2136-24
		16 mm	2136-16		

Item	Range	pcs	Art. No.
Combination Spanner Set	6-24 mm	17	2135-17T

Combination Spanners, matt finish

Spanners					
Combination Spanner	13 mm	2136-13	22 mm	2136-22	
6 mm	2136-6	14 mm	2136-14	23 mm	2136-23
7 mm	2136-7	15 mm	2136-15	24 mm	2136-24
8 mm	2136-8	16 mm	2136-16	25 mm	2136-25
9 mm	2136-9	17 mm	2136-17	26 mm	2136-26
10 mm	2136-10	18 mm	2136-18	27 mm	2136-27
11 mm	2136-11	19 mm	2136-19	28 mm	2136-28
12 mm	2136-12	20 mm	2136-20	30 mm	2136-30
		21 mm	2136-21	32 mm	2136-32

Combination Spanner Set, chrome plated, 26 pcs.

Content		9 mm	3525-9	19 mm	3525-19
Combination Spanner		10 mm	3525-10	20 mm	3525-20
chrome plated		11 mm	3525-11	21 mm	3525-21
4 mm	3525-4	12 mm	3525-12	22 mm	3525-22
4.5 mm	3525-45	13 mm	3525-13	24 mm	3525-24
5 mm	3525-5	14 mm	3525-14	27 mm	3525-27
5.5 mm	3525-55	15 mm	3525-15	28 mm	3525-28
6 mm	3525-6	16 mm	3525-16	30 mm	3525-30
7 mm	3525-7	17 mm	3525-17	32 mm	3525-32
8 mm	3525-8	18 mm	3525-18		

Item	Range	pcs	Art. No.
Combination Spanner Set	4-32 mm	26	35-26T

Combination Spanner Set, chrome plated, 25 pcs.

Content		13 mm	3525-13	23 mm	3525-23
Combination Spanner		14 mm	3525-14	24 mm	3525-24
chrome plated		15 mm	3525-15	25 mm	3525-25
6 mm	3525-6	16 mm	3525-16	26 mm	3525-26
7 mm	3525-7	17 mm	3525-17	27 mm	3525-27
8 mm	3525-8	18 mm	3525-18	28 mm	3525-28
9 mm	3525-9	19 mm	3525-19	30 mm	3525-30
10 mm	3525-10	20 mm	3525-20	32 mm	3525-32
11 mm	3525-11	21 mm	3525-21		
12 mm	3525-12	22 mm	3525-22		

Item	Range	pcs	Art. No.
Combination Spanner Set	6-32 mm	25	35-25T

Combination Spanner Set, chrome plated, 17 pcs.

Content		10 mm	3525-10	17 mm	3525-17
Combination Spanner		11 mm	3525-11	18 mm	3525-18
chrome plated		12 mm	3525-12	19 mm	3525-19
6 mm	3525-6	13 mm	3525-13	21 mm	3525-21
7 mm	3525-7	14 mm	3525-14	22 mm	3525-22
8 mm	3525-8	15 mm	3525-15	24 mm	3525-24
9 mm	3525-9	16 mm	3525-16		

Item	Range	pcs	Art. No.
Combination Spanner Set	6-24 mm	17	35-17T

Combination Spanner Set, chrome plated, 14 pcs.

Content		9 mm	3525-9	15 mm	3525-15
Combination Spanner		10 mm	3525-10	16 mm	3525-16
chrome plated		11 mm	3525-11	17 mm	3525-17
6 mm	3525-6	12 mm	3525-12	18 mm	3525-18
7 mm	3525-7	13 mm	3525-13	19 mm	3525-19
8 mm	3525-8	14 mm	3525-14		

Item	Range	pcs	Art. No.
Combination Spanner Set	6-19 mm	14	35-14T

Combination Spanner Set, chrome plated, 12 pcs.

Content					
Combination Spanner		8 mm	3525-8	14 mm	3525-14
chrome plated		10 mm	3525-10	15 mm	3525-15
6 mm	3525-6	11 mm	3525-11	17 mm	3525-17
7 mm	3525-7	12 mm	3525-12	19 mm	3525-19
		13 mm	3525-13	22 mm	3525-22

Item	Range	pcs	Art. No.
Combination Spanner Set	6-22 mm	12	35-12T

Combination Spanner Set, chrome plated, 8 pcs.

Content					
Combination Spanner		8 mm	3525-8	14 mm	3525-14
chrome plated		10 mm	3525-10	17 mm	3525-17
6 mm	3525-6	11 mm	3525-11	19 mm	3525-19
		13 mm	3525-13		

Item	Range	pcs	Art. No.
Combination Spanner Set	6-19 mm	8	35-8T

Combination Spanner Set, display rack, 12 pcs., 8-22 mm

Content					
Combination Spanner		10 mm	3525-10	15 mm	3525-15
chrome plated		11 mm	3525-11	16 mm	3525-16
8 mm	3525-8	12 mm	3525-12	17 mm	3525-17
9 mm	3525-9	13 mm	3525-13	19 mm	3525-19
		14 mm	3525-14	22 mm	3525-22

Item	Range	pcs	Art. No.
Combination Spanner Set	8-22 mm	12	3525-12H

Combination Spanner Set, display rack, 8 pcs., 6-19 mm

Content					
Combination Spanner		8 mm	3525-8	14 mm	3525-14
chrome plated		10 mm	3525-10	17 mm	3525-17
6 mm	3525-6	12 mm	3525-12	19 mm	3525-19
		13 mm	3525-13		

Item	Range	pcs	Art. No.
Combination Spanner Set	6-19 mm	8	3525-8H

Combination Spanners, chrome plated

Combination Spanner							
chrome plated		8 mm	3525-8	16 mm	3525-16	24 mm	3525-24
4 mm	3525-4	9 mm	3525-9	17 mm	3525-17	25 mm	3525-25
4.5 mm	3525-45	10 mm	3525-10	18 mm	3525-18	26 mm	3525-26
5 mm	3525-5	11 mm	3525-11	19 mm	3525-19	27 mm	3525-27
5.5 mm	3525-55	12 mm	3525-12	20 mm	3525-20	28 mm	3525-28
6 mm	3525-6	13 mm	3525-13	21 mm	3525-21	30 mm	3525-30
7 mm	3525-7	14 mm	3525-14	22 mm	3525-22	32 mm	3525-32
		15 mm	3525-15	23 mm	3525-23		

Combination Spanner Set, chrome plated, inch sizes, 16 pcs.

Content					
Combination Spanner		1/2"	35Z-1-2	15/16"	35Z-15-16
chrome plated		9/16"	35Z-9-16	1"	35Z1-1
1/4"	35Z-1-4	5/8"	35Z-5-8	1.1/16"	35Z1-1-16
5/16"	35Z-5-16	11/16"	35Z-11-16	1.1/8"	35Z1-1-8
3/8"	35Z-3-8	3/4"	35Z-3-4	1.1/4"	35Z1-1-4
7/16"	35Z-7-16	13/16"	35Z-13-16		
		7/8"	35Z-7-8		

Item	Range	pcs	Art. No.
Combination Spanner Set	1/4-1.1/4"	16	35-16TZ

Combination Spanner Set, chrome plated, inch sizes, 12 pcs.

Content					
Combination Spanner		3/8"	35Z-3-8	11/16"	35Z-11-16
chrome plated		7/16"	35Z-7-16	3/4"	35Z-3-4
1/4"	35Z-1-4	1/2"	35Z-1-2	13/16"	35Z-13-16
5/16"	35Z-5-16	9/16"	35Z-9-16	7/8"	35Z-7-8
		5/8"	35Z-5-8	15/16"	35Z-15-16

Item	Range	pcs	Art. No.
Combination Spanner Set	1/4-15/16"	12	35-12TZ

Combination Spanner Set, chrome plated, inch sizes, 11 pcs.

Content					
Combination Spanner		1/2"	35Z-1-2	13/16"	35Z-13-16
chrome plated		9/16"	35Z-9-16	7/8"	35Z-7-8
3/8"	35Z-3-8	5/8"	35Z-5-8	15/16"	35Z-15-16
7/16"	35Z-7-16	11/16"	35Z-11-16	1"	35Z1-1
		3/4"	35Z-3-4		

Item	Range	pcs	Art. No.
Combination Spanner Set	3/8-1"	11	35-11TZ

Combination Spanner Set, chrome plated, inch sizes, 7 pcs.

Content					
Combination Spanner		5/16"	35Z-5-16	9/16"	35Z-9-16
chrome plated		3/8"	35Z-3-8	5/8"	35Z-5-8
1/4"	35Z-1-4	7/16"	35Z-7-16		
		1/2"	35Z-1-2		

Item	Range	pcs	Art. No.
Combination Spanner Set	1/4-5/8"	7	35-7TZ

Combination Spanners, chrome plated, inch

Combination Spanner		7/16"	35Z-7-16	3/4"	35Z-3-4	1.1/16"	35Z1-1-16
chrome plated		1/2"	35Z-1-2	13/16"	35Z-13-16	1.1/8"	35Z1-1-8
1/4"	35Z-1-4	9/16"	35Z-9-16	7/8"	35Z-7-8	1.1/4"	35Z1-1-4
5/16"	35Z-5-16	5/8"	35Z-5-8	15/16"	35Z-15-16		
3/8"	35Z-3-8	11/16"	35Z-11-16	1"	35Z1-1		

Combination Spanner Sets, matt finish, stubby, inch sizes, 9 pcs.

Content	Size	Form	Length	Art. No.
Combination Spanner	1/4"	extra short	95 mm	*44Z-1-4*
Combination Spanner	5/16"	extra short	95 mm	*44Z-5-16*
Combination Spanner	3/8"	extra short	97 mm	*44Z-3-8*
Combination Spanner	7/16"	extra short	105 mm	*44Z-7-16*
Combination Spanner	1/2"	extra short	110 mm	*44Z-1-2*
Combination Spanner	9/16"	extra short	118 mm	*44Z-9-16*
Combination Spanner	5/8"	extra short	128 mm	*44Z-5-8*
Combination Spanner	11/16"	extra short	130 mm	*44Z-11-16*
Combination Spanner	3/4"	extra short	143 mm	*44Z-3-4*

Item	Form	Range	pcs	Art. No.
Combination Spanner Set	extra short	1/4-3/4"	9	4409

Combination Spanner Set, xcess performance, 10 pcs., short, 10-19 mm

Content	Size	Form	Length	Art. No.
Combination Spanner	10 mm	extra short	96 mm	*4424-10*
Combination Spanner	11 mm	extra short	100 mm	*4424-11*
Combination Spanner	12 mm	extra short	105 mm	*4424-12*
Combination Spanner	13 mm	extra short	112 mm	*4424-13*
Combination Spanner	14 mm	extra short	116 mm	*4424-14*
Combination Spanner	15 mm	extra short	122 mm	*4424-15*
Combination Spanner	16 mm	extra short	126 mm	*4424-16*
Combination Spanner	17 mm	extra short	132 mm	*4424-17*
Combination Spanner	18 mm	extra short	136 mm	*4424-18*
Combination Spanner	19 mm	extra short	142 mm	*4424-19*

Item	Form	Range	pcs	Art. No.
Combination Spanner Set	extra short	10-19 mm	10	4424

Combination Spanner Sets, matt finish, stubby, 10 pcs.

Content	Size	Form	Length	Art. No.
Combination Spanner	10 mm	extra short	98 mm	4410-10
Combination Spanner	11 mm	extra short	105 mm	*4410-11*
Combination Spanner	12 mm	extra short	108 mm	*4410-12*
Combination Spanner	13 mm	extra short	110 mm	4410-13
Combination Spanner	14 mm	extra short	120 mm	*4410-14*
Combination Spanner	15 mm	extra short	127 mm	*4410-15*
Combination Spanner	16 mm	extra short	127 mm	*4410-16*
Combination Spanner	17 mm	extra short	130 mm	4410-17
Combination Spanner	18 mm	extra short	143 mm	*4410-18*
Combination Spanner	19 mm	extra short	143 mm	4410-19

Item	Form	Range	pcs	Art. No.
Combination Spanner Set	extra short	10-19 mm	10	4410

Combination Spanner Set, matt finish, extra long, 13 pcs.

Content	Size	Form	Length	Art. No.
Combination Spanner	8 mm	extra long	148 mm	*4413-8*
Combination Spanner	9 mm	extra long	158 mm	*4413-9*
Combination Spanner	10 mm	extra long	172 mm	4413-10
Combination Spanner	11 mm	extra long	183 mm	*4413-11*
Combination Spanner	12 mm	extra long	195 mm	*4413-12*
Combination Spanner	13 mm	extra long	207 mm	4413-13
Combination Spanner	14 mm	extra long	218 mm	*4413-14*
Combination Spanner	15 mm	extra long	230 mm	*4413-15*
Combination Spanner	16 mm	extra long	242 mm	*4413-16*
Combination Spanner	17 mm	extra long	255 mm	4413-17
Combination Spanner	18 mm	extra long	265 mm	*4413-18*
Combination Spanner	19 mm	extra long	279 mm	4413-19
Combination Spanner	22 mm	extra long	308 mm	*4413-22*

Item	Form	Range	pcs	Art. No.
Combination Spanner Set	extra long	8-22 mm	13	4413

Combination Spanners, ring side offset, 12 pcs.

Content	Size	Form	Art. No.
Combination Spanner	8 mm	ring side offset	*3612-8*
Combination Spanner	9 mm	ring side offset	*3612-9*
Combination Spanner	10 mm	ring side offset	*3612-10*
Combination Spanner	11 mm	ring side offset	*3612-11*
Combination Spanner	12 mm	ring side offset	*3612-12*
Combination Spanner	13 mm	ring side offset	*3612-13*
Combination Spanner	14 mm	ring side offset	*3612-14*
Combination Spanner	15 mm	ring side offset	*3612-15*
Combination Spanner	16 mm	ring side offset	*3612-16*
Combination Spanner	17 mm	ring side offset	*3612-17*
Combination Spanner	18 mm	ring side offset	*3612-18*
Combination Spanner	19 mm	ring side offset	*3612-19*

Item	Range	pcs	Art. No.
Combination Spanner Set	8-19 mm	12	36-12T

Combination Spanner Set XL, chrome plated, 6 pcs.

Content	Size	Length	Art. No.
Combination Spanner XL	34 mm	445 mm	35EX-34
Combination Spanner XL	36 mm	455 mm	35EX-36
Combination Spanner XL	38 mm	470 mm	35EX-38
Combination Spanner XL	41 mm	500 mm	35EX-41
Combination Spanner XL	46 mm	545 mm	35EX-46
Combination Spanner XL	50 mm	600 mm	35EX-50

Item	Range	pcs	Art. No.
Combination Spanner Set	34-50 mm	6	35-6EX

Mini Combination Spanner Set, 8 pcs., 4-11 mm

Item	Range	pcs	Art. No.
Mini Combination Spanner Set	4-11 mm	8	4411

Ring Spanners

Ring Spanner Set, xcess performance, 12 pcs., 6-32 mm

Content		16x17 mm	*4412-16x17*
Ring Spanners		18x19 mm	*4412-18x19*
satin finish, deep offset		20x22 mm	*4412-20x22*
6x7 mm	*4412-6x7*	21x23 mm	*4412-21x23*
8x9 mm	*4412-8x9*	24x27 mm	*4412-24x27*
10x11 mm	*4412-10x11*	25x28 mm	*4412-25x28*
12x13 mm	*4412-12x13*	30x32 mm	*4412-30x32*
14x15 mm	*4412-14x15*		

Item	Range	pcs	Art. No.
Double Ended Ring Spanner Set	6-32 mm	12	4412

Double Ended Ring Spanner Set, matt finish, deep offset, 10 pcs.

Content		14x15 mm	2140-14x15
Ring Spanners		16x17 mm	2140-16x17
satin finish, deep offset		18x19 mm	2140-18x19
6x7 mm	2140-6x7	20x22 mm	2140-20x22
8x9 mm	2140-8x9	21x23 mm	2140-21x23
10x11 mm	2140-10x11	24x27 mm	2140-24x27
12x13 mm	2140-12x13		

Item	Range	pcs	Art. No.
Double Ended Ring Spanner Set	6-27 mm	10	2140-10T

Double Ended Ring Spanner Set, matt finish, deep offset, 8 pcs.

Content		12x13 mm	2140-12x13
Ring Spanners		14x15 mm	2140-14x15
satin finish, deep offset		16x17 mm	2140-16x17
6x7 mm	2140-6x7	18x19 mm	2140-18x19
8x9 mm	2140-8x9	20x22 mm	2140-20x22
10x11 mm	2140-10x11		

Item	Range	pcs	Art. No.
Double Ended Ring Spanner Set	6-22 mm	8	2140-8T

Double Ended Ring Spanners, matt finish

Ring Spanners		10x11 mm	2140-10x11	18x19 mm	2140-18x19
satin finish, deep offset		12x13 mm	2140-12x13	20x22 mm	2140-20x22
6x7 mm	2140-6x7	14x15 mm	2140-14x15	21x23 mm	2140-21x23
8x9 mm	2140-8x9	16x17 mm	2140-16x17	24x27 mm	2140-24x27

Double Ended Ring Spanner Set, chrome plated, deep offset, 12 pcs.

Content		16x17 mm	1012-16x17
Ring Spanners		18x19 mm	1012-18x19
deep offset		20x22 mm	1012-20x22
6x7 mm	1012-6x7	21x23 mm	1012-21x23
8x9 mm	1012-8x9	24x27 mm	1012-24x27
10x11 mm	1012-10x11	25x28 mm	1012-25x28
12x13 mm	1012-12x13	30x32 mm	1012-30x32
14x15 mm	1012-14x15		

Item	Range	pcs	Art. No.
Double Ended Ring Spanner Set	6-32 mm	12	10-12T

Double Ended Ring Spanner Set, chrome plated, deep offset, 8 pcs.

Content		12x13 mm	1012-12x13
Ring Spanners		14x15 mm	1012-14x15
deep offset		16x17 mm	1012-16x17
6x7 mm	1012-6x7	18x19 mm	1012-18x19
8x9 mm	1012-8x9	20x22 mm	1012-20x22
10x11 mm	1012-10x11		

Item	Range	pcs	Art. No.
Double Ended Ring Spanner Set	6-22 mm	8	10-8T

Double Ended Ring Spanner Set, display rack, 8 pcs., 6-22 mm

Content		8x9 mm	1012-8x9	16x17 mm	1012-16x17
Ring Spanners		10x11 mm	1012-10x11	18x19 mm	1012-18x19
deep offset		12x13 mm	1012-12x13	20x22 mm	1012-20x22
6x7 mm	1012-6x7	14x15 mm	1012-14x15		

Item	Range	pcs	Art. No.
Double Ended Ring Spanner Set	6-22 mm	8	1012-8H

Double Ended Ring Spanners, chrome plated

Ring Spanners		12x13 mm	1012-12x13	21x23 mm	1012-21x23
deep offset		14x15 mm	1012-14x15	24x27 mm	1012-24x27
6x7 mm	1012-6x7	16x17 mm	1012-16x17	25x28 mm	1012-25x28
8x9 mm	1012-8x9	18x19 mm	1012-18x19	30x32 mm	1012-30x32
10x11 mm	1012-10x11	20x22 mm	1012-20x22		

Obstruction Ring Spanners (Half Moon), matt finish, 7 pcs.

Content	Size	Form	Art. No.
Obstruction Ring Spanner (half moon)	6x7 mm	C-shape	*4050-6x7*
Obstruction Ring Spanner (half moon)	8x9 mm	C-shape	*4050-8x9*
Obstruction Ring Spanner (half moon)	10x11 mm	C-shape	*4050-10x11*
Obstruction Ring Spanner (half moon)	12x13 mm	C-shape	*4050-12x13*
Obstruction Ring Spanner (half moon)	14x15 mm	C-shape	*4050-14x15*
Obstruction Ring Spanner (half moon)	16x17 mm	C-shape	*4050-16x17*
Obstruction Ring Spanner (half moon)	18x19 mm	C-shape	*4050-18x19*

Item	Form	Range	pcs	Art. No.
Obstruction Ring Spanners (Half Moon)	C-shape	6-19 mm	7	4404

Obstruction Ring Spanners (Half Moon), matt finish, 5 pcs.

Content	Size	Form	Art. No.
Obstruction Ring Spanner (half moon)	10x11 mm	C-shape	*4050-10x11*
Obstruction Ring Spanner (half moon)	12x13 mm	C-shape	*4050-12x13*
Obstruction Ring Spanner (half moon)	14x15 mm	C-shape	*4050-14x15*
Obstruction Ring Spanner (half moon)	16x17 mm	C-shape	*4050-16x17*
Obstruction Ring Spanner (half moon)	18x19 mm	C-shape	*4050-18x19*

Item	Form	Range	pcs	Art. No.
Obstruction Ring Spanners (Half Moon)	C-shape	10-19 mm	5	40-5

Double Ended Ring Spanner Set, matt finish, s-type, 5 pcs.

Content	Size	Form	Art. No.
Ring Spanner	10x11 mm	S-shape	*4405-10x11*
Ring Spanner	12x13 mm	S-shape	*4405-12x13*
Ring Spanner	14x15 mm	S-shape	*4405-14x15*
Ring Spanner	16x17 mm	S-shape	*4405-16x17*
Ring Spanner	18x19 mm	S-shape	*4405-18x19*

Item	Form	Range	pcs	Art. No.
Double Ended Ring Spanner Set	S-shape	10-19 mm	5	4405

Double Ended Ring Spanners, chrome plated, flat, 8 pcs.

Content	Size	Form	Art. No.
Ring Spanner	6x7 mm	flat	*4408-6x7*
Ring Spanner	8x9 mm	flat	*4408-8x9*
Ring Spanner	10x11 mm	flat	*4408-10x11*
Ring Spanner	12x13 mm	flat	*4408-12x13*
Ring Spanner	14x15 mm	flat	*4408-14x15*
Ring Spanner	16x17 mm	flat	*4408-16x17*
Ring Spanner	18x19 mm	flat	*4408-18x19*
Ring Spanner	20x22 mm	flat	*4408-20x22*

Item	Form	Range	pcs	Art. No.
Double Ended Ring Spanner Set	flat	6-22 mm	8	4408

Double Ended Ring Spanner Set, flat and long, 6 pcs.

Content	Size	Form	Length	Art. No.
Ring Spanner	10x11 mm	flat	290 mm	4406-10x11
Ring Spanner	12x14 mm	flat	330 mm	4406-12x14
Ring Spanner	13x15 mm	flat	370 mm	4406-13x15
Ring Spanner	16x18 mm	flat	390 mm	4406-16x18
Ring Spanner	17x19 mm	flat	410 mm	4406-17x19
Ring Spanner	22x24 mm	flat	430 mm	4406-22x24

Item	Form	Range	pcs	Art. No.
Double Ended Ring Spanner Set	flat	10-24 mm	6	4406

Double Ended Ring Spanners, flat and long

Item	Size	Form	Length	Art. No.
Ring Spanner	10x11 mm	flat	290 mm	4406-10x11
Ring Spanner	12x14 mm	flat	330 mm	4406-12x14
Ring Spanner	13x15 mm	flat	370 mm	4406-13x15
Ring Spanner	16x18 mm	flat	390 mm	4406-16x18
Ring Spanner	17x19 mm	flat	410 mm	4406-17x19
Ring Spanner	22x24 mm	flat	430 mm	4406-22x24
Ring Spanner	24x27 mm	flat	445 mm	4406-27
Ring Spanner	30x32 mm	flat	460 mm	4406-32

Double Ended Ring Spanner Set, flat and long, TX-Star, 6 pcs.

Content	Profile	Size	Form	Length	Art. No.
Ring Spanner	tx-star	E6x7	flat	200 mm	*4407-6x7*
Ring Spanner	tx-star	E8x10	flat	240 mm	*4407-8x10*
Ring Spanner	tx-star	E11x12	flat	280 mm	*4407-11x12*
Ring Spanner	tx-star	E14x16	flat	320 mm	*4407-14x16*
Ring Spanner	tx-star	E18x20	flat	360 mm	*4407-18x20*
Ring Spanner	tx-star	E22x24	flat	400 mm	*4407-22x24*

Item	Form	Range	pcs	Art. No.
Double Ended Ring Spanner Set	flat	E6-24	6	4407

Ring Spanner Set, 6 pcs, TX-Star E6-24

Content	Profile	Size	Length	Art. No.
Ring Spanner	tx-star	E6x8	108 mm	1001-1
Ring Spanner	tx-star	E7x11	125 mm	1001-1A
Ring Spanner	tx-star	E10x12	138 mm	1001-2
Ring Spanner	tx-star	E14x18	178 mm	1001-3
Ring Spanner	tx-star	E16x22	202 mm	1001-3A
Ring Spanner	tx-star	E20x24	221 mm	1001-4

Item	Range	pcs	Art. No.
Double Ended Ring Spanner Set	E6-24	6	4402

Ring Spanner Set, 4 pcs, TX-Star E6-24

Content	Profile	Size	Length	Art. No.
Ring Spanner	tx-star	E6x8	108 mm	1001-1
Ring Spanner	tx-star	E10x12	138 mm	1001-2
Ring Spanner	tx-star	E14x18	178 mm	1001-3
Ring Spanner	tx-star	E20x24	221 mm	1001-4

Item	Range	pcs	Art. No.
Double Ended Ring Spanner Set	E6-24	4	4401

Ring Spanners, chrome plated, TX-Star

Item	Size	Length	Art. No.
Ring Spanner	E6x8	108 mm	1001-1
Ring Spanner	E7x11	125 mm	1001-1A
Ring Spanner	E10x12	138 mm	1001-2
Ring Spanner	E14x18	178 mm	1001-3
Ring Spanner	E16x22	202 mm	1001-3A
Ring Spanner	E20x24	221 mm	1001-4

Open Ended Spanners

Double Ended Open Jaw Spanner Set, matt finish, 8 pcs.

Content		12x13 mm	*2130-12x13*
Open Ended Spanners		14x15 mm	*2130-14x15*
satin finish		16x17 mm	*2130-16x17*
6x7 mm	*2130-6x7*	18x19 mm	*2130-18x19*
8x9 mm	*2130-8x9*	20x22 mm	*2130-20x22*
10x11 mm	*2130-10x11*		

Item	Range	pcs	Art. No.
Double Ended Open Jaw Spanner Set	6-22 mm	8	2130-8T

Double Ended Open Jaw Spanner Set, chrome plated, 12 pcs.

Content		16x17 mm	2512-16x17
Open Ended Spanners		18x19 mm	2512-18x19
chrome plated		20x22 mm	2512-20x22
6x7 mm	2512-6x7	21x23 mm	2512-21x23
8x9 mm	2512-8x9	24x27 mm	2512-24x27
10x11 mm	2512-10x11	25x28 mm	2512-25x28
12x13 mm	2512-12x13	30x32 mm	2512-30x32
14x15 mm	2512-14x15		

Item	Range	pcs	Art. No.
Double Ended Open Jaw Spanner Set	6-32 mm	12	25-12T

Double Ended Open Jaw Spanner Set, chrome plated, 8 pcs.

Content		12x13 mm	2512-12x13
Open Ended Spanners		14x15 mm	2512-14x15
chrome plated		16x17 mm	2512-16x17
6x7 mm	2512-6x7	18x19 mm	2512-18x19
8x9 mm	2512-8x9	20x22 mm	2512-20x22
10x11 mm	2512-10x11		

Item	Range	pcs	Art. No.
Double Ended Open Jaw Spanner Set	6-22 mm	8	25-8T

Double Open End Spanner Set, display rack, 8 pcs., 6-22 mm

Content		12x13 mm	2512-12x13
Open Ended Spanners		14x15 mm	2512-14x15
chrome plated		16x17 mm	2512-16x17
6x7 mm	2512-6x7	18x19 mm	2512-18x19
8x9 mm	2512-8x9	20x22 mm	2512-20x22
10x11 mm	2512-10x11		

Item	Range	pcs	Art. No.
Double Open End Spanner Set	6-22 mm	8	2512-8H

Double Ended Open Jaw Spanners, chrome plated

Open Ended Spanners		12x13 mm	2512-12x13	21x23 mm	2512-21x23
chrome plated		14x15 mm	2512-14x15	24x27 mm	2512-24x27
6x7 mm	2512-6x7	16x17 mm	2512-16x17	25x28 mm	2512-25x28
8x9 mm	2512-8x9	18x19 mm	2512-18x19	30x32 mm	2512-30x32
10x11 mm	2512-10x11	20x22 mm	2512-20x22		

Adjustable Wrench, xcess performance, clamping range 38 mm

- rubber handle
- with scale and hanging hole

Item	Spread	Length	Art. No.
Adjustable Wrench	38 mm	215 mm	4468

Adjustable Wrench Set, 3 pcs.

- rubberised handles
- with scale and hanging hole
- spreads: 36 mm (150 mm), 39 mm (200 mm), 51 mm (250 mm)

Content	Spread	Length	Art. No.
Adjustable Wrench	36 mm	150 mm	4461
Adjustable Wrench	39 mm	200 mm	4462
Adjustable Wrench	51 mm	250 mm	4463

Item	Spread	Art. No.
Adjustable Wrench Set	36, 39, 51 mm	4460

Adjustable Wrenches

- rubberised handles
- with scale and hanging hole

Item	Spread	Length	Art. No.
Adjustable Wrench	36 mm	150 mm	4461
Adjustable Wrench	39 mm	200 mm	4462
Adjustable Wrench	51 mm	250 mm	4463
Adjustable Wrench	64 mm	300 mm	4464

Adjustable Wrenches

Item	Spread	Length	Art. No.
Adjustable Wrench	18 mm	150 mm (6")	237-6
Adjustable Wrench	23 mm	200 mm (8")	237-8
Adjustable Wrench	28 mm	250 mm (10")	237-10
Adjustable Wrench	34 mm	300 mm (12")	237-12
Adjustable Wrench	43 mm	380 mm (15")	237-15
Adjustable Wrench	53 mm	460 mm (18")	237-18
Adjustable Wrench	63 mm	610 mm (24")	237-24

Double Ended Open Jaw Spanner Set, extra flat, 6 pcs.

Content	Size	Form	Length	Thickness	Art. No.
Open Ended Spanner	8x9 mm	extra flat	177 mm	2.45 mm	*4456-8x9*
Open Ended Spanner	10x11 mm	extra flat	177 mm	2.60 mm	*4456-10x11*
Open Ended Spanner	12x13 mm	extra flat	210 mm	3.65 mm	*4456-12x13*
Open Ended Spanner	14x15 mm	extra flat	210 mm	3.65 mm	*4456-14x15*
Open Ended Spanner	16x17 mm	extra flat	250 mm	4.50 mm	*4456-16x17*
Open Ended Spanner	18x19 mm	extra flat	250 mm	4.50 mm	*4456-18x19*

Item	Form	Range	pcs	Art. No.
Double Ended Open Jaw Spanner Set	extra flat	8-19 mm	6	4456

Ratchet Ring Spanners

Ratchet Spanner Set, xcess performance, reversible, 12 pcs., 8-19 mm

Content	Size	Description	Teeth	Length	Art. No.
Ratchet Spanner	8 mm	reversible	90	150 mm	4160-8
Ratchet Spanner	9 mm	reversible	90	150 mm	4160-9
Ratchet Spanner	10 mm	reversible	120	160 mm	4160-10
Ratchet Spanner	11 mm	reversible	120	166 mm	4160-11
Ratchet Spanner	12 mm	reversible	120	172 mm	4160-12
Ratchet Spanner	13 mm	reversible	120	180 mm	4160-13
Ratchet Spanner	14 mm	reversible	120	190 mm	4160-14
Ratchet Spanner	15 mm	reversible	120	200 mm	4160-15
Ratchet Spanner	16 mm	reversible	120	210 mm	4160-16
Ratchet Spanner	17 mm	reversible	120	226 mm	4160-17
Ratchet Spanner	18 mm	reversible	120	235 mm	4160-18
Ratchet Spanner	19 mm	reversible	120	245 mm	4160-19

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-19 mm	12	4172

Ratchet Spanners, xcess performance, reversible

Spanners		11 mm	4160-11	16 mm	4160-16
Ratchet Wrench		12 mm	4160-12	17 mm	4160-17
8 mm	4160-8	13 mm	4160-13	18 mm	4160-18
9 mm	4160-9	14 mm	4160-14	19 mm	4160-19
10 mm	4160-10	15 mm	4160-15		

Ratchet Spanner Set, xcess performance, 12 pcs., 8-19 mm

Content	Size	Teeth	Length	Art. No.
Ratchet Spanner	8 mm	90	140 mm	4180-8
Ratchet Spanner	9 mm	90	150 mm	4180-9
Ratchet Spanner	10 mm	120	160 mm	4180-10
Ratchet Spanner	11 mm	120	168 mm	4180-11
Ratchet Spanner	12 mm	120	172 mm	4180-12
Ratchet Spanner	13 mm	120	180 mm	4180-13
Ratchet Spanner	14 mm	120	192 mm	4180-14
Ratchet Spanner	15 mm	120	200 mm	4180-15
Ratchet Spanner	16 mm	120	208 mm	4180-16
Ratchet Spanner	17 mm	120	226 mm	4180-17
Ratchet Spanner	18 mm	120	238 mm	4180-18
Ratchet Spanner	19 mm	120	248 mm	4180-19

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-19 mm	12	4192

Ratchet Spanner Set, xcess performance, 5 pcs., 8-19 mm

Content	Size	Teeth	Length	Art. No.
Ratchet Spanner	8 mm	90	140 mm	4180-8
Ratchet Spanner	10 mm	120	160 mm	4180-10
Ratchet Spanner	13 mm	120	180 mm	4180-13
Ratchet Spanner	17 mm	120	226 mm	4180-17
Ratchet Spanner	19 mm	120	248 mm	4180-19

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-19 mm	5	4185

Ratchet Spanner Set, xcess performance, 13 pcs., 8-32 mm

Content	Size	Teeth	Length	Art. No.
Ratchet Spanner	8 mm	90	140 mm	4180-8
Ratchet Spanner	10 mm	120	160 mm	4180-10
Ratchet Spanner	12 mm	120	172 mm	4180-12
Ratchet Spanner	13 mm	120	180 mm	4180-13
Ratchet Spanner	14 mm	120	192 mm	4180-14
Ratchet Spanner	17 mm	120	226 mm	4180-17
Ratchet Spanner	19 mm	120	248 mm	4180-19
Ratchet Spanner	21 mm	120	290 mm	4180-21
Ratchet Spanner	22 mm	120	290 mm	4180-22
Ratchet Spanner	24 mm	120	322 mm	4180-24
Ratchet Spanner	27 mm	120	360 mm	4180-27
Ratchet Spanner	30 mm	120	414 mm	4180-30
Ratchet Spanner	32 mm	120	420 mm	4180-32

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-32 mm	13	4193

Ratchet Spanners, xcess performance

Spanners					
Ratchet Wrench		13 mm	4180-13	21 mm	4180-21
8 mm	4180-8	14 mm	4180-14	22 mm	4180-22
9 mm	4180-9	15 mm	4180-15	24 mm	4180-24
10 mm	4180-10	16 mm	4180-16	27 mm	4180-27
11 mm	4180-11	17 mm	4180-17	30 mm	4180-30
12 mm	4180-12	18 mm	4180-18	32 mm	4180-32
		19 mm	4180-19		

Ratchet Spanner Set, 14 pcs., 6-19 mm

Content	Size	Teeth	Length	Art. No.
Ratchet Spanner	6 mm	72	126 mm	4120-06
Ratchet Spanner	7 mm	72	139 mm	4120-07
Ratchet Spanner	8 mm	72	139 mm	4120-08
Ratchet Spanner	9 mm	72	150 mm	4120-09
Ratchet Spanner	10 mm	72	157 mm	4120-10
Ratchet Spanner	11 mm	72	164 mm	4120-11
Ratchet Spanner	12 mm	72	168 mm	4120-12
Ratchet Spanner	13 mm	72	177 mm	4120-13
Ratchet Spanner	14 mm	72	189 mm	4120-14
Ratchet Spanner	15 mm	72	199 mm	4120-15
Ratchet Spanner	16 mm	72	210 mm	4120-16
Ratchet Spanner	17 mm	72	223 mm	4120-17
Ratchet Spanner	18 mm	72	235 mm	4120-18
Ratchet Spanner	19 mm	72	247 mm	4120-19

Item	Range	pcs	Art. No.
Ratchet Spanner Set	6-19 mm	14	4134

Ratchet Spanner Set, display rack, 7 pcs., 8-19 mm

Content	Size	Teeth	Length	Art. No.
Ratchet Spanner	8 mm	72	139 mm	4120-08
Ratchet Spanner	10 mm	72	157 mm	4120-10
Ratchet Spanner	12 mm	72	168 mm	4120-12
Ratchet Spanner	13 mm	72	177 mm	4120-13
Ratchet Spanner	14 mm	72	189 mm	4120-14
Ratchet Spanner	17 mm	72	223 mm	4120-17
Ratchet Spanner	19 mm	72	247 mm	4120-19

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-19 mm	7	4127

Ratchet Spanners

Spanners					
Ratchet Wrench		11 mm	4120-11	17 mm	4120-17
6 mm	4120-06	12 mm	4120-12	18 mm	4120-18
7 mm	4120-07	13 mm	4120-13	19 mm	4120-19
8 mm	4120-08	14 mm	4120-14		
9 mm	4120-09	15 mm	4120-15		
10 mm	4120-10	16 mm	4120-16		

Ratchet Spanner Set, xcess performance, flexible head, 12 pcs., 8-19 mm

Content	Size	Form	Teeth	Length	Art. No.
Ratchet Spanner	8 mm	flexible	90	140 mm	4140-8
Ratchet Spanner	9 mm	flexible	90	150 mm	4140-9
Ratchet Spanner	10 mm	flexible	120	160 mm	4140-10
Ratchet Spanner	11 mm	flexible	120	165 mm	4140-11
Ratchet Spanner	12 mm	flexible	120	175 mm	4140-12
Ratchet Spanner	13 mm	flexible	120	180 mm	4140-13
Ratchet Spanner	14 mm	flexible	120	195 mm	4140-14
Ratchet Spanner	15 mm	flexible	120	200 mm	4140-15
Ratchet Spanner	16 mm	flexible	120	210 mm	4140-16
Ratchet Spanner	17 mm	flexible	120	230 mm	4140-17
Ratchet Spanner	18 mm	flexible	120	240 mm	4140-18
Ratchet Spanner	19 mm	flexible	120	250 mm	4140-19

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-19 mm	12	4152

Ratchet Spanners, xcess Performance, flexible head

Ratchet Spanners					
flexible		12 mm	4140-12	17 mm	4140-17
8 mm	4140-8	13 mm	4140-13	18 mm	4140-18
9 mm	4140-9	14 mm	4140-14	19 mm	4140-19
10 mm	4140-10	15 mm	4140-15		
11 mm	4140-11	16 mm	4140-16		

Double Head Ratchet Spanners, xcess performance

Item	Size	Teeth	Art. No.
Double Head Ratchet Spanner	8x10 mm	72	4075-8x10
Double Head Ratchet Spanner	10x13 mm	72	4075-10x13

Adapter Set for Ratchet Spanners, 4 pcs.

Item	pcs	Art. No.
Adapter Set for Ratchet Spanners	4	4090

Flare Nut Spanners

Flare Nut Spanner Set, 7 pcs., 6-19 mm

Content	Size	Length	Art. No.
Flare Nut Spanner	6x7 mm	140 mm	84-6x7
Flare Nut Spanner	8x9 mm	140 mm	84-8x9
Flare Nut Spanner	10x11 mm	150 mm	84-10x11
Flare Nut Spanner	12x13 mm	172 mm	84-12x13
Flare Nut Spanner	14x15 mm	185 mm	84-14x15
Flare Nut Spanner	16x17 mm	195 mm	84-16x17
Flare Nut Spanner	18x19 mm	210 mm	84-18x19

Item	Range	pcs	Art. No.
Flare Nut Spanner Set	6-19 mm	7	4084

Flare Nut Spanner Set, 4 pcs., 8-17 mm

Content	Size	Length	Art. No.
Flare Nut Spanner	8x9 mm	140 mm	84-8x9
Flare Nut Spanner	10x11 mm	150 mm	84-10x11
Flare Nut Spanner	12x13 mm	172 mm	84-12x13
Flare Nut Spanner	14x17 mm	195 mm	84-14x17

Item	Range	pcs	Art. No.
Flare Nut Spanner Set	8-17 mm	4	84-4

Flare Nut Spanner Set, 2 pcs., 10-13 mm

Content	Size	Length	Art. No.
Flare Nut Spanner	10x11 mm	150 mm	84-10x11
Flare Nut Spanner	12x13 mm	172 mm	84-12x13

Item	Range	pcs	Art. No.
Flare Nut Spanner Set	10-13 mm	2	84-2

Flare Nut Spanners

Item	Size	Length	Art. No.
Flare Nut Spanner	6x7 mm	140 mm	84-6x7
Flare Nut Spanner	8x9 mm	140 mm	84-8x9
Flare Nut Spanner	10x11 mm	150 mm	84-10x11
Flare Nut Spanner	12x13 mm	172 mm	84-12x13
Flare Nut Spanner	14x15 mm	185 mm	84-14x15
Flare Nut Spanner	14x17 mm	195 mm	84-14x17
Flare Nut Spanner	16x17 mm	195 mm	84-16x17
Flare Nut Spanner	18x19 mm	210 mm	84-18x19

Flare Nut Spanner Set, 5 pcs., flexible heads, 8-12 mm

- designed for screw connections on brake, fuel and oil pipes, air conditioning etc.
- flexible head, 270° swivelling

Content	Size	Form	Length	Art. No.
Flare Nut Spanner, flexible head	8 mm	one side flexible	133 mm	4079-8
Flare Nut Spanner, flexible head	9 mm	one side flexible	133 mm	4079-9
Flare Nut Spanner, flexible head	10 mm	one side flexible	133 mm	4079-10
Flare Nut Spanner, flexible head	11 mm	one side flexible	150 mm	4079-11
Flare Nut Spanner, flexible head	12 mm	one side flexible	154 mm	4079-12

Item	Form	Range	pcs	Art. No.
Flare Nut Spanner	one side flexible	8-12 mm	5	4079-5SA

Flare Nut Spanners, flexible head

- designed for screw connections on brake, fuel and oil pipes, air conditioning etc.
- flexible head, 270° swivelling

Flex. Head Flare Nut Spanner					
one side flexible	9 mm	4079-9	12 mm	4079-12	
8 mm 4079-8	10 mm	4079-10	14 mm	4079-14	
	11 mm	4079-11			

Flare Nut Ratchet Spanners

- avoids slipping off or damaging screw connections
- covers approx. 3/4 of screw connection, enabling high leverage

Item	Size	Length	Art. No.
Flare Nut Ratchet Spanner	10 mm	160 mm	4077-10
Flare Nut Ratchet Spanner	11 mm	171 mm	4077-11

Flare Nut Spanner Set, 4 pcs., inch 5/16-11/16"

Content	Size	Art. No.
Flare Nut Spanner	5/16x3/8"	*84Z-1*
Flare Nut Spanner	3/8x7/16"	*84Z-2*
Flare Nut Spanner	1/2x9/16"	*84Z-3*
Flare Nut Spanner	5/8x11/16"	*84Z-4*

Item	Range	pcs	Art. No.
Flare Nut Spanner Set	5/16-11/16"	4	84-4Z

Flare Nut Spanner Set, 6 pcs., flexible heads, 1/4-15/16"

- designed for screw connections on brake, fuel and oil pipes, air conditioning etc.
- flexible head, 270° swivelling

Content	Size	Form	Art. No.
Flare Nut Spanner, flexible head	1/4x15/16"	both sides flexible	*4082-1*
Flare Nut Spanner, flexible head	3/8x7/16"	both sides flexible	*4082-2*
Flare Nut Spanner, flexible head	1/2x9/16"	both sides flexible	*4082-3*
Flare Nut Spanner, flexible head	5/8x11/16"	both sides flexible	*4082-4*
Flare Nut Spanner, flexible head	3/4x13x16"	both sides flexible	*4082-5*
Flare Nut Spanner, flexible head	7/8x15/16"	both sides flexible	*4082-6*

Item	Form	Range	pcs	Art. No.
Flare Nut Spanner	both sides flexible	1/4-15/16"	6	4082

Ratchet Ring Spanner Set, xcess performance, 5 pcs., 10-22 mm

- open construction with flexible head
- designed for easy access to hard-to-reach areas
- flexible wrench head works like ratchet mechanism
- specially suitable for working on pipes in cars, trucks, construction and agricultural machinery, compressors etc.

Content	Size	Length	Art. No.
Ratchet Ring Spanner	10 mm	140 mm	*4088-10*
Ratchet Ring Spanner	13 mm	140 mm	*4088-13*
Ratchet Ring Spanner	17 mm	190 mm	*4088-17*
Ratchet Ring Spanner	19 mm	190 mm	*4088-19*
Ratchet Ring Spanner	22 mm	230 mm	*4088-22*

Item	Range	pcs	Art. No.
Ratchet Ring Spanner Set	10-22 mm	5	4088-5

Ratchet Ring Spanner Set, xcess performance, 4 pcs., 24-32 mm

- open construction with flexible head
- designed for easy access to hard-to-reach areas
- flexible wrench head works like ratchet mechanism
- specially suitable for working on pipes in cars, trucks, construction and agricultural machinery, compressors etc.

Content	Size	Length	Art. No.
Ratchet Ring Spanner	24 mm	237 mm	*4088-24*
Ratchet Ring Spanner	27 mm	242 mm	*4088-27*
Ratchet Ring Spanner	30 mm	325 mm	*4088-30*
Ratchet Ring Spanner	32 mm	327 mm	*4088-32*

Item	Range	pcs	Art. No.
Ratchet Ring Spanner Set	24-32 mm	4	4088-4

Ratchet Ring Spanner Set, 5 pcs., 10-22 mm

- open construction with flexible head
- designed for easy access to hard-to-reach areas
- flexible wrench head works like ratchet mechanism
- specially suitable for working on pipes in cars, trucks, construction and agricultural machinery, compressors etc.

Content	Size	Length	Art. No.
Ratchet Ring Spanner	10 mm	155 mm	4087-10
Ratchet Ring Spanner	13 mm	155 mm	4087-13
Ratchet Ring Spanner	17 mm	210 mm	4087-17
Ratchet Ring Spanner	19 mm	210 mm	4087-19
Ratchet Ring Spanner	22 mm	220 mm	4087-22

Item	Range	pcs	Art. No.
Ratchet Ring Spanner Set	10-22 mm	5	4087-5

Ratchet Ring Spanner Set, 4 pcs., 24-32 mm

- open construction with flexible head
- designed for easy access to hard-to-reach areas
- flexible wrench head works like ratchet mechanism
- specially suitable for working on pipes in cars, trucks, construction and agricultural machinery, compressors etc.

Content	Size	Length	Art. No.
Ratchet Ring Spanner	24 mm	220 mm	4087-24
Ratchet Ring Spanner	27 mm	325 mm	4087-27
Ratchet Ring Spanner	30 mm	325 mm	4087-30
Ratchet Ring Spanner	32 mm	325 mm	4087-32

Item	Range	pcs	Art. No.
Ratchet Ring Spanner Set	24-32 mm	4	4087-4

Spanners, miscellaneous

Double Flexible Socket Wrench Set, 6 pcs., hex 8-19 mm

Content	Size	Art. No.
Double Flex. Head Wrench	8x9 mm	*132-8x9*
Double Flex. Head Wrench	10x11 mm	*132-10x11*
Double Flex. Head Wrench	12x13 mm	*132-12x13*
Double Flex. Head Wrench	14x15 mm	*132-14x15*
Double Flex. Head Wrench	16x17 mm	*132-16x17*
Double Flex. Head Wrench	18x19 mm	*132-18x19*

Item	Profile	Range	pcs	Art. No.
Double Flexible Head Wrench Set	hexagon	8-19 mm	6	132-6

Double Flexible Socket Wrench Set, 4 pcs., hex 20-32 mm

Content	Size	Art. No.
Double Flex. Head Wrench	20x22 mm	*132-20x22*
Double Flex. Head Wrench	21x23 mm	*132-21x23*
Double Flex. Head Wrench	24x27 mm	*132-24x27*
Double Flex. Head Wrench	30x32 mm	*132-30x32*

Item	Profile	Range	pcs	Art. No.
Double Flexible Head Wrench Set	hexagon	20-32 mm	4	132-4

Double Flexible Head Wrench Set, 7 pcs., hex 4-24 mm

Content	Size	Art. No.
Double Flex. Head Wrench	4x5 mm	*131-4x5*
Double Flex. Head Wrench	6x7 mm	*131-6x7*
Double Flex. Head Wrench	8x10 mm	*131-8x10*
Double Flex. Head Wrench	12x14 mm	*131-12x14*
Double Flex. Head Wrench	16x17 mm	*131-16x17*
Double Flex. Head Wrench	18x19 mm	*131-18x19*
Double Flex. Head Wrench	22x24 mm	*131-22x24*

Item	Profile	Range	pcs	Art. No.
Double Flexible Head Wrench Set	Hexagon	4-24 mm	7	131-7

Double Flexible Head Wrench Set, 6 pcs., tx-star T20-90

Content	Size	Art. No.
Double Flex. Head Wrench	T20x25	*131-20x25*
Double Flex. Head Wrench	T27x30	*131-27x30*
Double Flex. Head Wrench	T40x45	*131-40x45*
Double Flex. Head Wrench	T50x55	*131-50x55*
Double Flex. Head Wrench	T60x70	*131-60x70*
Double Flex. Head Wrench	T80x90	*131-80x90*

Item	Profile	Range	pcs	Art. No.
Double Flexible Head Wrench Set	TX-Star T	T20-90	6	131-5EX

Swivel Head Wrench

- with 1/4" hexagon for bits and 1/4" sq. drive for sockets

Item	Length	Art. No.
Swivel Head Wrench	187 mm	4440

Wrench Extender, 385 mm

- higher leverage for loosening tight screws
- ideal for working in confined spaces
- for use with combination spanners, ring spanners, open-end spanners, L-type keys etc.
- depending on design suitable for spanner sizes up to 41 mm
- handle with finer recesses and dipped insulation for a better grip

Item	Length	Art. No.
Wrench Extender	385 mm	4470

Slugging Wrenches

- for loosening tightly stuck screws
- strong shaft with large striking surface transmits the highest torques
- specially suitable for working on cars, trucks, construction and agricultural machinery, etc.

Item	Size	Length	Art. No.
Slugging Wrench	18 mm	145 mm	4419-18
Slugging Wrench	19 mm	145 mm	4419-19
Slugging Wrench	21 mm	155 mm	4419-21
Slugging Wrench	22 mm	155 mm	4419-22
Slugging Wrench	24 mm	165 mm	4419-24
Slugging Wrench	27 mm	180 mm	4419-27
Slugging Wrench	30 mm	190 mm	4419-30
Slugging Wrench	32 mm	190 mm	4419-32
Slugging Wrench	34 mm	195 mm	4419-34
Slugging Wrench	36 mm	200 mm	4419-36
Slugging Wrench	38 mm	200 mm	4419-38
Slugging Wrench	41 mm	230 mm	4419-41
Slugging Wrench	46 mm	235 mm	4419-46
Slugging Wrench	50 mm	255 mm	4419-50

Face Spanner Set, 17 pcs.

- 8 exchangeable pin pairs:
  2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 mm
- adjustable through knurled locking screw
- spread 100 mm
- suitable for counter holding e.g.:
- repairs on transmission and differential on Mercedes, Ford, Volvo etc.
- visco fan replacement on Audi A4, A6, A8, VW Passat etc.
- for pulling off and assembling vibration absorbers when repairing belt pulleys

Item	Size	pcs	Art. No.
Face Spanner Set	2.5-9 mm	17	4495

Face Spanner

- range 11 mm and higher

Item	Size	Description	Length	Art. No.
Face Spanner	ø 4 mm	pin-ø 4 mm	180 mm	4490

Hook Wrench, flexible jaw

Item	Size	Length	Art. No.
Hook Wrench, flexible jaw	15-35 mm	155 mm	4480-1
Hook Wrench, flexible jaw	35-50 mm	190 mm	4480-2
Hook Wrench, flexible jaw	50-80 mm	250 mm	4480-3

Wheel Nut Wrench

- extendable up to 500 mm

Item	Description	Length	Art. No.
Wheel Nut Wrench	with reversible 17 / 19 mm socket	370-500 mm	1105
Wheel Nut Wrench	with 15 mm socket	370-500 mm	1105-15

4-Way Wheel Nut Wrench, DIN 899, 17x19x21 + 1/2" sq. drive

Item	Size	Description	Length	Art. No.
Four Way Wheel Nut Wrench	17x19x21 + 1/2"	material ø 16 mm	380 mm	5186

4-Way Wheel Nut Wrench For Trucks, 30x32x33 mm x 3/4" sq. drive

Item	Size	Description	Length	Art. No.
4-Way Wheel Nut Wrench For Trucks	30x32x33 + 3/4"	material ø 19 mm	640 mm	5187

Tubular Box Spanner Set, 9 pcs., 6-22 mm

Item	Range	pcs	Art. No.
Tubular Box Spanner Set	6-22 mm	9	125

Tubular Box Spanner Set, black phosphated, 9 pcs., 6-22 mm

Item	Range	pcs	Art. No.
Tubular Box Spanner Set	6-22 mm	9	1025

Podger Spanners

Item	Size	Length	Art. No.
Podger Spanner	19x22 mm	320 mm	45
Podger Spanner	19x24 mm	365 mm	45-1

Screwdrivers

Screwdriver Set, xcess performance, metal stand, 20 pcs.

- contains the common sizes in plain, cross and tx-star
- go-through hexagon blade, striking cap and bolster on slotted 6.5 / 8 mm and PH2 / PH3
- VDE screwdriver according to DIN ISO EN 60900, for working up to 1.000V
- optional 4 extra strong magnets can be screwed on for easy attachment to metallic surfaces, e.g. on tool cabinets or workbench
- made in Germany

Content		5.5x125 mm	49755
TX-Star T		6.5x125 mm	49765
Screwdriver		8x150 mm	49780
T10x80 mm	49310	2.5x75 mm	49025
T15x80 mm	49315	3.5x100 m	49035
T20x100 mm	49320	4x100 mm	49040
T25x100 mm	49325	Cross Slot PH	
T27x115 mm	49327	Screwdriver	
T30x115 mm	49330	PH1x80 mm	49801
T40x115 mm	49340	PH2x100 mm	49802
Plain Slot		PH3x150 mm	49803
Screwdriver		PH1x80 mm	49001
3x75 mm	49730	PH2x100 mm	49002

Item	Profile	pcs	Art. No.
Screwdriver Set	TX-Star T, Cross Slot PH, Plain Slot	20	49500

Miscellaneous Tools	
Mains Tester, 120-250 V, 140 mm	570

Screwdriver Set, xcess performance, 7 pcs., plain + cross slot

- go-through hexagon blade, striking cap and hexagonal wrench on slotted 6.5 / 8 mm and PH2 / PH3
- made in Germany

Content		8x150 mm	49780
Plain Slot		Cross Slot PH	
Screwdriver		Screwdriver	
3x75 mm	49730	PH1x80 mm	49801
5.5x125 mm	49755	PH2x100 mm	49802
6.5x125 mm	49765	PH3x150 mm	49803

Item	Profile	pcs	Art. No.
Screwdriver Set	Plain Slot, Cross Slot PH	7	49700

Screwdriver Set, xcess performance, 7 pcs., TX-Star

- made in Germany

Content		T20x100 mm	49320
TX-Star T		T25x100 mm	49325
Screwdriver		T27x115 mm	49327
T10x80 mm	49310	T30x115 mm	49330
T15x80 mm	49315	T40x115 mm	49340

Item	Profile	pcs	Art. No.
Screwdriver Set	TX-Star T	7	49300

Screwdrivers, xcess performance

- go-through hexagon blade, striking cap and hexagonal wrench on slotted 6.5 / 8 mm and PH2 / PH3
- made in Germany

Item	Profile	Size	Blade Length	Description	Art. No.
Screwdriver	Plain Slot	3 mm	75 mm		49730
Screwdriver	Plain Slot	5.5 mm	125 mm		49755
Screwdriver	Plain Slot	6.5 mm	125 mm	striking cap	49765
Screwdriver	Plain Slot	8 mm	150 mm	striking cap	49780
Screwdriver	Cross Slot PH	PH1	80 mm		49801
Screwdriver	Cross Slot PH	PH2	100 mm	striking cap	49802
Screwdriver	Cross Slot PH	PH3	150 mm	striking cap	49803
Screwdriver	TX-Star T	T10	80 mm		49310
Screwdriver	TX-Star T	T15	80 mm		49315
Screwdriver	TX-Star T	T20	100 mm		49320
Screwdriver	TX-Star T	T25	100 mm		49325
Screwdriver	TX-Star T	T27	115 mm		49327
Screwdriver	TX-Star T	T30	115 mm		49330
Screwdriver	TX-Star T	T40	115 mm		49340

Screwdriver Set, impact, 7 pcs., plain slot + cross slot

- go-through hexagon blade, striking cap and bolster on slotted 6.5 / 8 mm and PH2 / PH3
- magnetic tips
- blades made of high quality S2 steel, with black oxide coating to protect against corrosion

Content		5.5x125 mm	11977-55	Screwdriver	
Plain Slot		6.5x125 mm	11970-65	PH1x75 mm	11988-01
Screwdriver		8.0x150 mm	11970-80	PH2x100 mm	11980-02
3.0x75 mm	11977-30	Cross Slot PH		PH3x150 mm	11980-03

Item	Profile	Material	pcs	Art. No.
Screwdriver Set	Plain Slot, Cross Slot PH	CR-V S2	7	11900

Screwdriver Set, 7 pcs., tx-star

- magnetic tips
- blades made of high quality S2 steel, with black oxide coating to protect against corrosion

Content		T15x100 mm	11933-15	T30x100 mm	11933-30
TX-Star T		T20x100 mm	11933-20	T40x125 mm	11933-40
Screwdriver		T25x100 mm	11933-25		
T10x100 mm	11933-10	T27x100 mm	11933-27		

Item	Profile	Material	pcs	Art. No.
Screwdriver Set	TX-Star T	CR-V S2	7	11901

Screwdriver Set, 9 pcs., plain slot + PH + PZ

- magnetic tips
- blades made of high quality S2 steel, with black oxide coating to protect against corrosion

Content		6.5x125 mm	11977-65	Cross Slot PZ	
Plain Slot		8.0x150 mm	11977-80	Screwdriver	
Screwdriver		Cross Slot PH		PZ1x75 mm	11999-01
3.0x75 mm	11977-30	Screwdriver		PZ2x100 mm	11999-02
4.0x100 mm	11977-40	PH1x75 mm	11988-01		
5.5x125 mm	11977-55	PH2x100 mm	11988-02		

Item	Profile	Material	pcs	Art. No.
Screwdriver Set	Plain Slot, Cross Slot PH, Cross Slot PZ	CR-V S2	9	11902

Screwdriver Set, 6 pcs., plain slot + cross slot PH

- magnetic tips
- blades made of high quality S2 steel, with black oxide coating to protect against corrosion

Content		5.5x125 mm	11977-55	Screwdriver	
Plain Slot		6.5x125 mm	11977-65	PH1x75 mm	11988-01
Screwdriver		8.0x150 mm	11977-80	PH2x100 mm	11988-02
3.0x75 mm	11977-30	Cross Slot PH			

Item	Profile	Material	pcs	Art. No.
Screwdriver Set	Plain Slot, Cross Slot PH	CR-V S2	6	11903

Screwdriver Set, 6 pcs., plain slot + cross slot PZ

- magnetic tips
- blades made of high quality S2 steel, with black oxide coating to protect against corrosion

Content		5.5x125 mm	11977-55	Screwdriver	
Plain Slot		6.5x125 mm	11977-65	PZ1x75 mm	11999-01
Screwdriver		8.0x150 mm	11977-80	PZ2x100 mm	11999-02
3.0x75 mm	11977-30	Cross Slot PZ			

Item	Profile	Material	pcs	Art. No.
Screwdriver Set	Plain Slot, Cross Slot PZ	CR-V S2	6	11904

Screwdrivers

- magnetic tips
- blades made of high quality S2 steel, with black oxide coating to protect against corrosion

Item	Profile	Size	Blade Length	Description	Art. No.
Screwdriver	Plain Slot	3.0 mm	75 mm		11977-30
Screwdriver	Plain Slot	4.0 mm	100 mm		11977-40
Screwdriver	Plain Slot	5.5 mm	125 mm		11977-55
Screwdriver	Plain Slot	6.5 mm	125 mm		11977-65
Screwdriver	Plain Slot	6.5 mm	125 mm	striking cap	11970-65
Screwdriver	Plain Slot	8.0 mm	150 mm		11977-80
Screwdriver	Plain Slot	8.0 mm	150 mm	striking cap	11970-80
Screwdriver	Cross Slot PH	PH1	75 mm		11988-01
Screwdriver	Cross Slot PH	PH2	100 mm		11988-02
Screwdriver	Cross Slot PH	PH2	100 mm	striking cap	11980-02
Screwdriver	Cross Slot PH	PH3	150 mm	striking cap	11980-03
Screwdriver	Cross Slot PZ	PZ1	75 mm		11999-01
Screwdriver	Cross Slot PZ	PZ2	100 mm		11999-02
Screwdriver	TX-Star T	T10	100 mm		11933-10
Screwdriver	TX-Star T	T15	100 mm		11933-15
Screwdriver	TX-Star T	T20	100 mm		11933-20
Screwdriver	TX-Star T	T25	100 mm		11933-25
Screwdriver	TX-Star T	T27	100 mm		11933-27
Screwdriver	TX-Star T	T30	100 mm		11933-30
Screwdriver	TX-Star T	T40	125 mm		11933-40

Screwdriver Set, diamond coated, 7 pcs., plain slot + PH + PZ

- diamond coating on the tips reduces wear, provides more friction and higher torque
- magnetic tips
- blades made of high quality S2 steel, with black oxide coating to protect against corrosion
- plain slot: 3x75, 5.5x125, 6.5x125 and 8x150 mm
- cross slot PH: PH1x75 and PH2x100
- cross slot PZ: PZ2x100 mm

Item	Profile	Material	pcs	Art. No.
Screwdriver Set	Plain Slot, Cross Slot PH, Cross Slot PZ	CR-V S2	7	11800

Screwdriver Set, 12 pcs.

- go-through hexagon blade
- magnetic tips

Content		6.5x110 mm	912-617	PH0x75 mm	912-018
Plain Slot		8x150 mm	912-817	PH1x75 mm	912-118
Screwdriver		10x200 mm	912-917	PH2x110 mm	912-218
6x38 mm	912-607	Cross Slot PH		PH3x150 mm	912-318
3x75 mm	912-317	Screwdriver		PH4x200 mm	912-418
5.5x80 mm	912-517	PH2x38 mm	912-208		

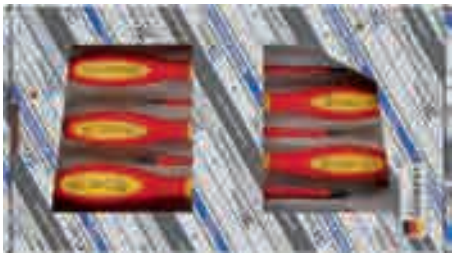
Item	Profile	pcs	Art. No.
Screwdriver Set	Plain Slot, Cross Slot PH	12	912

Screwdriver Set, xcess performance, 6 pcs., VDE, plain + cross slot

- for working with voltages of up to 1.000V
- protective insulated blade according to DIN ISO EN 60900
- incl. voltage tester, 120-250 Volt
- made in Germany

Content		3.5x100 m	49035	PH1x80 mm	49001
Plain Slot		4x100 mm	49040	PH2x100 mm	49002
Screwdriver		Cross Slot PH			
2.5x75 mm	49025	Screwdriver			

Item	Profile	pcs	Art. No.
Screwdriver Set, 6 pcs., VDE	Plain Slot, Cross Slot PH	6	49000



Miscellaneous Tools	
Mains Tester, 120-250 V, 140 mm	570

Screwdrivers, xcess performance, VDE

- for working with voltages of up to 1.000V
- protective insulated blade according to DIN ISO EN 60900
- made in Germany

Item	Profile	Size	Blade Length	Art. No.
Screwdriver	Plain Slot	2.5 mm	75 mm	49025
Screwdriver	Plain Slot	3.5 mm	100 mm	49035
Screwdriver	Plain Slot	4 mm	100 mm	49040
Screwdriver	Cross Slot PH	PH1	80 mm	49001
Screwdriver	Cross Slot PH	PH2	100 mm	49002

Screwdrivers, xcess performance, VDE

- for working with voltages of up to 1.000V
- protective insulated blade according to DIN ISO EN 60900

Item	Profile	Size	Blade Length	Art. No.
Screwdriver	Plain Slot	2.5 mm	75 mm	30725-25
Screwdriver	Plain Slot	3.0 mm	100 mm	30725-30
Screwdriver	Plain Slot	3.5 mm	100 mm	30725-35
Screwdriver	Plain Slot	4.0 mm	100 mm	30725-40
Screwdriver	Cross Slot PH	PH1	80 mm	30725-PH1
Screwdriver	Cross Slot PH	PH2	80 mm	30725-PH2
Screwdriver	TX-Star T	T15	100 mm	30725-T15
Screwdriver	TX-Star T	T20	100 mm	30725-T20
Screwdriver	TX-Star T	T25	125 mm	30725-T25
Screwdriver	TX-Star T	T30	150 mm	30725-T30
Screwdriver	hexagon	6 mm	125 mm	30725-H06
Screwdriver	hexagon	7 mm	125 mm	30725-H07
Screwdriver	hexagon	8 mm	125 mm	30725-H08

Electronic Screwdriver Set, VDE, 6 pcs., plain + cross slot

- ergonomic slim handle shape with rotating cap for precise work
- precision blades for more torque with less effort
- for working with voltages of up to 1.000V
- protective insulated blade according to DIN ISO EN 60900
- plain slot: 1.8 x 50 mm, 2.0 x 50 mm, 2.5 x 65 mm and 3.0 x 65 mm
- cross slot: PH00 x 65 mm, PH0 x 65 mm

Item	Profile	pcs	Art. No.
Electronic Screwdriver Set	Plain Slot, Cross Slot PH	6	11826

Precision Screwdriver Sets, 6 pcs.

Item	Plain Slot	Cross Slot PH	pcs	Art. No.
Precision Screwdriver Set	0.9, 1.2, 1.8, 2.4, 3.0, 3.5 mm		6	300
Precision Screwdriver Set	1.4, 2.0, 2.4, 3.0 mm	PH0, 1	6	301A

Electronic Screwdriver Set, 3 pcs.

- plain slot: 2.4x75 mm, 3.0x100 mm
- cross slot: PH0x75 mm

Item	Description	pcs	Art. No.
Electronic Screwdriver Set	extra long	3	345

Reversible Blade Screwdriver

- plastic handle
- reversible blade

Item	Plain Slot	Cross Slot PH	Blade Length	Art. No.
Reversible Blade Screwdriver	6 mm	PH 2	148 mm	560

Screwdriver

Item	Drive	Description	Length	Art. No.
Screwdriver	1/4" hex	magnetic	200 mm	21118

Flexible Screwdriver, for 1/4" bits, 325 mm

- made in Germany

Item	Drive	Length	Art. No.
Flexible Screwdriver	1/4" hex	325 mm	49921

Flexible Screwdriver, hex 7 mm, 358 mm

Item	Profile	Size	Length	Art. No.
Flexible Screwdriver	hexagon	7 mm	358 mm	11921

Hose Clamp Screwdriver 2 in 1

- flexible shaft

Item	Description	Length	Art. No.
Hose Clamp Screwdriver	reversible adapter, 6 / 7 mm	320 mm	921

Bits

Bit Set, xcess performance, with colour coding, 32 pcs.

- bits 1/4", length: 25 mm
  4 plain slot: 3, 4, 5, 6 mm
  4 cross slot PH: PH1, 2 (2x), 3
  4 cross slot PZ: PZ1, 2 (2x), 3
  4 hexagon: 3, 4, 5, 6 mm
  7 tx-star: T10, 15, 20, 25, 27, 30, 40
  7 tx-star tamperproof: T10, 15, 20, 25, 27, 30, 40
- accessory:
  1 bit holder with quick release, length 60 mm
  1 bit-adapter 1/4" sq. drive

Item	Drive	pcs	Art. No.
Bit Set	1/4" hex	32	2132

Twist Drill Bits and Bit Set, 1/4" hex shank, 38 pcs.

- 9 twist drill bits ø 3, 4, 4.5, 5, 5.5, 6, 7, 8, 10 mm
- 1 micro reversible ratchet for bits
- 1 adapter, 1/4" square x 1/4" hexagon
- 2 bit holders with quick release, length 67 and 150 mm
- 25 bits

Content		6 mm	16022-6	Plain Slot	
Twist Drill Bits		TX-Star T		1/4" bit, 25 mm	
1/4" hex shank		1/4" bit, 25 mm		4 mm	*16077-4*
3.0 mm	39640-30	T10	16033-10	5.5 mm	*16077-5.5*
4.0 mm	39640-40	T15	16033-15	6.5 mm	*16077-6.5*
4.5 mm	39640-45	T20	16033-20	Cross Slot PH	
5.0 mm	39640-50	T25	16033-25	1/4" bit, 25 mm	
5.5 mm	39640-55	T27	16033-27	PH1	*16088-1*
6.0 mm	39640-60	T30	16033-30	PH2	*16088-2*
7.0 mm	39640-70	T40	16033-40	PH3	*16088-3*
8.0 mm	39640-80	TX-Star tamperproof		Cross Slot PZ	
10.0 mm	39640-100	1/4" bit, 25 mm		1/4" bit, 25 mm	
Hexagon		T20	16044-20	PZ1	*16099-1*
1/4" bit, 25 mm		T25	16044-25	PZ2	*16099-2*
3 mm	16022-3	T27	16044-27	PZ3	*16099-3*
4 mm	16022-4	T30	16044-30		
5 mm	16022-5	T40	16044-40		

Item	Drive	pcs	Art. No.
Twist Drill Bits and Bit Set	1/4" hex	38	39600

Drive Tools / Accessory, 1/4"	
Micro Bit Reversible Ratchet, with finger disc	1221
Adapter, 1/4" square x 1/4" hexagon	*20630*
Bit Holder, with quick-change chuck, for 1/4" bits, length 67 mm	21261
Bit Holder, with quick-change chuck, for 1/4" bits, length 150 mm	21262

Security Bit Set, 100 pcs.

- bits 1/4", 25 mm long:
  9 plain slot: 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8 mm
  8 cross slot PH: PH0, 1, 2 (5x), 3
  8 cross slot PZ: PZ0, 1, 2 (5x), 3
  9 tx-star: T8, 10, 15, 20, 25, 27, 30, 40, 45
  10 tx-star tamperproof: T8, 9, 10, 15, 20, 25, 27, 30, 35, 40
  9 hexagon, metric: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8 mm
  10 hexagon, inch: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4"
  6 hexagon tamperproof, metric: 2, 2.5, 3, 4, 5, 6 mm
  6 hexagon tamperproof, inch: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"
  3 spline: M5, 6, 8
  4 spanner: 4, 6, 8, 10 mm
  4 square: 0, 1, 2, 3
  3 winged: 6, 8, 10
  3 clutch: 1, 2, 3
  4 tri-winged: 1, 2, 3, 4
- accessory:
  1 magnetic bit holder
  2 adapters 25 + 50 mm
  1 bit-adapter 1/4" sq. drive
  1 hook bit

Item	Drive	pcs	Art. No.
Security Bit Set	1/4" hex	100	1100

Screwdriver Socket and Bit Set, 122 pcs.

- sockets:
  10 sockets, hexagon, metric: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 mm
  10 sockets, hexagon, inch: 5/32, 3/16, 7/32, 1/4, 9/32, 11/32, 5/16, 3/8, 7/16, 1/2"
- bits 1/4", 25 mm long:
  13 tx-star: T5, 6, 7, 8, 9, 10, 15, 20, 25, 27, 30, 40, 45
  9 tx-star tamperproof: T8, 10, 15, 20, 25, 27, 30, 35, 40
  9 5-star tamperproof: 10, 15, 20, 25, 27, 30, 40, 45, 50
  9 hexagon, metric: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8 mm
  6 hexagon, metric, tamperproof: 2, 2.5, 3, 4, 5, 6 mm
  10 hexagon, inch: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4"
  3 spline: M5, 6, 8
  9 plain slot: 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8 mm
  5 cross slot PH: PH00, 0, 1, 2, 3
  5 cross slot PZ: PZ00, 0, 1, 2, 3
  3 clutch: 1, 2, 3
  4 square: 0, 1, 2, 3
  4 spanner: 4, 6, 8, 10 mm
  3 winged: 6, 8, 10
  4 tri-winged: 1, 2, 3, 4
- accessory:
  1 screwdriver with magnet
  1 magnetic bit holder
  2 adapters
  1 bit-adapter 1/4" sq. drive
  1 hook bit

Item	Drive	pcs	Art. No.
Screwdriver Socket And Bit Set	1/4" hex	122	2122

Screwdriver Bit Set, 23 pcs.

- bits 1/4", 25 mm long:
  7 tx-star: T10, 15, 20, 25, 27, 30, 40
  6 hexagon: 3, 4, 5, 6, 7, 8 mm
  2 plain slot: 4, 6 mm
  3 cross slot PH: PH1, 2, 3
  2 cross slot PZ: PZ2, 3
- accessory:
  1 screwdriver with magnet
  1 bit-adapter 1/4" sq. drive
  1 valve insert assembly bit

Item	Drive	pcs	Art. No.
Screwdriver Bit Set	1/4" hex	23	2123

Impact Bit Assortment, 45 pcs., 1/4" hex

- sockets, 1/4" hex, 50 mm long:
  3 sockets, hexagon: 6, 8, 10 mm
- bits, 1/4" hex, 25 mm long:
  10 tx-star: T8, 9, 10, 15, 20, 25, 27, 30, 40, 45
  3 tx-star tamperproof: T20, 25, 30
  6 hexagon: 3, 4, 5, 6, 7, 8 mm
  5 plain slot: 2.5, 3, 4, 5.5, 6.5 mm
  4 cross slot PH: PH1, 2 (2x), 3
  4 cross slot PZ: PZ1, 2 (2x), 3
- bits, 1/4" hex, 50 mm long:
  4 tx-star: T15, 20, 25, 30
  2 hexagon: 4, 5 mm
  1 cross slot PH: PH2
  1 cross slot PZ: PZ2
- accessory, 1/4" hexagon:
  1 magnet holder, for 1/4" bits
  1 adapter, 1/4" sq. drive

Item	Drive	pcs	Art. No.
Impact Bit Assortment	1/4" hex	45	1145

Security Bit Set, 55 pcs.

- bits 1/4", 75 mm long:
  3 plain slot: 4, 5, 6 mm
  2 cross slot PH: PH1, 2
  2 cross slot PZ: PZ1, 2
  7 tx-star: T10, 15, 20, 25, 27, 30, 40
  10 tx-star tamperproof: T8, 9, 10, 15, 20, 25, 27, 30, 35, 40
  4 hexagon: 3, 4, 5, 6 mm
  6 hexagon tamperproof: 2, 2.5, 3, 4, 5, 6 mm
  3 spline: M5, 6, 8
  4 spanner: 4, 6, 8, 10 mm
  2 square: 1, 2
  3 winged: 6, 8, 10
  3 clutch: 1, 2, 3
  4 tri-wing: 1, 2, 3, 4
- accessory:
  1 bit-adapter 1/4"
  1 magnetic holder

Item	Drive	pcs	Art. No.
Security Bit Set	1/4" hex	55	1101

Security Bit Set, 33 pcs.

- bits 1/4", 25 mm long:
  9 tx-star tamperproof: T8, 10, 15, 20, 25, 27, 30, 35, 40
  6 hexagon tamperproof, metric: 2, 2.5, 3, 4, 5, 6 mm
  6 hexagon tamperproof, inch: 5/32, 9/64, 1/8, 7/64, 3/32, 5/64"
  4 spanner: 4, 6, 8, 10 mm
  4 tri-wing: 1, 2, 3, 4
  3 winged: 6, 8, 10 mm
- accessory:
  1 magnetic holder

Item	Drive	pcs	Art. No.
Security Bit Set	1/4" hex	33	308

Bit Set, 7 pcs.

- supplied in round dispenser
- including 1 magnetic bit holder

Item	Bits	Plain Slot	Cross Slot PH	Cross Slot PZ	Art. No.
Bit Set	1/4"	4.5, 7 mm	PH 1, 2	PZ 1, 2	316

Bit Set, 11 pcs., tx-star T7-45

Content					
TX-Star T		T9	16033-9	T27	16033-27
1/4" bit, 25 mm		T10	16033-10	T30	16033-30
T7	16033-7	T15	16033-15	T40	16033-40
T8	16033-8	T20	16033-20	T45	16033-45
		T25	16033-25		

Item	Profile	Drive	Material	pcs	Art. No.
Bit Set	TX-Star T	1/4" hex	CR-V S2	11	1113

Bit Ratchet Set, 17 pcs.

- bits 1/4", 25 mm long:
  4 tx-star: T15, 20, 25, 30
  4 hexagon: 3, 4, 5, 6 mm
  2 plain slot: 4, 6 mm
  3 cross slot PH: PH0, 1, 2
  1 cross slot PZ: PZ2
- accessory:
  1 mini reversible ratchet for bits
  1 magnetic holder for 1/4" bits
  1 adapter, 1/4" square x 1/4" hex

Item	Drive	pcs	Art. No.
Bit Ratchet Set	1/4" hex	17	72017

Impact Bit Assortment, 20 pcs., 1/4" hex

- bits, 1/4" hex, 50 mm long:
  5 tx-star: T20, 25, 27, 30, 40
  5 hexagon: 4, 5, 6, 7, 8 mm
  3 plain slot: 4.0, 6.0, 8.0 mm
  4 cross slot PH: 1, 2 (2x), 3
  2 cross slot PZ: 2 (2x)

Item	Drive	pcs	Art. No.
Impact Bit Assortment	1/4" hex	20	72020

Impact Driver Bits, 6 pcs.

Content	Profile	Size	Drive	Length	Art. No.
Bit	Plain Slot	8 mm	8 mm hex	30 mm	*17077-8*
Bit	Plain Slot	10 mm	8 mm hex	30 mm	*17077-10*
Bit	Plain Slot	10 mm	8 mm hex	65 mm	*17177-10*
Bit	Cross Slot PH	PH2	8 mm hex	30 mm	*17088-2*
Bit	Cross Slot PH	PH3	8 mm hex	30 mm	*17088-3*
Bit	Cross Slot PH	PH3	8 mm hex	65 mm	*17188-3*

Item	Profile	Drive	pcs	Art. No.
Impact Driver Bits	Plain Slot, Cross Slot PH	8 mm hex	6	224-B

Bit Set, 108 pcs.

- 6 bits each size

Item	Bits	Plain Slot	Cross Slot PH	Cross Slot PZ	Hexagon	TX-Star T	Art. No.
Bit Set	1/4"	4.5, 6, 7 mm	PH 1, 2, 3	PZ 1, 2, 3	4, 5, 6 mm	T 10, 15, 20, 25, 30, 40	908

Hose Clamp Bit Socket Set, 4 pcs., 1/4" hex, hexagon 6-7-8-10 mm

Content	Profile	Drive	Art. No.
Hose Clamp Bit Socket	hexagon	1/4" hex	*16921-6*
Hose Clamp Bit Socket	hexagon	1/4" hex	*16921-7*
Hose Clamp Bit Socket	hexagon	1/4" hex	*16921-8*
Hose Clamp Bit Socket	hexagon	1/4" hex	*16921-10*

Item	Profile	Drive	pcs	Art. No.
Hose Clamp Bit Socket Set	hexagon	1/4" hex	4	16921

Professional Bit Holders, xcess performance, with spring ring, for 1/4" bits

- with spring ring for secure locking
- extra slim construction, head-ø 11 mm
- for use with power drills and cordless screwdrivers
- additional magnet for better grip

Item	Drive	Length	Art. No.
Professional Bit Holder	1/4" hex	60 mm	38260
Professional Bit Holder	1/4" hex	100 mm	38261
Professional Bit Holder	1/4" hex	175 mm	38262
Professional Bit Holder	1/4" hex	300 mm	38263

with spring ring

Magnetic Holder, for 1/4" bits

- for power drills and cordless screwdrivers

Item	Drive	Length	Art. No.
Magnetic Holder	1/4" hex	60 mm	21260

Bit Holder, with quick-change chuck, for 1/4" bits

- with quick-change function and automatic locking device
- for use with power drills and cordless screwdrivers
- additional magnet for better grip

Item	Drive	Length	Art. No.
Bit Holder	1/4" hex	67 mm	21261
Bit Holder	1/4" hex	150 mm	21262

Flexible Bit Holder, with quick-change chuck, for 1/4" bits

- flexible shaft
- with quick-change function and automatic locking device
- for use with power drills and cordless screwdrivers
- additional magnet for better grip

Item	Drive	Length	Art. No.
Flexible Bit Holder	1/4" hex	200 mm	21250

Keys

Key Sets, xcess performance, extra long

- premium quality holder with perfect fittings, made from solid ABS material
- S2 chrome vanadium steel with special bronzed coating for better rust protection

Item	Profile	Size	pcs	Art. No.
Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	38002
Key Set	TX-Star	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	38003

Key Sets, extra long

- plastic holder

Item	Profile	Size	pcs	Art. No.
Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	1121-1
Key Set	Hexagon inch	1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 1/4, 5/16, 3/8"	9	1121Z
Key Set	TX-Star T	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121-2
Key Set	5-Star tamperproof	TS10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121-5

Key Set, colored

- plastic holder

Item	Profile	Size	pcs	Art. No.
Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	1121-8
Key Set	TX-Star T	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121-9

Key Sets

- plastic holder
- extra short arm

Item	Profile	Size	pcs	Art. No.
Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	1121-3
Key Set	TX-Star T	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121-4

Key Sets

- plastic holder

Item	Profile	Size	pcs	Art. No.
Key Set	Hexagon	1.5, 2, 3, 4, 5, 6, 8, 10 mm	9	1121-16
Key Set	TX-Star	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121-17

Key Sets, magnetic

- plastic holder

Item	Profile	Size	pcs	Art. No.
Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	1121-6
Key Set	TX-Star T	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121-7

Key Sets, extra short

- plastic holder

Item	Profile	Size	pcs	Art. No.
Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	1120-01
Key Set	TX-Star tamperproof	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1120-02

Hex Key Set, 36 pcs., 1 holder each for metric and inch

- plastic holder
- metric standard: 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 5, and 5.5 mm
- metric long: 1.5, 2, 2.5, 3, 4, 4.5, 5, 6 and 8 mm
- inch standard: 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 5/32, 3/16 and 7/32"
- inch long: 1/16, 5/64, 3/32, 1/8, 9/64, 5/32, 3/16, 1/4 and 5/16"

Item	Profile	pcs	Art. No.
Ball End Key Set	hex	36	71121

Key Set, extra long

Item	Profile	Size	pcs	Art. No.
Key Set	Hexagon	3, 4, 5, 6, 7, 8, 10, 12, 14, 17 mm	10	2017

Offset screwdriver set, 6 pcs, Slot / PH / PZ

- blade made of round bar, chrome vanadium steel
- for use in narrow, hard-to-reach areas
- offset on both side, tips rotated 90° and 180°
- scope of delivery:
  1 each double blade slotted 4x90 mm, 5x120 and 6.5x160 mm
  1 each double blade cross PH1x120, PH2x160 mm and PZ2x160 mm

Item	Profile	pcs	Art. No.
Offset screwdriver set	Plain Slot, Cross Slot PH, Cross Slot PZ	6	11789

Key Set

Item	Profile	Size	pcs	Art. No.
Key Set	TX-Star T	T25, 30, 40, 45, 50, 55	6	165

Pocket Key Set

Item	Profile	Size	pcs	Art. No.
Pocket Key Set	TX-Star T	T9, 10, 15, 20, 25, 27, 30, 40	8	1002

T-Handle Keys

3-Way T-Handle Spinner Wrench Set, xcess p., 8 pcs., hexagon 2-10 mm

- freely rotating sleeve for fast working
- t-handle can be fixed in 3 positions
- extra slim design for narrow spaces
- in storage rack, suitable for wall mounting

Content	Profile	Size	Length	Art. No.
3-Way Fast Spin T-Handle Key	Hexagon	2 mm	125 x 65 mm	2018-02
3-Way Fast Spin T-Handle Key	Hexagon	2.5 mm	125 x 65 mm	2018-025
3-Way Fast Spin T-Handle Key	Hexagon	3 mm	125 x 65 mm	2018-03
3-Way Fast Spin T-Handle Key	Hexagon	4 mm	180 x 90 mm	2018-04
3-Way Fast Spin T-Handle Key	Hexagon	5 mm	180 x 90 mm	2018-05
3-Way Fast Spin T-Handle Key	Hexagon	6 mm	210 x 105 mm	2018-06
3-Way Fast Spin T-Handle Key	Hexagon	8 mm	250 x 125 mm	2018-08
3-Way Fast Spin T-Handle Key	Hexagon	10 mm	300 x 145 mm	2018-10

Item	Profile	Range	pcs	Art. No.
3-Way T-Handle Spinner Wrench Set	Hexagon	2-10 mm	8	2018

3-Way T-Handle Spinner Wrench, xcess performance, hexagon

- freely rotating sleeve for fast working
- t-handle can be fixed in 3 positions
- extra slim design for narrow spaces

Hexagon		3x125 mm	2018-03	8x250 mm	2018-08
T-Handle Key		4x180 mm	2018-04	10x300 mm	2018-10
2x125 mm	2018-02	5x180 mm	2018-05		
2.5x125 mm	2018-025	6x210 mm	2018-06		

3-Way T-Handle Spinner Wrench Set, xcess perf., 9 pcs., tx-star T10-50

- freely rotating sleeve for fast working
- t-handle can be fixed in 3 positions
- extra slim design for narrow spaces
- in storage rack, suitable for wall mounting

Content	Profile	Size	Length	Art. No.
3-Way Fast Spin T-Handle Key	TX-Star T	T10	125 x 65 mm	2019-10
3-Way Fast Spin T-Handle Key	TX-Star T	T15	125 x 65 mm	2019-15
3-Way Fast Spin T-Handle Key	TX-Star T	T20	125 x 65 mm	2019-20
3-Way Fast Spin T-Handle Key	TX-Star T	T25	125 x 65 mm	2019-25
3-Way Fast Spin T-Handle Key	TX-Star T	T27	180 x 90 mm	2019-27
3-Way Fast Spin T-Handle Key	TX-Star T	T30	180 x 90 mm	2019-30
3-Way Fast Spin T-Handle Key	TX-Star T	T40	210 x 105 mm	2019-40
3-Way Fast Spin T-Handle Key	TX-Star T	T45	250 x 125 mm	2019-45
3-Way Fast Spin T-Handle Key	TX-Star T	T50	250 x 125 mm	2019-50

Item	Profile	Range	pcs	Art. No.
3-Way T-Handle Spinner Wrench Set	TX-Star T	T10-50	9	2019

3-Way T-Handle Spinner Wrench, xcess performance, tx-star

- freely rotating sleeve for fast working
- t-handle can be fixed in 3 positions
- extra slim design for narrow spaces

TX-Star T		T20x125 mm	2019-20	T40x210 mm	2019-40
T-Handle Key		T25x180 mm	2019-25	T45x250 mm	2019-45
T10x125 mm	2019-10	T27x180 mm	2019-27	T50x250 mm	2019-50
T15x125 mm	2019-15	T30x180 mm	2019-30		

3-Way T-Handle Spinner Wrench, xcess performance

- freely rotating sleeve for fast working
- t-handle can be fixed in 3 positions
- extra slim design for narrow spaces

Item	Drive	Length	Art. No.
T-Handle Spinner Wrench	1/4"	250 x 125 mm	2032
T-Handle Spinner Wrench	3/8"	320 x 165 mm	2033

Ball End T-Handle Key Set, 8 pcs., hex 2-10 mm

- t-handle with 2-way blade
- with metal stand, suitable for wall fastening

Content	Profile	Size	Length	Art. No.
T-Handle Key	Hexagon	2 mm	90 mm	11192-2
T-Handle Key	Hexagon	2.5 mm	100 mm	11192-2.5
T-Handle Key	Hexagon	3 mm	115 mm	11192-3
T-Handle Key	Hexagon	4 mm	120 mm	11192-4
T-Handle Key	Hexagon	5 mm	140 mm	11192-5
T-Handle Key	Hexagon	6 mm	160 mm	11192-6
T-Handle Key	Hexagon	8 mm	175 mm	11192-8
T-Handle Key	Hexagon	10 mm	200 mm	11192-10

Item	Profile	Range	pcs	Art. No.
Ball End T-Handle Key Set	Hexagon, Ball-Head	2-10 mm	8	1119-2

T-Handle Keys, hex / ball-head

- t-handle with 2-way blade

Hexagon T-Handle Key					
2x90 mm	11192-2	3x115 mm	11192-3	7x170 mm	11192-7
2.5x100 mm	11192-2.5	4x120 mm	11192-4	8x175 mm	11192-8
		5x140 mm	11192-5	10x200 mm	11192-10
		6x160 mm	11192-6		

T-Handle Key Set, 9 pcs., tx-star T10-50

- t-handle with 2-way blade
- with metal stand, suitable for wall fastening

Content	Profile	Size	Length	Art. No.
T-Handle Key	TX-Star T	T10	100 mm	11193-10
T-Handle Key	TX-Star T	T15	115 mm	11193-15
T-Handle Key	TX-Star T	T20	120 mm	11193-20
T-Handle Key	TX-Star T	T25	130 mm	11193-25
T-Handle Key	TX-Star T	T27	140 mm	11193-27
T-Handle Key	TX-Star T	T30	150 mm	11193-30
T-Handle Key	TX-Star T	T40	160 mm	11193-40
T-Handle Key	TX-Star T	T45	175 mm	11193-45
T-Handle Key	TX-Star T	T50	200 mm	11193-50

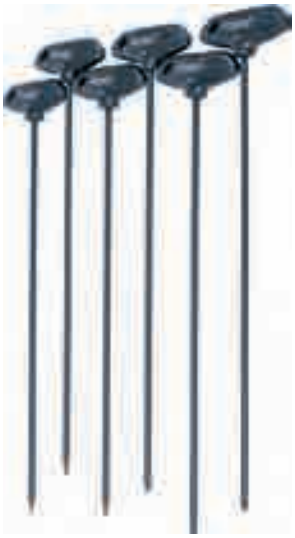
Item	Profile	Range	pcs	Art. No.
T-Handle Key Set	TX-Star T	T10-50	9	1119-3

T-Handle Keys, tx-star

- t-handle with 2-way blade

TX-Star T T-Handle Key					
T10x100 mm	11193-10	T20x120 mm	11193-20	T40x160 mm	11193-40
T15x115 mm	11193-15	T25x130 mm	11193-25	T45x175 mm	11193-45
		T27x140 mm	11193-27	T50x200 mm	11193-50
		T30x150 mm	11193-30		

T-Handle Key Set, 6 pcs., extra long, tx-star T10-30



- extra long, visible blade length 360 mm
- for hard to reach spaces, e.g. on dashboards, engines, headlights, fuse boxes, bumper bars
- manufactured in Germany

Content	Profile	Size	Blade Length	Art. No.
T-Handle Key	TX-Star T	T10	360 mm	11183-10
T-Handle Key	TX-Star T	T15	360 mm	11183-15
T-Handle Key	TX-Star T	T20	360 mm	11183-20
T-Handle Key	TX-Star T	T25	360 mm	11183-25
T-Handle Key	TX-Star T	T27	360 mm	11183-27
T-Handle Key	TX-Star T	T30	360 mm	11183-30

Item	Profile	Blade Length	Range	pcs	Art. No.
T-Handle Key Set	TX-Star T	360 mm	T10-30	6	1118-3

T-Handle Key Set, 6 pcs.

- 2-component handle
- with stand, suitable for wall fastening
- made of chrome vanadium steel

Content	Profile	Size	Length	Art. No.
T-Handle Key	hexagon	6 mm	230 mm	2027-6
T-Handle Key	hexagon	8 mm	230 mm	2027-8
T-Handle Key	hexagon	10 mm	230 mm	2027-10
T-Handle Key	hexagon	12 mm	230 mm	2027-12
T-Handle Key	hexagon	13 mm	230 mm	2027-13
T-Handle Key	hexagon	14 mm	230 mm	2027-14

Item	Profile	Length	Range	pcs	Art. No.
T-Handle Key Set	hexagon	230 mm	6 - 14 mm	6	2026

T-Handle Keys

Item	Profile	Size	Length	Art. No.
T-Handle Key	hexagon	6 mm	230 mm	2027-6
T-Handle Key	hexagon	8 mm	230 mm	2027-8
T-Handle Key	hexagon	10 mm	230 mm	2027-10
T-Handle Key	hexagon	12 mm	230 mm	2027-12
T-Handle Key	hexagon	13 mm	230 mm	2027-13
T-Handle Key	hexagon	14 mm	230 mm	2027-14

Swivel Head T-Handle Keys, extra long

hexagon T-Handle Key					
6x395 mm	2030-6	10x400 mm	2030-10	16x450 mm	2030-16
7x395 mm	2030-7	11x400 mm	2030-11	17x450 mm	2030-17
8x395 mm	2030-8	12x400 mm	2030-12	18x450 mm	2030-18
9x400 mm	2030-9	13x432 mm	2030-13	19x500 mm	2030-19
		14x432 mm	2030-14		
		15x450 mm	2030-15		

T-Handle Key, 1/4", 70 mm long

- short compact design

Item	Drive	Length	Art. No.
T-Handle	1/4"	70 mm	8200-TG

General Pliers

Pliers Set, 6 pcs.

Content	Length	Art. No.
Side Cutter	160 mm	1170
Combination Pliers	180 mm	1185
Long Nose Pliers	200 mm	1176
Bent Nose Pliers	200 mm	1180
Water Pump Pliers	240 mm	2722
Water Pump Pliers	175 mm	2721

Item	pcs	Art. No.
Pliers Set	6	1166

Pliers Set, 3 pcs.

Content	Length	Art. No.
Side Cutter	165 mm	40170
Combination Pliers	200 mm	40185
Long Nose Pliers	200 mm	40176

Item	pcs	Art. No.
Pliers Set	3	40163

Pliers Set, 3 pcs.

Content	Length	Art. No.
Side Cutter	165 mm	71170
Combination Pliers	175 mm	71185
Long Nose Pliers	160 mm	71175

Item	pcs	Art. No.
Pliers Set	3	71163

Water Pump Pliers Set, one-hand operation, 3 pcs., 175 / 240 / 300 mm

- push-button for quick and exact adjustment with only one hand
- black lacquered, jaws polished, handles dip-insulated
- forged and hardened
- max. opening width: 32 mm (175 mm), 36 mm (240 mm), 52 mm (300 mm)

Content	Length	Art. No.
Water Pump Pliers	175 mm	2721
Water Pump Pliers	240 mm	2722
Water Pump Pliers	300 mm	2723

Item	Length	pcs	Art. No.
Water Pump Pliers Set	175, 240, 300 mm	3	2720

Long Nose Plier Set, 3 pcs.

- extra long pattern
- serrated tips

Content	Description	Length	Art. No.
Long Nose Pliers	straight type	280 mm	1177
Long Nose Pliers	45° offset	275 mm	1181
Long Nose Pliers	90° offset	260 mm	1182

Item	pcs	Art. No.
Long Nose Plier Set	3	1183

Electronic Plier Set, 5 pcs.

- self opening due to internal double spring
- 2-component handle
- supplied in high quality case
- matt polished finish

Content	Length	Art. No.
Side Cutter	115 mm	1490
Long Nose Plier, straight	130 mm	1491
Long Nose Plier, bent	138 mm	1492
Combination Plier	120 mm	1493
Endcutting Plier	105 mm	1494

Item	pcs	Art. No.
Electronic Plier Set	5	1495

Mini Plier Set, 3 pcs., stainless steel, 100 mm long

- with spring-loaded long nose pliers, round nose pliers and diagonal pliers
- for bending, straightening and cutting wire etc.
- with ergonomic, rubberised handles
- made of stainless steel

Item	Length	pcs	Art. No.
Mini Plier Set	100 mm	3	70760

Water Pump Pliers, one-hand operation, 250 mm

- push-button for quick and exact adjustment with only one hand
- inductive hardened jaw
- grip capacity 40% above DIN standard
- titan-finish
- manufactured in Germany

Item	Length	Art. No.
Water Pump Pliers	250 mm	41191

Water Pump Pliers, one-hand operation

- push-button for quick and exact adjustment with only one hand
- black lacquered, jaws polished, handles dip-insulated
- forged and hardened

Item	Length	Art. No.
Water Pump Pliers	175 mm	2721
Water Pump Pliers	240 mm	2722
Water Pump Pliers	300 mm	2723
Water Pump Pliers	400 mm	2724

Water Pump Pliers

- black finish, polished jaw and joint
- PVC dipped handles

Item	Length	Art. No.
Water Pump Pliers	150 mm	272CV150
Water Pump Pliers	175 mm	272CV175
Water Pump Pliers	240 mm	272CV240
Water Pump Pliers	300 mm	272CV300
Water Pump Pliers	400 mm	273CV400

Water Pump Pliers

- lacquered red finish, polished jaw and joint

Item	Length	Art. No.
Water Pump Pliers	175 mm	272EX175
Water Pump Pliers	240 mm	272EX240

Combination Pliers, 45° offset, 200 mm

- spring-opening
- inductive hardened blades, suitable for hard and soft wire or cables
- with integrated ring spanner for bolt sizes up to 18 mm
- titan-finish
- manufactured in Germany

Item	Description	Length	Art. No.
Combination Pliers	45° offset	200 mm	41187

Combination Pliers, 180 mm

- with integrated ring spanner for bolt sizes up to 18 mm
- titan-finish
- manufactured in Germany

Item	Length	Art. No.
Combination Pliers	180 mm	41185

Combination Pliers

- matt chrome plated finish with black phosphated blades

Item	Length	Art. No.
Combination Pliers	180 mm	1185

Combination Pliers

- matt polished and black phosphated finish

Item	Length	Art. No.
Combination Pliers	200 mm	40185

Combination Pliers

- matt polished finish

Item	Length	Art. No.
Combination Pliers	165 mm	71184
Combination Pliers	175 mm	71185
Combination Pliers	200 mm	71186

Side Cutter, 160 mm

- capacity:
  hard wire - 1800 N/mm² - max. ø 3.5 mm
  semi-hard wire - 750 N/mm² - max. ø 4.5 mm
- titan-finish
- manufactured in Germany

Item	Length	Art. No.
Side Cutter	160 mm	41170

Heavy Duty Side Cutter, lever transmission, 200 mm

- inductive hardened blades for maximum performance
- precision blades, for e.g. piano wire, rivets, nails
- lever power transmission reduces effort by up to 50%
- capacity:
  piano wire - 2300 N/mm² - max. ø 3 mm
  hard wire - 1800 N/mm² - max. ø 3.5 mm
  semi-hard wire - 750 N/mm - max. ø 4.5 mm
- titan-finish
- manufactured in Germany

Item	Description	Length	Art. No.
Side Cutter	lever transmission	200 mm	41172

Side Cutter

- matt chrome plated finish with black phosphated blades

Item	Length	Art. No.
Side Cutter	160 mm	1170

Heavy-Duty Diagonal Cutter

- matt chrome plated finish with black phosphated blades

Item	Length	Art. No.
Heavy-Duty Diagonal Cutter	250 mm	1172

Side Cutter

- matt polished and black phosphated finish

Item	Length	Art. No.
Side Cutter	165 mm	40170

Side Cutter

- matt polished finish

Item	Length	Art. No.
Side Cutter	165 mm	71170

Heavy-Duty Diagonal Cutter

- matt polished finish

Item	Length	Art. No.
Heavy-Duty Diagonal Cutter	180 mm	71173
Heavy-Duty Diagonal Cutter	240 mm	71172

Long Nose Pliers, 200 mm

- inductive hardened blades, suitable for hard and soft wires
- integrated ring spanner for bolt sizes up to 15 mm
- titan-finish
- manufactured in Germany

Item	Length	Art. No.
Long Nose Pliers	200 mm	41176

Long Nose Pliers

- matt chrome plated finish with black phosphated blades

Item	Length	Art. No.
Long Nose Pliers	160 mm	1175
Long Nose Pliers	200 mm	1176

Long Nose Pliers

- matt polished and black phosphated finish

Item	Length	Art. No.
Long Nose Pliers	200 mm	40176

Long Nose Pliers

- matt polished finish

Item	Length	Art. No.
Long Nose Pliers	160 mm	71175
Long Nose Pliers	200 mm	71176

Bent Nose Pliers, 200 mm

- inductive hardened blades, suitable for hard and soft wires
- integrated ring spanner for bolt sizes up to 15 mm
- titan-finish
- manufactured in Germany

Item	Length	Art. No.
Long Nose Pliers	200 mm	41180

Bent Nose Pliers

- matt chrome plated finish with black phosphated blades

Item	Length	Art. No.
Bent Nose Pliers	200 mm	1180

Bent Nose Pliers

- matt polished finish

Item	Length	Art. No.
Bent Nose Pliers	200 mm	71180

Flat Nose Pliers

- matt polished finish

Item	Length	Art. No.
Flat Nose Pliers	160 mm	71178

Long Nose Pliers

1177

1181

1182

- extra long pattern
- serrated tips

Item	Description	Length	Art. No.
Long Nose Pliers	straight type	280 mm	1177
Long Nose Pliers	45° offset	275 mm	1181
Long Nose Pliers	90° offset	260 mm	1182

Precision Pliers

- self opening due to internal double spring
- 2-component handle

Item	Length	Art. No.
Side Cutter	115 mm	1490
Long Nose Plier, straight	130 mm	1491
Long Nose Plier, bent	138 mm	1492
Combination Plier	120 mm	1493
Endcutting Plier	105 mm	1494

Precision Pliers

- self opening due to internal double spring

Item	Length	Art. No.
Long Nose Pliers	120 mm	763
Long Nose Pliers	180 mm	755
Combination Plier	120 mm	767
Top Cutter	100 mm	766

Tower Pincers

- polished jaw
- PVC-dipped handle

Item	Length	Art. No.
Tower Pincers	250 mm	278

Eyelet Pliers

- automatic press button, includes 100 eyelets 4.4 mm, chrome plated

Item	Length	Art. No.
Eyelet Pliers	165 mm	785

accessory

Item	Art. No.
Eyelets, 400 pcs., ø 4.4 mm	786

Riveters

Heavy Duty Nut Riveter

- solid metal body, space saving fold-out arms
- for alloy and steel rivets: ø 3.2, 4.0, 4.8, 5.6, 6.4 mm
- for nut rivets: M4, 5, 6, 8, 10

Content	Length	Size	Art. No.
Nut Riveter	510 mm		*5760-Z*
Blind Rivet Receiver		3.2 mm	*5760-0932*
Blind Rivet Receiver		4.0 mm	*5760-0940*
Blind Rivet Receiver		4.8 mm	*5760-0948*
Blind Rivet Receiver		5.6 mm	*5760-0956*
Blind Rivet Receiver		6.4 mm	*5760-0964*
Open Ended Spanner		12 x 17 mm	*5760-19*
Open Ended Spanner		15 x 19 mm	*5760-24*
Open Ended Spanner		5.5 x 8.5 mm	*5760-29*
Head Screw Connection for Rivet Nut Thornes			*5760-25*
Rivet Nut Receiver		M4	*5760-264*
Rivet Nut Receiver		M5	*5760-265*
Rivet Nut Receiver		M6	*5760-266*
Rivet Nut Receiver		M8	*5760-268*
Rivet Nut Receiver		M10	*5760-2610*

Item	Art. No.
Heavy Duty Nut Riveter	5760

Nut Riveter

- with waste container
- for alloy and steel rivets: ø 3.2, 4.0, 4.8, 6.4 mm
- high leverage, arm length 265 mm
- 4 interchangeable nozzles

Item	Length	Art. No.
Nut Riveter	320 mm	5762

Nut Riveter

- for alloy and steel rivets: ø 2.4, 3.2, 4.0, 4.8 mm
- ergonomic handles for high leverage
- 4 interchangeable nozzles

Item	Length	Art. No.
Nut Riveter	210 mm	5764

Swivel Head Riveter

- swivel head
- for blind rivets: 2.4, 3.2, 4.0, 4.8 mm
- 4 interchangeable nozzles

Item	Length	Art. No.
Swivel Head Riveter	290 mm	233

Riveter

- for blind rivets: 2.4, 3.2, 4.0, 4.8 mm
- 4 interchangeable nozzles

Item	Length	Art. No.
Riveter	260 mm	235

Riveter Kit

- for blind rivets: 2.4, 3.2, 4.0, 4.8 mm
- 4 interchangeable nozzles
- includes 100 assorted rivets

Item	Description	Art. No.
Riveter Kit	incl. 100 rivets	236

Grip Pliers

Vise-Grip® Grip Pliers

- with bent jaws
- self-reinforcing grip jaw for three times higher clamp pressure
- prevents slipping off nuts and bolts

Item	Spread	Length	Art. No.
Vise-Grip® Grip Plier 5CR 5"	29 mm	125 mm	41001
Vise-Grip® Grip Plier 7CR 7"	38 mm	175 mm	41002
Vise-Grip® Grip Plier 10CR 10"	48 mm	250 mm	41003

Vise-Grip® Grip Pliers

- with straight jaws
- maximum contact on flat, square or hexagonal surface

Item	Spread	Length	Art. No.
Vise-Grip® Grip Plier 7R 7"	38 mm	175 mm	41004
Vise-Grip® Grip Plier 10R 10"	48 mm	250 mm	41005

Vise-Grip® Grip Pliers

- with bent jaw and wire cutter
- for various applications and materials

Item	Spread	Length	Art. No.
Vise-Grip® Grip Plier 10WR 10"	48 mm	220 mm	41037

Vise-Grip® Grip Pliers

- with bent jaw and wire cutter
- for various applications and materials

Item	Spread	Length	Art. No.
Vise-Grip® Grip Plier 4WR 4"	25 mm	100 mm	41006
Vise-Grip® Grip Plier 5WR 5"	29 mm	125 mm	41007
Vise-Grip® Grip Plier 7WR 7"	38 mm	175 mm	41008
Vise-Grip® Grip Plier 10WR 10"	48 mm	220 mm	41009

Vise-Grip® Long Nose Grip Pliers

- with wire cutter
- long, straight nose for access to hard-to-reach areas

Item	Spread	Length	Art. No.
Vise-Grip® Long Nose Grip Plier 4LN 4"	41 mm	100 mm	41010
Vise-Grip® Long Nose Grip Plier 6LN 6"	51 mm	150 mm	41011
Vise-Grip® Long Nose Grip Plier 9LN 9"	70 mm	225 mm	41012

Vise-Grip® Grip Pliers

- c-shaped clamp pliers with fixed clamp jaw
- wide opening jaw
- versatile for applications with many materials

Item	Spread	Length	Art. No.
Vise-Grip® Grip Plier 6R 6"	54 mm	165 mm	41013
Vise-Grip® Grip Plier 11R 11"	102 mm	275 mm	41014
Vise-Grip® Grip Plier 18R 18"	203 mm	455 mm	41015
Vise-Grip® Grip Plier 24R 24"	254 mm	605 mm	41016

Vise-Grip® Grip Pliers

- c-shaped clamp pliers with swivel clamp jaw
- wide opening jaw
- versatile for applications with many materials

Item	Spread	Length	Art. No.
Vise-Grip® Grip Plier 6SP 6"	54 mm	165 mm	41035
Vise-Grip® Grip Plier 11SP 11"	102 mm	275 mm	41033
Vise-Grip® Grip Plier 18SP 18"	203 mm	455 mm	41034

Vise-Grip® Grip Pliers

- c-shaped clamp pliers with deep pattern
- deep pattern enables gripping of unevenly shaped or conical workpieces

Item	Spread	Length	Art. No.
Vise-Grip® Grip Plier 18DR 18"	190 mm	455 mm	41018

Vise-Grip® Grip Welding Pliers

- for precise alignment of round or square pipes
- u-shape allows for visibility during welding

Item	Spread	Length	Art. No.
Vise-Grip® Grip Welding Plier 9R 9"	70 mm	225 mm	41032

Vise-Grip® Jaw Grip Pliers

- special jaw design clamps on 3 sides of screw
- prevents jaw from slipping off
- prevents rounding of screws

Item	Spread	Length	Art. No.
Vise-Grip® Jaw Grip Plier 4LW 4"	7 - 14 mm	100 mm	41025

Special Jaw Grip Plier, 100 mm

- special jaw design clamps on 3 sides of screw
- prevents jaw from slipping off
- prevents rounding of screws
- spread from 7 - 14 mm

Item	Spread	Length	Art. No.
Special Jaw Grip Plier	7 - 14 mm	100 mm	4797

Specialist Grip Pliers

CrMo

- for clamping and loosening damaged and tight nuts, bolts and pipes

Item	Spread	Length	Art. No.
Specialist Grip Pliers	5 - 30 mm	210 mm	4795

Grip Pliers Set, 17 pcs.

- specially designed for jobs on bodywork
- chrome-vanadium-steel
- 2 curved jaw grip pliers, length 130 mm
- 3 curved jaw grip pliers, length 180 mm
- 5 curved jaw grip pliers, length 225 mm
- 2 welding pliers, length 225 mm
- 2 clamping pliers, length 280 mm
- 2 long nose grip pliers, length 160 mm
- 1 long nose grip pliers, length 225 mm

Item	pcs	Art. No.
Grip Pliers Set	17	5800

Grip Pliers Set, curved jaw + long nose, 4 pcs.

- chrome vanadium steel
- 1 curved jaw grip pliers, length 130 mm
- 1 curved jaw grip pliers, length 180 mm
- 1 curved jaw grip pliers, length 225 mm
- 1 long nose grip pliers, length 160 mm

Item	pcs	Art. No.
Grip Pliers Set	4	5804

Power Grip Pliers, 250 mm

Item	Length	Art. No.
Power Grip Plier, 250 mm	250 mm	4793

Curved Jaw Grip Pliers

- forged jaw, chrome plated

Item	Length	Art. No.
Curved Jaw Grip Pliers	180 mm	287-180
Curved Jaw Grip Pliers	250 mm	287-250

Long Nose Grip Pliers

- chrome plated

Item	Length	Art. No.
Long Nose Grip Pliers	160 mm	288-160
Long Nose Grip Pliers	225 mm	288-225

C-Type Grip Clamps

- chrome plated

Item	Length	Art. No.
C-Type Grip Clamp	280 mm	281
C-Type Grip Clamp	460 mm	282

Grip Welding Clamp

- chrome plated

Item	Length	Art. No.
Grip Welding Pliers	230 mm	280

Grip Welding Pliers

- flexible copper plate, chrome plated
- flexible copper plate prevents welding with plier and burn through on panels

Item	Length	Art. No.
Grip Welding Pliers	225 mm	4780

Grip Welding Pliers

- jaw manufactured from special quality steel
- for spot welding in gaps, e.g. door openings
- for several consecutive spot welds within one clamping

Item	Length	Art. No.
Grip Welding Pliers	200 mm	5770

Grip Welding Pliers

- jaw manufactured from special quality steel
- wide jaw for aligning bodywork components
- specially suitable for shaping metal edges

Item	Length	Art. No.
Grip Welding Pliers	225 mm	5771

Grip Welding Pliers

- jaw manufactured from special quality steel
- for plug welding, e.g. side panels, door sills etc.
- specially suitable for shaping metal edges

Item	Length	Art. No.
Grip Welding Pliers	210 mm	5772

Grip Welding Pliers

- jaw manufactured from special quality steel
- for seam welding on U-shaped designs, e.g. engine bonnets, rear end components etc.
- also suitable for beaded plates in layers

Item	Length	Art. No.
Grip Welding Pliers	210 mm	5773

Grip Welding Pliers

- jaw manufactured from special quality steel
- for hard-to-reach areas, e.g. boot lids, doors, engine bonnets etc.
- very suitable for metal edges in layers

Item	Length	Art. No.
Grip Welding Pliers	195 mm	5774

Oil Filter Grip Wrench

- forged jaw, nickel plated

Item	Spread	Length	Art. No.
Oil Filter Grip Wrench	53 - 115 mm	230 mm	5710

Machine Table Clamp, 310 mm

- mounting holes for fixing on tables, workbenches and with T-slots
- quick-release lever for fast clamping and opening, ideal for repeated clamping
- T-handle for quick and easy adjustment of clamping force
- movable clamp jaw for damage-free fixing of workpieces
- for drilling, light milling, welding, gluing, carving etc.

Item	Length	Art. No.
Machine Table Clamp	310 mm	4796

Circlip Pliers

Circlip Plier, straight, external, 175 mm long

- for circlips with ø 19-60 mm
- special tip design ensures firm grip
- drop-forged according to DIN 5256
- titan-finish, insulated handles
- manufactured in Germany

Item	Description	Tips	Length	Art. No.
Circlip Pliers	for external circlips	straight type	175 mm	41150

Circlip Plier, bent, external, 175 mm long

- for circlips with ø 19-60 mm
- special tip design ensures firm grip
- drop-forged according to DIN 5256
- titan-finish, insulated handles
- manufactured in Germany

Item	Description	Tips	Length	Art. No.
Circlip Pliers	for external circlips	bent	175 mm	41151

Circlip Plier, straight, internal, 175 mm long

- for circlips with ø 19-60 mm
- special tip design ensures firm grip
- drop-forged according to DIN 5256
- titan-finish, insulated handles
- manufactured in Germany

Item	Description	Tips	Length	Art. No.
Circlip Pliers	for internal circlips	straight type	175 mm	41152

Circlip Plier, bent, internal, 175 mm long

- for circlips with ø 19-60 mm
- special tip design ensures firm grip
- drop-forged according to DIN 5256
- titan-finish, insulated handles
- manufactured in Germany

Item	Description	Tips	Length	Art. No.
Circlip Pliers	for internal circlips	bent	175 mm	41153

Circlip Pliers Set, 10 pcs.

- for internal and external circlips, straight and bent tips
- reversible tips

Content	Tips	Length	Art. No.
Circlip Pliers	straight, ø 1.0 mm	150 mm	*5788-101*
Circlip Pliers	bent 45°, ø 1.0 mm	150 mm	*5788-102*
Circlip Pliers	straight, ø 1.2 mm	150 mm	*5788-121*
Circlip Pliers	bent 45°, ø 1.2 mm	150 mm	*5788-122*
Circlip Pliers	straight, ø 1.8 mm	185 mm	*5788-181*
Circlip Pliers	bent 45°, ø 1.8 mm	185 mm	*5788-182*
Circlip Pliers	straight, ø 2.2 mm	235 mm	*5788-221*
Circlip Pliers	bent 45°, ø 2.2 mm	235 mm	*5788-222*
Awl		135 mm	*5788-01*
Extraction Hook		135 mm	*5788-02*

Item	pcs	Art. No.
Circlip Pliers Set	10	5788

Circlip Pliers Sets, 4 pcs.

- for internal and external circlips, straight and bent tips

Item	Length	pcs	Art. No.
Circlip Pliers Set	150 mm	4	5780
Circlip Pliers Set	175 mm	4	5781
Circlip Pliers Set	225 mm	4	5782
Circlip Pliers Set	300 mm	4	5783

Mini Circlip Pliers Set, 4 pcs.

- for internal and external circlips, straight and bent tips
- tips ø 1 mm
- chrome-molybdenum steel

Item	Length	pcs	Art. No.
Mini Circlip Pliers Set	75 mm	4	5779

Circlip Pliers

- for internal and external circlips
- 4 interchangeable tips: 2x straight, 1x 45° offset, 1x 90° offset

Item	Length	Art. No.
Circlip Pliers	160 mm	279A

Circlip Pliers

- for rings with flat ends
- PVC-dipped handles

Item	Length	Art. No.
Circlip Pliers	225 mm	4730

Circlip Pliers

- long reach for deep seated rings
- 90° offset tips
- length of tips 60 mm
- PVC-dipped handles

Item	Length	Art. No.
Circlip Pliers	185 mm	4740

Cutting and Separating

Bolt Cutters

- lacquered red finish, rubber handle
- replaceable and adjustable blades

Item	Length	Art. No.
Bolt Cutter	460 mm	70-460
Bolt Cutter	610 mm	70-610
Bolt Cutter	760 mm	70-760
Bolt Cutter	910 mm	70-910

Cable Cutter

- for cables up to ø 16 mm

Item	Length	Art. No.
Cable Cutter	220 mm	71

Wire Rope and Spring Wire Cutter

- for wire rope max. ø 5 mm
- for spring wire max. ø 1.5 mm

Item	Length	Art. No.
Wire Rope and Spring Wire Cutter	190 mm	1250

Plastic Pipe Cutter

- body manufactured from diecast aluminium
- replaceable, hardened blade made from stainless steel

Item	for Ø	Application	Art. No.
Plastic Pipe Cutter	6 - 35 mm	PE, PP and PVDF pipes	75

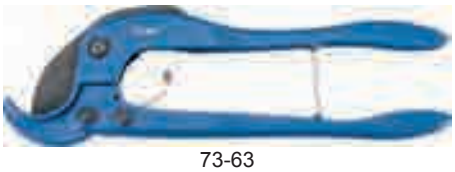
Plastic Pipe Cutters

- trigger operated

Item	for Ø	Application	Art. No.
Plastic Pipe Cutter	6 - 35 mm	PE, PP and PVDF pipes	73
Plastic Pipe Cutter	6 - 42 mm	PE, PP and PVDF pipes	73-42
Plastic Pipe Cutter	6 - 63 mm	PE, PP and PVDF pipes	73-63

73

73-42



73-63

Tin Snips

- toothed jaw

Item	Description	Length	Art. No.
Tin Snips	straight type	250 mm	387

Tin Snips

- forged
- toothed, inductive hardened blades

Item	Description	Length	Art. No.
Tin Snips	right-cut	250 mm	5790
Tin Snips	left-cut	250 mm	5795

Hand Nibbler

- for metal sheets max. 1.2 mm
- hardened, replaceable blade

Item	Length	Art. No.
Hand Nibbler	250 mm	382

382

accessory

Item	Art. No.
Spare Blade, for Hand Nibbler No. 382	383

383

VDE Insulated Tools

VDE Tool Set, 3/8", 34 pcs.

- ideal equipment for repair and maintenance work on hybrid and electric vehicles
- including terminal / cable end insulation covers with cross-clamp cut
- for working with voltages of up to 1.000V
- all tools with protective insulation according to DIN ISO EN 60900
- scope of delivery:
  reversible ratchet, VDE, 3/8", 45 teeth, with quick-release mechanism
  extension bar, VDE, 3/8", 150 mm, with quick-release mechanism
  sockets, VDE, 3/8", hexagon 7-17 mm
  adjustable wrench, VDE, clamping range 24 mm
  socket bit, VDE, 3/8", hexagon 4, 5, 6, 8 mm
  screwdriver, VDE, plain slot 2.5x75 mm, 4.0x100 mm
  screwdriver, VDE, cross slot PH1x80 mm, PH2x100 mm
  screwdriver, VDE, tx-star T15x100 mm, T20x100 mm, T25x125 mm, T30x150 mm
  side cutter, VDE, 160 mm
  long nose pliers, straight, VDE, 160 mm
  3 covers, VDE, inner-ø 14 mm x outer-ø 18 mm x 100 mm length
  3 covers, VDE, inner-ø 20 mm x outer-ø 24 mm x 100 mm length

Drive Tools / Accessory, 3/8"	
Reversible Ratchet, VDE, 3/8"	30201
Extension Bar, VDE, 3/8", 150 mm	30215
Miscellaneous Tools	
Adjustable Wrench, VDE, clamping range 24 mm	30237
Long Nose Pliers, straight, VDE, 160 mm	30727-176
Side Cutter, VDE, 160 mm	30727-170
Terminal / Cable End Insulated Cover, inner-ø 14 mm, 1 pcs.	30992
Terminal / Cable End Insulated Cover, inner-ø 20 mm, 1 pcs.	30994

Content					
hexagon		16 mm	30200-16	T25	30725-T25
3/8", standard		17 mm	30200-17	T30	30725-T30
8 mm	30200-08	Hexagon		Plain Slot	
7 mm	30200-07	3/8", standard		Screwdriver	
9 mm	30200-09	4 mm	30222-04	2.5 mm	30725-25
10 mm	30200-10	5 mm	30222-05	4.0 mm	30725-40
11 mm	30200-11	6 mm	30222-06	Cross Slot PH	
12 mm	30200-12	8 mm	30222-08	Screwdriver	
13 mm	30200-13	TX-Star T		PH1	30725-PH1
14 mm	30200-14	Screwdriver		PH2	30725-PH2
15 mm	30200-15	T15	30725-T15		
		T20	30725-T20		

Item	Size	Drive	pcs	Art. No.
VDE Tool Set	7-17 mm	3/8"	34	30034

Terminal / Cable End Insulated Covers, 100 mm long

- with cross clamp cut for better grip
- for covering terminals, cable ends and single wires when working on electric and hybrid vehicles as well as various high voltage applications
- VDE certified, insulation according to DIN ISO EN 60900

Item	Length	pcs	Art. No.
Terminal / Cable End Insulated Covers, 5 x each inner-ø 14 + 20 mm	100 mm	10	30990

Accessory

Item	Art. No.
Terminal / Cable End Insulated Cover, inner-ø 14 mm, 1 pcs.	30992
Terminal / Cable End Insulated Cover, inner-ø 20 mm, 1 pcs.	30994

Hexagon Sockets VDE

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

hexagon		10 mm	30200-10	15 mm	30200-15
3/8", standard		11 mm	30200-11	16 mm	30200-16
7 mm	30200-07	12 mm	30200-12	17 mm	30200-17
8 mm	30200-08	13 mm	30200-13		
9 mm	30200-09	14 mm	30200-14		

TX-Star Socket Bits, VDE

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Item	Profile	Size	Drive	Art. No.
Socket Bit	TX-Star T	T15	3/8"	30233-15
Socket Bit	TX-Star T	T20	3/8"	30233-20
Socket Bit	TX-Star T	T25	3/8"	30233-25
Socket Bit	TX-Star T	T30	3/8"	30233-30

Hexagon Socket Bits, VDE

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Item	Profile	Size	Drive	Art. No.
Socket Bit	Hexagon	4 mm	3/8"	30222-04
Socket Bit	Hexagon	5 mm	3/8"	30222-05
Socket Bit	Hexagon	6 mm	3/8"	30222-06
Socket Bit	Hexagon	8 mm	3/8"	30222-08

Reversible Ratchet, VDE, 3/8"

- 45 teeth, with quick-release mechanism
- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Item	Drive	Teeth	Art. No.
Reversible Ratchet	3/8"	45	30201

Extension Bar, VDE, 3/8", 150 mm

- with quick-release mechanism
- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Item	Drive	Length	Art. No.
Extension Bar	3/8"	150 mm	30215

Torque Wrench, VDE, 3/8", 10-50 Nm

- single actuation (only right-turn)
- with certificate of conformance and serial number
- scale graduation: 2.5 Nm, setting: 0.25 Nm
- with secondary scale in lbf ft
- rotary handle can be locked to prevent unintentional adjustment
- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Item	Drive	Measuring Range	Fine Scale	Tolerance	Art. No.
Torque Wrench	3/8"	10-50 Nm	0.5 Nm	+/- 4%	30950

Single Open End Spanner, VDE

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Spanners			
7 mm	30730-07	12 mm	30730-12
8 mm	30730-08	13 mm	30730-13
9 mm	30730-09	14 mm	30730-14
10 mm	30730-10	15 mm	30730-15
11 mm	30730-11	16 mm	30730-16

Adjustable Wrench, VDE, clamping range 24 mm

- with scale in mm for easy and precise adjustment
- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Item	Spread	Art. No.
Adjustable Wrench	24 mm	30237

Side Cutter, VDE, 160 mm

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Item	Length	Art. No.
Side Cutter	160 mm	30727-170

Long Nose Pliers, straight, VDE, 160 mm

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Item	Length	Art. No.
Long Nose Pliers	160 mm	30727-176

Long Nose Pliers, bent, VDE 160 mm

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Item	Length	Art. No.
Bent Nose Pliers	160 mm	30727-180

Cable Shears, VDE, 200 mm

- hardened double cutting edges with precision grinding
- for single and multiple stranded copper and aluminium cables
- smoother and cleaner cut without crushing the cable
- with pinch protection to prevent bruising
- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900
- Note: not suitable for steel wire and hard-drawn copper conductors

Item	Length	Art. No.
Cable Shears	200 mm	30727-171

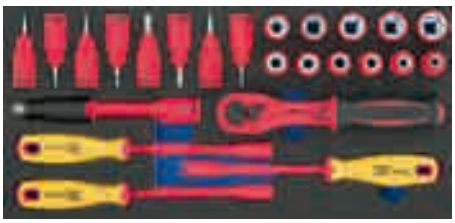
Screwdrivers, xcess performance, VDE

- for working with voltages of up to 1.000V
- protective insulated blade according to DIN ISO EN 60900

Item	Profile	Size	Blade Length	Art. No.
Screwdriver	Plain Slot	2.5 mm	75 mm	30725-25
Screwdriver	Plain Slot	3.0 mm	100 mm	30725-30
Screwdriver	Plain Slot	3.5 mm	100 mm	30725-35
Screwdriver	Plain Slot	4.0 mm	100 mm	30725-40
Screwdriver	Cross Slot PH	PH1	80 mm	30725-PH1
Screwdriver	Cross Slot PH	PH2	80 mm	30725-PH2
Screwdriver	TX-Star T	T15	100 mm	30725-T15
Screwdriver	TX-Star T	T20	100 mm	30725-T20
Screwdriver	TX-Star T	T25	125 mm	30725-T25
Screwdriver	TX-Star T	T30	150 mm	30725-T30
Screwdriver	hexagon	6 mm	125 mm	30725-H06
Screwdriver	hexagon	7 mm	125 mm	30725-H07
Screwdriver	hexagon	8 mm	125 mm	30725-H08

VDE Socket Set in Foam 1/3, 24 pcs., 3/8"

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900



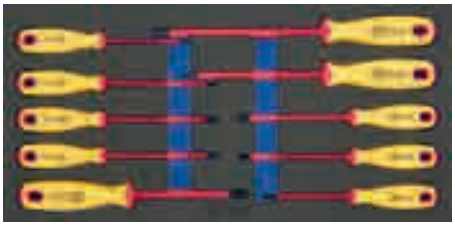
Content		14 mm	30200-14	4 mm	30222-04
hexagon		15 mm	30200-15	5 mm	30222-05
3/8", standard		16 mm	30200-16	6 mm	30222-06
7 mm	30200-07	17 mm	30200-17	8 mm	30222-08
8 mm	30200-08	Screwdriver		TX-Star T	
9 mm	30200-09	6 mm	30725-H06	3/8", standard	
10 mm	30200-10	7 mm	30725-H07	T15	30233-15
11 mm	30200-11	8 mm	30725-H08	T20	30233-20
12 mm	30200-12	Hexagon		T25	30233-25
13 mm	30200-13	3/8", standard		T30	30233-30

Drive Tools / Accessory, 3/8"	
Reversible Ratchet, VDE, 3/8"	30201
Extension Bar, VDE, 3/8", 150 mm	30215

Item	Profile	Drive	pcs	Art. No.
Socket Set in Foam	hexagon, Hexagon, TX-Star T	3/8"	24	30710

VDE Screwdriver Set in Foam 1/3, 10 pcs.

- for working with voltages of up to 1.000V
- protective insulated blade according to DIN ISO EN 60900



Content		T30	30725-T30	4.0 mm	30725-40
TX-Star T		Plain Slot		Cross Slot PH	
Screwdriver		Screwdriver		Screwdriver	
T15	30725-T15	2.5 mm	30725-25	PH1	30725-PH1
T20	30725-T20	3.0 mm	30725-30	PH2	30725-PH2
T25	30725-T25	3.5 mm	30725-35		

Item	Profile	pcs	Art. No.
Screwdriver Set in Foam	Plain Slot, Cross Slot PH, TX-Star T	10	30725

VDE Open End Spanner Set in Foam 1/3, 7-17 mm

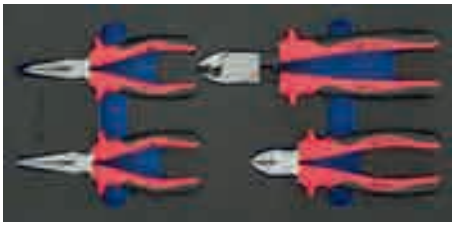
- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Content		10 mm	30730-10	15 mm	30730-15
Spanners		11 mm	30730-11	16 mm	30730-16
7 mm	30730-07	12 mm	30730-12	17 mm	30730-17
8 mm	30730-08	13 mm	30730-13		
9 mm	30730-09	14 mm	30730-14		

Item	Size	pcs	Art. No.
Open End Spanner Set in Foam	7-17 mm	11	30730

VDE Pliers Set in Foam 1/3, 4 pcs.

- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900



Content	Length	Art. No.
Long Nose Pliers	160 mm	30727-176
Bent Nose Pliers	160 mm	30727-180
Side Cutter	160 mm	30727-170
Cable Shears	200 mm	30727-171

Item	pcs	Art. No.
Pliers in Foam	4	30727

hammers

German Pattern Machinist Hammers

- with handle protection and round wedge

Item	Head Weight	Art. No.
Machinist Hammer	100 g	55EX-100
Machinist Hammer	200 g	55EX-200
Machinist Hammer	300 g	55EX-300
Machinist Hammer	400 g	55EX-400
Machinist Hammer	500 g	55EX-500
Machinist Hammer	800 g	55EX-800
Machinist Hammer	1000 g	55EX-1000
Machinist Hammer	1500 g	55EX-1500
Machinist Hammer	2000 g	55EX-2000

Machinist Hammers, with fibreglass shaft

- forged
- sturdy head fixing
- rubber-coated handles

Item	Head Weight	Art. No.
Machinist Hammer, with fibreglass handle	100 g	2901
Machinist Hammer, with fibreglass handle	300 g	2903
Machinist Hammer, with fibreglass handle	500 g	2905
Machinist Hammer, with fibreglass handle	800 g	2908
Machinist Hammer, with fibreglass handle	1000 g	2910
Machinist Hammer, with fibreglass handle	1500 g	2915
Machinist Hammer, with fibreglass handle	2000 g	2920

Machinist Hammer Set, fibreglass shaft, 3 pcs.

- forged
- sturdy head fixing
- rubber-coated handles

Content	Head Weight	Art. No.
Machinist Hammer, with fibreglass handle	300 g	2903
Machinist Hammer, with fibreglass handle	500 g	2905
Machinist Hammer, with fibreglass handle	800 g	2908

Item	Head Weight	pcs	Art. No.
Machinist Hammer Set	300 / 500 / 800 gr.	3	2900

Stoning Hammer, 1.25 kg

Item	Length	Head Weight	Art. No.
Stoning Hammer	280 mm	1.25 kg	2946

Sledge Hammer, fibreglass shaft, 5 kg

Item	Length	Head Weight	Art. No.
Sledge Hammer	890 mm	5.0 kg	2948

Panel Beating Hammer

- with ball-shaped head

Item	Head Weight	Art. No.
Panel Beating Hammer	680 g	10112

Soft Faced Hammer

- shock-resistant faces made from Cellidor

Item	Head-Ø	Art. No.
Soft Faced Hammer	22 mm	57-22
Soft Faced Hammer	27 mm	57-27
Soft Faced Hammer	32 mm	57-32
Soft Faced Hammer	35 mm	57-35

Striking Tools, miscellaneous

Punch and Chisel Set, soft grip, 13 pcs.

- softgrip for impact damping
- chrome-molybdenum steel
- pin punch with ø 8, 10, 12, 14, 16 mm, 180 mm long
- centre punch ø 4 x 10 mm, 8 x 12 mm, 185 mm long
- flat chisel 16 x 10 mm, 170 mm long; 18 x 12 mm, 190 mm long; 20 x 14 mm, 210 mm long; 24 x 16 mm, 220 mm long

Content	Ø	Length	Description	Art. No.
Pin Punch XL, soft grip	8 mm	250 mm		2953
Pin Punch XL, soft grip	10 mm	250 mm		2954
Pin Punch XL, soft grip	12 mm	250 mm		2955
Pin Punch XL, soft grip	14 mm	250 mm		2956
Pin Punch XL, soft grip	16 mm	250 mm		2957
Centre Punch, soft grip	4 mm	185 mm		2974
Centre Punch, soft grip	8 mm	185 mm		2973
Flat Chisel, soft grip		170 mm	16 x 10 mm	2976
Flat Chisel, soft grip		190 mm	18 x 12 mm	2978
Flat Chisel, soft grip		210 mm	20 x 14 mm	2977
Flat Chisel, soft grip		220 mm	24 x 16 mm	2979

Item	pcs	Art. No.
Parallel Pin Punch Set	11	2958A

Pin Punch and Chisel Set, soft grip, 10 pcs.

- softgrip for impact damping
- chrome-molybdenum steel
- pin punch with ø 3 - 4 - 5 - 6 - 7 - 8 mm, 180 mm long
- centre punch ø 4 x 10 mm, 185 mm long
- cross chisel 5 x 10 mm, 170 mm long
- flat chisel 16 x 10 mm, 170 mm long
- flat chisel 20 x 14 mm, 210 mm long

Content	Ø	Length	Description	Art. No.
Pin Punch, soft grip	3 mm	180 mm		2963
Pin Punch, soft grip	4 mm	180 mm		2964
Pin Punch, soft grip	5 mm	180 mm		2965
Pin Punch, soft grip	6 mm	180 mm		2966
Pin Punch, soft grip	7 mm	180 mm		2967
Pin Punch, soft grip	8 mm	180 mm		2968
Centre Punch, soft grip	4 mm	185 mm		2974
Cross Chisel, soft grip		170 mm	5 x 10 mm	2975
Flat Chisel, soft grip		170 mm	16 x 10 mm	2976
Flat Chisel, soft grip		210 mm	20 x 14 mm	2977

Item	pcs	Art. No.
Parallel Pin Punch Set	10	2960

Pin Punch Set, soft grip, 6 pcs.

- softgrip for impact damping
- suitable for wall mounting
- chrome-molybdenum steel
- ø 3, 4, 5, 6, 7, 8 mm, 180 mm long

Content	Ø	Length	Art. No.
Pin Punch, soft grip	3 mm	180 mm	2963
Pin Punch, soft grip	4 mm	180 mm	2964
Pin Punch, soft grip	5 mm	180 mm	2965
Pin Punch, soft grip	6 mm	180 mm	2966
Pin Punch, soft grip	7 mm	180 mm	2967
Pin Punch, soft grip	8 mm	180 mm	2968

Item	Ø	Length	pcs	Art. No.
Parallel Pin Punch Set	3, 4, 5, 6, 7, 8 mm	180 mm	6	2959

Pin Punch, soft grip

2963

2968

- softgrip for impact damping
- chrome-molybdenum steel

Item	Ø	Length	Art. No.
Pin Punch, soft grip	2 mm	180 mm	2962
Pin Punch, soft grip	3 mm	180 mm	2963
Pin Punch, soft grip	4 mm	180 mm	2964
Pin Punch, soft grip	5 mm	180 mm	2965
Pin Punch, soft grip	6 mm	180 mm	2966
Pin Punch, soft grip	7 mm	180 mm	2967
Pin Punch, soft grip	8 mm	180 mm	2968

Pin Punch XL, soft grip

2953

2957

- softgrip for impact damping
- chrome-molybdenum steel

Item	Ø	Length	Art. No.
Pin Punch XL, soft grip	8 mm	250 mm	2953
Pin Punch XL, soft grip	10 mm	250 mm	2954
Pin Punch XL, soft grip	12 mm	250 mm	2955
Pin Punch XL, soft grip	14 mm	250 mm	2956
Pin Punch XL, soft grip	16 mm	250 mm	2957

Chisel, soft grip

2978

2975

- softgrip for impact damping
- chrome-molybdenum steel

Item	Description	Length	Art. No.
Cross Chisel, soft grip	5 x 10 mm	170 mm	2975
Flat Chisel, soft grip	12 x 10 mm	160 mm	2971
Flat Chisel, soft grip	16 x 10 mm	170 mm	2976
Flat Chisel, soft grip	18 x 12 mm	190 mm	2978
Flat Chisel, soft grip	20 x 14 mm	210 mm	2977
Flat Chisel, soft grip	24 x 16 mm	220 mm	2979

Centre Punch, soft grip

2972

2973

- softgrip for impact damping
- chrome-molybdenum steel

Item	Ø	Length	Art. No.
Centre Punch, soft grip	2.5 mm	185 mm	2972
Centre Punch, soft grip	4 mm	185 mm	2974
Centre Punch, soft grip	8 mm	185 mm	2973

Automatic Center Punch

- impact force adjustable by turning black handle

Item	Description	Art. No.
Automatic Center Punch	striking force 15-25 kg	223

Parallel Pin Punch Set, 6 pcs., 150 mm, ø 3-8 mm

- supplied in plastic pouch, chrome-vanadium-steel

Item	Ø	Length	pcs	Art. No.
Parallel Pin Punch Set	3, 4, 5, 6, 7, 8 mm	150 mm	6	659

Chisel and Punch Set, 15 pcs.

- interchangeable inserts, e.g. for mortising jobs
- 1 holder with quick release coupling and protective grip
- 7 flat chisels
- 1 cape chisel
- 2 taper punches
- 2 centre punches
- 2 pin punches

Item	pcs	Art. No.
Chisel and Punch Set	15	4930

Pin Punch and Chisel Set, 28 pcs.

- 7 pin punches: ø 1.6 x 100, 2.4 x 105, 3.2 x 120, 4 x 125, 4.8 x 130, 6.3 x 145, 9.5 x 200 mm
- 8 conical pin punches: ø 2.4 x 130, 3.2 x 145, 3.2 x 150, 4 x 150, 4.8 x 160, 4.8 x 250, 6.3 x 170, 9.5 x 250 mm
- 4 centre punches: ø 3.2 x 125, 4 x 145, 4.8 x 150, 6.3 x 200 mm
- 9 air-hardened chisels: 9.5 x 140, 12.7 x 150, 12.7 x 170, 15.8 x 165, 15.8 x 175, 19 x 200, 21 x 200, 22 x 250, 25 x 250 mm
- chrome-vanadium-steel and carbon steel

Item	pcs	Art. No.
Pin Punch and Chisel Set	28	2990

Pin Punch and Chisel Set, 8 pcs.

- 5 pin punches: ø 3, 4, 5, 6 and 8 mm, 150 mm long
- 1 flat chisel: 15 x 150 mm
- 1 cross chisel: 4 x 150 mm
- 1 centre punch: 3 x 150 mm
- chrome-vanadium-steel

Item	Length	pcs	Art. No.
Parallel Pin Punch Set	150 mm	8	2991

Pin Punch and Chisel Set, 6 pcs.

- 2 conical pin punches: ø 3 x 10 x 120, 4 x 12 x 150 mm
- 2 flat chisels: 12 x 10 x 130, 15 x 12 x 150 mm
- 1 cross chisel: 5 x 10 x 130 mm
- 1 centre punch: 4 x 10 x 120 mm
- in practical plastic holder
- chrome-vanadium-steel

Item	pcs	Art. No.
Pin Punch and Chisel Set	6	2995

Center Punch Set, 6 pcs.

- 6 centre punches: ø 3, 4, 5, 6, 7, 8 mm
- in practical plastic holder
- chrome-vanadium-steel

Item	Length	pcs	Art. No.
Center Punch Set	150 mm	6	2997

Parallel Pin Punch Set, 6 pcs.

- 6 parallel pin punches: ø 3, 4, 5, 6, 7, 8 mm
- in practical plastic holder
- chrome-vanadium-steel

Item	Length	pcs	Art. No.
Parallel Pin Punch Set	150 mm	6	2996

Hollow Punch Set, 10 pcs., 2.5-12 mm

Item	Ø	pcs	Art. No.
Hollow Punch Set	2.5, 3, 4, 5, 6, 7, 8, 10, 11, 12 mm	10	8580

Hollow Punch Sets

Item	Ø	pcs	Art. No.
Hollow Punch Set	3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 16 mm	12	80-12
Hollow Punch Set	3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 16, 19, 22, 25 mm	15	80-15

Hollow Punch Set, 14 pcs.

- designed to cut clean holes in all kinds of sealing materials, especially in the automotive sector, with spring-loaded centering pin
- 1 holder with protective grip
- 13 exchangeable punches

Item	Ø	pcs	Art. No.
Hollow Punch Set	5, 6, 8, 10, 11, 13, 16, 19, 22, 25, 28, 32, 35 mm	14	4714

Letter Stamp Sets

- letter style complies with DIN 1451, for hammering on steel and iron

Item	Letter Height	pcs	Art. No.
Letter Stamp Set	3 mm	27	50-3
Letter Stamp Set	4 mm	27	50-4
Letter Stamp Set	5 mm	27	50-5
Letter Stamp Set	6 mm	27	50-6
Letter Stamp Set	8 mm	27	50-8
Letter Stamp Set	10 mm	27	50-10
Letter Stamp Set	12 mm	27	50-12

Number Stamp Sets

- number style complies with DIN 1451, for hammering on steel and iron

Item	Letter Height	pcs	Art. No.
Number Stamp Set	3 mm	9	51-3
Number Stamp Set	4 mm	9	51-4
Number Stamp Set	5 mm	9	51-5
Number Stamp Set	6 mm	9	51-6
Number Stamp Set	8 mm	9	51-8
Number Stamp Set	10 mm	9	51-10
Number Stamp Set	12 mm	9	51-12

Impact Spindle, high loosening torque

- common thread UN 1.1/2" x 16, can be combined with many pullers
- ideal substitute for hydraulic spindles when using a torch, because the torch can damage sealings of hydraulic spindle
- application: screw impact spindle into suitable yoke and tighten firmly with impact key; then hit spindle head with hammer to loosen tight connection

Item	Description	Art. No.
Impact Spindle	with impact key and mandrel	5502

recommended accessory for

Item	Art. No.
Hydraulic Puller Set, universal, 10t	5515

Nut Splitter, open type

- 360° rotatable splitting pin
- forged

Item	Spread	Art. No.
Nut Splitter	4.5 - 25 mm	115EX

Nut Splitter

Item	Spread	pcs	Art. No.
Nut Splitter	10 - 24 mm		115
Nut Splitter Set	6 - 24 mm	2	116

Bit Assortment with Impact Driver, 14 pcs., hexagon with oversize

- oversized hexagon bits in 5.1, 6.1, 7.1 and 8.1 mm
- for worn-out screws:
  Use hammer to punch oversized bit into screw head. Then use impact driver or 10 mm spanner for loosening.
- conical shape for better fittting into screw head
- incl. impact driver for powerful loosening
- ideal for starter, brake caliper, brake disc, pulleys etc.

Content	Profile	Size	Drive	Length	Art. No.
Bit	Hexagon	5.1 mm	10 mm hex	40 mm	18022-X5
Bit	Hexagon	6.1 mm	10 mm hex	40 mm	18022-X6
Bit	Hexagon	7.1 mm	10 mm hex	40 mm	18022-X7
Bit	Hexagon	8.1 mm	10 mm hex	40 mm	18022-X8
Bit	TX-Star T	T40	10 mm hex	75 mm	18073-40
Bit	Plain Slot	8 mm	8 mm hex	30 mm	*17077-8*
Bit	Plain Slot	10 mm	8 mm hex	30 mm	*17077-10*
Bit	Plain Slot	10 mm	8 mm hex	65 mm	*17177-10*
Bit	Cross Slot PH	PH2	8 mm hex	30 mm	*17088-2*
Bit	Cross Slot PH	PH3	8 mm hex	30 mm	*17088-3*
Bit	Cross Slot PH	PH3	8 mm hex	65 mm	*17188-3*

Item	Drive	pcs	Art. No.
Bit Assortment with Impact Driver	1/2"	14	2102

Drive Tools / Accessory, 1/2"	
Impact Driver, metal handle	*224-01*
Bit Holder, 1/2", for 10 mm bits	20620
Bit Holding Socket, 1/2", for 8 mm bits	*20621KR*

Impact Driver, reversible left / right, 1/2", incl. 6 bits

Content	Drive	Profile	Size	Length	Art. No.
Impact Driver, non-slip rubber handle	1/2"				*222-01*
Bit Holder	1/2"				*20621KR*
Bit	8 mm hex	Plain Slot	8 mm	30 mm	*17077-8*
Bit	8 mm hex	Plain Slot	10 mm	30 mm	*17077-10*
Bit	8 mm hex	Plain Slot	10 mm	65 mm	*17177-10*
Bit	8 mm hex	Cross Slot PH	PH2	30 mm	*17088-2*
Bit	8 mm hex	Cross Slot PH	PH3	30 mm	*17088-3*
Bit	8 mm hex	Cross Slot PH	PH3	65 mm	*17188-3*

Item	Drive	Bits	Plain Slot	Cross Slot PH	Art. No.
Impact Driver	1/2"	8 mm	8, 10 mm	PH2, 3	222

Impact Driver, reversible left / right, 1/2", incl. 6 bits

Content	Drive	Profile	Size	Length	Art. No.
Impact Driver, metal handle	1/2"				*224-01*
Bit Holder	1/2"				*20621KR*
Bit	8 mm hex	Plain Slot	8 mm	30 mm	*17077-8*
Bit	8 mm hex	Plain Slot	10 mm	30 mm	*17077-10*
Bit	8 mm hex	Plain Slot	10 mm	65 mm	*17177-10*
Bit	8 mm hex	Cross Slot PH	PH2	30 mm	*17088-2*
Bit	8 mm hex	Cross Slot PH	PH3	30 mm	*17088-3*
Bit	8 mm hex	Cross Slot PH	PH3	65 mm	*17188-3*

Item	Drive	Bits	Plain Slot	Cross Slot PH	Art. No.
Impact Driver	1/2"	8 mm	8, 10 mm	PH2, 3	224

Tap and Die

Tap and Die Set, HSS-G M2 / HSS-E Cobalt 5%, 41 pcs., M3-12

- hand taps, 3 pcs., DIN 352, metric, M3, 4, 5, 6, 8, 10, 12
- dies, DIN 223 (EN 22568), metric, M3, 4, 5, 6, 8, 10, 12
- core hole drills, HSS-E Co5, ø 2.5, 3.3, 4.2, 5.0, 6.8, 8.5, 10.2 mm
- countersinks, HSS-G M2, DIN335-C, 90°, ø 10.4 + 16.5 mm
- adjustable tap wrench, DIN 1814, 180 mm, No. 1.1/2, M1 - M12
- die holder, DIN 225 (EN 22568), 25 x 9
- screwpitch gauge, 12 sizes
- screwdriver, plain slot 5.5 mm

Content	Ø	Material	Size	Art. No.
HSS Twist Drill	2.5 mm	HSS-E Co5		39611-025
HSS Twist Drill	3.3 mm	HSS-E Co5		39611-033
HSS Twist Drill	4.2 mm	HSS-E Co5		39611-042
HSS Twist Drill	5.0 mm	HSS-E Co5		39611-050
HSS Twist Drill	6.8 mm	HSS-E Co5		39611-068
HSS Twist Drill	8.5 mm	HSS-E Co5		39611-085
HSS Twist Drill	10.2 mm	HSS-E Co5		39611-102
Countersink	10.4 mm	HSS-G M2		9669-104
Countersink	16.5 mm	HSS-G M2		9669-165
Hand Tap Set		HSS-G M2	M3 x 0.5	9660-03
Hand Tap Set		HSS-G M2	M4 x 0.7	9660-04
Hand Tap Set		HSS-G M2	M5 x 0.8	9660-05
Hand Tap Set		HSS-G M2	M6 x 1.0	9660-06
Hand Tap Set		HSS-G M2	M8 x 1.25	9660-08
Hand Tap Set		HSS-G M2	M10 x 1.5	9660-10
Hand Tap Set		HSS-G M2	M12 x 1.75	9660-12
Die		HSS-G M2	M3 x 0.5	9666-03
Die		HSS-G M2	M4 x 0.7	9666-04
Die		HSS-G M2	M5 x 0.8	9666-05
Die		HSS-G M2	M6 x 1.0	9666-06
Die		HSS-G M2	M8 x 1.25	9666-08
Die		HSS-G M2	M10 x 1.5	9666-10
Die		HSS-G M2	M12 x 1.75	9666-12

Item	Size	pcs	Art. No.
Tap and Die Set	M3 - M12	41	39660

Miscellaneous Tools	
Die Holder, DIN 225, 210 mm lang, 25x9 mm, M3-M12	9690-01
Tap Wrench, DIN 1814, 175 mm, M3-M12	9691-01
Screwdriver, plain slot 5.5 mm	*9690-09*
Screwpitch Gauge, 12 blades, 0.5-1.75 mm	*39660-184*

Tap and Die Sets, 32 pcs.

- metric M3 - M12, in strong metal case
- each size 1 set hand taps, 3 pcs. M3, 4, 5, 6, 8, 10, 12
- each size 1 die M3, 4, 5, 6, 8, 10, 12
- 1 tap wrench M3 - M12
- 1 die holder 25 x 9
- 1 screwpitch gauge
- 1 screwdriver

Item	Size	Material	pcs	Art. No.
Tap and Die Set	M3 - M12	tungsten steel	32	145
Tap and Die Set	M3 - M12	HSS	32	148

Tap and Die Set, 110 pcs.

- metric M2 - M18, normal and fine thread
- each size 1 die + 2 taps:
  M2 x 0.40, M3 x 0.50, M4 x 0.70, M5 x 0.80, M6 x 0.75, M6 x 1.00, M7 x 0.75, M7 x 1.00, M8 x 0.75, M8 x 1.00, M8 x 1.25, M9 x 0.75, M9 x 1.00, M9 x 1.25, M10 x 0.75, M10 x 1.00, M10 x 1.25, M10 x 1.50, M11 x 0.75, M11 x 1.00, M11 x 1.25, M11 x 1.50, M12 x 0.75, M12 x 1.00, M12 x 1.25, M12 x 1.50, M12 x 1.75, M14 x 1.00, M14 x 1.25, M14 x 1.50, M14 x 2.00, M16 x 1.00, M16 x 1.50, M16 x 2.00, M18 x 1.50
- accessory:
  2x die holder M25 and M38
  2x tap wrench M3-M12 and M6-M20
  1x T-handle for taps

Item	Size	Material	pcs	Art. No.
Tap and Die Set	M2 - M18	tungsten steel	110	144

Tap and Die Set, titanium coated, 45 pcs.

- metric M6 - M24, normal and fine thread
- each size 1 tap + 1 die:
  M6 x 0.75, M6 x 1.00, M8 x 1.00, M8 x 1.25, M10 x 1.25, M10 x 1.50, M12 x 1.50, M12 x 1.75, M14 x 1.50, M14 x 2.00, M16 x 1.50, M16 x 2.00, M18 x 1.50, M18 x 2.50, M20 x 1.50, M20 x 2.50, M22 x 1.50, M22 x 2.50, M24 x 1.50, M24 x 3.00
- accessory:
  die holder with reducer
  tap wrench M6 - 24
  t-handle for taps
  screwdriver

Item	Size	Material	pcs	Art. No.
Tap and Die Set	M6 - M24	tungsten steel, titanium coated	45	9670

Tap and Die Set, 45 pcs.

- metric M6 - M24, normal and fine thread
- each size 1 tap + 1 die:
  M6 x 0.75, M6 x 1.00, M8 x 1.00, M8 x 1.25, M10 x 1.25, M10 x 1.50, M12 x 1.50, M12 x 1.75, M14 x 1.50, M14 x 2.00, M16 x 1.50, M16 x 2.00, M18 x 1.50, M18 x 2.50, M20 x 1.50, M20 x 2.50, M22 x 1.50, M22 x 2.50, M24 x 1.50, M24 x 3.00
- accessory:
  die holder with reducer
  tap wrench M6 - 24
  t-handle for taps
  screwdriver

Item	Size	Material	pcs	Art. No.
Tap and Die Set	M6 - M24	tungsten steel	45	149

Tap and Die Set, 45 pcs.

- inch 1/4" - 1", normal and fine thread
- each size 1 die + 1 tap:
  1/4NF28, 1/4NC20, 5/16NF24, 5/16NC18, 3/8NF24, 3/8NC16, 7/16NF20, 7/16NC14, 1/2NF20, 1/2NC13, 9/16NF18, 9/16NC12, 5/8NF18, 5/8NC11, 3/4NF16, 3/4NC10, 7/8NF14, 7/8NC9 1NF14, 1NC8
- accessory:
  die holder with reducer
  tap wrench
  t-handle for taps
  screwdriver

Item	Size	Material	pcs	Art. No.
Tap and Die Set	1/4 - 1"	tungsten steel	45	149Z

Tap and Drill Set, 15 pcs., HSS-G, M3-M12 / 2.5-10.2 mm

- short machine tap, metric, M3, 4, 5, 6, 8, 10, 12
- core hole drill, HSS-G, black-oxide, ø 2.5, 3.3, 4.2, 5.0, 6.8, 8.5, 10.2 mm
- adjustable tap wrench, DIN 1814, 180 mm, No. 1.1/2, M1 - M12

Item	Ø	Material	pcs	Art. No.
Tap and Drill Set	2.5 - 10.2 mm	HSS-G	15	9651

Tap and Drill Set, 15 pcs., HSS, M3-M12 / 2.5-10.2 mm

- short machine tap, metric, M3, 4, 5, 6, 8, 10, 12
- core hole drill, HSS, ø 2.5, 3.3, 4.2, 5.0, 6.8, 8.5, 10.2 mm
- adjustable tap wrench, DIN 1814, 180 mm, No. 1.1/2, M1 - M12

Item	Ø	Material	pcs	Art. No.
Tap and Drill Set	2.5 - 10.2 mm	HSS	15	9650

Core Hole Twist Drill and Tap Bit Set, 16 pcs., 1/4" hex, M4-12

- perfect for hard-to-reach areas
- extra short twist drill and tap bits with 1/4" hex shank
- space saving micro reversible bit ratchet
- includes 2 bit holders to extend the drills when required

Content	Ø	Drive	Length	Art. No.
Twist Drill Bit	3.3 mm	1/4" hex	38 mm	39640-33
Twist Drill Bit	4.2 mm	1/4" hex	45 mm	39640-42
Twist Drill Bit	5.0 mm	1/4" hex	50 mm	39640-50
Twist Drill Bit	6.8 mm	1/4" hex	50 mm	39640-68
Twist Drill Bit	8.5 mm	1/4" hex	53 mm	39640-85
Twist Drill Bit	10.2 mm	1/4" hex	53 mm	39640-102
Tap Bit	M4x0.7	1/4" hex	37 mm	39645-04
Tap Bit	M5x0.8	1/4" hex	36 mm	39645-05
Tap Bit	M6x1.0	1/4" hex	39 mm	39645-06
Tap Bit	M8x1.25	1/4" hex	40 mm	39645-08
Tap Bit	M10x1.5	1/4" hex	41 mm	39645-10
Tap Bit	M12x1.75	1/4" hex	42 mm	39645-12

Item	Drive	Material	pcs	Art. No.
Core Hole Twist Drill and Tap Bit Set	1/4" hex	HSS-G M2	16	39602

Drive Tools / Accessory, 1/4"	
Micro Bit Reversible Ratchet, with finger disc	1221
Adapter, 1/4" square x 1/4" hexagon	*20630*
Bit Holder, with quick-change chuck, for 1/4" bits, length 67 mm	21261
Bit Holder, with quick-change chuck, for 1/4" bits, length 150 mm	21262

Combined Drill and Tap Set, HSS-G, 7 pcs., M3-M10

- 3-in-1: core drilling, thread cutting, deburring and countersink
- 1 adapter, 1/4" hex, for 1/4" bits
- M3x0.5 mm, M4x0.7 mm, M5x0.8 mm, M6x1.0 mm, M8x1.25 mm, M10x1.5 mm

Item	Drive	Ø	Material	pcs	Art. No.
Combined Drill and Tap Set	1/4" hex	M3 - M10	HSS-G	7	39655

Combined Drill and Tap Set, HSS-G, 7 pcs., M3-M10

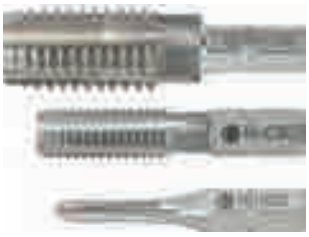
- 3-in-1: core drilling, thread cutting, deburring and countersink
- 1 adapter, 1/4" hex, for 1/4" bits
- M3x0.5 mm, M4x0.7 mm, M5x0.8 mm, M6x1.0 mm, M8x1.25 mm, M10x1.5 mm

Item	Drive	Ø	Material	pcs	Art. No.
Combined Drill and Tap Set	1/4" hex	M3 - M10	HSS-G	7	9655

Short Machine Tap, HSS-G M2, DIN352

Item	Size	Material	Art. No.
Short Machine Tap	M3 x 0.5	HSS-G M2	9663-03
Short Machine Tap	M4 x 0.7	HSS-G M2	9663-04
Short Machine Tap	M5 x 0.8	HSS-G M2	9663-05
Short Machine Tap	M6x1.0	HSS-G M2	9663-06
Short Machine Tap	M8x1.25	HSS-G M2	9663-08
Short Machine Tap	M10x1.5	HSS-G M2	9663-10
Short Machine Tap	M12x1.75	HSS-G M2	9663-12

Tap Bit, 1/4" hex shank, HSS-G M2



Item	Drive	Ø	Length	Art. No.
Tap Bit	1/4" hex	M4x0.7	37 mm	39645-04
Tap Bit	1/4" hex	M5x0.8	36 mm	39645-05
Tap Bit	1/4" hex	M6x1.0	39 mm	39645-06
Tap Bit	1/4" hex	M8x1.25	40 mm	39645-08
Tap Bit	1/4" hex	M10x1.5	41 mm	39645-10
Tap Bit	1/4" hex	M12x1.75	42 mm	39645-12

Hand Tap Sets, 3 pcs.

- DIN 352, in plastic box

Item	Size	Material	pcs	Art. No.
Hand Tap Set	M3 x 0.5	HSS-G M2	3	9660-03
Hand Tap Set	M4 x 0.7	HSS-G M2	3	9660-04
Hand Tap Set	M5 x 0.8	HSS-G M2	3	9660-05
Hand Tap Set	M6 x 1.0	HSS-G M2	3	9660-06
Hand Tap Set	M8 x 1.25	HSS-G M2	3	9660-08
Hand Tap Set	M10 x 1.5	HSS-G M2	3	9660-10
Hand Tap Set	M12 x 1.75	HSS-G M2	3	9660-12

Ratchet T-type Tap Wrenches

- reversible left / right, for taps

Item	Size	Length	Art. No.
Ratchet T-type Tap Wrench	M3 - M10	85 mm	159-1
Ratchet T-type Tap Wrench	M5 - M12	105 mm	159-2

Tap Wrenches, adjustable

- DIN 1814, cast zinc, hardened jaw for taps

Item	Size	Length	Art. No.
Tap Wrench	M1 - M8	130 mm	157-0
Tap Wrench	M1 - M10	175 mm	157-1
Tap Wrench	M1 - M12	175 mm	157-1.5
Tap Wrench	M4 - M12	280 mm	157-2

Tap Holder Set, 10 pcs., 1/4+3/8"

- for taps with external square drive 2.7 - 8.5 mm (corresponds to approx. M1.5 - M12 or 1/16 - 1/2" NF/NC)
- to be operated with ratchet, sliding t-bar or any other drive tools
- especially useful for reaching deep spaces when combined with an extension bar
- strong magnet holds taps firmly in place

Content	Profile	Size	Drive	Art. No.
Tap Holder	Square	2.7 mm	1/4"	*9678-01*
Tap Holder	Square	3.3 mm	1/4"	*9678-02*
Tap Holder	Square	4.0 mm	1/4"	*9678-03*
Tap Holder	Square	4.5 mm	1/4"	*9678-04*
Tap Holder	Square	5.0 mm	1/4"	*9678-04A*
Tap Holder	Square	5.6 mm	1/4"	*9678-04B*
Tap Holder	Square	6.4 mm	3/8"	*9678-05*
Tap Holder	Square	7.1 mm	3/8"	*9678-06*
Tap Holder	Square	7.5 mm	3/8"	*9678-07*
Tap Holder	Square	8.5 mm	3/8"	*9678-08*

Item	Drive	pcs	Art. No.
Tap Holder Set	1/4+3/8"	10	9678

Dies

- DIN 223, in plastic box

Item	Size	Material	Art. No.
Die	M3 x 0.5	HSS-G M2	9666-03
Die	M4 x 0.7	HSS-G M2	9666-04
Die	M5 x 0.8	HSS-G M2	9666-05
Die	M6 x 1.0	HSS-G M2	9666-06
Die	M8 x 1.25	HSS-G M2	9666-08
Die	M10 x 1.5	HSS-G M2	9666-10
Die	M12 x 1.75	HSS-G M2	9666-12

Die Holders

- DIN 225 (DIN EN 22568), cast zinc, for round dies

Item	Size	Ø	Length	Art. No.
Die Holder	M3 - M4	20 x 5 mm	190 mm	158-1
Die Holder	M4.5 - M6	20 x 7 mm	190 mm	158-2
Die Holder	M7 - M9	25 x 9 mm	210 mm	158-3
Die Holder	M10 - M11	30 x 11 mm	260 mm	158-4
Die Holder	M12 - M14	38 x 14 mm	315 mm	158-5

External Deburrer, ø 3-19 mm

- with 1/4″ hex drive
- for threaded rods, round rods, screws, tubes etc.
- e.g. for renewing threaded attachments on drive shafts, wheel hub stud bolts, track rods
- suitable for stainless steel, steel, copper, brass, wood, fibreglass and plastics
- cutting tips made of high-strength tungsten steel

Item	for Ø	Drive	Art. No.
Deburring Tool	3 - 19 mm	1/4" hex	1287

External Deburrer, ø 5-36 mm

- with 9 mm hex drive
- for threaded rods, round rods, screws, tubes etc.
- e.g. for renewing threaded attachments on drive shafts, wheel hub stud bolts, track rods
- suitable for stainless steel, steel, copper, brass, wood, fibreglass and plastics
- cutting tips made of high-strength tungsten steel

Item	for Ø	Drive	Art. No.
Deburring Tool	15 - 36 mm	9 mm hex	1288

Deburring Tool

- for internal and external, plastic body

Item	for Ø	Art. No.
Deburring Tool	3-40 mm	1285

Thread Repair Kits, 130 pcs.

- for repairing damaged threads and plating threads in materials with low shearing strength
- supplied in metal case
- 5 twist drills
- 5 taps
- 5 installation tools
- 5 tang breakers
- 110 thread inserts

Item	Size	pcs	Art. No.
Thread Repair Kit	M5 x 0.8, M6 x 1.0, M8 x 1.25, M10 x 1.5, M12 x 1.75	130	5370
Thread Repair Kit	M6 x 1.0, M8 x 1.25, M10 x 1.5, M12 x 1.75, M14 x 1.25	130	5375

Thread Repair Kits

- for repairing damaged threads and plating threads in materials with low shearing strength
- supplied in metal case
- 1 twist drill
- 1 tap
- 1 installation tool
- 1 tang breaker
- thread inserts (15 respectively 25 pcs.)

Item	Size	Thread Inserts	pcs	Art. No.
Thread Repair Kit	M5 x 0.8	25 pcs.	29	5380
Thread Repair Kit	M6 x 1.0	25 pcs.	29	5381
Thread Repair Kit	M8 x 1.25	25 pcs.	29	5382
Thread Repair Kit	M10 x 1.0	25 pcs.	29	5386
Thread Repair Kit	M10 x 1.5	25 pcs.	29	5383
Thread Repair Kit	M12 x 1.25	15 pcs.	19	5387
Thread Repair Kit	M12 x 1.75	15 pcs.	19	5384
Thread Repair Kit	M14 x 1.25	15 pcs.	19	5385

Thread Inserts

- for thread repair kits Nr. 5370, 5375, 5380-5387

Item	Size	Thread Inserts	Art. No.
Thread Inserts	M5 x 0.8	25 pcs.	5390
Thread Inserts	M6 x 1.0	25 pcs.	5391
Thread Inserts	M8 x 1.25	25 pcs.	5392
Thread Inserts	M10 x 1.0	25 pcs.	5396
Thread Inserts	M10 x 1.5	25 pcs.	5393
Thread Inserts	M12 x 1.25	10 pcs.	5397
Thread Inserts	M12 x 1.75	10 pcs.	5394
Thread Inserts	M14 x 1.25	10 pcs.	5395

Stud Extractor Set, 25 pcs.

- for broken screws and bolts M5 - M16
- 5 HSS-E cobalt drills: 3.2, 4.8, 6.4, 8.0, 8.7 mm
- 10 pilot bushes: 4.0, 4.8, 4.8, 4.8, 6.0, 7.1, 7.1, 7.1, 9.2, 9.5 mm
- 5 extraction pins: 3.2, 4.8, 6.4, 8.0, 8.7 mm
- 5 extraction nuts: 10, 11, 13, 14, 17 mm

Item	Application	pcs	Art. No.
Stud Extractor Set	M5 - M16 screws + threaded bolts	25	39616

Stud Extractor Set, 25 pcs.

- for broken screws and bolts M5 - M16
- 5 HSS drills: 3.2, 4.8, 6.4, 8.0, 8.7 mm
- 10 pilot bushes: 4.0, 4.8, 4.8, 4.8, 6.0, 7.1, 7.1, 7.1, 9.2, 9.5 mm
- 5 extraction pins: 3.2, 4.8, 6.4, 8.0, 8.7 mm
- 5 extraction nuts: 10, 11, 13, 14, 17 mm

Item	Application	pcs	Art. No.
Stud Extractor Set	M5 - M16 screws + threaded bolts	25	5350

Thread Repair Set, 9 pcs.

- for cleaning and rethreading internal and external threads
- suitable for many applications, e.g. drive shafts, lambda sensors and wheel bolts
- to be operated either with included turning handle or socket and ratchet
- each size 1 thread repair tool for internal and external thread

Item	Size	pcs	Art. No.
Thread Repair Set	M14 x 1.5, M16 x 1.5, M18 x 1.5, M20 x 1.5, M22 x 1.5, M24 x 1.5, M27 x 2.0, M28 x 1.5	9	5363

Thread Restoring Files

- for internal and external threads

Item	Description	Length	Art. No.
Thread Restoring File	metric pitch 0.80, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00	230 mm	4830
Thread Restoring File	AF pitch 10, 11, 12, 14, 16, 18, 20, 24	230 mm	4835

Screw Extractor Set, 6 pcs.

- in plastic case, chrome-vanadium-steel

Item	Size	pcs	Art. No.
Screw Extractor Set	M3 - M24	6	176B

Screw Extractor Set, 7 pcs., M6-12

- for removing rounded or corroded screws with bit profile, e.g. hexagon, tx-star, spline
- aggressive and conical twist profile
- 13 + 16 mm hexagon drive
- high-alloy steel
- M6, 7, 8, 9, 10, 11, 12

Item	Application	pcs	Art. No.
Screw Extractor Set	M6 - M12 screws + threaded bolts	7	72111

Drills

Twist Drill Bits and Bit Set, 1/4" hex shank, 38 pcs.

- 9 twist drill bits ø 3, 4, 4.5, 5, 5.5, 6, 7, 8, 10 mm
- 1 micro reversible ratchet for bits
- 1 adapter, 1/4" square x 1/4" hexagon
- 2 bit holders with quick release, length 67 and 150 mm
- 25 bits

Content		6 mm	16022-6	Plain Slot	
Twist Drill Bits		TX-Star T		1/4" bit, 25 mm	
1/4" hex shank		1/4" bit, 25 mm		4 mm	*16077-4*
3.0 mm	39640-30	T10	16033-10	5.5 mm	*16077-5.5*
4.0 mm	39640-40	T15	16033-15	6.5 mm	*16077-6.5*
4.5 mm	39640-45	T20	16033-20	Cross Slot PH	
5.0 mm	39640-50	T25	16033-25	1/4" bit, 25 mm	
5.5 mm	39640-55	T27	16033-27	PH1	*16088-1*
6.0 mm	39640-60	T30	16033-30	PH2	*16088-2*
7.0 mm	39640-70	T40	16033-40	PH3	*16088-3*
8.0 mm	39640-80	TX-Star tamperproof		Cross Slot PZ	
10.0 mm	39640-100	1/4" bit, 25 mm		1/4" bit, 25 mm	
Hexagon		T20	16044-20	PZ1	*16099-1*
1/4" bit, 25 mm		T25	16044-25	PZ2	*16099-2*
3 mm	16022-3	T27	16044-27	PZ3	*16099-3*
4 mm	16022-4	T30	16044-30		
5 mm	16022-5	T40	16044-40		

Item	Ø	Drive	pcs	Art. No.
Twist Drill Bits and Bit Set	3 - 10 mm	1/4" hex	38	39600

Drive Tools / Accessory, 1/4"	
Micro Bit Reversible Ratchet, with finger disc	1221
Adapter, 1/4" square x 1/4" hexagon	*20630*
Bit Holder, with quick-change chuck, for 1/4" bits, length 67 mm	21261
Bit Holder, with quick-change chuck, for 1/4" bits, length 150 mm	21262

Twist Drill Set, HSS-E Cobalt 5%, 170 pcs., 1-10 mm

- 5% cobalt alloy for maximum tool life and cutting ability
- ground from solid material, manufactured according to DIN 338
- with split point from 3 mm ø, according to DIN 1412C, tip angle 135°
- triangle shank from 5 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials, alloyed and unalloyed <1300 N/mm², e.g. V2A, V4A, steel, cast iron
- each size 10 pcs., ø 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 mm
- each size 5 pcs., ø 8.5, 9.0, 9.5, 10.0 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	1-10 mm	cobalt alloy	170	9610

Twist Drill Set, HSS-G black oxide, 170 pcs., 1-10 mm

- fully ground, manufactured according to DIN 338
- with split point from 3 mm ø, according to DIN 1412C, tip angle 135°
- triangle shank from 5 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials < 1100 N/mm², e.g. steel, cast iron
- each size 10 pcs., ø 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 mm
- each size 5 pcs., ø 8.5, 9.0, 9.5, 10.0 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	1-10 mm	HSS-G	170	9620

HSS Twist Drill Set, titanium coated, 170 pcs.

- titanium nitrided, for higher durability and better sliding properties
- roll forged, manufactured according to DIN 338
- edge ground, tip angle 118°
- for drilling in ordinary steel < 800 N/mm², e.g. steel, cast iron
- each size 10 pcs., ø 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 mm
- each size 5 pcs., ø 8.5, 9.0, 9.5, 10.0 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	1-10 mm	HSS titanium coated	170	9600

HSS Twist Drill Set, 170 pcs.

- roll forged, manufactured according to DIN 338
- edge ground, tip angle 118°
- for drilling in ordinary metal < 800 N/mm², e.g. steel, cast iron
- each size 10 pcs. ø 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 mm
- each size 5 pcs. ø 8.5, 9.0, 9.5, 10.0 mm

Item	Ø	pcs	Art. No.
HSS Twist Drill Set	1-10 mm	170	455

Twist Drill Set, HSS-E Cobalt 5%, 25 pcs., 1-13 mm

- 5% cobalt alloy for maximum tool life and cutting ability
- ground from solid material, manufactured according to DIN 338
- with split point from 3 mm ø, according to DIN 1412C, tip angle 135°
- triangle shank from 5 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials, alloyed and unalloyed <1300 N/mm², e.g. V2A, V4A, steel, cast iron
- ø 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 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	1-13 mm	HSS Co5	25	9612

Twist Drill Set, HSS-E Cobalt 5%, 19 pcs., 1-10 mm

- 5% cobalt alloy for maximum tool life and cutting ability
- ground from solid material, manufactured according to DIN 338
- with split point from 3 mm ø, according to DIN 1412C, tip angle 135°
- triangle shank from 5 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials, alloyed and unalloyed <1300 N/mm², e.g. V2A, V4A, steel, cast iron
- ø 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, 8.5, 9.0, 9.5, 10.0 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	1-10 mm	cobalt alloy	19	9611

Twist Drill Set, HSS-G black oxide, 25 pcs., 1-13 mm

- fully ground, manufactured according to DIN 338
- with split point from 3 mm ø, according to DIN 1412C, tip angle 135°
- triangle shank from 5 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials < 1100 N/mm², e.g. steel, cast iron
- ø 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, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.5, 13.0 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	1-13 mm	HSS-G	25	9623

Twist Drill Set, HSS-G black oxide, 19 pcs., 1-10 mm

- fully ground, manufactured according to DIN 338
- with split point from 3 mm ø, according to DIN 1412C, tip angle 135°
- triangle shank from 5 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials < 1100 N/mm², e.g. steel, cast iron
- ø 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, 8.5, 9.0, 9.5, 10.0 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	1-10 mm	HSS-G	19	9622

Twist Drill Set, HSS titanium coated, 25 pcs., 1-13 mm

- titanium nitrided, for higher durability and better sliding properties
- roll forged, manufactured according to DIN 338
- edge ground, tip angle 118°
- for drilling in ordinary steel < 800 N/mm², e.g. steel, cast iron
- ø 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, 8.5, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	1-13 mm	HSS titanium coated	25	9634

Twist Drill Set, HSS titanium coated, 19 pcs., 1-10 mm

- titanium nitrided, for higher durability and better sliding properties
- roll forged, manufactured according to DIN 338
- edge ground, tip angle 118°
- for drilling in ordinary steel < 800 N/mm², e.g. steel, cast iron
- ø 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, 8.5, 9.5, 10.0 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	1-10 mm	HSS titanium coated	19	9633

HSS Twist Drill Sets

- roll forged, manufactured according to DIN 338
- edge ground, tip angle 118°
- for drilling in ordinary metal < 800 N/mm², e.g. steel, cast iron

Item	Size	pcs	Art. No.
HSS Twist Drill Set	1 - 10 mm (sizes increasing by 0.5 mm)	19	456
HSS Twist Drill Set	1 - 13 mm (sizes increasing by 0.5 mm)	25	457

HSS Twist Drill Set, 19 pcs.

- titanium nitrided, for higher durability and better sliding properties
- roll forged, manufactured according to DIN 338
- edge ground, tip angle 118°
- for drilling in ordinary steel < 800 N/mm², e.g. steel, cast iron

Item	Size	pcs	Art. No.
HSS Twist Drill Set	1 - 10 mm (sizes increasing by 0.5 mm)	19	459

Twist Drill Set, core hole sizes, 7 pcs., HSS-E Cobalt 5%, 2.5-10.2 mm

- 5% cobalt alloy for maximum tool life and cutting ability
- ground from solid material, manufactured according to DIN 338
- with split point from 3 mm ø, according to DIN 1412C, tip angle 135°
- triangle shank from 5 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials, alloyed and unalloyed <1300 N/mm², e.g. V2A, V4A, steel, cast iron
- ø 2.5, 3.3, 4.2, 5.0, 6.8, 8.5, 10.2 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	2.5 - 10.2 mm	HSS Co5	7	9619

Twist Drill Set, core hole sizes, 7 pcs., HSS-G black oxide, 2.5-10.2 mm

- fully ground, manufactured according to DIN 338
- with split point from 3 mm ø, according to DIN 1412C, tip angle 135°
- triangle shank from 5 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials < 1100 N/mm², e.g. steel, cast iron
- ø 2.5, 3.3, 4.2, 5.0, 6.8, 8.5, 10.2 mm

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	2.5 - 10.2 mm	HSS-G	7	9629

Twist Drill, HSS-E Cobalt 5%

- 5% cobalt alloy for maximum tool life and cutting ability
- ground from solid material, manufactured according to DIN 338
- with split point from 3 mm ø, according to DIN 1412C, tip angle 135°
- triangle shank from 5 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials, alloyed and unalloyed <1300 N/mm², e.g. V2A, V4A, steel, cast iron

Item	Ø	Length	Quantity	Art. No.
HSS Twist Drill	1.0 mm	34 mm	2 pcs.	39611-010
HSS Twist Drill	1.5 mm	40 mm	2 pcs.	39611-015
HSS Twist Drill	2.0 mm	49 mm	2 pcs.	39611-020
HSS Twist Drill	2.5 mm	57 mm	2 pcs.	39611-025
HSS Twist Drill	3.0 mm	61 mm	2 pcs.	39611-030
HSS Twist Drill	3.3 mm	65 mm	2 pcs.	39611-033
HSS Twist Drill	3.5 mm	70 mm	2 pcs.	39611-035
HSS Twist Drill	4.0 mm	75 mm	1 pcs.	39611-040
HSS Twist Drill	4.2 mm	75 mm	1 pcs.	39611-042
HSS Twist Drill	4.5 mm	80 mm	1 pcs.	39611-045
HSS Twist Drill	5.0 mm	86 mm	1 pcs.	39611-050
HSS Twist Drill	5.5 mm	93 mm	1 pcs.	39611-055
HSS Twist Drill	6.0 mm	93 mm	1 pcs.	39611-060
HSS Twist Drill	6.5 mm	101 mm	1 pcs.	39611-065
HSS Twist Drill	6.8 mm	109 mm	1 pcs.	39611-068
HSS Twist Drill	7.0 mm	109 mm	1 pcs.	39611-070
HSS Twist Drill	7.5 mm	109 mm	1 pcs.	39611-075
HSS Twist Drill	8.0 mm	117 mm	1 pcs.	39611-080
HSS Twist Drill	8.5 mm	117 mm	1 pcs.	39611-085
HSS Twist Drill	9.0 mm	125 mm	1 pcs.	39611-090
HSS Twist Drill	9.5 mm	125 mm	1 pcs.	39611-095
HSS Twist Drill	10.0 mm	133 mm	1 pcs.	39611-100
HSS Twist Drill	10.2 mm	133 mm	1 pcs.	39611-102
HSS Twist Drill	10.5 mm	133 mm	1 pcs.	39611-105
HSS Twist Drill	11.0 mm	142 mm	1 pcs.	39611-110
HSS Twist Drill	11.5 mm	142 mm	1 pcs.	39611-115
HSS Twist Drill	12.0 mm	151 mm	1 pcs.	39611-120
HSS Twist Drill	12.5 mm	151 mm	1 pcs.	39611-125
HSS Twist Drill	13.0 mm	151 mm	1 pcs.	39611-130

Twist Drill, HSS-G, black oxide

- fully ground, manufactured according to DIN 338
- with split point from 3 mm ø, according to DIN 1412C, tip angle 135°
- triangle shank from 5 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials < 1100 N/mm², e.g. steel, cast iron

Item	Ø	Length	Quantity	Art. No.
HSS Twist Drill	1.0 mm	34 mm	2 pcs.	39622-010
HSS Twist Drill	1.5 mm	40 mm	2 pcs.	39622-015
HSS Twist Drill	2.0 mm	49 mm	2 pcs.	39622-020
HSS Twist Drill	2.5 mm	57 mm	2 pcs.	39622-025
HSS Twist Drill	3.0 mm	61 mm	2 pcs.	39622-030
HSS Twist Drill	3.5 mm	70 mm	2 pcs.	39622-035
HSS Twist Drill	4.0 mm	75 mm	1 pcs.	39622-040
HSS Twist Drill	4.5 mm	80 mm	1 pcs.	39622-045
HSS Twist Drill	5.0 mm	86 mm	1 pcs.	39622-050
HSS Twist Drill	5.5 mm	93 mm	1 pcs.	39622-055
HSS Twist Drill	6.0 mm	93 mm	1 pcs.	39622-060
HSS Twist Drill	6.5 mm	101 mm	1 pcs.	39622-065
HSS Twist Drill	7.0 mm	109 mm	1 pcs.	39622-070
HSS Twist Drill	7.5 mm	109 mm	1 pcs.	39622-075
HSS Twist Drill	8.0 mm	117 mm	1 pcs.	39622-080
HSS Twist Drill	8.5 mm	117 mm	1 pcs.	39622-085
HSS Twist Drill	9.0 mm	125 mm	1 pcs.	39622-090
HSS Twist Drill	9.5 mm	125 mm	1 pcs.	39622-095
HSS Twist Drill	10.0 mm	133 mm	1 pcs.	39622-100
HSS Twist Drill	10.5 mm	133 mm	1 pcs.	39622-105
HSS Twist Drill	11.0 mm	142 mm	1 pcs.	39622-110
HSS Twist Drill	11.5 mm	142 mm	1 pcs.	39622-115
HSS Twist Drill	12.0 mm	151 mm	1 pcs.	39622-120
HSS Twist Drill	12.5 mm	151 mm	1 pcs.	39622-125
HSS Twist Drill	13.0 mm	151 mm	1 pcs.	39622-130

Twist Drill Set, left cut, HSS-E Cobalt 5%, 5 pcs., 3.2-8.7 mm

- 5% cobalt alloy for maximum tool life and cutting ability
- ground from solid material, manufactured according to DIN 338
- with split point, according to DIN 1412C, tip angle 135°
- triangle shank from 4.8 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials, alloyed and unalloyed <1300 N/mm², e.g. V2A, V4A, steel, cast iron
- ø 3.2, 4.8, 6.4, 8.0, 8.7 mm

Content	Ø	Material	Art. No.
HSS Twist Drill	3.2 mm	HSS Co5	39615-032
HSS Twist Drill	4.8 mm	HSS Co5	39615-048
HSS Twist Drill	6.4 mm	HSS Co5	39615-064
HSS Twist Drill	8.0 mm	HSS Co5	39615-080
HSS Twist Drill	8.7 mm	HSS Co5	39615-087

Item	Ø	Material	pcs	Art. No.
HSS Twist Drill Set	3.2 - 8.7 mm	HSS Co5	5	39615

Twist Drills, left cut, HSS-E Cobalt 5%

- 5% cobalt alloy for maximum tool life and cutting ability
- ground from solid material, manufactured according to DIN 338
- with split point, according to DIN 1412C, tip angle 135°
- triangle shank from 4.8 mm ø, to prevent slipping in the chuck
- ideal for difficult to machine materials, alloyed and unalloyed <1300 N/mm², e.g. V2A, V4A, steel, cast iron

Item	Ø	Material	Art. No.
HSS Twist Drill	3.2 mm	HSS Co5	39615-032
HSS Twist Drill	4.8 mm	HSS Co5	39615-048
HSS Twist Drill	6.4 mm	HSS Co5	39615-064
HSS Twist Drill	8.0 mm	HSS Co5	39615-080
HSS Twist Drill	8.7 mm	HSS Co5	39615-087

HSS Drill Set, left cut, 5 pcs.

- to drill out damaged screw heads or threaded bolts, e.g. on exhaust manifold

Item	Size	Description	Material	pcs	Art. No.
HSS Twist Drill Set	3, 4, 5, 6, 7 mm	left-cut	HSS	5	5351

Twist Drill Bit Set, HSS-G M2, 1/4" hex shank, 9 pcs.

Content	Ø	Drive	Length	Art. No.
Twist Drill Bit	3.0 mm	1/4" hex	38 mm	39640-30
Twist Drill Bit	4.0 mm	1/4" hex	44 mm	39640-40
Twist Drill Bit	4.5 mm	1/4" hex	47 mm	39640-45
Twist Drill Bit	5.0 mm	1/4" hex	50 mm	39640-50
Twist Drill Bit	5.5 mm	1/4" hex	50 mm	39640-55
Twist Drill Bit	6.0 mm	1/4" hex	50 mm	39640-60
Twist Drill Bit	7.0 mm	1/4" hex	50 mm	39640-70
Twist Drill Bit	8.0 mm	1/4" hex	52 mm	39640-80
Twist Drill Bit	10.0 mm	1/4" hex	53 mm	39640-100

Item	Ø	Art. No.
Twist Drill Bit Set	3.0 - 10.0 mm	39601

Twist Drill Bits, HSS-G M2, 1/4" hex shank

Item	Ø	Drive	Length	Art. No.
Twist Drill Bit	3.0 mm	1/4" hex	38 mm	39640-30
Twist Drill Bit	3.3 mm	1/4" hex	38 mm	39640-33
Twist Drill Bit	4.0 mm	1/4" hex	44 mm	39640-40
Twist Drill Bit	4.2 mm	1/4" hex	45 mm	39640-42
Twist Drill Bit	4.5 mm	1/4" hex	47 mm	39640-45
Twist Drill Bit	5.0 mm	1/4" hex	50 mm	39640-50
Twist Drill Bit	5.5 mm	1/4" hex	50 mm	39640-55
Twist Drill Bit	6.0 mm	1/4" hex	50 mm	39640-60
Twist Drill Bit	6.8 mm	1/4" hex	50 mm	39640-68
Twist Drill Bit	7.0 mm	1/4" hex	50 mm	39640-70
Twist Drill Bit	8.0 mm	1/4" hex	52 mm	39640-80
Twist Drill Bit	8.5 mm	1/4" hex	53 mm	39640-85
Twist Drill Bit	10.0 mm	1/4" hex	53 mm	39640-100
Twist Drill Bit	10.2 mm	1/4" hex	53 mm	39640-102

Step Drill Set, 3 pcs., HSS-E Cobalt 5%, 4-12 / 4-20 / 4-30 mm

- 5% cobalt alloy for maximum durability
- for material up to 4 mm thickness
- 4-20 and 4-30 mm with integrated edge breaker for simultaneous and double-sided deburring of sheets up to 1 mm thickness

Content	Ø	Material	Art. No.
Step Drill	4 - 12 mm	HSS Co5	39691
Step Drill	4 - 20 mm	HSS Co5	39692
Step Drill	4 - 30 mm	HSS Co5	39693

Item	Ø	Material	Art. No.
Step Drill Set	4 - 30 mm	HSS Co5	39690

Step Drill, with edge breaker, HSS-E Cobalt 5%, 4-30 mm

HSS-E Cobalt

- 5% cobalt alloy material for max. durability
- 14 drill steps increasing by 2 mm
- for material up to 4 mm thickness
- integrated edge breaker for simultaneous and double-sided deburring of sheets up to 1 mm thickness

Item	Ø	Material	Art. No.
Step Drill	4 - 30 mm	HSS Co5	39693

Step Drill, with edge breaker, HSS-E Cobalt 5%, 4-20 mm

HSS-E Cobalt

- 5% cobalt alloy material for max. durability
- 9 drill steps increasing by 2 mm
- for material up to 4 mm thickness
- integrated edge breaker for simultaneous and double-sided deburring of sheets up to 1 mm thickness

Item	Ø	Material	Art. No.
Step Drill	4 - 20 mm	HSS Co5	39692

Step Drill, HSS-E Cobalt 5%, 4-12 mm

HSS-E Cobalt

- 5% cobalt alloy material for max. durability
- 9 drill steps increasing by 1 mm
- for material up to 4 mm thickness

Item	Ø	Material	Art. No.
Step Drill	4 - 12 mm	HSS Co5	39691

Step Drill Set, 3 pcs.

HSS Titan

- HSS, titanium coated, minimum wear

Content	Ø	Material	Art. No.
Step Drill	4 - 12 mm	HSS titanium coated	443-1
Step Drill	4 - 20 mm	HSS titanium coated	443-2
Step Drill	4 - 32 mm	HSS titanium coated	443-3

Item	Ø	Material	pcs	Art. No.
Step Drill Set	4 - 32 mm	HSS titanium coated	3	443

Step Drills

HSS Titan

- HSS, titanium coated, minimum wear

Item	Ø	Material	Art. No.
Step Drill	4 - 12 mm	HSS titanium coated	443-1
Step Drill	4 - 20 mm	HSS titanium coated	443-2
Step Drill	4 - 32 mm	HSS titanium coated	443-3
Step Drill	10 - 45 mm	HSS titanium coated	443-4

Step Drill Bit, with edge breaker, HSS-E Cobalt 5%, 4-20 mm

6,3mm 1/4" HSS-E Cobalt

- 5% cobalt alloy material for max. durability
- 9 drill steps increasing by 2 mm
- for material up to 4 mm thickness
- integrated edge breaker for simultaneous and double-sided deburring of sheets up to 1 mm thickness

Item	Ø	Drive	Material	Art. No.
Step Drill Bit	4 - 20 mm	1/4" hex	HSS Co5	39695

Step Drill Bit, with edge breaker, HSS, titanium coated, 4-20 mm

- titanium coated, minimum wear
- 9 drill steps increasing by 2 mm
- for material up to 4 mm thickness
- integrated edge breaker for simultaneous and double-sided deburring of sheets up to 1 mm thickness

Item	Ø	Drive	Material	Art. No.
Step Drill Bit	4 - 20 mm	1/4" hex	HSS titanium coated	39698

Drill Stand

- suitable for wall fastening

Item	Application	Art. No.
Drill Stand	drills 1 - 13 mm (in 0.5 mm steps)	421

Universal Drill Guide, for ø 3.0-9.5 mm

- for precise drilling at right angles on round materials, surfaces and edges
- position lines enable quick and easy finding of the drilling position
- incl. core hole sizes 3.3, 4.2, 6.8 mm for creating threads
- ø 3.0, 3.3, 3.5, 4.0, 4.2, 4.5, 5.0, 5.5, 6.0, 6.5, 6.8, 7.0, 7.5, 8.0, 8.5, 9.0 and 9.5 mm

Item	Ø	Art. No.
Drill Guide	3.0 - 9.5 mm	9699

Drill Grinding Attachment

- provides accurate sharpening of twist drills
- 5 pre-set angles: 41, 49, 59, 68, 88°

Item	Application	Art. No.
Drill Grinding Attachment	twist drills 3 - 18 mm	420

Flexible Drill Shaft

- ideal for drilling, grinding and polishing in hard to reach areas

Item	Description	Length	Art. No.
Flexible Drill Shaft	chuck 10 mm	1300 mm	8650

Angle Drill Attachment

- ideal for hard to reach areas

Item	Description	Art. No.
Angle Drill Attachment	chuck 10 mm	8600

Quick Release Chuck

Item	Ø	Application	Art. No.
Quick Release Chuck	1 - 13 mm, 1/2" 20UNF	hand drill	8500
Quick Release Chuck	1 - 13 mm, B16	drill press	8510
Quick Release Chuck	1 - 16 mm, B16	drill press	8520

Cutters

Tungsten Carbide Burr Set, 12 pcs.

- form A, B, C, D, F, G
- ø each in 6 + 10 mm

Content	Ø	Description	Shaft	Material	Art. No.
Carbide Burr	6 mm	cylinder without end cut (A)	6 mm	tungsten steel	9801-06
Carbide Burr	10 mm	cylinder without end cut (A)	6 mm	tungsten steel	9801-10
Carbide Burr	6 mm	cylinder with end cut (B)	6 mm	tungsten steel	9802-06
Carbide Burr	10 mm	cylinder with end cut (B)	6 mm	tungsten steel	9802-10
Carbide Burr	6 mm	oval (C)	6 mm	tungsten steel	9803-06
Carbide Burr	10 mm	oval (C)	6 mm	tungsten steel	9803-10
Carbide Burr	6 mm	ball type (D)	6 mm	tungsten steel	9804-06
Carbide Burr	10 mm	ball type (D)	6 mm	tungsten steel	9804-10
Carbide Burr	6 mm	tree shape with radius end (F)	6 mm	tungsten steel	9806-06
Carbide Burr	10 mm	tree shape with radius end (F)	6 mm	tungsten steel	9806-10
Carbide Burr	6 mm	pointed tree shape (G)	6 mm	tungsten steel	9807-06
Carbide Burr	10 mm	pointed tree shape (G)	6 mm	tungsten steel	9807-10

Item	Description	Shaft	Material	pcs	Art. No.
Carbide Burr Set	A, B, C, D, F, G	6 mm	tungsten steel	12	9812

Tungsten Carbide Burr Set, 7 pcs.

- ø 10 mm form A, B, C, D, F, G
- ø 6 mm form C

Content	Ø	Description	Shaft	Material	Art. No.
Carbide Burr	6 mm	oval (C)	6 mm	tungsten steel	9803-06
Carbide Burr	10 mm	cylinder without end cut (A)	6 mm	tungsten steel	9801-10
Carbide Burr	10 mm	cylinder with end cut (B)	6 mm	tungsten steel	9802-10
Carbide Burr	10 mm	oval (C)	6 mm	tungsten steel	9803-10
Carbide Burr	10 mm	ball type (D)	6 mm	tungsten steel	9804-10
Carbide Burr	10 mm	tree shape with radius end (F)	6 mm	tungsten steel	9806-10
Carbide Burr	10 mm	pointed tree shape (G)	6 mm	tungsten steel	9807-10

Item	Description	Shaft	Material	pcs	Art. No.
Carbide Burr Set	A, B, C, D, F, G	6 mm	tungsten steel	7	9817

Tungsten Carbide Burr Set, 3 pcs.

- ø 10 mm form B, D, G

Content	Ø	Description	Shaft	Material	Art. No.
Carbide Burr	10 mm	cylinder with end cut (B)	6 mm	tungsten steel	9802-10
Carbide Burr	10 mm	ball type (D)	6 mm	tungsten steel	9804-10
Carbide Burr	10 mm	pointed tree shape (G)	6 mm	tungsten steel	9807-10

Item	Description	Shaft	Material	pcs	Art. No.
Carbide Burr Set	B, D, G	6 mm	tungsten steel	3	9813

Tungsten Carbide Burr, aluminium toothing

- specially designed for working on nonferrous metals like aluminium

Item	Ø	Description	Shaft	Art. No.
Carbide Burr, aluminium toothing	12 mm	cylinder with end cut (B)	6 mm	9822-12

Tungsten Carbide Burrs

Item	Ø	Description	Shaft	Art. No.
Carbide Burr	6 mm	cylinder without end cut (A)	6 mm	9801-06
Carbide Burr	10 mm	cylinder without end cut (A)	6 mm	9801-10
Carbide Burr	6 mm	cylinder with end cut (B)	6 mm	9802-06
Carbide Burr	10 mm	cylinder with end cut (B)	6 mm	9802-10
Carbide Burr	6 mm	oval (C)	6 mm	9803-06
Carbide Burr	10 mm	oval (C)	6 mm	9803-10
Carbide Burr	6 mm	ball type (D)	6 mm	9804-06
Carbide Burr	10 mm	ball type (D)	6 mm	9804-10
Carbide Burr	6 mm	tree shape with radius end (F)	6 mm	9806-06
Carbide Burr	10 mm	tree shape with radius end (F)	6 mm	9806-10
Carbide Burr	6 mm	pointed tree shape (G)	6 mm	9807-06
Carbide Burr	10 mm	pointed tree shape (G)	6 mm	9807-10

Milling Cutters, 6 pcs.

- suitable for use with power drills
- for nonferrous metals like brass and aluminium, plastics and wood
- not suitable for hardened steel!

Item	Length	Shaft	Material	pcs	Art. No.
Milling Cutters	50 / 54 mm	6 mm	HSS	6	444

Mini Drill Kit, 313 pcs.

- polishing, milling and grinding accessories including milling heads for small drill jobs
- comprehensive assortment for milling, grinding, polishing, precision boring, rust removal, separating, engraving

Item	Shaft	pcs	Art. No.
Mini Drill Kit	3 mm	313	445

Diamond Grinding and Milling Tool Set, 20 pcs.

- for precise requirements
- forms: cylinder, taper, ball, round

Item	Length	Shaft	pcs	Art. No.
Diamond Grinding and Milling Tool Set	45 mm	3 mm	20	447

Diamond Grinding Tool Set, 50 pcs.

- for precise requirements
- comprehensive assortment, with forms cylinder, taper, ball, round, conical

Item	Length	Shaft	pcs	Art. No.
Diamond Grinding Tool Set	45 mm	3 mm	50	446

Router Bit Set

- 8 mm shank
- tungsten-tipped heads
- ball-bearing cone

Item	Description	pcs	Art. No.
Router Bit Set	12 router bits	12	437

Sanitary Tools

Sanitary Wrench

- chrome plated
- 4x hexagon: 3/8", 1/2", 3/4", 1"
- 4x internal thread: M6, 8, 10, 12
- 2x square: 3/8", 1/2"

Item	Length	Art. No.
Sanitary Wrench	220 x 220 mm	1284

Radiator Spud Wrench

- 5-stepped
- with flute

Item	Size	Drive	Length	Art. No.
Radiator Spud Wrench	3/8-1"	1/2"	90 mm	1280

Screw Punch

- for sinks made from stainless steel, sheet steel, aluminium

Item	Ø	Art. No.
Screw Punch	32 mm	1270
Screw Punch	35 mm	1271

Siphon and Tap Pliers

- for loosening screw connections up to ø 80 mm
- adjustable
- with tap protection sleeves

Item	Length	Art. No.
Siphon and Tap Pliers	230 mm	190

Gasket Assortment, 141 pcs.

- assorted gaskets made of rubber and fiber
- ideal for sanitary applications
- rubber (black):
  10 pcs. 1/2" x 16 mm, 10 pcs. 1/2" x 17 mm, 10 pcs. 3/4"-15 x 24 mm, 10 pcs. 3/4"-11 x 24 x 2 mm, 5 pcs. 3/8" x 8 mm, 5 pcs. 3/8" x 10 mm, 5 pcs. 1/2"-9 x 19 mm, 5 pcs. 1/2" x 10 mm
- fiber (red):
  10 pcs. 21 x 17 mm, 10 pcs. 3/8", 10 pcs. 3/8" x 8 mm, 10 pcs. 1/2", 10 pcs. 1/2"-12 x 18 mm, 10 pcs. 3/4"-16 x 24 mm, 10 pcs. 3/4", 5 pcs. 1", 3 pcs. 1.1/4"-30 x 39 mm, 3 pcs. 1.1/2"-27 x 38 mm

Item	pcs	Art. No.
Gasket Assortment	141	9180

Basin Wrench

Item	Spread	Length	Art. No.
Basin Wrench	10 - 32 mm	275 mm	191

Pipe Wrenches

- s-type

Item	for Ø	Spread	Length	Art. No.
Pipe Wrench	1"	0 - 55 mm	320 mm	178-1
Pipe Wrench	1.5"	0 - 80 mm	425 mm	178-1.1-2
Pipe Wrench	2"	0 - 95 mm	555 mm	178-2

Copper Pipe Benders

- with angle scale

Item	for Ø	Art. No.
Copper Pipe Bender	10 mm	408-10
Copper Pipe Bender	12 mm	408-12

Pipe Bender

- for copper, aluminium and steel pipes
- for precise bending up to 180°

Item	for Ø	Art. No.
Pipe Bender	6, 8, 10 mm	409

Mini Pipe Cutters

360

364

366

340A

151A

Item	for Ø	Application	Art. No.
Mini Pipe Cutter	1/8 - 5/8"	copper, brass, light metal	360
Pipe Cutter	1/8 - 1.1/8"	copper, brass, light metal	364
Pipe Cutter	1/8 - 1.1/2"	copper, brass, light metal	366
Pipe Cutter	1/8 - 2"	steel pipes	340A
Plastic Pipe Cutter	50 - 140 mm	plastic	151A

Deburring Tool

- for internal and external, plastic body

Item	for Ø	Art. No.
Deburring Tool	3-40 mm	1285

Double Flaring Tool Kit, for copper pipes

- produces single and double lap flares

Content	for Ø	Art. No.
Thrust Frame, with spindle		*410-PD*
Thrust Brackets		*410-SB*
Thrust Piece	4.75 mm	*410-4.75*
Thrust Piece	5 mm	*410-5*
Thrust Piece	6 mm	*410-6*
Thrust Piece	8 mm	*410-8*
Thrust Piece	10 mm	*410-10*
Thrust Piece	1/4"	*410-1-4*
Thrust Piece	1/2"	*410-1-2*

Item	Art. No.
Double Flaring Tool Kit	410

Professional Ratchet Pipe Threading Set, 8 pcs.

- threading tool for sanitary pipes

Content	for Ø	Art. No.
Die Stock	3/8"	*1290-01*
Die Stock	1/2"	*1290-02*
Die Stock	3/4"	*1290-03*
Die Stock	1"	*1290-04*
Die Stock	1.1/4"	*1290-05*
Die Stock Ratchet		*1290-KL*
Extension Bar		*1290-VL*
Handle		*1290-HG*

Item	for Ø	pcs	Art. No.
Professional Ratchet Pipe Threading Set	3/8-1.1/4"	8	1290

Tile Hole Cutter

- tips manufactured from hardened steel
- for hand drills
- 1 arbor with pilot drill + 4 cutters

Item	Ø	Art. No.
Tile Hole Cutter	33, 53, 63, 73 mm	506-6

Notched Scraper

- flexible
- notched on all sides
- 4 different notch patterns

Item	Length	Art. No.
Notched Scraper, flexible plastic	135 x 90 mm	390B

Pipe Cleaning Spirals

- with crank handle and claw

Item	Ø	Length	Art. No.
Pipe Cleaning Spiral	6 mm	3 m	378A
Pipe Cleaning Spiral	9 mm	5 m	378B
Pipe Cleaning Spiral	9 mm	10 m	378C

Measuring Tools

Dial Gauges according to DIN 878

- for precise measuring and controlling

Item	Measuring Range	Shaft	Tolerance	Outer-Ø	Art. No.
Dial Gauge	0 - 10 mm	8 mm, H6	0.01 mm	60 mm	1380
Dial Gauge	0 - 8 mm	8 mm, H6	0.01 mm	42 mm	1381

Magnetic Base for Measuring Instruments

- prism shaped base with on/off switch, ideal e.g. for round suspension struts
- for checking on brake discs, wheel hubs etc.
- adjustable in many positions

Item	Art. No.
Magnetic Base for Dial Gauge	1388

10

Digital Tire Depth Gauge

- resolution: 0.01 mm
- adjustable 0-position

Item	Measuring Range	Art. No.
Digital Tire Depth Gauge	0 - 25 mm	1363

Digital Caliper, stainless steel

- accuracy: 0.03 mm / 0.001"
- adjustable 0-position
- with depth gauge
- supplied in plastic storage box

Item	Measuring Range	Art. No.
Digital Caliper	150 mm / 0 - 6 inch	1360EX

Caliper

- nonius 1/20 mm for internal and external
- with depth gauge
- supplied in synthetic leather pouch

Item	Measuring Range	Art. No.
Caliper	150 mm	1345

Caliper, plastic

- for internal and external
- with depth gauge

Item	Measuring Range	Art. No.
Caliper	150 mm	1340

Precision Measurement Tool Kit, 4 pcs.

- 1x caliper 150 mm
- 1x micrometer 0 - 25 mm
- 1x steel rule 150 mm
- 1x engineers square 100 mm

Item	pcs	Art. No.
Precision Measurement Tool Kit	4	1365

Micrometers

Item	Measuring Range	Tolerance	Art. No.
Micrometer	0 - 25 mm	0.01 mm	1370-1
Micrometer	25 - 50 mm	0.01 mm	1370-2
Micrometer	50 - 75 mm	0.01 mm	1370-3
Micrometer	76 - 100 mm	0.01 mm	1370-4

Inclinometer – digital

- for digital measurement or control of angle deviations in motor vehicles
- when setting and checking timing on the engine
- for quick control of wheel camber setting in vehicles
- also for use in other craft areas
- with magnetic base for easy attachment to magnetic surfaces
- power supply via 2 x AAA batteries, 1.5V (not included)

Item	Art. No.
Inclinometer	1337

Precision Straight Edge, 610 mm

- also suitable for calibrating double clutches on DSG gearboxes, the engagement bearing position of K1 and K2 clutches on DSG gearboxes and the input shafts on CVT gearboxes
- for checking plane surface e.g. on cylinder heads and engine blocks
- for cylinder heads with max. 6 cylinders
- with hanging hole

Item	OEM Comparison No.	Length	Width	Thickness	Art. No.
Precision Straight Edge	T40100	610 mm	50 mm	6 mm	3820

Precision Straight Edge, 600 mm

- for checking plane surface e.g. on cylinder heads and engine blocks
- for cylinder heads with max. 6 cylinders
- supplied in plastic case

Item	Length	Width	Thickness	Art. No.
Precision Straight Edge	600 mm	36 mm	16 mm	3821

Steel Rule, scale in mm / AF

- scale in mm / inch

Item	Measuring Range	Art. No.
Steel Rule	150 mm / 6"	139-1
Steel Rule	300 mm / 12"	139-2
Steel Rule	500 mm / 20"	139-3
Steel Rule	1000 mm / 40"	139-4

Magnetic Flexible Ruler

- ideal for photographic documentation of scratches, dents, accidental damage, etc.
- for measuring uneven, round, or stepped surfaces

Item	Length	Width	Art. No.
Magnetic Flexible Ruler	600 mm	20 mm	1339

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Feeler Gauges

- steel case with thumbscrew, supplied in pouch

Item	Measuring Range	Length	Quantity	Art. No.
Feeler Gauges	0.05 - 1.00 mm	100 mm	13 blades	171
Feeler Gauges	0.05 - 1.00 mm	100 mm	20 blades	172

Screwpitch Gauges

- for internal and external measurements, metric thread DIN 13/14

Item	Measuring Range	Quantity	Art. No.
Screwpitch Gauge	0.25 - 6 mm	24 blades	184
Screwpitch Gauge	0.25 - 6 mm (24 blades), Whitworth 4 - 61 (28 blades)	52 blades	185

Thread Checking Bolts

- with 2-in-1 function for measuring internal and external threads
- for quick identification of thread size and thread pitch
- for screws, nuts, stud bolts, through holes and blind holes
- clearly visible size marking on each individual gauge

Item	Measuring Range	Quantity	Art. No.
Thread Checking Bolts	M4-M12	12 bolts	5684
Thread Checking Bolts	M4-M12 / 6-1/2"	26 bolts	5685

Torque Wrenches

Expert Torque Wrenches

1/4" 3/8" 1/2" 3/4" 1" 48

- numerical display of torque value
- single actuation (only right-turn)
- with calibration certificate and serial number
- extra fine scale
- safety button prevents accidental movement of torque setting ring
- ergonomic handle design for convenient operation
- reversible ratchet head

Item	Drive	Measuring Range	Fine Scale	Teeth	Length	Tolerance	Art. No.
Torque Wrench	1/4"	5-25 Nm	0.1 Nm	48	323 mm	+/- 4%	8122-0
Torque Wrench	3/8"	10-50 Nm	0.5 Nm	48	400 mm	+/- 4%	8122-1
Torque Wrench	1/2"	20-100 Nm	0.5 Nm	48	400 mm	+/- 4%	8122-2
Torque Wrench	1/2"	40-200 Nm	0.5 Nm	48	517 mm	+/- 4%	8122-3
Torque Wrench	1/2"	60-340 Nm	1.0 Nm	48	620 mm	+/- 4%	8122-4
Torque Wrench	3/4"	150-750 Nm	2.5 Nm	48	1210 mm	+/- 4%	8122-5
Torque Wrench	3/4"	200-1000 Nm	2.5 Nm	48	1500 mm	+/- 4%	8122-7
Torque Wrench	1"	200-1000 Nm	2.5 Nm	48	1500 mm	+/- 4%	8122-6

Dual Way Torque Wrenches

1/4" 1/2" 48 60

- dual direction, right and left-turn
- with calibration certificate and serial number
- extra fine scale
- with secondary scale in In-lb / Ft-lb
- sliding sleeve mechanism prevents accidental torque adjustment
- reversible ratchet head

Item	Drive	Measuring Range	Fine Scale	Teeth	Length	Tolerance	Art. No.
Torque Wrench	1/4"	2-10 Nm	0.05 Nm	60	193 mm	+/- 6%	8133-0
Torque Wrench	1/4"	5-25 Nm	0.1 Nm	48	245 mm	+/- 4%	8133-1
Torque Wrench	1/2"	20-100 Nm	0.5 Nm	48	410 mm	+/- 4%	8133-2
Torque Wrench	1/2"	40-200 Nm	1.0 Nm	48	520 mm	+/- 4%	8133-3

Torque Wrenches

1/4" 3/8" 1/2" 72

- single actuation (only right-turn)
- with calibration certificate and serial number
- extra fine scale
- locking ring prevents unintentional movement of torque setting
- ergonomic handle design for convenient operation
- reversible ratchet head with 72 teeth

Item	Drive	Measuring Range	Fine Scale	Teeth	Length	Tolerance	Art. No.
Torque Wrench	1/4"	5-25 Nm	0.25 Nm	72	240 mm	+/- 3%	8144-0
Torque Wrench	3/8"	10-60 Nm	0.5 Nm	72	300 mm	+/- 3%	8144-1
Torque Wrench	3/8"	20-120 Nm	1.0 Nm	72	400 mm	+/- 3%	8144-2
Torque Wrench	1/2"	20-200 Nm	1.0 Nm	72	505 mm	+/- 3%	8144-3
Torque Wrench	1/2"	65-350 Nm	1.5 Nm	72	565 mm	+/- 3%	8144-4

Torque Wrenches

3/8" 3/4" 1" 24

- single actuation (only right-turn)
- quick adjust and lock system
- reversible ratchet head
- supplied in storage case

Item	Drive	Measuring Range	Fine Scale	Teeth	Length	Tolerance	Art. No.
Torque Wrench	3/8"	6-30 Nm	0.2 Nm	24	295 mm	+/- 4%	95-0
Torque Wrench	3/4"	100-500 Nm	2.5 Nm	24	860 mm	+/- 4%	95-4
Torque Wrench	3/4"	140-700 Nm	2.5 Nm	24	1085 mm	+/- 4%	95-5
Torque Wrench	1"	140-980 Nm	2.5 Nm	24	1225 mm	+/- 4%	95-6
Torque Wrench	3/4"	140-980 Nm	2.5 Nm	24	1225 mm	+/- 4%	95-7

Torque Wrenches

- single actuation (only right-turn)
- reversible ratchet head
- supplied in storage case

Item	Drive	Measuring Range	Fine Scale	Teeth	Length	Tolerance	Art. No.
Torque Wrench	3/8"	14-110 Nm	0.1 Nm	45	275 mm	+/- 4%	96-1
Torque Wrench	1/2"	28-210 Nm	1.0 Nm	24	465 mm	+/- 4%	96-2

Torque Wrench, VDE, 3/8", 10-50 Nm

- single actuation (only right-turn)
- with certificate of conformance and serial number
- scale graduation: 2.5 Nm, setting: 0.25 Nm
- with secondary scale in lbf ft
- rotary handle can be locked to prevent unintentional adjustment
- for working with voltages of up to 1.000V
- protective insulation according to DIN ISO EN 60900

Item	Drive	Measuring Range	Fine Scale	Tolerance	Art. No.
Torque Wrench	3/8"	10-50 Nm	0.5 Nm	+/- 4%	30950

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Repair Kits for Torque Wrenches

- for product series No. 8122 and 8133

Item	Drive	Repair Kit for Nr.	Art. No.
Repair Kit	1/4"	for 8122-0, 8133-1	8122-14
Repair Kit	1/4"	for 8133-0	8133-14
Repair Kit	3/8"	for 8122-1	8122-38
Repair Kit	1/2"	for 8122-2, 8133-2	8133-12
Repair Kit	1/2"	for 8122-3, 8133-3	8122-12
Repair Kit	1/2"	for 8122-4	8122-22
Repair Kit	3/4"	for 8122-5	8122-34
Repair Kit	1"	for 8122-6	8122-10

Repair Kits for Torque Wrenches

- for product series No. 8144

Item	Drive	Repair Kit for Nr.	Art. No.
Repair Kit	1/4"	for 8144-0	8144-R14
Repair Kit	3/8"	for 8144-1 + 8144-2	8144-R38
Repair Kit	1/2"	for 8144-3 + 8144-4	8144-R12

Repair Kits for Torque Wrenches

- for product series No. 95

Item	Drive	Repair Kit for Nr.	Art. No.
Repair Kit	1/4"	for 95-00	95-140
Repair Kit	3/8"	for 95-0	95-380
Repair Kit	3/8"	for 95-1	95-381
Repair Kit	1/2"	for 95-2	95-122
Repair Kit	1/2"	for 95-3	95-123
Repair Kit	3/4"	for 95-4	95-344
Repair Kit	3/4"	for 95-5	95-345
Repair Kit	1"	for 95-6	95-106

Repair Kits for Torque Wrenches

- for product series No. 96

Item	Drive	Repair Kit for Nr.	Art. No.
Repair Kit	1/4"	for 96-00	96-140
Repair Kit	3/8"	for 96-0	96-380
Repair Kit	3/8"	for 96-1	96-381
Repair Kit	1/2"	for 96-2	96-122

96-140, 96-380, 96-122

96-381

Torque Wrench

1/4"

- audible click when torque is reached, quick adjust and lock system
- includes certificate
- supplied in storage case

Item	Drive	Measuring Range	Length	Art. No.
Torque Wrench	1/4"	2 - 10 Nm	165 mm	8210

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Torque Screwdriver, 1/4" hexagon, 1.4 Nm

6,3mm 1/4"

- preset to 1.4 Nm, automatic release
- 1/4" hexagon with magnet for 1/4" bits
- with test certificate and serial number

Item	Drive	Measuring Range	Art. No.
Torque Screwdriver	1/4" hex	1.4 Nm	8214

Digital Torque Adapter

1/2"

- for right- and left-handed threads
- includes certificate
- 2 display modes: Trace and Peak
- memory for 50 settings
- units: Nm, lbf/ft, lb/in, kg/m, kg/cm
- LCD-display

Item	Drive	Measuring Range	Tolerance	Art. No.
Digital Torque Adapter	1/2"	40 - 200 Nm	+/- 2%	5038

Torque Multipliers

1/2" 3/4"

- multiply ratio 1:3
- supplied in storage case

Item	Drive	Square (male)	Measuring Range	Art. No.
Torque Multiplier	1/2"	3/4"	max. 1400 Nm	97-1
Torque Multiplier	3/4"	1"	max. 2700 Nm	97-2

Torque Angle Gauge

- 0 - 360° angular scale
- with angular arm and set screw

Item	Drive	Art. No.
Torque Angle Gauge	1/2"	98

Torque Angle Gauge

- with magnetic arm
- high accuracy

Item	Drive	Measuring Range	Art. No.
Torque Angle Gauge	1/2"	max. 280 Nm	99-1

Torque Wrench

- dual scale
- for forward and reverse operations

Item	Drive	Measuring Range	Art. No.
Torque Wrench	1/2"	0 - 200 Nm	100

Tire Pressure Monitoring System Service Kit, 16 pcs.

- for mounting and dismounting of the special TPMS sensors and tire valves
- for the common systems from Siemens VDO, Beru, Schrader, etc.
- torque spanner (2-10 Nm) for union nuts, with automatic click release and quick adjust and lock system, including test certificate
- preset torque wrench (1.4 Nm) for the screws of most systems

Content	Drive	Measuring Range	Length	Profile	Size	Art. No.
Torque Wrench	1/4"	2 - 10 Nm	165 mm			8210
Torque Screwdriver	1/4" hex	1.4 Nm				8214
T-Handle	1/4"		70 mm			8200-TG
Socket Bit	1/4"		37 mm	TX-Star T	T20	14033-20
Socket	1/4"		deep	hexagon	11 mm	21299-11
Socket	1/4"		deep	hexagon	12 mm	21299-12
Extension Bar	1/4"		100 mm			21105
Counter Holder			50x15 mm		2 mm	*8200-WK2*
Counter Holder			55x20 mm		3 mm	*8200-WK3*
Torque Valve Screw Tool						8245
Torque Valve Screw Tool						8225

Item	Art. No.
Tire Pressure Monitoring System Service Kit	8201

Torque Valve Screw Tool

8225

8245

- prevents overtightening when assembling valve inserts
- audible click when torque is reached

Item	Torque max.	Application	Art. No.
Torque Valve Screw Tool	limited to 0.25 Nm	for rubber valves	8225
Torque Valve Screw Tool	limited to 0.45 Nm	for steel valves	8245

Pullers

Universal Puller Set, xcess performance, 13 pcs.

- 2 and 3 arms, narrow hooks for confined spaces
- spread: ø 40 - 125 mm
- reach: 100, 210, 255 mm
- 2 yokes, 2 arm and 3 arm
- 2 spindles with fine thread, 17 mm hexagon drive
- 9 hooks

Content	Throat Depth	Length	Spread	Art. No.
Puller Arm	100 mm			*3490-100*
Puller Arm	210 mm			*3490-210*
Puller Arm	255 mm			*3490-255*
Spindle, fine pitch thread		160 mm		*3490-160*
Spindle, fine pitch thread		270 mm		*3490-270*
Yoke, 2-arm			40 - 125 mm	*3490-2*
Yoke, 3-arm			40 - 125 mm	*3490-3*

Item	pcs	Art. No.
Universal Puller Set	13	37490

Universal Puller Set, 13 pcs.

- 2 and 3 arms, narrow hooks for confined spaces
- spread: ø 40 - 125 mm
- reach: 100, 210, 255 mm
- 2 yokes, 2 arm and 3 arm
- 2 spindles with fine thread, 17 mm hexagon drive
- 9 hooks

Content	Throat Depth	Length	Spread	Art. No.
Puller Arm	100 mm			*3490-100*
Puller Arm	210 mm			*3490-210*
Puller Arm	255 mm			*3490-255*
Spindle, fine pitch thread		160 mm		*3490-160*
Spindle, fine pitch thread		270 mm		*3490-270*
Yoke, 2-arm			40 - 125 mm	*3490-2*
Yoke, 3-arm			40 - 125 mm	*3490-3*

Item	pcs	Art. No.
Universal Puller Set	13	3490

Universal Puller Set, 12 pcs.

- 2 and 3 arms, narrow hooks for confined spaces
- spread: ø 50 - 160 mm
- reach: 150, 225, 300 mm
- 2 yokes, 2 arm and 3 arm
- 1 spindle with fine thread, 22 mm hexagon drive
- 9 hooks

Content	Throat Depth	Length	Spread	Art. No.
Puller Arm	150 mm			*3500-150*
Puller Arm	225 mm			*3500-225*
Puller Arm	300 mm			*3500-300*
Spindle, fine pitch thread		240 mm		*3500-240*
Yoke, 2-arm			50 - 160 mm	*3500-2*
Yoke, 3-arm			50 - 160 mm	*3500-3*

Item	pcs	Art. No.
Universal Puller Set	12	3500

Reversible 3-Arm Puller Set, 7 pcs.

- quick mounting of hooks and locking with knurled screw
- spring mechanism enables self-centering and tensioning
- can be used as 2 or 3 arm puller
- content:
  3x internal puller hooks, spread ø 50 - 170 mm, reach 190 mm
  3x external puller hooks, spread ø 10 - 180 mm, reach 190 mm
  1x spindle with fine thread

Item	Description	pcs	Art. No.
Reversible 3-Legged Puller Set	self-tensioning	7	3475

Parallel Puller

- 2-arm, forged

Item	External Spread	Internal Spread	Throat Depth	Art. No.
Parallel Puller	25 - 130 mm	60 - 180 mm	100 mm	5400-120
Parallel Puller	50 - 200 mm	100 - 260 mm	150 mm	5400-200

Puller Set, 4 pcs.

- for separating bearings, gear wheels, sprockets etc.
- reversible for internal and external
- drop forged
- spindle with trapezoid thread for strong forces and low wear
- swivelling legs provide maximum flexibility for adjusting spread and depth
- with 360° center spike (except item No. 5402-075)

Content	Throat Depth	Description	Arms	Art. No.
Puller	75 mm	trapezoid thread	2	5402-075
Puller	100 mm	trapezoid thread, with 360° center spike	2	5402-100
Puller	100 mm	trapezoid thread, with 360° center spike	3	5403-100
Puller	150 mm	trapezoid thread, with 360° center spike	3	5403-150

Item	pcs	Art. No.
Puller Set	4	5404

5402-100

2-Arm and 3-Arm Pullers

- for separating bearings, gear wheels, sprockets etc.
- reversible for internal and external
- drop forged
- spindle with trapezoid thread for strong forces and low wear
- swivelling legs provide maximum flexibility for adjusting spread and depth
- with 360° center spike (except items No. 5402-075 and 5403-075)

Item	Throat Depth	Description	Arms	Art. No.
Puller	75 mm	trapezoid thread	2	5402-075
Puller	100 mm	trapezoid thread, with 360° center spike	2	5402-100
Puller	150 mm	trapezoid thread, with 360° center spike	2	5402-150
Puller	200 mm	trapezoid thread, with 360° center spike	2	5402-200
Puller	75 mm	trapezoid thread	3	5403-075
Puller	100 mm	trapezoid thread, with 360° center spike	3	5403-100
Puller	150 mm	trapezoid thread, with 360° center spike	3	5403-150
Puller	200 mm	trapezoid thread, with 360° center spike	3	5403-200

5403-075

Long Reach External Puller

- extra long external puller, chrome-vanadium-steel, forged

Item	External Spread	Throat Depth	Art. No.
Long Reach External Puller	10 - 50 mm	300 mm	5420

Hydraulic Puller Set, xcess performance

- for pulling ball bearings, pulleys, sprockets, bushes etc.
- hydraulic spindle No. 5501 with 12 t
- content:
  1 hydraulic spindle with centering pin
  9 hooks
  1 bearing separator max. ø 105 mm
  div. 2 and 3-arm yokes
  div. extensions

Item	Throat Depth	Art. No.
Hydraulic Puller Set	100, 150, 200 mm	37515

Hydraulic Puller Set

- for pulling ball bearings, pulleys, sprockets, bushes etc.
- hydraulic spindle with 10 t
- content:
  1 hydraulic spindle with centering pin
  9 hooks
  1 bearing separator max. ø 105 mm
  div. 2 and 3-arm yokes
  div. extensions

Item	Throat Depth	Art. No.
Hydraulic Puller Set	100, 150, 200 mm	5515

Ball Bearing Separator Set, 14 pcs.

- for pulling ball bearings, roller-bearings, inner rings etc.
- content:
  2 bearing separators, 32 - 56, 56 - 78 mm
  1 thrust bolt, 1 yoke
  2 short tension bolts, 2 long tension bolts
  2 short extensions, 2 long extensions
  2 puller arms

Item	pcs	Art. No.
Ball Bearing Separator Set	14	4547

Bearing Separators

- for gear wheels and firmly seated components, forged and hardened

Item	Spread	Art. No.
Bearing Separator	30 - 50 mm	4549
Bearing Separator	50 - 75 mm	4551
Bearing Separator	75 - 115 mm	4552

Blind Hole Bearing Puller Set, 11 pcs.

- for inner ø 8 - 34 mm
- for pulling ball bearings, even in blind hole bores
- with counter support and drawing spindle or sliding hammer
- manufactured from specialist steel, hardened and tempered

Content	Description	Art. No.
Sliding Hammer	striking weight 910 g	*5429-SH*
Counter Support	with pull spindle	*5429-GS*
Expander	for ø 8 - 11 mm	*5429-08*
Expander	for ø 12 - 17 mm	*5429-12*
Expander	for ø 18 - 23 mm	*5429-18*
Expander	for ø 24 - 29 mm	*5429-24*
Expander	for ø 30 - 34 mm	*5429-30*
Extraction Bolt	for internal thread M6x1.0	*5429-M6*
Extraction Bolt	for internal thread M8x1.25	*5429-M8*
Extraction Bolt	for internal thread M10x1.5	*5429-M10*
Spare bolt for expander	length 125 mm	*5429-SD*

Item	pcs	Art. No.
Blind Hole Bearing Puller Set	11	5429

Internal Bearing Puller, 13 pcs.

- for ball bearings with housing
- suitable for following bearings: Nr. 6004-6010, Nr. 6201-6206, Nr. 6300-6304
- content:
  1 yoke, 1 spindle
  2 arms, 2 extensions
  6 puller hooks

Item	for Ø	pcs	Art. No.
Internal Bearing Puller	20-95 mm	13	5430

Bearing Puller

- suitable for quick pulling of small ball bearings
- clamping nut prevents arms from slipping off
- tensile force up to 1000 kg

Item	Spread	Throat Depth	Art. No.
Bearing Puller	19 - 45 mm	75 mm	5415

Air Tools and Accessory

Impact Wrench, 1/2″, max. 1400 Nm

- extra light construction with maximum torque
- convenient one-hand switching, exhaust air routing through the handle
- durable high-performance double hammer mechanism
- tightening torque adjustable in 4 power levels, full power for loosening
- connection thread 1/4″, recommended inner hose diameter 3/8″ (10 mm)
- sound pressure level 90 db(A)
- operating pressure max. 6.2 bar (90 psi)

Item	Torque max.	Speed	Air Consumption	Drive	Weight	Art. No.
Impact Wrench	1400 Nm	10.000 rpm	161 l/min	1/2"	1.27 kg	8836

Impact Wrench, 1/2″, max. 1950 Nm

- extra light construction with maximum torque
- convenient one-hand switching, exhaust air routing through the handle
- durable high-performance double hammer mechanism
- tightening torque adjustable in 4 power levels, full power for loosening
- connection thread 1/4″, recommended inner hose diameter 3/8″ (10 mm)
- sound pressure level 94 db(A)
- operating pressure max. 6.2 bar (90 psi)

Item	Torque max.	Speed	Air Consumption	Drive	Weight	Art. No.
Impact Wrench	1950 Nm	8600 rpm	161 l/min	1/2"	2.16 kg	8832

Impact Wrench, 3/4″, max. 1950 Nm

- extra light construction with maximum torque
- convenient one-hand switching, exhaust air routing through the handle
- durable high-performance double hammer mechanism
- tightening torque adjustable in 4 power levels, full power for loosening
- connection thread 1/4″, recommended inner hose diameter 3/8″ (10 mm)
- sound pressure level 94 db(A)
- operating pressure max. 6.2 bar (90 psi)

Item	Torque max.	Speed	Air Consumption	Drive	Weight	Art. No.
Impact Wrench	1950 Nm	8600 rpm	161 l/min	3/4"	2.21 kg	8842

Impact Wrench, 3/4″, max. 2034 Nm

- extra light construction with maximum torque
- convenient one-hand switching, exhaust air routing through the handle
- durable high-performance double hammer mechanism
- tightening torque adjustable in 4 power levels, full power for loosening
- connection thread 3/8″, recommended inner hose diameter 1/2″ (13 mm)
- sound pressure level 96.3 db(A)
- operating pressure max. 6.2 bar (90 psi)

Item	Torque max.	Speed	Air Consumption	Drive	Weight	Art. No.
Impact Wrench	2034 Nm	5500 rpm	246 l/min	3/4"	3.44 kg	8841

Impact Wrench, 1″, max. 2441 Nm

- extra light construction with maximum torque
- convenient one-hand switching, exhaust air routing through the handle
- durable high-performance double hammer mechanism
- tightening torque adjustable in 4 power levels, full power for loosening
- connection thread 1/2″, recommended inner hose diameter 1/2″ (13 mm)
- sound pressure level 96.9 db(A)
- operating pressure max. 6.2 bar (90 psi)

Item	Torque max.	Speed	Air Consumption	Drive	Weight	Art. No.
Impact Wrench	2441 Nm	6000 rpm	226 l/min	1"	7.5 kg	8851

Magnetic Holder for Impact Wrench

- 2 extra strong magnets, max. weight capacity 25 kg
- easy mounting to lifting platforms and other metal surfaces
- open ring holder prevents accidental triggering of impact wrench
- holding devices for:
  5 wheel nut sockets
  1 impact wrench
  1 torque wrench

Item	Description	Art. No.
Magnetic Holder for Impact Wrench	max. weight 25 kg	8101

Pneumatic Die Grinder, 0.35 HP

- for grinding, milling, deburring, polishing etc.
- compact design at maximum torque
- straight design, comfortable one-hand operation
- trouble-free air exhaust at the end of the handle
- with spindle lock for quick tool change
- with power regulator for precise work

Item	Speed	Air Consumption	Operating Pressure max.	Weight	Art. No.
Die Grinder	25.000 rpm	104 l/min	6.2 bar (90 psi)	0.5 kg	8860

Die Grinder and Carbide Burr Set, 12 pcs.

- for grinding, milling, deburring, polishing etc.
- compact design at maximum torque
- straight design, comfortable one-hand operation
- trouble-free air exhaust at the end of the handle
- ø 6 mm form A, B, C, G
- ø 10 mm form A, B, C, D, F, G
- ø 12 mm form B aluminium toothing

Content	Ø	Description	Shaft	Art. No.
Die Grinder				8860
Carbide Burr	6 mm	cylinder without end cut (A)	6 mm	9801-06
Carbide Burr	6 mm	cylinder with end cut (B)	6 mm	9802-06
Carbide Burr	6 mm	pointed tree shape (G)	6 mm	9807-06
Carbide Burr	10 mm	cylinder without end cut (A)	6 mm	9801-10
Carbide Burr	10 mm	cylinder with end cut (B)	6 mm	9802-10
Carbide Burr	10 mm	oval (C)	6 mm	9803-10
Carbide Burr	10 mm	ball type (D)	6 mm	9804-10
Carbide Burr	10 mm	tree shape with radius end (F)	6 mm	9806-10
Carbide Burr	10 mm	pointed tree shape (G)	6 mm	9807-10
Carbide Burr, aluminium toothing	12 mm	cylinder with end cut (B)	6 mm	9822-12

Item	Speed	Air Consumption	pcs	Art. No.
Die Grinder and Carbide Burr Set	25.000 rpm	104 l/min	12	39800

Pneumatic Erasing Machine, incl. 1 eraser disc

- suitable for eraser discs with connection thread 5/16-24 UNF
- compact design at maximum torque
- straight design, comfortable one-hand operation
- trouble-free air exhaust at the end of the handle
- for removing remainders on painted surfaces, e.g. stickers, adhesives, colour and balancing weights on wheel
- air connection: 1/4″, recommended inner hose diameter: 3/8″ (9.5 mm)
- sound pressure level 89 db(A)
- operating pressure max. 6.2 bar (90 psi)

Item	Speed	Air Consumption	Weight	Art. No.
Pneumatic Erasing Machine	3.500 U/min	113 l/min	1.0 kg	8802

Pneumatic Corner Grinder, 1 HP motor, extra flat head

- suitable for grinding discs: 100x1x10 mm, 100x1x16 mm
- long model with flat head, clearance 39 mm
- regulating screw for adjusting idle speed
- spindle locking mechanism for quick changing of grinding disc
- spark protection with quick release clamp, 90° adjustable
- ideal for cutting metal, exhaust pipes and body sheets
- technical data:
  air inlet: 1/4″
  recommended hose inner-ø: 3/8″ (9.5 mm)
  working pressure max. 6.2 bar (90 psi)
  sound pressure level: 83.8 db(A), 98.1 db(C)
  sound power level: 94.8 db(A)
  vibration: 2.25 m/s²

Item	Speed	Air Consumption	Description	Weight	Art. No.
Corner Grinder	14000 rpm	116 l/min	1 HP / 0.75 kW	1.4 kg	8870

Cutting Wheel, ø 100 mm

- for cutting sheet steel, e.g. exhaust pipes, car body sheets etc.
- also suitable for stainless steel
- corresponds to EN12413, OSA and FEPA standards
- to be used with pneumatic corner grinder No. 8870
- intake: 10 mm
- wheel strength: 1.0 mm
- cutting speed: 80 m/s
- high quality with long service life, manufactured in the EU

Item	Speed	Ø	Quantity	Art. No.
Cutting Wheel	15300 rpm	100 mm	1 pcs.	8799
Cutting Wheel	15300 rpm	100 mm	25 pcs.	8799-25

Air Spot Drill

- with automatic contact pressure and removable hook
- to break up welding spots on car body sheet metal
- for spot weld cutters with 8 mm shank
- adjustable drilling depth
- air inlet 1/4"
- noise level 85 db
- with clamping hook, working depth 5.5 cm

Item	Speed	Air Consumption	Operating Pressure max.	Art. No.
Air Spot Drill	1600 rpm	170 l/min	6.3 bar (90 psi)	8862

accessory

Item	Art. No.
Accessory Hook for Air Spot Drill, 5"	8862-5
Spot Weld Cutter, 8x44 mm, HSS Co5, 5 pcs.	8770
Spot Weld Cutter, 8x44 mm, HSS Co5 TiCN, 5 pcs.	8771

8862-5

8771

Air Hammer

- powerful air hammer, universal tool for loosening corroded or tight connections
- the combination of long stroke and large piston produces over 2000 highly powerful impacts per minute
- these vibrations loosen wheel bearings, bushes, conical seat connections (e.g. in track rod ends) and corroded screw connections
- the vibrations support intrusion of grease, thus helping with disassembly of silent bushes
- to be applied with specialist chisel set Nr. 8760 and other specialist accessory, making it a universal helper in any workshop
- can of course also be used for any standard application requiring chisels
- with quick coupling for chisel intake
- technical data:
  air inlet: 1/4"
  blows per minute: 2100
  piston stroke: 92 mm
  recommended hose inner-ø: 3/8" (9.5 mm)
  working pressure: 6.2 bar

Item	Description	Round Shank	Weight	Art. No.
Air Hammer	quick release coupler	ø 10 mm	1.9 kg	8810

clamp bolt removal (with No. 8751)

track rod end removal (with No. 8760)

wheel hub disassembly (with No. 8752 + 5452)

accessory

Item	Art. No.
Bearing and Seal Driver Set, 51 pcs., ø 18-74 mm	5452
Bearing and Seal Driver Set, 21 pcs., ø 70-150 mm	5453
Pin Punch, clamp bolt VW twin steering knuckles, 3 pcs.	8750
Thrust Plate Adapter, for using No. 5452 with air hammer	8752
Specialist Chisel Set, 3 pcs., for air hammers	8760
Pin Punch, clamp bolt VW twin steering knuckles, ø 6.2 mm	8751
Exhaust Pipe Chisel Set	8762

13

Specialist Chisel Set, 3 pcs.

- impact socket adapter, for loosening tight and corroded screws through impacts and turn movement
- impact chisel, flat head, universal application for many tight connections, e.g. wheel bearings, bushes, ball pins, silent bushes, conical seats
- impact chisel, radial milled head, for loosening track rod connections

Content	Description	Round Shank	Art. No.
Socket Adapter for Air Hammer	1/2", 19 mm hexagon	ø 10 mm	*8760-1*
Impact Chisel, head ø 25 mm	radial milled head	ø 10 mm	*8760-2*
Impact Chisel, head ø 25 mm	flat head	ø 10 mm	*8760-3*

Item	Round Shank	pcs	Art. No.
Specialist Chisel Set	ø 10 mm	3	8760

Thrust Plate Adapter

- to apply thrust plates from bearing and set drivers sets Nr. 5452 and 5453 with impact hammers with round shank ø 10 mm

Item	Round Shank	Art. No.
Thrust Plate Adapter	ø 10 mm	8752

accessory

Item	Art. No.
Bearing and Seal Driver Set, 51 pcs., ø 18-74 mm	5452
Bearing and Seal Driver Set, 21 pcs., ø 70-150 mm	5453

Chisel Set, 5 pcs.

- suitable for all common air hammers, e.g. Condor No. 8810

Content	Description	Round Shank	Length	Art. No.
Flat Chisel	straight type	ø 10 mm	180 mm	*8765-01*
Flat Chisel	for breaking rivets and spot welds	ø 10 mm	180 mm	*8765-02*
Sheet Metal Trimmer Chisel	self guiding	ø 10 mm	180 mm	*8765-03*
Exhaust Pipe Chisel		ø 10 mm	180 mm	*8765-04*
Point Chisel	round	ø 10 mm	180 mm	*8765-05*

Item	Round Shank	Length	pcs	Art. No.
Chisel Set	ø 10 mm	180 mm	5	8765

Pin Punch Set, extra long, 6 pcs.

- different diameters for the most popular bolt sizes
- reduced shaft with specialist profile prevents the punch from getting stuck in bore hole
- suitable for all common air hammers, e.g. Condor No. 8810

Content	Ø	Round Shank	Length	Art. No.
Pin Punch	5.2 mm	ø 10 mm	180 mm	*8759-01*
Pin Punch	6.5 mm	ø 10 mm	180 mm	*8759-02*
Pin Punch	6.9 mm	ø 10 mm	180 mm	*8759-03*
Pin Punch	7.7 mm	ø 10 mm	180 mm	*8759-04*
Pin Punch	9.3 mm	ø 10 mm	180 mm	*8759-05*
Pin Punch	12.7 mm	ø 10 mm	180 mm	*8759-06*

Item	Ø	Round Shank	Length	pcs	Art. No.
Pin Punch Set	5.2-12.7 mm	ø 10 mm	180 mm	6	8759

Air Underbody Coating Gun

- spray nozzle with ø 5 mm for underbody protection
- incl. 550 mm flexible hose for body cavity preservation with specialist probe head for optimal dispersion
- suitable for all common cartridges

Item	Art. No.
Air Underbody Coating Gun	8880

Air Paint Spray Gun, 600 ml

- 3 spray nozzles made from stainless steel: 1.4 - 1.7 - 2.0 mm
- HVLP paint spray gun, up to 30% less paint consumption
- 600 ml plastic cup
- also suitable for water-based paints
- stepless air and paint volume regulation as well as adjustable spray jet
- robust, durable and ergonomic design
- air inlet: 1/4″
- includes 5 colour filters

Item	Air Consumption	Operating Pressure max.	Art. No.
Air Paint Spray Gun	170 l/min	2 - 3.5 bar	8873

accessory

Item	Art. No.
Replacement Nozzle, ø 1.4 mm, for air paint spray gun, incl. needle + airplug	8873-01
Replacement Nozzle, ø 1.7 mm, for air paint spray gun, incl. needle + airplug	8873-02
Replacement Nozzle, ø 2.0 mm, for air paint spray gun, incl. needle + airplug	8873-03

Mini Air Paint Spray Gun, 120 ml

- spray nozzle 0.8 mm
- HVLP paint spray gun, up to 30% less paint consumption
- 120 ml plastic cup
- compact, ergonomic design
- also suitable for water-based paints
- stepless air and paint volume regulation as well as adjustable spray jet
- robust, durable and ergonomic design
- air inlet: 1/4″
- includes 5 colour filters

Item	Air Consumption	Operating Pressure max.	Art. No.
Air Paint Spray Gun	170 l/min	2 - 3.5 bar	8874

accessory

Item	Art. No.
Replacement Nozzle, ø 0.8 mm, for air paint spray gun, incl. needle + airplug	8874-01

Air Inflator with Gauge

- with flexible hose, 500 mm
- scale ø 80 mm

Item	Measuring Range	Art. No.
Air Inflator With Gauge	0 - 10 bar	8070

accessory

Item	Art. No.
Air Plug, 6 mm	8076
Spare Hose for Tyre Inflator, 540 mm	8077

Air Inflator with Gauge, calibrated

- one-lever-operation for filling, releasing and checking
- with flexible hose, 540 mm
- clip-on air chuck for easy connection to valve
- solid aluminium body with calibrated gauge
- oil and shock resistant rubber coating
- scale ø: 60 mm (56 mm visible)
- max. operating pressure: 10 bar
- manufactured according to directive 86/217/EWG

Item	Measuring Range	Art. No.
Air Inflator with Gauge	0 - 10 bar	8075

accessory

Item	Art. No.
Air Plug, 6 mm	8076
Spare Hose for Tyre Inflator, 540 mm	8077

Air Plug, 6 mm

- wear part for tyre air inflators with 6 mm inner tube diameter
- fastening by hose clamp (not included)
- brass version

Item	Art. No.
Air Plug	8076

Spare Hose for Tyre Inflator, 540 mm

- including tyre inflation nipple
- suitable for tyre inflator with 1/4 connection thread

Item	Art. No.
Spare Hose for Tyre Inflator	8077

Blow Gun, with vortex swirl

- a rotating air hose in the trumpet shaped head nozzle generates strong air pulses for powerful dry cleaning, even in hard-to-reach areas
- for cleaning dashbords, floor mats, air vents, upholstery, rims, seat rails etc.
- ideal for removing animal hair

Item	Operating Pressure max.	Art. No.
Blow Gun	16 bar	8892

Air Duster with Venturi Nozzle, 45 mm

- venturi-nozzle for higher airflow with the same air use
- ideal for cleaning work
- low weight and robust aluminum frame
- air inlet: 3/8"

Item	Operating Pressure max.	Description	Art. No.
Air Duster	16 bar	nozzle length 45 mm	8895

Air Duster with Venturi Nozzle, 290 mm

- with extra long nozzle, ideal for confined spaces
- venturi-nozzle for higher airflow with the same air use
- ideal for cleaning work
- low weight and robust aluminum frame
- air inlet: 3/8"

Item	Operating Pressure max.	Description	Art. No.
Air Duster	16 bar	nozzle length 290 mm	8896

Air Duster with Flow Regulator

- aluminium body
- short nozzle for confined areas, long nozzle (112 cm) with scratch protection
- air inlet 1/4", either through handle or head
- max. pressure 10 bar
- with flow regulater
- noise level 86 dB (A)

Item	Air Consumption	Operating Pressure max.	Art. No.
Air Duster	330 l/min	6.3 bar (90 psi)	8890

Sealing Cone Set, for Air Duster No. 8890, 3 pcs.

- three rubber cone attachments with ø 13, 25 and 35 mm
- for cleaning clogged or dirty lines and hoses using compressed air
- application on e.g. fuel-, air conditioning-, AdBlue®- and hydraulic lines, as well as the wind-shield washer and cooling system
- especially useful for loosening stuck spark plug connectors on pencil ignition coils in almost all VAG Group vehicles with petrol engines

Item	Ø	pcs	Art. No.
Sealing Cone Set	13, 25, 35 mm	3	8891

Air Quick Coupler, with 2-step safety function

- for safely unlocking air tools in 2 steps:
  step 1: let air escape while keeping tool fixed to the coupler
  step 2: disconnect air tool from coupler
- max. working pressure: 10 bar
- air flow: 1982 L/min

Item	Operating Pressure max.	Description	Art. No.
Air Quick Coupler	10 bar	connection: 1/4" internal thread	8050
Air Quick Coupler	10 bar	connection: 1/4" external thread	8051
Air Quick Coupler	10 bar	connection: 10 mm hose	8052
Air Quick Coupler	10 bar	connection: 12 mm hose	8053
Air Quick Coupler	10 bar	connection: 3/8" external thread hose	8054
Air Quick Coupler	10 bar	connection: 1/2" external thread hose	8055

Air Quick Coupler

- working pressure: 15 bar
- max. operating pressure: 20 bar

Item	Operating Pressure max.	Description	Art. No.
Air Quick Coupler	20 bar	connection: 1/4" internal thread, BSPP	8046
Air Quick Coupler	20 bar	connection: 1/4" external thread, BSPP	8030
Air Quick Coupler	20 bar	connection: 3/8" internal thread, BSPP	8047
Air Quick Coupler	20 bar	connection: 3/8" external thread, BSPP	8031
Air Quick Coupler	20 bar	connection: 1/2" internal thread, BSPP	8048
Air Quick Coupler	20 bar	connection: 1/2" external thread, BSPP	8032
Air Quick Coupler	20 bar	connection: 1/4" external thread, BSPT	8036
Air Quick Coupler	20 bar	connection: 3/8" external thread, BSPT	8037
Air Quick Coupler	20 bar	connection: 1/2" external thread, BSPT	8038

Pneumatic Air Nipple

- working pressure: 15 bar
- max. operating pressure: 20 bar

Item	Operating Pressure max.	Description	Art. No.
Pneumatic Air Nipple	20 bar	connection: 1/4" internal thread, BSPP	8043
Pneumatic Air Nipple	20 bar	connection: 1/4" external thread, BSPP	8033
Pneumatic Air Nipple	20 bar	connection: 3/8" internal thread, BSPP	8044
Pneumatic Air Nipple	20 bar	connection: 3/8" external thread, BSPP	8034
Pneumatic Air Nipple	20 bar	connection: 1/2" internal thread, BSPP	8045
Pneumatic Air Nipple	20 bar	connection: 1/2" external thread, BSPP	8035
Pneumatic Air Nipple	20 bar	connection: 1/4" external thread, BSPT	8040
Pneumatic Air Nipple	20 bar	connection: 3/8" external thread, BSPT	8041
Pneumatic Air Nipple	20 bar	connection: 1/2" external thread, BSPT	8042

Mini Oiler

- for automatic oiling
- to be connected between pneumatic tool and coupler

Item	Description	Art. No.
Mini Oiler	refillable	8060

Air Hose Reel, high-end rubber, ø 10 mm x 15 m

- auto retractabale heavy duty
- adjustable guide arm
- includes 1 m lead-in hose
- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose Reel	20 bar	without coupler	15 m	10 mm	44100-1
Air Hose Reel	20 bar	with quick coupler	15 m	10 mm	44100-2
Air Hose Reel	20 bar	with 2-step coupler	15 m	10 mm	44100-3

Air Hose Reel, high-end rubber, ø 13 mm x 15 m

- auto retractabale heavy duty
- adjustable guide arm
- includes 1 m lead-in hose
- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose Reel	20 bar	without coupler	15 m	13 mm	44200-1
Air Hose Reel	20 bar	with quick coupler	15 m	13 mm	44200-2
Air Hose Reel	20 bar	with 2-step coupler	15 m	13 mm	44200-3

Air Hose, high-end rubber, ø 6 mm x 15 m

- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose	20 bar	without coupler	15 m	6 mm	44015-1
Air Hose	20 bar	with quick coupler	15 m	6 mm	44015-2
Air Hose	20 bar	with 2-step coupler	15 m	6 mm	44015-3

Air Hose, high-end rubber, ø 10 mm x 5 m

- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose	20 bar	without coupler	5 m	10 mm	44105-1
Air Hose	20 bar	with quick coupler	5 m	10 mm	44105-2
Air Hose	20 bar	with 2-step coupler	5 m	10 mm	44105-3

Air Hose, high-end rubber, ø 10 mm x 10 m

- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose	20 bar	without coupler	10 m	10 mm	44110-1
Air Hose	20 bar	with quick coupler	10 m	10 mm	44110-2
Air Hose	20 bar	with 2-step coupler	10 m	10 mm	44110-3

Air Hose, high-end rubber, ø 10 mm x 15 m

- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose	20 bar	without coupler	15 m	10 mm	44115-1
Air Hose	20 bar	with quick coupler	15 m	10 mm	44115-2
Air Hose	20 bar	with 2-step coupler	15 m	10 mm	44115-3

Air Hose, high-end rubber, ø 10 mm x 20 m

- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose	20 bar	without coupler	20 m	10 mm	44120-1
Air Hose	20 bar	with quick coupler	20 m	10 mm	44120-2
Air Hose	20 bar	with 2-step coupler	20 m	10 mm	44120-3

Air Hose, high-end rubber, ø 13 mm x 5 m

- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose	20 bar	without coupler	5 m	13 mm	44205-1
Air Hose	20 bar	with quick coupler	5 m	13 mm	44205-2
Air Hose	20 bar	with 2-step coupler	5 m	13 mm	44205-3

Air Hose, high-end rubber, ø 13 mm x 10 m

- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose	20 bar	without coupler	10 m	13 mm	44210-1
Air Hose	20 bar	with quick coupler	10 m	13 mm	44210-2
Air Hose	20 bar	with 2-step coupler	10 m	13 mm	44210-3

Air Hose, high-end rubber, ø 13 mm x 15 m

- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose	20 bar	without coupler	15 m	13 mm	44215-1
Air Hose	20 bar	with quick coupler	15 m	13 mm	44215-2
Air Hose	20 bar	with 2-step coupler	15 m	13 mm	44215-3

Air Hose, high-end rubber, ø 13 mm x 20 m

- high-strength polyester braided reinforcement
- corrosion resistant brass fittings
- ozone resistant, abrasion resistant, kink resistant
- 4 finger grip bend restrictor
- flexibility -45°C to +87°C

Item	Operating Pressure max.	Description	Length	Inner-Ø	Art. No.
Air Hose	20 bar	without coupler	20 m	13 mm	44220-1
Air Hose	20 bar	with quick coupler	20 m	13 mm	44220-2
Air Hose	20 bar	with 2-step coupler	20 m	13 mm	44220-3

Timing Tools

Timing Tool Set, Audi / VW EA211 Evo

- for 1.0, 1.2, 1.4, 1.5 und 1.6 L TSi/TSFI petrol engines with variable camshaft settings
- for setting camshaft and cam phaser without using the computer linked original tool from VAG (VAS 611007)
- for almost all models from Audi, Cupra, Seat, Skoda und VW from 2015 onwards
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Holder	VAS611007 (+ 6617-03)	*6617-01*
Screws with Sleeves	VAS611007 (+ 6617-01)	*6617-03*
Camshaft Adapter Set	VAS611007/6 / VAS 611007/7	*6617-05*
Camshaft Adapter Set	VAS611007/16 / VAS 611007/17	*6617-06*
Torque Adapter	T10500	*6607*
Timing Belt Tensioner Wrench	T10499A	6605
Crankshaft Locking Bolt	T10340	*3518-03*
Locking Pin	T10504/1	*6617-04*
Calibration Angle		*6617-02*
Inclinometer		1337

Item	Art. No.
Timing Tool Set, Audi / VW EA211 Evo	36617B

for engine codes:
CAVF, CBZB, CHPA, CHPB, CHYA, CHYB, CHYC, CHYE, CHZA, CHZB, CHZC, CHZD, CHZE, CHZF, CHZG, CHZJ, CHZK, CHZL, CJZA, CJZB, CJZC, CJZD, CMBA, CNLA, CNUB, CPGA, CPTA, CPVA, CPVB, CPWA, CRJA, CTHF, CTJB, CUKB, CUKC, CVNA, CWRA, CWVA, CWVB, CXSA, CXSB, CXUA, CYVA, CYVB, CYVC, CYVD, CZBA, CZCA, CZCB, CZCC, CZDA, CZDB, CZDD, CZEA, CZTA, DACA, DACB, DADA, DAFA, DBYA, DFNB, DFYA, DGEA, DGEB, DGXA, DHFA, DJKA, DJKD, DJVA, DKJA, DKLA, DKLB, DKLC, DKLD, DKRA, DKRB, DKRC, DKRD, DKRE, DKRF, DLAA, DLAB, DLAC, DPBA, DPBC, DPBE, DPCA, DRBA, DUCA, DUCB, DUSA, DUSB, DXDB, DXDE, DXTA, DXUA

Camshaft Adapter with Holder, VAG 1.4L with ACT

- for 1.4 L TSI engines with cylinder cut-off (ACT, CoD or BlueGT)
- accessory to set No. 36617B

Item	OEM Comparison No.	Art. No.
Camshaft Adapter	VAS611007/14	6617-07

for engine codes:
CPTA, CZDB, CZEA

Guide Pin Set for Cam Phaser Shaft Sealing Ring, 2 pcs.

- for VAG 1.0 and 1.5 L EA211 EVO engines
- for aligning during assembly of shaft sealing ring on cam phaser
- shaft sealing ring must be replaced when disassembled
- for almost all models from Audi, Cupra, Seat, Skoda und VW from 2015 onwards
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Guide Pin	T10576	*6618-01*
Guide Pin	T10582	*6618-02*

Item	OEM Comparison No.	pcs	Art. No.
Guide Pin Set	T10576, T10582	2	6618

for engine codes:
DACA, DACB, DADA, DFNA, DFNB, DFYA, DHFA, DLAA, DLAB, DPBA, DPBC, DPBE, DPCA, DSGB, DSGD, DXDB

Timing Tool Set, Audi / VW

- for 1.0, 1.2 and 1.4L TFSI and TSI petrol engines with 3 and 4 cylinders
- for 1.4L TFSI engines with cylinder on demand technology
- also suitable for 1.6L petrol engines
- in VW Golf VI Cabrio, Golf VII, Golf Sportsvan, Jetta, Passat, Polo, Scirocco, Tiguan and Up
- in Audi A1, A3 and Q3
- in Seat Ateca, Ibiza V, Leon, Leon ST and Leon SC
- in Skoda Citigo, Fabia, Mii, Octavia, Rapid and Superb III
- for locking the camshafts and crankshaft
- for positioning the timing belt tensioner
- for timing belt replacement or engine repair

for engine codes:
CHPA, CHPB, CHYA, CHYB, CHYC, CHYD, CHYE, CHZA, CHZB, CHZC, CHZD, CHZE, CHZG, CHZJ, CHZK, CHZL, CJZA, CJZB, CJZC, CJZD, CMBA, CNLA, CPGA, CPTA, CPVA, CPVB, CPWA, CRJA, CUKB, CUKC, CVNA, CWLA, CWVA, CWVB, CXSA, CXSB, CXUA, CYVA, CYVB, CYVC, CYVD, CZCA, CZCB, CZCC, CZDA, CZDB, CZDD, CZEA, CZTA, DAFA, DJVA, DKJA

Content	OEM Comparison No.	Art. No.
Camshaft Locking Assembly Tool	T10487	*6614-01*
Camshaft Sprocket Locking Tool	T10476A	*6614-02*
Camshaft Locking Tool	T10494	*6614-03*
Camshaft Locking Tool	T10477	*6614-04*
Crankshaft Locking Bolt	T10340	*3518-03*
Tensioner Locking Pin	T10060A	*3520-24*
Timing Belt Tensioner Wrench	T10499A	6605
Camshaft Locking Tool	T10504	*6615-01*
Camshaft Locking Pin, short	T105041	*6615-02*
Camshaft Locking Pin, long	T105042	*6615-03*

Item	Art. No.
Timing Tool Set, Audi / VW	36614SP

accessory

Item	Art. No.
Camshaft Adjuster Locking Tool, Audi / VW 1.0L 3-cyl. MPi (EA211 Evo)	6614-05

Camshaft Adjuster Locking Tool, Audi / VW 1.0L 3-cyl. MPi (EA211 Evo)

- in VW POLO VI (AW1, BZ1, AE1) and VW UP! (121, 122, 123, BL1, BL2, BL3)
- in Seat Ibiza V (KJ1, KJG)
- in Skoda Fabia IV (PJ3)
- for locking the camshafts and camshaft adjusters
- for timing belt replacement or engine repair

for engine codes:
DFNA, DFNB, DSGA, DSGB, DSGC, DSGD

Item	OEM Comparison No.	Art. No.
Camshaft Adjuster Locking Tool	T10599	6614-05

Timing Tool Set, Audi / VW

- for 1.0, 1.2 and 1.4L TFSI and TSI petrol engines with 3 and 4 cylinders
- also suitable for 1.6L petrol engines
- in VW Golf VI Cabrio, Golf VII, Golf Sportsvan, Jetta, Passat, Polo, Scirocco, Tiguan and Up
- in Audi A1, A3 and Q3
- in Seat Ateca, Ibiza V, Leon, Leon ST and Leon SC
- in Skoda Citigo, Fabia, Mii, Octavia, Rapid and Superb III
- for locking the camshafts and crankshaft
- for positioning the timing belt tensioner
- for timing belt replacement or engine repair

for engine codes:
CHPA, CHPB, CHYA, CHYB, CJZA, CJZB, CJZC, CJZD, CMBA, CPGA, CPVA, CPVB, CPWA, CRJA, CUKB, CUKC, CWVA, CWVB, CXSA, CXSB, CYVA, CYVB, CZCA, CZDA

Content	OEM Comparison No.	Art. No.
Camshaft Locking Assembly Tool	T10487	*6614-01*
Camshaft Sprocket Locking Tool	T10476A	*6614-02*
Camshaft Locking Tool	T10494	*6614-03*
Camshaft Locking Tool	T10477	*6614-04*
Crankshaft Locking Bolt	T10340	*3518-03*
Tensioner Locking Pin	T10060A	*3520-24*
Timing Belt Tensioner Wrench	T10499A	6605

Item	Art. No.
Timing Tool Set, Audi / VW	36614

accessory

Item	Art. No.
Camshaft Adjuster Locking Tool, Audi / VW 1.0L 3-cyl. MPi (EA211 Evo)	6614-05

for engine codes:
CHPA, CHPB, CHYA, CHYB, CJZA, CJZB, CJZC, CJZD, CMBA, CPGA, CPTA, CPVA, CPVB, CPWA, CRJA, CUKB, CUKC, CWVA, CWVB, CXSA, CXSB, CYVA, CYVB, CZCA, CZDA, CZEA

Timing Belt Tensioner Wrench, Audi / VW, 30 mm

- for operating the tensioner
- specially designed jaw and offset shape for better access
- for 1.0, 1.2 and 1.4L TFSI and TSI petrol engines with 3 and 4 cylinders
- in VW Golf VI Cabrio, Golf VII, Golf Sportsvan, Jetta, Passat, Polo and Up
- in Audi A1, A3 and Q3
- in Seat Ateca, Ibiza V, Leon, Leon ST and Leon SC
- in Skoda Citigo, Fabia, Octavia and Superb III
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Timing Belt Tensioner Wrench	T10499A	6605

Intake Manifold Pipe Releaser, 2 pcs., Audi / VW

- for releasing the intake manifold pipe clips on the turbocharger
- for 1.0, 1.2 and 1.4L direct injection turbo petrol engines
- in VW Golf from 2013 onwards
- in Audi A3 and Q3 from 2013 onwards
- in Seat Ibiza from 2008 onwards, Ateca and Leon from 2013 onwards
- in Skoda Oktavia from 2013 onwards

Item	OEM Comparison No.	Art. No.
Intake Manifold Pipe Releaser	T10527	6670

Camshaft Locking Tool, Audi / VW 1.4L TFSI

- for 1.4L TFSI petrol engines with 4 cylinders and cylinder on demand technology
- in VW Golf VII, Passat, Polo and Tiguan
- in Audi A1, A3 and Q3
- in Seat Ateca, Ibiza V, Leon, Leon ST and Leon SC
- in Skoda Superb III
- for locking the camshaft
- for timing belt replacement or engine repair

for engine codes:
CPTA, CZEA

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T10504	*6615-01*
Camshaft Locking Pin, short	T105041	*6615-02*
Camshaft Locking Pin, long	T105042	*6615-03*

Item	Art. No.
Camshaft Locking Tool, Audi / VW 1.4 TFSI	6615

Timing Tool Set, Audi / VW

- for 1.0L TSI petrol engines with 3 cylinders
- in VW Polo, Up and Load UP
- in Seat Mii and Ibiza V
- in Skoda Citigo and Fabia
- for locking the camshafts and crankshaft
- for positioning the timing belt tensioner
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Sprocket Locking Tool	T10476A	*6614-02*
Camshaft Locking Tool	T10477	*6614-04*
Crankshaft Locking Bolt	T10340	*3518-03*

Item	Art. No.
Timing Tool Set, Audi / VW	36613

for engine codes:
CHYA, CHYB, CPGA

recommended accessory

Item	Art. No.
Timing Belt Tensioner Wrench, Audi / VW, 30 mm	6605

Timing Tool Set, Audi / VW

- for 1.8 and 2.0L TFSI and TSI engines (Gen. III) with twin camshafts and turbocharger
- in Audi A1, A3, A4, A5, A6, A7, A8, Q2, Q3, Q5, Q7, S1, S3 and TT
- in VW Amarok, Arteon, Beetle, CC, Eos, Golf V/VI/VII, Jetta V/VI, Passat, Polo, Scirocco, Sharan, Tiguan, Touareg, Touran, Transporter T5/T6 and T-Roc
- in Seat Alhambra, Altea, Altea XL, Ateca, Exeo, Ibiza, Leon and Toledo
- in Skoda Kodiaq, Octavia II/III, Superb II/III and Yeti
- in KTM X-Bow Cabriolet 2.0
- for locking the camshafts and the crankshaft
- to block the clamping devices
- for assembly work on the multi-port valve on camshaft adjustment
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Colour	Art. No.
Camshaft Locking Tool	T40271 / T20208		*6620-04*
Chain Tensioner Locking Tool	T40267		*6620-05*
Oil Pump Tensioner Locking Tool	T40265		*6620-07*
Camshaft Turning Tool	T40266		*6620-08*
Crankshaft Thrust Piece	T10368		*6620-09*
Tensioner Locking Pin	T40011		*3520-11*
Central Valve Socket	T10352	silver	*6603-0*
Central Valve Socket	T10352/1	gold	*6603-1*
Central Valve Socket	T10352/2	black	*6603-2*

Item	Art. No.
Timing Tool Set, Audi / VW	36620

accessory

Item	Art. No.
Tension Lever for Timing Chains, Audi / VW	6606
Crankshaft Pulley Holding Wrench, Audi / VW 1.8/2.0 TFSI	4283
Camshaft counterholding spanner set, Audi / VW	36685
Assembly Tool, for crankshaft pulley with vibration damper, Audi / VW	36621

for engine codes:
BYT, BZB, CABA, CABB, CABD, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CGYA, CHHA, CHHB, CHHC, CHJA, CJEB, CJED, CJEE, CJKA, CJKB, CJSA, CJSB, CJSC, CJXA, CJXB, CJXC, CJXD, CJXE, CJXF, CJXG, CJXH, CNCB, CNCD, CNCE, CPLA, CPPA, CPSA, CULA, CULB, CULC, CVKB, CVLA, CWZA, CXDA, CYGA, CYNB, CYPA, CYPB, CYRB, CYRC, CZPA, CZPB, CZPC, DAJA, DAJB, DAXB, DEDA, DEMA, DGVA, DHGA, DJHA, DJHB, DJHC, DKTA, DKTB, DKYA, DKZA, DKZB, DKZC, DLBA, DLVA, DLVB, DNUC, DNUE

Assembly Tool, for crankshaft pulley with vibration damper, Audi / VW

- for 1.8 and 2.0L TFSI and TSI engines
- in Audi A1 (8X, GB), A3 (8P, 8V), A4 (B8, B9), A5 (8T, 8F, F5), A6 (C7), A7, Q2 (GA), Q3 (8U, F3), Q5 (8R) and TT (8J, FV)
- in Seat Alhambra, Altea, Exeo, Leon (1P, 5F), Tarraco and Toledo III
- in Skoda Kodiaq, Octavia II + III, Superb II + III and Yeti
- in VW Amarock, Arteon, Beetle (5C), CC, Golf V + VI + VII, Jetta III + IV, Passat (B6, B7, B8), Polo V + VI, Sciroco III, Sharan II, Tiguan I + II, T-Roc, T5 and T6
- to secure the crankshaft gear
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Holding Plate, with fastening srews	T105311	*6621-01*
Clamping Bolt	T105312	*6621-02*
Toothed Coupling Gear	T105313	*6621-03*
Clamping Nut	T105314	*6621-04*

Item	Art. No.
Assembly Tool, for crankshaft pulley with vibration damper, Audi / VW	36621

for engine codes:
BYT, BZB, CABA, CABB, CABD, CAEB, CAED, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CESA, CETA, CFKA, CFPA, CGYA, CHHA, CHHB, CHHC, CHJA, CJEB, CJED, CJEE, CJKA, CJKB, CJSA, CJSB, CJSC, CJXA, CJXB, CJXC, CJXD, CJXE, CJXF, CJXG, CJXH, CNCB, CNCD, CNCE, CNSB, CNTA, CNTC, CPLA, CPMA, CPMB, CPPA, CPSA, CULA, CULB, CULC, CVKB, CWZA, CXDA, CYGA, CYMC, CYNB, CYPA, CYPB, CYRB, CYRC, CZPA, CZPB, DAJA, DAJB, DAXB, DAXC, DAYB, DBPA, DDWA, DEDA, DHGA, DJHA, DJHB, DJHC, DLBA

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Tension Lever for Timing Chains, Audi / VW

- for 1.8 and 2.0 L TFSI / TSI engines
- in Audi A1 (8X, GB), A3 (8P, 8V), A4 (B8, B9), A5 (8T, 8F, F5), A6 (C7), A7, Q2 (GA), Q3 (8U, F3), Q5 (8R) and TT (8J, FV)
- in Seat Alhambra, Altea, Exeo, Leon (1P, 5F), Tarraco and Toledo III
- in Skoda Kodiaq, Octavia II + III, Superb II + III and Yeti
- in VW Amarock, Arteon, Beetle (5C), CC, Golf V + VI + VII, Jetta III + IV, Passat (B6, B7, B8), Polo V + VI, Sciroco III, Sharan II, Tiguan I + II, T-Roc, T5 and T6
- to push back the chain tensioner without damaging
- no need to remove the front motor cover
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Tension Lever	T40243	6606

for engine codes:
BYT, BZB, CABA, CABB, CABD, CAEB, CAED, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CESA, CETA, CFKA, CFPA, CGYA, CHHA, CHHB, CHHC, CHJA, CJEB, CJED, CJEE, CJKA, CJKB, CJSA, CJSB, CJSC, CJXA, CJXB, CJXC, CJXD, CJXE, CJXF, CJXG, CJXH, CNCB, CNCD, CNCE, CNSB, CNTA, CNTC, CPLA, CPMA, CPMB, CPPA, CPSA, CULA, CULB, CULC, CVKB, CWZA, CXDA, CYGA, CYMC, CYNB, CYPA, CYPB, CYRB, CYRC, CZPA, CZPB, DAJA, DAJB, DAXB, DAXC, DAYB, DBPA, DDWA, DEDA, DHGA, DJHA, DJHB, DJHC, DLBA

Central Valve Sockets, Audi / VW, 3 pcs.

- for Audi / VW 1.8 and 2.0L FSI / TSI / TFSI petrol engines with timing chain
- for assembly / disassembly of camshaft valve on phaser
- for timing chain replacement or engine repair
- in VW Beetle (B4/5C7), Golf, Jetta III+IV, Passat (3C5/CC), Scirocco, Sharan, Tiguan
- in Audi A3 (8P7), A4 (8K2/8K5), A5 (8T3), Q5, TT (8J3)
- in Skoda Octavia (1Z3/1Z5), Superb II, Yeti
- in Seat Alhambra (710)

Content	OEM Comparison No.	Colour	Art. No.
Central Valve Socket	T10352	silver	*6603-0*
Central Valve Socket	T10352/1	gold	*6603-1*
Central Valve Socket	T10352/2	black	*6603-2*

Item	Art. No.
Central Valve Sockets, Audi / VW, 3 pcs.	6603

for engine codes:
CABA, CABB, CABD, CADA, CAEA, CAEB, CAWB, CCZA, CCZB, CCZC, CCZD, CDAA, CDAB, CDHA, CCUA, CDLB, CDLH, CDNB, CDNC, CDZA, CESA, CETA, CFKA, CJEB, CJSA, CJSB, CNCD, CPMA, CPMB, CPSA

Timing Tool Set, Audi / VW

- for 2.4, 2.5, 2.8, 3.0, 3.2, 4.2 and 5.2 L FSI / TSI / TFSI / RS engines from Audi
- also suitable for Lamborghini, Porsche and Volkswagen
- in Audi A3 (8P), A4 (B7/B8), A5 (8F/8T), A6 (C6/C7), A7 (C7), A8 (D3/D4), Q5 (8R), Q7 (4L/4M), R8 (42) and TT (8J)
- in VW Touareg I and II (7L/7P)
- in Lamborghini Gallardo and Gallardo Spyder
- in Porsche Cayenne and Panamera
- for locking the camshafts, crankshaft and balancer shaft
- for operating the camshaft adjustment
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T40070	6632-01
Camshaft Locking Tool	T40133 / T401331 / T401332	6633
Chain Tensioner Locking Pin	T40071	*6632-02*
Locking Pin, 8 mm		*3521-27*
Crankshaft Locking Pin	3242 / T40237	6634
Crankshaft Rotation Adapter	T40049	*6627-03*
Crankshaft Locking Pin	T40069	*6632-03*
Specialist Crankshaft Socket	T10035	*6632-05*
Crankshaft Rotation Adapter	T40058	*6632-04*

Item	Art. No.
Timing Tool Set, Audi / VW	36632SP

for engine codes:
AUK, BAR, BDW, BDX, BKH, BNS, BPK, BSM, BUJ, BVJ, BXA, BYH, CAJA, CAKA, CALA, CALB, CAUA, CCAA, CCDA, CCEA, CDRA, CEPA, CEPB, CGEA, CGFA, CGNA, CGWA, CGWB, CGWC, CGWD, CGXB, CGXC, CHMA, CHMB, CHVA, CJBA, CJTA, CJTB, CJTC, CJWC, CLXB, CMDA, CMPA, CMUA, CNAA, CNDA, CNYA, CPAA, CREA, CREC, CRED, CTTA, CTUA, CTUD, CTVA, CTWA, CTWB, CTXA, M06EC, MCGE, MCGEA, MCGFA

Timing Tool Set, Audi / VW

- for 2.4, 2.5, 3.2, 4.2 and 5.2 L FSI / RS engines from Audi
- also suitable for Lamborghini and Volkswagen
- im Audi A3 (8P), A4 (B7), A6 (C6), A8 (D3/D4), Q7 (4L), R8 (42) and TT (8J)
- in VW Touareg I and II (7L/7P)
- in Lamborghini Gallardo and Gallardo Spyder
- for locking the camshafts, crankshaft and balancer shaft
- for operating the camshaft adjustment
- for timing chain replacement or engine repair

Content	OEM Comparison No.	pcs	Art. No.
Camshaft Locking Tool	T40070	2	6632-01
Chain Tensioner Locking Pin	T40071	5	*6632-02*
Locking Pin, 8 mm			*3521-27*
Crankshaft Locking Pin	3242 / T40237		6634
Crankshaft Rotation Adapter	T40049		*6627-03*
Crankshaft Locking Pin	T40069		*6632-03*
Specialist Crankshaft Socket	T10035		*6632-05*
Crankshaft Rotation Adapter	T40058		*6632-04*

Item	Art. No.
Timing Tool Set, Audi / VW	36632A

for engine codes:
AUK, BAR, BDW, BKH, BNS, BPK, BSM, BUJ, BVJ, BXA, BYH, CAUA, CDRA, CEPA, CEPB, CGNA, CMPA, CNDA

Timing Tool Set, Audi / VW

- for 2.8, 3.0 and 3.2 L FSI / TSI / TFSI V6-engines from Audi
- also suitable for Porsche and Volkswagen
- im Audi A4 (B8), A5 (8F/8T), A6 (C6/C7), A7 (C7), A8 (D4), Q5 (8R) and Q7 (4L/4M)
- in VW Touareg II (7P)
- in Porsche Cayenne and Panamera
- for locking the camshafts, crankshaft and balancer shaft
- for operating the camshaft adjustment
- for timing chain replacement or engine repair

Content	OEM Comparison No.	pcs	Art. No.
Camshaft Locking Tool	T40133 / T401331 / T401332	2	6633
Chain Tensioner Locking Pin	T40071	5	*6632-02*
Locking Pin, 8 mm			*3521-27*
Crankshaft Locking Pin	3242 / T40237		6634
Crankshaft Rotation Adapter	T40049		*6627-03*
Crankshaft Locking Pin	T40069		*6632-03*
Specialist Crankshaft Socket	T10035		*6632-05*
Crankshaft Rotation Adapter	T40058		*6632-04*

Item	Art. No.
Timing Tool Set, Audi / VW	36632B

for engine codes:
BDX, CAJA, CAKA, CALA, CALB, CCAA, CCDA, CCEA, CGEA, CGFA, CGWA, CGWB, CGWC, CGWD, CGXB, CGXC, CHMA, CHMB, CHVA, CJBA, CJTA, CJTB, CJTC, CJWC, CLXB, CMDA, CMUA, CNAA, CNYA, CPAA, CREA, CREC, CRED, CTTA, CTUA, CTUD, CTVA, CTWA, CTWB, CTXA, M06EC, MCGE, MCGEA, MCGFA

Camshaft Locking Tool, 2 pcs., Audi / VW

- for 2.4, 2.5, 3.2, 4.2 and 5.2 L FSI / RS engines from Audi
- also for identically constructed engines from Lamborghini
- in Audi A3 (8P), A4 (B7), A6 (C6), A8 (D3/D4), Q7 (4L), R8 (42) and TT (8J)
- in VW Touareg I and II (7L/7P)
- in Lamborghini Gallardo and Gallardo Spyder
- for locking the camshafts
- for timing chain replacement or engine repair

Item	OEM Comparison No.	pcs	Art. No.
Camshaft Locking Tool, 2 pcs., Audi / VW	T40070	2	6632-01

for engine codes:
AUK, BAR, BDW, BKH, BNS, BPK, BSM, BUJ, BVJ, BXA, BYH, CAUA, CDRA, CEPA, CEPB, CGNA, CMPA, CNDA

Camshaft Locking Tool, 2 pcs., Audi / VW

- for 2.8, 3.0 and 3.2 L FSI / TSI / TFSI V6 engines from Audi
- also for identically constructed engines from Porsche
- in Audi A4 (B8), A5 (8F/8T), A6 (C6/C7), A7 (C7), A8 (D4), Q5 (8R) and Q7 (4L/4M)
- in VW Touareg II (7P)
- in Porsche Cayenne and Panamera
- for locking the camshafts
- for timing chain replacement or engine repair

Item	OEM Comparison No.	pcs	Art. No.
Camshaft Locking Tool, 2 pcs.	T40133 / T401331 / T401332	2	6633

for engine codes:
BDX, CAJA, CAKA, CALA, CALB, CCAA, CCDA, CCEA, CGEA, CGFA, CGWA, CGWB, CGWC, CGWD, CGXB, CGXC, CHMA, CHMB, CHVA, CJBA, CJTA, CJTB, CJTC, CJWC, CLXB, CMDA, CMUA, CNAA, CNYA, CPAA, CREA, CREC, CRED, CTTA, CTUA, CTUD, CTVA, CTWA, CTWB, CTXA, M06EC, MCGE, MCGEA, MCGFA

Timing Tool Set, Audi / VW / Porsche

- for 2.8, 3.2, 3.6, 4.0, 6.0 and 6.3 L petrol engines with 6 and 8 cylinders
- in Audi A3, A8, Q7, S8 and TT
- in VW Eos, Golf IV/V, Passat, Passat CC, Phaeton, Sharan, Touareg, and T4
- in Porsche Cayenne
- in Skoda Superb II
- for locking the camshafts, crankshaft and injection pump
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T10068A	*36634-01*
Crankshaft Counter Holder	T10069	*36634-02*
Injection Pump Locking Tool	T10332	*36634-03*
Injection Pump Locking Tool	T10363	*36634-04*
Crankshaft Locking Pin	3242 / T40237	6634

Item	Art. No.
Timing Tool Set, Audi / VW / Porsche	36634

for engine codes:
AMV, AXZ, AYL, BAN, BAP, BDB, BDE, BDN, BDP, BHK, BHL, BJN, BMJ, BRN, BRP, BTT, BUB, BWS, CBRA, CDVA, CEJA, CGRA, CHNA, CMTA, CTNA, M5501, M5502

Timing Tool Set, Audi / VW

- for 1.2, 1.4 and 1.6 L FSI / TSI / TFSI petrol engines
- in Audi A1, A3/Cabrio and S1
- in Seat Alhambra, Altea/XL, Cordoba, Ibiza IV/V, Leon and Toledo III/IV
- in Skoda Fabia II, Octavia II, Praktik, Rapid/Spaceback, Roomster, Superb II and Yeti
- in VW Beetle, Caddy/Maxi, CC, Eos, Golf Plus I/II, Golf V/VI/Cabrio VI, Jetta III/IV, Passat, Polo IV/V, Scirocco II, Sharan, Tiguan and Touran
- with storage space for dial gauge, e.g. No. 1381
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T10171	*3518-02*
Tensioner Locking Pin	T40011	*3520-11*
Crankshaft Locking Bolt	T10340	*3518-03*
Dial Gauge Holder, 8.0 mm intake	T10170	*3518-04*
Camshaft Locking Tool	T10414	*6668-02*
Compressor Assembly Guide Bolt	T10341	*6668-03*

Item	Art. No.
Timing Tool Set, Audi / VW	36618SP

accessory

Item	Art. No.
Dial Gauge, DIN 878, ø 42 mm, 8 mm shaft, H6	1381

for engine codes:
AXU, BAG, BKG, BLF, BLG, BLN, BLP, BMY, BTS, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CBZA, CBZB, CBZC, CDGA, CKMA, CMSA, CMSB, CNKA, CTHA, CTHB, CTHC, CTHD, CTHE, CTHF, CTHG, CTJB, CTJC

Timing Tool Set, Audi / VW

- for 1.4 and 1.6 L FSI / TSI / TFSI petrol engines
- in Audi A1 and A3
- in Seat Altea, Ibiza, Leon and Toledo
- in Skoda Fabia II, Roomster, Octavia II and Superb
- in VW Golf V/VI, Polo, Passat, Touran, Jetta III/IV, Eos, Scirocco III and Tiguan
- with storage space for dial gauge, e.g. No. 1381
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T10171	*3518-02*
Tensioner Locking Pin	T40011	*3520-11*
Crankshaft Locking Bolt	T10340	*3518-03*
Dial Gauge Holder, 8.0 mm intake	T10170	*3518-04*

Item	Art. No.
Timing Tool Set, Audi / VW	36618

accessory

Item	Art. No.
Dial Gauge, DIN 878, ø 42 mm, 8 mm shaft, H6	1381

for engine codes:
AXU, BAG, BKG, BLF, BLG, BLN, BLP, BMY, BTS, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CDGA, CKMA, CMSA, CMSB, CNKA, CTHA, CTHB, CTHC, CTHD, CTHE, CTHF, CTHG, CTJB, CTJC

Timing Tool Set, Audi / VW

- for 3- and 4-cylinder petrol engines with single or twin camshafts
- in Audi A1, A3/Cabrio and S1
- in Seat Altea, Cordoba, Ibiza, Leon and Toledo IV
- in Skoda Fabia I/II, Octavia II, Praktik, Rapid/Spaceback, Roomster and Yeti
- in VW Beetle II, Caddy III, Fox, Golf VI, Jetta IV, Polo and Touran
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Bolt	T10121	*3520-20*
Camshaft Locking Tool	T10120	*3520-27*
Camshaft Locking Tool	T10123	*3520-19*
Compressor Assembly Guide Bolt	T10341	*6668-03*
Camshaft Locking Tool	T10414	*6668-02*
Crankshaft Locking Bolt	T10340	*3518-03*

Item	Art. No.
Timing Tool Set, Audi / VW	36619SP

for engine codes:
AWY, AZQ, BBM, BMD, BME, BXV, BZG, CBZA, CBZB, CBZC, CEVA, CGPA, CGPB, CGPC, CHFA, CHFB

Timing Tool Set, Audi / VW

- for 3-cylinder petrol engines with single or twin camshafts
- in Seat Cordoba, Ibiza and Toledo
- in Skoda Fabia I/II, Octavia II, Praktik, Rapid/Spaceback, Roomster and Yeti
- in VW Fox and Polo
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Bolt	T10121	*3520-20*
Camshaft Locking Tool	T10120	*3520-27*
Camshaft Locking Tool	T10123	*3520-19*

Item	Art. No.
Timing Tool Set, Audi / VW	36619

for engine codes:
AWY, AZQ, BBM, BMD, BME, BXV, BZG, CEVA, CGPA, CGPB, CGPC, CHFA, CHFB

for engine codes:
CBZA, CBZB, CBZC

Timing Tool Set, Audi / VW

- for 1.2 L TSI and TFSI engines
- in Audi A1, A3, A3 Sportback and A3 Cabriolet
- in VW New Beetle, Caddy, Golf, Golf Plus, Golf Cabriolet, Golf Variant, Jetta, Polo and Touran
- in Skoda Fabia, Fabia Combi, Rapid, Oktavia, Oktavia Combi, Roomster and Yeti
- in Seat Altea, Altea XL, Ibiza, Ibiza Sportcoupe, Leon and Toledo

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T10414	*6668-02*
Compressor Assembly Guide Bolt	T10341	*6668-03*
Crankshaft Locking Bolt	T10340	*3518-03*

Item	Art. No.
Timing Tool Set, Audi / VW 1.2 TFSI	6668

for engine codes:
AWA, AXW, AXX, BGB, BHD, BHZ, BLR, BLX, BLY, BMB, BPG, BPJ, BPY, BUL, BVX, BVY, BVZ, BWA, BWA1, BWE, BWJ, BWT, BYD, BYK, BZC, CDLA, CDLB, CDLC, CDLD, CDLF, CDLG, CDLJ, CDLH, CDLK, CDMA

Timing Tool Set, Audi / VW

- for 2.0L FSI and TFSI engines
- in Audi A3, A4, A6 and TT
- in Seat Altea, Exeo, Leon and Toledo
- in Skoda Octavia II
- in VW Golf V + VI, Eos, Jetta III, Polo, Passat, Scirocco II and Touran
- for locking the camshaft and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T10252	*3516-01*
Tensioner Pulley Wrench, offset	T10020	*3516-02*
Chain Tensioner Holder	3366	*3520-26*
Socket Bit, ribe-profile M10	T40080 / T20079	*3516-05*
Belt Tensioner Adjustment Screw	T10092	*3516-04*
Tensioner Locking Pin	T10060A	*3520-24*
Tensioner Locking Pin	T40011	*3520-11*
Locking Pin	T10115	*3516-03*

Item	Art. No.
Timing Tool Set, Audi / VW	36616

for engine codes:
ASN, AVK, BBJ

Timing Tool Set, Audi / VW

- for Audi 3.0L V6 petrol engines
- in Audi A4 / A4 Cabrio, A6 and A8
- for locking the camshafts and crankshaft
- for positioning the timing belt tensioner
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Pin	T40026	*6626-01*
Tensioner Locking Pin	T40011	*3520-11*
Cam Phaser Socket	T40028	*6626-03*
Camshaft Locking Tool	T40030	*6626-04*
Tensioner Wrench	3387	*6626-05*

Item	Art. No.
Timing Tool Set, Audi 3.0 V6 petrol	36626

for engine codes:
BNK, BFM, BGK, BAS, BHF, BGH

Hall Sender Locking Tool, 2 pcs., Audi / VW

- for 4.2 L V8 petrol engines
- for locking the hall sender during assembly
- in Audi A6, A8, Quatro and S4
- in VW Phaeton
- for engine timing and engine repair

Item	OEM Comparison No.	Art. No.
Hall Sender Locking Tool	T40047	6642

Camshaft Locking Tool, Audi / VW

- for 3.7 and 4.2 L V8 engines
- in Audi A6, S6, A8, S8 and VW Phaeton and Touareg
- for locking the camshafts
- for timing belt replacement and engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T40005	6637

for engine codes:
ABZ, AKC, ANK, AQF, AQG, AQJ, ARS, ARU, ASG, AUW, AVN, AWN, AXQ, BFL, BGH, BGJ, BHX

Camshaft Locking Tool, Audi / VW

- for Audi 2.6 and 2.8 L V6 engines
- in Audi A4, A6, A8, 80, 100, Coupe and Cabriolet
- with fixing hook
- for locking the camshafts
- for timing belt replacement and engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	3243	6636

for engine codes:
AAH, ABC, ACZ, AEJ, AFC, AFM

Camshaft Locking Tool, Audi / VW

- for V6 engines with 5-valve technology
- in Audi A4, A6, A8, S4 and RS4
- in VW Passat and Skoda Superb
- for locking the camshafts
- for timing belt replacement and engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	3391 / T30065	6635

for engine codes:
AGA, AJG, ALF, ALW, AML, AMM, APC, APS, APZ, ARJ, ARN, ASM, BDV, AGB, AJK, ASJ, ARE, AZA, AZB, AZR, BES, ACK, AGE, ALG, AMX, APR, AQD, ATX, BBG

Camshaft Guide, Audi / VW

- for 2.3, 2.8 and 2.9 L VR-engines
- suitable for e.g.: Golf, Vento, Bora, Corrado, Passat, Sharan, Transporter

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	3268	4288

for engine codes:
AAA, ABV, AES, AGZ, AMY, AZX

Camshaft Locking Tool, Audi / VW

- for 1.4 and 1.6 L petrol engines
- in Audi A3
- in VW Lupo, Polo, Golf / Plus, Bora, Beetle and Caddy
- in Skoda Fabia I+II, Octavia I+II and Roomster
- in Seat Arosa, Ibiza, Cordoba, Leon, Toledo and Inca
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T10016 / T10074	4299

for engine codes:
AFK, AHW, AJV, AKQ, APE, AQQ, ARC, ARR, ATN, AUA, AUB, AUS, AVY, AXP, AZD, BAD, BBY, BBZ, BCA, BCB, BKY, BUD, BXW

Camshaft Locking Tool, VAG

- for 1.4 and 1.6 L petrol engines
- for locking the inlet camshaft
- absolutely necessary when dismantling the camshaft and disassembly/assembly of the adjuster
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T10110	6661

for engine codes:
AVY, ARR

Timing Tool Set, Audi / VW

- for 1.2, 1.4, 1.6 and 2.0 L TDI Common-Rail engines
- also for the new engines built from 2013 onwards
- in VW Golf V/VI/VII/Plus, Polo V, Jetta V/VI, Caddy II, Beetle II, Passat B6/B7/B8/CC, Scirocco III, Eos, Touran II, Tiguan, Sharan II, T5, T6 and Amarock
- in Audi A1, A3 (8P/8V), A4 (B8/8K), A5 (8T/F), A6 (C6/C7/4G), TT (8J), Q3 and Q5
- in Skoda Fabia II/III, Roomster, Praktik, Octavia II/III, Superb II/III, Yeti I/II and Kodiaq
- in Seat Ibiza (6J), Leon III, Exeo, Altea and Alhambra II
- for locking the camshafts, balancer and crankshaft
- for removal and assembly of the camshaft sprockets
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Sprocket Puller	T10052	*6610-06*
Tensioner Pulley Locking Tool	T10265	*3520-25*
Specialist Offset Screwdriver, 6 mm	T10264	*3520-22*
Crankshaft Timing Belt Sprocket Locking Tool, oval	T10100	*3520-06*
Crankshaft Timing Belt Sprocket Locking Tool	T10050 / 23059 / 310085 / MB995206 / VM9883	*3520-10*
Belt Tensioner Locking Tool	T40098	*6610-04*
Camshaft Sprocket Counter Holder	T10051	*6610-01*
Balance Shaft Locking Tool	T10255	6612
Locking Pins	3359	*6609-03*
Crankshaft Locking Tool with Pin	T10490, 3031748	*6609-01*
Locking Pins	T10492	*6609-02*

Item	Art. No.
Timing Tool Set, Audi / VW	36610SP

for engine codes:
AJM, AMF, ANU, ARL, ASZ, ATD, ATL, AUY, AVB, AVF, AWX, AXB, AXC, AXR, AZV, BAY, BGW, BHC, BHW, BJB, BKC, BKD, BKP, BLB, BLS, BLT, BMA, BMM, BMN, BMP, BMR, BMS, BMT, BNA, BNM, BNV, BPW, BPX, BPZ, BRB, BRC, BRD, BRE, BRF, BRM, BRR, BRS, BRT, BSS, BST, BSV, BSW, BTB, BUK, BUY, BUZ, BVA, BVE, BVF, BVG, BVH, BVK, BWB, BWV, BXE, BXF, BXJ, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CCHB, CDBA, CDCA, CEGA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFJB, CFWA, CGLA, CGLB, CGLC, CGLD, CGLE, CJAA, CJCA, CJCB, CJCC, CJCD, CKFB, CKFC, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLHA, CLHB, CLHC, CLJA, CLLA, CLLB, CLNA, CMEA, CMFA, CMFB, CMGA, CMGB, CNEA, CNFA, CNFB, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKA, CRKB, CRLB, CRLC, CRLD, CRMB, CRUA, CRVA, CRVC, CSHA, CSLA, CSLB, CSNA, CSUA, CSUB, CSUD, CSUE, CUAA, CUNA, CUPA, CUSA, CUSB, CUTA, CUUA, CUUB, CUUC, CUUD, CUUE, CUUF, CUVA, CUVB, CUVC, CUVD, CUVE, CUWA, CXEB, CXEC, CXFA, CXGA, CXGB, CXHA, CXHB, CXMA, CXXA, CXXB, CYKA, CYKB, CYKC, CZJA, DASA, DASB, DASC, DAUA, DAUB, DAVA, DAWA, DAWB, DBGA, DBGB, DBGC, DBKA, DCXA, DCYA, DCYB, DCZA, DDAA, DDCA, DDCB, DDDA, DDYA, DDYB, DEJA, DEJB, DESA, DETA, DETB, DEUA, DEUB, DEUC, DEZB, DEZD, DEZE, DEZF, DFBA, DFCA, DFEA, DFEB, DFFA, DFGA, DFGB, DFGC, DFHA, DFLA, DFLD, DFMA, DFSA, DFSB, DFSC, DFSD, DFSE, DFSF, DFTA, DFTB, DFTC, DFUA, DGCA, DGDA, DGDB, DGTA, DGTC, DGTD, DGTE, DJGA, DLTA, DLTC, DLUB, DMZB, DMZD, DMZE, DNAD, DNAE, DREB, DREC, DTRD, DTTA, DTTC

Accessory Timing Tool Set, Audi / VW new TDI CR-engines

- accessory set for item No. 36610
- for 1.4, 1.6 and 2.0 L TDI Common-Rail engines built from 2013 onwards
- in VW Golf VI /Plus, Polo V, Jetta VI, Caddy II, Beetle II, Passat (362/365), Scirocco III, Eos, Touran II, Tiguan, Sharan II, T5 and Amarock
- in Audi A1, A3 (8P), A4 (B8), A5, A6 (C7), TT (8J), Q3 and Q5
- in Skoda Fabia III, Roomster, Praktik, Octavia III, Superb II/III, Yeti II and Kodiaq
- in Seat Ibiza (6J), Leon III, Exeo, Altea and Alhambra II
- for locking the camshafts and crankshaft
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Tool with Pin	T10490, 3031748	*6609-01*
Locking Pins	T10492	*6609-02*

Item	Art. No.
Timing Tool Set, Audi / VW	6608

for engine codes:
CKFB, CKFC, CLHA, CLHB, CNHA, CNHC, CRBC, CRBD, CRFA, CRKA, CRKB, CRLB, CRLC, CRMB, CRUA, CRVA, CRVC, CSUA, CSUB, CSUD, CSUE, CUAA, CUNA, CUPA, CUSA, CUSB, CUTA, CUUA, CUUB, CUVA, CUVC, CUVD, CUWA, CXMA, CXXA, CXXB, CYKA, CZJA, DBKA, DCXA, DDAA, DEUA, DEUB, DFLA, DFLD, DFMA, DFSA, DFSB, DSRA, DSRB

Timing Tool Set, Audi / VW

- for 1.2, 1.6 and 2.0 L TDI Common-Rail engines
- in VW Golf V/VI/Plus, Polo V, Jetta V/VI, Caddy II, Beetle II, Passat B6/B7/CC, Scirocco III, Eos, Touran II, Tiguan, Sharan II, T5 and Amarock
- in Audi A1, A3 (8P), A4 (B8), A5, A6 (C6/C7), TT (8J), Q3 and Q5
- in Skoda Fabia II, Roomster, Praktik, Octavia II, Superb II and Yeti
- in Seat Ibiza (6J), Leon III, Exeo, Altea and Alhambra II
- for locking the camshafts, balancer and crankshaft
- for removal and assembly of the camshaft sprockets
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Sprocket Puller	T10052	*6610-06*
Tensioner Pulley Locking Tool	T10265	*3520-25*
Specialist Offset Screwdriver, 6 mm	T10264	*3520-22*
Crankshaft Timing Belt Sprocket Locking Tool, oval	T10100	*3520-06*
Crankshaft Timing Belt Sprocket Locking Tool	T10050 / 23059 / 310085 / MB995206 / VM9883	*3520-10*
Belt Tensioner Locking Tool	T40098	*6610-04*
Camshaft Sprocket Counter Holder	T10051	*6610-01*
Balance Shaft Locking Tool	T10255	6612
Locking Pins	3359	*6609-03*

Item	Art. No.
Timing Tool Set, Audi / VW	36610

for engine codes:
AJM, AMF, ANU, ARL, ASZ, ATD, ATL, AUY, AVB, AVF, AWX, AXB, AXC, AXR, AZV, BAY, BGW, BHC, BHW, BJB, BKC, BKD, BKP, BLB, BLS, BLT, BMA, BMM, BMN, BMP, BMR, BMS, BMT, BNA, BNM, BNV, BPW, BPX, BPZ, BRB, BRC, BRD, BRE, BRF, BRM, BRR, BRS, BRT, BSS, BST, BSV, BSW, BTB, BUK, BUY, BUZ, BVA, BVE, BVF, BVG, BVH, BVK, BWB, BWV, BXE, BXF, BXJ, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CCHB, CDBA, CDCA, CEGA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFJB, CFWA, CGLA, CGLB, CGLC, CGLD, CGLE, CJAA, CJCA, CJCB, CJCC, CJCD, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA, CLLB, CLNA, CMEA, CMFA, CMFB, CMGA, CMGB, CNEA, CNFA, CNFB, CSHA, CSLA, CSLB, CSNA

Timing Tool Set, Audi / VW

- for 1.4, 1.6 and 2.0L TDI Common-Rail engines
- in Audi A1, A3, A4, A5, A6, Q5 and TT
- in VW Golf VII, Passat, Polo and Touran
- in Seat Leon, Ibiza and Toledo
- in Skoda Fabia, Oktavia, Rapid and Superb
- for locking the camshafts, the crankshaft and the tensioning devices
- for disconnecting the high pressure pump
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Tool with Pin	T10490, 3031748	*6609-01*
Locking Pins	T10492	*6609-02*
Locking Pins	3359	*6609-03*
Camshaft Sprocket Counter Holder	T10051	*6610-01*
Specialist Offset Screwdriver, 6 mm	T10264	*3520-22*
Tensioner Locking Pin	T10060A	*3520-24*
Tensioner Pulley Locking Tool	T10265	*3520-25*

Item	Art. No.
Timing Tool Set, Audi / VW	36609

for engine codes:
CFCA, CKFB, CKFC, CLHA, CLHB, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKA, CRKB, CRLB, CRLC, CRMB, CRUA, CRVA, CRVC, CSUA, CSUB, CSUD, CSUE, CUAA, CUNA, CUPA, CUSA, CUSB, CUTA, CUUA, CUUB, CUUC, CUUD, CUUE, CUUF, CUVA, CUVC, CUVD, CUWA, CXEB, CXFA, CXGA, CXGB, CXHA, CXMA, CXXA, CXXB, CYKA, CYZA, CYZB, CZJA, DBGA, DBGB, DBGC, DBKA, DCXA, DCZA, DDAA, DEUA, DEUB, DFCA, DFEA, DFEB, DFGA, DFGB, DFGC, DFHA, DFLA, DFLD, DFMA, DFSA, DFSB, DFSC, DFSD, DFSE, DFSF, DGDA, DGDB, DSRA, DSRB

Camshaft Sprocket Puller and Holder, Audi / VW

- for 1.6 and 2.0 L TDI Common-Rail engines
- accessory tools for e.g. No. 3520-1
- required for recent common-rail engines

Content	OEM Comparison No.	Art. No.
Camshaft Sprocket Counter Holder	T10051	*6610-01*
Camshaft Sprocket Puller	T10052	*6610-06*

Item	Art. No.
Camshaft Sprocket Puller / Holder, Audi/VW 1.6/2.0 TDI CR	6611

for engine codes:
CAYA, CAYB, CAYC, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBAB, CABC, CBBA, CBBB, CBDA, CBDB, CBDC, CBEA, CEGA

Balance Shaft Locking Tool, Audi / VW

- for 1.6 and 2.0 L TDI Common-Rail engines
- accessory tools for e.g. No. 3520-1
- required for recent common-rail engines

Item	OEM Comparison No.	Art. No.
Balance Shaft Locking Tool	T10255	6612

for engine codes:
CAYA, CAYB, CAYC, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBAB, CABC, CBBA, CBBB, CBDA, CBDB, CBDC, CBEA, CEGA

High Pressure Pump Sprocket Puller, VAG

- for 1.4, 1.6 and 2.0 L TDI common-rail engines
- in Audi A1, A3, A4, A5, A6, Q5 and TT
- in VW Golf VII, Passat, Polo and Touran
- in Seat Leon, Ibiza and Toledo
- in Skoda Fabia, Oktavia, Rapid and Superb
- for dismantling the high pressure pump
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
High Pressure Pump Sprocket Puller, Audi / VW	T10489	6675

for engine codes:
CDBA, CDCA, CKFB, CKFC, CLHA, CLHB, CLHC, CNEA, CNFA, CNFB, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKA, CRKB, CRLB, CRLC, CRLD, CRMB, CRUA, CRVA, CRVC, CSHA, CSUA, CSUB, CSUD, CSUE, CUAA, CUNA, CUPA, CUSA, CUSB, CUTA, CUUA, CUUB, CUUC, CUUD, CUUE, CUUF, CUVA, CUVB, CUVC, CUVD, CUVE, CUWA, CXEB, CXEC, CXFA, CXGA, CXGB, CXHA, CXHB, CXMA, CXXA, CXXB, CYKA, CYKB, CYKC, CZJA, DASA, DASB, DAUA, DAUB, DAVA, DAWA, DAWB, DBGA, DBGB, DBGC, DBKA, DCXA, DCYA, DCYB, DCZA, DDAA, DDCA, DDCB, DDDA, DDYA, DDYB, DEJA, DEJB, DESA, DETA, DETB, DEUA, DEUB, DEUC, DEZB, DEZD, DEZE, DEZF, DFBA, DFCA, DFEA, DFEB, DFFA, DFGA, DFGB, DFGC, DFHA, DFLA, DFLD, DFMA, DFSA, DFSB, DFSC, DFSD, DFSE, DFSF, DFTA, DFTB, DFTC, DFUA, DGCA, DGDA, DGDB, DGTA, DGTC, DGTD, DGTE, DJGA, DLTA, DLTC, DLUB, DTRD, DTTA, DTTC

Timing Tool Set, Audi / VW

- for 2.5L 5-cylinder and 4.9L 10-cylinder TDI pump-injector diesel engines
- in VW Phaeton, T5 and Touareg
- for locking the camshafts and crankshaft
- for counter holding during camshaft sprocket assembly
- for replacing cylinder head gaskets
- for checking engine timing or cylinder head repair
- Note: for 4.9L engines (AJS, AYH, BKW, BLE, BWF, CBWA) additional tools OEM T10195 and T10200 (3 pcs.) may be required.

Content	OEM Comparison No.	Art. No.
Crankshaft Wrench, with screw	T10225	*6625-03*
Camshaft Locking Tool	T10193	*6625-06*
Camshaft Locking Tool	T10194	*6625-07*
Crankshaft Locking Tool, with 2 pins	T10226	*6625-04*
Camshaft Clamping Tool	T10199/1	*6625-01*
Insertion Tool	T10234	*6625-08*
Camshaft Clamping Tool	T10199	*6625-02*

Item	Art. No.
Timing Tool Set, Audi / VW 2.5 TDI	36625

for engine codes:
AXD, AXE, BAC, BLJ, BLK, BNZ, BPD, BPE, AJS, AYH, BKW, BLE, BWF, CBWA

Timing Tool Set, Audi / VW

- for 2.7 / 3.0 L TDI-V6 and 4.0 / 4.2 L TDI-V8 diesel engines
- in Audi A4, A5, A6, A7, A8, Q5 and Q7
- in VW Touareg and Phaeton
- in Porsche Cayenne
- for locking the camshafts, balance shafts and crankshaft
- for locking the tensioner device
- for replacing the drive belt on the high pressure pump
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
High Pressure Pump Sprocket Locking Tool	T40135	*6627-04*
Injection Pump Locking Pin	3359	*3520-14*
High Pressure Pump Locking Pin	T40245	*6627-05*
Camshaft Tool	T40061	*6627-02*
Crankshaft Rotation Adapter	T40058	*6632-04*
Camshaft Locking Tool	T40060	*6627-06*
Chain Tensioner Locking Pin	T40071	*6627-07*
Crankshaft Locking Pin	3242 / T40237	6634
Chain Tensioner Locking Tool		*6627-08*
Crankshaft Rotation Adapter	T40049	*6627-03*
Camshaft Locking Tool	T40062	*6627-01*

Item	Art. No.
Timing Tool Set, Audi / VW	36627

for engine codes:
ASB, ASE, BKN, BKS, BMK, BMZ, BNG, BPP, BSG, BTR, BUG, BUN, BVN, CAMA, CAMB, CANA, CANB, CANC, CAND, CAPA, CARA, CARB, CAS, CASA, CASB, CASC, CASD, CATA, CCFA, CCFC, CCLA, CCMA, CCWA, CCWB, CDSB, CDTA, CDTB, CDUC, CDYA, CDYB, CDYC, CEXA, CEXB, CGKA, CGKB, CGQB, CJGA, CJGC, CJMA, CKVB, CKVC, CLAA, CLAB, CLZB, CMHA, CRCA, CRCB, CVWA, MCUDB, M059D, M059E

Water Pump Tool, Audi / VW

- for 2.5 L TDI pump-injector diesel engine with 5 cylinders
- in Volkswagen T5 and Touareg 7L
- for turning the engine to top dead center of the first cylinder
- for pulling the water pump sprocket
- for removing the water pump

Content	OEM Comparison No.	Art. No.
Crankshaft Wrench, with screw	T10225	*6625-03*
Puller for Water Pump Sprocket	T10221A	*4280-01*
Extractor for Water Pump	T10222A	*4280-03*

Item	Art. No.
Water Pump Tool, Audi / VW	36680

for engine codes:
AXD, AXE, BAC, BLJ, BLK, BNZ, BPC, BPD, BPE

Timing Tool Set, Audi / VW, 33 pcs.

- also suitable for identically constructed engines, e.g. in Ford and Volvo
- petrol engines: 1.2 6V, 1.2 12V, 1.4, 1.6, 1.8, 1.8T, 2.0 16V, found in e.g.
  Audi: 80, A2, A3, S3, A4, A6, TT
  Seat: Alhambra , Arosa, Cordoba, Ibiza, Inca, Leon, Toledo
  Skoda: Fabia, Octavia (from 96)
  VW: Bora, Caddy, Fox, Golf, Lupo, New Beetle, Passat, Polo, Sharan, Touran
- diesel engines: 1.2, 1.4, 1.9, 2.0 TDI PD 1.7, 1.9 D / TD / SDI / TDI, 2.5 V6 TDI, found in e.g.
  Audi: 80, A2, A3, A4, A6, Cabrio (95-00)
  Seat: Alhambra, Arosa, Altea, Cordoba, Ibiza, Inca, Leon, Toledo
  Skoda: Fabia, Felicia, Octavia (93-05)
  VW: Bora, Caddy, Golf, Lupo, New Beetle, Passat, Polo, Sharan, Transporter, Touran

for engine codes:
AFB, AFK, AHW, AJV, AKQ, APE, AQQ, ARC, ARR, ATN, AUA, AUB, AUS, AVY, AXP, AZD, BAD, BBY, BBZ, BCA, BCB, BKY, BUD, BXW, ABM, ADA, ADP, AEH, AEK, AFT, AHL, AKL, AKS, ALZ, ANA, APF, ARM, AUR, AVU, AYD, BFQ, BFS, BGU, BSE, BSF, ABS, ADR, ADZ, AGN, AJP, APG, APT, APX, ARG, AEB, AGU, AJH, AJL, AJQ, AMK, ANB, APP, APU, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AVC, AWC, AWT, AWU, AUQ, AYP, BAM, ADL, 2E, AAC, AAE, ABF, ABK, ABT, ACE, ADY, AEG, AGG, AKT, APK, AQY, ATM, ATU, AWF, AWG, AXA, AZH, AZJ, AZL, AZM, BEH, AHB, AHG, AKU, AKW, 1X, 1Y, AAZ, ABL, AEF, AEY, AGD, AGP, AQM, ASX, ASY, AYQ, AFF, AFN, AGR, AHF, AHH, AHU, ALE, ALH, ASV, AVGANY, AYZ, AMF, ATL, BAY, BHC, BNM, BNV, AJM, AMG, ANU, ARL, ASZ, ATD, ATJ, AUY, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, BEW, BJB, BKC, BKE, BLS, BLT, BPX, BRB, BRM, BRU, BSV, BSW, BTB, BVK, AUYAZV, BKD, BDJ, BDK, BGW, BHW, BKP, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRC, BRE, BRF, BRT, BSS, BUY, BUZ, BVE, BVF, BVG, BVH, BWV

Content	OEM Comparison No.	Art. No.
Camshaft Timing Rule	3418	*3520-01*
Camshaft Locking Tool	3458	*3520-02*
Crankshaft Locking Pin	3242 / T40237	6634
Tensioner Locking Pin		*3520-04*
Injection Pump Sprocket Locking Pin	3359	*3520-05*
Crankshaft Timing Belt Sprocket Locking Tool, oval	T10100	*3520-06*
Tensioner Pulley Wrench	T10020 / V159 / 3387	4290
Fan Coupler Safety Screw		*3520-08*
Camshaft Timing Rule	2065A	*3520-09*
Crankshaft Timing Belt Sprocket Locking Tool	T10050 / 23059 / 310085 / MB995206 / VM9883	*3520-10*
Tensioner Locking Pin	T40011	*3520-11*
Belt Tensioner Relieve Bolt	T10092	*3520-12*
Front Mask Service Position	3369	*3520-13*
Injection Pump Locking Pin	3359	*3520-14*
Tensioner Locking Tool	T10008	*3520-15*
Camshaft Locking Tool	T10016 / T10074	4299
Injection Pump Sprocket Locking Pin	2064	*3520-17*
Camshaft Timing Rule	T10098A	*3520-18*
Camshaft Locking Tool	T10123	*3520-19*
Crankshaft Locking Bolt	T10121	*3520-20*
Specialist Socket, 1/2", bi-hexagon 22 mm	3078	*3520-21*
Specialist Offset Screwdriver, 6 mm	T10264	*3520-22*
Locking Pin Combination, 4 / 7 / 8 mm		*3520-23*
Tensioner Locking Pin	T10060A	*3520-24*
Tensioner Pulley Locking Tool	T10265	*3520-25*
Chain Tensioner Holder	3366	*3520-26*
Camshaft Locking Tool	T10120	*3520-27*
Locking Pin		*3520-28*

Item	Art. No.
Timing Tool Set, Audi / VW	3520-1

Timing Tool Set, Audi / VW

- for 2.4 and 2.5 L diesel engines
- in VW Crafter, LT and T4
- for timing belt replacement or engine repair

for engine codes:
AAB, ACV, AGX, AHD, AHY, AJA, AJT, ANJ, APA, AUF, AVR, AXG, AXL, AYC, AYY, BBE, BBF, BJJ, BJK, BJL, BJM, CEBA, CEBB, CE-CA, CECB

Content	OEM Comparison No.	Art. No.
Crankshaft Pulley Holding Wrench, 3/4"	T10025	*4281-01*
Injection Pump Sprocket Locking Pin	2064	*3520-17*
Camshaft Timing Rule	2065A	*3520-09*
Feeler Gauges		*4281-04*
Crankshaft Locking Pin	T50009	6638

Item	Art. No.
Timing Tool Set, Audi / VW 2.4 and 2.5L diesel	4281A

Timing Tool Set, Audi / VW

- for 2.5 L diesel engines
- in VW Crafter
- accessory for item No. 4281
- for locking the crankshaft
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Pin, VW	T50009	6638

for engine codes:
BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB

Crankshaft Locking Tool, Audi / VW 1.2, 1.4, 1.9 and 2.0L TDI-PD

- for turbo diesel pump-injection engines
- for locking the round crankshaft belt sprocket
- for locking the injection pump
- for locking the tensioner arrangement
- suitable for VW, Audi, Skoda, Seat and Ford
- 2.0L TDI-PD may require No. 4298-1 instead

Content	OEM Comparison No.	Art. No.
Crankshaft Timing Belt Sprocket Locking Tool	T10050 / 23059 / 310085 / MB995206 / VM9883	*3520-10*
Injection Pump Locking Pin	3359	*3520-14*
Tensioner Locking Tool	T10008	*3520-15*

Item	Art. No.
Crankshaft Locking Tool, Audi / VW 1.2/1.4/1.9 TDI PD	4298

for engine codes:
ANY, AYZ, AMF, ATL, BAY, BHC, BNM, BNV, AJM, AMG, ANU, ARL, ARX, ASZ, ATD, ATJ, AUY, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, BEW, BJB, BKC, BKE, BLS, BLT, BPX, BRB, BRM, BRU, BSV, BSW, BTB, BVK, AZV, BKD, BDJ, BDK, BGW, BHW, BKP, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRC, BRE, BRF, BRT, BSS, BUY, BUZ, BVE, BVF, BVG, BVH, BWV

Crankshaft Locking Tool, Audi / VW 2.0 TDI-PD

- for turbo diesel pump-injection engines
- for locking the oval crankshaft belt sprocket
- for locking the injection pump
- for locking the tensioner arrangement
- suitable for VW, Audi, Skoda, Seat and Ford
- job may require No. 4298 instead

Content	OEM Comparison No.	Art. No.
Crankshaft Timing Belt Sprocket Locking Tool, oval	T10100	*3520-06*
Injection Pump Locking Pin	3359	*3520-14*
Tensioner Locking Tool	T10008	*3520-15*

Item	Art. No.
Crankshaft Locking Tool, Audi / VW 2.0 TDI PD	4298-1

for engine codes:
AZV, BKD, BDJ, BDK, BGW, BHW, BKP, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRC, BRE, BRF, BRT, BSS, BUY, BUZ, BVE, BVF, BVG, BVH, BWV

Camshaft Pulley Puller Set, Audi / VW

- forged
- 4 puller attachments for 5 and 6 spoked sprockets
- suitable for 4, 6, 8 cylinder TDI-engines, V6, V8 petrol engines (from ´98)

Item	OEM Comparison No.	Art. No.
Camshaft Pulley Puller Set	T40001	5410

for engine codes:
AGA, AJG, ALF, ALW, AML, AMM, APC, APS, APZ, ARJ, ARN, ASM, BDV, AGB, AJK, ASJ, ARE, AZA, AZB, AZR, BES, ACK, AEJ, AGE, AHA, ALG, AMX, APR, AQD, ATQ, ATX, AKC, AQG, ANK, AQF, AQH, AQJ, ARS, ARU, ASG, AWN, AUW, AVP, AXQ, BBG, BCY, BFL, BFM, BGH, BGJ, AFB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC

Crankshaft Seal Installer Tool, Audi / VW

- for 1.4 / 1.6 L petrol engines and 1.6 / 2.0 L Common-Rail diesel engines
- for almost all models from Audi, Seat, Skoda and Volkswagen
- for installing the crankshaft seal with sensing wheel when repairing engine leaks or general maintenance
- for vehicles with high mileage this service operation can be carried out proactively during repairs on clutch or transmission, for which the same extensive preparatory work is required

Item	OEM Comparison No.	Art. No.
Crankshaft Seal Installer Tool	T10017 / T10134	6680

for engine codes:
AHW, AKQ, APE, AXP, AZV, BAG, BCA, BLS, BKD, BKP, BLP, BLF, BMA, BMN, BMR, BNA, BRF, BUD, BXW, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CAXC, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CCHB, CDBA, CDCA, CEGA, CFCA, CFFA, CFFB, CFFE, CFFD, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHF, CFHD, CFJA, CFJB, CGGA, CGGB, CGLA, CGLB, CGLC, CGLD, CJAA, CJCA, CJCB, CJCC, CJCD, CKUB, CKUC, CKTB, CKTC, CLCA, CLCB, CLJA, CLLA, CLLB, CLNA, CMFA, CMFB, CMGA, CMGB, CMSA, CNEA, CNFA, CNFB, CSHA, CSLB

Camshaft Fitting Tool, Audi / VW / Porsche

- for all TDI-CR diesel engines with separate camshaft frame
- for 1.2, 1.6, 2.0, 2.7, 3.0, 4.0 and 4.2 L engines
- for positioning the camshaft sprockets
- for fitting the camshafts during cylinder head repair
- this tool is essential in preventing damage to the camshaft thrust bearings, which would require the replacement of the cylinder head
- in Audi A1, A3, A3 Cabrio, A4, A4 Cabrio, A4 Quattro, A5 Coupe/Cabriolet, A5 Sportback, A6, A6 Quattro, A7, A8, Q3, Q5, Q7, SQ5 and TT
- in Porsche Cayenne and Panamera
- in Seat Alhambra, Altea/Altea XL, Exeo, Ibiza, Leon and Toledo
- in Skoda Fabia II, Octavia II, Praktik, Rapid/Rapid Spaceback, Roomster, Superb II and Yeti
- in VW Amarok, Beetle, Caddy/Caddy Maxi, CC, Eos, Golf Plus, Golf V Variant, Golf VI, Golf VI Cabrio, Golf VI Variant, Jetta, Passat, Passat Alltrack, Passat CC, Phaeton, Polo, Scirocco, Sharan, Tiguan, Touareg, Touran, Transporter T5 and Crafter

Content	OEM Comparison No.	Art. No.
Camshaft Holder	T400941	*6690-01*
Camshaft Holder	T400942	*6690-02*
Camshaft Locking Holder	T400943	*6690-03*
Camshaft Holder	T400944	*6690-04*
Camshaft Holder	T400945	*6690-05*
Camshaft Locking Holder	T400946	*6690-06*
Camshaft Holder	T400947	*6690-07*
Camshaft Locking Holder	T400948	*6690-08*
Camshaft Holder	T400949	*6690-09*
Camshaft Holder	T4009410	*6690-10*
Camshaft Locking Holder	T4009411	*6690-11*
Camshaft Gear Teeth Tensioner	T40096 / 115370	*6690-12*
Camshaft Gear Teeth Tensioner	T40096/1	*6690-13*
Camshaft Clamp	T40095	*6690-14*
Positioning Board	T40094A	*6690-15*

Item	Art. No.
Camshaft Fitting Tool, Audi / VW / Porsche	6690

for engine codes:
ASB, ASE, BKN, BKS, BMK, BNG, BPP, BSG, BTR, BUG, BUN, BVN, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CAMA, CAMB, CANA, CANB, CANC, CAND, CAPA, CARA, CASA, CASB, CASC, CASD, CATA, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCFA, CCFC, CCHA, CCHB, CCLA, CCMA, CCWA, CCWB, CDBA, CDCA, CDSB, CDTA, CDTB, CDUC, CDUD, CDYA, CDYB, CDYC, CEGA, CEXA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGKA, CGKB, CGLA, CGLB, CGLC, CGLD, CGLE, CGQB, CJAA, CJCA, CJCB, CJCC, CJCD, CJGA, CJGC, CJGD, CJMA, CKDA, CKTB, CKTC, CKUB, CKUC, CKVB, CKVC, CLAA, CLAB, CLCA, CLCB, CLJA, CLLA, CLNA, CLZB, CMEA, CMFA, CMFB, CMGB, CMHA, CNEA, CNFA, CNRB, CRCA, CRCB, CSHA, M059D, M059E

Camshaft Counterholding Spanner Set, Audi / VW

- for counter-holding on the camshaft sprocket, camshaft phasing unit, oil pump sprocket, drive shaft flange and on the water pump pulley
- for loosening and tightening the fastening screw
- also suitable for turning the crankshaft when checking the timing
- with spare compartment for item No. 6685-14

Content	OEM Comparison No.	pcs	Art. No.
Round pins, 3-step	T101721	2	*6685-01*
Round pins, ø 11.6 mm	T101722	2	*6685-02*
Square pins, 15 x 6 mm	T101724	2	*6685-04*
Retaining sleeves, ID = 13 mm	T101725	2	*6685-05*
Retaining sleeves, ID = 16.1 mm	T101726	2	*6685-06*
Spline pins, M10	T101727	2	*6685-07*
Spline pins, M12	T101728	2	*6685-08*
Round pins, ø 6.0 mm x 15 mm	T101729	2	*6685-09*
Round pins, ø 4.8 mm x 15 mm	T1017210	2	*6685-10*
Square pins, 15 x 12 mm	T1017211	2	*6685-11*
Counter handle	T10172A		*6685-12*
Retaining tool adapter	T10554		*6685-13*

Item	pcs	Art. No.
Camshaft counterholding spanner set, Audi / VW	22	36685

Camshaft Sprocket Retaining Adapter for Camshaft Phaser, VW / Audi / Ford

- for 1.0 and 1.5 L (EA 211 Evo) petrol engines
- in almost all group vehicles from Audi, Seat, Skoda and VW
- in Ford Tourneo Connect (V761) and Transit Connect (V761)
- to counterhold the camshaft sprocket and camshaft phaser
- when loosening and tightening the fastening screw

Item	OEM Comparison No.	Art. No.
Camshaft Sprocket Retaining Adapter	T10575A, 3031727	6685-14

Crankshaft Pulley Holding Wrench

- for cars from Audi, Skoda, Seat and VW
- for counter holding when loosening the crankshaft bolt
- suitable for many cars from Volkswagen corporation with 1.6 L engine

for engine codes:
ARC, ATN, AUS, AVY, AZD, BCB

Item	OEM Comparison No.	Art. No.
Crankshaft Holding Wrench	T10028	4282

Crankshaft Holding Wrench

- for cars from Audi, Skoda, Seat and VW
- in Audi A2, A3, A4, A6 and TT
- in VW Beetle, Bora, Caddy, Golf, Lupo, Polo, Sharan, Touran and Transporter
- in Skoda Fabia, Octavia and Superb
- with pin ø 11.5 mm and M8 bolt
- for counter holding when loosening the crankshaft bolt

for engine codes:
ADX, AEA, AEE, AEH, AEX, AFH, AFK, AGP, AGR, AHW, AJM, AKL, ALN, AMF, ANA, ANY, APE, APF, ARM, ATJ, AUA, AWH

Item	OEM Comparison No.	Art. No.
Crankshaft Holding Wrench	T30004 / 3415	5483

Crankshaft Pulley Holding Wrench

- for cars from Audi, Skoda, Seat and VW
- for cars with 1.8 and 2.0 L TSI / FSI / TFSI engines
- with 4 exact fitting pins
- for counter holding when loosening the crankshaft bolt

for engine codes:
CABD, CABA, CABB, CDHA, CDHB, CDNC, CDAA, CCZA, CCTA, CBFA, CCZC, CPSA, CDNB, CAWB, CAWA, CCZB, CCZD, CCAA, CCAB, CJEB, CDAB, CGYA

Item	OEM Comparison No.	Art. No.
Crankshaft Holding Wrench	T10355	4283

for engine codes:
CHPA, CHPB, CHYA, CHYB, CHZB, CHZC, CHZD, CHZG, CHZJ, CHZK, CHZL, CJZA, CJZB, CJZC, CJZD, CMBA, CPGA, CPTA, CPVA, CPVB, CPWA, CRJA, CUKB, CUKC, CWVA, CWVB, CXSA, CXSB, CYVA, CYVB, CYVD, CZCA, CZDA, CZDB, CZEA, DACA, DACB, DADA, DAFA, DHFA, DKJA, DKLA, DKLB, DKRA, DKRF

Crankshaft Counter Holder

- for vehicles with FSI/TFSI engines
- for most models of Audi, Skoda, Seat and VW from 2012 onwards
- with safety screw against slipping
- for counter holding when loosening the crankshaft bolt
- when changing the timing belt or repairing the engine

Item	OEM Comparison No.	Art. No.
Crankshaft Holding Wrench	T10475	5482

for engine codes:
AAH, ABC, ACZ, AEJ, AFC, AGA, AJG, ALF, ALW, AML, AMM, APC, APS, APZ, ARJ, ARN, ASM, BDV, AGB, AJK, ASJ, ARE, AZA, AZB, AZR, BES, ACK, AGE, ALG, AMX, APR, AQD, ATX, BBGAFM, ABZ, AKC, ANK, AQF, AQG, AQJ, ARS, ARU, ASG, AUW, AVN, AWN, AXQ, BFL, BGH, BGJ, BHX

Crankshaft Locking Pin, V6 / V8 engines, Audi / VW

- for diesel and petrol engines from VW, Audi and Skoda
- in Audi A4, A6, S6, A8 and S8
- in VW Passat, Phaeton and Touareg
- in Skoda Superb

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Pin	3242 / T40237	6634

4290

4291

Timing Belt Tensioner Wrench, Audi / VW

- 180° sviwel head with locking screw
- suitable for VW 4 and 5-cylinder TDI engines and power-steering pump on T4

Item	OEM Comparison No.	Description	Art. No.
Tensioner Pulley Wrench	T10020 / V159 / 3387		4290
Tensioner Pulley Wrench	T10020 / V159 / 3387	extra flat	4291

Tensioner Wrench, 32 mm, Audi / VW

- for operating the automatic timing belt tensioner, e.g. for belt replacement
- also suitable for identically constructed engines e.g. from Volvo
- suitable for:
  Audi: 100 from 1991, A4, A6 TDI 5 cyl.
  VW: Polo, Lupo from 1999, VW LT 2.5 TDI

Item	Size	OEM Comparison No.	Art. No.
Tensioner Pulley Wrench	32 mm	3355, 9995649	5488

for engine codes:
M96, M986, M987, M996, M997

Timing Tool Set, Porsche

- for 2.5, 2.7, 3.2, 3.4 and 3.6L engines
- in Porsche 986/987 (Boxster) 2.5L (from '98), 2.7L (from '00), 3.2L (from '00)
- in Porsche 996/997 (911s) Carrera 4S 3.6L (from '02) and 996 3.4L (from '02)
- for locking the camshaft and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Pin Driver and Extension	9602 / 00072196020	*6930-01*
Piston Assembly Alignment	9608 / 00072196080	*6930-02*
Camshaft Holder	9611 / 00072196110	*6930-03*
Camshaft Holder	9634 / 00072196340	*6930-04*
Camshaft Locking Tool	9612 / 00072196120	*6930-05*
Cranshaft Pulley Locking Pin	9595 / 00072195950	*6930-06*

Item	Art. No.
Timing Tool Set, Porsche	36930

Timing Tool Set, Porsche

- for 4.5L S, 4.5L Turbo and 4.5L Turbo S engines
- in Porsche Cayenne 9PA / 948 4.5L S, 4.5L Turbo, 4.5L Turbo S and Panamera
- for locking the camshaft and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Timing Chain Tensioner	96831 / 00072196831	*6931-01*
Crankshaft Socket	9714 / 00072197140	*6931-02*
Crankshaft locking pins	95951 / 00072195951	*6931-03*
Camshaft Locking Tool	9678 / 00072196780	*6931-04*
Camshaft Alignment Tool	96781 / 00072196781	*6931-05*

Item	Art. No.
Timing Tool Set, Porsche	36931

for engine codes:
M4800, M4850, M4850S, M4850T

Timing Tool Set, Porsche

- for 2.7, 3.2, 3.4, 3.6 and 3.8L engines
- in Porsche Boxster 986 2.7L (engine code M96/23), 986 3.2L S (engine code M96/23), 987 3.2L S (engine code M96/26) and Boxster / Cayman 987 3.4L S (engine code M97/21)
- in Porsche Carrera 996 3.6L (engine code M96/03 and M96/03 S), 997 3.6L (engine code M95/05), S 997 3.8L (engine code M97/01) and S 997 3.8L (engine code M97/01S)
- for locking the camshaft and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft locking pins	95951 / 00072195951	*6931-03*
Camshaft Adjuster Holding Tool	9685 / 00072196850	*6932-02*
Camshaft Rule	9686 / 00072196860	*6932-03*

Item	Art. No.
Timing Tool Set, Porsche	36932

for engine codes:
M9603, M9603S, M960, M9623, M9626, M9701, M9701S, M9721

Timing Tool Set, BMW

- for 1.6, 1.8 and 2.0 L 4-cylinder petrol engines with twin camshafts
- in BMW 1-series, 3-series, 5-series, Z4 and X3
- for models E46, E60/61, E81, E83, E85, E87 and E90/91
- for locking the camshafts and crankshaft
- for timing the variable camshaft settings
- when disassembling / assembling camshafts and variable setting arrangement
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Bearing Bracket Holder	119320 (+ 6115-13 + 6115-17)	*6115-02*
Assembly Bolt	119320 (+ 6115-02 + 6115-13)	*6115-17*
Assembly Bolts	119320 (+ 6115-02 + 6115-17)	*6115-13*
Chain Tensioner Adjustment Tool	119340 / 0197M	*6115-07*
Camshaft Locking Tool	119290 / 119291	*6115-05*
Fixing Screw	119290 / 119293	*6115-14*
Camshaft Locking Tool	119290 / 119292	*6115-15*
Spring Clip Holder	119390 (+ 6115-10)	*6115-08*
Fixing Screw	119390 (+ 6115-08)	*6115-10*
Eccentric Shaft Holder	119301	*6115-04*
Balance Shaft Locking Tool (old)	119330	*6135-05*
Crankshaft Locking Pin, offset	119190	*6115-16*
Knurled Screw	119303	*6115-03*
Camshaft Locking Tool	119302	*6115-06*
Balance Shaft Locking Tool (new)	115140	*6135-02*
Crankshaft Locking Pin	112300 / KM813 / LRT12108 / LRT12171	6114
Camshaft Rotation Wrench	119270	*6115-11*
Intermediate Lever Clamps	119310	*6115-01*
Camshaft Sensor Locking Tool	119350	*6115-09*

Item	Art. No.
Timing Tool Set, BMW N42/46/46T	36115

for engine codes:
N42, N46, N46T

Crankshaft/Flywheel Locking Tool, BMW

- for 1.4, 1.6, 1.8, 2.0, 2.5, 3.0 L petrol and diesel engines
- in BMW series 1, 3, 5, 6, 7, X3 and X5
- in Mini One
- for locking the crankshaft through the bell housing (does not require disassembly of the transmission)
- for loosening crankshaft bolts, flywheel or pulleys
- for working on vibration absorber, timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Locking Tool, base body	118183	*6170-01*
Locking Tool, bar	118182	*6170-02*
Locking Tool, adapter M67	118184	*6170-03*
Locking Tool, adapter M47TU	118185	*6170-04*

Item	Art. No.
Crankshaft/Flywheel Locking Tool, BMW	36170

for engine codes:
M47T2, M47TU, M57T2, M57TU, M67, N43, N45, N45T, N46, N46NT, N47, N47S, N51, N52, N53, N53K, N54, W17

Balancer Locking Tool Set, BMW

- for 1.6, 1.8 and 2.0L 4-cylinder petrol engines
- in BMW series 1 (E81 / E82 / E87 / E88), 3 (E46 / E90 / E91 / E92 / E93), 5 (E60 / E61), X1 (E84), X3 (E83) and Z4 (E85 / E86)
- for locking the balancer shafts (old and new version)
- for locking the chain tensioner
- for counter holding the crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Balance Shaft Locking Tool (new)	115140	*6135-02*
Support Bolt for Crankshaft Counter Holder	114362	*6135-03*
Crankshaft Counter Holder	119280	*6135-01*
Chain Tensioner Locking Pin	113340 / KM823 / LRT12172	*6135-04*
Balance Shaft Locking Tool (old)	119330	*6135-05*

Item	Art. No.
Balancer Locking Tool Set, BMW	36135

for engine codes:
N40B16A, N42B18A, N42B20A, N43B16AA, N43B16O0, N43B20A, N43B20AA, N43B20AY, N43B20K0, N43B20U0, N45B16A, N45B20AA, N45TB16AC, N46B18, N46B20, N46B20B, N46TB20, N46TB20B, N46TB20BD, N46TB20BZ, N46TB20O2

Timing Tool Set, BMW

- for 1.6L 4-cylinder petrol engines with twin camshafts
- in BMW 1-series (E81/E87) and 3-series (E46/E90)
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Sprocket Locking Tool	117260	*6118-01*
Camshaft Locking Tool, outlet	117251	*6118-02*
Chain Tensioner Adjustment Tool	119340 / 0197M	*6115-07*
Camshaft Locking Tool, inlet	117252	*6118-04*
Crankshaft Locking Pin, offset	119190	*6115-16*
Connection Screw	117253	*6118-06*
Camshaft Rotation Wrench	119270	*6115-11*

Item	Art. No.
Timing Tool Set, BMW	36118

for engine codes:
N40B16, N45B16, N45TB16

Timing Tool Set, BMW

- for 1.6 and 2.0L 4-cylinder petrol engines with twin camshafts
- in BMW 1-series (E81/E82/E87/E88), 3-series (E90/E91/E92/E93) and 5-series (E60/E61)
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	118690	*6143-01*
Timing Guide Vanos	118710	*6143-03*
Chain Tensioner Locking Tool	113340 / KM823 / LRT12172	*6105-06*
Balance Shaft Locking Tool	118700	*6143-05*
Chain Tensioner Adjustment Tool	119340 / 0197M	*6115-07*
Flywheel Locking Pin	115120	*6143-06*

Item	Art. No.
Timing Tool Set, BMW	36143

accessory

Item	Art. No.
Balancer Locking Tool Set, BMW	36135
Crankshaft/Flywheel Locking Tool, BMW	36170
Timing Chain Control Pin, for BMW / Mini engines	6102

for engine codes:
N43

Oil Pump and Balance Shaft Locking Tool Set, BMW

- for 1.6 and 2.0 L 4-cylinder petrol engines
- in BMW series 1 (F20/21), 2 (F22/23/87), 3 (F30/31/34/80), 4 (F32/33/36/82/83), 5 (F07/10/11), X1 (E84), X3 (F25), X4 (F26), X5 (F15/85) and Z4 (E89)
- for locking the oil pump and balance shaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Oil Pump Sprocket Locking Tool, 3 pcs.	2318117	*6127-01*
Balance Shaft Locking Tool	2212825	*6127-02*
Chain Tensioner Locking Pin	114120	*6127-03*

Item	Art. No.
Oil Pump and Balance Shaft Locking Tool Set, BMW	36127

for engine codes:
N20B16A, N20B20, N20B20A, N20B20B, N26B20, N26B20A

Timing Tool Set, BMW N20 / N26

- for 1.6 and 2.0 L 4-cylinder petrol engines
- in BMW series 1 (F20/21), 2 (F22/23/87), 3 (F30/31/34/80), 4 (F32/33/36/82/83), 5 (F07/10/11), X1 (E84), X3 (F25), X4 (F26), X5 (F15/85) and Z4 (E89)
- for locking the crankshaft and camshafts
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool, 3 pcs.	2212831	*6126-01*
Flywheel / Driving-Disc Locking Pin	2219548	*6126-02*
Sensor Pulse Wheel Adjustment Tool, 3 pcs.	2212830	*6126-03*
Chain Tensioner Adjustment Tool	119340 / 0197M	*6115-07*

Item	Art. No.
Timing Tool Set, BMW	36126

accessory

Item	Art. No.
Crankshaft Locking Tool, BMW	6109

for engine codes:
N20B16A, N20B20, N20B20A, N20B20B, N26B20, N26B20A

Timing Tool Set, BMW

for engine codes:
N51, N52, N53, N53K, N54, N55

- for 2.5 and 3.0 L straight 6 cylinder petrol engines
- in BMW series E60, E61, E63, E64, E65, E66, E70, E71, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, F01, F07, F10, F11, F12, F13, F15, F16, F25, F26, F30, F31, F32, F34, F36 and F87
- in Alpina B3 and B3S from 2006 onwards
- for locking the camshafts and crankshaft
- for assembly of the Vanos arrangement
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Vanos-Sensor Locking Tool	114290	*6154-01*
Camshaft Vanos-Sensor Locking Tool	118520	*6154-02*
Camshaft Locking Frame	114280 (+ 6154-04)	*6154-03*
Camshaft Locking Brackets	114280 (+ 6154-03)	*6154-04*
Crankshaft Locking Tool	110300	*6154-05*
Chain Tensioner Adjustment Tool	119340 / 0197M	*6115-07*
Assembly Bolts, long		*6154-06*
Assembly Bolts		*6154-07*
Assembly Bolts, short		*6154-08*

Item	Art. No.
Timing Tool Set, BMW N51/52/53/54/55	36154

Crankshaft Locking Tool, BMW N20/N26/N53/N54/N55

for engine codes:
N20B16A, N20B20, N20B20A, N20B20B, N26B20, N26B20A, N53B25A, N53B30A, N54B30A, N54B30AA, N55B30A, N55B30M0

- for vehicles with automatic transmission
- for locking the crankshaft with the starter ring gear
- for loosening and tightening the crankshaft bolt
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Tool, BMW	118660	6112

Timing Tool Set, BMW N63 / S63 / N7

for engine codes:
N63B44A, N74B60A, N74B66A, N74B66B, N74B66C, N74B68A, S63B44A

- for 4.4, 6.0, 6.6 and 6.8 L V8 and V12 petrol engines
- in BMW series 5 (F07/10/11), 6 (F12/13), 7 (F01/02/03/04, G11/12), X5 (E70) X6 (E71/72) and X7 (G07)
- in Alpina B5, B6 and B7
- in Rolls-Royce Cullinan (RR31), Dawn (RR6), Ghost (RR4), Phantom VIII (RR11/12) and Wraith (RR5)
- in Wiesmann MF4 Roadster and GT MF4 Coupe
- for locking the camshafts and crankshaft
- for aligning the camshafts and for pretensioning the timing chain
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Holder Camshaft Locking Tools	119892	*6163-01*
Camshaft Adjustment Tool (2 pcs.)	119893	*6163-02*
Fastening Screw for Camshaft Adjustment Tool	119891	*6163-03*
Adapter Camshaft Adjustment Tool	119895	*6163-04*
Adapter Camshaft Adjustment Tool	119894	*6163-05*
Crankshaft Locking Tool	118090	*6163-06*
Timing Chain Pretensioning Tool	119900	*6163-07*
Crankshaft Locking Tool	118570	*6162-26*
Crankshaft Locking Pin, offset	119190	*6115-16*

Item	Art. No.
Timing Tool Set, BMW N63 / S63 / N74	36163

Timing Tool Set, BMW S65

- for 4.0 and 4.4 L V8 petrol engine
- in BMW M3 / M3 GTS (E90, E92, E93)
- in Wiesmann MF4 (Roadster / Coupé)
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	119970, 119971, 119972	*6165-01*
Crankshaft Locking Pin	115320	*6120-03*
Camshaft Gear Teeth Tensioner	T40096 / 115370	*6690-12*
Disassembly Tool Tensioning Rail	115290, 115291, 115292	*6165-02*

Item	Art. No.
Timing Tool Set, BMW S65	36165

for engine codes:
S65B40A, S65B44A

Timing Tool Set, BMW N63 / S63

- for 4.4 L V8 petrol engines from 2011
- in BMW series 5 (F07/10/11/90, G30/31), 6 (F06/12/13), 7 (F01/02/04, G11/12), 8 (G14/15), X5 (F15/85, G05), X6 (F16/86, G06) and X7 (G07)
- in Alpina B5, B6 and B7
- for locking and aligning the camshafts and crankshaft
- for pre-tensioning the timing chain
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Adjustment Gauge	2249137 / 2249117	*6162-21*
Camshaft Adjustment Gauge	2249140 / 2249117	*6162-22*
Camshaft Adjustment Gauge	2249144 / 2249117	*6162-23*
Camshaft Adjustment Gauge	2249159 / 2249117	*6162-24*
Timing Chain Pretensioning Tool	2249162	*6162-25*
Crankshaft Locking Tool	118570	*6162-26*
Crankshaft Locking Pin, offset	119190	*6115-16*
Loosening Wrench for Camshaft Phaser	2360895	*6158-02*
Chain Tensioner Locking Pin	114120	*6127-03*

Item	Art. No.
Timing Tool Set, BMW N63 / S63	36162

for engine codes:
N63B44B, N63B44C, N63B44D, S63B44B

Timing Tool Set, BMW

- for V8 petrol engines with and without variable camshaft settings
- in BMW series E31, E32, E34, E38, E39, E53 and in Range Rover and Morgan vehicles with identical engines
- for locking the chain tensioner, camshaft and crankshaft
- for assembly of the Vanos arrangement
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Vanos Sleeve	116420 / LRT 12-226	*6162-01*
Timing Chain Tensioning Block	117380 / LRT 12-221	*6162-02*
Vanos Timing Tool	116440 / LRT 12-224	*6162-03*
Camshaft Locking Tool, right	116452 / LRT 12-228/1	*6162-04*
Camshaft Locking Tool, left	116451 / LRT 12-228/2	*6162-05*
Camshaft Locking Tool, inlet, right	112441 / LRT 12-223/1	*6162-06*
Camshaft Locking Tool, outlet, right	112445 / LRT 12-223/2	*6162-07*
Camshaft Locking Tool, outlet, left	112446 / LRT 12-223/4	*6162-08*
Camshaft Locking Tool, inlet, left	112442 / LRT 12-223/3	*6162-09*
Timing Chain Tensioner	113390 / 114230 / LRT 12-222	*6162-10*
Crankshaft Locking Pin	112300 / KM813 / LRT12108 / LRT12171	6114
Crankshaft Locking Tool	115180 / LRT12227	*6162-12*
Second Tensioner Locking Tool	113310 / LRT 12-220	*6162-13*

Item	Art. No.
Timing Tool Set, BMW M60/62	6162

for engine codes:
M60B30, M62B35, M60B40, M62B44, M62B46, M62TUB35, M62TUB44, V8448S2, 308S1, 358S1, 358S2, 408S1, 448S1, 448S2, 468S1

Timing Tool Set, BMW S85

- for 5.0 L V10 petrol engines
- in BMW series 5 (E60/61) and 6 (E63/64)
- in Wiesmann MF5 Roadster and GT MF5 Coupe
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Disassembly Gauge Vanos Unit	115410	*6185-01*
Camshaft Gauge, 4 pcs.	115300 / 115301 / 115302	*6185-02*
Crankshaft Rotation Tool	115100	*6185-03*
Tool for Vanos gearbox	115380 / 115381 / 115382	*6185-04*
Camshaft Gear Teeth Tensioner	T40096 / 115370	*6690-12*
Crankshaft Locking Pin	115320	*6120-03*

Item	Art. No.
Timing Tool Set, BMW S85	36185

for engine codes:
S85B50A

Camshaft Locking Tool, BMW

- for locking the camshaft during engine repairs

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	113240	6111

for engine codes:
M42, M50, M52, M52TU, M54, M56

Camshaft Locking Tool, BMW

- for locking the camshaft during engine repairs

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	113190	6113

for engine codes:
M40, M43

Crankshaft Locking Pin, BMW

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Pin	112300 / KM813 / LRT12108 / LRT12171	6114

for engine codes:
M40, M42, M43, M44, M50, M52, M52TU, M54, M56

Timing Tool Set, BMW M47 / M57

- for diesel engines with 4 and 6 cylinders
- also suitable for identically constructed engines from Alpina, Landrover, MG, Opel and Rover
- in BMW series 1, 3, 5, 6, 7, X3, X5 and X6
- for models E38, E39, E46, E53, E60/61, E63/64, E70, E71/72, E83, E87 and E90/91/92/93
- for locking the camshaft, crankshaft and balancer shafts
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	116320 / KM6267 / LRT12174 (+ 6105-02)	*6105-01*
Camshaft Locking Tool Holder	116320 / KM6267 / LRT12174 (+ 6105-01)	*6105-02*
Chain Tensioner Locking Tool	113340 / KM823 / LRT12172	*6105-06*
Crankshaft Locking Pin	112300 / KM813 / LRT12108 / LRT12171	6114
Injection Pump Tool	135190 / LRT12178	3517
Crankshaft Locking Pin	115180 / LRT12227	*6105-05*
Crankshaft Locking Pin	116080	*6105-04*

Item	Art. No.
Timing Tool Set, BMW M47 / M57	36105

for engine codes:
M47, M47D20, M47T2, M47TU, M57, M57D30, M57T2, M57TU, Y25DT, 204D1, 204D2, 204D3, 204D4, 256D1, 256D2, 306D1, 306D2, 306D3, 306D4, 306D5

Timing Tool Set, BMW / Mini

- for 1.6, 2.0 und 3.0 L diesel engines with 4 and 6 cylinders and twin camshafts
- in BMW series 1 (E81/82/87/88, F20/21), 3 (E90/91/92/93, F30/31), 5 (E60/61, F07/10/11), 6 (F06/12/13), 7 (F01/02/04), X1 (E84), X3 (E83, F25), X5 (E70) and X6 (E71/72)
- in Mini Clubman (R55/56/57), Countryman (R60), Coupe Cooper (R58), Paceman (R61) and Roadster (R59)
- for removal and assembly of the high-pressure injection pump
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	118760	*6120-04*
Crankshaft Locking Pin	115320	*6120-03*
Chain Tensioner Locking Tool	113340 / KM823 / LRT12172	*6105-06*
Sprocket Wheel Puller, high pressure pump	118740	61205
Crankshaft Rotation Tool	116480	*6120-01*
Bit Holder		20620

Item	Art. No.
Timing Tool Set, BMW / Mini	36120

for engine codes:
N47, N47S, N47T, N57

accessory

Item	Art. No.
Crankshaft Counter Holder, BMW N47 / N57	6121
Locking Tool Set, BMW / Mini, 2 pcs.	6107
Crankshaft Counter Holder, BMW / Mini	6108

Locking Tool Set, BMW / Mini, 2 pcs.

- for 1.2, 1.5, 1.6, and 2.0 L petrol engines with 3 and 4 cylinders and 1.5 and 2.0 L diesel engines with 3 and 4 cylinders
- in BMW series 1, 2, 3, 4, 5, 7, i8, X1, X2, X3, X4 and Z4
- in Mini Clubman, Convertible, Hatch and One
- for locking the crankshaft and flywheel (on automatic gearboxes)
- for timing chain replacement or engine repair

Item	OEM Comparison No.	pcs	Art. No.
Locking Tool Set	2288380 / 2365488	2	6107

for engine codes:
B37, B38, B46, B47, B48

Crankshaft Counter Holder, BMW / Mini

- for 1.2, 1.5, 1.6, 2.0 and 3.0 L petrol engines with 3, 4 and 6 cylinders and 1.5 and 2.0 L diesel engines with 3 and 4 cylinders
- in BMW series 1, 2, 3, 4, 5, 7, i8, X1, X2, X3, X4 and Z4
- in Mini Clubman, Convertible, Hatch and One
- for locking the crankshaft
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Crankshaft Counter Holder	2357904	6108

for engine codes:
B37, B38, B47, B48, B58

Crankshaft Counter Holder, BMW N47 / N57

- for 1.6 and 2.0 N47 diesel engines (up to 04/2013) and 3.0L N57 diesel engines
- in BMW series 1 (E81/E82/E87/E88/F20/F21), 2 (F22/F87), 3 (E90/E91/E92/E93/F30/F31/F34/F35/F80), 4 (F32/F33/F36/F82/F83), 5 (E60/E61/F07/F10/F11/F18), 6 (F06/F12/F13), 7 (F01/F02/F03/F04), X1 (E84), X3 (E83/F25), X4 (F26), X5 (E70/F15/F85), X6 (E71/E72/F16/F86)
- in Mini series R55 / R56 / R57 / R58 / R59 / R60
- for locking the crankshaft
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Crankshaft Counter Holder	114320 / 83302318429	6121

for engine codes:
N47, N47S, N57

Special Socket for Flywheel Bolts, 1/2" , tx-star T60

- in BMW / Mini
- for loosening flywheel mounting bolts, which are sometimes difficult to reach
- when changing the flywheel or engine gasket
- for timing chain replacement or engine repair

Item	Size	Drive	OEM Comparison No.	Art. No.
Special Socket for Flywheel Bolts	T60	1/2"	114180	6160

Crankshaft Locking Tool, BMW / Mini

- for almost all BMW and Mini models
- for locking the crankshaft when the gearbox is removed
- for changing the flywheel or the engine gasket
- for timing chain replacement or engine repair

Content	Size	Drive	OEM Comparison No.	Art. No.
Special Socket for Flywheel Bolts	T60	1/2"	114180	6160
Crankshaft Rotation Tool			116480	*6120-01*
Flywheel Locking Tool			119260 / 119810	*6123-01*

Item	Art. No.
Crankshaft Locking Tool, BMW / Mini	36123

for engine codes:
B37, B38, B46, B47, B48, B57, B58, M47, M54, M57, N13, N20, N26, N40, N42, N43, N45, N46, N47, N51, N52, N53, N54, N55, N57, N62, N63, N73, N74, S55, S58, S63, S65, S85, W17

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Crankshaft Locking Tool, BMW

- for 1.6 and 2.0 L 4-cylinder petrol engines with automatic transmission
- in BMW 1-series (F20/21), 2-series (F22/23/87), 3-series (F30/31/34/80), 4-series (F32/33/36/82/83), 5-series (F07/10/11), X1 (E84), X3 (F25), X4 (F26), X5 (F15/85) and Z4 (E89)
- for locking the crankshaft
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	2222742	6109

for engine codes:
N20B16A, N20B20, N20B20A, N20B20B, N26B20, N26B20A

Crankshaft Counter Holder, BMW N47

- for 1.6 and 2.0L diesel engines from 05/2013 onwards
- in BMW series 1 (E81/E82/E87/E88/F20/F21), 2 (F22), 3 (E90/E91/E92/E93/F30/F31/F34), 4 (F32/F33/F36), 5 (F07/F10/F11), X1 (E84), X3 (F25) and X5 (F15)
- in Mini series R55 / R56 / R57 / R58 / R59 / R60 / R61
- for locking the crankshaft
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Crankshaft Counter Holder	2285671	6122

for engine codes:
N47C16AU1, N47C16K1, N47C16U1, N47C20AK1, N47C20K1, N47C20U1, N47D16, N47D16C, N47D20A, N47D20C, N47D20C01, N47D20CK1, N47D20CO, N47D20CO1, N47D20CU1, N47D20D, N47D20DT1, N47D20U0, N47SD20BDT0, N47TD20O1

Crankshaft Pulley Holding Wrench, BMW

- in BMW 1-series (E81/E87), 3-series (E46/E90/E91), 5-series (E39/E60/E61) and X3 (E83)
- for counter holding crankshaft pulleys with vibration damper
- when changing pulleys and repairing the engine

suitable for the following OE pulleys:
11232247565, 11237787304, 11237790921, 11237793882, 11237801977, 11237805696

Item	OEM Comparison No.	Art. No.
Crankshaft Pulley Holding Wrench	116310 / 116311 / 116312	6124

for engine codes:
M47D20, N47D20A, N47D20C, 204D4

Sprocket Wheel Puller, high pressure pump, BMW

- to separate the chain sprocket from high pressure pump
- in BMW 1-series (E81/E82/E87/E88/F20), 3-series (E90/E91/E92/ E93/F30), 5-series (E60/E61/F10/F11), X1 (E84) and X3 (E83/F25)

Item	OEM Comparison No.	Art. No.
Sprocket Wheel Puller, high pressure pump	118740	61205

for engine codes:
N47, N47S

Injection Pump Tool, BMW

- to separate the chain sprocket from injection pump

Item	OEM Comparison No.	Art. No.
Injection Pump Tool	135190 / LRT12178	3517

for engine codes:
M47, M47TU, M57, M57TU

Timing Chain Control Pin, for BMW / Mini engines

- to check for wear (chain elongation) of the timing chain without dismantling the engine; this control should be carried out regularly at customer services
- in BMW 1-series (E81, E82, E87, E88, F20, F21), 2-series (F22, F87), 3-series (E90, E91, E92, E93, F30, F31, F34, F35, F80), 4-series (F32, F33, F36, F82, F83), 5-series (E60, E61, F07, F10, F11), X1 (E84), X3 (E83, F25) and X5 (F15, F85)
- in Mini Clubman, Clubvan, Countryman, Coupé, Mini, Paceman and Roadster

Item	OEM Comparison No.	Art. No.
Timing Chain Control Pin	2353281	6101

for engine codes:
N12, N13, N14, N16, N18, N47

Timing Chain Control Pin, for BMW / Mini engines

- to check for wear (chain elongation) of the timing chain without dismantling the engine; this control should be carried out regularly at customer services
- in BMW 1-series (E81, E82, E87, E88, F20, F21), 2-series (F22, F23), 3-series (E90, E91, E92, E93, F30, F31, F34), 4-series Cabriolet (F32, F33, F36) and Gran Coupe (F36) (14-), 5-series (E60, E61, F07, F10, F11), X1 (E84), X3 (F25), X4 (F26), X5 (F15) and Z4 (E89)
- in Mini Clubman, Clubvan, Countryman, Coupé, Mini, Paceman and Roadster

Item	OEM Comparison No.	Art. No.
Timing Chain Control Pin	83302411399 / 2411399	6102

for engine codes:
N20, N26, N43, N45, N46

Timing Tool Set, BMW / Mini

- for 1.6L BMW N13 and Mini N18 petrol engines
- in BMW 114i / 116i / 118i (F20) and 316i / 320i (F30)
- in Mini Cooper S and John Cooper Works GP
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Adjustment Tool	117440	*6116-01*
Chain Tensioner Adjustment Tool	119340 / 0197M	*6115-07*
Flywheel Locking Pin (automatic transmission)	2299362	*6116-03*
Crankshaft Locking Pin	0197BZ / 0197B2 / 119590	*6130-05*

Item	Art. No.
Timing Tool Set, BMW / Mini	36116

for engine codes:
N13, N18

for engine codes:
B36A15A, B38A12A, B38A15A, B38B15A, B38K15A, B46B20A, B46B20B, B48A20A, B48A20B, B48A20E, B48A20F, B48B16A, B48B20A, B48B20B, B58B30A, B58B30B, B58B30C

Timing Tool Set, BMW / Mini / Toyota

- for 1.2, 1.5, 1.6, 2.0 and 3.0 L petrol engines with 3, 4 and 6 cylinders
- in BMW series 1 (F20/21/40), 2 (F22/23/45/46), 3 (F30/31/34/80/G20/21), 4 (F32/33/36), 5 (G30/31), 6 Gran Turismo (G32), 7 (G11/12), i8 (i12/15), X1 (F48), X2 (F39), X3 (G01), X4 (G02), X5 (G05), X6 (G06), X7 (G07) and Z4 (G29)
- in Mini Clubman (F54), Hatch 5-door (F55), Hatch (F56), Convertible (F57) and Countryman (F60)
- in Toyota GR Supra
- for locking the camshafts and crankshaft
- for adjusting the camshaft phaser
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Aligning Tool	2358122 / 2456372	*6158-01*
Loosening Wrench for Camshaft Phaser	2360895	*6158-02*
Chain Tensioner Locking Tool	114120	*6158-03*
Socket Bit for cylinder head screws	118580	*6158-04*
Crankshaft Counter Holder	2357904	6108
Locking Tool Set	2288380 / 2365488	6107
Chain Tensioner Adjustment Tool	119340 / 0197M	*6115-07*
Specialist Socket	2450487 / 30316613	6123
Crankshaft Rotation Tool	116480	*6120-01*

Item	Art. No.
Timing Tool Set, BMW / Mini / Toyota	36158

for engine codes:
N12, N14, N16, 5FR, 5FW, 5FX, 8FP, 8FR, 8FS, EP3, EP3C, EP6, EP6C, EP6DT, EP6CDT, EP6DTE, EP6DTS

Timing Tool Set, Mini / PSA

- for engines from Mini, Citroen and Peugeot
- in Mini Clubman, Coupe, Roadster, Countryman and Pacemann
- in Citroen DS3/Cabrio, C3 II/Picasso, C4 I/Picasso/Grand Picasso, C3 III and C4 II
- in Peugeot 207/CC, 208, 308/CC, 3008 and 5008
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool, inlet	0197A / 119540	*6130-01*
Camshaft Locking Tool, inlet	0197A / 119550 / 119551	*6130-02*
Camshaft Locking Tool, outlet	0197A / 119540 / 119550 / 119551	*6130-03*
Locking Tool Holder	0197A / 119550 / 119552	*6130-04*
Crankshaft Locking Pin	0197BZ / 0197B2 / 119590	*6130-05*
Chain Tensioner Adjustment Tool	119340 / 0197M	*6115-07*

Item	Art. No.
Timing Tool Set, Mini / PSA EP-engines	36130

for engine codes:
W10B16AA, W10B16BA, W11B16AA

Timing Tool Set, Mini

- for BMW Mini petrol engines
- in Mini One, Mini Cooper, Mini Cabrio and Mini Cooper S
- for manufacturing years 2001 - 2006
- includes engine support
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	118250	*6199-01*
Engine Support, with 3 bolts	118370	*6199-02*
Timing Chain Tensioner	118240	*6199-03*

Item	Art. No.
Timing Tool Set, Mini petrol R50/52/53	6199

Timing Tool Set, Mini / PSA / Ford

- for 1.4 and 1.6L TDCi / HDi diesel engines from Mini, PSA and Ford
- also for identically constructed engines from Mazda, Suzuki, Toyota and Volvo
- in Mini and Mini Clubman (R55 / 56 / 57)
- in Citroen C1, C2, C3 / Picasso, C4 / Picasso / Grand Picasso, C5 II / III and Berlingo III
- in Peugeot 107, 206 / cc, 207 / cc, 307, 308 / cc, 1007, 3008, 5008 and Partner III
- in Ford B-Max, C-Max, Fiesta, Focus, Fusion, Mondeo, Tourneo Courier and Transit Courier
- in Mazda 2 and 3
- in Suzuki Liana and Liana Kombi
- in Toyota IQ, Aygo and Yaris
- in Volvo C30, S40, S80, V50 and V70
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	119850	6132
Camshaft Locking Tool	0189B / 0187B / MOT1430 / 21263 / 0194B / 9997122 / 0188M / 3031277 / 0132AJ1 / 303735 / 49JE02021 / 0991958120	*3521-25*
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*
Crankshaft Locking Pin	0194C / 21262 / 303734 / 119790 / 9997169 / 49JE02020	*6204-03*

Item	Art. No.
Timing Tool Set, Mini / PSA / Ford	36131

for engine codes:
W16D16, W16D16UO, DV4TD, DV4TED4, DV6TED4, DV6ATED4, 9HZ, 9HX, 9HY, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, GPDA, GPDB, GPDC, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MTDA, TZJB, UBJA, Y6, 8HY, 1KRFE, 2WZTV, 1NDTV, D4164T

Crankshaft Locking Tool, Mini

- for 1.6L diesel engines
- in Mini Clubmann, Cooper and One
- for locking the crankshaft when loosening the crankshaft pulley
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	119850	6132

for engine codes:
W16D16, W16D16U0

Central Valve Socket, CrMo, camshaft valve on phaser, BMW / Ford / Mini

- for operating the central screw connection on the camshaft valve of Vanos (BMW, Mini) and VCT (Ford)
- the applied screws are tension screws which require replacement
- news screws are supplied with this specialist groove profile, which supersedes the old hexagon screw
- extra short design for working in tight spaces in the engine compartment
- for timing chain replacement and engine repair

Item	Profile	Size	Drive	OEM Comparison No.	Length	Art. No.
Specialist Socket	groove profile with 16 points	22 mm	1/2"	2450487 / 30316613	30 mm	6123

for engine codes:
B36A15A, B38, B38A12A, B38A15A, B38B15A, B38K15A, B46, B46B20A, B48A20A, B48A20B, B48B16A, B48B20A, B48B20B, B58B30A, M1DA, M1DC, M1DD, M1DH, M2DA, M2DB, M2DC, SFDB

Alignment Tool for Crankshaft Pulley, Ford

- for 1.6L EcoBoost engines
- in Ford Focus, C-Max, Grand C-Max, Galaxy, Kuga, Mondeo and S-Max

Item	OEM Comparison No.	Art. No.
Crankshaft Pulley Alignment Tool	3031550 / 9997431	6206

for engine codes:
JQDA, JQDB, JTDA, JTDB, JTBA, JTBB, JTWA, JTWB, JQMA, JQMB, JTMA

Timing Tool Set, Ford / Mazda / Volvo

- for almost all modern Ford engines
- in Ford Cougar, Fiesta IV/V/VI, Focus I/II/III, Fusion, Galaxy, Ka, Ka+, Kuga, C-MAX, B-MAX, S-MAX, Maverick, Mondeo III/IV/V, Tourneo / Connect and Transit / Connect
- in Mazda 2, 3, 323, 5, 6, E-Series, MPV, MX-5, Premacy, Tribute and Xedos 9
- in Volvo C30, C70, S40, S60, S80, V40, V50, V60 and V70

Content	OEM Comparison No.	Art. No.
Camshaft Sprocket Puller	303651 / 21229	*6205-10*
Crankshaft Pulley Alignment Tool	3031550 / 9997431	6206
Tensioner Pulley Locking Pin	3031054	*6205-02*
Crankshaft Locking Pin	0194C / 21262 / 303734 / 119790 / 9997169 / 49JE02020	*6204-03*
Locking Pin	310033 / 23029	*6205-14*
Crankshaft Locking Pin	303735 / 21263 / 9997122 / 49JE02021	*6205-12*
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*
Crankshaft Locking Pin	303574 / 21163 / 9997201 / 303620	*3514-01*
Crankshaft Locking Pin	21259 / 303748 / 49JE02061 / 9997496 / 9997201 / 9997406	*3514-02*
Crankshaft Locking Pin	303507 / 21210 / 9997152	*3514-03*
Camshaft Rule	303376B / 303465 / 21162 / 9997151 / 49UN303465 / 0991958310 / KM953	*3514-04*
Crankshaft Locking Pin	303193 / 21104 / 49JE01050	*6205-04*
Crankshaft Locking Pin	3031059 / 3031270 / 0188X / 9997121	*6205-03*
Camshaft Locking Tool	3031097 / 9997429	*6205-05*
Locking Pin	310018 / 23019 / 49JE01063	*6205-16*
Crankshaft Locking Tool	303393 (-A -1 -2 -3) / 3031602 / 21168 / 9997119, 3031272	36200

Item	Art. No.
Timing Tool Set, Ford / Mazda / Volvo	36205

accessory

Item	Art. No.
Camshaft Locking Tool for Ford and Volvo	6208

Camshaft Locking Tool for Ford and Volvo

- for 1.2 L, 1.5 L and 1.6 L EcoBoost / VCT / SCTi / GTDi petrol engines
- in Ford B-MAX, C-MAX, EcoSport, Fiesta, Focus, Galaxy, Grand C-MAX, Grand Tourneo Connect, KA+, Kuga, Mondeo, S-MAX, Tourneo Connect and Transit Connect
- in Volvo S60, S80, V40, V60 and V70
- to remove the variable valve timing pulleys
- for timing belt replacement or engine repair

for engine codes:
B2KA, B4164T, B4164T2, B4164T3, B4164T4, HXDA, HXDB, HXJA, HXJB, HXJE, IQDA, IQDB, IQJA, IQJC, IQJE, JQDA, JQDB, JQGA, JQMA, JQMB, JTBA, JTBB, JTDA, JTDB, JTJA, JTJB, JTJC, JTMA, JTWA, JTWB, KGBA, M8DA, M8DB, M8DD, M8DE, M8DF, M8MA, M8MB, M8MC, M8MD, M8ME, M9DA, M9DB, M9MA, M9MB, M9MC, M9MD, M9ME, MUDA, MUDD, PNBA, PNDA, PNDD, RHBX, RVJA, SIDA, U5JA, UEJB, UEJE, UNCA, UNCB, UNCC, UNCD, UNCE, UNCF, UNCJ, UNCK, UNCM, UNCN, UNCP, XTDA, XTDB, YSKD, YSKE

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	3031552 / 9997430	6208

Timing Tool Set, Ford / Mazda / Volvo

- for 1.25, 1.4, 1.6, 1.8, 2.0 and 2.3 L with timing belt or chain
- in Ford Cougar, Fiesta IV/V/VI, Focus I/II/III, Fusion, Galaxy, Ka, Kuga, C-MAX, B-MAX, S-MAX, Maverick, Mondeo III/IV/V, Tourneo Connect and Transit /Connect
- in Mazda 121, 3, 323, 5, 6, MPV, MX-5, Primacy and Tribute
- in Volvo C30, S40, S60, S80, V40, V50, V60 and V70

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	3031097 / 9997429	*6205-05*
Crankshaft Locking Pin	3031059 / 3031270 / 0188X / 9997121	*6205-03*
Tensioner Pulley Locking Pin	3031054	*6205-02*
Crankshaft Pulley Alignment Tool	3031550 / 9997431	6206
Crankshaft Locking Pin	21259 / 303748 / 49JE02061 / 9997496 / 9997201 / 9997406	*3514-02*
Crankshaft Locking Pin	0194C / 21262 / 303734 / 119790 / 9997169 / 49JE02020	*6204-03*
Camshaft Rule	303376B / 303465 / 21162 / 9997151 / 49UN303465 / 0991958310 / KM953	*3514-04*
Crankshaft Locking Pin	303574 / 21163 / 9997201 / 303620	*3514-01*
Crankshaft Locking Pin	303507 / 21210 / 9997152	*3514-03*

Item	Art. No.
Timing Tool Set, Ford / Mazda / Volvo	36207SP

accessory

Item	Art. No.
Camshaft Locking Tool for Ford and Volvo	6208
Crankshaft Locking Tool, Ford petrol/diesel	36200

for engine codes:
ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, ASDA, ASDB, B2KA, B4164S2, B4164S3, B4164T, B4164T2, B4164T3, B4164T4, BNMA, BNMB, BNMC, CDRA, CDRB, CGBA, CGBB, CJBA, CJBB, CSDA, CSDB, DHA, DHB, DHC, DHD, DHE, DHF, DHG, E5FA, E5FC, E5SA, E5SB, EDDB, EDDC, EDDD, EDDF, ENUE, EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FHA, FHD, FHE, FHF, FUJA, FUJB, FXDA, FXDB, FXDC, FXDD, FXJA, FXJB, FXJC, FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, FYJC, G6DA, G6DB, G6DC, GZFA, GZFB, GZFC, HMDA, HWDA, HWDB, HXDA, HXDB, HXJA, HXJB, HXJE, IQDA, IQDB, IQDC, IQJA, IQJBIQJC, IQJE, JQDA, JQDB, JQGA, JQMA, JQMB, JTBA, JTBB, JTDA, JTDB, JTJA, JTJB, JTJC, JTMA, JTWA, JTWB, KGBA, KL, L1T, L1V, L1W, L3, L5, L8, LF, M7JA, M7JB, M8DA, M8DB, M8DD, M8DE, M8DF, M8MA, M8MB, M8MC, M8MD, M9DA, M9DB, M9DG, M9DH, M9MA, M9MB, M9MC, M9MD, M9ME, MUDA, MUDD, MZR, N4JB, PNBA, PNDA, PNDD, Q7DA, QQDA, QQDB, QQDC, RHBA, RTJA, RTJB, RTJC, RVJA, SEBA, SEWA, SHDA, SHDB, SHDC, SIDA, SNJA, SNJB, SNJC, SNJD, SPJA, SPJC, SPJD, SPJE, STJA, STJB, STJC, SYDA, TBBA, TBBB, TBWA, TBWB, TNBA, U5JA, UEJB, UEJE, UNCA, UNCB, UNCC, UNCD, UNCE, UNCF, UNCI, UNCJ, UNCK, UNCM, UNCN, UNCP, UTJA, UYJA, XTDA, XTDB, YSKD, YSKE, ZVSA

Timing Tool Set, Ford / Volvo

- for 1.5 and 1.6 L SCTi/Ti-VCT Ecoboost and 2.0 L TDCi engines
- in Ford B-MAX, C-MAX, Fiesta, Focus, Galaxy, Grand C-MAX, Mondeo and S-MAX
- in Volvo S60, S80, V40, V60 and V70
- for locking the camshaft and crankshaft
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	3031097 / 9997429	*6205-05*
Crankshaft Locking Pin	3031059 / 3031270 / 0188X / 9997121	*6205-03*
Tensioner Pulley Locking Pin	3031054	*6205-02*
Crankshaft Pulley Alignment Tool	3031550 / 9997431	6206
Crankshaft Locking Pin	21259 / 303748 / 49JE02061 / 9997496 / 9997201 / 9997406	*3514-02*
Crankshaft Locking Pin	0194C / 21262 / 303734 / 119790 / 9997169 / 49JE02020	*6204-03*

Item	Art. No.
Timing Tool Set, Ford / Volvo	36207

accessory

Item	Art. No.
Camshaft Locking Tool for Ford and Volvo	6208
Crankshaft Locking Tool, Ford petrol/diesel	36200

for engine codes:
B4164T, B4164T2, B4164T3, B4164T4, BNMA, BNMB, BNMC, G6DA, G6DB, G6DC, HXDA, IQDA, IQDB, IQJA, IQJB, IQJC, IQJE, JQDA, JQDB, JQGA, JQMA, JQMB, JTBA, JTBB, JTDA, JTDB, JTJA, JTJB, JTJC, JTMA, JTWA, JTWB, M8DA, M8DB, M8DD, M8DE, M8DF, M8MA, M8MB, M8MC, M8MD, M9DA, M9DB, M9DG, M9DH, M9MA, M9MB, M9MC, M9MD, M9ME, UNCA, UNCB, UNCC, UNCD, UNCE, UNCF, UNCI, UNCJ, UNCK, UNCM, UNCN, UNCP

Timing Tool Set, Ford

- for petrol engines with timing belt or chain
- in Ford Escort, Fiesta, Focus, C-Max, Fusion, Mondeo, Orion, Tourneo and Transit with 1.25 16V, 1.4 16V, 1.6 16V, 1.7 16V,1.8 16V, 2.0 16V, 2.0 RS/ST170
- in Volvo S40 and V5 with engine code B4164S3
- in Mazda 121, 2, 3, 6 and Tribute with 1.25 up to 2.3 L 16V petrol engines

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Pin	303574 / 21163 / 9997201 / 303620	*3514-01*
Crankshaft Locking Pin	21259 / 303748 / 49JE02061 / 9997496 / 9997201 / 9997406	*3514-02*
Crankshaft Locking Pin	303507 / 21210 / 9997152	*3514-03*
Camshaft Rule	303376B / 303465 / 21162 / 9997151 / 49UN303465 / 0991958310 / KM953	*3514-04*

Item	Art. No.
Timing Tool Set, Ford	3514

Timing Tool Set, Ford

- for 2.0L and 2.3 L SCTI Ecoboost, SCTi-VCT and EcoBoost-RS petrol engines
- in Ford Galaxy, Kuga, Mondeo, S-Max and Focus (III and IV)
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool (until May 2011)	3031504	*6221-01*
Camshaft Locking Tool (from May 2011)	3031565	*6221-02*
Crank Angle Sensor Adjustment Tool	3031521	*6221-03*
Crankshaft Locking Pin	21259 / 303748 / 49JE02061 / 9997496 / 9997201 / 9997406	*3514-02*
Locking Belt Tensioner, 2.0 mm		*6221-04*

Item	Art. No.
Timing Tool Set, Ford	36221

for engine codes:
MGDA, N3DA, R9CB, R9CD, R9CF, R9CH, R9CI, R9DA, R9DB, R9DC, R9DD, R9MA, R9MC, TNBA, TNBB, TNCC, TNCD, TNCF, TNWA, TNWB, TPBA, TPWA, XQDA, YVDA

Torque Multiplier, Ford

- for 1.0 and 1.1 L EcoBoost and Duratec Engines
- in Ford B-MAX, C-MAX, Connect, EcoSport, Fiesta, Focus, Grand C-MAX, Grand Tourneo, Mondeo, Tourneo Connect, Transit Connect and Transit Courier
- gear ratio: 1:5
- for loosening and tightening the crankshaft pulley
- to replace the front crankshaft seal
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Torque Multiplier 1:5	3031611	*6211-01*
Special Holding Adapter	303161101	*6211-02*
Adapter Holding Plate	303161101	*6211-03*
Impact Socket, 3/4", hexagon 21 mm	30316112	*6211-04*
Impact Socket, 3/4", hexagon 24 mm	30316111	*6211-05*

Item	Art. No.
Torque Multiplier, Ford	36211

accessory

Item	Art. No.
Timing Tool Set, Ford	36210

for engine codes:
M1CA, M1CB, M1DA, M1DC, M1DD, M1DH, M1JA, M1JC, M1JE, M1JH, M1JJ, M1JL, M1JM, M1JP, M1JU, M2DA, M2DB, M2DC, M2GA, M2GB, P4JA, P4JB, P4JC, P4JD, QOJA, QOJC, SFCA, SFCB, SFCC, SFCD, SFDA, SFDB, SFJA, SFJB, SFJC, SFJD, SFJE, SFJH, SFJJ, SFJK, SFJL, SFJN, SFJP, XMJA, XMJB, XMJC, XMJD, YYJA, YYJB, YYJC, YYJD, YYJE, YYJF, YYJG, XPJA, XPJB, XPJC, XPJD, XYJA, XYJB, XYJC, XYJD, XYJE

Timing Tool Set, Ford

- for 1.0 and 1.1 L GTDi Ecoboost 3-cylinder petrol engines
- in Ford B-MAX, C-MAX, Connect, EcoSport, Fiesta, Focus, Grand C-MAX, Grand Tourneo, Mondeo, Tourneo Connect, Transit Connect and Transit Courier
- for locking the camshafts and crankshaft
- for adjusting the cam phaser
- for replacing the front crankshaft seal
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Cam Phaser Timing Tool	3031606	*6210-01*
Crankshaft Seal Installer	3031603	*6210-02*
Camshaft Locking Tool, inlet	3031605 / 30316051	*6210-03*
Camshaft Locking Tool, outlet	3031605 / 30316052	*6210-04*
Locking Screws		*6210-05*
Crankshaft Locking Bolt	3031604	*6210-06*
Tensioner Pulley Locking Pin	3031054	*6205-02*
Locking Pin, 5 mm	303-732	*6210-07*
Locking Pin, 4 mm		*6210-08*
Adapter for Crankshaft Seal Installer	3031636 / 30316361 / 30316362 / 30316363	*6210-09*

Item	Art. No.
Timing Tool Set, Ford	36210

accessory

Item	Art. No.
Torque Multiplier, Ford	36211

for engine codes:
M1CA, M1CB, M1DA, M1DC, M1DD, M1DH, M1JA, M1JC, M1JE, M1JH, M1JJ, M1JL, M1JM, M1JP, M1JU, M2DA, M2DB, M2DC, M2GA, M2GB, P4JA, P4JB, P4JC, P4JD, QOJA, QOJC, SFCA, SFCB, SFCC, SFCD, SFDA, SFDB, SFJA, SFJB, SFJC, SFJD, SFJE, SFJH, SFJJ, SFJK, SFJL, SFJN, SFJP, XMJA, XMJB, XMJC, XMJD, YYJA, YYJB, YYJC, YYJD, YYJE, YYJF, YYJG, XPJA, XPJB, XPJC, XPJD, XYJA, XYJB, XYJC, XYJD, XYJE

Timing Tool Set, Ford

- for 1.0 Ecoboost II (FOX) 3-cylinder petrol engines from 2018
- in C-MAX, Fiesta, Focus, Focus Active, Grand C-MAX, Puma, Tourneo and Transit Connect
- for locking the camshafts and crankshaft
- for adjusting the cam phaser
- for replacing the front crankshaft seal
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	3031643	*6220-11*
Locking Pin	310018 / 23019 / 49JE01063	*6205-16*
Specialist Socket	2450487 / 30316613	6123
Camshaft Locking Tool, exhaust	30316611	*36213-04*
Crankshaft Seal Installer	3031603	*6210-02*
Camshaft Locking Tool, inlet	30316612	*36213-06*
Tensioner Locking Pin	KM6130 / EN9552	*6300-09*
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*
Crankshaft Locking Bolt	3031604	*6210-06*

Item	Art. No.
Timing Tool Set, Ford	36213

accessory

Item	Art. No.
Torque Multiplier, Ford	36211

for engine codes:
B3DA, B7DA, B7JA, B7JB, B7JC, B7JE, BZJA, B7DC, M0DC, M0JA, M0JB, B3GA, B3GB

Timing Tool Set, Ford

- for 1.2 and 1.5L Dragon Ecoboost 3-cylinder petrol engines
- in Ford Ecosport II, Focus IV, KA+, KA+ Active and Kuga III
- for locking the camshafts and crankshaft
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	3031639	*36215-01*
Crankshaft Locking Tool	3031643	*6220-11*

Item	Art. No.
Timing Tool Set, Ford	36215

for engine codes:
B1KE, BIKE, C12FDOS, C15FDOS, ENAP, ENB1, ENBI, XZJF

Timing Tool Set, Ford

- for 2.0 L EcoBlue TDCI 4-cylinder diesel engines
- in Ford Edge, Focus IV, Galaxy III, Kuga III, Mondeo V, Ranger (T6), S-Max II, Tourneo Custom, Transit VII and Transit Custom
- for locking the camshafts and crankshaft
- for aligning the camshaft phaser
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Timing Tool	3031650	*6220-10*
Crankshaft Locking Tool	3031643	*6220-11*
Crankshaft Timing Tool	3031637	*6220-12*
Locking Pins 6 mm		*6220-13*

Item	Art. No.
Timing Tool Set, Ford	36220

for engine codes:
BC2X, BCCA, BCCB, BCCC, BCCD, BCDA, BCFA, BCFB, BCRA, BJFA, BJFB, BJFC, BJFD, BJRA, BJRB, BKFA, BKFB, BKFC, BKFD, BKRA, BKRB, BLFA, BLFB, BLFC, BLFD, BLHA, BLRA, BLRB, YL2X, YLCA, YLCB, YLCC, YLDA, YLDC, YLF6, YLFA, YLFB, YLFS, YLR6, YLRA, YMCA, YMCB, YMCC, YMDA, YMF6, YMFA, YMFB, YMFS, YMHA, YMR6, YMRA, YN2X, YNCA, YNF6, YNFA, YNFB, YNFS, YNR6, YNRA

Timing Tool Set, Ford

- for 1.5L Dragon Ecoboost 3-cylinder petrol engines
- in Ford Fiesta from 2018, Focus from 2018, Focus ST from 2019, Kuga from 2019 and Puma from 2020
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	3031649	*36214-01*
Crankshaft seal installer	3031645	*36214-02*
Crankshaft Locking Tool	3031643	*6220-11*

Item	Art. No.
Timing Tool Set, Ford	36214

for engine codes:
UNDA, Y1DA, Y2DA, YZDA, YZDB, YZJA

Puller for Vibration Damper Pulley with Internal Thread, Ford

- for 2.0 L EcoBlue diesel engines from 2018 onwards
- in Ford Kuga (DFK), Ranger (TKE), Tourneo Custom (362) and Transit (362/363)
- in VW Amarok II
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Puller for Vibration Damper Pulley	3031657, 30316571, 30316572	6229

for engine codes:
BC2X, BCFB, BCRA, BJFA, BJFB, BJRA, BKFA, BKFB, BKRA, BLFA, BLFB, BLHA, BLRA, DXKB, DXKD, YLFA, YLFB, YLRA, YMFA, YMFB, YMHA, YMRA, YN2X, YNFA, YNFB, YNRA

Timing Tool Set, Ford

- for 2.0, 2.2 and 2.4 L 16V diesel engines with timing belt or timing chain
- in Ford Focus, Mondeo and Transit
- in Jaguar X-Type
- for locking the camshaft, crankshaft and belt tensioner
- for disassembly / assembly of the injection pump
- for timing belt / chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Injection Pump Rotation Plate	303679A	*6224-01*
Belt Tensioner Locking Tool		*6224-02*
Injection Pump Locking Tool	3031151	*6224-03*
Locking Pins, 9 mm	303681	*6224-04*
Crankshaft Locking Pin	303675 / 21234	*6224-05*
Crankshaft Locking Pin	303698 / 21251	*6224-06*
Locking Pins, 6 mm	303732 / 21260 / 49JE02018	*6224-07*

Item	Art. No.
Timing Tool Set, Ford 2.0/2.2/2.4 16V diesel	36224

for engine codes:
ABFA, D2FA, D2FB, D3FA, D4FA, D5BA, D6BA, F3FA, F4FA, FIFA, FMBA, FMBB, FXFA, H9FA, H9FB, H9FD, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB, PHFA, PHFC, QJBA, QJBB, QJBC, QJBD

Timing Tool Set, Ford

- also suitable for identically constructed engines from Citroen, Fiat and Peugeot
- for 2.2L TDCi diesel engines with timing chain
- in Ford Transit and Ranger built from 2006 onwards
- for locking the crankshaft and flywheel
- for adjusting the TDC sensor position after working on the timing chain

Content	OEM Comparison No.	Art. No.
Pump Locking Pins	0188H / 1860965000	*6222-01*
Flywheel Locking Pin	303698 / 21251	*6222-02*
Crankshaft Locking Tool	3031587	*6222-03*

Item	Art. No.
Timing Tool Set, Ford	36222

for engine codes:
CVF5, CVFF, CVR5, CYF4, CYF5, CYFA, CYFB, CYFC, CYFF, CYFG, CYR5, DRF4, DRF5, DRFA, DRFB, DRFC, DRFE, DRFF, DRFG, DRR5, DT224, GBVAJPF, GBVAJQJ, GBVAJQW, ID4, P8FA, P8FB, PGFA, PGFB, QVFA, QWFA, SA2R, SA2S, SA2W, SAFA, SAFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHFB, UHR5, USR6, UYR6

Timing Tool Set, Ford / PSA

- also for identically constructed engines from Mazda, Suzuki, Toyota and Volvo
- for Ford and PSA 1.4, 1.5 and 1.6L TDCi / HDi diesel engines
- in Ford B-Max, C-Max, EcoSport, Fiesta, Focus, Fusion, Mondeo, Tourneo Courier/Connect and Transit Courier/Connect
- in Citroen C1, C2, C3, C4, C5, Berlingo, Nemo and Xsara
- in DS Automobiles DS3, DS4 and DS5
- in Peugeot 107, 206, 207, 208, 301, 307, 308, 407, 508, 1007, 2008, 3008, 4008 and 5008
- in Mazda 2 and 3
- in Suzuki Liana and Liana Kombi
- in Toyota IQ, Aygo and Yaris
- in Volvo C30, S40, S80, V50 and V70
- for timing belt replacement or engine repair

for engine codes:
F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, GPDA, GPDB, GPDC, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MTDA, TZJB, UBJA, DV4TD, DV4TED4, DV6TED4, DV6ATED4, Y6, 8HY, 1KRFE, 2WZTV, 1NDTV, D4164T

Content	OEM Comparison No.	Art. No.
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*
Camshaft Locking Tool	0189B / 0187B / MOT1430 / 21263 / 0194B / 9997122 / 0188M / 3031277 / 0132AJ1 / 303735 / 49JE02021 / 0991958120	*3521-25*
Crankshaft Locking Pin	0194C / 21262 / 303734 / 119790 / 9997169 / 49JE02020	*6204-03*

Item	Art. No.
Timing Tool Set, Ford / PSA	6204

Crankshaft Locking Tool, Ford

- for petrol and diesel engines
- for locking the crankshaft with the starter ring gear

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	303393 (-A -1 -2 -3) / 3031602 / 21168 / 9997119, 3031272	36200

Crankshaft Seal Ring Assembly Tool, Ford

- also suitable for identically constructed engines from Fiat and PSA
- for 2.0, 2.2, 2.4 and 3.2L TDCi and TDDi Duratorq diesel engines
- in Ford Transit, Mondeo and Ranger
- for aligning the chain housing
- for disassembly / assembly of the crankshaft seal ring

for engine codes:
ABFA, CVF5, CVFF, CVR5, CVRA, CVRB, CYF4, CYF5, CYFA, CYFB, CYFC, CYFF, CYFG, CYR5, CYRA, CYRB, D2FA, D2FB, D3FA, D4FA, D5BA, D6BA, DOFA, DRF4, DRF5, DRFA, DRFB, DRFC, DRFE, DRFF, DRFG, DRR5, DRRA, DRRB, F3FA, F4FA, FIFA, FMBA, FMBB, FXFA, GBVAJQF, GBVAJQJ, GBVAJQW, H9FA, H9FB, H9FD, HJBA, HJBB, HJBC, JXFA, JXFC, N7BA, N7BB, P8FA, P8FB, PGFA, PGFB, PHFA, PHFC, QJBA, QJBB, QJBC, QJBD, QVFA, QWFA, SA2R, SA2S, SA2W, SAFA, SAFB, SDBA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHFB, UHR5, USF6, USR6, USRA, USRB, UYR6

for crankshaft oil seal as OEM: 0514C6, 1557881, 1801837, 1920072, 3S7Q6700AB, 3S7Q6700AC, 3S7Q6700AD, 9659901780, JD61105, JD61283, JDE11793, LR029318, LR045106, LR077704, U20210602, U20210602A

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Cap	303682 / 0198G	*6228-01*
Turning Plate for Injection Pump	303679 / 303679A / 0198D	*6228-02*

Item	pcs	Art. No.
Crankshaft Seal Ring Assembly Tool, Ford	2	6228

Crankshaft Pulley Holding Wrench, Ford

- for 2.0, 2.2, 2.4 and 3.2L Di / TDDI / TDCi Duratorq diesel engines and 2.3L Duratec petrol engines
- in Ford Mondeo and Transit
- special head design with large borehole to insert a deep socket
- for counter holding when loosening the crankshaft pulley

Item	OEM Comparison No.	Art. No.
Crankshaft Counter Holder	303-1310	6203

for engine codes:
FXFA, H9FA, H9FB, JXFA, P8FA, PHFA, QVFA, QWFA, SAFA

Crankshaft Holding Tool, Ford / Volvo

- for holding the crankshaft while loosening the centre pulley nut
- for Ford 2.5L Duratec petrol engines, e.g. Focus, Galaxy, Kuga, Mondeo and S-Max
- for Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8 and 2.9L 4- and 5-cylinder petrol engines, also 2.0 and 2.4L 5-cylinder diesel engines, e.g. C30, C70, S40, S60, S70, S80, V40, V50, V70, XC70 and XC90

Item	OEM Comparison No.	Art. No.
Crankshaft Holding Tool	3031179 / 9995433	6202

for engine codes:
HUBA, HUWA, HYDA, HYDB, JZDA, LCBD, B4164, B4184, B4194, B4204, B5204, B5234, B5244, B5254, B6284, B6294, B6304, D5204, D5244

Timing Tool Set, Volvo

- for 2.0 L diesel engines with 4 cylinders
- in Volvo S60 II, S80 II, S90 II, V40, V60 I/II, V70 III, V90 II, XC40, XC60 I/II, XC70 II and XC90 II
- for locking the crankshaft and high-pressure pump
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Tool, 2-pcs.	9997495	*6242-01*
High-Pressure Pump Locking Pin	9997233	*6242-02*
Impact Socket Bit	1159079	*6242-03*

Item	Art. No.
Timing Tool Set, Volvo	36242

for engine codes:
D4204T4, D4204T5, D4204T6, D4204T7, D4204T8, D4204T9, D4204T11, D4204T12, D4204T13, D4204T14, D4204T16, D4204T20, D4204T23

Timing Tool Set, Jaguar / Land Rover

- for 2.0 JLR Ingenium diesel engines
- in Jaguar E-Pace, F-Pace, XE and XF Land Rover Discovery, Discovery Sport, Range Rover Evoque, Range Rover Sport and Range Rover Velar
- for locking the camshafts, crankshaft and injection pump
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	JLR3031625	*36950-01*
Injection Pump Locking Tool	JLR3031627	*36950-02*
Crankshaft Locking Tool	JLR3031630	*36950-03*
Holding Tool	JLR3031631	*36950-04*

Item	Art. No.
Timing Tool Set, Jaguar / Land Rover	36950

for engine codes:
AJ200, AJ200D, AJ204DT, AJ204DTA, AJ204DTD

Timing Tool Set, Opel

- universal assortment for petrol and diesel engines from Opel
- also for identically constructed engines from Alfa, Fiat, Lancia, Saab, Suzuki and Chevrolet
- for almost all models from Opel
- for timing belt / chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	EN46788 / 32023009 / 0991237910 / 1860771000 / 1860905000 / 1860905010 / 2000003000 / 2192543000	*6300-07*
Camshaft Rule	303376B / 303465 / 21162 / 9997151 / 49UN303465 / 0991958310 / KM953	*3514-04*
Camshaft Rule	KM6628A / EM6628A / 2000012000	*6316-01*
Tensioning Tool	KM933 / 8395394	*6300-04*
Camshaft Locking Tool	KM932 / 8395386	*6300-11*
Flywheel Locking Tool	0991417930 / 1820007000 / 1820228000 / 1820240000 / 1820240000 / 1820630000 / 1860898000	*3526-15*
Camshaft Locking Pins	EN46781 / 1860985000 / 1871000900 / 3031472 / 0991768610 / 0104A	*6300-10*
Flywheel Locking Tool	KM911 / EM911	*6300-12*
Crankshaft Locking Tool	KM6625 / EM6625 / 2000012800	*6316-02*
Camshaft Sensor Locking Tool	KM954 / EM954 / 0991908310	*6300-01*
Camshaft Sprocket Locking Tool	KM6340 / EM6340 / 2000012100	*6316-04*
Tensioner Locking Pin	KM6333 / EM6333	*6316-05*
Tensioner Locking Pin	KM955 / EM955 / 0991958320	*6300-08*
Locking Pin	KM6349 / EN6349	*6316-06*
Tensioner Locking Pin	KM6130 / EN9552	*6300-09*
Injection Pump Locking Pin	KM927 / 8395337	*6300-16*
Camshaft Locking Pins	EN46789 / 1870896900 / 1870986900 / 0991768620 / 32025008	*6300-06*
Crankshaft Locking Pin	KM929 / 8395352	*6300-15*
Crankshaft Locking Pin	KM952 / EM952 / 0991238310	*6300-14*
Crankshaft Locking Pin	EN46785 / 0991238300	*6300-05*
Hex Screw, M8x20		*6300-17*

Item	Art. No.
Timing Tool Set, Opel	36300

for engine codes:
A16FDH, A16FDL, A20DT, A20DTC, A20DTH, A20DTJ, A20DTL, A20DTR, A20FD, D19AA, D20AA, DT, DTH, LBQ, LBR, LBS, LBX, LBY, LCD, LHZ, X10XE, X12XE, X20DTH, X20DTL, X22DTH, Y20DTL, Y22DTH, Y22DTR, Z10XE, Z10XEP, Z12XE, Z12XEP, Z13DT, Z13DTH, Z13DTJ, Z14XEL, Z14XEP, Z19DT, Z19DTH, Z19DTJ, Z19DTL, 182B9000, 188A7000, 188B2000, 192A1000, 192A3000, 192A5000, 192A8000, 192A9000, 192B1000, 192B4000, 192B5000, 198A2000, 198A3000, 198A5000, 198A6000, 199A5000, 199B5000, 223A7000, 223B1000, 250A1000, 263A1000, 263A3000, 263A4000, 263A5000, 350A2000, 350A3000, 841G001, 841H001, 841M001, 841N001, 841P001, 844A2000, 844A3000, 937A2000, 937A3000, 937A4000, 937A5000, 937A6000, 939A1000, 939A2000, 939A3000, 939A7000, 939B3000, 939B4000, 940A3000, 940A4000, 940A5000, 940A7000, 940A8000, 944A3000, 955A3000, 955A4000

Timing Tool Set, Opel

- for 1.0, 1.2 and 1.4 L twin camshaft petrol engines with turbo charger
- in Opel Adam, Ampera, Astra J, Agila-B, Cascada, Combo, Corsa D + E, GTC, Insignia, Meriva B, Mokka and Zafira Tourer
- in Chevrolet Aveo, Cruze, Orlando, Sonic, Trax and Volt
- for locking the crankshaft and camshafts
- for adjusting the camshaft sensor
- for locking the tensioner
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Sensor Timing Tool	EN49977100	*6308-01*
Inlet Camshaft Timing Tool	EN49977200	*6308-02*
Camshaft Locking Tool	KM953A	*6308-03*
Crankshaft Locking Pin	KM952 / EM952 / 0991238310	*6300-14*
Tensioner Locking Pin 2.5 mm	EN95510 / KM955A1 / KM95510	*6308-05*
Tensioner Locking Pin 4.0 mm	EN95520 / KM955A2 / KM95520	*6308-06*
Camshaft Sensor Locking Tool	EN49978	*6308-07*

Item	Art. No.
Timing Tool Set, Opel	36308

for engine codes:
A10XEP, A12XEL, A12XER, A14NEL, A14NET, A14XEL, A14XER, A14XFL, B12XEL, B14NEH, B14NEJ, B14NEL, B14NET, B14XEJ, B14XEL, B14XER, L2I, L2Q, L2Z, LDC, LDD, LUH, LUJ, LUU, LUV, LWD

Timing Tool Set, Opel

- also suitable for identically constructed engines from Suzuki
- for 1.0 12V, 1.2 16V and 1.4 16V twin camshaft petrol engines
- in Opel Agila, Astra G / H, Corsa B / C / D, Combo C, Meriva and Tigra B
- in Suzuki Wagon R+
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Sensor Locking Tool	KM954 / EM954 / 0991908310	*6300-01*
Camshaft Rule	303376B / 303465 / 21162 / 9997151 / 49UN303465 / 0991958310 / KM953	*3514-04*
Crankshaft Locking Pin	KM952 / EM952 / 0991238310	*6300-14*
Tensioner Locking Pin	KM955 / EM955 / 0991958320	*6300-08*
Tensioner Locking Pin	KM6130 / EN9552	*6300-09*

Item	Art. No.
Timing Tool Set, Opel	36307

for engine codes:
X10XE, X12XE, Z10XE, Z10XEP, Z12XE, Z12XEP, Z14XE, Z14XEL, Z14XEP

Timing Tool Set, Opel

- for 1.0, 1.4 and 1.5 L twin camshaft petrol engines with turbo charger
- in Opel Adam, Adam Rocks, Astra K, Corsa E, Insignia B, Karl, Karl Rocks, Mokka X, Viva and Viva Rocks
- for locking the camshafts
- for locking the balance shaft
- for counter-holding and pulling off the crankshaft pulley
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Balance Shaft Locking Tool	EN51298	*6310-01*
Camshaft Adjustment Tool	EN51367	*6310-02*
Camshaft Adjustment Tool	EN51632	*6310-03*
Holder Crankshaft Pulley	EN442261	*6310-04*
Crankshaft Pulley Puller (2-pcs.)	EN442262	*6310-05*
Thread Protection Crankshaft Screw Connection	EN442265	*6310-06*

Item	Art. No.
Timing Tool Set, Opel	36310

for engine codes:
B10XE, B10XFL, B10XFT, B10XHL, B10XL, B14XE, B14XFL, B14XFT, B14XNT, B15XHT, D10XE, D10XFL, D10XFT, D14XFL, D14XFT, D14XNT, D15XHL, D15XHT, L5Q, LE1, LE2, LFE, LFV, LV7, LWT

Timing Tool Set, Opel

- for 1.6L SIDI petrol engines with double camshaft and turbocharger
- in Opel Astra-J, Astra-K, Cascada, GTC, Insignia, Insignia-B and Zafira-C Tourer
- for locking the camshaft and balancer shaft
- for counterholding the crankshaft pulley
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Adjustment Tool	EN51148	*36317-01*
Crankshaft Counter Holder	EN51147	*36317-02*
Tensioner Locking Pin (2 pcs.)	EN50513	*36317-03*
Balance Shaft Locking Tool (2 pcs.)	EN51153	*36317-04*

Item	Art. No.
Timing Tool Set, Opel	36317

for engine codes:
A16SHT, A16XHT, B16SHL, B16SHT, B16XHT, D16SHJ, D16SHL, LVP, LWC

Timing Tool Set, Opel / Fiat

- also for identically constructed engines from Alfa Romeo, Chevrolet and Saab
- for 1.6 and 1.8 L 16V petrol engines
- in Opel Astra G / H / J, Corsa D, Insignia, Meriva A, Signum, Vectra C and Zafira B
- in Fiat Chroma, Alfa Romeo 159 and Saab 9-5
- in Chevrolet Aveo, Cruse, Orlando and Trax
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Flywheel Locking Tool	KM911 / EM911	*6300-12*
Tensioner Locking Pin	KM6333 / EM6333	*6316-05*
Camshaft Rule	KM6628A / EM6628A / 2000012000	*6316-01*
Camshaft Sprocket Locking Tool	KM6340 / EM6340 / 2000012100	*6316-04*
Crankshaft Locking Tool	KM6625 / EM6625 / 2000012800	*6316-02*
Locking Pin	KM6349 / EN6349	*6316-06*

Item	Art. No.
Timing Tool Set, Opel / Fiat	36316

for engine codes:
2HO, 939A4000, A16LEL, A16LET, A16XER, A16XNT, A18XEL, A18XER, B16LER, B16XER, F16D3, F16D4, F18D4, G14D, LDE, LED, LLU, LUW, LXV, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER, Z16XNT, Z18XER

Timing Tool Set, Opel / Saab / Chevrolet

- for 2.0 and 2.4 L twin camshaft petrol engines with turbo charger
- in Opel Antara, Astra J, GTC and Insignia A
- in Saab 9-3 and 9-5
- in Chevrolet Captiva, HHU and Malibu
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Flywheel Locking Tool	EN43653	*6324-01*
Reset Tool, for chain tensioner plunger	EN45027	*6324-02*
Crankshaft Pulley Locking Tool	EN48585	*6324-03*
Camshaft Phaser Retaining Tool	EN48953	*6324-04*
Camshaft Phaser Locking Tool (left)	EN492121 / EN49212	*6324-05*
Camshaft Phaser Locking Tool (right)	EN492122 / EN49212	*6324-06*
Tensioner Locking Pin 2.5 mm	EN95510 / KM955A1 / KM95510	*6308-05*
Tensioner Locking Pin 4.0 mm	EN95520 / KM955A2 / KM95520	*6308-06*

Item	Art. No.
Timing Tool Set, Opel / Saab / Chevrolet	36324

for engine codes:
A20NET, A20NFT, A20NHT, A24XE, A24XF, B20NFT, LDK, LE5, LE9, LHU

Timing Tool Set, Opel

- also for identically constructed engines from Alfa and Fiat
- for 2.2 L engines with timing chain and twin camshafts
- in Opel Astra G, Speedster / Vauxhall VX220, Vectra B / C, Signum and Zafira A / B
- in Alfa Romeo 159, Brera and Spider
- in Fiat Chroma
- for repair work on the water pump
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	KM6148 / 2192360900	*6311-01*
Crankshaft Counter Holder	KMJ38122A / KM9561 / 2192361000 / 2192261000	*6311-02*
Chain Tensioner Locking Pin	KM6077	*6311-03*
Water Pump Locking Tool	KMJ43651	*6311-04*

Item	Art. No.
Timing Tool Set, Opel 2.2 16V petrol	36311

for engine codes:
Z22SE, Z22YH, 194A1000, 939A5000

Timing Tool Set, Opel

- for 1.3 L diesel engines from 2015 until 2017
- in Opel Corsa E (X15)
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Holding Wrench	KM662C / 1871000200	*6313-01*
Camshaft Sensor Timing Tool	EN51500	*6313-02*
Alignment Tool Timing Chain Cover	EN46775	*6313-03*
Camshaft Locking Pins	EN50515	*6313-04*
Crankshaft Locking Pin	EN46785 / 0991238300	*6300-05*
Tensioner Locking Pin 2.5 mm	EN95510 / KM955A1 / KM95510	*6308-05*

Item	Art. No.
Timing Tool Set, Opel	36313

for engine codes:
B13DTC, B13DTE, B13DTR, LKU, LKV

Timing Tool Set, Opel

- for 1.6 L twin camshaft diesel engines with turbo charger
- in Opel Astra J, Astra K, GTC, Insignia B, Meriva B, Mokka, Mokka X and Zafira C Tourer
- for locking the camshafts and crankshaft
- for locking the tensioner
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Chain Tensioner Locking Pin	EN50513	*6306-01*
Crankshaft Locking Tool	EN51140	*6306-02*
Camshaft Locking Tool	EN51143	*6306-03*
Camshaft Sprocket Retaining Tool	EN51188	*6306-04*
Locking Pin	KM6349 / EN6349	*6316-06*

Item	Art. No.
Timing Tool Set, Opel	36306

for engine codes:
B16DTC, B16DTE, B16DTH, B16DTJ, B16DTL, B16DTN, B16DTR, B16DTU, D16DTH, D16DTI, D16DTJ, D16DTN, D16DTR, LVK, LVL, LVM, LWQ, LWV, LXO

Timing Tool Set, Opel

- for Opel 1.6, 1.9 and 2.0 CDTi engines
- also for identically constructed engines from Saab and Chevrolet
- in Opel Astra H/J, Cascada, Combo D, Insignia, Signum, Vectra C and Zafira B/C/Tourer
- in Saab 9-3 and 9-5
- in Chevrolet Malibu
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Pins	EN46789 / 1870896900 / 1870986900 / 0991768620 / 32025008	*6300-06*
Crankshaft Locking Tool	EN46788 / 32023009 / 0991237910 / 1860771000 / 1860905000 / 1860905010 / 2000003000 / 2192543000	*6300-07*
Tensioner Locking Pin	KM6130 / EN9552	*6300-09*

Item	Art. No.
Timing Tool Set, Opel	36309

for engine codes:
A16FDH, A16FDL, A20DT, A20DTC, A20DTH, A20DTJ, A20DTL, A20DTR, A20FD, D19AA, D20AA, DT, DTH, LBQ, LBR, LBS, LBX, LBY, LCD, LHZ, Z19DT, Z19DTL

for engine codes:
B20DTH, D20DTH, D20DTR, LFO, LFS

Timing Tool Set, Opel 2.0 CDTi (timing belt)

- for 2.0 L twin camshaft diesel engines
- in Opel Antara (L07), Cascada (W13), Insignia A (G09), Insignia B (Z18) and Zafira C (P12)
- for locking the crankshaft and camshafts
- for locking the tensioner
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Flywheel Locking Pin (automatic transmission)	EN51411	*6321-01*
Crankshaft Locking Pin	EN51412	*6321-02*
High Pressure Pump Wheel Locking Tool	EN51413	*6321-03*
Camshaft Locking Pin	EN51414	*6321-04*
Tensioner Locking Pin	KM6130 / EN9552	*6300-09*

Item	Art. No.
Timing Tool Set, Opel 2.0 CDTi (timing belt)	36321

for engine codes:
B20DTH, D20DTH, D20DTR, LFO, LFS

Timing Tool Set, Opel 2.0 CDTi (timing chain)

- for 2.0 L twin camshaft diesel engines
- in Opel Antara (L07), Cascada (W13), Insignia A (G09), Insignia B (Z18) and Zafira C (P12)
- for locking the twin camshafts
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool 2 parts, with screws	EN51415	*6320-11*
Chain Tensioner Locking Pin	EN51418	*6320-12*

Item	Art. No.
Timing Tool Set, Opel 2.0 CDTi (timing chain)	36320

for engine codes:
X20DTL, X20DTH, X22DTH, Y20DTL,
Y22DTR, Y22DTH, D223L

Timing Tool Set, Opel

- also for identically constructed engines from Saab
- for 2.0 and 2.2L ECOTEC / Dti diesel engines
- in Opel Astra G, Zafira A, Vectra B and C, Omega B, Signum, Sintra and Frontera B
- in Saab 9-3 and 9-5
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Tensioning Tool	KM933 / 8395394	*6300-04*
Crankshaft Locking Pin	KM929 / 8395352	*6300-15*
Injection Pump Locking Pin	KM927 / 8395337	*6300-16*
Camshaft Locking Tool	KM932 / 8395386	*6300-11*

Item	Art. No.
Timing Tool Set, Opel	36301

for engine codes:
Z20DM, Z20DMH, A20DTJ, Z20S, RA420

Timing Tool Set, Opel

- for 2.0 L diesel engines, also in Chevrolet vehicles
- in Opel Antara and Insignia
- in Chevrolet Captiva, Cruse, Epica, Lacetti and Nubira
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Pin	EN48246	*6320-01*
Camshaft Locking Tool	EN48245	*6320-02*

Item	Art. No.
Timing Tool Set, Opel/Chevrolet 2.0L diesel	6320

Timing Tool Set, Opel

- also for identically constructed engines from Suzuki
- in Opel Agila A / B, Combo C, Corsa C / D, Tigra B, Meriva and Astra H
- in Suzuki Swift, Ignis and Wagon R+
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Pin	EN46785 / 0991238300	*6300-05*
Camshaft Locking Pins	EN46781 / 1860985000 / 1871000900 / 3031472 / 0991768610 / 0104A	*6300-10*
Tensioner Locking Pin	KM955 / EM955 / 0991958320	*6300-08*

Item	Art. No.
Timing Tool Set, Opel 1.3 CDTi	6305

for engine codes:
Z13DT, Z13DTH, Z13DTJ

Timing Tool Set, Fiat FIRE EVO2

- also for identically constructed engines from Ford, Alfa Romeo, Chrysler and Lancia
- for 1.1, 1.2 and 1.4L 8V FIRE EVO2 petrol engines
- in Fiat Doblo, Fiorino, Grande Punto, Idea, Linea, Palio, Palio Weekend, Panda I/II, Panda Van, Punto, Punto Van, Qubo, Strada Pick-up, Uno and New 500
- in Ford Ka
- in Lancia Ypsilon and Musa
- in Alfa Romeo Mito
- in Chrysler Ypsilon
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Cover Alignment Tool	2000004300 / 3031478	*6400-02*
Tensioner Pulley Wrench	1860987000 / 3031560 / EN50782	*3526-16*
Camshaft Locking Rule	2000004400 / 2190754400 / 3031479	*6400-05*
Crankshaft Locking Tool	2000004500 / 2190754500 / 3031480 / EN50780	*6400-03*
Camshaft Sprocket Locking Tool	2000004200 / 2190754200 / 3031477	*6400-01*
Camshaft Locking Tool	1870823000	6401
Camshaft Locking Tool	2000004000	6402

Item	Art. No.
Timing Tool Set, Fiat	36400SP

for engine codes:
169A4000, 188A4000(2001-), 199A4000, 199A7000, 350A1000, FP4, AAAA

Timing Tool Set, Fiat FIRE EVO2

- also for identically constructed engines from Ford, Alfa Romeo, Chrysler and Lancia
- for 1.1, 1.2 and 1.4L 8V FIRE EVO2 petrol engines
- in Fiat Doblo, Fiorino, Grande Punto, Idea, Linea, Palio, Panda I/II, Panda Van, Punto, Qubo, Strada Pick-up, Uno and New 500
- in Ford Ka
- in Lancia Ypsilon and Musa
- in Alfa Romeo Mito
- in Chrysler Ypsilon
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Cover Alignment Tool	2000004300 / 3031478	*6400-02*
Tensioner Pulley Wrench	1860987000 / 3031560 / EN50782	*3526-16*
Camshaft Locking Rule	2000004400 / 2190754400 / 3031479	*6400-05*
Crankshaft Locking Tool	2000004500 / 2190754500 / 3031480 / EN50780	*6400-03*
Camshaft Sprocket Locking Tool	2000004200 / 2190754200 / 3031477	*6400-01*

Item	Art. No.
Timing Tool Set, Fiat FIRE EVO2	36400

for engine codes:
169A4000, 199A4000, 199A7000, 350A1000, FP4, AAAA

6401

6402

Camshaft Locking Tool, Fiat

No. 6401 e.g. for engine codes:
176A6000, 176A7000, 176A8000, 176B1000, 176B2000, 176B4000, 178A5000, 178B5000, 187A1000 up to engine no. 2533527, 188A4000 up to engine no. 2533527, 223A5000 up to engine no. 2533527

No. 6402 e.g. for engine codes:
187A1000 from engine no. 2533528 to 2888158, 188A4000 from engine no. 2533528 to 2939661, 223A5000 from engine no. 2533528

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	1870823000	6401
Camshaft Locking Tool	2000004000	6402

Timing Tool Set, Alfa Romeo / Fiat

- also for identically constructed engines from Lancia and Chrysler
- for 1.4 L MultiAir petrol engines with turbo charger
- in Alfa Romeo Giulietta and MiTo
- in Chrysler Delta
- in Fiat 124 Spider, 500X, Bravo, Punto and Punto Evo
- in Jeep Compass and Renegade
- in Lancia Delta
- for locking the camshaft and crankshaft
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	2000034400	6404
Crankshaft Locking Tool	2000004500 / 2190754500 / 3031480 / EN50780	*6400-03*
Tensioner Pulley Wrench	1860987000 / 3031560 / EN50782	*3526-16*

Item	Art. No.
Timing Tool Set, Alfa Romeo / Fiat	36414

for engine codes:
55253268, 55263623, 55263624, 198A7000, 940A2000, 940C2000, 955A2000, 955A6000, 955A7000, 955A8000, 955B1000, EAM

Camshaft Locking Tool, Alfa Romeo / Fiat

- also for identically constructed engines from Chrysler, Jeep and Lancia
- for 1.4 L MultiAir petrol engines with turbo charger
- in Alfa Romeo Giulietta and MiTo
- in Chrysla Delta
- in Fiat 124 Spider, 500X, Bravo, Punto and Punto Evo
- in Jeep Compass and Renegade
- in Lancia Delta
- for locking the camshaft
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	2000034400	6404

for engine codes:
55253268, 55263623, 55263624, 198A7000, 940A2000, 940C2000, 955A2000, 955A6000, 955A7000, 955A8000, 955B1000, EAM

Timing Tool Set, Fiat 0.9L 2-cylinder

- also for identically constructed engines from Alfa, Lancia and Chrysler
- for 0.9L Twinair 2-cylinder petrol engines
- in Fiat 500, 500 C, 500 L, Panda, Panda Van and Punto
- in Alfa Mito
- in Lancia Ypsilon
- in Chrysler Ypsilon
- for locking the camshaft, crankshaft and balancer shaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	2000035100	*6409-01*
Balancer Shaft Timing Tool	2000038300	6403
Flywheel Locking Pin	2000035300	*6409-02*
Crankshaft Pulley Locking Pin	2000035200	*6409-03*

Item	Art. No.
Timing Tool Set, Fiat 0.9L 2-cylinder	36409

for engine codes:
199B6000, 312A2000, 312A4000, 312A5000, 312A6000, 312A7000

Balancer Shaft Timing Tool, Fiat

- also for identically constructed engines from Alfa, Lancia and Chrysler
- for 0.9L Twinair 2-cylinder petrol engines
- in Fiat 500, 500 C, 500 L, Panda, Panda Van and Punto
- in Alfa Mito
- in Lancia Ypsilon
- in Chrysler Ypsilon

Item	OEM Comparison No.	Art. No.
Balancer Shaft Timing Tool	2000038300	6403

for engine codes:
312A2000, 312A4000, 312A5000, 312A6000, 312A7000

Timing Tool Set, Fiat / Jeep

- for 1.0 and 1.3 L GSE (FireFly) 3- and 4-cylinder petrol engines
- in Fiat 500X (334) and Tipo (356/357)
- in Jeep Compass (MP/M6/MV/M7) and Renegade (BU/B1/BV)
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	2063500090	*36411-01*
Crankshaft Locking Pin	2063600090	*36411-02*
Crankshaft holding tool	2064000090	*36411-03*

Item	Art. No.
Timing Tool Set, Fiat / Jeep	36411

for engine codes:
46337540, 55282151, 55282328, EKA

Timing Tool Set, Alfa

- for 1.4, 1.6, 1.8 and 2.0 L 16V petrol engines (Twin-Spark)
- not suitable for 1.6 L engines with 76/77 kW
- in Alfa 145, 146, 147, 155, 156, 166, Spider and GTV
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Colour	Art. No.
Camshaft Locking Tool	1825042000	purple	*5614-03*
Camshaft Locking Tool	1825041000	blue	*5614-04*
Tensioner Wrench	1860845000		*3526-13*
Tensioner Wrench	1822154000		*5614-01*

Item	Art. No.
Timing Tool Set, Alfa 1.4/1.6/1.8/2.0 16V	36484

for engine codes:
16201, 32102, 32103, 32104, 32201, 32301, 32310, 33503, 34103, 67106, 67204, 67601

Timing Tool Set, Fiat

- also for identically constructed engines from Lancia
- for 1.4 L 12V petrol engines
- in Fiat Brava, Bravo, Marea and Marea Weekend
- in Lancia Ypsilon
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	1860899000	*6414-01*
Camshaft Locking Tool	1860901000	*6414-02*

Item	Art. No.
Timing Tool Set, Fiat 1.4 12V petrol	6414

for engine codes:
182A3000, 182A5000, 840A2000, 840A4000

Timing Tool Set, Fiat

- also for identically constructed engines from Abarth, Alfa Romeo, Chrysler, Lancia and Opel
- for 1.2 and 1.4 L 16V petrol engines
- in Fiat Bravo (1+2), Brava, Doblo, Doblo Cargo, Punto, Grande Punto, Idea, Marea, Linea, Palio Weekend, Panda, Ritmo, Stilo, Tipo II and New 500 / 500C / 500L
- in Abarth 500, 595 and 695
- in Alfa Romeo Giulietta and MiTo
- in Chrysler Delta
- in Lancia Delta, Musa and Ypsilon
- in Opel Combo
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Top Dead Center Locater	1860992000	*3526-09*
Camshaft Locking Pins	EN46781 / 1860985000 / 1871000900 / 3031472 / 0991768610 / 0104A	*6300-10*
Tensioner Pulley Wrench	1860987000 / 3031560 / EN50782	*3526-16*
Crankshaft Locking Tool	2000004500 / 2190754500 / 3031480 / EN50780	*6400-03*
Camshaft Locking Tool	2000015800 / EN50781	*6412-05*

Item	Art. No.
Timing Tool Set, Alfa/Fiat/Opel 1.2/1.4 16V petrol	36412

for engine codes:
169A3000, 176B9000, 182B2000, 188A5000, 192B2000, 198A1000, 198A4000, 199A6000, 199A8000, 312A1000, 312A3000, 843A1000, 940A6000, 940B1000, 940B7000, 940B8000, 955A1000, A14FC, A14FP, A14SN, A14XE, B14SN, B14XE, LJA, LJD, LUS

Timing Tool Set, Alfa / Fiat

- for Fiat 1.6, 1.9, 2.0 and 2.4 JTD engines
- also for identically constructed engines from Lancia, Opel, Saab and Chevrolet
- in Alfa 147, 156, 159, 166, Brera, Crosswagon, Giulietta, GT, Mito and Spider
- in Fiat 500L, Bravo II, Croma, Doblo/, Cargo, Ducato, Freemont, Idea, Linea, Multipla, Grande, Punto / Evo, Sedici and Stilo
- in Lancia Delta III, Lybra, Musa and Thesis
- in Opel Astra H/J, Cascada, Combo D, Insignia, Signum, Vectra C and Zafira B/C/Tourer
- in Saab 9-3 and 9-5
- in Chevrolet Malibu
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Pins	EN46789 / 1870896900 / 1870986900 / 0991768620 / 32025008	*6300-06*
Crankshaft Locking Tool	EN46788 / 32023009 / 0991237910 / 1860771000 / 1860905000 / 1860905010 / 2000003000 / 2192543000	*6300-07*
Tensioner Locking Pin	KM6130 / EN9552	*6300-09*
Flywheel Locking Tool	0991417930 / 1820007000 / 1820228000 / 1820240000 / 1820240000 / 1820630000 / 1860898000	*3526-15*

Item	Art. No.
Timing Tool Set, Alfa / Fiat	36309SP

for engine codes:
182B9000, 188A7000, 188B2000, 192A1000, 192A3000, 192A5000, 192A8000, 192A9000, 192B1000, 192B4000, 192B5000, 198A2000, 198A3000, 198A5000, 198A6000, 199A5000, 199B5000, 223A7000, 223B1000, 250A1000, 263A1000, 263A3000, 263A4000, 263A5000, 350A2000, 350A3000, 841G001, 841H001, 841M001, 841N001, 841P001, 844A2000, 844A3000, 937A2000, 937A3000, 937A4000, 937A5000, 937A6000, 939A1000, 939A2000, 939A3000, 939A7000, 939B3000, 939B4000, 940A3000, 940A4000, 940A5000, 940A7000, 940A8000, 944A3000, 955A3000, 955A4000, A16FDH, A16FDL, A20DT, A20DTC, A20DTH, A20DTJ, A20DTL, A20DTR, A20FD, D19AA, D20AA, DT, DTH, LBQ, LBR, LBS, LBX, LBY, LCD, LHZ, Z19DT, Z19DTL

Camshaft Sprocket Counter Holder, 1.3 L diesel

- for identically constructed engines from Alfa, Citroen, Fiat, Ford, Lancia, Opel, Peugeot and Suzuki
- for removal and assembly of the camshaft sprockets
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Sprocket Counter Holder, 1.3 L diesel	1871008600 / 0104B / 3031475	6415

for engine codes:
55266963, 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 199B8.000, 223A9.000, 225A2.000, 263A2.000, 263A6.000, 312A8.000, 312B1.000, 312B2.000, 330A1.000, 843A2.000, A13DTC, A13DTE, A13DTR, A13FD, BAAA, D13A, F13DTE5, FD4, FHZ, LSF, Y13DT, Z13DT, Z13DTE, Z13DTH, Z13DTJ, Z13DTR

Timing Tool Set, for commercial vehicles

- for 2.2, 2.3, 2.8 and 3.0 L diesel engines
- in Citroen Relay and Jumper
- in Fiat Ducato and Iveco Daily
- in Opel Arena and Movano
- in Peugeot Boxer I and II
- in Renault Trafic, Master and Mascot
- for timing belt / chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	99360615	*6430-01*
Camshaft Locking Tool	99360614 / 3031472 / 01912A	*6430-03*
Balancer / Crankshaft Locking Tool	07LAGPT20100 / 18G1671 / 2000018200	*6430-04*
Timing Belt Bracket	0132AK / 0153AK / 0187J / 0188K / 0189K / 4533TAD / MOT1436 / 1870900100	*3521-14*
Tensioner Locking Bracket	1860638000 / 0191H	*6410-02*
Locking Pins	MOT910 / KM966	*3522-12*
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*
Crankshaft Locking Tool, 11 mm		*6430-02*
Locking Pin	MOT1054 / MOT861 / MOT863 / KM6031 / 99395214	*3522-14*

Item	Art. No.
Timing Tool Set, for commercial vehicles	36430

for engine codes:
814027, 814043, 814047, 814063, 814067, 814421, 814461, 814465, 814467, 814481, 814491, 814497, 814047R, 814497S, 814497Y, F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481FB, F1AE0481G, F1AE0481GA, F1AE0481GB, F1AE0481H, F1AE0481HA, F1AE0481HB, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481UB, F1AE0481VA, F1AE0481VB, F1AE3481A, F1AE3481B, F1AE3481C, F1AE3481D, F1AE3481E, F1AE3481G, F1AFL411A, F1AFL411B, F1AFL411C, F1AGL4111, F1AGL4112, F1AGL4113, F1AGL4114, F1AGL4115, F1AGL411A, F1AGL411B, F1AGL411C, F1AGL411D, F1AGL411M, F1CE0114A, F1CE0441A, F1CE0441F, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481FA, F1CE0481FB, F1CE0481H, F1CE0481HA, F1CE0481HB, F1CE34818, F1CE3481C, F1CE3481CC, F1CE3481D, F1CE3481DM, F1CE3481E, F1CE3481J, F1CE3481K, F1CE3481LC, F1CE3481M, F1CE3481N, F1CFA401A, F1CFL411E, F1CFL411F, F1CFL411G, F1CFL411H, F1CFL411J, F1CFL411V, F1CFL411W, F1CGL411A, F1CGL411B, F1CGL411C, F30DTE, S8U, S9U, S9W

Timing Tool Set, for commercial vehicles

- for 2.2, 2.3, 2.8 and 3.0 L diesel engines
- in Citroen Relay and Jumper
- in Fiat Ducato and Iveco Daily
- in Opel Arena and Movano
- in Peugeot Boxer I and II
- in Renault Trafic, Master and Mascot
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Locking Pin	MOT1054 / MOT861 / MOT863 / KM6031 / 99395214	*3522-14*
Crankshaft Locking Tool	99360615	*6430-01*
Crankshaft Locking Tool, 11 mm		*6430-02*
Timing Belt Bracket	0132AK / 0153AK / 0187J / 0188K / 0189K / 4533TAD / MOT1436 / 1870900100	*3521-14*
Tensioner Locking Bracket	1860638000 / 0191H	*6410-02*
Camshaft Locking Tool	99360614 / 3031472 / 01912A	*6430-03*
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*

Item	Art. No.
Timing Tool Set, Fiat 2.3/3.0 JTD	6430

for engine codes:
F1AE0481C, F1CE0481D, F30DT, S8U, S9W, S9U, 814467, 814027, 814047R, 814421, 814497Y, 814043, 814063, 814043S

Timing Tool Set, Fiat / Ford / Opel

- also for identically constructed engines from Alfa, Citroen, Lancia, Peugeot and Suzuki
- for 1.3 L diesel engines
- in Alfa MiTo
- in Citroen Nemo
- in Fiat Doblo / Cargo / WorkUp, Fiorino, Idea, Linea, Panda Classic, Punto Classic / Evo, Grande Punto, Qubo, Strada Pick Up, Tipo and 500 C / L / X / Living / MPW
- in Ford Ka with 1.3 L Duratorq diesel
- in Lancia Ypsilon and Musa
- in Opel Agila A/B, Astra H/J, Combo C/D, Corsa C/D, Meriva A/B, Tigra B and Zafira B
- in Peugeot Bipper
- in Suzuki Swift, Splash, Wagon and Ingis
- for removal and assembly of the camshaft sprockets
- for timing chain replacement or engine repair

for engine codes:
55266963, 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 199B8.000, 223A9.000, 225A2.000, 263A2.000, 263A6.000, 312A8.000, 312B1.000, 312B2.000, 330A1.000, 843A2.000, A13DTC, A13DTE, A13DTR, A13FD, BAAA, D13A, F13DTE5, FD4, FHZ, LSF, Y13DT, Z13DT, Z13DTE, Z13DTH, Z13DTJ, Z13DTR

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Pin	EN46785 / 0991238300	*6300-05*
Crankshaft Locking Pin, 8 mm		*6413-02*
Camshaft Locking Pins	EN46781 / 1860985000 / 1871000900 / 3031472 / 0991768610 / 0104A	*6300-10*
Crankshaft Locking Tool	1870900300 / 3031468 / 0104C	*6413-04*
Tensioning Tool	1870900400 / 3031469	*6413-05*
Fixing Screws		*6413-06*
Crankshaft Flange Holding Wrench	KM662C / 1871000200	*6413-07*
Camshaft Sprocket Counter Holder	1871008600 / 0104B / 3031475	6415

Item	Art. No.
Timing Tool Set, Fiat / Ford / Opel	36413SP

Timing Tool Set, Fiat, 33 pcs.

- also for identically constructed engines from Alfa Romeo and Lancia
- in Fiat Brava/Bravo, Barchetta, Cargo, Coupe, Doblo, Ducato, Idea, Marea/Weekend, Multipla, Palio/Weekend, Punto, Scudo, Stilo, Tipo, Tempra and Ulysse
- in Alfa Romeo 145, 146, 147, 155, 156, Spider and GTV
- in Lancia Delta, Ulysse and Ypsillon
- for 1.2, 1.4, 1.6, 1.8 16V petrol and 1.9 D, TD, JTD, 2.4 TD / JTD diesel engines
- for timing belt replacement or engine repair

for engine codes:
32201, 33503, 67106, 67601, 37203, 32104, 32301, 67204, 32401, 16201, 32310, 67301, 149B1000, 154B1000, 160A6000, 160A7000, 160D1000, 175A1000, 175A3000, 176A3000, 176A5000, 176B3000, 176B9000, 182A1000, 182A2000, 182A3000, 182A4000, 182A5000, 182A7000, 182A8000, 182B2000, 182B4000, 182B6000, 185A6000, 188A3000, 188A5000, 192A1000, 192A3000, 230A2000, 230A4000, 836A3000, D8B, D9B, DHX, DJY, LFW, RFU, RFV, RFW, RGX

Content	OEM Comparison No.	Art. No.
Screws		*3526-01*
Camshaft Locking Tool	1860847000	*3526-02*
Camshaft Locking Tool	1860875000	*3526-03*
Camshaft Locking Tool	1870697000	*3526-04*
Flywheel Locking Tool	1860771000	*3526-05*
Flywheel Locking Tool	MOT58201 / 1860703000	*3526-06*
Flywheel Locking Tool	1860863000	*3526-07*
Dial Gauge Holder, 8.0 mm intake	1860895000 / 1895879000	*3526-08*
Top Dead Center Locater	1860992000	*3526-09*
Camshaft Locking Tool	1860874000 (+ 3526-11)	*3526-10*
Camshaft Locking Tool	1860874000 (+ 3526-10)	*3526-11*
Crankshaft Locking Tool	1860305000	*3526-12*
Tensioner Wrench	1860845000	*3526-13*
Tensioner Pulley Locking Tool	1860876000	*3526-14*
Flywheel Locking Tool	0991417930 / 1820007000 / 1820228000 / 1820240000 / 1820240000 / 1820630000 / 1860898000	*3526-15*
Tensioner Pulley Wrench	1860987000 / 3031560 / EN50782	*3526-16*
Locking Pin	0188H / 1860965000	*3526-17*
Camshaft / Fuel Injection Pump Locking Pin		*3526-18*
Camshaft Locking Pin	1860985000	*3526-19*

Item	Art. No.
Timing Tool Set, Fiat	3526

Timing Tool Set, Mercedes

- for 1.5, 1.6 and 2.0 L petrol engines
- in Mercedes A-Class (176/177), B-Class (242/246/247), C-Class (204/205), CLA (117/118), CLS (257), E-Class (207/212/213/238), GLA (156/247), GLB (247), GLC (253), GLE (167), GLK (204), SLC (172) and SLK (172)
- for locking the camshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	270589016100	*36820-01*
Cam Phaser Socket	271589001000 / 177589000900	6801-05

Item	Art. No.
Timing Tool Set, Mercedes	36820A

for engine codes:
133980, 260920, 264915, 264920, 270910, 270920, 274910, 274920

Timing Tool Set, Mercedes

- in Mercedes C 160, C 180, C 200, C 230, C 250, CLC 160, CLC 180, CLC 200, CLK 200, E 200, E 250, SLK 200, SLK 250 and Sprinter 216 / 316 / 516
- for series W/S/CL 203, W/S 204, C/A 209, W/S 211, W 212, R 171 and W 906
- for locking the tensioner and camshaft
- to operate the central valve screw of variable camshaft setting
- for timing chain replacement, engine repair and cylinder head gasket replacement

Content	OEM Comparison No.	Art. No.
Timing Chain Holding Device	271589014000	*6801-01*
Camshaft Locking Tool	271589006100	*6801-02*
Assembly Mandrel	271589001500	*6801-03*
Chain Tensioner Locking Tool	271589003100	*6801-04*
Cam Phaser Socket	271589001000 / 177589000900	6801-05

Item	Art. No.
Timing Tool Set, MB M271 petrol	6801

for engine codes:
271820, 271860, 271861, 271910, 271911, 271921, 271940, 271941, 271942, 271943, 271944, 271946, 271948, 271950, 271951, 271952, 271954, 271955, 271956, 271957, 271958

Cam Phaser Socket, 1/2", tx-star tamperproof T100, Mercedes

- in Mercedes A-Class (W176), AMG GT (C190), AMG GT Roadster (R190), B-Class (W246, W242), C-Class (W204, W205), CLA Coupe (C117), CLA Shooting Brake (X117), CLS (C218, C257), E-Class (W212, W213), E-Classs Convertible (A207, A238), E-Class Coupe (C207, C238), G-Class (W463), GLA-Class (X156), GLC (X253), GLE (W166), GLE Coupe (C292), GLK-Class (X204), GL (X166), M-Class (W166), R-Class (W251, V251), S-Class (W221, W222, V222, X222), S-Classs Convertible (A217), S-Class Coupe (C216, C217), SL (R231) and SLK (R172)
- to operate the central valve screw of variable camshaft setting
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Cam Phaser Socket	271589001000 / 177589000900	6801-05

for engine codes:
M133, M157, M176, M177, M178, M256, M264, M270, M271.8, M274, M276, M278

Camshaft Locking Tool, Mercedes

- for 1.8 and 2.1 L 4-cylinder Common-Rail diesel engines
- for engines production year after 2012 and engines in hybrid vehicles
- in most Mercedes cars and vans
- in Jeep Compass and Patriot
- in Dodge Caliber
- for locking the camshafts
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool, Mercedes	651589014000, 651589094000	6823

for engine codes:
651900, 651901, 651910, 651911, 651912, 651913, 651916, 651921, 651922, 651924, 651925, 651930, 651940, 651950, 651955, 651956, 651957, 651958, 651959, 651960, 651961, 651980, ENE

Timing Tool Set, Mercedes

- for 1.6, 2.0 and 2.9 L diesel engines
  in Mercedes A-Class (177), B-Class (247), C-Class (205/206), CLA (118), CLS (257), E-Class (213/238), G-Class (463), GLA (247), GLB (247), GLC (253/254), GLE (167), GLS (167), Marco Polo (447), S-Class (222/223), Sprinter (907/910), Vito (447) and V-Class (447)
- for locking the camshafts and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Alignment	654589002100	*36819-01*
Crankshaft Rotation Tool	654589004000	*36819-02*
Camshaft Locking Tool	654589014000	*36819-03*

Item	Art. No.
Timing Tool Set, Mercedes	36819

for engine codes:
654820, 654916, 654920, 656929, OM654, OM656

Timing Tool Set, Mercedes

- for 1.8 and 2.2 L OM651 diesel engines with timing chain
- also suitable for identically constructed engines from Jeep and Dodge
- in Mercedes in the A-, B-, C-, E-, M- and S-Class as well as in the GLK, Sprinter, Viano and Vito
- in Jeep Compass and Patriot
- in Dodge Caliber
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	651589014000	*6821-01*
Crankshaft Locking Tool	651589004000	*6821-02*

Item	Art. No.
Timing Tool Set, Mercedes	36821

for engine codes:
651901, 651910, 651911, 651912, 651913, 651916, 651922, 651924, 651925, 651930, 651940, 651955, 651956, 651957, 651960, 651961, 651980, ENE

Crankshaft Locking Tool, Mercedes

- also for identically constructed engines from Dacia, Nissan und Renault
- in Mercedes A-Class (176), B-Class (242/246), C-Class (204/205), E-Class (207/212), M-Class (166), S-Class (221/222), V-Class (447), Citan (415), CLA (117), CLS (218), GLA (156), GLC (253), GLE (166), GLK (204), SLC (172), SLK (172), Sprinter (906/907/910), Viano (639) and Vito (447/639)
- in Dacia Duster and Logan
- in Nissan Almera II, Cube, Juke, Kubistar, Micra III, Note, Pulsar, Qashqai I / II and NV200
- for locking the crankshaft with the starter ring gear
- for loosening and tightening the crankshaft bolt with high tightening torque, e.g. in M270: 200 NM + 180°
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Tool, Mercedes	270589004000	6887

for engine codes:
K9K262, K9K266, K9K276, K9K292, K9K299, K9K430, K9K608, K9K609, K9K612, K9K636, K9K700, K9K702, K9K704, K9K706, K9K708, K9K710, K9K712, K9K714, K9K716, K9K718, K9K722, K9K724, K9K728, K9K729, K9K732, K9K734, K9K740, K9K750, K9K752, K9K760, K9K762, K9K764, K9K766, K9K768, K9K770, K9K772, K9K774, K9K780, K9K782, K9K790, K9K792, K9K794, K9K796, K9K800, K9K802, K9K804, K9K806, K9K808, K9K812, K9K816, K9K820, K9K830, K9K832, K9K834, K9K836, K9K837, K9K838, K9K842, K9K884, K9K892, K9K894, K9K896, K9K898, 133980, 270910, 270920, 607951, 651901, 651910, 651911, 651912, 651913, 651916, 651921, 651922, 651924, 651925, 651930, 651940, 651950, 651955, 651956, 651957, 651958, 651959, 651960, 651961, 651980

Balance Shaft Locking Tool, Mercedes

- for 1.8 and 2.1 L 4-cylinder Common-Rail diesel engines OM651
- in most Mercedes cars and vans
- in Jeep Compass and Patriot
- in Dodge Caliber
- for fixing the balance shaft
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Balance Shaft Locking Tool, Mercedes	651589026300	6822

for engine codes:
651900, 651901, 651910, 651911, 651912, 651913, 651916, 651921, 651922, 651924, 651925, 651930, 651940, 651950, 651955, 651956, 651957, 651958, 651959, 651960, 651961, 651980, ENE

Camshaft Sprocket Loosening Wrench, Mercedes, 1/2", tx-star E14

- for 1.8 and 2.1 L 4 cylinder Common-Rail diesel engines
- in Mercedes cars and vans
- in confined spaces, e.g. in Sprinter
- in Jeep Compass and Patriot
- in Dodge Caliber
- for loosening and tightening the camshaft sprockets
- for timing chain replacement or engine repair

Item	Profile	Drive	Art. No.
Camshaft Sprocket Loosening Wrench	tx-star	1/2"	6824

for engine codes:
651900, 651901, 651910, 651911, 651912, 651913, 651916, 651921, 651922, 651924, 651925, 651930, 651940, 651950, 651955, 651956, 651957, 651958, 651959, 651960, 651961, 651980, ENE

Timing Tool Set, Mercedes OM642

- for 3.0 L V6 diesel engines
- in Mercedes C-Class (203/204), E-Class (207/211/212/213/238), G-Class (461/463), GL (164/166/292), GLC (253), GLK (204), M-Class (164/166), R-Class (251), S-Class (221/222), X-Class (470), Sprinter (906/907) and Viano/Vito (639)
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Bolts	111589031500 / 8929	*3506-02*
Flywheel Locking Tool	112589034000	*6830-01*
Camshaft Locking Tool, 2 pcs.	642589003100	*6830-02*
Timing Chain Hold-Down Device (Euro 6)	642589014000	*6830-03*
Timing Chain Hold-Down Device (not Euro 6)	642589044000	*6830-04*

Item	Art. No.
Timing Tool Set, Mercedes OM642	36830

for engine codes:
642820, 642822, 642826, 642830, 642832, 642834, 642835, 642836, 642838, 642850, 642852, 642853, 642854, 642855, 642856, 642858, 642861, 642862, 642867, 642868, 642870, 642872, 642873, 642884, 642886, 642887, 642889, 642890, 642896, 642899, 642910, 642920, 642921, 642922, 642930, 642932, 642940, 642950, 642960, 642961, 642970, 642975, 642990, 642992, 642993

Timing Tool Set, Mercedes

- also for identically constructed engines from Chrysler
- for petrol and diesel engines with and without turbo charger
- in Mercedes series 190, C, CLK, E, G, M, S, SL, SLK, Vito, Viano, Sprinter and various vans
- in Chrysler PT-Cruiser and Jeep Grand Cherokee
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	601589024000 / 8932	*3506-01*
Crankshaft Locking Tool	602589004000 / 8933	*3506-03*
Fixing Screws		*3506-04*
Camshaft Locking Bolts	111589031500 / 8929	*3506-02*

Item	Art. No.
Timing Tool Set, Mercedes	36806

for engine codes:
M102, M104E28, M104E30, M104E32, M111, M119, M120, OM601, OM602, OM603, OM604, OM605, OM606, OM611, OM612, OM613, OM628, OM646, OM647, OM648, EDJ

Timing Chain Riveter, 3 + 4 mm, Mercedes

- for engines with simplex and duplex timing chains
- for many Mercedes petrol and diesel engines with timing chains
- for single and twin roll chains
- for mounting new timing chains without removing the chain housing
- for separating and riveting timing chains
- for timing chain replacement, engine repair and cylinder head gasket replacement

Content	OEM Comparison No.	Application	Art. No.
Separation and Pilot Bolt	602589056300	4 mm	*6874-1AB*
Chain Separator Tool	602589023300	3 + 4 mm	*6874-01*
Chain Riveter Tool	602589003900	3 + 4 mm	*6874-02*
Guide Rail, rivets simplex	103589016300	4 mm	*6874-03A*
Guide Rail, rivets duplex	112589069300	4 mm	*6874-03B*
Guide Rail, assembly	602589026300 (+ 6874-06/-07)	3 + 4 mm	*6874-04*
Thrust Piece, for riveting	602589036300	4 mm	*6874-05*
Thrust Piece, for assembly	602589026300 (+ 6874-04/-07)	3 + 4 mm	*6874-06*
Pilot Link	602589026300 (+ 6874-04/-06)	4 mm	*6874-07*
Chain Lock	602589024000	4 mm	*6874-08*
Fixing Screw		3 + 4 mm	*6874-09*
Spare Thrust Bolt Kit	602589056301	4 mm	*6874-10*
Separation and Pilot Bolt	602589046300	3 mm	*6874-11*
Guide Rail, rivets duplex		3 mm	*6874-12*
Thrust Piece, for riveting	103589016300	3 mm	*6874-13*
Pilot Link	602589024000	3 mm	*6874-14*
Chain Lock	602589024000	3 mm	*6874-15*
Spare Thrust Bolt Kit	602589046301	3 mm	*6874-16*

Item	Art. No.
Timing Chain Riveter, Mercedes, 3 + 4 mm	6874-1

Timing Tool Set, PSA

for engine codes:
3FY, 3FZ, 6FY, 6FZ, EW10A, EW10ABE4, EW10D, EW10J4, EW10J4/L4/L5, EW10J4S, EW12J4, EW12J4/L5, EW7A, EW7J4, RFH, RFJ, RFK, RFN, RFR, RLZ

- also for identically constructed engines from Fiat and Lancia
- for 1.8, 2.0 and 2.2L petrol engines with 16 valves
- in Peugeot 206, 206 CC, 307, 307 CC, 308, 406, 406 Coupe, 407, 407 Coupe, 607, 806, 807 and Expert I / II / III
- in Citroen C4, C4 Picasso, Grand Picasso, C5 I / II / III, C8, Xsara II, Xsara Picasso and Jumpy I / II / III
- in Fiat Scudo and Ulysse I / II
- in Lancia Phedra
- for locking the camshafts and crankshaft
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Tensioner Locking Tool	0189E	*6520-01*
Tensioner Counterholder	0189S2 / 1871008000	*6520-02*
Flywheel Locking Tool	0189C	*3521-15*
Timing Belt Bracket	0132AK / 0153AK / 0187J / 0188K / 0189K / 4533TAD / MOT1436 / 1870900100	*3521-14*
Tensioning Tool	0189S1 / 1871007900	*6520-03*
Crankshaft Locking Pin	0189R / 1871007800	6521
Camshaft Locking Tool	0189A / 1871008100	*3521-23*
Camshaft Locking Tool	0189AZ	*3521-24*
Camshaft Locking Tool	0189L	*3521-19*
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*
Camshaft Locking Tool	0189B / 0187B / MOT1430 / 21263 / 0194B / 9997122 / 0188M / 3031277 / 0132AJ1 / 303735 / 49JE02021 / 0991958120	*3521-25*
Locking Pin	0188M / 0132AJ2 / 4533TAC2 / 4533TAC / 2000023200	*3521-26*

Item	Art. No.
Timing Tool Set, PSA	36520

Timing Tool Set, PSA

- universal assortment for petrol and diesel engines from PSA
- also for identically constructed engines from Fiat, Ford, Nissan, Renault, Rover and Toyota
- for almost all models from Citroen and Peugeot

Content	OEM Comparison No.	Art. No.
Tensioner Locking Tool	0189E	*6520-01*
Auxiliary Belt Tensioner Locking Bolt	0188Q2	*6522-04*
Flywheel Locking Tool	0153N / 0188D / 0288D / 0188Y / 7099TM	*3521-22*
Crankshaft Locking Tool	0188X / 3031059 / 3031270 / 9997121	*3521-01*
Auxiliary Belt Tensioner Locking Bolt	0188Q1	*6522-01*
Crankshaft Locking Pin	0189R / 1871007800	6521
Crankshaft Locking Tool	7017TR	*3521-03*
Tensioner Wrench	0188J2	*3521-08*
Crankshaft Locking Tool	18G1632	*3521-04*
Retaining Spring		*3521-30*
Flywheel Locking Tool	0189C	*3521-15*
Flywheel Locking Tool	6012T / 9022TM / 9765/54 / 0153A / 1860161000 / 1867030000 / 607589014000 / MOT582-01	*3521-11*
Flywheel Locking Tool	4507TA / 0132Q / 0132QZ / 9767 / 27	*3521-09*
Tensioner Counterholder	0189S2 / 1871008000	*6520-02*
Belt Pulley Puller	0188P / 7015T	*3521-20*
Flywheel Locking Tool	7044T / 9004T / 0134Q / 0153A / 0153AF / 0188F	*3521-16*
Tensioner Wrench	0188J1	*3521-07*
Crankshaft Locking Tool	0188AH	*6520-05*
Timing Belt Tensioner Locking Pin	0153AL / 4200TA	*6522-02*
Tensioning Tool	4507TJ / 976789 / 0132X	*3521-05*
Camshaft / Fuel Injection Pump Locking Tool	4533TAC1 / 0132AJ1 / 0153G	*3521-17*
Locking Tool, M8x70 mm	0188E	*3521-18*
Locking Pin	0188M / 0132AJ2 / 4533TAC2 / 4533TAC / 2000023200	*3521-26*
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*
Camshaft Locking Tool	0189L	*3521-19*
Crankshaft Locking Pin	0194C / 21262 / 303734 / 119790 / 9997169 / 49JE02020	*6204-03*
Locking Pin, 8 mm		*3521-27*
Flywheel Locking Tool	4527TS2 / 0132AB	*3521-28*
Camshaft Locking Pin	0132RZ / 4507TB	*3521-06*
Camshaft Locking Tool	0189A / 1871008100	*3521-23*
Timing Belt Bracket	0132AK / 0153AK / 0187J / 0188K / 0189K / 4533TAD / MOT1436 / 1870900100	*3521-14*
Timing Belt Clamp	0188AD	*6522-03*
Camshaft Locking Tool	0189B / 0187B / MOT1430 / 21263 / 0194B / 9997122 / 0188M / 3031277 / 0132AJ1 / 303735 / 49JE02021 / 0991958120	*3521-25*
Camshaft Locking Tool	0189AZ	*3521-24*
Locking Pin	7014TM / 0153M / 9767 / 94	*3521-13*
Crankshaft / Fuel Injection Locking Tool	0178C / 5711TC	*3521-29*
Tensioning Tool	0189S1 / 1871007900	*6520-03*
Locking Pins	9041TZ / 0153AB	*3521-21*
Flywheel Locking Tool	4507TL / 0132P	*3521-10*

Item	Art. No.
Timing Tool Set, PSA	36521

for engine codes:
1KRFE, 1NDTV, 2WZTV, 3FY, 3FZ, 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, 6FY, 6FZ, 8HX, 8HY, 9HX, 9HY, 9HZ, A9A, BDY, BDZ, BFZ, CDY, CDZ, D4164T, D6A, D6B, D6D, D8B, D8C, D9B, DDZ, DFZ, DHX, DJ5, DJ5T, DJ5TED, DJY, DKATE, DKZ, DKZDFZ, DV4TD, DV4TED4, DV6ATED4, DV6TED4, DW8, DW8B, DW10ATD, DW10ATED, DW10ATED4, DW10BTED, DW10BTED/L3, DW10CTED4, DW10JATED4, DW10TD, DW10UTD, DW12ATED, DW12ATEDL/L4, DW12BTED4, DW12CTED4, DW12MTED4, DW12TED4/L4, DW12UTED, EW10A, EW10ABE4, EW10D, EW10J4, EW10J4D, EW10J4S, EW10L4, EW10L5, EW12J4, EW12L4, EW12L5, EW7A, EW7J4, EW7JP4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, GPDA, GPDB, GPDC, HDY, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, K9A, KDX, KDY, KFW, KFX, KFZ, L6A, LFX, LFY, LFZ, MTDA, NFT, NFU, NFV, NFW, NFX, NFY, NFZ, P8A, P8B, P9A, PHZ, RDZ, RFH, RFJ, RFK, RFL, RFN, RFR, RFS, RFT, RFU, RFV, RFW, RFX, RFY, RFZ, RGX, RGY, RHA, RHE, RHF, RHG, RHH, RHJ, RHK, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, RLZ, T8A, T9A, THX, THY, THZ, TU1, TU3, TU5J4, TU5JP, TU5L3, TU9, TUD3, TUD5, TZJB, UBJA, VJX, VJY, VJZ, WJY, WJZ, XU10J2, XU10J4, XU5, XU7, XU7JP4, XU9, XUD11A, XUD11ATE, XUD11BTE, XUD7, XUD7TE, XUD9A, XUD9AU, XUD9AY, XUD9BTF, XUD9TE, XUD9TFL, XUD9TFY, XUD9UTF, Y6

Timing Tool Set, PSA / Opel / Toyota

- for 1.0 VTi and 1.2 L PureTech/VTi/THP 3-cylinder petrol engines
- for the generation of engines from 2012 onwards
- in Peugeot 108, 208, 301, 308, 2008, 3008, 3008 II, 5008 and 5008 II
- in Citroen Berlingo III / IV, C1 II, C3 III / IV / Aircross / Picasso, C4 II / Cactus / Picasso / Grand Picasso II / SpaceTourer / Grand SpaceTourer, C5 Aircross and C-Elysee
- in DS 3, 3 II, 3 Cabrio, 3 Crossback, 4, 4 II, 4 Crossback and 7 Crossback
- in Opel Combo (X19), Corsa F, Crossland, Crossland X, Grandland X and Mokka
- in Toyota Aygo
- for locking the camshafts and crankshaft
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	01092A / EN521271	*6503-01*
Flywheel Locking Bolt	01092B / EN521272 / 0197N / EN52588	*6503-02*

Item	Art. No.
Timing Tool Set, PSA	36503

for engine codes:
1PP, B12XHT, D12XHL, D12XHT, EB0, EB0F, EB2, EB2ADT, EB2ADTD, EB2ADTS, EB2ADTSM, EB2ADTX, EB2ADTXM, EB2D, EB2DT, EB2DTM, EB2DTS, EB2DTSD, EB2DTSM, EB2F, EB2FA, EB2FAD, EB2FB, EB2FD, EB2M, F12XHT, HM01, HMH, HMM, HMP, HMR, HMT, HMU, HMV, HMW, HMX, HMY, HMZ, HNJ, HNK, HNL, HNN, HNP, HNS, HNT, HNV, HNW, HNX, HNY, HNZ, LEG, LES, LEZ, ZMZ

Timing Tool Set, PSA / Opel

- for 1.2 L PureTech / VTi / THP 3-cylinder petrol engines **with split valve cover**
- in Citroen Berlingo, C-Elysee, C3 Aircross II, C3 II, C3 III, C3 Picasso, C4 Cactus, C4 Grand Picasso II, C4 II, C4 Picasso II, C4 Spacetourer, Grand C4 Spacetourer and C5 Aircross
- in DS Automobiles DS3, DS3 Cabriolet, DS4 and DS7
- in Opel Combo-e, Corsa F, Crossland X and Grandland X
- in Peugeot 208, 2008, 308 II, 308 SW II, 3008, 3008 SUV, 5008, 5008 II, Partner Tepee and Rifter
- allows up to 2 hours time saving
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool, inlet	01092C	*6504-01*
Camshaft Locking Tool, exhaust	01092D	*6504-02*
Timing Belt Checking Gauge	1643190080, 01096, EN52809	6503
Flywheel Locking Bolt	01092B / EN521272 / 0197N / EN52588	*6503-02*
Timing Tool Set	0109-2E, 0109-2E1, 0109-2E2, 2000037072	6505

Item	Art. No.
Timing Tool Set, PSA / Opel	36504A

for engine codes:
B12XE, B12XHT, D12XE, D12XHL, D12XHT, EB2ADT, EB2ADTD, EB2ADTM, EB2ADTS, EB2ADTX, EB2D, EB2DT, EB2DTM, EB2DTS, EB2DTSD, EB2DTSM, EB2F, EB2FA, B2FAD, EB2FD, F12XE, F12XHL, F12XHT, HMM, HMR, HMT, HMU, HMZ, HNE, HNK, HNM, HNN, HNP, HNS, HNV, HNW, HNX, HNY, HNZ, LEG, LES, LEZ

Camshaft Locking Tool, 1.2 L, PSA / Opel

- for 1.2 L PureTech / VTi / THP 3-cylinder petrol engines with split valve cover
- in Citroen Berlingo IV from 2018, C3 Aircross from 2016, C4 Cactus from 2014, C5 Aircross from 2019, C-Elysee from 2018 to 2020
- in DS3 from 2016, DS4 from 2014 to 2019, DS7 from 2018
- in Opel Combo-E from 2018, Corsa-F from 2019, Crossland X from 2017, Grandland X from 2017 to 2018
- in Peugeot 208 from 2014, 308 from 2014, 508 from 2019, 2008 from 2013, 3008 from 2014, 5008 from 2014, Partner from 2014, Rifter from 2018
- for timing belt replacement or engine repair

Item	Art. No.
Timing Tool Set, PSA / Opel	6505

for engine codes:
B12XHT, D12XHL, D12XHT, EB2ADT, EB2ADTD, EB2ADTS, EB2ADTX, EB2DT, EB2DTM, EB2DTS, EB2DTSD, EB2DTSM, EB2F, EB2FA, EB2FAD, EB2FD, F12XHT, HMM, HMU, HNK, HNN, HNP, HNS, HNV, HNW, HNX, HNY, HNZ, LEG, LES, LEZ

Timing Belt Checking Gauge, PSA / Opel

- for 1.0 and 1.2 L petrol engines
- also for identically constructed engines from Opel and Toyota
- to check the timing belt for changes caused by the oil bath
- according to the manufacturer's specifications, this check must be carried out at every customer service
- in Citroen Berlingo, C1, C3, C3 Aircross, C4, C4 Cactus, C4 Picasso, C4 Space Tourer, C-Elysee
- in DS Automobiles DS3, DS3 Cabrio and DS4
- in Opel Combo E, Corsa F, Crossland X and Grandland X
- in Peugeot 108, 208, 308, 2008, 3008, 5008, Partner and Rifter
- in Toyota Aygo

Item	OEM Comparison No.	Art. No.
Timing Belt Checking Gauge	1643190080, 01096, EN52809	6503

for engine codes:
1PP, B12XHT, D12XHL, D12XHT, EB0, EB0F, EB2, EB2ADT, EB2ADTD, EB2ADTS, EB2ADTSM, EB2ADTX, EB2ADTXM, EB2D, EB2DT, EB2DTM, EB2DTS, EB2DTSD, EB2DTSM, EB2F, EB2FA, EB2FAD, EB2FB, EB2FD, EB2M, F12XHL, F12XHT, HM01, HMH, HMM, HMP, HMR, HMT, HMU, HMV, HMW, HMX, HMY, HMZ, HNJ, HNK, HNL, HNN, HNP, HNS, HNT, HNV, HNW, HNX, HNY, HNZ, LEG, LES, LEZ, ZMZ

Timing Tool Set, PSA 3.0L V6

- also suitable for identically constructed engines from Fiat, Lancia and Renault
- for 3.0L V6 petrol engines with 24 valves
- in Citroen C5 I / II / III, C6, C8, Xantia I / II and XM
- in Peugeot 406, 605, 607 and 807
- in Renault Avantime, Clio II, Espace III, Laguna I / II and Safrane II
- in Fiat Ulysse
- in Lancia Phedra
- for locking the camshafts and crankshaft
- for positioning the tensioner device
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Counterholder	0187C / 0187F / MOT1428	*6530-01*
Camshaft Timing Pin Gauge	0187CZ / MOT143001	*6530-02*
Camshaft and Crankshaft Locking Pin	0187A / 0187B / MOT1430 / 1870893000 / 607589011500	*6530-06*
Tensioner Screw, M8x35 mm		*6530-03*
Tensioning Tool	0187E / MOT1429	*6530-04*
Tensioner Screw, M8x70 mm		*6530-05*
Timing Belt Bracket	0132AK / 0153AK / 0187J / 0188K / 0189K / 4533TAD / MOT1436 / 1870900100	*3521-14*

Item	Art. No.
Timing Tool Set, PSA 3.0L V6	36530

for engine codes:
ES9A, ES9J4, ES9J4S, L7X700, L7X701, L7X713, L7X720, L7X721, L7X727, L7X731, L7X760, L7X762, XFU, XFV, XFW, XFX, XFZ

Timing Tool Set, PSA

- also for identically constructed engines from Fiat, Opel and Renault
- for 2.5 and 2.8 L diesel engines (not common rail)
- in Fiat / Iveco Ducato, Daily and Turbo Daily
- in PSA Jumper, Relais and Boxer
- in Renault Trafic and Master
- in Opel Arena and Movano
- for locking the camshafts and crankshaft
- for locking the injection pump

Content	OEM Comparison No.	Art. No.
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*
Tensioner Locking Bracket	1860638000 / 0191H	*6410-02*
Locking Pin	MOT1054 / MOT861 / MOT863 / KM6031 / 99395214	*3522-14*

Item	Art. No.
Timing Tool Set, PSA/Fiat/Renault 2.5/2.8 diesel	6410

for engine codes:
S8U, S9W, S9U, 814467, 814027, 814047R, 814421, 814497Y, 814043, 814063, 814043S

Timing Tool Set, PSA

- also for identically constructed engines from Fiat, Mitsubishi, Opel and Toyota
- for 2.0 and 2.2L DW10 / DW12 diesel engines with twin camshafts
- in Citroen Berlingo (I/II), C4 (I/II), C5 (I/II/III), C6, C8, C-Crosser, Dispatch/Jumpy (I/II/III/IV), DS4, DS5, Picasso, Relay/Jumper (I/II/III), SpaceTourer and Xsara (I/II)
- in Peugeot 206, 306, 307, 308, 406, 407, 508, 607, 807, 3008, 4007, 5008, Boxer III, Expert (I/II/III/IV), Partner (I/II), RCZ and Traveller
- in Fiat Ducato (II/III/IV), Scudo (I/II) and Ulysse
- in Mitsubishi Outlander
- in Opel Vivaro C and Grandland X (A18)
- in Toyota Proace (I/II)
- for timing belt / timing chain replacement or engine repair

for engine codes:
4HA, 4HB, 4HC, 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, 4WZFHV, 4WZFTV, AHH, AHJ, AHK, AHM, AHN, AHP, AHR, AHS, AHT, AHV, AHW, AHX, AHY, AHZ, DW10ATED, DW10ATEDL3, DW10ATED4, DW10ATED4L4, DW10BTED, DW10BTEL3, DW10BTED4, DW10C, DW10CD, DW10CE, DW10CTED4, DW10FC, DW10FD, DW10FE, DW10FUC, DW10FUD, DW10FUE, DW10JATED4, DW10TD, DW10UTD, DW10UTED4, DW12ATED, DW12BTED4, DW12CTED4, DW12MTED4, DW12RUC, DW12RUD, DW12RUE, DW12TED4, DW12TED4L4, DW12UTED, EHZ, RH02, RHB, RHC, RHD, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ

Content	OEM Comparison No.	Art. No.
Flywheel Locking Tool	0153N / 0188D / 0288D / 0188Y / 7099TM	*3521-22*
Crankshaft Locking Tool	0188AH	*6520-05*
Timing Belt Tensioner Locking Pin	0153AL / 4200TA	*6522-02*
Auxiliary Belt Tensioner Locking Bolt	0188Q2	*6522-04*
Crankshaft Locking Tool	0188X / 3031059 / 3031270 / 9997121	*3521-01*
Auxiliary Belt Tensioner Locking Bolt	0188Q1	*6522-01*
Timing Belt Bracket	0132AK / 0153AK / 0187J / 0188K / 0189K / 4533TAD / MOT1436 / 1870900100	*3521-14*
Tensioner Wrench	0188J2	*3521-08*
Belt Pulley Puller	0188P / 7015T	*3521-20*
Timing Belt Clamp	0188AD	*6522-03*
Camshaft Locking Bolt	0188M	*6520-07*
Flywheel Locking Tool	7044T / 9004T / 0134Q / 0153A / 0153AF / 0188F	*3521-16*

Item	Art. No.
Timing Tool Set, PSA	36522

Timing Tool Set, PSA

- for petrol and diesel engines
- also for identically constructed engines from Fiat, Ford, Nissan, Renault, Rover and Toyota
- in Citroen AX, BX, ZX, XM, Saxo, Xsara, Xantia, Synergie, Evasion, Berlingo, Dispatch, Jumpy, C2, C3, C15, Relay, Jumper, C5 and C8
- in Peugeot 106, 205, 206, 305, 306, 307, 309, 405, 406, 407, 605, 806, 807, Express, Expert, Partner, Boxer, 406 Coupe and 607

for engine codes:
TUD3, K9A, TUD5, VJY, VJZ, VJX, XUD7, A9A, XUD7TE, XUD9AY, DJY, XUD9A, XUD9AU, D9B, XUD9TE, XUD9TFY, DHX, XUD9TFL, D8B, XUD9UTF, D8C, XUD9BTF, DW8B, WJY, DW8, WJZ, XUD11A, XUD11ATE, XUD11BTE, P8A, P8B, P9A, PHZ, DKATE, THY, DJ5, T9A, DJ5T, T8A, THZ, DJ5TED, THX, DV4TD, 8HX, DW10TD, DW10ATED, RHS, RHV, RHW, RHX, RHY, RHZ, DW12ATED, DW12UTED, 4HX, 4HY, TU9, TU1, TU3, TU5JP, CDY, CDZ, HDY, KDX, KDY, KFW, KFX, KFZ, NFZ, NFV, XU5, BDY, BDZ, BFZ, XU7, L6A, LFX, LFZ, XU9, D6A, D6B, D6D, DDZ, DKZ, DFZ, XU10J2, RFL, RFU, RGX, RGY, RFZ, RFX, RFW, RDZ, XU7JP4, LFY, EW7J4, 6FZ, XU10J4, RFS, RFT, RFY, RFV, EW10J4, RFN, EW10J4D, EW12J4, 3FZ, DV6TED4, DW10ATED4, DW10BTED, DW10UTD, RHT, 4HZ, 4HW, NFT, NFW, NFY, TU5J4, TU5L3, NFX, NFU, EW7JP4, RFR

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	0188X / 3031059 / 3031270 / 9997121	*3521-01*
Timing Wrench	7017TW	*3521-02*
Crankshaft Locking Tool	7017TR	*3521-03*
Crankshaft Locking Tool	18G1632	*3521-04*
Tensioning Tool	4507TJ / 976789 / 0132X	*3521-05*
Camshaft Locking Pin	0132RZ / 4507TB	*3521-06*
Tensioner Wrench	0188J1	*3521-07*
Tensioner Wrench	0188J2	*3521-08*
Flywheel Locking Tool	4507TA / 0132Q / 0132QZ / 9767 / 27	*3521-09*
Flywheel Locking Tool	4507TL / 0132P	*3521-10*
Flywheel Locking Tool	6012T / 9022TM / 9765/54 / 0153A / 1860161000 / 1867030000 / 607589014000 / MOT582-01	*3521-11*
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*
Locking Pin	7014TM / 0153M / 9767 / 94	*3521-13*
Timing Belt Bracket	0132AK / 0153AK / 0187J / 0188K / 0189K / 4533TAD / MOT1436 / 1870900100	*3521-14*
Flywheel Locking Tool	0189C	*3521-15*
Flywheel Locking Tool	7044T / 9004T / 0134Q / 0153A / 0153AF / 0188F	*3521-16*
Camshaft / Fuel Injection Pump Locking Tool	4533TAC1 / 0132AJ1 / 0153G	*3521-17*
Locking Tool, M8x70 mm	0188E	*3521-18*

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	0189L	*3521-19*
Belt Pulley Puller	0188P / 7015T	*3521-20*
Locking Pins	9041TZ / 0153AB	*3521-21*
Flywheel Locking Tool	0153N / 0188D / 0288D / 0188Y / 7099TM	*3521-22*
Camshaft Locking Tool	0189A / 1871008100	*3521-23*
Camshaft Locking Tool	0189AZ	*3521-24*
Camshaft Locking Tool	0189B / 0187B / MOT1430 / 21263 / 0194B / 9997122 / 0188M / 3031277 / 0132AJ1 / 303735 / 49JE02021 / 0991958120	*3521-25*
Locking Pin	0188M / 0132AJ2 / 4533TAC2 / 4533TAC / 2000023200	*3521-26*
Flywheel Locking Tool	4527TS2 / 0132AB	*3521-28*
Crankshaft / Fuel Injection Locking Tool	0178C / 5711TC	*3521-29*

Item	Art. No.
Timing Tool Set, PSA	3521

Crankshaft Locking Pin, Citroen / Peugeot

- accessory for e.g. No. 3521
- for Citroen / Peugeot 16V twin camshaft petrol engines

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Pin	0189R / 1871007800	6521

for engine codes:
EW7J4, EW10J4, EW10J4S, EW10DHPI, EW12J4

Crankshaft Locking Tool, Renault / Nissan

- for 1.4, 1.6, 2.0, 2.3, 2.5 and 3.5 L patrol engines with twin camshafts
- in Renault Clio, Espace/Grand Espace IV/V, Fluence, Koleos, Laguna, Latitude, Master III, Megane, Scenic, Grand Scenic, Trafic II and Vel Satis
- in Nissan NP300 Navara, NV400, Primastar, Qashqai I/II and X-Trail
- for locking the crankshaft when loosening the crankshaft pulley
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	MOT2019, MOT1789	*36714-01*
Crankshaft Locking Tool	MOT91902	*36714-02*
Crankshaft Locking Tool	MOT1431	*36714-03*
Oil Pan Separating Tool	MOT1716	*36714-04*

Item	Art. No.
Crankshaft Locking Tool, Renault / Nissan	36714

for engine codes:
2TR700, 2TR702, 2TR703, 2TR704, 2TR705, 2ZV604, H4Jt700, M4R700, M4R701, M4R704, M4R711, M4R713, M4R714, M4R726, M4R730, M4R735, M4R737, M4R746, M4R750, M4R751, M4R752, M4R753, M5M400, M5M450, M9R610, M9R613, M9R615, M9R630, M9R692, M9R700, M9R721, M9R722, M9R724, M9R740, M9R742, M9R744, M9R746, M9R748, M9R750, M9R754, M9R756, M9R760, M9R761, M9R762, M9R763, M9R780, M9R782, M9R784, M9R786, M9R788, M9R800, M9R802, M9R803, M9R804, M9R805, M9R806, M9R808, M9R809, M9R811, M9R812, M9R814, M9R815, M9R816, M9R817, M9R820, M9R824, M9R828, M9R830, M9R832, M9R833, M9R834, M9R835, M9R836, M9R838, M9R839, M9R844, M9R845, M9R846, M9R849, M9R854, M9R855, M9R856, M9R857, M9R858, M9R859, M9R866, M9T670, M9T672, M9T676, M9T678, M9T680, M9T686, M9T690, M9T692, M9T694, M9T696, M9T698, M9T700, M9T702, M9T706, M9T708, M9T870, M9T880, M9T890, M9T896, M9T898, V4Y701, V4Y711, V4Y713, V4Y715, VQ25, YS23DDT, YS23DDTT

for engine codes:
281910, 281920, H4B, H4B408, H4B453, H4BT400, H4BT401, H4BT408, H4BT410, H4BT411, H4BT451, H4D, H4D4, H4D400, H5F408, H5F410, H5FT400, H5FT402, H5FT403, H5FT404, H5FT405, H5FT408, H5FT410, H5FT412, HR09DET, HRA2DDT

Crankshaft Locking Tool, Dacia / Nissan / Renault / Smart

- for 0.9, 1.0 and 1.2 L petrol engines with 3- and 4 cylinders
- in Dacia Dokker, Duster, Lodgy, Sandero, Logan and Logan MCV
- in Nissan Micra (K14), Qashqai (J11), Juke (F15) and Pulsar (C13)
- in Renault Captur, Clio IV, Kadjar, Kangoo II, Megane III/IV, Scenic/Grand Scenic III/IV and Twingo III
- in Smart Fortwo and Forfour
- for locking the crankshaft when loosening the belt pulley
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Tool	MOT2006, MOT2025, MOT2054, 281589004000	6713

Timing Tool Set, Renault

for engine codes:
D4F, D4FT, F2N, F3P, F3R, F3RJ, F3RK, F4P, F4R, F4RT, K4J, K4M

- for Renault 1.2 / 1.4 / 1.6 / 1.8 / 2.0 16V petrol engines
- also suitable for identically constructed engines from Dacia, Nissan and Opel
- in Renault Avantime, Clio II/III/IV/Campus/Collection/Storia/Symbol, Espace/Grand Espace, Fluence, Kangoo I/II/Be Bop/Grand Kangoo II, Laguna I/II/III, Megane I/II/III/Scenic, Modus/Grand Modus I/II, Scenic RX4/Grand Scenic II/III/XMOD, Symbol, Thalia, Trafic II, Twingo I/II, Vel Satis and Wind
- in Dacia Duster, Logan MCV/Van/Express/Pick-up and Sandero
- in Nissan Primastar and Kubistar
- in Opel Vivaro
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Rule	MOT1496	*3522-06*
Flywheel Locking Tool	MOT58201 / 1860703000	*3526-06*
Screw, M6 x 45 mm		*6710-01*
Screw, M8 x 70 mm		*6710-02*
Locking Pin, angled	MOT861	*6710-04*
Camshaft Locking Tool	MOT1750	6712
Assembly Wrench		*6710-06*
Locking Pin	MOT1054 / MOT861 / MOT863 / KM6031 / 99395214	*3522-14*
Locking Pin	MOT1489 / 607589001500	*3522-16*
Camshaft Sprocket Locking Tool	MOT159001 / MOT1801	5619
Camshaft Sprocket Locking Tool	MOT149001	6711

Item	Art. No.
Timing Tool Set, Renault	36710SP

Timing Tool Set, Renault

for engine codes:
D4F, D4FT, F2N, F3P, F3R, F3RJ, F3RK, F4P

- for Renault 1.2 / 1.4 / 1.6 / 1.8 / 2.0 16V petrol engines
- also suitable for identically constructed engines from Dacia, Nissan and Opel
- in Renault Avantime, Clio II/III/IV/Campus/Collection/Storia/Symbol, Espace/Grand Espace, Fluence, Kangoo I/II/Be Bop/Grand Kangoo II, Laguna I/II/III, Megane I/II/III/Scenic, Modus/Grand Modus I/II, Scenic RX4/Grand Scenic II/III/XMOD, Symbol, Thalia, Trafic II, Twingo I/II, Vel Satis and Wind
- in Dacia Duster, Logan MCV/Van/Express/Pick-up and Sandero
- in Nissan Primastar and Kubistar
- in Opel Vivaro
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Rule	MOT1496	*3522-06*
Flywheel Locking Tool	MOT58201 / 1860703000	*3526-06*
Screw, M6 x 45 mm		*6710-01*
Screw, M8 x 70 mm		*6710-02*
Locking Pin, angled	MOT861	*6710-04*
Camshaft Locking Tool	MOT1750	6712
Assembly Wrench		*6710-06*
Locking Pin	MOT1054 / MOT861 / MOT863 / KM6031 / 99395214	*3522-14*
Locking Pin	MOT1489 / 607589001500	*3522-16*

Item	Art. No.
Timing Tool Set, Renault	36710

Camshaft Sprocket Locking Tool, Renault

- also for identically constructed engines from Nissan and Opel
- for 1.8 16V and 2.0 turbo petrol engines
- accessory for e.g. No. 3522
- for locking the camshaft
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Sprocket Locking Tool	MOT159001 / MOT1801	5619

for engine codes:
F4R, F4RT

Camshaft Sprocket Locking Tool, Renault

- also for identically constructed engines from Nissan
- for 1.6 L 16V petrol engines
- in Renault Clio, Clio Sport, Megane, Scenic, Laguna and Espace
- in Nissan Primastar and Kubistar
- for locking the camshaft
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Sprocket Locking Tool	MOT149001	6711

for engine codes:
K4M700, K4M701, K4M720, K4M724, K4M748

Camshaft Locking Tool, Renault

- also for identically constructed engines from Nissan and Dacia
- for 1.6 L 16V petrol engines from 2003 onwards
- accessory for e.g. Nr. 3522
- for locking the camshaft
- for timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Camshaft Locking Tool	MOT1750	6712

for engine codes:
K4M(2003-)

Guide Pulley Wrench, Renault / Dacia, tx-star T50

- for use on the guide pulley screw
- in Renault Clio, Espace, Kangoo, Megane, Scenic and Grand Scenic

Item	Profile	Size	Drive	OEM Comparison No.	Art. No.
Guide Pulley Wrench	TX-Star T	T50	1/2"	MOT1368	6768

for engine codes:
D4F, K4J, K4M, G9T

Timing Tool Set, Renault

- for 1.2, 1.4 and 1.6L petrol engines
- in Renault Clio II / III, Kangoo I / II, Logan, Megane, Modus, Thalia, Twingo I / II and Wind
- in Nissan Kubistar
- in Proton Savvy
- in Dacia Logan
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Mechanical Tensioner Tool	MOT1501	*6705-01*
Tensioning Tool	MOT113501 / MOT1135	*3522-03*
Tensioning Tool	MOT1386	*3522-08*
Locking Pin	MOT1489 / 607589001500	*3522-16*
Locking Pin	MOT1054 / MOT861 / MOT863 / KM6031 / 99395214	*3522-14*

Item	Art. No.
Timing Tool Set, Renault	36705

for engine codes:
D4F, D4F702, D4F704, D4F706, D4F708, D4F712, D4F714, D4F716, D4F722, D4F728, D4F730, D4F740, D4F742, D4F764, D4F772, D4F774, D4FT780, D4FT782, D4FT784, D4FT786, D7F702, D7F703, D7F704, D7F706, D7F708, D7F710, D7F720, D7F722, D7F726, D7F744, D7F746, D7F764, D7F766, D7F800, D7FB700, D7FC701, E7J626, E7J634, E7J635, E7J780, K7J710, K7M710, K7M744, K7M745, K7M746, K7M850

Timing Tool Set, Renault

- also for identically constructed engines from Ford and Volvo
- for Renault 2.0L 16V and 2.5L 20V engines, e.g. Laguna and Safrane
- for Volvo 1.8L 16V, 1.9L T4 and 2.0L 16V engines, e.g. 850, C70, S40, V40, S60, S70 and S80
- for Ford 2.5L Duratec engines, e.g. Focus, Galaxy, Kuga, Mondeo and S-Max

Content	OEM Comparison No.	Art. No.
Camshaft Locking Rule	MOT1337 / 9995452 / 3031178	*3522-05*
Flywheel Locking Pin	MOT1340 / 9995451	*3522-07*
Tensioning Tool	MOT1348	*3522-01*

Item	Art. No.
Timing Tool Set, Renault	36703

for engine codes:
N7Q, N7U, JZDA, HUBA, HUWA, HYDA, HYDB, HYDC, B4164, B4184, B4194, B4204, B5202, B5204, B5234, B5244, B5252, B5254

Timing Tool Set, Renault Common-Rail

- also suitable for identically constructed engines from Dacia, Mitsubishi, Nissan, Opel and Suzuki
- for 1.5, 1.9, 2.2 and 2.5 L Common-Rail diesel engines
- in Renault Captur, Clio I/II/III/IV / Campus / Collection / Storia / Symbol, Espace/Grand Espace IV, Fluence, Kangoo I/II/Be Bop, Grand Kangoo II, Laguna I/II/III, Latitude, Master II, Megane I/II/III, Megane Scenic, Modus, Grand Modus II, Scenic, Grand Scenic II/III, Thalia, Trafic II, Twingo II and Vel Satis
- in Dacia Dokker, Duster, Lodgy, Logan / MCV / Pick-Up / Van / Express and Sandero I/II
- in Mitsubishi Carisma and Space Star
- in Nissan Almera, Cube, Evalia,Interstar, Juke, Kubistar, Micra, Note, NV200, Primastar, Primera, Pulsar, Qashqai I/II and Tiida
- in Opel Movano and Vivaro
- in Suzuki Grand Vitara and Jimny
- for locking the camshaft and crankshaft
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool, inlet	MOT1534 / KM6205	*3527-09*
Camshaft Locking Tool, outlet	MOT1537 / KM6204	*3527-08*
High Pressure Pump Sprocket Locking Pin	MOT1538	*3527-06*
High Pressure Pump Sprocket Locking Pin	MOT1536 / KM6203	*3527-07*
Locking Pin	MOT1054 / MOT861 / MOT863 / KM6031 / 99395214	*3522-14*
Locking Pin	MOT1489 / 607589001500	*3522-16*
Pretensioning Tool	MOT1543	*3527-05*
Tensioner Cover	MOT1705	*3527-10*
Fixing Screw		*3527-02*

Item	Art. No.
Timing Tool Set, Renault Common-Rail	36727

for engine codes:
F8Q, F9Q, G9T, G9U, K9K, F8Q600, F8Q606, F8Q610, F8Q620, F8Q622, F8Q624, F8Q630, F8Q632, F8Q644, F8Q646, F8Q648, F8Q662, F8Q672, F8Q676, F8Q678, F8Q680, F8Q682, F8Q684, F8Q692, F8Q696, F8Q706, F8Q710, F8Q714, F8Q722, F8Q724, F8Q730, F8Q732, F8Q740, F8Q742, F8Q744, F8Q764, F8Q768, F8Q776, F8Q784, F8Q786, F8Q788, F8Q790, F8QA706, F8QB640, F9Q650, F9Q660, F9Q664, F9Q670, F9Q674, F9Q680, F9Q690, F9Q710, F9Q716, F9Q717, F9Q718, F9Q720, F9Q722, F9Q730, F9Q731, F9Q732, F9Q733, F9Q734, F9Q736, F9Q740, F9Q744, F9Q748, F9Q750, F9Q751, F9Q752, F9Q754, F9Q755, F9Q758, F9Q759, F9Q760, F9Q762, F9Q770, F9Q772, F9Q774, F9Q780, F9Q782, F9Q790, F9Q800, F9Q803, F9Q804, F9Q808, F9Q812, F9Q814, F9Q816, F9Q818, F9Q820, F9Q826, F9Q870, F9Q872, F9QB2, G9T600, G9T605, G9T606, G9T607, G9T642, G9T645, G9T700, G9T702, G9T703, G9T706, G9T707, G9T710, G9T720, G9T722, G9T742, G9T743, G9T744, G9T750, G9U630, G9U632, G9U650, G9U720, G9U724, G9U726, G9U730, G9U750, G9U754, K9K262, K9K266, K9K276, K9K299, K9K400, K9K500, K9K608, K9K609, K9K612, K9K626, K9K628, K9K629, K9K636, K9K638, K9K639, K9K646, K9K647, K9K656, K9K657, K9K658, K9K666, K9K667, K9K676, K9K677, K9K700, K9K702, K9K704, K9K706, K9K710, K9K712, K9K714, K9K716, K9K718, K9K722, K9K724, K9K728, K9K729, K9K732, K9K734, K9K740, K9K750, K9K752, K9K760, K9K762, K9K764, K9K766, K9K768, K9K770, K9K772, K9K774, K9K780, K9K782, K9K790, K9K792, K9K794, K9K796, K9K800, K9K802, K9K804, K9K806, K9K808, K9K812, K9K816, K9K820, K9K826, K9K830, K9K832, K9K834, K9K836, K9K837, K9K838, K9K842, K9K846, K9K856, K9K858, K9K872, K9K884, K9K892, K9K894, K9K896, K9K898

Timing Tool Set, Renault

- for 1.6, 2.0 and 2.3 L diesel engines with timing chain
- also for identically constructed engines from Mercedes, Nissan and Opel
- in Renault Espace IV/V, Grand Espace IV, Fluence, Koleos, Laguna II/III, Latitude, Master III, Megane II/III, Scenic II/III, Grand Scenic II/III and Trafic II/III
- in Mercedes C-class, GLC and Vito models C253, S205, W205, W447 and X253
- in Nissan NV400, Primastar, Qashqai I/II and X-Trail
- in Opel Movano II and Vivaro I/II
- for locking the camshaft and crankshaft
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Crankshaft Counter Holder	EN48334 / KM9561 / MOT1770 / 626589024000	*6720-01*
Crankshaft Locking Pin	EN48330 / MOT1766	*6720-02*
Tensioner Wrench		*6720-03*
Camshaft Locking Tool	EN48332 / MOT1769 / MOT1969 / 626589044000	*6720-04*
Fixing Screw		*6720-06*
Locking Pin, 3 mm	995305010	*6720-07*
Camshaft Alignment Tool	EN48331 / MOT1773	*6720-08*
Crankshaft Locking Pin	MOT1970 / 626589001500	*6720-09*
Tensioner Locking Pin	KM6130 / EN9552	*6300-09*

Item	Art. No.
Timing Tool Set, Renault	36720

for engine codes:
622951, 626951, M9R, M9T, OM622, OM626, R9M

Timing Tool Set, Renault

- also for identically constructed engines from Opel and Volvo
- in Renault Clio, Clio Sport, Twingo, Kangoo, Megane, Scenic, Laguna, Espace, Safrane, Spider, R19, Master and Traffic
- in Opel Arena and Movano
- in Volvo 440, 460, 480, S40 and V40
- for timing belt replacement and engine repair

Content	OEM Comparison No.	Art. No.
Tensioning Tool	MOT1348	*3522-01*
Tensioning Tool	MOT1312	*3522-02*
Tensioning Tool	MOT113501 / MOT1135	*3522-03*
Tensioning Tool	MOT1384	*3522-04*
Camshaft Locking Rule	MOT1337 / 9995452 / 3031178	*3522-05*
Camshaft Locking Rule	MOT1496	*3522-06*
Flywheel Locking Pin	MOT1340 / 9995451	*3522-07*
Tensioning Tool	MOT1386	*3522-08*
Camshaft Sprocket Locking Tool	MOT149001	6711
Screw M6 x 30 mm		*3522-10*
Screw M8 x 70 mm		*3522-11*
Locking Pins	MOT910 / KM966	*3522-12*
Locking Pin	MOT1054 / MOT861 / MOT863 / KM6031 / 99395214	*3522-14*
Locking Pin	MOT1318	*3522-15*
Locking Pin	MOT1489 / 607589001500	*3522-16*

Item	Art. No.
Timing Tool Set, Renault	3522

accessory

Item	Art. No.
Camshaft Locking Tool, Renault 1.6 16V K4M after 2003	6712

for engine codes:
B16, B18, B20, N7Q, N7U, K4J, K4M, F4P, F4R, D7F, E5F, E7F, E7J, K7M, F1N, F3N, F3P, F2R, F3R, F7P, F7R, J5R, J7R, J5T, F8M, F8Q, G8T, J8S, F9Q, S8U, S9U, S9W

Timing Tool Set, Renault 1.5L

- also for identically constructed engines from Dacia, Mercedes, Nissan and Suzuki
- for 1.5L diesel engines
- in Renault Captur, Clio II / III, Kadjar, Kangoo, Laguna III, Megane II / III, Scenic III and Twingo II
- in Dacia Duster and Logan
- in Mercedes A- and B-class, CLA, GLA and Citan
- in Nissan Almera II, Cube, Juke, Kubistar, Micra III, Note, Pulsar, Qashqai I / II and NV200
- in Suzuki Jimny
- for locking the camshafts and crankshaft
- for positioning the timing belt tensioner
- for timing belt replacement or engine repair

for engine codes:
K9K262, K9K266, K9K276, K9K292, K9K299, K9K430, K9K608, K9K609, K9K612, K9K636, K9K700, K9K702, K9K704, K9K706, K9K708, K9K710, K9K712, K9K714, K9K716, K9K718, K9K722, K9K724, K9K728, K9K729, K9K732, K9K734, K9K740, K9K750, K9K752, K9K760, K9K762, K9K764, K9K766, K9K768, K9K770, K9K772, K9K774, K9K780, K9K782, K9K790, K9K792, K9K794, K9K796, K9K800, K9K802, K9K804, K9K806, K9K808, K9K812, K9K816, K9K820, K9K830, K9K832, K9K834, K9K836, K9K837, K9K838, K9K842, K9K884, K9K892, K9K894, K9K896, K9K898, 607951

Content	OEM Comparison No.	Art. No.
Locking Pin	MOT1489 / 607589001500	*3522-16*
Locking Pin	MOT1054 / MOT861 / MOT863 / KM6031 / 99395214	*3522-14*
Camshaft and Crankshaft Locking Pin	0187A / 0187B / MOT1430 / 1870893000 / 607589011500	*6733-01*

Item	Art. No.
Timing Tool Set, Renault 1.5L	6733

accessory

Item	Art. No.
Crankshaft Locking Tool, Mercedes	6887

Timing Tool Set, Hyundai / Kia

- for 1.1, 1.4, 1.5, 1.6 and 1.7L Common-Rail diesel engines from 2004 onwards
- in Hyundai Accent, Elantra, i20, i20 Active, i20 Coupe, ix20, i30, ix35, i40, Matrix and Tucson
- in Kia Carens, Cee´d, ProCee´d, Cerato, Optima, Picanto, Rio, Soul, Sportage and Venga
- for locking the tensioning devices and the crankshaft
- for dismantling the high-pressure pump sprocket
- for timing chain replacement or engine repair

for engine codes:
D3FA, D4FA, D4FAH, D4FAL, D4FB, D4FBH, D4FBL, D4FC, D4FD, D4FDH, D4FDL

Content	OEM Comparison No.	Art. No.
High Pressure Pump Sprocket Puller	093312A000, 093312A010	*36901-01*
Tensioner Locking Pin		*36901-02*
Flywheel Locking Tool	092312B100, 092313N100	6901

Item	Art. No.
Timing Tool Set, Hyundai / Kia	36901

Timing Tool Set, Mitsubishi

- also for identically constructed engines from Hyundai
- for 4- and 6- cylinder petrol engines with twin camshafts
- in Mitsubishi Colt, Lancer, Carisma, Galant, Sigma, Eclipse, 300DGT, Space Star, Space Star, Space Waggon, Outlander, Pajero, Montero, Challenger, Grandis and L200
- in Hyundai Lantra, Sonata, Trajet and Santa Fe
- for timing belt replacement or engine repair

for engine codes:
4G67, 4G93, 4G63, 4G94, 6A12, 4G64, 4G69, 6G73, 6A13, 6G72, 6G74, G4CP, G4N, G4R, G4P, 4JP, G4JS

Content	OEM Comparison No.	Art. No.
Locking Pin, 7.9 x 60 mm		*6900-01*
Tensioner Pulley Wrench	092428001 / MD998767	*6900-02*
Locking Pin for Tensioner Pulley		*6900-03*
Tensioning Screw for Timing Belt	092428000 / MD998738	*6900-04*

Item	Art. No.
Timing Tool Set, Mitsubishi/Hyundai	6900

Flywheel Locking Tool, Hyundai / Kia

- for 1.0, 1.1, 1.2, 1.25, 1.4, 1.5, 1.6, 1.7, 2.0, 2.2, 2.4 and 2.7 L petrol and diesel engines
- in Hyundai Accent, Elantra, Genesis Coupe, H1, H300, i10, i20, i20 Active, i20 Coupe, i30, i40, i800, iLoad, iMax, ix20, ix35, Kona, Matrix, Santa Fe, Grand Santa Fe, Solaris, Sonata, Sonica, Tiburon, Tucson and Veloster
- in Kia Carens, Cee'd, Pro-Cee'd, Cerato, Magentis, Optima, Picanto, Rio, Sedona, Sorento, Soul, Sportage, Stonic and Venga
- for locking the flywheel with the starter ring gear
- for counter holding when loosening the crankshaft bolt
- for timing chain or timing belt replacement or engine repair

Item	OEM Comparison No.	Art. No.
Flywheel Locking Tool, Hyundai / Kia	092312B100, 092313N100	6901

for engine codes:
B3LA, D3FA, D4FA, D4FB, D4FC, D4FD, D4HA, D4HB, D4UU, G3LA, G3LC, G4FA, G4FC, G4FD, G4FG, G4FJ, G4KD, G4KE, G4KF, G4KH, G4KJ, G4LA, G4LC, G4LD, G4NA, G4NC, G6BA

High Pressure Pump Sprocket Puller, Hyundai / Kia

- for 2.0 and 2.2 L diesel engines from 2009
- in Hyundai ix35, Santa Fe, Grand Santa Fe and Tucson
- in Kia Carnival, Sedona, Sorento and Sportage
- for dismantling the high pressure pump sprocket
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
High Pressure Pump Sprocket Puller, Hyundai / Kia	093311M100	6902

for engine codes:
D4HA, D4HAH, D4HAL, D4HB, D4HE

High Pressure Pump Sprocket Puller, Hyundai / Kia

- for 2.5 L diesel engines from 2002
- in Hyundai Grace, H1, H100, H200, H300, H350, i800, iLoad, Montana, Porter, Satellite and Starex
- in Kia Sorento
- for dismantling the high pressure pump sprocket
- for timing chain replacement or engine repair

Item	OEM Comparison No.	Art. No.
High Pressure Pump Sprocket Puller, Hyundai / Kia	093314A000	6903

for engine codes:
D4CB

Universal Kit for Diesel Injection Pumps

- for pumps from Bosch VE, Nippon-Denso, Kikki, Lucas and CAV Rotodiesel
- universal for almost all distributor injection pumps
- with angled adapter for hard to reach areas
- for setting fuel delivery
- dial gauge with range 0-8 mm, shaft 8 mm H6, tolerance 0.01 mm and outer-ø 42 mm
- e.g. for diesel engines from:
  Alfa Romeo, Audi, BMW, Citroën, Dacia, DAF, Daihatsu, Fiat, Ford, Isuzu, Iveco, Lancia, Landrover, Leyland, Mazda, Mitsubishi, Nissan, Opel, Peugeot, Renault, Rover, Seat, VW, Volvo

Content	OEM Comparison No.	Art. No.
Dial Gauge		1381
Dial Gauge Adapter		*3515-02*
Feeler 40 mm		*3515-09*
Feeler 100 mm		*3515-08*
Thread Adapter M8 / M12		*3515-03*
Adapter M8 x 90 mm		*3515-06*
Adapter M10 x 35 mm	3313 / VAS6079 / KM571A	*3515-05*
Adapter M8 x 35 mm	2066	*3515-04*
Feeler Pin with Internal Spring	9995382 (+ 3515-10)	*3515-07*
Angle Measuring Adapter	9995382 (+ 3515-07)	*3515-10*

Item	Art. No.
Universal Kit for Diesel Injection Pumps	36015

Dial Gauge Adapter Set, for diesel injection pumps

- for Audi / VW vehicles and many other manufacturers
- for setting fuel delivery

Content	OEM Comparison No.	Art. No.
Adapter M8 x 35 mm	2066	*3515-04*
Adapter M10 x 35 mm	3313 / VAS6079 / KM571A	*3515-05*
Thread Adapter M8 / M12		*3515-03*
Thread Adapter M10 / M12		*6015-01*
Feeler 40 mm		*3515-09*
Feeler 70 mm		*6015-02*

Item	Art. No.
Dial Gauge Adapter Set, 7 pcs., for diesel injection pumps	6015

accessory

Item	Art. No.
Dial Gauge, DIN 878, ø 42 mm, 8 mm shaft, H6	1381

Universal Camshaft Locking Tool, DOHC

- for petrol and diesel engines
- fit almost all spreads between camshaft sprockets
- with extension yoke
- for locking twin camshafts
- for timing belt replacement or engine repair

Item	Art. No.
Universal Camshaft Locking Tool	6099

Top Dead Center Locater, petrol and diesel engines

- with 8, 10, 12, 14 and 18 mm thread adapters
- universal for almost all engines
- for locating the top dead center
- with extention piece for deep seated plugs
- includes magnetic holder for e.g. engine bonnet
- for timing belt and timing chain replacement or engine repair

Item	for Manufacturer	Art. No.
Top Dead Center Locater	universal	3888

Tensioning Gauge for Cam Belts

- solid metal construction
- compact design for hard to reach areas
- dual scale for easy reading
- controlled adjustment of tension

Item	OEM Comparison No.	Art. No.
Tensioning Gauge for Cam Belts	VW210 / U-10028	5310

Flat and V-Belts

V-Ribbed Belt Tensioner Wrench, Audi / VW 1.4 TSI / TFSI

- for operating automatic belt tensioners on 1.4 L petrol engines with direct injection and turbo-charger
- also suitable for the tensioner in the T5 with 2.0 L petrol engine
- offset head design for easy access in tight engine compartments
- in Audi A1 and A1 Sportsback
- in Seat Alhambra, Ibiza IV and Toledo IV
- in Skoda Fabia II, Octavia II, Rapid and Yeti
- in VW Beetle, CC, Eos, Golf V/VI/Plus, Jetta III/IV, Passat, Polo, Scirocco II, Sharan, Tiguan, Touran and Transporter T5
- for v-belt replacement or engine repair

for engine codes:
AXA, BLG, BMG, BMY, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CDGA, CKMA, CNUB, CNWA, CNWB, CRJA, CTHA, CTHB, CTHC, CTHD, CTHE, CTHF, CTHG, CTJA, CTJB, CTJC, CTKA

Item	OEM Comparison No.	Length	Jaw Width	Art. No.
Ribbed Belt Tensioner Wrench	T10241 / T10447	390 mm	16 mm	6604

Ribbed Belt Tensioner Wrench

- for cars from Audi, Skoda, Seat and VW
- for operating automatic belt tensioners when replacing ribbed belts
- reversible head piece

Item	OEM Comparison No.	Art. No.
Ribbed Belt Tensioner Wrench	3299 / U40010	5489

Serpentine Belt Wrench for Alternator

- for cars from Audi, Skoda, Seat and VW
- for engines without separate tensioner
- for tensioning ribbed belts over the alternator

Item	OEM Comparison No.	Art. No.
Serpentine Belt Wrench	3297 / U40050	5474

Water Pump Belt Pulley Holding Wrench

- for cars from Audi, Skoda, Seat and VW
- required when working on the water pump

Item	for Manufacturer	Art. No.
Holding Wrench	Audi, Seat, Skoda, Volkswagen	5486

Water Pump Belt Pulley Holding Wrench

- for cars from Audi, Skoda, Seat and VW
- required when working on the water pump

Item	for Manufacturer	Art. No.
Holding Wrench	Audi, Seat, Skoda, Volkswagen	5487

Special Socket Spanner for Thermostat, VAG

- in 1.0, 1.2, 1.4, 1.5L FSI / TFSI and 1.6L TDI engines
- for almost all vehicles from Audi, Seat, Skoda and VW
- for disassembly / assembly of the water pump thermostat
- for work on the coolant circuit or engine repair

Item	Drive	OEM Comparison No.	Art. No.
Special Socket Spanner	3/8"	T10508	6671

Assembly Tool for Water Pump Stretch Belt, Citroen / Peugeot / Opel

- for 1.0 Vti and 1.2 L PureTech/Vti/THP 3-cylinder petrol engines from 2012 onwards
- for damage-free mounting of the belt over the water pump pulley
- required for water pumps with plastic pulleys
- in Peugeot 108, 208, 301, 308, 2008, 3008, 3008 II, 5008 and 5008 II
- in Citroen Berlingo III / IV, C1 II, C3 III / IV / Aircross / Picasso, C4 II / Cactus / Picasso / Grand Picasso II / SpaceTourer / Grand SpaceTourer, C5 Aircross and C-Elysee
- in DS 3, 3 II, 3 Cabrio, 3 Crossback, 4, 4 II, 4 Crossback and 7 Crossback
- in Opel Astra L, Combo (X19), Corsa F, Crossland, Crossland X, Grandland X and Mokka
- in Toyota Aygo and Proace City

for engine codes:
03S, B12XE, B12XHL, B12XHT, D12XE, D12XHL, D12XHT, EB0, EB0F, EB2, EB2ADT, EB2ADTD, EB2ADTDS, EB2ADTS, EB2ADTX, EB2DT, EB2DTM, EB2DTS, EB2DTSM, EB2F, EB2FA, EB2FAD, EB2FB, EB2M, F12XE, F12XHL, F12XHT, HMH, HMM, HMP, HMR, HMT, HMV, HMW, HMX, HMY, HMZ, HNE, HNK, HNN, HNP, HNS, HNV, HNW, HNY, HNZ, LEG, LES, LEZ, ZMZ

Item	OEM Comparison No.	Art. No.
Assembly Tool for Water Pump Stretch Belt	I01091 / I01091B / EN52112 / EN521121	6070

Ribbed Belt Fitting Tool Set, 11 pcs.

- The missing tensioner makes it difficult to release tension from the belt. This tool set allows professional removal and assembly while avoiding damage caused to the new belt or crankshaft pulley.
- for vehicles with belt drive without tensioner
- for removal and assembly of permanently elastic belts
- also suitable for twin belt pulleys
- suitable for following models:
  Audi A3; BMW 118, 120, 318, 320, 325, 330, 335, 520, 525, 530, 535, 635, 730, X3, X5; Chrysler Grand Voyager, Voyager; Citroen C2, C3, C4, Jumper, Relay; Fiat Albea, Doblo, Ducato, Fiorino, Fiorino Qubo, Linea, Marea, Multipla, Palio, Siena, Stilo, Strada Pick Up; Ford C-Max, Courier, Fiesta, Focus, Fusion, Mondeo, Tourneo, Transit; Iveco Daily; Lancia Lybra; Mazda 2, 3, 5, Axela; Mercedes Sprinter, Viano, Vito; Mitsubishi ASX; Peugeot 206, 207, 307, Boxer; Seat Altea, Ibiza; Skoda Octavia, Yeti; Volvo C30, S40, V50; VW Eos, Golf, Passat, Polo, Scirocco

Item	pcs	Art. No.
Ribbed Belt Fitting Tool Set	11	5479

Ribbed Belt Fitting Tool

- for cars with self-tensioning ribbed belts
- essential tool, because engines are supplied without tensioner in the belt arrangement to support disassembly / assembly of belt
- in Citroen C3, C4 and Jumper III
- in Fiat Ducato 2.2 and Stilo 1.6
- in Peugeot 207, 1007 and Boxer III
- also suitable for identically constructed engines from Ford

Item	pcs	Art. No.
Elastic Ribbed Belt Fitting Tool	2	5477

Tensioner Pulley Wrench Set, 5 pcs.

- extra long, bent design
- for operating the automatic tensioner on flat and ribbed belts
- also for tensioners on cam belts
- extra flat and long design for hard to reach areas

Content	Profile	Size	Length	Art. No.
Tensioner Pulley Wrench	bi-hexagon	13 mm	460 mm	*5471-13*
Tensioner Pulley Wrench	bi-hexagon	15 mm	460 mm	*5471-15*
Tensioner Pulley Wrench	bi-hexagon	16 mm	460 mm	*5471-16*
Tensioner Pulley Wrench	bi-hexagon	17 mm	460 mm	*5471-17*
Tensioner Pulley Wrench	bi-hexagon	19 mm	460 mm	*5471-19*

Item	Size	Length	pcs	Art. No.
Tensioner Pulley Wrench	13-19 mm	460 mm	5	5471

Universal Tensioner Pulley Wrench, 14 pcs.

- extra long, bent design
- for operating the automatic tensioner on flat and ribbed belts
- also for tensioners on cam belts
- with 13 different head inserts with bi-hexagon and tx-star profiles
- extra flat and long design for hard to reach areas

Content	Profile	Size	Art. No.
Wrench with Removal Pin			*5472-01*
Wrench Head Insert	bi-hexagon	12 mm	*5472-12*
Wrench Head Insert	bi-hexagon	13 mm	*5472-13*
Wrench Head Insert	bi-hexagon	14 mm	*5472-14*
Wrench Head Insert	bi-hexagon	15 mm	*5472-15*
Wrench Head Insert	bi-hexagon	16 mm	*5472-16*
Wrench Head Insert	bi-hexagon	17 mm	*5472-17*
Wrench Head Insert	bi-hexagon	18 mm	*5472-18*
Wrench Head Insert	bi-hexagon	19 mm	*5472-19*
Wrench Head Insert	tx-star	E10	*5472-E10*
Wrench Head Insert	tx-star	E12	*5472-E12*
Wrench Head Insert	tx-star	E14	*5472-E14*
Wrench Head Insert	tx-star	E16	*5472-E16*
Wrench Head Insert	tx-star	E18	*5472-E18*

Item	Profile	Length	pcs	Art. No.
Universal Tensioner Pulley Wrench	bi-hex; tx-star	470 mm	14	5472

Alternator Tool Set for Free-Wheel Drive Pulleys, 30 pcs.

- for disassembly and assembly of free-wheel drive pulleys on alternators
- also for air conditioning compressors with identical free-wheel drives
- often new alternators are supplied without free-wheel drive pulleys, requiring modifications

Content	Profile	Art. No.
Alternator Socket, 3/8", 31 teeth nut, spline M10	Spline	*4503-01*
Alternator Socket, 1/2", 33 teeth nut, spline M10	Spline	4510
Alternator Socket, 1/2", 33 teeth nut, tx-star T50	TX-Star T	4550
Socket Bit, 1/2", spline M10x140 mm	Spline	*4503-16*
Socket Bit, 1/2", spline M10x200 mm	Spline	*4503-17*
Socket Bit, 1/2", tx-star T50x140 mm	TX-Star T	*4503-18*
Socket Bit, 1/2", tx-star T50x200 mm	TX-Star T	*4503-19*
Bit, round shank, hexagon 10x71 mm	hex (socket)	*4503-26*
Bit, round shank, hexagon 8x75 mm	hexagon	*4713-05*
Bit, round shank, hexagon 10x75 mm	hexagon	*4713-06*
Bit, round shank, spline M8x75 mm	Spline	*4713-07*
Bit, round shank, spline M10x75 mm	Spline	*4713-08*
Bit, round shank, 12 mm hex, spline M10x64 mm	Spline	*4503-27*
Bit, round shank, tx-star T40x75 mm	TX-Star T	*4713-09*
Bit, round shank, tx-star T50x75 mm	TX-Star T	*4713-10*
Bit, round shank, 12 mm hex, tx-star T50x64 mm	TX-Star T	*4503-28*
Counter Holder, 15 mm x 33 teeth, ø 17.5 mm		*4713-04*
Counter Holder, 15 mm x 33 teeth, ø 19.5 mm		*4503-05*
Counter Holder, 22 mm x 33 teeth, ø 19.5 mm		*4713-03*
Counter Holder, 15 x 28 mm		*4503-07*
Counter Holder, 17 mm		*4503-08*
Counter Holder, 17 x 21 mm		*4503-09*
Counter Holder, 19 x 28 mm		*4503-10*
Counter Holder, 21 x 28 mm		*4503-11*
Counter Holder, 22 mm		*4503-12*
Counter Holder, 22 x 28 mm		*4713-02*
Counter Holder, 38 mm x 3 pins		*4503-15*
Counter Holder, 17 mm x 4 pins		*4713-01*

Item	pcs	Art. No.
Alternator Tool Set	30	4503

Drive Tools / Accessory, 3/8"	
Bit Holder, 3/8", for 10 mm bits	20622
Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620

Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620

Alternator Tool Set for Free-Wheel Drive Pulleys, 13 pcs.

- for disassembly and assembly of free-wheel drive pulleys on alternators
- also for air conditioning compressors with identical free-wheel drives
- often new alternators are supplied without free-wheel drive pulleys, requiring modifications

Content	Art. No.
Alternator Socket, 1/2", 33 teeth nut, spline M10	4510
Alternator Socket, 1/2", 33 teeth nut, tx-star T50	4550
Bit, round shank, hexagon 8x75 mm	*4713-05*
Bit, round shank, hexagon 10x75 mm	*4713-06*
Bit, round shank, spline M8x75 mm	*4713-07*
Bit, round shank, spline M10x75 mm	*4713-08*
Bit, round shank, tx-star T40x75 mm	*4713-09*
Bit, round shank, tx-star T50x75 mm	*4713-10*
Counter Holder, 15 mm x 33 teeth, ø 17.5 mm	*4713-04*
Counter Holder, 22 mm x 33 teeth, ø 19.5 mm	*4713-03*
Counter Holder, 22 x 28 mm	*4713-02*
Counter Holder, 17 mm x 4 pins	*4713-01*

Item	pcs	Art. No.
Alternator Tool Set	13	4713

Alternator Sockets

Item	Profile	Size	Drive	Counter Holder	Length	Art. No.
Socket Bit	Spline	M10	1/2"	33T - ø 19.5 x hex 17 mm	110 mm	4510
Socket Bit	TX-Star T	T50	1/2"	33T - ø 19.5 x hex 17 mm	110 mm	4550

Alternator Sockets

Item	Profile	Size	Drive	Counter Holder	Length	Art. No.
Specialist Bit	Spline	M10	12 mm	33T - ø 19.5 x hex 17 mm	65 mm	4511
Specialist Bit	TX-Star T	T50	12 mm	33T - ø 19.5 x hex 17 mm	65 mm	4512

Alternator Tool Set for Free-Wheel Drive Pulleys, 2 pcs., Ford / Volvo, tx-star

- for disassembly and assembly of free-wheel drive pulley
- in Ford C-Max, Ecosport, Edge, Focus, Galaxy, Kuga, Mondeo, Puma, S-Max, Transit, Transit Connect, Transit Custom, Tourneo Connect
- in Volvo C30, S40, V50
- extra short version, does not require removal of the alternator
- counterholder: 17 x 21 mm external hex drive
- loosening tool: T50 bit with 12 mm external hex drive

Item	Size	Drive	OEM Comparison No.	Counter Holder	Length	Art. No.
Specialist Bit	T50	12 mm	414009, 3031284	hex 17, 21 mm	65 mm	4513

Camshaft Pulley Holder

- for hole-punched timing and belt pulleys
- suitable for many popular cars
- for loosening fastening bolts on belt pulleys
- for counter holding e.g. timing belt sprockets on camshafts or injection pumps

Item	OEM Comparison No.	Art. No.
Camshaft Pulley Holder	3036 / 5199 / 9880 / 205072 / 9995199 / 9995645 / 9995705 / 1822146000 / 1822155000 / 1842128000 / 1860831000 / 1860885000 / 0132AA / 15030A / 1530A / 6016T / MB990767 / MOT799 / MP1216 / U20002 / UN205072	6044

Flywheel Holding Wrench

- for flywheel assembly jobs
- for counter holding when loosening crankshaft pulleys

Item	Length	Art. No.
Flywheel Holding Wrench	250 mm	5481

Belt Pulley Spinning Wrench

- for turning the engine
- adjustable for different pulley sizes
- must not be used for counter holding shafts
- suitable for e.g. Audi, BMW, Ford, Mercedes, Opel, Peugeot, Renault, Rover, Volvo and various Japanese manufacturers

Item	Length	Art. No.
Belt Pulley Spinning Wrench	325 mm	5485

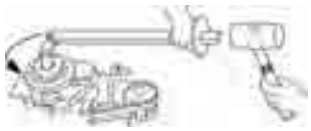
Camshaft Pulley Holder, 11 pcs.

- for hole-punched timing and belt pulleys
- suitable for many popular cars
- for loosening fastening bolts on belt pulleys
- for counter holding e.g. timing belt sprockets on camshafts or injection pumps
- with interchangeable pins
- adjustable ø 40 - 220 mm

Content	Ø	pcs	Art. No.
Counter Holding Wrench			*5484-01*
Pin Pair	6 - 10 mm	2	*5484-02*
Pin Pair	8 - 11 mm	2	*5484-03*
Pin Pair	10 - 12 mm	2	*5484-04*
Pin Pair	11 - 16 mm	2	*5484-05*
Locking Screw		2	*5484-06*

Item	OEM Comparison No.	pcs	Art. No.
Camshaft Pulley Holder	EN49979 / 1860885000 / 9880 / T10172 / VAG3036	11	5484

Impact Wrench



- for loosening nuts and bolts on pulleys
- designed for hard to reach areas
- e.g. assembly and disassembly of counterbalance discs without dismantling the radiator

Item	Description	Art. No.
Impact Wrench	with square coupler 1/2"	5473

Pulley Puller, universal

- for pulling and counterholding at the same time
- prevents the crankshaft from rotating
- flexible assembly spread: 54 mm - 120 mm
- 1/2" square for counterholding, e.g. with a swivel bar (Condor item number 22730)
- includes 2 fixing bolts each in M6 and M8

Item	Art. No.
Pulley Puller	6052

Puller for Ribbed Drive Pulleys

- suitable for crankshafts, alternators, air conditioning systems, water pumps etc.

Item	Spread	Art. No.
Pulley Puller	40 - 168 mm	5475

Pulley Puller, universal

- The special design connects all puller arms with adjusting disc, allowing quick and exact setting of required spread.
- for removing camshaft sprockets, injection pump sprockets, belt pulleys etc.
- compact construction can also be used on built-in engines
- 3 continuously adjustable pulling arms, ø 12 mm
- puller body with 6 grooves allows application for various hole pitches
- disc ø 100 mm
- for max. material thickness 10 mm
- powerful spindle M14x1.5 with centering ball
- operated by 19 mm hexagon drive

Item	Spread	Throat Depth	Art. No.
Puller for Ribbed Drive Pulleys	60 - 90 mm	27 mm	6051

Pulley Puller

- for camshaft sprockets, injection pump sprockets etc.
- compact construction for hard to reach areas
- variable hole pitch for universal applications

Item	Spread	Length	Art. No.
Pulley Puller	65 - 90 mm	26 mm	6050

Engine Block, Piston and Valves

Stud Extractor Set, 4 pcs.

- for stud bolts with right- or left-hand thread
- supplied in solid metal case

Content	Size	Drive	Art. No.
Stud Extractor	M6	1/2" / 21 mm hex	174-6
Stud Extractor	M8	1/2" / 21 mm hex	174-8
Stud Extractor	M10	1/2" / 21 mm hex	174-10
Stud Extractor	M12	1/2" / 21 mm hex	174-12

Item	Size	Drive	Art. No.
Stud Extractor Set	6-12 mm	1/2" / 21 mm hex	174

Stud Extractor Set, 5 pcs.

- to unscrew stud bolts 6, 8, 10 and 12 mm
- short model for working in confined spaces
- 4 special sockets for automatically clamping
- incl. double head ratchet spanner, 14 x 17 mm, reversible

Item	Ø	pcs	Art. No.
Stud Extractor Set	6-12 mm	5	5352

Universal Stud Extractor

- with toothed jaw
- for extremely tight stud bolts
- also for corroded and scaled bolts
- compact design for hard to reach areas

Item	Drive	Spread	Art. No.
Universal Stud Extractor	1/2"	6.3 - 12 mm	173

Stud Extractor

- for right- and left-hand threads
- solid construction
- large spread
- compact design for hard to reach areas

Item	Drive	Spread	Art. No.
Stud Extractor	19 mm hex	6.3 - 14 mm	170

Cylinder Sleeve Hone

- for almost all combustion engines
- solid construction
- with flexible shaft
- large range

Item	Drive	Spread	Arms	Art. No.
Cylinder Sleeve Hone	1/4"	51 - 178 mm	3	5322

spare parts

Item	Art. No.
Stone Set, for hone No. 5322	5327

Precision Clearance Gauge Plastigauge®

- for measuring the clearance in bearings
- easy to use, but very effective and precise measurement system for clearance, without disassembly of components
- applications include crank and rod bearings and generally situations, in which the application of a feeler gauge is not possible

Item	Measuring Range	Colour	Quantity	Art. No.
Precision Clearance Gauge Plastigauge®	0.018 - 0.045 mm	white	10 pcs.	40100
Precision Clearance Gauge Plastigauge®	0.025 - 0.175 mm	red	10 pcs.	40101
Precision Clearance Gauge Plastigauge®	0.100 - 0.250 mm	blue	10 pcs.	40102
Precision Clearance Gauge Plastigauge®	0.175 - 0.500 mm	green	10 pcs.	40103
Precision Clearance Gauge Plastigauge®	0.500 - 1.000 mm	brown	5 pcs.	40104
Precision Clearance Gauge Plastigauge®	0.750 - 1.750 mm	black	5 pcs.	40105
Precision Clearance Gauge Plastigauge®	1.750 - 3.000 mm	purple	5 pcs.	40106

Valve Grinding Tool

- to be used with ordinary power drills
- for grinding in valves
- automatic direction change
- includes 22 + 28 mm suction cap

Item	Speed	Art. No.
Valve Grinding Tool	400 - 900 rpm	5280

spare parts

Item	Art. No.
Spare Suction Cap for No. 5280, 22 mm	*5280-22*
Spare Suction Cap for No. 5280, 28 mm	*5280-28*

Valve Grinder Set, 2 pcs.

- solid wood construction, for grinding in valves manually

Content	Ø	Length	Art. No.
Valve Grinder	16 + 21 mm	205 mm	5285-16
Valve Grinder	28 + 34 mm	225 mm	5285-28

Item	Size	pcs	Art. No.
Valve Grinder Set	ø 16x21 + 28x34 mm	2	5285

Valve Spring Assembly and Disassembly Set

- suitable for petrol and diesel engines
- for assembly / disassembly of valve springs, gaskets and valve collets
- includes compressed air adapters to prevent valves falling back into the cylinder

Content	pcs	Art. No.
Yoke, with holders	3	*4592-01*
Flexible Air Hose, 14 + 18 mm thread		*4592-02*
Lever		*4592-03*
Remover		*4592-04*
Assembly Tool for Collets		*4592-05*
Air Adapter for Spark Plugs, 14 + 18 mm thread		*4592-06*
Air Adapter for Diesel Injectors		*4592-07*
Air Connector Kit	4	*4592-08*

Item	pcs	Art. No.
Valve Spring Assembly / Disassembly Set	13	4592

Valve Refacing and Seating Tool, 14 pcs.

- for hardened and normal valve seats
- for almost all valve seats with ø 28 - 65 mm
- with 30, 45, 60, 68 und 75° angle
- with continuously expandable pilots for ø 6.5 - 12.5 mm

Item	Description	pcs	Art. No.
Valve Refacing and Seating Tool	for valve seats ø 28 - 65 mm	14	5300

Valve Refacing and Seating Tool Set

- for unhardened valve seats
- for valve seats with 45 and 90° angle
- with pilots

Item	Description	pcs	Art. No.
Valve Refacing and Seating Tool	1 t-handle, 5 cutters, 45 + 90°, ø 32.5, 35, 37.5, 40, 42.5 mm	6	5290

Valve Spring Compressor

- suitable for petrol and diesel engines
- enables the replacement of valve springs and collets without disassembling the cylinder head
- also suitable for truck engines
- hook length 100 mm

Item	Spread	Art. No.
Valve Spring Compressor	60 mm	4590

Valve Spring Compressor

- suitable for petrol and diesel engines
- for assembly / disassembly of valves

Item	Spread	Description	Art. No.
Valve Spring Compressor	75-225 mm	with locking handle	175

Valve Spring Compressor

- suitable for petrol and diesel engines
- for camshaft following valves
- enables the replacement of valve springs and collets without disassembling the cylinder head
- with special hooks for mounting to camshaft

Item	Art. No.
Valve Spring Compressor	4593

Valve Shim Removal Tool

- suitable for petrol and diesel engines
- suitable for various European engines with overhead camshaft
- for e.g. Opel, Renault, Volvo etc.
- for holding down bucket tappets when removing valve shims

Item	Art. No.
Valve Shim Removal Tool	4591

Valve Spring Tensioning Tool, Citroen / Peugeot

- suitable for petrol engines 1.0, 1.1, 1.4 and 1.6 L
- in Citroen: Berlingo, Xsara
- in Peugeot: 106, 205, 206, 306, 307, 405

Item	OEM Comparison No.	Art. No.
Valve Spring Tensioning Tool	4533TZ / 0132AE	3511

for engine codes:
CDY, CDZ, HDZ, HDY, KDX, KDY, KDZ, KFW, KFX, KFY, KFZ, NFZ

Valve Seal Remover with Sliding Hammer

- supplied in plastic case
- for quick removal of tight valve seals without damaging the piloting

Item	OEM Comparison No.	Description	Art. No.
Valve Seal Remover with Sliding Hammer	3364	for ø 10 - 19 mm	5425

Valve Seal Ring Pliers

- for pulling the valve shaft sealing
- also for removing the valve spring support
- hardened jaw and joint

Item	Length	Art. No.
Valve Seal Ring Pliers	250 mm	298

Piston Ring Pliers

- for replacing piston rings

Item	Spread	Art. No.
Piston Ring Pliers	40 - 100 mm	179A
Piston Ring Pliers	110 - 150 mm	179B

Piston Ring Pliers

- for mounting piston rings on groove
- with special grip claws
- nickel plated handles

Item	Length	Art. No.
Piston Ring Plier	205 mm	181

Piston Ring Compressors

- for inserting the piston into engine block
- with tensioning lock
- extra long tensioning lever

Item	Spread	Height	Art. No.
Piston Ring Compressor	40 - 75 mm	50 mm	180A
Piston Ring Compressor	57 - 125 mm	80 mm	180B
Piston Ring Compressor	90 - 175 mm	80 mm	180C
Piston Ring Compressor	90 - 175 mm	165 mm	180D

Piston Ring Compressor, separable

- for inserting the piston into engine block
- separable model, for assembly of air-cooled engines
- also suitable for water-cooled engines
- with tensioning lock
- extra long tensioning lever

Item	Spread	Height	Art. No.
Piston Ring Compressor	57 - 125 mm	80 mm	180-2

Seal Puller Hook Set, 3 pcs.

- specially suitable for removal of shaft sealing rings
- 2x s-shaped hook for shaft sealing rings
- 1x angled hook, e.g. for o-rings

Item	pcs	Art. No.
Seal Puller Hook Set	3	1582

14

Shaft Seal Assembly Set

- specially suitable for assembly of shaft sealing rings with teflon coating
- suitable for seals on crankshaft, camshaft and countershafts which are not screwed
- puller with 2 pairs of hooks in different length, for professional removal of shaft sealing rings
- 7 assembly sleeves for shaft sealing rings
- 7 adapters for all popular center bolts (M8 - M10 - M12 - M14 - M16 - M18 - M20)
- 4 spacer washers to compensate for different length of center bolts

Item	Art. No.
Shaft Seal Assembly Set	5457

spare parts

Item	Art. No.
Yoke	*5457-A*
Puller Arm, short	*5457-HK*
Puller Arm, long	*5457-HL*

Shaft Seal Assembly Set, Audi / VW

- specially suitable for Audi, VW, Seat and Skoda engines
- for professional assembly of shaft sealing rings on many popular engines from the VW corporation, also for identically constructed engines from e.g. Ford
- for petrol engines 1.2 (3 cyl.), 1.0 - 1.2 - 1.4 - 1.6 - 1.8 - 2.0 (4 cyl.): crankshaft, camshaft and countershaft (belt pulley side)
- for petrol engines 5 cyl. with PTFE shaft sealing ring, 6 cyl.: crankshaft (belt pulley side)
- for diesel engines 1.2 - 1.4 (3 cyl.), 1.4 - 1.6 - 1.9 - 2.4 - 2.5: crankshaft, camshaft and countershaft (belt pulley side)

Item	pcs	Art. No.
Shaft Seal Assembly Set	14	5456

Shaft Seal Assembly Set, Mercedes

- for Mercedes engines M271 and M272
- for professional assembly of the rear crankshaft sealing ring

Item	OEM Comparison No.	pcs	Art. No.
Shaft Seal Assembly Set	271589004300	2	5459

Subframe Locating Bolts, Audi / VW

- for centering the aggregate carrier bracket during reassembly
- exact positioning, therefore avoids tracking alignment
- for jobs which require disassembly of the aggregate carrier bracket
- e.g. for transmission or clutch repairs
- suitable for cars from Audi, VW, Seat and Skoda

Item	Size	OEM Comparison No.	pcs	Art. No.
Subframe Locating Bolts	M12	T10096	4	4285
Subframe Locating Bolts	M14	T10227	4	4286

Engine Sinking Bolts, Smart

- for lowering the subframe
- mounting orientation remains unchanged
- for replacing original bolts on supported engine
- give 20 cm extra space in upper engine compartment
- required when working on starter or turbo charger

Item	Drive	OEM Comparison No.	pcs	Art. No.
Engine Sinking Bolts	19 mm hex	450589006200	4	4284

Cylinder Head Component Organiser

- for handling and keeping apart the components during cylinder head repair
- for safe storage and avoiding confusion when working on cylinder heads
- storage for 2 camshafts
- separate storage placements for valves, valves springs, valve lifters, cylinder head bolts etc.
- solid plastic construction with metal frame support

Item	Length	Width	Height	Art. No.
Cylinder Head Component Organiser	450 mm	400 mm	235 mm	3817

Cylinder Head Stand, 2 pcs.

- for working on disassembled cylinder head
- universally suitable for all popular cylinder heads
- protects plane surface from damage
- conical pins are put into the open screw connections

Item	Width	Height	pcs	Art. No.
Cylinder Head Stand	220 mm	270 mm	2	3815

Glow and Spark Plugs

Glow Plug Extraction Drill Set, M8 / M9 / M10 / M12

- to drill out tight or broken glow plugs
- for user-friendly, quick and cost-efficient repair jobs
- also suitable for ceramic glow plugs
- to drill out the glow plug, remove residues and cut new thread
- drills, sleeves, dies and extraction bolts specially designed for each glow plug sizes
- drills and dies in HSS-Co5 steel quality - for extra long durability
- specialist sockets for removing glow plug electrode
- striking weight for removing residues, with 2 sliding bars to select from depending on available work space
- universal set, suitable for almost all car manufacturers

2060-04

2060-11

2060-20

Content	Size	Length	Application	Material	Art. No.
Step Drill	ø 4.2x7x10 mm	140 mm	M8	HSS Co5	*2060-01*
Step Drill	ø 4.2x8x10 mm	140 mm	M9	HSS Co5	*2060-02*
Step Drill	ø 5x9x10 mm	140 mm	M10	HSS Co5	*2060-03*
Step Drill	ø 7x10.8x12 mm	140 mm	M12	HSS Co5	*2060-04*
Thread Cutter	M5x0.8	140 mm	M8, M9	HSS Co5	*2060-05*
Thread Cutter	M6x1.0	140 mm	M10	HSS Co5	*2060-06*
Thread Cutter	M8x1.0	140 mm	M8, M12	HSS Co5	*2060-07*
Thread Cutter	M9x1.0	140 mm	M9	HSS Co5	*2060-08*
Thread Cutter	M10x1.0	140 mm	M10	HSS Co5	*2060-09*
Thread Cutter	M10x1.25	140 mm	M10	HSS Co5	*2060-10*
Thread Cutter	M12x1.25	140 mm	M12	HSS Co5	*2060-11*
Drills	ø 2.5 mm	125 mm	M8, M9	HSS Co5	*2060-12*
Drills	ø 3.5 mm	125 mm	M10, M12	HSS Co5	*2060-13*
Pilot Sleeve	bore 2.5 mm	60 mm	M8, M9		*2060-15*
Pilot Sleeve	bore 3.6 mm	40 mm	M10, M12		*2060-16*
Extraction Bolt	M5x0.8	70 mm	M8, M9		*2060-17*
Extraction Bolt	M6x1	70 mm	M10		*2060-18*
Extraction Bolt	M8x1	70 mm	M12		*2060-19*
Tap Wrench	1/4" sq. drive	120 mm	universal		2060-20
Extraction Bolt Adapter	M8x1.25 x M10x1.5	50 mm	universal		*2060-21*
Lock Nut	14 mm hex		universal		*2060-22*
Sliding Bar	M10x1.5	100 mm	universal		*2060-23*
Sliding Bar	M10x1.5	200 mm	universal		*2060-24*
Striking Weight	555 g	50 mm	universal		*2060-25*
Handle		140 mm	universal		*2060-26*
Socket	2.6 mm	40 mm		CR-MO	*2096-01*
Socket	3.2 mm	40 mm		CR-MO	*2096-02*
Socket	3.5 mm	40 mm		CR-MO	*2096-03*
Socket	8.25 mm	40 mm		CR-MO	*2096-06*

Item	Application	Art. No.
Glow Plug Extraction Drill Set	M8x1, M9x1, M10x1, M10x1.25, M12x1.25	2060

Tap, HSS Co5, M12x1.0, length 140 mm

- to drill out tight or broken glow plugs
- also suitable for ceramic glow plugs
- drill specially designed for glow plug sizes
- drill in HSS Co5 steel quality - for extra long durability

Item	Size	Length	Application	Material	Art. No.
Thread Cutter	M12x1.0	140 mm	M12	HSS Co5	2060-27

Specialist Sockets for Glow Plug Electrode, 4 pcs.

- for preparation before drilling out damaged glow plugs
- for removing the central electrode of damaged glow plugs
- for glow plugs M8, M9, M10 and M12

Content	Profile	Size	Drive	Material	Art. No.
Socket	twist profile	2.6 mm	1/4"	CR-MO	*2096-01*
Socket	twist profile	3.2 mm	1/4"	CR-MO	*2096-02*
Socket	twist profile	3.5 mm	1/4"	CR-MO	*2096-03*
Socket	twist profile	8.25 mm	1/4"	CR-MO	*2096-06*

Item	pcs	Art. No.
Specialist Sockets	4	2096A

Extractor for Broken Glow Plug Tips

- to drill out damaged glow plug tips
- comprehensive set for the most popular glow plug sizes
- for glow plugs with thread M8x1.0, M10x1.0 and M10x1.25
- enables disassembly also in installed positions, therefore providing time and cost savings
- with 9 different pilot adapters for precise working
- extra long drills and thread cutters
- extraction adapters with ball bearing
- extra long extraction spindles
- extraction nuts with pilot cone

Content	Description	Art. No.
Thread Cutter	M3x0.5	*2087-01*
Thread Cutter	M4x0.7	*2087-02*
Drill	2.5x120 mm	*2087-03*
Drill	3.3x140 mm	*2087-04*
Extraction Spindle	M4x0.7	*2087-05*
Extraction Spindle	M3x0.5	*2087-06*
Extraction Nut	M4x0.7	*2087-07*
Extraction Nut	M3x0.5	*2087-08*
Extraction Adapter	M10x1.25	*2087-09*
Extraction Adapter	M10x1.0	*2087-10*
Extraction Adapter	M8x1.0	*2087-11*
Guide Adapter	M10x1.25 - long	*2087-12*
Guide Adapter	M10x1.0 - long	*2087-13*
Guide Adapter	M8x1.0 - short	*2087-14*
Guide Adapter	M8x1.0 - medium	*2087-15*
Guide Adapter	M8x1.0 - long	*2087-16*
Guide Adapter	M10x1.25 - short	*2087-17*
Guide Adapter	M10x1.0 - short	*2087-18*
Guide Adapter	M10x1.25 - medium	*2087-19*
Guide Adapter	M10x1.0 - medium	*2087-20*

Item	Art. No.
Extractor for Broken Glow Plug Tips	2087

accessory

Item	Art. No.
Drill, HSS C5, ø 2.5, length 225 mm	2086

2086

Glow Plug Puller

- for pulling carbonised glow plugs with 10 mm hexagon drive
- simultaneous turn and pull movement extracts the glow plug - even if glow plug thread is already out of cylinder head

Item	Profile	Size	Drive	Art. No.
CDI-Glow Plug Puller	hexagon	10 mm	3/8"	2099

Glow Plug Impact Wrench

- to extract carbonised or corroded glow plugs
- the impact wrench produces impact momentum in turning direction, acting like a hammer stroke on the screw connection; these strokes are executed over 50x per minute with max. 40 Nm (with 8 bar) in loosening mode, thus causing the corrosion and carbonisation to break open
- specially designed for Common-Rail diesel engines
- also suitable for spark plugs
- adjustable loosening torque in 4 modes: 10 Nm / 20 Nm / 30 Nm / 40 Nm

Content	Drive	Profile	Size	Length	Art. No.
Glow Plug Impact Wrench	1/4"				*8820-01*
Impact Socket	1/4"	hexagon	8 mm	50 mm	*8820-02*
Impact Socket	1/4"	hexagon	9 mm	50 mm	*8820-03*
Impact Socket	1/4"	hexagon	10 mm	50 mm	*8820-04*
Impact Socket	1/4"	hexagon	11 mm	50 mm	*8820-05*
Impact Socket	1/4"	hexagon	12 mm	50 mm	*8820-06*
Extension Bar	1/4"			50 mm	*8820-07*
Extension Bar	1/4"			100 mm	*8820-10*
Joint	1/4"				*8820-08*
Pneumatic Nipple					*8820-09*

Item	Art. No.
Glow Plug Impact Wrench	8820

Glow Plug Extraction Drill Set, M8x1 and M10x1

- to drill out tight or broken glow plugs
- Repair system for broken glow plugs. User-friendly repair method provides a quick and cost-efficient solution to removal problems of new generation glow plugs. With this set all accessible glow plugs with thread M8x1 and M10x1 can be drilled out and the remains removed.
- for Audi, Seat, Skoda, VW, Mercedes, Opel, Peugeot, Renault etc.

Content	Description	Art. No.
Socket	3/8" - E 10 - long	*2088A-01*
Specialist Drill	7 x 5.5 mm	*2088A-02-7*
Specialist Drill	9 x 5.5 mm	*2088A-02-9*
Drill Holder		*2088A-03*
Tap	M8x1.0	*2088A-04*
Tap	M10x1.0	*2088A-04-M10*
Tap	1/4" UNF	*2088A-05*
Ratchet T-type Tap Wrench	long	*2088A-06*
Drill Bush		*2088A-07*
Thread Adapter	1/4" UNF	*2088A-08*
Extraction Spindle		*2088A-09*
Drill Pilot		*2088A-10*
HSS Twist Drill	3.5 mm	*2088A-11*

Item	Art. No.
Glow Plug Extraction Drill Set	2088A

Glow Plug Removal Set, 3 pcs.

- e.g. for Mercedes-Benz CDI-engines
- for removing deposits in glow plug shafts
- for pulling out tight glow plugs

Content	Size	Drive	Art. No.
Specialist Reamer	M10x1.0	10 mm hex	*2097-01*
Specialist Reamer	M12x1.5	13 mm hex	*2097-02*
Extractor		19 mm hex	*2097-03*

Item	Art. No.
Glow Plug Removal Set	2097

for engine codes:
OM604, OM605, OM606, OM611, OM612, OM613

Glow Plug Extraction Drill Set, Audi / VW V6 TDI

- to drill out tight or broken glow plugs
- for Audi / VW 2.5, 2.7 and 3.0 L V6-TDI engines
- for drilling out glow plugs with M10x1.0 thread
- for rethreading or replacing glow plug thread
- repair is possible without cylinder head disassembly
- in VW Passat, Touareg and Phaeton
- in Audi A4, A6, A8 and Q7
- in Skoda Superb

Content	Description	Art. No.
Locking Handle	1/4"	*2089-01*
Tap Extension	1/4" sq. drive, with chuck	*2089-02*
Reamer	ø 8.7 x 5.7	*2089-03*
Reamer	ø 8.7 x 4.7	*2089-04*
Cover Plate for Intake Side	screwed	*2089-05*
Drill	ø 11.1 mm	*2089-06*
Drill	ø 9.1 mm	*2089-07*
Overpressure Attachment	for injector bore	*2089-08*
Reamer	ø 4.7 mm (short)	*2089-09*
Screw Extractor Set	for 2.5, 3.5 and 4.0 mm electrodes	*2089-10*
Tap	M12x1.0	*2089-11*
Tap	M10x1.0	*2089-12*
Glow Plug Extractor	ball bearing pull spindle	*2089-13*
Tap	M6x1.25	*2089-14*
Centering Bushes Set	inner-ø 13 x 38 mm, 9 x 38 mm, 13 x 63 mm	*2089-15*
Threaded Bushes	for M10x1.0	*2089-16*

Item	Description	Art. No.
Glow Plug Extraction Drill Set	for M10x1.0	2089

for engine codes:
AFB, AKE, AKN, ASB, AYM, BAU, BCZ, BDG, BDH, BFC, BKN, BKS, BMK, BNG, BPP, BSG, BUG, BUN

Glow Plug Pliers

- for popular glow plug connectors in European cars

Item	Length	Description	Art. No.
Glow Plug Pliers	245 mm	straight type	2090
Glow Plug Pliers	235 mm	offset	2095

2090

2095

Spark Plug Cover Pliers

- for hard to reach spark plug connectors

Item	Length	Description	Art. No.
Spark Plug Cover Pliers	280 mm	ring-shaped jaw	5730
Spark Plug Cover Pliers	290 mm	tube-shaped jaw	5738

5730

5738

T-Handle Spark Plug Cover Puller, Audi / VW

- for spark plug connectors with metal coating
- protects against damage to ignition cable

Item	Length	Art. No.
T-Handle Spark Plug Puller	225 mm	248-225
T-Handle Spark Plug Puller	350 mm	248-350

Glow Plug Ratchet Wrench, offset

- for hard to reach glow plugs
- universally suitable for hard to reach areas
- for e.g. Audi, BMW, Mercedes, Peugeot, Renault, Seat, Skoda, Volkswagen

Item	Profile	Size	Length	Art. No.
Glow Plug Ratchet Wrench	bi-hexagon	8x12 mm	300 mm	2070

Glow Plug Socket Assortment, 18 pcs.

- for removing and fitting standard glow plugs and PSG glow plugs with the sensitive pressure sensor, e.g. VAG 03L905061D, Opel 1826354, GM 55564163 and 55577419
- incl. 5 contact cover caps for PSG glow plug connections to protect against dirt and anti-static charge

Content	Profile	Size	Drive	Length	Art. No.
PSG Glow Plug Socket	hexagon	12 mm	1/4"	50 mm	2071
Specialist Glow Plug Socket	hexagon	8 mm	10 mm hex	50 mm	*2073-01*
Specialist Glow Plug Socket	hexagon	9 mm	10 mm hex	50 mm	*2073-02*
Specialist Glow Plug Socket	hexagon	10 mm	10 mm hex	50 mm	*2073-03*
Glow Plug Socket	hexagon	8 mm	1/4"	50 mm	*2074-01*
Glow Plug Joint Socket	hexagon	8 mm	1/4"	60 mm	2075-8
Glow Plug Joint Socket	hexagon	9 mm	1/4"	60 mm	2075-9
Glow Plug Joint Socket	hexagon	10 mm	1/4"	60 mm	2075-10
Glow Plug Joint Socket	hexagon	8 mm	3/8"	72 mm	2080-8
Glow Plug Joint Socket	hexagon	9 mm	3/8"	72 mm	2080-9
Glow Plug Joint Socket	hexagon	10 mm	3/8"	72 mm	2080-10
Extension Bar			1/4"	100 mm	21105
Universal Joint			1/4"		21125

Item	pcs	Art. No.
Glow Plug Socket Set	18	2074

PSG Glow Plug Socket

- with 5 contact cover caps to protect the sensitive pressure sensor

Item	Profile	Size	Drive	Length	Art. No.
PSG Glow Plug Socket	hexagon	12 mm	1/4"	50 mm	2071

Glow Plug Joint Socket Set, 6 pcs.

- for hard to reach glow plugs

Content	Profile	Size	Drive	Length	Art. No.
Glow Plug Joint Socket	hexagon	8 mm	3/8"	72 mm	2080-8
Glow Plug Joint Socket	hexagon	9 mm	3/8"	72 mm	2080-9
Glow Plug Joint Socket	hexagon	10 mm	3/8"	72 mm	2080-10
Glow Plug Joint Socket	hexagon	12 mm	3/8"	72 mm	2080-12
Glow Plug Joint Socket	hexagon	14 mm	3/8"	80 mm	2080-14
Glow Plug Joint Socket	hexagon	16 mm	3/8"	80 mm	2080-16

Item	Profile	Size	Drive	Length	pcs	Art. No.
Glow Plug Joint Socket Set	hexagon	8-16 mm	3/8"	72-80 mm	6	2080

Glow Plug Joint Socket Set, long, 6 pcs.

- for hard to reach glow plugs

Content	Profile	Size	Drive	Length	Art. No.
Glow Plug Joint Socket	hexagon	8 mm	3/8"	150 mm	2085-8
Glow Plug Joint Socket	hexagon	9 mm	3/8"	150 mm	2085-9
Glow Plug Joint Socket	hexagon	10 mm	3/8"	150 mm	2085-10
Glow Plug Joint Socket	hexagon	12 mm	3/8"	150 mm	2085-12
Glow Plug Joint Socket	hexagon	14 mm	3/8"	150 mm	2085-14
Glow Plug Joint Socket	hexagon	16 mm	3/8"	150 mm	2085-16

Item	Profile	Size	Drive	Length	pcs	Art. No.
Glow Plug Joint Socket Set	hexagon	8-16 mm	3/8"	150 mm	6	2085

Glow Plug Joint Sockets

- for hard to reach glow plugs

Item	Profile	Size	Drive	Length	Art. No.
Glow Plug Joint Socket	hexagon	8 mm	1/4"	60 mm	2075-8
Glow Plug Joint Socket	hexagon	9 mm	1/4"	60 mm	2075-9
Glow Plug Joint Socket	hexagon	10 mm	1/4"	60 mm	2075-10
Glow Plug Joint Socket	hexagon	8 mm	3/8"	72 mm	2080-8
Glow Plug Joint Socket	hexagon	8 mm	3/8"	150 mm	2085-8
Glow Plug Joint Socket	hexagon	9 mm	3/8"	72 mm	2080-9
Glow Plug Joint Socket	hexagon	9 mm	3/8"	150 mm	2085-9
Glow Plug Joint Socket	hexagon	10 mm	3/8"	72 mm	2080-10
Glow Plug Joint Socket	hexagon	10 mm	3/8"	150 mm	2085-10
Glow Plug Joint Socket	hexagon	12 mm	3/8"	72 mm	2080-12
Glow Plug Joint Socket	hexagon	12 mm	3/8"	150 mm	2085-12
Glow Plug Joint Socket	hexagon	14 mm	3/8"	80 mm	2080-14
Glow Plug Joint Socket	hexagon	14 mm	3/8"	150 mm	2085-14
Glow Plug Joint Socket	hexagon	16 mm	3/8"	80 mm	2080-16
Glow Plug Joint Socket	hexagon	16 mm	3/8"	150 mm	2085-16

Spark Plug Joint Socket, 3/8", 180 mm, bi-hex 14 mm

- for deep-seated or extra long spark plugs
- suitable for BMW, Mercedes-Benz, Renault etc.
- with retaining spring for better grip

Item	Size	Drive	Length	Art. No.
Spark Plug Joint Socket	14 mm	3/8"	180 mm	2084

Spark Plug Sockets

- with magnet insert

Item	Profile	Size	Drive	Length	Art. No.
Spark Plug Socket	bi-hexagon	14 mm	3/8"	90 mm	247-90
Spark Plug Socket	bi-hexagon	14 mm	3/8"	250 mm	247-250

Spark Plug Sockets, xcess performance

- with rubber insert

Item	Profile	Size	Drive	Length	Art. No.
Spark Plug Socket	hexagon	18 mm	3/8"	90 mm	25209-18
Spark Plug Socket	hexagon	16 mm	1/2"	90 mm	27209-16
Spark Plug Socket	hexagon	21 mm	1/2"	90 mm	27209-21

Spark Plug Sockets

- with rubber insert

Item	Profile	Size	Drive	Length	Art. No.
Spark Plug Socket	hexagon	16 mm	3/8"	65 mm	209C
Spark Plug Socket	hexagon	18 mm	3/8"	65 mm	209D
Spark Plug Socket	hexagon	21 mm	3/8"	65 mm	209B
Spark Plug Socket	hexagon	16 mm	1/2"	65 mm	209A
Spark Plug Socket	hexagon	21 mm	1/2"	65 mm	209

T-Bar Spark Plug Wrenches, with ball joint, extra long

- to install and disengage spark plugs
- solid handle with rubber coating
- with ball joint
- with rubber insert

Item	Profile	Size	Length	Art. No.
T-Bar Spark Plug Wrench	hexagon	16 mm	375 mm	246-16
T-Bar Spark Plug Wrench	hexagon	21 mm	375 mm	246-21

T-Bar Spark Plug Wrenches, with universal joint

- to install and disengage spark plugs
- PVC-dipped t-handle
- with joint

Item	Profile	Size	Length	Art. No.
T-Bar Spark Plug Wrench	hexagon	16 mm	235 mm	245-16
T-Bar Spark Plug Wrench	hexagon	21 mm	235 mm	245-21

14

Spark Plug Tool Kit, 5 pcs.

- to install and disengage spark plugs
- 1x reversible ratchet with swivel head
- 2x extension bars 45 + 75 mm
- 2x spark plug sockets 16 + 21 mm

Item	Drive	Description	pcs	Art. No.
Spark Plug Tool Kit	3/8"	16 + 21 mm hexagon	5	106

Files

- ideal for cleaning spark plug contacts
- single-cut

Item	Length	Quantity	Art. No.
File Set	150 mm	6 pcs.	63
File	150 mm	1 pcs.	9503

Spark Plug Brush

- brass wire
- ideal for cleaning spark plug electrodes
- manufactured in Germany

Item	Length	Art. No.
Spark Plug Brush	150 mm	9501

Ignition Spark Tester with Spark Gap

- for testing ignition voltage
- measures ignition spark strength through adjustable spark gap

Item	Art. No.
Ignition Spark Tester with Spark Gap	5029

Ignition Coil Puller, for pencil coils, Audi / VW

- for 1.0 L, 1.0 L TSI / TFSI, 1.2 L TSI, 1.4 L TSI / TFSI and 2.0 GTI engines
- in VW Beetle (from ´14), Caddy (from ´15), Eos (from ´06), Golf (from ´13), Passat (from ´14), Polo (from ´12), Sharan (from ´15), Tiguan (from ´15) Touran (from ´15) and Up (from ´11)
- in Audi A1 (from ´12) and A3 (from ´13)
- in Seat Ibiza (from ´13), Leon (from ´13) and Mii (from ´11)
- in Skoda Citigo (from ´11), Fabia (from ´14) and Octavia (from ´13)
- to disengage and install pencil coils with final output stage
- avoids damage to coil and housing

Item	OEM Comparison No.	Art. No.
Ignition Coil Puller, for pencil coils	T10530	4721

for engine codes:
CAPB, CAVA, CAVD, CAVE, CAXA, CBZB, CCZA, CCZB, CDGA, CHHA, CHHB, CHPA, CHYA, CHYB, CHZB, CHZD, CJSB, CJXB, CJXC, CJZA, CJZB, CJZD, CKMA, CMBA, CPCB, CPGA, CPTA, CPVA, CPVB, CPWA, CTHA, CTHD, CUKA, CUKB, CWVA, CXCA, CXEA, CXSA, CXSB, CYVA, CYVB, CZCA, CZDA, CZDB, CZEA

Ignition Coil Puller Set, 4 pcs., Audi / VW

- for many popular injection engine from the VW corporation
- to disengage and install ignition coils with final output stage

Content	Size	OEM Comparison No.	Length	Art. No.
Ignition Coil Puller	19 mm inner width	T10095A	135 mm	*4720-19*
Ignition Coil Puller	26 mm inner width	T10094A	135 mm	*4720-26*
Ignition Coil Puller	38.5 mm inner width	T40039	50 mm	*4720-38*
Ignition Coil Puller	39 mm inner width	T10166	105 mm	*4720-39*

Item	pcs	Art. No.
Ignition Coil Puller Set	4	4720

Thread Repair Set for Glow Plugs M8x1.0

- for cleaning old threads or cutting new threads
- includes 5 pcs. threaded bushes M8x1.0 with antirust coating

Content	Size	Art. No.
Thread Chaser	M8x1.0	*5670-01*
Thread Awl	for M10x1.0	*5670-02*
Thread Cutter	M10x1.0	*5670-03*

Item	Size	pcs	Art. No.
Thread Repair Set for Glow Plugs	M8x1.0	8	5670

accessory

Item	Art. No.
Threaded Bushes M8, 11 mm long, for No. 5670, 10 pcs.	5670-1

Thread Repair Set for Glow Plugs M9x1.0

- for cleaning old threads or cutting new threads
- includes 5 pcs. threaded bushes M9x1.0 with antirust coating

Content	Size	Art. No.
Thread Chaser	M9x1.0	*5671-01*
Thread Awl	for M11x1.0	*5671-02*
Thread Cutter	M11x1.0	*5671-03*

Item	Size	pcs	Art. No.
Thread Repair Set for Glow Plugs	M9x1.0	8	5671

accessory

Item	Art. No.
Threaded Bushes M9, 11 mm long, for No. 5671, 10 pcs.	5671-1

Thread Repair Set for Glow Plugs M10x1.0

- for cleaning old threads or cutting new threads
- includes 2x 5 pcs. threaded bushes M10x1.0 with antirust coating

Content	Size	Art. No.
Thread Chaser	M10x1.0	*5672-01*
Thread Awl	for M12x1.0	*5672-02*
Thread Cutter	M12x1.0	*5672-03*

Item	Size	pcs	Art. No.
Thread Repair Set for Glow Plugs	M10x1.0	13	5672

accessory

Item	Art. No.
Threaded Bushes M10, 12 mm long, for No. 5672, 10 pcs.	5672-1
Threaded Bushes M10, 19 mm long, for No. 5672, 10 pcs.	5672-2

Thread Repair Set for Glow Plugs M10x1.25

- for cleaning old threads or cutting new threads
- includes 5 pcs. threaded bushes M10x1.25 with antirust coating

Content	Size	Art. No.
Thread Chaser	M10x1.25	*5673-01*
Thread Awl	for M12x1.25	*5673-02*
Thread Cutter	M12x1.25	*5673-03*

Item	Size	pcs	Art. No.
Thread Repair Set for Glow Plugs	M10x1.25	8	5673

accessory

Item	Art. No.
Threaded Bushes M10x1.25, 12 mm long, for No. 5673, 10 pcs.	5673-1

Thread Repair Set for Glow / Spark Plugs M12x1.25

- for cleaning old threads or cutting new threads
- includes 3x 5 pcs. threaded bushes M12x1.25 with antirust coating

Content	Size	Art. No.
Thread Chaser	M12x1.25	*5674-01*
Thread Awl	for M14x1.25	*5674-02*
Thread Cutter	M14x1.25	*5674-03*

Item	Size	pcs	Art. No.
Thread Repair Set for Glow / Spark Plugs	M12x1.25	18	5674

accessory

Item	Art. No.
Threaded Bushes M12, 12 mm long, for No. 5674, 10 pcs.	5674-1
Threaded Bushes M12, 19 mm long, for No. 5674, 10 pcs.	5674-2
Threaded Bushes M12, 26 mm long, for No. 5674, 10 pcs.	5674-3

Repair Kit for Spark Plug Threads M14x1.25

- for replacing damaged spark plug threads
- includes 3x 5 pcs. threaded bushes M14x1.25 with antirust coating

Content	Size	Art. No.
Specialist Thread Cutter	M14x1.25	*5365B*

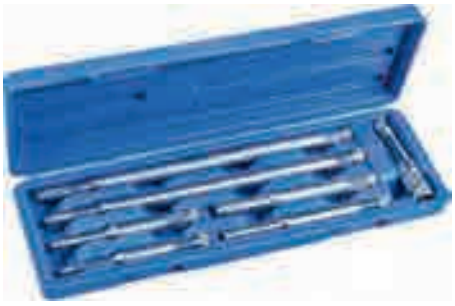
Item	Application	pcs	Art. No.
Repair Kit for Spark Plug Threads, M14x1.25	for damaged thread M14x1.25	16	5365

accessory

Item	Art. No.
Spare Threaded Bushes, M14x1.25, 11.3 mm long, 10 pcs.	*5365-1*
Spare Threaded Bushes, yellow, M14x1.25, 17.5 mm long, 10 pcs.	*5365-3*
Spare Threaded Bushes, M14x1.25, 17.5 mm long, 10 pcs.	*5365-2*

Spark and Glow Plug Thread Restorer Kit, 7 pcs.

- also for deep-seated threads in the cylinder head
- thread chaser with expandable conus allows cutting process to begin inside and move outside during procedure
- ideal also for cleaning the thread
- to prevent spark or glow plugs from getting stuck
- a clean thread is essential for smooth installation of new plugs
- e.g. for BMW, Citroen, Mercedes, Mini, Peugeot, Renault, VW
- manufactured from chrome-molybdenum steel



Content	Size	Drive	Length	Art. No.
Spark Plug Thread Restorer	M8x1.00	13 mm hex	110 mm	*5366-8*
Spark Plug Thread Restorer	M10x1.00	13 mm hex	110 mm	*5366-10*
Spark Plug Thread Restorer	M12x1.25	13 mm hex	130 mm	*5366-12K*
Spark Plug Thread Restorer	M12x1.25	13 mm hex	260 mm	5366-12
Spark Plug Thread Restorer	M14x1.25	13 mm hex	130 mm	*5366-14K*
Spark Plug Thread Restorer	M14x1.25	13 mm hex	260 mm	5366-14
Spark Plug Thread Restorer	M18x1.50	18 mm hex	90 mm	5366-18

Item	pcs	Art. No.
Spark and Glow Plug Thread Restorer Kit	7	5366

Spark Plug Thread Restorer

- for cleaning damaged and carbonised threads
- thread chaser with expandable conus
- enables cutting process to begin at thread end

Item	Size	Drive	Length	Art. No.
Spark Plug Thread Restorer	M12x1.25	13 mm hex	260 mm	5366-12
Spark Plug Thread Restorer	M14x1.25	13 mm hex	260 mm	5366-14
Spark Plug Thread Restorer	M18x1.50	18 mm hex	90 mm	5366-18

Fuel Supply and Injection

Special Taps, for screws on diesel injectors

- extra long with drive point
- for rethreading tensioning screw drill holes on injectors
- special tap length, to avoid removal of valve cover when rethreading
- M6 suitable for:
  Mercedes CDI: OM602, OM611, OM612, OM613, OM626, OM629, OM640, OM642, OM646, OM647, OM648, OM668,
  OM651 (caution: M6 and M7 are possible -> screw OE 001 990 2607)
  Citroen, Fiat, Ford: 4HU, 4HV, P22DTE
  Nissan, Opel, Renault: M9R, M9T, R9M
- M7 suitable for:
  Mercedes CDI: OM651 (M6 and M7 are possible -> screw OE 001 990 2607)

Item	Ø	Length	Material	Art. No.
Tap	M6	100 mm	HSS-G	2061-06
Tap	M7	100 mm	HSS-G	2061-07

accessory

Item	Art. No.
Tap Wrench, 1/4" sq. drive	2060-20

Injector Sealing Seat and Shaft Cleaning Set

- for diesel injectors - also on many vans and trucks
- for cleaning the injector shaft, injector nozzle and tip
- for revising the sealing seat
- with centering conus for perfect piloting
- with each 2 cleaning brushes
- with sealing plugs to avoid deposits falling into combustion chamber
- universal set, suitable for many manufacturers, e.g. Mercedes, BMW, Peugeot, Citroen, Renault, Fiat, Iveco

Content	Description	Art. No.
Main Body	with stop ring and pressure spring	*3344-01*
Injector Seat Cutter	180°, ø 19 / 17 / 15 mm	*3344-02*
Injector Seat Cutter	180°, ø 17 mm	*3344-03*
Injector Seat Cutter	120°, ø 17 mm	*3344-04*
Centering Conus	ø 18 - 20.5 mm	*3344-05*
Centering Conus	ø 16 - 21.5 mm	*3344-06*
Centering Conus	ø 18 - 24.5 mm	*3344-07*
Bit Holder, with flexible shaft		*3344-08*
Cleaning Brush for Injector Pin	300 mm long, brush 100 x 8.5 mm	3344-5
Cleaning Brush for Injector Shaft	85 mm long, brush 25 x 19.5 mm	3344-7
Holder for Brush		*3344-10*
Insertion Tool for Plugs		*3344-11*
Sealing Plugs		*3344-12*
Injector Seal Ring Remover		3560

3344-5

Item	Art. No.
Injector Sealing Seat and Shaft Cleaning Set	3344

Cleaning Brushes for Injectors

3344-7

Item	Description	Art. No.
Cleaning Brush for Injector Pin	300 mm long, brush 100 x 8.5 mm	3344-5
Cleaning Brush for Injector Shaft	85 mm long, brush 25 x 19.5 mm	3344-7

Injector Seal Ring Remover

- for removing seal rings after injector disassembly

Item	Art. No.
Injector Seal Ring Remover	3560

Injector Seat Cutter, diesel engines, 5 pcs.

- for cleaning injector seats after removing injectors
- cutters manufactured from high-alloyed chrome-molybdenum-steel (SKD11)
- suitable for many vehicles

Content	Description	Art. No.
Pilot Insertion Tool	19 mm hexagon (male)	*5305-FD*
Injector Seat Cutter	15 mm, universal	*5305-15*
Injector Seat Cutter	17 mm, for BMW, PSA, Renault	*5305-17*
Injector Seat Cutter	19 mm, for Mercedes CDI	*5305-19*
Injector Seat Cutter	17 mm, offset, for Fiat, Iveco	*5305-17W*

Item	pcs	Art. No.
Injector Seat Cutter	5	5305

Injector Teflon Seal Disassembly / Assembly Tool, BMW

- for professional replacement of the Teflon combustion chamber seal of the injector nozzle
- includes the necessary tools for removing, sliding on and compressing

Teflon sealing material expands when heated by engine temperature, providing an optimum fit and seal. The Teflon gasket at the tip of the injector must be replaced after the injector has been removed. According to the manufacturer's instructions, reuse is not permitted. The material also expands when applied to the tip of the injection nozzle and must be compressed accordingly.

Content	OEM Comparison No.	Art. No.
Removal Plier for Teflon seal	130191	*6171-01*
Assembly Tool	130281	*6171-02*
Compression tool	130282	*6171-03*
Mounting cone, pointed	130195	*6171-04*
Mounting cone	130283	*6171-05*
Compression sleeve, brass-coloured	130192	*6171-06*
Compression sleeve, short, black	130193	*6171-07*
Compression sleeve, long, black	130194	*6171-08*

Item	Art. No.
Injector Teflon Seal Disassembly / Assembly Tool	36171

for engine codes:
B38, B46, B48, N13, N14, N18, N20, N26, N43, N53, N54, N55, N63, N73, N74, S55, S63

Extractor for Common Rail Injector Needles

- for separating the injector needle from injector
- for Common-Rail injectors from Bosch, Denso, Delphi and Siemens
- spot-drilling on needle is not necessary

Item	Description	Art. No.
Extractor for Injector Needles	hardened jaw	3330

Diesel Injector Disassembly Set, Audi / VW

- for diesel engines with SDI and TDI injection systems
- for professional assembly and disassembly of diesel injectors
- also for Common-Rail and pump-nozzle injection systems
- with sliding hammer for removing tight components

Content	OEM Comparison No.	Art. No.
Striking Weight	T10155	*3390-01*
Extraction Adapter	T100552	*3385-06*
Extraction Adapter	T100551	*3385-09*
Extraction Adapter	T100553	*3385-14*
Nozzle Remover	T10163	*3385-05*
Handle	T10155	*3390-06*
Extraction Adapter	T10055	*3385-08*

Item	Art. No.
Diesel Injector Disassembly Set, Audi/VW	3390

Injector Service Tool Set, Audi / VW

- for petrol and diesel engines with FSI, SDI and TDI injection systems
- for professional assembly and disassembly of injectors
- also for Common-Rail and pump-nozzle injection systems
- with sliding hammer for removing tight components

Content	OEM Comparison No.	Art. No.
Assembly Pin	T101339	*3385-01*
Striking Weight	T10155	*3390-01*
Disassembly Sleeve	T1013318	*3385-03*
Injector Remover	T101331	*3385-04*
Nozzle Remover	T10163	*3385-05*
Extraction Adapter	T100552	*3385-06*
Extraction Adapter	T101332A	*3385-07*
Extraction Adapter	T10055	*3385-08*
Extraction Adapter	T100551	*3385-09*
Assembly Sleeve	T101336	*3385-10*
Assembly Sleeve	T101337	*3385-11*
Assembly Sleeve	T101338	*3385-12*
Assembly Cone	T101335	*3385-13*
Extraction Adapter	T100553	*3385-14*

Item	pcs	Art. No.
Injector Service Tool Set, Audi / VW	16	3385

Diesel Injector Puller for Piezo Injectors

- for 1.2, 1.4, 1.6 and 2.0 L TDI Common-Rail engines
- also for the new engines built from 2013 in VW Amarock, Arteon, Beetle II, Caddy III/IV, Eos, Golf VI/VII, Jetta III/IV, Passat (3C/36/3G/CC), Polo (6R/AW), Scirocco III, Sharan (7N), Tiguan (5N/AD/BW), Touran (1T/5T), T-Roc, T5/T6 and Crafter
- in Audi A1 (8X), A3 (8P/8V), A4 (B8/B9), A5 (8T/F), A6 (C7), Q2, Q3 (8P/8V), Q5 (8R/FY) and TT (8J)
- in Skoda Fabia II, Karoq, Octavia II/III, Rapid, Roomster, Scala, Superb II/III and Yeti
- in Seat Alhambra, Altea (5P), Arona, Ateca, Exeo, Ibiza IV/V, Leon (1P/5F), Tarraco and Toledo IV
- when disassembling the piezo injectors for sealing or engine repair

Content	OEM Comparison No.	Art. No.
Sliding Hammer	T101333	*3383-01*
Injector Adapter and Fastening	T10415	*3383-02*
Injector Adapter and Fastening	T10402	*3383-03*

Item	OEM Comparison No.	Art. No.
Diesel Injector Puller for piezo injectors	T101333, T10415, T10402	3383

for engine codes:
CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBBB, CBDA, CBDB, CBDC, CDBA, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFJB, CFWA, CGLA, CGLB, CGLC, CGLD, CGLE, CJAA, CJCA, CJCB, CJCC, CJCD, CKFB, CKFC, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLHA, CLHB, CLJA, CLLA, CLLB, CLNA, CMEA, CMFA, CMFB, CMGA, CMGB, CNEA, CNFA, CNFB, CNHA, CNHC, CRBB, CRBC, CRBD, CRKA, CRKB, CRLB, CRLC, CRLD, CRMB, CRUA, CRVA, CRVC, CSHA, CSLA, CSNA, CSUA, CSUB, CSUD, CSUE, CUSA, CUSB, CUTA, CUUA, CUUB, CUUD, CUUE, CUUF, CUVA, CUVB, CUVC, CUVD, CUVE, CUWA, CUXA, CVCA, CXMA, CXXA, CXXB, CYKA, CYKB, CYZA, CYZB, CZHA, DBBA, DBGA, DBGB, DBGC, DBKA, DCXA, DCYA, DCYB, DCZA, DDCA, DDCB, DDDA, DDYA, DDYB, DEJA, DEJB, DELA, DEUA, DEUB, DEUC, DFEA, DFEB, DFFA, DFGA, DFGB, DFGC, DFHA, DFLA, DFLD, DFSA, DFSB, DFSC, DFSD, DFSE, DFSF, DFTA, DFTB, DFTC, DGDA, DGMA, DGTA, DGTB, DGTC, DGTD, DGTE, DJGA, DLTA, DLUB

Pneumatic Puller Set for Injectors

- for dismantling seized or burnt injectors
- simultaneous vibration and impact of the pneumatic pulling hammer cause the corrosion and coking to break up and loosen the injector from its seat
- compact design for use even in confined spaces
- 19 adapters with various connection threads for the best possible coverage
- suitable for injectors from Bosch, Delphi, Denso and Siemens

Item	pcs	Art. No.
Injector Service Tool Set, Audi / VW	21	3320

Diesel Injector Puller Set, 8 pcs.

- for pulling carbonised injectors from cylinder head
- with swivel adapter, prevents canting of injector through centric pulling force
- with injector hook, for protective removal of the injector
- with 2 thread adapters, for pulling extremely tight injectors (damages injector and requires replacement)

Content	Description	pcs	Art. No.
Sliding Hammer	1.75 kg		*5427-01*
Diesel Injector Hook	jaw width 12 mm		*5427-02*
Diesel Injector Threaded Adapter	M17 x 1		*5427-03*
Diesel Injector Threaded Adapter	M27 x 1		*5427-04*
Swivel Adapter			*5427-05*
Adapter Pieces	for injector hook	2	*5427-06*

Item	pcs	Art. No.
Diesel Injector Puller Set	8	5427

Diesel Injector Thread Adapters, 6 pcs.

- for removing carbonised injectors
- connecting thread M18x1.5 for slide hammer No. 4925
- M14x1.5, for Bosch / Delphi injectors, e.g. MB (OM 629 / 642 / 646), PSA (DV4 / DW12), VW (CBD), BMW (M47)
- M17x1.0, for Bosch injectors, e.g. Alfa, BMW, Fiat, MB, PSA, Renault
- M20x1.0, for Denso injectors
- M25x1.0, for Siemens injectors, e.g. PSA (DW10)
- M27x1.0, for Siemens injectors, e.g. PSA (DW10)
- specialist injector socket bit, hexagon tamperproof, for removing the retainer ring, e.g. Bosch injectors on MB CDI and PSA HDI

Content	Description	Art. No.
Diesel Injector Thread Adapter	M14x1.5 internal thread	*3300-14I*
Diesel Injector Thread Adapter	M17x1.0 external thread	*3300-17A*
Diesel Injector Thread Adapter	M20x1.0 external thread	*3300-20A*
Diesel Injector Thread Adapter	M25x1.0 external thread	*3300-25A*
Diesel Injector Thread Adapter	M27x1.0 external thread	*3300-27A*
Injector Bit	10 mm hex (female) + bore	3310A

Item	pcs	Art. No.
Diesel Injector Thread Adapters	6	3306A

Diesel Injector Hook and Thread Adapter Set

- for removing carbonised injectors
- 5x thread adapters to screw on injectors:
  M14x1.5, for Bosch / Delphi injectors, e.g. BMW (M47), MB (OM 629 / 642 / 646), PSA (DV4 / DW12), VW (CBD)
  M17x1.0, for Bosch injectors, e.g. Alfa, BMW, Fiat, MB, PSA, Renault
  M20x1.0, for Denso injectors
  M25x1.0, for Siemens injectors, e.g. PSA (DW10)
  M27x1.0, for Siemens injectors, e.g. PSA (DW10)
- 3x disassembly hooks, protective disassembly procedure, reuse of removed injector possible:
  jaw width 12 mm, e.g. Mercedes CDI (except A-class / Sprinter / Vito)
  jaw width 13 mm, e.g. Renault, Opel or Nissan with F9Q engine
  jaw width 16 mm, e.g. Citroen C5 / Jumpy / Xsara, Fiat Ducato JTD, Peugeot 206 / 307 / 406 / Boxer (2.0 / 2.2 / 2.3 HDI)
- 1x universal joint:
  prevents canting of injector through centric pulling force
  provides high flexibility during operation, because potentially disturbing components in engine compartment can be bypassed instead of being removed
- 1x specialist injector socket bit, hexagon tamperproof, for removing the, retainer ring, e.g. Bosch injectors on MB CDI and PSA HDI
- with connecting thread M18x1.5, e.g. suitable for slide hammers Condor no. 4925 or 4928
- with storage space for accessory item Condor no. 3305/20I:
  thread adapter M18x1.5 X M20x1.5 (not included in delivery!), designed to apply injector hook and thread adapters with sliding hammers from other manufacturers (with connecting thread M20x1.5)

Content	Jaw Width	Description	Art. No.
Diesel Injector Hook	12 mm		3312
Diesel Injector Hook	13.5 mm		3313
Diesel Injector Hook	16 mm		3316
Diesel Injector Thread Adapter		M14x1.5 internal thread	*3300-14I*
Diesel Injector Thread Adapter		M17x1.0 external thread	*3300-17A*
Diesel Injector Thread Adapter		M20x1.0 external thread	*3300-20A*
Diesel Injector Thread Adapter		M25x1.0 external thread	*3300-25A*
Diesel Injector Thread Adapter		M27x1.0 external thread	*3300-27A*
Universal Joint		M18x1.5 external thread	3303
Injector Bit		10 mm hex (female) + bore	3310A

Item	pcs	Art. No.
Diesel Injector Hook and Thread Adapter Set	10	3311

accessory

Item	Art. No.
Thread Adapter, M18x1.5 (M) x M20x1.5 (F)	3305-20I
Sliding Hammer, 5 kg weight, M18x1.5, 710 mm	4925

Thread Adapter

- connecting thread M18x1.5 external and M20x1.5 internal
- designed to apply injector thread adapters with sliding hammers from other manufacturers (connecting thread M20x1.5)
- can also be used in conjunction with wheel hub flange (No. 5445-AF) and adapter (No. 5445-M18)

Item	Description	Art. No.
Thread Adapter	M20x1.5 internal thread	3305-20I

Universal Joint

- connecting thread M18x1.5 for sliding hammer No. 4925
- prevents canting of injector through centric pulling force
- provides high flexibility during operation, because potentially disturbing components in engine compartment can be bypassed instead of being removed

Item	Description	Art. No.
Universal Joint	M18x1.5 external thread	3303

Injector Bit

- for removing the retainer ring, e.g. Bosch injectors on MB CDI and PSA HDI

Item	Drive	Description	Art. No.
Injector Bit	1/2"	10 mm hex (female) + bore	3310A

Diesel Injector Thread Adapter

- for removing carbonised injectors
- connecting thread M18x1.5 for sliding hammer No. 4925
- thread adapter for e.g. Citroen C5 / Jumpy / Xsara, Fiat Ducato JTD, Peugeot 206 / 307 / 406 / Boxer (2.0 / 2.2 / 2.3 HDI), Mercedes-Benz CDI (except A-class / Sprinter / Vito)

Item	Description	Art. No.
Diesel Injector Thread Adapter	M27x1.0 internal thread	3300-27I

Diesel Injector Removal Hook

- connecting thread M18x1.5 for sliding hammer No. 4925
- protective disassembly procedure, reuse of removed injector possible
- for e.g. Mercedes-Benz CDI (except A-class / Sprinter / Vito)

Item	Jaw Width	Art. No.
Diesel Injector Hook	12 mm	3312

Diesel Injector Removal Hook

- connecting thread M18x1.5 for sliding hammer No. 4925
- protective disassembly procedure, reuse of removed injector possible
- for e.g. Renault, Opel and Nissan vehicles with F9Q engine

Item	Jaw Width	Art. No.
Diesel Injector Hook	13.5 mm	3313

Diesel Injector Removal Hook

- connecting thread M18x1.5 for sliding hammer No. 4925
- protective disassembly procedure, reuse of removed injector possible
- for e.g. Citroen C5 / Jumpy / Xsara, Fiat Ducato JTD, Peugeot 206 / 307 / 406 / Boxer (2.0 / 2.2 / 2.3 HDI)

Item	Jaw Width	Art. No.
Diesel Injector Hook	16 mm	3316

Diesel Injector Removal Hook

- connecting thread M18x1.5 for sliding hammer No. 4925
- protective disassembly procedure, reuse of removed injector possible
- for e.g. Denso injectors on Opel and Fiat

Item	Jaw Width	Art. No.
Diesel Injector Hook	26 mm	3319

Specialist Sockets for Diesel Injectors, 4 pcs.

- slotted design to include connector

Content	Profile	Size	Drive	Art. No.
Specialist Socket	hexagon	25 mm	1/2"	*4772-25*
Specialist Socket	hexagon	27 mm	1/2"	*4772-27*
Specialist Socket	hexagon	29 mm	1/2"	*4772-29*
Specialist Socket	hexagon	30 mm	1/2"	*4772-30*

Item	Size	pcs	Art. No.
Specialist Sockets	25-30 mm	4	4772

for engine codes:
DW10, DW12

Diesel Injector Remover, Citroen / Peugeot HDI

- also for identically constructed engines from Fiat, Lancia and Suzuki
- for pulling Bosch and Siemens injectors
- without disassembling cylinder head
- support structure and ball bearing produce high pulling force
- with 3 specialist disassembly sockets
- for 2.0 and 2.2 HDI-diesel engines

Content	Description	pcs	Art. No.
Drawing Spindle	M17x1.0		*3339-01*
Drawing Spindle	M25x1.0		*3339-02*
Thrust Nut	with pilot conus		*3339-03*
Support Plate	with ball bearing		*3339-04*
Support Bolt	short		*3339-05*
Support Bolt	long	2	*3339-06*
Specialist Socket	1/2", 29 mm hexagon, slotted		*3339-07*
Specialist Socket	1/2", 25 mm hexagon, slotted		*3339-08*
Specialist Socket	for No. 3339-04		*3339-10*

Item	Art. No.
Diesel Injector Remover	3339

for engine codes:
OM611, OM612, OM613

Common Rail Injector Puller

- for removing extremely tight injectors from cylinder head
- disassembly with pulling spindle and support cylinder, very high pulling force
- suitable for e.g. Mercedes CDI-engines

Content	Description	Drive	Art. No.
Extraction Spindle with Support Housing	ball bearing		*2100-01*
Specialist Socket	29 mm hex	1/2"	*2100-02*
Specialist Socket	10 mm hex (female) + bore	1/2" / 21 mm hex	*2100-03*

Item	Art. No.
Common Rail Injector Puller	2100

for engine codes:
BC2X, BCCA, BCCB, BCCC, BCCD, BCDA, BCFA, BCFB, BCRA, BJFA, BJFB, BJFC, BJFD, BJRA, BJRB, BKFA, BKFB, BKFC, BKFD, BKRA, BKRB, BLFA, BLFB, BLFC, BLFD, BLHA, BLRA, BLRB, YL2X, YLCA, YLCB, YLCC, YLDA, YLDC, YLF6, YLFA, YLFB, YLFS, YLR6, YLRA, YMCA, YMCB, YMCC, YMDA, YMF6, YMFA, YMFB, YMFS, YMHA, YMR6, YMRA, YN2X, YNCA, YNF6, YNFA, YNFB, YNFS, YNR6, YNRA

Diesel Injection Pump Installation Tool, Ford

- for 2.0 L EcoBlue TDCI 4-cylinder diesel engines
- in Ford Edge, Focus IV, Galaxy III, Kuga III, Mondeo V, Ranger (T6), S-Max II, Tourneo Custom, Transit VII and Transit Custom
- for disassembly and assembly of the injection pump
- for engine repair

Content	OEM Comparison No.	Art. No.
Base plate	30316351	*36225-01*
Ejector spindle	30316352	*36225-02*
Support bolt (3 pcs.)	30316353	*36225-03*
Retractable spindle	30316356	*36225-04*
Retractable spindle	30316357	*36225-05*

Item	Art. No.
Diesel Injection Pump Installation Tool, Ford	36225

Fuel Pump Timing Tool, Renault

- also for identically constructed engines from Mitsubishi, Opel and Volvo
- for 1.9 L Renault diesel direct injection engines
- in Renault Megane, Scenic and Kangoo
- in Mitsubishi Carisma and in Volvo S40 and V40
- in Opel Arena and Movano

Content	OEM Comparison No.	Art. No.
Timing Wrench with Pins	KM6035A	*5620-01*
Timing Wrench	KM6034	*5620-02*
Knurled Screw		*5620-03*

Item	Art. No.
Fuel Pump Timing Tool, Renault 1.9 F8Q/F9Q	5620

for engine codes:
F8Q, F9Q

Locking Tool, high-pressure pump sprocket

- for identically constructed engines from Nissan, Opel and Renault
- For locking the high-pressure pump sprocket during assembly and disassembly of the high-pressure pump. Avoids subsequent timing adjustments, because timing belt is not removed. Provides time and cost savings.
- in Renault Megane, Scenic and Kangoo
- in Nissan vehicles
- in Opel Arena and Movano

Item	OEM Comparison No.	Art. No.
Locking Tool, high-pressure pump sprocket	KM6239	5621

for engine codes:
F9Q

Priming & Bleeding Set for Diesel Fuel Lines

- for venting the low-pressure side, e.g. after replacing diesel filters, high-pressure pumps and other components on diesel injection systems
- enables diesel fuel to be drawn in, e.g. to fill the new filter
- 6 hoses with vehicle-specific adapters for direct integration into the system
- prevents damage to CDI high-pressure pumps due to air in the system
- transparent hoses for better detection of air bubbles

Item	pcs	Art. No.
Priming & Bleeding Set	12	3370

accessory

Item	Art. No.
Connection Adapter, for using vacuum systems like No. 3551 and 3552	3370-AD

3370-AD

Line Clamp Kit, 8 pcs.

- for sealing off open lines during maintenance
- stops fluid leaks and avoids mess
- designed for metal and plastic lines
- suitable for e.g. fuel, brake and hydraulic lines

Content	Application	Quantity	Art. No.
Line Clamps	for line-ø 5/16" (8 mm)	2 pcs.	*4788-08*
Line Clamps	for line-ø 3/8" (10 mm)	2 pcs.	*4788-10*
Line Clamps	for line-ø 1/2" (13 mm)	2 pcs.	*4788-13*
Line Clamps	for hollow bolts (banjo connections)	2 pcs.	*4788-BJ*

Item	pcs	Art. No.
Line Clamp Kit	8	4788

Fuel Line Sealing Plug Set, 12 pcs.

- for sealing off disconnected diesel and petrol lines with push/pull quick connectors
- for maintenance and inspection work, e.g. fuel filter replacement
- content:
  2x plug connector 5/16"
  2x plug connector 3/8"
  2x plug connector 10 mm
  2x quick coupler 5/16"
  2x quick coupler 3/8"
  2x quick coupler 10 mm

Item	pcs	Art. No.
Fuel Line Sealing Plug Set	12	4789

Injection Line Wrench, Audi / VW

- suitable for TDI-engines from Audi / VW
- for diesel injection lines on distributors and in-line injection pumps
- for hard to reach injectors
- also for sensors and senders with cable connections
- special offset and angled design

Item	Profile	Size	OEM Comparison No.	Art. No.
Injection Line Wrench	bi-hexagon	17x17 mm	3035	4078

Injection Line Wrench, PSA

- suitable for HDi-engines from PSA
- for diesel injection lines on distributors and in-line injection pumps
- for hard to reach injectors
- also for sensors and senders with cable connections
- special offset and angled design

Item	Profile	Size	Art. No.
Injection Line Wrench	bi-hexagon	14x14 mm	4074

Triangular Sockets, for Bosch injection pumps, 2 pcs.

- for removing the specialist triangular screws on the quantity adjuster cover
- found in high pressure and distributor pumps
- for Bosch Common-Rail and TDI injection pumps
- required for disassembly and assembly jobs, e.g. when sealing the pump

Content	Profile	Size	Drive	Application	Art. No.
Socket	3-point	7 mm	1/4"	Bosch VP37 and EDC96-03	*4782-01*
Socket	3-point	13.6 mm	1/4"	Bosch VE pumps	*4782-02*

Item	Profile	Drive	pcs	Art. No.
Triangular Socket Set	3-point	1/4"	2	4782

Socket Set, 5 pcs.

- for specialist automotive screw connections
- for Bosch diesel injectors
- for VW TDI-injection pump volume regulators
- also used for control panel constructions

Content	Profile	Size	Drive	Art. No.
Specialist Socket	3-point	M5	1/2"	*4777-05*
Specialist Socket	3-point	M6	1/2"	*4777-06*
Specialist Socket	3-point	M8	1/2"	*4777-08*
Specialist Socket	3-point	M10	1/2"	*4777-10*
Specialist Socket	3-point	M12	1/2"	*4777-12*

Item	Profile	Size	Drive	pcs	Art. No.
Specialist Sockets	3-point	M5-12	1/2"	5	4777

Line Disconnection Set, 22 pcs.

- universal assortment - suitable for all popular vehicles
- for releasing line connectors on radiator, fuel, air and oil lines

Content	Description	pcs	Art. No.
Circle Release Tool	5/16"		*3536-01*
Circle Release Tool	3/8"		*3536-02*
Circle Release Tool	1/2"		*3536-03*
Circle Release Tool	5/8"		*3536-04*
Circle Release Tool	3/4"		*3536-05*
Circle Release Tool	7/8"		*3536-06*
Folding Release Tool	air conditioning 6, 8, 10, 12	4	*3536-07*
Open Ring Release Tool	hydraulic pipe		*3536-08*
Release Lever			*3536-09*
Fork Release Tool			*3536-10*
Double Circle Release Tool	air conditioning 5/16" and 3/8"		*3536-11*
Line Connector Removal Clip	6.4 mm (1/4") - 22.2 mm (7/8")	7	3538

Item	Art. No.
Line Disconnection Set	3536

Line Connector Removal Clips, 7 pcs.

- universal set
- for radiator and fuel lines with 6.4 mm (1/4"), 7.9 mm (5/16"), 9.5 mm (3/8"), 12.7 mm (1/2"), 15.9 mm (5/8"), 19 mm (3/4") and 22.2 mm (7/8")

Item	Description	pcs	Art. No.
Line Connector Removal Clip	6.4 mm (1/4") - 22.2 mm (7/8")	7	3538

Fuel Line Pliers

- for locked connectors on fuel filters and lines
- required for fuel filter replacement or engine repairs
- for disassembly pull back the locking device, for assembly push forward
- for Audi, VW, Seat, Skoda, Fiat, Mercedes, Opel, GM

Item	Description	Art. No.
Fuel Line Pliers	offset	3535

Line Connector Pliers, bowden wire 650 mm

- for loosening quick coupler twin push button connectors
- for fuel lines, cooling systems and water lines
- ideal for hard to reach spaces
- with locking function

Item	Length	Description	Art. No.
Line Connector Pliers	650 mm	with bowden wire	3533

Fuel Line Pliers

- for releasing connection with snap-in pins
- e.g. when replacing fuel filters
- angled design for hard to reach areas
- suitable for e.g. Volvo, Audi, VW, Seat, Skoda, Alfa, Fiat, Lancia etc.

Item	Description	Art. No.
Fuel Line Pliers	90° offset	3537

Fuel Line Disconnection Pliers, 3 pcs.

- for releasing fuel line connections
- suitable for e.g. Audi, VW, Seat, Skoda, Chrysler, Chevrolet, Citroen, Fiat, Ford, Opel, Peugeot, Citroen etc.

Item	Length	pcs	Art. No.
Fuel Line Disconnection Pliers	115 mm	3	3539

4728

4729

Hose Clamp Pliers

- for loosening fuel line hose clamps
- specially designed jaws for three-ended hose clamps, with the ends resting flat on the hose
- also suitable for various other self-tensioning hose clamps
- e.g. for fuel and tank ventilation lines on recent models from VW, Audi, Skoda, Seat

Item	Description	Art. No.
Hose Clamp Pliers	90° application	4728
Hose Clamp Pliers	flat application	4729

Hose Clamp Pliers, Audi / VW

- suitable for VW specialist clamps with parallel clamp ends
- e.g. for intercooler nozzle VW 2.0 TDI (BKD)
- suitable for Audi A3, VW Golf 5, Passat, Touran
- plier with ratchet mechanism and release lever

Item	Length	Description	Art. No.
Hose Clamp Pliers	630 mm	with bowden wire	4751

Special 2-in-1 hose clamp socket, 3-point/tri-point

- for loosening and tightening the new safety clamps with special 3-point/Tri-Point profile, e.g. on air inlet hose
- 2-in-1 socket for 30-45 mm and 60-80 mm, 11 mm hexagonal drive
- for use with Mercedes, Opel, PSA, Renault, Smart, etc.

Item	Art. No.
Special hose clamp socket	4734

Assembly Lever for UFI Filter Housing, incl. 2 adapters

- to avoid leakage through damaged housing
- for Audi / VW 2.0L TDI engines
- incl. 2 adapters for new generation vehicles, e.g. VW Golf VII / Audi A3 / Seat Leon

application:
When assembling the UFI fuel filter housing, the housing lid can easily get damaged, which can cause a leakage to the fuel system.
This assembly lever holds down the housing lid before the fixing bolts are tightened. The bolts can now be fastened crosswise and damage caused through deforming is avoided.

Item	Art. No.
Assembly Lever	4857

Fuel Filter Socket

- to operate the plastic connection without causing damage
- suitable for tightening with torque wrench
- for Peugeot and Citroen 2.0 / 2.2L HDI-engines
- also for identically constructed engines from Fiat, Ford, Lancia, Mitsubishi, Volvo

Item	Profile	Size	Drive	Art. No.
Fuel Filter Socket	hexagon	27 mm	1/2"	4854

Fuel Tank Sender Spanner

- universally suitable for ø 75 - 160 mm
- simplifies assembly and disassembly of plastic locking nut on fuel tank sender

Item	Ø	Drive	Art. No.
Fuel Tank Sender Spanner	75 - 160 mm	24 mm hex	4850

Diesel Fuel Filter Remover, 2 pcs.

- prevents damage to filter housing
- suitable for tightening with torque wrench
- for Opel and Fiat/Lancia engines
- Disassemble filter housing and place together with protection sleeve in vice. Then use wrench to remove lid from housing and replace filter element.

Content	Drive	Art. No.
Fuel Filter Socket	1/2"	*4855-01*
Fuel Filter Clamp		*4855-02*

Item	Art. No.
Diesel Fuel Filter Remover	4855A

for engine codes:
D13A, Z13DT, Z13DTH, Z13DTJ, Z19DT, Z19DTL, Z19DTH

Diesel fuel filter release spanner, 1/2", Ford

- in Ford Transit with 2.2 L TDCi engine
- for damage-free loosening and tightening of the fuel filter cover
- prevents damage to the fuel filter housing and fastening ring
- required for changing the fuel filter element
- suitable for tightening with torque spanner

Item	Art. No.
Fuel filter release spanner	35620

Special Loosening Wrench for AdBlue® Filler Caps, Citroen / Peugeot

- in Citroen Berlingo, C3, C3 Picasso, C4 Cactus, C4 Picasso, C4 Grand Picasso, C5, DS3 and Jumpy
- in Peugeot 208, 307, 308, 308SW, 508, 508SW, 2008, Expert, Partner, Rifter and Traveller
- for damage-free loosening and tightening of the hard-to-reach AdBlue® filler cap screw connection
- required when fuel filler cap is stuck, e.g. due to crystallised urea or over-tightening
- with 3/8" sq. drive and 17 mm external hexagon

Item	Drive	Art. No.
Special Loosening Wrench	3/8" / 17 mm hex	4880

Testing Equipment

Common Rail High Pressure Tester, max. 2000 bar

- Most modern diesel vehicles usually have common rail systems, which operate with pressure above 1000 bar. Trouble Shooting often takes place by tracking the digital signals of pressure sensors in the vehicle. But malfunctioning or wrongly set sensors can lead to inaccurate results. The Condor Common Rail High Pressure Tester measure the real pressure with an analog 2000 bar glycerin-filled manometer, manufactured from stainless steel.
- manometer max. 2000 bar, stainless steel with protective rubber coating, relief valve 1400 bar
- testing functions:
  starting pressure of high pressure pump
  operating pressure in various rpm ranges – also on running engine
  maximum pressure of high pressure pump
  leaks and dripping of individual injectors
  accessory kit Nr. 3351 allows to check the correct functioning of the high pressure pump and pressure sensor

Content	Size	Length	Quantity	Art. No.
Stainless Steel Manometer, 2000 bar				*3350-01*
Connection Hose	M12x1.5	550 mm	2 pcs.	*3350-02*
Connection Hose	M14x1.5	550 mm	2 pcs.	*3350-03*
Thread Adapter	M12x1.25		2 pcs.	*3350-04*
Thread Adapter	M14x1.25		2 pcs.	*3350-05*
Screw Cap	M12x1.5		6 pcs.	*3350-06*
Screw Cap	M14x1.5		6 pcs.	*3350-07*
Waste Collection Bottle				*3350-08*

Item	Measuring Range	Art. No.
Common Rail High Pressure Tester	2000 bar	3350

Adapter Set for Common-Rail Tester No. 3350, 9 pcs.

- extends the scope of applications for common rail high pressure tester Nr. 3350:
  testing for correct functioning of the pressure sensor
  testing for correct functioning of the high pressure pump
- includes comprehensive o-ring assortment

Item	pcs	Art. No.
Adapter Set for Common-Rail Tester No. 3350	9	3351

Common Rail Return Flow Pressure Tester

- troubleshooting by measuring the return flow pressure
- for new generation Piezo injectors from Bosch, Delphi and Siemens

Content	Description	Application	Art. No.
Manometer	-1 - 15 bar	Bosch, Siemens	*3355-01*
Manometer	-1 - 3 bar	Delphi	*3355-02*
Measuring block	with sight glass and drain valve		*3355-03*
Connection Hoses	2 pcs.	Siemens	*3355-04*
Connection Hoses	2 pcs.	Delphi	*3355-05*
Connection Hoses	2 pcs.	Bosch	*3355-06*
Cone connector			*3355-07*

Item	Art. No.
Common Rail Return Flow Pressure Tester	3355

Common Rail Return Flow Tester, 37 pcs.

- troubleshooting by measuring the return flow of diesel injectors
- simultaneous measurement of up to 6 injectors
- measurement conducted either with directly connectable flasks or with measuring bottles and connecting hoses
- includes holding bar with hooks for measuring bottles

Content	Quantity	Description	Art. No.
Return Flow Measuring Flask	6 pcs.		*3530-01*
Return Flow Measuring Bottle	6 pcs.	with 70 cm connection hose	*3530-02*
Holding Bar	1 pcs.	with hook	*3530-03*
Adapter	6 pcs.	for Denso injectors	*3531-01*
Adapters	6 pcs.	for Bosch injectors	*3531-02*
Adapters	6 pcs.	for Siemens injectors	*3531-03*
Plastic Adapter	6 pcs.	for Delphi injectors	*3531-04*

Item	pcs	Art. No.
Common Rail Return Flow Tester	37	3532

Smoke Leak Detector „Fog-System“

- professional smoke generator for quickly locating leaks on the vehicle, e.g. on seals, throttle valve shafts, engine blocks, intake, exhaust, crankcase and air charge systems, tank, fuel, AdBlue® and additive systems, cooling and wiper water systems and various fittings
- integrated compressor for testing with air pressure, continuously adjustable via rotary control
- pressure gauge for determining pressure drop and smallest leaks
- fog function for leaks that are difficult to locate, can be switched on and off at any time
- automatic switch-off of the fog generator in the event of overheating
- with comprehensive sealing plug set incl. practical inflation adapter, e.g. for sealing hoses during testing
- suitable for use with UV leak detection agents, which, in conjunction with UV goggles and lamp, enables even faster leak detection
- fog oil drain plug for emptying when not in use for longer periods
- power supply either via 220 V power adapter or 12 V vehicle battery for maximum mobility and flexibility

Item	Description	Art. No.
Smoke Leak Detector	220V power adapter or 12V vehicle battery	9710

Leak Detector for Turbo Charger Systems in Combustion Engines

- extra flat design with 90° offset air coupler for confined engine spaces
- for safe and quick checking for leaks in the turbo charger system
- suitable for all turbo charger systems with hose connections
- not suitable for bajonett connections
- can be operated with any common tire air inflator, no additional tools required
- also suitable for drained cooling systems
- also suitable for checking the exhaust gas recirculation valve, depending on vehicle specifications
- hose with pressure relief valve, to prevent damage from too high testing pressure
- 6 pairs of plug adaptors, each pair one adaptor with and one without air coupler

Content	Ø	pcs	Art. No.
Plug Adaptor Set	31 + 38 mm	2	*5036-31*
Plug Adaptor Set	46 + 51 mm	2	*5036-46*
Plug Adaptor Set	55 + 60 mm	2	*5036-55*
Plug Adaptor Set	65 + 70 mm	2	*5036-65*
Plug Adaptor Set	75 + 80 mm	2	*5036-75*
Plug Adaptor Set	85 + 90 mm	2	*5036-85*
connection hose with pressure relief valve			*5036-AS*

Item	pcs	Art. No.
Leak Detector for Turbo Charger Systems	13	5036

Leak Detector for Turbo Charger Systems in Combustion Engines

- suitable for all turbo charger systems with bajonett connections
- for safe and quick checking for leaks in the turbo charger system
- extra flat plug connectors for narrow working spaces
- can be operated with any common tire air inflator, no additional tools required
- can be used in combination with leak detection spray, to identify and localize very small leaks
- also suitable for checking the exhaust gas recirculation valve, depending on vehicle specifications
- hose with pressure relief valve, to prevent damage from too high testing pressure

Content	Ø	pcs	Art. No.
Plug Adaptor Set	31 mm	2	*5035-31*
Plug Adaptor Set	38 mm	2	*5035-38*
Plug Adaptor Set	46 mm	2	*5035-46*
Plug Adaptor Set	51 mm	2	*5035-51*
Plug Adaptor Set	56 mm	2	*5035-56*
Plug Adaptor Set	61 mm	2	*5035-61*
connection hose with pressure relief valve			*5036-AS*

Item	pcs	Art. No.
Leak Detector for Turbo Charger Systems	13	5035

Vacuum Hand Pump Set

- solid metal construction
- for inspection and setting low-pressure systems e.g. on ignition control, carburetor, exhaust gas recirculation, central locking, turbocharger timing
- for suction extraction of various fluids, e.g. when changing brake fluid

Content	Description	pcs	Art. No.
Vacuum Hand Pump	with manometer		*3557-01*
Drain Bottle	with lids		*3557-02*
Adapter Set	for connection with other hose diameters	19	*3557-03*
Connection Hoses	length 60 cm	2	*3550-04*

Item	Art. No.
Vacuum Hand Pump Set	3557

Vacuum / Pressure Tester

- 2-way function to produce either vacuum or pressure
- suitable for brake bleeding and for testing various vacuum and pressure functions on vehicles
- supplied with comprehensive range of accessories, suitable for all popular vehicles

Content	Description	pcs	Art. No.
Vacuum / Pressure Tester	with manometer		*3550-01*
Drain Bottle Set		2	*3550-02*
Adapter Set	for connection with other hose diameters	23	*3550-03*
Connection Hoses	length 60 cm	2	*3550-04*

Item	Art. No.
Vacuum / Pressure Tester	3550

Cylinder Leak Detector

- troubleshooting without disassembling cylinder head
- to diagnose compression faults on:
  inlet and exhaust valves
  piston rings and cylinder chamber
  cylinder head and gaskets

Content	Description	Length	Art. No.
Test Tool with 2 Manometers	inlet pressure 0-7 bar / leakage 0-100 %		*3549-01*
Adapter	M10x1.0	25 mm	*3549-02*
Adapter	M12x1.25	25 mm	*3549-03*
Adapter	M14x1.25	25 mm	*3549-04*
Adapter	M12x1.25	220 mm	*3549-05*
Adapter	M14x1.25	220 mm	*3549-06*
Adapter	M14x1.25	40 mm	*3549-07*
O-Ring Assortment			*3549-09*
Connection Hose	suitable for adapters from Nr. 3541	470 mm	*3549-10*
Connection Hose	combined M14x1.25/M18x1.5	670 mm	*3549-11*

Item	Art. No.
Cylinder Leak Detector	33549

Engine Compression Tester Set, diesel

- comprehensive assortment, suitable for the most common diesel engines
- with pressure gauge (0-70 bar) and hose connection with quick coupling
- 12 adapters, suitable for glow plug and injection nozzle threads
- incl. angled connection adapter and gasket assortment

Content	Length	Description	Art. No.
Manometer with Hose	560 mm	0 - 70 bar	*3541-01*
Adapter Glow Plug	115 mm	M10x1.25	*3541-03*
Adapter Injector	114 mm	ø 21 mm	*3541-05*
Adapter Glow Plug	119 mm	M10x1.0	*3541-06*
Adapter Injector	75 mm	M20x1.5	*3541-07*
Adapter Injector	75 mm	M24x2.0	*3541-08*
Adapter Glow Plug	54 mm	M12x1.25	*3541-09*
Adapter Glow Plug	74 mm	M10x1.25	*3541-10*
Adapter Glow Plug	117 mm	thread M9 x 1	3541-14
Adapter Glow Plug	83 mm	thread M10x1.0	33541-12
Adapter Glow Plug	134 mm	thread M10x1.0, with pin	33541-19
Adapter Glow Plug	140 mm	thread M8x1.0, 105 mm	33541-70
Adapter Glow Plug	150 mm	thread M8x1.0, 112 mm	33541-55
Angle Adapter		90° offset	*3541-12*
Tensing Bracket Injector	63.5 mm		*3541-11*
Gasket Assortment			*3541-13*

Item	Art. No.
Engine Compression Tester Set	33541

Engine Compression Tester Adapters

Item	Length	Description	Art. No.
Adapter Glow Plug	83 mm	thread M10x1.0	33541-12
Adapter Glow Plug	134 mm	thread M10x1.0, with pin	33541-19
Adapter Glow Plug	134 mm	thread M8x1.0, 81 mm	33541-35
Adapter Glow Plug	160 mm	thread M8x1.0, 122 mm	33541-52
Adapter Glow Plug	150 mm	thread M8x1.0, 112 mm	33541-55
Adapter Glow Plug	175 mm	thread M8x1.0, 135 mm	33541-56
Adapter Glow Plug	100 mm	thread M8x1.0, 66 mm	33541-69
Adapter Glow Plug	140 mm	thread M8x1.0, 105 mm	33541-70
Adapter Glow Plug	133 mm	thread M8x1.0, 96 mm	33541-72

Adapter Glow Plug, M9x1

- addition to set No. 3541
- partly also suitable for sets of other manufacturers

Item	Length	Description	Art. No.
Adapter Glow Plug	117 mm	thread M9 x 1	3541-14

Testing Tool for Diesel Injectors

- for diesel engines with max. 600 bar injection pressure
- for testing the spraying function for:
  leaks
  opening pressure of nozzles
  spraying pattern
- includes 2 connectors

Content	Description	Art. No.
Testing Tool For Diesel Injectors	max. 600 bar	*3546-GG*
Connection Piece	M12x1.5	*3546-M12*
Connection Piece	M14x1.5	*3546-M14*

Item	Art. No.
Testing Tool for Diesel Injectors	3546

Digital Compression Test Kit

- for petrol engines in cars and motorcycles
- with digital manometer and quick coupler, display in kpa / bar / mpa / psi and kg/cm²
- with data-hold-function and memory function for measurements of up to 16 cylinders
- illuminated display
- with 4 adapters, for spark plug threads
- with 2 rubber-coated thrust pieces, straight and bent

Content	Description	Art. No.
Digital Manometer	0 - 20 bar	*3548-01*
Adapter	M10x1.0	*3548-02*
Adapter	M12x1.25	*3548-03*
Adapter	M14x1.25	*3548-04*
Hose, 300 mm	M14/M18	*3548-05*
Pressure Piece, for manual use	offset - rubber-coated	*3548-06*
Pressure Piece, for manual use	straight - rubber-coated	*3548-07*

Item	Art. No.
Digital Compression Test Kit	33548

Engine Compression Tester

- for measuring compression pressure on petrol engines
- flexible hose, length 300 mm
- manometer with 0 - 20 bar display
- combined connector M14x1.25 / M18x1.5

Item	Measuring Range	Art. No.
Engine Compression Tester	0 - 20 bar	3540

Fuel Injection Pressure Testing Kit

- for engines with petrol injection
- with manometer
- with hose connector assortment
- with comprehensive adapter assortment for German, American and Japanese vehicles
- suitable for following injection systems:
  CIS-Digital, DIGIFANT 1 and 2, EFI, K- / L-/ LH-Jetronic, Motronic, MPFI, Single Point and Multipoint, SPI, TBI and Weber CFI

Content	Description	Art. No.
Manometer	0 - 8 bar	*351-01*
Hose Kit	5 pcs., with 3-way valve	*351-02*
Adapter Assortment	30 pcs.	*351-03*

Item	Art. No.
Fuel Injection Pressure Testing Kit	351

Oil Pressure Test Kit

- for oil pressure measurement and diagnosis of leaks in the oil system
- manometer with scale from 0 - 10 bar (0 - 145 psi, tolerance +/-5%) and flexible hose, length 1150 mm
- connection adapter in metric and inch

Content	Description	Art. No.
Manometer with Hose	0 - 10 bar	*3544-01*
Adapter	M10x1.0	*3544-02*
Adapter	M12x1.5	*3544-03*
Adapter	M14x1.5	*3544-04*
Adapter	M16x1.5	*3544-05*
Adapter	M18x1.5	*3544-06*
Adapter	R1/8 DIN 2999	*3544-07*
Adapter	1/8x27 NPT	*3544-08*
Adapter	1/4x18 NPT	*3544-09*
Adapter	1/2x20 UNF	*3544-10*
Adapter	3/8x20 UNF	*3544-11*
Adapter	3/8x24 UNF	*3544-12*
Adapter	M12x1.75	*3544-14*
Angle Adapter	90° offset	*3541-12*

Item	pcs	Art. No.
Oil Pressure Test Kit	14	33544

Carburetor Synchroniser

- for synchronising carburetors on cars and motorcycles
- suitable for up to 4 carburetors

Content	Description	Art. No.
Manometer Bar	with 4 manometers	*3547-01*
Connection Hoses	4 pcs. set	*3547-02*
Connection Nipples	17 pcs. set	*3547-03*

Item	Art. No.
Carburetor Synchroniser	3547

Radiator Pressure Tester for Trucks

- comprehensive set with pressure pump with manometer (0 – 2.5 bar), pressure hose and seven radiator test caps for many popular trucks
- for testing leak tightness in radiators and other cooling systems
- for testing correct functioning of the pressure-relief valve at the sealing of the radiator or expansion tank
- pressure loss control through manometer on pressure pump

Content	Description	for Manufacturer	Art. No.
Pressure Pump with Manometer	0 - 2.5 bar		*5043-DP*
Pressure Hose	550 mm		*5043-SL*
Adapter No. 1		DAF, ERF	*5043-01*
Adapter No. 2		Scania	*5043-02*
Adapter No. 3		Volvo	*5043-03*
Adapter No. 4		Iveco, MAN, Renault	*5043-04*
Adapter No. 5		MAN	*5043-05*
Adapter No. 6		DAF, Iveco, MAN, MB, Volvo	*5043-06*
Adapter No. 7		MB	*5043-07*

Item	pcs	Art. No.
Radiator Pressure Tester for Trucks	9	5043

Pressure Tester and Refill Tool for Radiators

- for many popular cars and vans
- comprehensive set with pressure and vacuum pumps, thermometer and radiator test caps
- for testing leak tightness in radiators and other cooling systems
- for testing correct functioning of the pressure-relief valve at the sealing of the radiator or expansion tank
- pressure loss control through manometer on pressure pump
- measuring range 0 - 2.5 bar
- for testing radiator caps
- includes vacuum pump for cleaning and filling cooling systems

Content	Description	Art. No.
Vacuum Pump	-1 - 0 bar	*5044-VP*
Adapter No. 22	green	355A-22
Cooling Fluid Hose	1300 mm	*5044-KS*
Rubber Cone	universal	*5044-GK*
Hand Pump, with manometer and hose	0 - 2.5 bar	*355A-01*
Thermometer	0 - 200° C	*355A-0*
Connection Adapter, No. 2A, R123 / R124	black	*355A-02A*
Connection Adapter, No. 2B, R123 / R125	blue	*355A-02B*
Adapter No. 3	metal	*355A-03*
Adapter No. 4	metal	*355A-04*
Adapter No. 5	metal	*355A-05*
Adapter No. 6	orange	*355A-06*
Adapter No. 7	brown	*355A-07*
Adapter No. 8	white	*355A-08*
Adapter No. 9	purple	*355A-09*
Adapter No. 10	grey	*355A-10*
Adapter No. 11	red	*355A-11*
Adapter No. 12	green	*355A-12*
Adapter No. 13	blue	*355A-13*
Adapter No. 14	yellow	*355A-14*
Adapter No. 15	pink	*355A-15*
Adapter No. 16	purple	*355A-16*
Adapter No. 17	blue	*355A-17*
Adapter No. 18	green	*355A-18*
Adapter No. 19	pink	*355A-19*
Adapter No. 20	white	*355A-20*
Adapter No. 21	ochre	355A-21
Tensioner Wrench	black	*355A-SP*

Item	pcs	Art. No.
Pressure Tester and Refill Tool for Radiators	28	5044

Radiator Pressure Test Kit

- for leak detection in radiators and heaters and checking the correct functioning of the pressure-relief valve at the radiator sealing respectively expansion tank

Content	Description	Art. No.
Hand Pump, with manometer and hose	0 - 2.5 bar	*355A-01*
Thermometer	0 - 200° C	*355A-0*
Connection Adapter, No. 2A, R123 / R124	black	*355A-02A*
Connection Adapter, No. 2B, R123 / R125	blue	*355A-02B*
Adapter No. 3	metal	*355A-03*
Adapter No. 4	metal	*355A-04*
Adapter No. 5	metal	*355A-05*
Adapter No. 6	orange	*355A-06*
Adapter No. 7	brown	*355A-07*
Adapter No. 8	white	*355A-08*
Adapter No. 9	purple	*355A-09*
Adapter No. 10	grey	*355A-10*
Adapter No. 11	red	*355A-11*
Adapter No. 12	green	*355A-12*
Adapter No. 13	blue	*355A-13*
Adapter No. 14	yellow	*355A-14*
Adapter No. 15	pink	*355A-15*
Tensioner Wrench	black	*355A-SP*

Item	Art. No.
Radiator Pressure Test Kit	355A

Radiator Cap No. 23

- for sets No. 355A and 5044
- for new generation vehicles from Audi / VW
- for expansion tanks with internal thread M45 x 3
- suitable for:
  Audi A1, A3, A4, A5, A6, A7, A8, Q2, Q3, Q5, Q7, R8, TT, TTS and TTRS
  VW Amarok, Beetle, Bora, Caddy, Eos, Golf, Jetta, Passat, Phaeton, Polo, Scirocco, Sharan, T5 (also Multivan/Caravelle), Tiguan, Touareg, Touran and up!
  Seat Alhambra, Altea, Cordoba, Exeo, Ibiza, Leon, Mii and Toledo
  Skoda Citigo, Fabia, Octavia, Rapid, Roomster, Superb and Yeti
  Porsche Carrera

Item	Description	Art. No.
Adapter No. 23	pink / grey	355A-23

Radiator Cap No. 21

- for sets No. 355A and 5044
- suitable for:
  Fiat Croma years ´05-´13
  Ford Fusion years ´06-´12
  Mazda 6 year 2006
  Vauxhall Astra years ´04 -´13 / Astra Cabrio years ´03-´05 / Astra Coupe years ´03-´05 / Astra GTC years ´05-´11 / Corsa years ´06-´13 / Meriva years ´06-´10 / Signum years ´03-´08 / Vectra years ´02-´08 / Vectra years ´02-´08 / Zafira years ´05-´11
  Saab 9-3 years ´03-´12 / 9-3 Sport years ´02-´12 / 9-3 X years ´09-´12

Item	Description	Art. No.
Adapter No. 21	ochre	355A-21

Radiator Cap No. 22

- for sets No. 355A and 5044
- suitable for:
  BMW 5-series, 7-series, GT, X5, X6
  Land Rover, Range Rover years ´03-´07
  Mini Cooper, Cooper Cabrio, Cooper S, Cooper S Cabrio, Cooper Clubman, Cooper S Clubman, Cooper Countryman, Cooper Coupe, Mini One, One Countryman, Coupe, Roadster, Mini Cooper Works

Item	Description	Art. No.
Adapter No. 22	green	355A-22

Vacuum Cooling System Refill Tool

- suitable for almost all water-cooled engines
- The vacuum cooling system refiller produces a vacuum in the entire cooling system. This allows for leak detection. The existing vacuum permits bubble-free refilling of the cooling system without the necessity of subsequent bleeding.
- universal rubber cone, with 2 interchangeable extension pieces

Content	Description	Art. No.
Underpressure Filling Device	with manometer and hose	*5045-01*
Air Connection Hose		*5045-02*
Cone Kit	2 pcs., with quick coupler	*5045-03*

Item	Art. No.
Vacuum Cooling System Refill Tool	5045

Universal Radiator Pressure Adapter

- for all cooling systems without inner thread on seal
- suitable for ø 30 - 50 mm through interchangeable rubber seal attachments
- high cost efficiency, replaces many conventional bayonet and screw connectors
- solid metal body - worn out rubber seal attachments available as spare part
- accessory to No. 355A and No. 5044

Content	Description	pcs	Art. No.
Tensioning Device, quick coupler	with rubber seal attachment 30-35 mm		*5041-01*
Rubber Seal Attachments	35-40 / 40-45 / 45-50 mm	3	*5041-02*

Item	Art. No.
Universal Radiator Pressure Adapter	5041

CO^2-Tester

- suitable for all water-cooled engines
- testing system offers easy and fast approach to locate damage in cylinder head, gaskets and engine block; inspection is carried out by detecting CO^2 in the cooling liquid
- with rubber seal conus, contrast agent and 2-way valve

Content	Description	Art. No.
Test Cylinder	with rubber seal conus	*5046-01*
Rubber Bellow	vacuum	*5046-02*
2-Way Valve	with quick coupler	*5046-03*
Contrast Agent	250 ml	5046-04

Item	Art. No.
CO^2-Tester	5046

Contrast Agent, 250 ml

- spare contrast agent for CO^2 tester No. 5046

Item	Description	Art. No.
Contrast Agent	250 ml	5046-04

Refractometer 4 in 1

- also suitable for measuring AdBlue® quality
- adjustable ocular with calibration function
- includes 2 pipettes
- for measuring:
  antifreeze in cooling water (propylene and ethylene)
  antifreeze in windscreen water
  battery acid (battery charge condition)
  urea (AdBlue® quality)

Item	Description	Art. No.
Refractometer, 4 in 1	also for AdBlue® quality	5030

Infrared Thermometer

- precise temperature measurement with infrared technology
- with leaserpointer for exact locating of measurement objective
- reversible °C / °F, illuminated lcd-display, distance ratio 12:1

Item	Measuring Range	Art. No.
Infrared Thermometer	-50°C to +550°C	5020

6 Channel Electronic Stethoscope

- for locating grinding, knocking and rattling noises
- for identifying mechanical damage on engine, running gear and car body by locating the noise source
- 6 clamp sensors can be attached on different parts of the vehicle and connected individually to 6-channel amplifier
- can be operated during road test, 4.8 m long cables can be layed out in vehicle and fixed with hook-and-loop fasteners to avoid any interference
- also applicable as engine stethoscope, with flexible shaft and audio probe

Content	Description	Art. No.
Headset	cushioned	*3543-01*
Audio Probe, flexible	with noise level adjustment	*3543-02*
6 Channel Amplifier	with noise level adjustment	*3559-03*
Clamp Sensor	with colour code and 4.8 m cables (6x in set)	*3559-04*
Hook-and-Loop Fasteners	8 pcs.	*3559-05*

Item	Art. No.
6 Channel Electronic Stethoscope	3559

Engine Stethoscope, electronic

- for locating grinding, knocking and rattling noises
- for identifying and locating mechanical engine damage
- with electronic amplifying and continuous volume regulator

Content	Description	Art. No.
Headset	light weight	*3543A-01*
Audio Probe	with noise level adjustment	*3543A-02*

Item	Art. No.
Engine Stethoscope, electronic	3543A

Mechanics Stethoscope

- for locating grinding, knocking and rattling noises
- for identifying and locating mechanical engine damage

Item	Description	Art. No.
Mechanics Stethoscope	with audio needle	3542

Radiator System and Air Conditioning

Fan Service Wrench Set

- for loosening fan wheels and visco couplings on engines
- suitable for e.g. Mercedes, BMW and Ford

Content	Description	Art. No.
Wrench	1/2" square / 8mm hex bit intake	*5480-01*
Bit Set	3 pcs. 6, 8, 10 mm	*5480-02*
Counter Holder	offset	*5480-03*
Open End Spanner	32 mm, extra flat	*5480-04*
Open End Spanner	36 mm, extra flat	*5480-05*
Open End Spanner	65 mm, extra flat	*5480-06*
Specialist Wrench	hole distance 38 mm / 45 mm	*5480-07*
Counter Holding Wrench	counter holder	*5480-08*

Item	pcs	Art. No.
Fan Service Wrench Set	6	5480

Hose Clamp Pliers

- specially suitable for CLIC and CLIC-R clamps
- bent design with swivel jaw
- for opening and closing reusable CLIC and CLIC-R clamps
- suitable for e.g. Audi, VW, Seat, Skoda, Citroen, Fiat, Mercedes, Opel, Peugeot, Renault etc.

Item	Length	Art. No.
Hose Clamp Pliers	190 mm	4726

Hose Clamp Pliers

- specially suitable for CLIC and CLIC-R clamps
- with bowden wire for hard to reach areas
- for opening and closing reusable CLIC and CLIC-R clamps
- suitable for e.g. Audi, VW, Seat, Skoda, Citroen, Fiat, Mercedes, Opel, Peugeot, Renault etc.

Item	Length	Description	Art. No.
Hose Clamp Pliers	630 mm	with bowden wire	4752

4725

Hose Clamp Pliers

- specially suitable for self-tensioning spring steel clamps
- with ratchet mechanism, lockable
- with swivel jaw
- for opening self-tensioning spring steel clamps
- suitable for e.g. Audi, VW, Seat, Skoda, Citroen, Fiat, Mercedes, Opel, Peugeot, Renault etc.

4725-1

Item	Length	Description	Art. No.
Hose Clamp Pliers	210 mm	straight type	4725
Hose Clamp Pliers	220 mm	offset	4725-1

Hose Clamp Pliers, for CLIC-L clamps

- for releasing and fitting re-usable CLIC-L hose clamps
- hardened jaw
- for VW, Audi, Citroen, Mercedes, Opel, Peugeot, Seat, Skoda etc.

Item	Length	Art. No.
Hose Clamp Pliers	175 mm	4723

Hose Clamp Pliers

- specially suitable for self-tensioning spring steel clamps
- with ratchet mechanism, lockable
- with bowden wire for hard to reach areas
- for opening self-tensioning spring steel clamps
- suitable for e.g. Audi, VW, Seat, Skoda, Citroen, Fiat, Mercedes, Opel, Peugeot, Renault etc.

Item	Length	Description	Art. No.
Hose Clamp Pliers	630 mm	with bowden wire	4750

Hose Unlocking Tool for HENN clamps

- for unlocking / releasing HENN clamps, e.g. on charge air- or cooling water hoses
- 2-fold handle adjustment (straight / 90°) for use even in hard-to-reach areas
- to prevent damage to the locking spring
- for use on VW, Audi, Seat, Skoda, BMW, Citroen, Dacia, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Opel, Peugeot, Porsche, Renault, Toyota and Volvo

Item	Description	Art. No.
Hose Clamp Unlocking Tool	for HENN clamps	4732

Hose Clamp Set, for ø up to 10, 15, 25 and 45 mm, 4 pcs.

- with swivel hook for easy fixing
- for clamping e.g. radiator and fuel lines

Content	for Ø	Art. No.
Swivel Hook Hose Clamp	10 mm	4754-10
Swivel Hook Hose Clamp	15 mm	4754-15
Swivel Hook Hose Clamp	25 mm	4754-25
Swivel Hook Hose Clamp	45 mm	4754-45

Item	for Ø	OEM Comparison No.	pcs	Art. No.
Hose Clamp Set	10, 15, 25, 45 mm	3094	4	4754

Flexible Line Clamps, 3 pcs.

- solid plastic construction, oil and acid resistant
- for clamping radiator and fuel lines
- safe protection against fluid leaks
- length 150, 180 and 250 mm
- with one-hand notched locking mechanism

Item	Description	pcs	Art. No.
Flexible Line Clamps	for ø max. 15, 30 and 60 mm	3	4755

Offset Flexible Line Clamps, 3 pcs.

- solid plastic construction, oil and acid resistant
- for clamping e.g. radiator and fuel lines
- safe protection against fluid leaks
- length 155 x 20, 165 x 35 and 225 x 50 mm
- with one-hand notched locking mechanism

Item	Form	Description	pcs	Art. No.
Flexible Line Clamps	offset	for ø max. 16, 22 and 42 mm	3	4756

Socket Set for Air Conditioning Systems, 12 pcs.

- for operating valves on radiator systems on Audi, VW, Opel etc.

Content	Size	Drive	Length	Profile	Art. No.
Specialist Socket	2.2 mm	1/4"	40 mm	Slotted	*4774-S2*
Specialist Socket	3.2 mm	1/4"	40 mm	Slotted	*4774-S3*
Specialist Socket	12 mm	1/4"	50 mm	8-Point	*4774-K12*
Specialist Socket	15 mm	1/4"	50 mm	8-Point	*4774-K15*
Bit	TS10	1/4" hex	25 mm	5-Star tamperproof	16066-10
Bit	TS15	1/4" hex	25 mm	5-Star tamperproof	16066-15
Bit	TS20	1/4" hex	25 mm	5-Star tamperproof	16066-20
Bit	TS25	1/4" hex	25 mm	5-Star tamperproof	16066-25
Bit	TS27	1/4" hex	25 mm	5-Star tamperproof	16066-27
Bit	TS30	1/4" hex	25 mm	5-Star tamperproof	16066-30
Bit	TS40	1/4" hex	25 mm	5-Star tamperproof	16066-40
Bit Holder		1/4"			20624

Item	pcs	Art. No.
Socket Set for Air Conditioning Systems	12	4774A

Socket for Thermostatic Switches

- deep, slotted design for e.g. Audi, VW, Skoda and Seat

Item	Profile	Size	Drive	Length	Art. No.
Specialist Socket	hexagon, slotted	29 mm	1/2"	78 mm	4770

14 Exhaust System

Lambda Sensor Socket Set, 14 pcs.

- for removing and installing lambda sensors of various shapes - also in hard to reach areas
- for removing and installing diesel injectors
- for removing and installing thermostatic switches on radiator fans
- e.g. on Audi, BMW, Ford, Mercedes-Benz, Opel, Rover, Seat, Skoda, VW, Volvo etc.

Content	Profile	Size	Drive	Length	Art. No.
Specialist Socket, offset	hexagon, slotted	22 mm	3/8"	30 mm	*4769-14*
Specialist Socket	hexagon, slotted	20 mm	1/2"	80 mm	*4769-03*
Specialist Socket, offset	hexagon, slotted	22 mm	1/2"	50 mm	*4769-05*
Specialist Socket	hexagon, slotted	27 mm	1/2"	80 mm	*4769-09*
Specialist Socket	bi-hexagon	17 mm	1/2"	80 mm	*4769-01*
Specialist Socket	bi-hexagon	19 mm	1/2"	80 mm	*4769-02*
Specialist Socket	bi-hexagon	21 mm	1/2"	90 mm	*4769-10*
Specialist Socket	bi-hexagon	22 mm	1/2"	80 mm	*4769-04*
Specialist Socket	bi-hexagon	22 mm	1/2"	110 mm	*4769-07*
Specialist Socket	bi-hexagon	22 mm	1/2"	150 mm	*4769-08*
Specialist Socket	bi-hexagon	27 mm	1/2"	80 mm	*4769-06*
Specialist Socket	bi-hexagon	27 mm	1/2"	110 mm	*4769-11*
Specialist Socket	bi-hexagon	28 mm	1/2"	80 mm	*4769-12*
Specialist Socket	bi-hexagon	30 mm	1/2"	80 mm	*4769-13*

Item	pcs	Art. No.
Lambda Sensor Socket Set	14	4769

Lambda Sensor Socket Set, 7 pcs.

- for removing and installing lambda sensors of various shapes - also in hard to reach areas
- for removing and installing diesel injectors
- for removing and installing thermostatic switches on radiator fans
- e.g. on Audi, BMW, Ford, Mercedes-Benz, Opel, Rover, Seat, Skoda, VW, Volvo etc.

Content	Profile	Size	Drive	Length	Art. No.
Specialist Socket, offset	hexagon, slotted	22 mm	3/8"	30 mm	*4769-14*
Specialist Socket	hexagon, slotted	22 mm	3/8"	80 mm	*4707-01*
Specialist Socket	hexagon, slotted	22 mm	3/8"	90 mm	*4765-38*
Specialist Socket, offset	hexagon, slotted	22 mm	1/2"	50 mm	*4769-05*
Specialist Socket	hexagon, slotted	29 mm	1/2"	90 mm	*4770-L*
Specialist Socket	specialist hexagon	27 mm	3/8"	75 mm	*4707-02*
Specialist Socket	bi-hexagon	27 mm	1/2"	80 mm	*4769-06*

Item	Drive	pcs	Art. No.
Lambda Sensor Socket Set	3/8+1/2"	7	4707

Lambda Sensor Socket

- for installing and removing lambda sensors of various shapes - also in hard to reach areas

Item	Profile	Size	Drive	Art. No.
Specialist Socket, offset	hexagon, slotted	22 mm	3/8"	4760

Lambda Sensor Socket

- for installing and removing lambda sensors of various shapes - also in hard to reach areas

Item	Profile	Size	Drive	Length	Art. No.
Socket for Lambda Sensors	hexagon, slotted	22 mm	1/2"	90 mm	4765
Socket for Lambda Sensors	hexagon, slotted	22 mm	1/2"	150 mm	4771

Thread Repair Set for Lambda Sensors

- for chasing or replacing damaged threads

Content	Size	Length	Quantity	Art. No.
Thread Chaser	M18x1.5			*5679-01*
Thread Awl	for M20x1.5			*5679-02*
Thread Cutter	M20x1.5			*5679-03*
Pilot Insertion Tool, for threaded bushes				*5679-04*
Threaded Bushes	M18x1.5	9 mm	5 pcs.	5679-1

Item	Size	pcs	Art. No.
Thread Repair Set for Lambda Sensors	M18x1.5	9	5679

Threaded Bushes

- with antirust protection

Item	Size	Length	Quantity	Art. No.
Threaded Bushes	M18x1.5	9 mm	5 pcs.	5679-1

Thread Repair Socket for Lambda Sensors

- for cleaning and thread chasing

Item	Size	Drive	Art. No.
Thread Repair Socket for Lambda Sensors	M18x1.5	3/8" / 19 mm hex	5362

Specialist Taps, for sensors, HSS-E Co5

- for cleaning and thread chasing
- for NOX-sensors, lambda sensors and particle filter sensors on exhaust systems
- precision milled with 5 cutting edges and pilot pin
- extra short design, for easy access in confined spaces
- manufactured from HSS-E Co5, perfect for stainless steel

Item	Size	Drive	Length	Art. No.
Specialist Tap	M20x1.5	13 mm hex	47 mm	5367-20
Specialist Tap	M22x1.5	13 mm hex	47 mm	5367-22

Exhaust Pipe Disconnector

- for separating tight and stubborn pipe connections
- for pipe ø 35-58 mm
- wide application range with 4 additional reducer inlets
- max. working width 120 mm
- solid construction for tight and stubborn pipe connections

Content	Description	Drive	Art. No.
Tensioning Body	2 pcs.		*4567-01*
Thrust Spindle	M12x1.75	3/8" / 17 mm hex	*4567-02*
Rubber Inlets	4 pcs.		*4567-03*

Item	Art. No.
Exhaust Pipe Disconnector	4567

Exhaust Pipe Chisel Set, for air hammers

- blade width: 23 mm
- for separating exhaust pipes without causing damage
- turnable, can be applied in almost any position
- can be used with any popular air hammer
- also suitable for other applications

Content	Round Shank	Description	Art. No.
Exhaust Pipe Chisel	ø 10 mm	for inner pipes	8762-01
Exhaust Pipe Chisel	ø 10 mm	for outer pipes	8762-02

Item	Round Shank	Description	pcs	Art. No.
Exhaust Pipe Chisel Set	ø 10 mm	for inner and outer pipes	2	8762

Ratchet Pipe Cutter

- for exhaust and plastic pipes
- compact design for e.g. narrow cardan tunnels
- 1x blade for exhaust pipes, max. cutting depth 3 mm, for ø 28 - 67 mm

Item	Art. No.
Ratchet Pipe Cutter	4950

accessory

Item	Art. No.
Spare Blade for No. 4950, 3 mm, for exhaust pipes	4950-R3
Spare Blade for No. 4950, 7 mm, for plastic pipes	4950-R7

Exhaust Pipe Chain Cutter

- for cutting aluminium, copper, steel and PVC pipes
- compact design for e.g. narrow cardan tunnels
- gripping mechanism for working with less effort
- easy retension with wing bolt

Item	for Ø	Art. No.
Exhaust Pipe Chain Cutter	19-85 mm	4370

Exhaust Pipe Chain Cutter

- for cutting aluminium, copper, steel and PVC pipes
- compact design for e.g. narrow cardan tunnels

Item	for Ø	Art. No.
Exhaust Pipe Chain Cutter	19 - 83 mm	4371

Exhaust Pipe Expanders

- for expanding exhaust pipe connections

Item	for Ø	Art. No.
Exhaust Pipe Expander	29 - 44 mm	4560
Exhaust Pipe Expander	38 - 62 mm	4561
Exhaust Pipe Expander	54 - 87 mm	4562

Exhaust Clamp Pliers, Peugeot / Citroen

- for opening and holding self-tensioning exhaust clamps
- with locking mechanism for holding clamps in open position

Item	Length	Description	Art. No.
Exhaust Clamp Pliers	300 mm	with locking mechanism	4744

Exhaust Clamp Expander

- for assembly and disassembly or exhaust manifold pipes
- for many models from Audi, VW, Seat and Skoda

Item	Drive	Art. No.
Exhaust Clamp Expander	17 mm hex	4825

Puller Hook for Exhaust Pipe Seals

- for damage-free removal and fitting of rubber exhaust hangers

Item	Description	pcs	Art. No.
Puller Hook, for exhaust pipe seals	offset		4563
Puller Hook Set, for exhaust pipe seals	100° + 110° offset	2	4564

4563

4564

Exhaust Hanger Removal Pliers, extra long

- for damage-free removal of rubber exhaust hangers
- saves time and energy
- with self-adjusting thrust bolt

Item	Length	Art. No.
Exhaust Hanger Removal Plier	360 mm	4568

Special turbocharger tool set, 2-piece, Audi / VW

- for 2.0 L CR-TDI engines
- in Audi, Seat, Skoda and VW
- for loosening, tightening and adjusting the control rod, also when installed
- for removing and installing the boost pressure control box with position sensor

Item	Profile	Size	Drive	OEM Comparison No.	Art. No.
Special turbocharger tool set	bi-hexagon	10, 12 mm	1/4"	T10422A, T10423	4278

Turbo Charger Wrench, Audi / VW

- special twisted design
- for operating the hard to reach rear turbo charger screw connections
- for Audi, VW, Seat and Skoda

Item	Profile	Size	Drive	Art. No.
Turbo Charger Wrench	bi-hexagon	12 mm	3/8"	4279

Transmission and Clutch

Transmission Oil Refilling Tool, 7.5l, 22 adapters

- for transmissions with special oil requirements
- for transmissions which cannot be filled by funnel or bottle, and which have no filling arrangement
- with return flow function to protect against overfilling:
  transmission is filled with pump; excess oil can flow back into fluid container after pressing flow direction switch
- capacity: 7.5 L, hose length: 160 cm, ø 1/2"
- viscosity: max. SAE 140
- not suitable for solvents or petrol

Content	Description	Art. No.
Pump Device	with return-flow function	*3996A-01*
Fluid Container	capacity 7.5 L	*3996A-BE*
Adapter Set	22 pcs.	3996-22

Item	Capacity	Art. No.
Transmission Oil Refilling Tool	7.5 L	3996B

Spare Fluid Container, 7.5 L, incl. cap

- spare container for transmission oil filling system 3996B, incl. cap 3996A-DK
- for storing transmission oils
- reduces the workload and saves time, as gear oils no longer need to be transferred and the containers cleaned
- to use it, simply unscrew the cap and screw on the 3996A-01 pump unit

Content	Description	Art. No.
Fluid Container	capacity 7.5 L	*3996A-BE*
Cap		*3996A-DK*

Item	Capacity	Art. No.
Spare Fluid Container	7.5 L	3996A-EX

Adapter Set, 22 pcs., for transmission oil refillment

- for refilling transmission oil also with other pump systems

Content	Description	OEM Comparison No.	Art. No.
Adapter	thread 1/8" x 27 (NPT)		*3996-101*
Adapter	140 x 45 mm, offset		*3996-102*
Adapter	150 x 18 mm, offset	VAS19241	*3996-103*
Adapter	150 x 30 mm, offset		*3996-104*
Adapter	thread M10 x 1.0	VAS62622	*3996-105*
Adapter	thread M24 x 1.5, for VW DSG transmission	VAS6262/1	*3996-106*
Adapter	thread M22 x 1.5, for VW CVT transmission	VAS5162	*3996-107*
Adapter	thread M12 x 1.5, for MB transmission 722.9		*3996-108*
Adapter	thread M30 x 1.5		*3996-110*
Adapter	300 mm, flexible		*3996-111*
Adapter	thread 5/16" x 24 (UNF)		*3996-112*
Adapter	thread M8 x 1.0	ATF180 / 310811EA5A	*3996-114*
Adapter	for Audi / VW	VAS62912	*3996-115*
Adapter	thread M12 x 1.25	KV311039S0	*3996-116*
Adapter	thread M14 x 1.5		*3996-117*
Adapter	thread M10 x 1.5		3996-118
Adapter	thread M12 x 1.75		3996-119
Adapter	bayonet, for MB transmission code 725.0	725589009000	3996-120
Transmission Oil Filling Adapter		VAS6262/4 / ASE40910100000	3910
Position setting tool		725589029000	3912
Transmission Oil Filling Adapter ATF		VAS6617/12	3988
Adapter	thread M18 x 1.5, flexible	000021110302	3911

Item	Description	Art. No.
Adapter Set	22 pcs.	3996-22

Adapter Set, 3 pcs., for transmission oil refillment

- for refilling transmission oil also with other pump systems
- for VW DSG and CVT transmissions
- for Mercedes with transmission 722.9

Content	Description	OEM Comparison No.	Art. No.
Adapter	thread M12 x 1.5, for MB transmission 722.9		*3996-108*
Adapter	thread M22 x 1.5, for VW CVT transmission	VAS5162	*3996-107*
Adapter	thread M24 x 1.5, for VW DSG transmission	VAS6262/1	*3996-106*

Item	pcs	Art. No.
Adapter Set	3	3996-3

Transmission Oil Refill Adapter, flex., M18x1.5, Subaru/Toyota/VW

Item	OEM Comparison No.	Description	Art. No.
Adapter	000021110302	thread M18 x 1.5, flexible	3911

Position setting tool for MB 725.0

- to set the transmission to drain/fill mode

Item	OEM Comparison No.	Art. No.
Position setting tool	725589029000	3912

Adapter, for Mercedes gearbox 725.0

- for filling the 9-speed transmission 9G-Tronic on Mercedes

Item	OEM Comparison No.	Description	Art. No.
Adapter	725589009000	bayonet, for MB transmission code 725.0	3996-120

Adapter, M10 x 1.5, for Nissan

- for filling of gearboxes
- partially also suitable for pump systems of other manufacturers

Item	Description	Art. No.
Adapter	thread M10 x 1.5	3996-118

Adapter, M12 x 1.75, for GM

- for filling of gearboxes
- partially also suitable for pump systems of other manufacturers
- suitable for:
  Cadilac ATS, CTS, CTS-V, STS, XLR-V
  Chevrolet Camaro
  Corvette Pontiac G8

Item	Description	Art. No.
Adapter	thread M12 x 1.75	3996-119

Overflow pipe unlocking tool for automatic transmission, Mercedes

- for 7G-Tronic automatic transmission with identification 722.9 and 724.2
- for residual drainage during gearbox oil change

Item	OEM Comparison No.	Art. No.
Unlocking tool	722589031500	3913

Transmission Oil Filling Adapter ATF, for Audi / VW 7-Gear DSG

- in Audi A4, A5, A6, A7 and Q5
- suitable for gearboxes 0CJ, 0CK, 0CL, 0DN, 0DP
- accessory for No. 3996A and 3996-17

Item	OEM Comparison No.	Art. No.
Transmission Oil Filling Adapter ATF	VAS6617/12	3988

Transmission Oil Filling Adapter, for Audi / VW 7-Gear DSG

- for 1.2, 1.4 and 1.8 L TFSI, 1.5 L MPI and 1.6 L TDI engines
- for VAG engines with transverse mounted transmission (DQ200 series)
- accessory for No. 3996A and 3996-17

Item	OEM Comparison No.	Art. No.
Transmission Oil Filling Adapter	VAS6262/4 / ASE40910100000	3910

Filling Hose for DSG Transmission Oil, Audi / VW

- for controlled filling or refilling of DSG gearboxes
- with adapter for direct screwing on 1-liter oil bottles
- check valve prevents unwanted leakage of oil
- for standard oil supply containers VW G052182A2 and Audi S-tronic G052529A2

Item	OEM Comparison No.	Length	Description	Art. No.
Filling hose	VAS6262A	2 m	thread M24 x 1.5, for VW DSG transmission	3998

Oil Cooler Line Pliers, BMW / Mini

- for releasing the line connectors on transmission oil coolers
- required when working on transmission or oil cooler
- for e.g. BMW 1-series (E81, 82, 87) / 3-series (E46, 90, 91, 92, 93) / 5-series (E60, 61) / 6-series (E63, 64) / 7-series (E65, 66) / X3 (E83) / X5 (E53, 70) / X6 (E71) / Z4 (E85, 86) and Mini R50 / 52 / 53

Item	Description	Art. No.
Oil Cooler Line Pliers	adjustable	4733

Joint Sockets, 2 pcs., 3/8", bi-hex 16 / 18 mm

- for loosening the fastening screws on Audi gearboxes from 2008 onwards
- for use with Audi A4, A5, A6, A7, A8, Q5 and Q7

Item	Profile	Size	Drive	pcs	Art. No.
Joint Sockets, 2 pcs.	bi-hex	16 + 18 mm	3/8"	2	3944

Assembly Lever for DSG 7-Speed Transmission, Audi / VW

- for assembly and disassembly of the mechatronic unit
- for releasing the engaging lever during transmission repair
- in Audi A3 (8V1, 8VK), A3 Cabriolet (8V7, 8VE), A3 Limousine (8VS, 8VM), A3 Sportback (8VA, 8VF), Q2 (GAB), Q3 (F3B), TT (FV3, FVP) and TT Roadster (FV9, FVR)
- in Seat Ateca (KH7), Leon ST (5F8) and Leon (5F1)
- in Skoda Karoq (NU7), Kodiaq (NS7), Octavia III (5E3, NL3, NR3), Octavia III Combi (5E5), Superb III (3V3) and Superb III Kombi (3V5)
- in VW Arteon (3H7), Golf Sportsvan (AM1, AN1), Golf VII (5G1, BQ1, BE1, BE2), Golf VII Variant (BA5, BV5), Passat (3G2), Passat Alltrack (3G5), Passat Variant (3G5), Tiguan (AD1), Tiguan Allspace (BW2), Touran (5T1) and T-Roc (A11)

Item	OEM Comparison No.	Art. No.
DSG-Transmission-Lever	T10407	5499

Assembly Lever for Gear Selector Module Plug on DSG 7-Speed, Audi

- for loosening and connecting plugs on Audi vehicles with DSG 7-speed transmissions
- essential when working on components like hydraulic pressure sensor, gear selector and mechatronics
- suitable for DSG 7-speed transmissions (fitted lengthwise) with codes: 0CJ, 0CL, 0CK, 0DN, 0DP, 0HL

Item	OEM Comparison No.	Art. No.
Assembly Lever for Gear Selector Module Plug	T40305	5496

Clutch mounting bolt, Audi / VW, 7-speed DSG transmission

- for use with 7-speed DSG gearboxes with code 0BH, 0BT, 0DE, 0DW
- necessary for installation and adjustments
- suitable for many VAG group vehicles

Item	OEM Comparison No.	Art. No.
Clutch mounting bolt	T10524	5497

Clutch mounting bolt, Audi / VW, 6-speed DSG transmission

- for use with 6-speed DSG gearboxes with code 02E
- necessary for installation and adjustments
- suitable for many VAG group vehicles

Item	OEM Comparison No.	Art. No.
Clutch mounting bolt	T10303	5498

Clutch Alignment Tool, 2 pcs.

- for quick and precise alignment and locking of the clutch plate
- for clutches with pilot bearing on cars and vans
- stepless adjustment of mandrels from ø 15-19 mm and ø 20-26.6 mm

Item	pcs	Art. No.
Clutch Alignment Tool	2	5491

Clutch Alignment Tool, 6 pcs.

- for quick and precise alignment and locking of the clutch plate
- for clutches with pilot bearing on vans and small trucks
- stepless adjustment of mandrels from ø 36-45 mm and ø 42-52 mm
- includes 4 adapters sleeves with ø 20, 25, 27 and 30 mm

Item	pcs	Art. No.
Clutch Alignment Tool	6	5492

Clutch Alignment Tool, 19 pcs.

- for vehicles with pilot bearing
- with mandrel
- with 8x 3-stepped bushes for centering the clutch plate:
  15.5 x 14.2 x 26.6 mm, 16.7 x 15.4 x 27.0 mm, 19.0 x 17.5 x 28.0 mm, 20.0 x 18.6 x 27.5 mm, 21.4 x 20.0 x 27.4 mm, 23.0 x 21.6 x 27.5 mm, 23.5 x 22.0 x 27.5 mm, 26.6 x 24.2 x 27.5 mm
- with 8x 3-stepped adapters for driving in the pilot bearing:
  12.6 x 10.8 x 19.2 mm, 14.8 x 12.2 x 19.4 mm, 15.0 x 13.5 x 19.3 mm, 16.0 x 14.7 x 19.7 mm, 17.7 x 15.8 x 19.4 mm, 19.0 x 17.1 x 19.3 mm, 20.0 x 18.3 x 19.1 mm, 21.6 x 20.0 x 19.1 mm

Item	pcs	Art. No.
Clutch Alignment Tool	19	5490

Clutch Alignment Tool

- for vehicles without pilot bearing
- for quick centering of the clutch plate on vehicles without pilot bearing
- with 3 tensioning conus

Item	pcs	Art. No.
Clutch Alignment Tool	4	5495

Oil Filter Wrench for Haldex Couplings

- for 4-wheel drives with manual transmission (VW 4Motion and Audi quattro)
- suitable for e.g.:
  VW Bora, Golf IV, Golf V, Sharan, Touran
  Audi A3, TT Quattro
  Skoda Octavia

Item	Profile	Size	Art. No.
Oil Filter Wrench For Haldex Couplings	bi-hexagon	46 mm	4258

Oil Service

Repair Kit for Oil Drain Plugs M10/12/14/16 x1.5, 64 pcs.

- for quick and cost efficient repairs
- with specialist drill, to drill out damaged thread and cut new thread at the same time
- comes with new drain plugs and aluminum seal rings

Content	Size	Quantity	Art. No.
Aluminum Ring Set	M13	10 pcs.	5368-A13
Aluminum Ring Set	M15	10 pcs.	5368-A15
Aluminum Ring Set	M17	10 pcs.	5368-A17
Aluminum Ring Set	M20	10 pcs.	5368-A20
Drain Plug Set	M13x1.5	5 pcs.	5368-S13
Drain Plug Set	M15x1.5	5 pcs.	5368-S15
Drain Plug Set	M17x1.5	5 pcs.	5368-S17
Drain Plug Set	M20x1.5	5 pcs.	5368-S20
Tap	M13x1.5	1 pcs.	*5368-GB13*
Tap	M15x1.5	1 pcs.	*5368-GB15*
Tap	M17x1.5	1 pcs.	*5368-GB17*
Tap	M20x1.5	1 pcs.	*5368-GB20*

Item	Application	pcs	Art. No.
Repair Kit for Oil Drain Plugs	for damaged threads M10 x 1.5, M12 x 1.5, M14 x 1.5, M16 x 1.5	64	5368

Repair Kits for Oil Drain Plugs

- for quick and cost efficient repairs
- with specialist drill, to drill out damaged thread and cut new thread at the same time
- comes with 5x new drain plugs and 5x aluminum seal rings

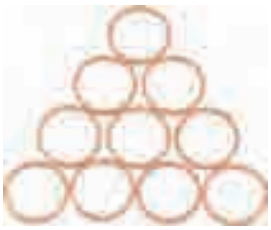
Item	Application	pcs	Art. No.
Repair Kit for Oil Drain Plugs	for damaged thread M10x1.5	11	5369-13
Repair Kit for Oil Drain Plugs	for damaged thread M12x1.5	11	5369-15
Repair Kit for Oil Drain Plugs	for damaged thread M14x1.5	11	5369
Repair Kit for Oil Drain Plugs	for damaged thread M16x1.5	11	5369-20

Aluminum Rings

Item	Size	Application	Quantity	Art. No.
Aluminum Ring Set	M13	for No. 5368 + 5369-13	10 pcs.	5368-A13
Aluminum Ring Set	M15	for No. 5368 + 5369-15	10 pcs.	5368-A15
Aluminum Ring Set	M17	for No. 5368 + 5369	10 pcs.	5368-A17
Aluminum Ring Set	M20	for No. 5368 + 5369-20	10 pcs.	5368-A20

Copper Rings

Item	Size	Application	Quantity	Art. No.
Copper Ring Set	M13	for No. 5368 + 5369-13	10 pcs.	5368-R13
Copper Ring Set	M15	for No. 5368 + 5369-15	10 pcs.	5368-R15
Copper Ring Set	M17	for No. 5368 + 5369	10 pcs.	5368-R17
Copper Ring Set	M20	for No. 5368 + 5369-20	10 pcs.	5368-R20



Drain Plugs

Item	Size	Application	Quantity	Art. No.
Drain Plug Set	M13x1.5	for No. 5368 + 5369-13	5 pcs.	5368-S13
Drain Plug Set	M15x1.5	for No. 5368 + 5369-15	5 pcs.	5368-S15
Drain Plug Set	M17x1.5	for No. 5368 + 5369	5 pcs.	5368-S17
Drain Plug Set	M20x1.5	for No. 5368 + 5369-20	5 pcs.	5368-S20

Magnetic Drain Plug Key Set, 15 pcs.

- magnet prevents accidental falling down of drain plug
- content:
  6x hexagon sockets 13, 14, 17, 18, 19, 21 mm
  6x square socket bits 8, 10, 12, 13, 14, 17 mm
  2x square sockets 8, 10 mm
  1x tx-star socket bit T45

Item	Drive	pcs	Art. No.
Magnetic Drain Plug Key Set	3/8"	15	4215

Drain Plug Key Set, 12 pcs.

- for all popular oil drain plugs and transmission oil control screws
- operated with 19 mm hexagon
- includes 19 mm hex socket with 3/8" sq. drive
- universal assortment with 21 sizes:
  hexagon, metric: 9, 10, 12, 14, 17 mm
  hexagon, inch: 5/16″, 3/8″, 1/2″
  square, metric: 7, 10, 11, 12, 13, 14
  square, inch: 5/16″, 3/8″
  tx-star: T45
  spline tamperproof: M16 (transmission VW / Audi / Skoda)
  triangular: 10 mm (Renault)
  square socket: 10 mm (transmission BMW / Ford / Renault / Toyota)
  specialist profile: for synthetic material drain plugs (VW, OEM comparison No. T10549)

Item	Drive	pcs	Art. No.
Drain Plug Key Set	3/8" / 19 mm hex	12	4264

Oil Drain Plug Key Set, 6 pcs.

- for all popular drain plugs with square screws
- 4x square socket bits, metric: 8, 10, 12, 14 mm
- 2x square socket bits, inch: 3/8", 1/2"

Item	Profile	Drive	pcs	Art. No.
Drain Plug Key Set	square	1/2"	6	4266

Drain Plug Key Set, 5 pcs.

- for common oil drain and gearbox oil control screws, e.g. on oil pan, gearbox, differential
- with 19 mm external hex drive and bore, e.g. for operation with a screwdriver
- scope of delivery:
  square: 8x13 mm, 11 mm x 3/8""
  hexagon: 9 mm x 5/16"", 10x12 mm, 14x17 mm

Item	Drive	pcs	Art. No.
Drain Plug Key Set	3/8" / 19 mm hex	5	4265

Square Oil Service Socket

- reversible socket with 2 sizes
- for oil drain and gearbox oil control plugs
- for Ford, Mazda, Nissan, PSA, Renault, Volvo etc.

Item	Profile	Size	Drive	Art. No.
Oil Service Socket	square	8 + 10 mm	1/2"	4263

Special Oil Service Key Set, for plastic oil drain plugs, 6 pcs.

- for disassembly / assembly of plastic oil drain plugs
- installed in vehicles with plastic oil pans
- special profiles for damage-free loosening and tightening
- solid T-handle for operation by hand
- for oil drain plugs like OEM:
  11137605018 - BMW
  9801444780 - Citroen/Peugeot
  1830727 / 1871598 / 2072363 - Ford
  0029902017 - Mercedes
  06L103801 - VAG

Content	for Manufacturer	Drive	OEM Comparison No.	Art. No.
Specialist Bit	VAG	1/4" hex	T10549	*4267-01*
Specialist Bit	BMW	1/4" hex		*4267-02*
Adapter		3/8"		*4267-03*
T-Handle	Ford			*4267-04*
Specialist Adapter	PSA / Ford	3/8"		4268
Specialist Adapter	Mercedes	3/8"		4269

Item	Drive	OEM Comparison No.	pcs	Art. No.
Special Oil Service Key Set	1/4+3/8"	T10549	6	4267

Special Adapter for oil drain plugs, 3/8", PSA

- for vehicles with oil drain plugs made from synthetic material
- special profile for loosening and tightening without damage
- for oil drain plugs like OEM 9801444780 / 1871598

Item	for Manufacturer	Drive	Art. No.
Specialist Adapter	PSA / Ford	3/8"	4268

Special Adapter for oil drain plugs, 3/8", Mercedes

- for vehicles with oil drain plugs made from synthetic material
- special profile for loosening and tightening without damage
- for oil drain plugs like OEM 0029902017

Item	for Manufacturer	Drive	Art. No.
Specialist Adapter	Mercedes	3/8"	4269

Special Drain Plug Wrench, VW / Audi

for drain plugs made from synthetic material

- for vehicles with oil drain plugs made from synthetic material
- specialist profile for loosening and thightening without damage
- for vehicles with oil sump made from synthetic material
- for 1.2 / 1.4 / 1.8 / 2.0L TFSI engines
- for 1.6 / 2.0L TDI engines
- in Audi A1 / A3 / A4 / A5 / Q5
- in VW Golf VII etc.

Item	Profile	Drive	OEM Comparison No.	Art. No.
Special Drain Plug Wrench	specialist	1/4" / 12 mm hex	T10549	4262

Drain Plug Key, Citroen / Peugeot

Item	Profile	Size	Art. No.
Drain Plug Key	square	8x10 mm	260

Universal Drain Plug Wrench, 8 in 1

- with flexible, revolving heads

Item	Description	Art. No.
Universal Oil Service Wrench	square: 8, 10 mm + 3/8, 1/2" hexagon: 10, 12, 14, 17 mm	4260

Drain Plug Wrench, 2 in 1

- for engine and transmission oil drain plugs
- for Audi, VW, Seat and Skoda

Item	Description	Art. No.
Drain Plug Wrench	spline tamperproof M16 / hex 19 mm	4261

Universal Oil Plug Wrench, 8 in 1

Item	Description	Art. No.
Universal Oil Service Wrench	6x square + 2x 8-point sizes	85

Oil Drain Adapter Hose, Audi / VW

- for Audi / VW 1.8 and 2.0 L petrol engines
- adapter opens a valve when being screwed into oil filter housing and enables controlled release of oil from the housing; then housing can be disassembled without any uncontrolled leaking of oil
- avoids customer claims against oil traces and stains in engine
- suitable for many vehicles from Audi, VW, Seat and Skoda

for engine codes:
AXW, BLX, BLR, BLY, BVX, BVY, BVZ

Item	Length	Art. No.
Oil Drain Adapter Hose	500 mm	3997

Oil Filter Wrench Set, 19 pcs.

- manufactured from diecast aluminium
- with 3/8″ + 1/2″ sq. drive and 24 + 27 mm external hexagon
- for easy loosening and tightening with a torque wrench
- with three arm oil filter wrench 55 - 90 mm
- including adapter 3/8″ inside x 1/2″ outside
- 17 oil filter wrenches: 24 - 100.5 mm

Content	Profile	Size	Drive	Ø	Art. No.
Oil Filter Wrench	hex	24 mm	1/2" / 27 mm hex		4230-01
Oil Filter Wrench	hex	27 mm	1/2" / 27 mm hex		4230-02
Oil Filter Wrench	hex	30 mm	1/2" / 27 mm hex		4230-03
Oil Filter Wrench	hex	32.5 mm	1/2" / 27 mm hex		4230-04
Oil Filter Wrench	hex	36 mm	1/2" / 27 mm hex		4230-05
Oil Filter Wrench	hex	38 mm	1/2" / 27 mm hex		4230-06
Oil Filter Wrench	14 point		1/2" / 27 mm hex	63/64 mm	4230-07
Oil Filter Wrench	14 point		1/2" / 27 mm hex	66.5 mm	4230-08
Oil Filter Wrench	14 point		3/8" / 27 mm hex	70 mm	4230-09
Oil Filter Wrench	14 point		1/2" / 27 mm hex	74 mm	4230-10
Oil Filter Wrench	15 point		3/8" / 24 mm hex	79 mm	4230-11
Oil Filter Wrench	14 point		3/8" / 27 mm hex	79.5 mm	4230-12
Oil Filter Wrench	14 point		3/8" / 27 mm hex	84 mm	4230-13
Oil Filter Wrench	16 point		1/2" / 27 mm hex	87 mm	4230-14
Oil Filter Wrench	15 point		3/8" / 24 mm hex	92 mm	4230-15
Oil Filter Wrench	15 point		3/8" / 24 mm hex	94.5 mm	4230-16
Oil Filter Wrench	15 point		3/8" / 24 mm hex	100.5 mm	4230-17
Oil Filter Wrench	3 axle		3/8"	55-90 mm	4230-18

Item	pcs	Art. No.
Oil Filter Wrench Set	19	4230

Drive Tools / Accessory, 3/8"	
Socket Converter, 3/8" F x 1/2" M	20604

Oil Filter Wrench Set, 30 pcs.

- for almost all oil filters
- sheet metal 2 mm, black lacquered finish
- includes three arm oil filter wrench 65 - 120 mm
- includes adapter 1/2" internal x 3/8" external sq. drive
- 28 oil filter wrenches: 65 - 108 mm

Content	Profile	Ø	Drive	Art. No.
Oil Filter Wrench	14 point	65 mm	3/8"	35365-14
Oil Filter Wrench	14 point	65/67 mm	3/8"	35365-67
Oil Filter Wrench	6 flutes	66 mm	3/8"	35366-06
Oil Filter Wrench	14 point	68 mm	3/8"	35368-14
Oil Filter Wrench	14 point	73 mm	3/8"	35373-14
Oil Filter Wrench	14 point	74 mm	3/8"	35376-14
Oil Filter Wrench	15 point	74 mm	3/8"	35374-15
Oil Filter Wrench	15 point	74/76 mm	3/8"	35374-76
Oil Filter Wrench	15 flutes	75/77 mm	3/8"	35375-77
Oil Filter Wrench	8 point	76 mm	3/8"	35376-08
Oil Filter Wrench	12 flutes	76 mm	3/8"	35376-12
Oil Filter Wrench	30 flutes	76 mm	3/8"	35376-30
Oil Filter Wrench	15 point	78 mm	3/8"	35378-15
Oil Filter Wrench	15 point	80 mm	3/8"	35380-15
Oil Filter Wrench	15 point	80/82 mm	3/8"	35380-82
Oil Filter Wrench	16 point	86 mm	3/8"	35386-16
Oil Filter Wrench	18 flutes	86 mm	3/8"	35386-18
Oil Filter Wrench	15 point	90 mm	3/8"	35390-15
Oil Filter Wrench	10 point	92 mm	3/8"	35392-10
Oil Filter Wrench	15 point	93 mm	3/8"	35393-15
Oil Filter Wrench	36 flutes	93 mm	3/8"	35393-36
Oil Filter Wrench	45 flutes	93 mm	3/8"	35393-45
Oil Filter Wrench	15 point	95 mm	3/8"	35395-15
Oil Filter Wrench	18 flutes	96 mm	3/8"	35396-18
Oil Filter Wrench	15 point	100 mm	3/8"	35310-15
Oil Filter Wrench	15 point	106 mm	3/8"	35316-15
Oil Filter Wrench	15 point	108 mm	3/8"	35318-15
Oil Filter Wrench	18 flutes	108 mm	3/8"	35318-18

Item	Drive	pcs	Art. No.
Oil Filter Wrench Set	3/8"	30	353-30

Oil Filter Cartridge Wrench Set, 3 pcs.

- sheet metal 2 mm, black lacquered finish
- with reinforced, welded square profile
- 3 oil filter wrenches: 27 mm x 6 pt., 32 mm x 6 pt., 36 mm x 6 pt.

Item	Drive	pcs	Art. No.
Oil Filter Cartridge Wrench Set	3/8" / 21 mm hex	3	5360

Oil Filter Wrench Set for Renault, 3 pcs.

- also for identically constructed engines from Dacia, Nissan and Opel
- sheet metal 2 mm, black lacquered finish
- with reinforced, welded square profile
- for Renault dCi 1.5, 1.9, 2.2, 2.5 L
- 3 oil filter wrenches: 27 mm x 6 pt., 76 mm x 12 flutes, 96 mm x 18 flutes

Item	Drive	pcs	Art. No.
Oil Filter Wrench Set	3/8"	3	353-3

Oil Filter Loosening Wrench Set, 5 pcs., 3/8", hex 24-38 mm

- for loosening the oil filter housing, e.g. when changing the filter insert
- slim design, ideal for confined spaces
- 24, 27, 32, 36 and 38 mm
- suitable for Audi, BMW, Ford, Mercedes, Opel, Renault, Seat, Skoda, VW

Item	Profile	Size	Drive	Art. No.
Oil Filter Loosening Wrench Set	hexagon	24, 27, 32, 36, 38 mm	3/8"	4255

Oil Filter Wrenches

- sheet metal 2 mm, black lacquered finish

Item	Profile	Size	Drive	Description	Art. No.
Oil Filter Wrench	14-point	74 mm	3/8"	with square	35374-14
Oil Filter Wrench	14-point	84 mm	3/8"	with square	38414

Oil Filter Wrench, aluminium

- manufactured from diecast aluminium

Item	Profile	Size	Drive	Art. No.
Oil Filter Wrench	14-point	74 mm	1/2" / 27 mm hex	353-74-14

Oil filter cap, aluminium, 3/8" / 27 mm, 65 mm x P14, Toyota

- for 1.8 and 2.0 L 4-cylinder engines
- in Toyota Auris, Corolla, Premio and Prius

Item	Size	Drive	Art. No.
Ölfilterkappe	65 mm	3/8" / 27 mm hex	4231

Oil Filter Wrench with Flexible Head, offset, Ford / PSA

- with reversible flexible head
- for operating the hard to reach filter housing lid
- for Ford 2.0 / 2.2L Duratorq TDCi engines
- for Peugeot and Citroen 2.0 / 2.2L Duratorq HDi engines
- suitable for tightening with torque wrench

Item	Profile	Size	Drive	OEM Comparison No.	Art. No.
Flexible Head Oil Filter Wrench	bi-hexagon	27 mm	1/2"	3031579	4259EX

for engine codes:
DW10C, DW12C

Oil Filter Wrench, offset, Ford / PSA

- for operating the hard to reach filter housing lid
- for Ford 2.0 / 2.2L Duratorq TDCi engines
- for Peugeot and Citroen 2.0 / 2.2L Duratorq HDi engines
- suitable for tightening with torque wrench

Item	Profile	Size	Drive	OEM Comparison No.	Art. No.
Oil Filter Wrench, offset	bi-hexagon	27 mm	1/2"	3031579	4259

for engine codes:
DW10C, DW12C

Three Arm Oil Filter Wrench

- with adapter 1/2" internal x 3/8" external sq. drive + 21 mm external hexagon

Item	for Ø	Drive	Arms	Art. No.
Three Arm Oil Filter Wrench	65 - 120 mm	3/8"	3	4251

Three Arm Oil Filter Wrench

- with adapter 1/2" internal x 3/8" external sq. drive + 21 mm external hexagon

Item	for Ø	Drive	Arms	Art. No.
Three Arm Oil Filter Wrench	60-100 mm	3/8"	3	4252

Three Arm Oil Filter Wrench

- with adapter 1/2" internal x 3/8" external sq. drive + 21 mm external hexagon

Item	for Ø	Drive	Arms	Art. No.
Three Arm Oil Filter Wrench	80 - 135 mm	3/8"	3	251

Three Arm Heavy Duty Oil And Air Filter Wrench

- also for air filter cartridges on trucks up to ø 140 mm

Item	for Ø	Drive	Arms	Art. No.
Three Arm Heavy Duty Filter Wrench	85 - 140 mm	1/2"	3	4254

Universal Oil Filter Wrench

- self-tensioning - toothed jaw for perfect grip
- for left and right hand drive
- for both loosening and tightening

Item	for Ø	Drive	Art. No.
Universal Oil Filter Wrench	60 - 80 mm	1/2" / 21 mm hex	4250-1
Universal Oil Filter Wrench	80 - 110 mm	1/2" / 21 mm hex	4250-2
Universal Oil Filter Wrench	104 - 150 mm	1/2" / 21 mm hex	4250-3

Oil Filter Chain Wrench

- duplex chain, 13 mm width
- for left and right hand drive

Item	for Ø	Drive	Art. No.
Oil Filter Chain Wrench	60 - 115 mm	1/2"	4246

Oil Filter Chain Wrench

- heavy duty duplex chain construction, 22 mm width
- swivel handle 180°
- for left and right hand drive

Item	for Ø	Art. No.
Oil Filter Chain Wrench	60 - 160 mm	4248

88

Oil Filter Chain Wrench

- chain length approx. 400 mm
- for left and right hand drive

Item	for Ø	Drive	Description	Art. No.
Oil Filter Chain Wrench	max. 115 mm	1/2"		88
Oil Filter Chain Wrench, heavy duty	max. 120 mm	1/2"	with reinforced chain	88A

88A

Oil Filter Chain Wrench, with handle

- chain length approx. 400 mm
- for left and right hand drive

Item	for Ø	Art. No.
Oil Filter Chain Wrench, with handle	max. 100 mm	93

Oil Filter Strap Wrench

- for left and right hand drive
- extremely solid construction with extra long strap

Item	Description	Art. No.
Oil Filter Strap Wrench	band length 720 mm	257

Oil Filter Strap Wrench

- for left and right hand drive
- solid metal body

Item	for Ø	Art. No.
Oil Filter Strap Wrench	max. 190 mm	4960

Oil Filter Strap Wrench

- universal, with replaceable metal band
- for one-hand operation

Item	for Ø	Art. No.
Oil Filter Strap Wrench	65-105 mm	4244
Oil Filter Strap Wrench	110-155 mm	4245

spare parts

Item	Art. No.
Replacement Strap for No. 4244, length 380 mm	4244-B
Replacement Strap for No. 4245, length 540 mm	4245-B

Oil Filter Wrench, self-clamping

- automatic size adjustment for all popular oil filters
- for left and right hand drive
- toothed jaw

Item	for Ø	Art. No.
Oil Filter Wrench, self clamping	max. 95 mm	89

Engine Oil Filler Set, 8 pcs.

- for clean and time-saving filling of engine oil
- perfect sealing between adapter and engine oil spout
- avoids oil dripping down the exhaust manifold or engine block
- ideal for difficult engines, e.g. VW
- large funnel with 2L volume for high time-saving
- includes double-angled extension for hard to reach spouts, e.g. Ford Galaxy, VW Sharan and Seat Alhambra

Content	for Manufacturer	Colour	Size	Art. No.
Bayonet Adapter	universal	red		*9978-02*
Bayonet Adapter	Volkswagen MQB	light blue		*9978-03*
Bayonet Adapter	Toyota / Lexus 3.0 + 3.3L V6	yellow		*9978-04*
Threaded Adapter	Ford, Honda, Jaguar, Nissan, Dodge	green	M32 x 3.5	*9978-05*
Threaded Adapter	Mazda	orange	M35 x 4.0	*9978-06*
Threaded Adapter	Toyota, Lexus, Pontiac	dark blue	M37 x 3.0	*9978-07*
Funnel, 2L				*9978-01*
Angle Extension				9980

Item	pcs	Art. No.
Engine Oil Filler Set	8	9978

Engine Oil Filler Set, 2 pcs.

- for clean and time-saving filling of engine oil
- perfect sealing between adapter and engine oil spout
- avoids oil dripping down the exhaust manifold or engine block
- ideal for difficult engines, e.g. VW
- large funnel with 2L volume for high time-saving
- with bayonet adapter for many popular models from Audi, BMW, Mercedes, Porsche, Seat, Skoda, Volvo and VW

Content	for Manufacturer	Colour	Art. No.
Bayonet Adapter	universal	red	*9978-02*
Funnel, 2L			*9978-01*

Item	pcs	Art. No.
Engine Oil Filler Set	2	9979

Double-Angled Extension, for engine oil filler

- for hard to reach spouts, e.g. Ford Galaxy, VW Sharan and Seat Alhambra

Item	Art. No.
Angle Extension	9980

Oil Dipstick, adjustable, Audi

- for models with electronic oil level monitoring (without dipstick in engine)
- for checking oil level after oil change
- for checking / calibrating oil level sensor
- for Audi A4, A5 and A6
- for 1.8 + 2.0 TFSI, 3.0 + 3.2 FSI, 2.0 + 2.7 + 3.0 TDI engines

Item	OEM Comparison No.	Art. No.
Oil Dipstick, adjustable	T40178	4237

Oil Dipsticks, 4 pcs., Mercedes

- for checking oil level in engine and transmission
- for checking oil level after oil change
- for checking / calibrating oil level sensor
- for vehicles supplied without dipstick in engine or transmission

e.g. for engine codes:
M- / OM- 112, 113, 646, 647, 648, 103, 943, 984, 985, 104, 111, 119, 120, 137, 603, 913, 963, 604, 605, 606, 611, 612, 613, 628, 612, 965
for transmission codes:
716.5, 722.6, 722.7

Content	OEM Comparison No.	Colour	Art. No.
Oil Dipstick	115589152100	blue	4239-BL
Oil Dipstick	120589062100	yellow	4239-GE
Oil Dipstick	168589012100	red	4239-RO
Oil Dipstick	140589152100	green	4239-GR

Item	pcs	Art. No.
Oil Dipsticks	4	4239

Special Socket Oil Pressure Switch, Mercedes

- for 1.8 and 2.2 L OM651 diesel engines
- in the A-Class, B-Class, C-Class, CLA Coupe, CLS, E-Class, GLA, GLC, GLE, GLK, Marco Polo Camper, M-Class, S-Class, SLC, SLK, Sprinter, Viano, Vito and V-Class
- for damage-free disassembly/assembly of the oil pressure switch (e.g. OEM ref. no. A6511800115)
- 1/2" / 24 mm hexagonal drive

Item	OEM Comparison No.	Art. No.
Special Socket Oil Pressure Switch	651589000900	4761

for engine codes:
651901, 651910, 651911, 651912, 651913, 651916, 651921, 651922, 651924, 651925, 651930, 651940, 651950, 651955, 651956, 651957, 651958, 651959, 651960, 651961, 651980

Oil Suction Pump, 12 V

- for pumping out engine oil through dipstick opening
- suction tube with ø 6 mm
- with crocodile clamps to connect to 12 V car battery for power supply
- max. flow rate for enigne oil: approx. 0.2 L/min (with 40° C oil temperature)
- also suitable for heating oil, max. flow rate: approx. 70 L/h
- max suction height: 70 cm

!!! Not suitable for fuel and other easy flamable fluids !!!

Item	Art. No.
Oil Suction Pump	3989

Wheel Bearing + Bushes

Wheel Bearing Tool Set, ø 92 mm, PSA / Toyota

- for installation and removal of the compact bearings on the rear axle
- no removal of steering knuckle and ABS sensor necessary
- for use with:
  Citroen Jumpy II platform (from 2006), Jumpy III (from 2016) and Spacetourer (from 2016)
  Fiat Scudo (from 2022) and Ulysse (from 2022)
  Opel Zafira Life (from 2019) and Vivaro C (from 2019)
  Peugeot Expert (from my 2016), Partner (from 2018) and Traveller (from 2016)
  Toyota Proace Bus / Box / Platform (from 2016), Proace City (from 2019) and Proace Verso (from 2016)
- for compact bearings with OEM reference number:
  Citroen, Opel, Peugeot and Toyota 9819074780, SU001A6528
  FAG 713650680
  SKF VKBA7120

Content	OEM Comparison No.	Art. No.
Thrust Spindle	J-0562-E, J-0562-F	*5599-01*
Thrust Piece	J-0562-C	*5599-02*
Thrust Bolts	J-0562-D	*5599-03*
Half Moon Pair	J-0562-B1 / J-0562-B2	*5599-04*
Thrust Bolts		*5599-05*
Thrust Plate	J-0562-D	*5599-06*

Item	for Ø	Art. No.
Wheel Bearing Tool Set	92 mm	5599

Wheel Bearing Tool Set Front Axle

- for Mercedes Sprinter (906), V Class (W447), Viano and Vito (W639)
- for VW Crafter (2E 30-50)
- for use with a workshop press
- to replace the wheel bearing hub unit on the front axle without replacing the whole steering knuckle

Content	Art. No.
Half Moon Pair, with screws	*5596-01*
Thrust Bolts, with magnet 6x	*5596-02*
Thrust Piece, for installation	*5596-03*

Item	Art. No.
Wheel Bearing Tool Set Front Axle	5596

Wheel Bearing Assembly Tool, rear axle, VAG

- for easy mounting of the wheel bearing/wheel hub unit on VAG models
- the bearing is pushed onto the rear axle journal without tension and without tilting
- pressure over the inner bearing ring prevents damage to the bearing during installation
- in Audi A1 (from ´10-´19), A2 (from ´00-´05), A3 (from ´96-´03) and TT (from´98-´06)
- in VW Bora (from ´98-´05), Caddy (from ´95-´04), Fox (from ´03-´14), Golf (from ´93-´05), Lupo (from ´98-´05) and Polo (from ´94)
- in Seat Arosa (from ´97-´04), Cordoba (from ´96-´09), Ibiza (from ´93), Leon (from ´99-´06) and Toledo (from ´98-´06)
- in Skoda Fabia (from ´99), Oktavia (from ´99-´10) and Roomster (from ´06-´15)

Item	OEM Comparison No.	Art. No.
Wheel Bearing Assembly Tool	3420, T20063	5551

Wheel Bearing Tool Set, ø 72 + 85 mm, Audi / VW

- comprehensive set for most vehicles from Audi / VW
- bearing-ø 72 mm in VW Polo (from 2002), Fox (from 2005), Audi A1 (from 2011), A2 (from 2000), Skoda Fabia (from 2000), Seat Ibiza (from 2002)
- bearing-ø 85 mm in VW T5, Touareg (with 16 inch running gear)

Content	for Ø	Application	Art. No.
Half Moon Pair	72 mm	disassembly	*5572-1*
Half Moon Pair	72 mm	assembly	*5572-2*
Thrust Piece	72 mm	assembly	*5572-M*
Thrust Bolts, 5 pcs.	62, 66, 72 mm	dis-/assembly	*5572-B*
Half Moon Pair	85 mm	disassembly	*5585-1*
Half Moon Pair	85 mm	assembly	*5585-2*
Thrust Piece	85 mm	assembly	*5585-M*
Adapter Sleeve for Rear Axle	85 mm	assembly	*5585-T5*
Thrust Bolts, 5 pcs.	75, 85 mm	dis-/assembly	*5585-B*
Thrust Spindle, screw nut	62 - 85 mm	dis-/assembly	*5580-SP*
Thrust Plate	62 - 85 mm	dis-/assembly	*5580-PL*
Thrust Piece	72, 85 mm	disassembly	*5580-D*

Item	for Ø	Art. No.
Wheel Bearing Tool Set	72, 85 mm	5579

assembly preparation bearing-ø 72 mm, disassembly bearing-ø 85 mm (hub view), disassembly bearing-ø 85 mm (rear view)

Wheel Bearing Tool Set, ø 72 mm, Audi / VW

- for VW Polo (from 2002), Fox (from 2005), Audi A1 (from 2011), A2 (from 2000), Skoda Fabia (from 2000), Seat Ibiza (from 2002)

Content	for Ø	Application	Art. No.
Half Moon Pair	72 mm	disassembly	*5572-1*
Half Moon Pair	72 mm	assembly	*5572-2*
Thrust Piece	72 mm	assembly	*5572-M*
Thrust Bolts, 5 pcs.	62, 66, 72 mm	dis-/assembly	*5572-B*
Thrust Spindle, screw nut	62 - 85 mm	dis-/assembly	*5580-SP*
Thrust Plate	62 - 85 mm	dis-/assembly	*5580-PL*
Thrust Piece	72, 85 mm	disassembly	*5580-D*

Item	for Ø	Art. No.
Wheel Bearing Tool Set	72 mm	5572

Wheel Bearing Tool Set, ø 85 mm, Audi / VW

- for VW T5, Touareg (with 16 inch running gear)

Content	for Ø	Application	Art. No.
Half Moon Pair	85 mm	disassembly	*5585-1*
Half Moon Pair	85 mm	assembly	*5585-2*
Thrust Piece	85 mm	assembly	*5585-M*
Adapter Sleeve for Rear Axle	85 mm	assembly	*5585-T5*
Thrust Bolts, 5 pcs.	75, 85 mm	dis-/assembly	*5585-B*
Thrust Spindle, screw nut	62 - 85 mm	dis-/assembly	*5580-SP*
Thrust Plate	62 - 85 mm	dis-/assembly	*5580-PL*
Thrust Piece	72, 85 mm	disassembly	*5580-D*

Item	for Ø	Art. No.
Wheel Bearing Tool Set	85 mm	5585

Wheel Bearing Tool Set, ø 78 + 82 mm, Ford / Mazda / Volvo

- comprehensive set for most vehicles from Ford
- for bearing-ø 78 mm in Ford C-Max, Ford Focus II, Mazda 3, Volvo C30, C70, S40, V50
- for bearing-ø 82 mm in Ford Mondeo (from 2007), Galaxy (from 2006), S-Max (from 2006), Focus, Focus RS, Land Rover Freelander 2 (from 2006), Volvo V60, S60, XC60, V70 (from 2007), XC70, S80 (from 2006)

Content	for Ø	Application	Art. No.
Half Moon Pair	78 mm	disassembly	*5578-1*
Half Moon Pair	78 mm	assembly	*5578-2*
Thrust Piece	78 mm	disassembly	*5578-D*
Thrust Piece	78 mm	assembly	*5578-M*
Half Moon Pair	82 mm	disassembly	*5582-1*
Half Moon Pair	82 mm	assembly	*5582-2*
Thrust Piece	82 mm	disassembly	*5582-D*
Thrust Piece	82 mm	assembly	*5582-M*
Thrust Bolts, 4 pcs.	78, 82 mm	dis-/assembly	*5578-B*
Thrust Spindle, screw nut	62 - 85 mm	dis-/assembly	*5580-SP*
Thrust Plate	62 - 85 mm	dis-/assembly	*5580-PL*

Item	for Ø	Art. No.
Wheel Bearing Tool Set	78, 82 mm	5583

Wheel Bearing Tool Set, ø 78 mm, Ford / Mazda / Volvo

- for Ford C-Max, Ford Focus II, Mazda 3, Volvo C30, C70, S40, V50

Content	for Ø	Application	Art. No.
Half Moon Pair	78 mm	disassembly	*5578-1*
Half Moon Pair	78 mm	assembly	*5578-2*
Thrust Piece	78 mm	disassembly	*5578-D*
Thrust Piece	78 mm	assembly	*5578-M*
Thrust Bolts, 4 pcs.	78, 82 mm	dis-/assembly	*5578-B*
Thrust Spindle, screw nut	62 - 85 mm	dis-/assembly	*5580-SP*
Thrust Plate	62 - 85 mm	dis-/assembly	*5580-PL*

Item	for Ø	Art. No.
Wheel Bearing Tool Set	78 mm	5578A

Wheel Bearing Tool Set, ø 82 mm, Ford / Land Rover / Volvo

- for Ford Mondeo (from 2007), Galaxy (from 2006), S-Max (from 2006), Focus, Focus RS, Land Rover Freelander 2 (from 2006), Volvo V60, S60, XC60, V70 (from 2007), XC70, S80 (from 2006)

Content	for Ø	Application	Art. No.
Half Moon Pair	82 mm	disassembly	*5582-1*
Half Moon Pair	82 mm	assembly	*5582-2*
Thrust Piece	82 mm	disassembly	*5582-D*
Thrust Piece	82 mm	assembly	*5582-M*
Thrust Bolts, 4 pcs.	78, 82 mm	dis-/assembly	*5578-B*
Thrust Spindle, screw nut	62 - 85 mm	dis-/assembly	*5580-SP*
Thrust Plate	62 - 85 mm	dis-/assembly	*5580-PL*

Item	for Ø	Art. No.
Wheel Bearing Tool Set	82 mm	5582

Accessory Kit for Wheel Bearing ø 62 mm, Audi / VW

- for VW Lupo, Audi A2 1.2L
- operation additionally requires thrust spindle No. 5580-SP, thrust plate No. 5580-PL and thrust bolts No. 5572-B

Content	for Ø	Application	Art. No.
Half Moon Pair	62 mm	disassembly	*5562-1*
Half Moon Pair	62 mm	assembly	*5562-2*
Thrust Piece	62, 66 mm	disassembly	*5566-D*
Thrust Piece	62, 66 mm	assembly	*5566-M*

Item	for Ø	Art. No.
Accessory Kit for Wheel Bearing Tool	62 mm	5562

Accessory Kit for Wheel Bearing ø 66 mm, Audi / VW

- for VW Polo, Skoda Fabia
- operation additionally requires thrust spindle No. 5580-SP, thrust plate No. 5580-PL and thrust bolts No. 5572-B

Content	for Ø	Application	Art. No.
Half Moon Pair	66 mm	disassembly	*5566-1*
Half Moon Pair	66 mm	assembly	*5566-2*
Thrust Piece	62, 66 mm	disassembly	*5566-D*
Thrust Piece	62, 66 mm	assembly	*5566-M*

Item	for Ø	Art. No.
Accessory Kit for Wheel Bearing Tool	66 mm	5566

Accessory Kit for Wheel Bearing ø 72 mm, Audi / VW

- for VW Polo (from 2002), Fox (from 2005), Audi A1 (from 2011), A2 (from 2000), Skoda Fabia (from 2000), Seat Ibiza (from 2002)
- operation additionally requires thrust spindle No. 5580-SP and thrust plate No. 5580-P
- fits perfectly in set No. 5585

Content	for Ø	Application	Art. No.
Half Moon Pair	72 mm	disassembly	*5572-1*
Half Moon Pair	72 mm	assembly	*5572-2*
Thrust Piece	72 mm	assembly	*5572-M*
Thrust Bolts, 5 pcs.	62, 66, 72 mm	dis-/assembly	*5572-B*

Item	for Ø	Art. No.
Accessory Kit for Wheel Bearing Tool	72 mm	5572-Z

Accessory Kit for Wheel Bearing ø 85 mm, Audi / VW

- for VW T5, Touareg (with 16 inch running gear)
- operation additionally requires thrust spindle No. 5580-SP and thrust plate No. 5580-PL
- fits perfectly in set No. 5572

Content	for Ø	Application	Art. No.
Half Moon Pair	85 mm	disassembly	*5585-1*
Half Moon Pair	85 mm	assembly	*5585-2*
Thrust Piece	85 mm	assembly	*5585-M*
Adapter Sleeve for Rear Axle	85 mm	assembly	*5585-T5*
Thrust Bolts, 5 pcs.	75, 85 mm	dis-/assembly	*5585-B*

Item	for Ø	Art. No.
Accessory Kit for Wheel Bearing Tool	85 mm	5585-Z

Accessory Kit for Wheel Bearing ø 78 mm, Ford / Mazda / Volvo

- for Ford C-Max, Ford Focus II, Mazda 3, Volvo C30, C70, S40, V50
- operation additionally requires thrust spindle No. 5580-SP and thrust plate No. 5580-PL
- fits perfectly in set No. 5582

Content	for Ø	Application	Art. No.
Half Moon Pair	78 mm	disassembly	*5578-1*
Half Moon Pair	78 mm	assembly	*5578-2*
Thrust Piece	78 mm	assembly	*5578-M*
Thrust Piece	78 mm	disassembly	*5578-D*
Thrust Bolts, 4 pcs.	78, 82 mm	dis-/assembly	*5578-B*

Item	for Ø	Art. No.
Accessory Kit for Wheel Bearing Tool	78 mm	5578-Z

Accessory Kit for Wheel Bearing ø 82 mm, Ford / Land Rover / Volvo

- for Ford Mondeo (from 2007), Galaxy (from 2006), S-Max (from 2006), Focus, Focus RS, Land Rover Freelander 2 (from 2006), Volvo V60, S60, XC60, V70 (from 2007), XC70, S80 (from 2006)
- operation additionally requires thrust spindle No. 5580-SP and thrust plate No. 5580-PL
- fits perfectly in set No. 5578A

Content	for Ø	Application	Art. No.
Half Moon Pair	82 mm	disassembly	*5582-1*
Half Moon Pair	82 mm	assembly	*5582-2*
Thrust Piece	82 mm	disassembly	*5582-D*
Thrust Piece	82 mm	assembly	*5582-M*
Thrust Bolts, 4 pcs.	78, 82 mm	dis-/assembly	*5578-B*

Item	for Ø	Art. No.
Accessory Kit for Wheel Bearing Tool	82 mm	5582-Z

Accessory Kit for Wheel Bearing ø 75 mm, Smart / Mitsubishi

- for Smart Forfour (from 2004), Mitsubishi Colt 6, front axle (from 2004)
- operation additionally requires thrust spindle No. 5580-SP and thrust plate No. 5580-PL

Content	for Ø	Application	Art. No.
Half Moon Pair	75 mm	disassembly	*5575-1*
Half Moon Pair	75 mm	assembly	*5575-2*
Thrust Piece	75 mm	disassembly	*5575-D*
Thrust Piece	75 mm	assembly	*5575-M*
Thrust Bolts, 5 pcs.	75, 85 mm	dis-/assembly	*5585-B*

Item	for Ø	Art. No.
Accessory Kit for Wheel Bearing Tool	75 mm	5575-Z

Wheel Bearing Tool Set, Mercedes rear axle

- for Mercedes W124 (E-class), W129 (SL-class), W201 (190), W202 (C-class)
- for assembly of wheel bearing and axle flange on rear axle
- spindle and nut with trapeziod thread

Content	Description	Art. No.
Spindle with Screw Nut	with ball bearing	*5534-SP*
Thrust Piece, small	for disassembly	*5534-D1*
Thrust Piece, large	for assembly	*5534-D2*
Puller Body	for bearing intake	*5534-AG*

Item	pcs	Art. No.
Wheel Bearing Tool Set	4	5534

Wheel Bearing Tool Set, 31 pcs.

- universally suitable for wheel bearings on many popular cars
- for assembly and disassembly of wheel bearings and hubs directly on the vehicles
- avoids removal of suspension struts, therefore does not require any subsequent measurement
- thrust contact on outer ring for professional assembly of bearing

Content	pcs	Ø	Art. No.
Spindle			*5531-SP*
Thrust Bolt Set, M12x1.5, 3 pcs.	3		*5531-M12*
Thrust Bolt Set, M14x1.5, 3 pcs.	3		*5531-M14*
Thrust Plate, for extractor bush 5531-C01 / -C02			*5531-P01*
Thrust Plate, for extractor bush 5531-C03 / -C04			*5531-P02*
Extractor Bush, inner-ø 69 mm x outer-ø 76 mm		76 mm	*5531-C01*
Extractor Bush, inner-ø 77.5 mm x outer-ø 86 mm		86 mm	*5531-C02*
Extractor Bush, inner-ø 82 mm x outer-ø 91 mm		91 mm	*5531-C03*
Extractor Bush, inner-ø 92.5 mm x outer-ø 102 mm		102 mm	*5531-C04*
Thrust Plate, ø 50.0 mm		50.0 mm	*5531-A01*
Thrust Plate, ø 55.0 mm		55.0 mm	*5531-A02*
Thrust Plate, ø 59.0 mm		59.0 mm	*5531-A03*
Thrust Plate, ø 63.3 mm		63.3 mm	*5531-A04*
Thrust Plate, ø 66.6 mm		66.6 mm	*5531-A05*
Thrust Plate, ø 70.3 mm		70.3 mm	*5531-A06*
Thrust Plate, ø 71.5 mm		71.5 mm	*5531-A07*
Thrust Plate, ø 73.1 mm		73.1 mm	*5531-A08*
Thrust Plate, ø 73.4 mm		73.4 mm	*5531-A09*
Thrust Plate, ø 74.8 mm		74.8 mm	*5531-A10*
Thrust Plate, ø 77.5 mm		77.5 mm	*5531-A11*
Thrust Plate, ø 81.5 mm		81.5 mm	*5531-A12*
Thrust Plate, ø 83.4 mm		83.4 mm	*5531-A13*
Thrust Plate, ø 88.4 mm		88.4 mm	*5531-A14*

Item	pcs	Art. No.
Wheel Bearing Tool Set	31	5531

Wheel Bearing Tool Set

- universally suitable for wheel bearings on many popular cars
- for assembly and disassembly of wheel bearings and hubs directly on the vehicles
- avoids removal of suspension struts, therefore does not require any subsequent measurement

Content	pcs	Ø	Art. No.
Spindle			*350-SP*
Thrust Bolt Set, M12x1.5, 3 pcs.	3		*350-M12*
Thrust Bolt Set, M14x1.5, 3 pcs.	3		*350-M14*
Extractor Bush, ø 86 mm		86 mm	*350-C1*
Extractor Bush, ø 91 mm		91 mm	*350-C2*
Extractor Sleeve, ø 76 mm		76 mm	*350-B*
Thrust Plate, ø 55.5 mm		55.5 mm	*350-A1*
Thrust Plate, ø 59 mm		59 mm	*350-A2*
Thrust Plate, ø 62 mm		62 mm	*350-A3*
Thrust Plate, ø 65 mm		65 mm	*350-A4*
Thrust Plate, ø 66 mm		66 mm	*350-A5*
Thrust Plate, ø 71.5 mm		71.5 mm	*350-A6*
Thrust Plate, ø 73 mm		73 mm	*350-A7*
Thrust Plate, ø 78 mm		78 mm	*350-A8*
Thrust Plate, ø 84 mm		84 mm	*350-A9*

Item	Art. No.
Wheel Bearing Tool Set	350

Universal Press and Pull Sleeve Set, 24 pcs.

- for removal and replacement of bearings silent blocks, ball bearings, rubber bearings, also bushes, oil seals, etc.
- 4 spindles: M10, 12, 14, 16
- spindle length: 350 mm
- spindle nuts equipped with thrust bearings
- 20 thrust sleeves, slitted pattern for monitoring work progress,
  outer-ø: 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82 mm
  inner-ø: 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72 mm

Item	pcs	Art. No.
Universal Press and Pull Sleeve Set	24	5505

spare parts

Item	Art. No.
Thrust Spindle with Screw Nuts, 350 mm long, M10	*5505-M10*
Thrust Spindle with Screw Nuts, 350 mm long, M12	*5505-M12*
Thrust Spindle with Screw Nuts, 350 mm long, M14	*5505-M14*
Thrust Spindle with Screw Nuts, 350 mm long, M16	*5505-M16*

Press Frame

- for extracting workpieces without bore, e.g. supporting joints or bushes with too small bore
- valuable accessory for common press and pull sleeve sets, e.g. No. 5505
- open c-shaped construction allows more flexible operation directly on vehicle compared to conventional press frames
- magnetic holders on thrust plates for convenient working
- with impact quality M18 vibration spindle; the momentum produced by impact wrench acts like hammer strokes on the workpiece, thus causing tight connections to break open
- can be converted for use with hydraulic spindle (UN1.1/2"x16 thread), e.g. No. 5501

Content	Description	pcs	Art. No.
Press Frame	clearance 220 x 95 mm		*5508-BG*
Spindle, with thread insert	impact quality M18 vibration spindle		*5508-SP*
Thrust Plate Set	for spindle, frame and hydraulic spindle	3	*5508-PT*

Item	Description	Art. No.
Press Frame	clearance 220 x 95 mm	5508

accessory

Item	Art. No.
Universal Press and Pull Sleeve Set, 24 pcs.	5505
Hydraulic Spindle, 12 t	5501
Adapter Sleeve, for using 5507-3 and 5507-4 with 5508	5507-1

bush extraction on suspension arm

impact quality specialist spindle

applying hydraulic spindle 5501 with press and pull sleeve set 5505

Rear Axle Bush Assembly Tool, Audi / VW

- for assembly of main bearings on rear axle
- on VW Golf IV, Polo 9N, Bora and New Beetle
- on Audi A3 and TT
- on Skoda Fabia, Fabia Praktik and Oktavia
- on Seat Ibiza IV, Cordoba, Leon and Toledo II
- fits precisely on axle casing for support, allowing correct alignment when assembling new bush
- not suitable for disassembly of old bushes

Content	Description	Art. No.
Spindle, 2x screw nut	1x screw-down nut with ball-bearing	*5550-SP*
Thrust Piece	counter bearing on axle casing	*5550-D1*
Thrust Piece	for bush assembly	*5550-D2*

Item	Art. No.
Rear Axle Bush Assembly Tool	5550

Silent Block Service Set, Audi / VW

- designed for the silent blocks in the front axle bracket
- quick assembly / disassembly directly on the vehicle
- on VW Polo (9N)
- on Seat Ibiza IV, Cordoba (from ‘02), Altea
- on Audi A2

Content	Description	Art. No.
Thrust Spindle	3 pcs.	*5512-DS*
Spindle Pilot	with pilot flute	*5512-03*
Thrust Piece, small	for disassembly	*5512-D6*
Bush Guide	for assembly	*5512-D7*
Thrust Piece, large	for assembly	*5512-D8*

Item	Art. No.
Silent Block Service Set	5512

15

Specialist Socket, VW T4

- for assembly work on torsion bar springs
- required when working on wheel bearings, supporting joints etc.

Item	Profile	Size	Drive	OEM Comparison No.	Length	Art. No.
Socket	hexagon	27 mm	1/2"	3257	140 mm	5544

Wheel Bearing Circlip Pliers for Citroen, Nissan, Peugeot and Renault

- for circlips without holes on the wheel bearings
- disassembly of the retaining rings without special tools is almost impossible
- during wheel bearing replacement and chassis repair
- suitable for:
  Citroen Saxo, Xsara, Xsara Break and Xsara Coupe
  Peugeot 106 II, 206, 206SW, 206 Plus, 306, 306 Break and 306 Cabrio
  Nissan Micra
  Renault Clio

Item	Art. No.
Wheel Bearing Circlip Pliers	4746

Assembly Tool for Rear Suspension Bush, Renault

- for Renault Laguna II
- for convenient disassembly and assembly of rear axle box arrangement

Item	Description	Art. No.
Assembly Tool for Rear Suspension Bush	ball bearing spindle	5511

Tooth Socket, MB Sprinter rear axle

- also suitable for identically constructed VW LT vehicles
- required when working on wheel bearings and stud axles
- manufactured from specialist steel

Item	Profile	Drive	Art. No.
Tooth Socket	6 pins	3/4"	5541

Universal Bearing Race and Seal Driver

- e.g. for bearing rings, bushings, etc.
- continuously adjustable for desired diameter
- no additional plates necessary
- hexagon screw for fastening
- solid handle with knurling for perfect grip
- solid striking surface ø 32 mm

Item	Ø	Description	Art. No.
Universal Bearing Race and Seal Driver	18.5 - 89 mm	3-stepped design	5451

Bearing and Seal Driver Set, 51 pcs.

- to press and extract bearings, bushes etc.
- 49 thrust plates: ø 18 - 65 mm (increasing by 1 mm each size), 74 mm
- 1 receiver, can hold max. 2 thrust plates
- 1 impact driver
- use accessory thrust plate adapter No. 8752 (not included) to apply thrust plates with air hammer No. 8810
- also suitable for using in workshop press

Item	pcs	Art. No.
Bearing and Seal Driver Set	51	5452

accessory

Item	Art. No.
Thrust Plate Adapter, for using No. 5452 with air hammer	8752
Air Hammer, quick release coupler, round shaft ø 10.2 mm	8810

Bearing and Seal Driver Set, 21 pcs.

- to press and extract bearings, bushes etc.
- 17 thrust plates: ø 70 - 150 mm (increasing by 5 mm each size)
- 2 receivers, can hold max. 2 thrust plates
- 1 impact driver
- 1 hexagon key, 3 mm
- use accessory thrust plate adapter No. 8752 (not included) to apply thrust plates with air hammer No. 8810
- also suitable for using in workshop press

Item	pcs	Art. No.
Bearing and Seal Driver Set	21	5453

accessory

Item	Art. No.
Air Hammer, quick release coupler, round shaft ø 10.2 mm	8810
Thrust Plate Adapter, for using No. 5452 with air hammer	8752

Bearing and Seal Driver Set, 10 pcs.

- to press and extract shafts, bearings etc.
- 9 thrust plates, bore ø 14 mm, outer-ø: 40, 44, 50, 59, 63, 65, 72, 76, 81 mm
- 1 punch

Item	pcs	Art. No.
Bearing and Seal Driver Set	10	5450

Wheel Hub and Drive Shaft

Hydraulic Puller for Propshafts

- hydraulically assisted puller, reduces effort during disassembly
- with optional accessory also applicable as wheel hub puller
- hydraulic spindle can be operated by hand or ratchet
- for 4 and 5-hole wheel hubs with hole circle between 98-125 mm
- spindle pressure: max. 12 t

Content	Description	Art. No.
Flange for Propshafts and Hubs	bolt circle 98-125 mm	5445-AF
Hydraulic Spindle	max. 12 t	5501

Item	Art. No.
Hydraulic Puller for Propshafts	5445

accessory

Item	Art. No.
Thread Adapter, M18x1.5, for No. 5445 combined with No. 4925	5445-M18
Sliding Hammer, 5 kg weight, M18x1.5, 710 mm	4925

Drive shaft and wheel hub extraction flange, with impact spindle

- facilitates the loosening of stuck drive shafts or wheel hubs
- for 4- or 5-hole wheel hubs with hole circle 98-125 mm
- common thread UN 1.1/2" x 16, can be combined with many pullers
- Application: Screw impact spindle into extraction flange and tighten firmly with impact key; then hit spindle head with hammer to loosen the stuck drive shaft or wheel hub

Content	Description	Art. No.
Flange for Propshafts and Hubs	bolt circle 98-125 mm	5445-AF
Impact Spindle	with impact key and mandrel	5502

Item	Art. No.
Hydraulic Puller for Propshafts	5502-AF

Flange incl. 5 washers

- for extracting propshafts and pulling wheel hubs
- for 4 and 5-hole wheel hubs with hole circle between 98-125 mm
- to be operated with sliding hammer or hydraulic spindle
- connecting thread: UN1.1/2"x16

Item	Description	Art. No.
Flange for Propshafts and Hubs	bolt circle 98-125 mm	5445-AF

accessory

Item	Art. No.
Hydraulic Spindle, 12 t	5501
Thread Adapter, M18x1.5, for No. 5445 combined with No. 4925	5445-M18
Sliding Hammer, 5 kg weight, M18x1.5, 710 mm	4925

Hydraulic Spindle

- connecting thread: UN1.1/2"x16

Item	Description	Art. No.
Hydraulic Spindle	max. 12 t	5501

accessory

Item	Art. No.
Press Frame, c-type	5508

Thread Adapter for Wheel Hub Puller

- accessory, required when operating flange No. 5445-AF with sliding hammer No. 4925
- for pulling wheel hubs

Item	Description	Art. No.
Thread Adapter	UN1.1/2"x16 x M18x1.5	5445-M18

Wheel Hub Puller, 8.5 kg weight

Content	Striking Weight	Description	Art. No.
Sliding Hammer	8.5 kg	connecting thread M18x1.5	4928
Flange for Propshafts and Hubs		bolt circle 98-125 mm	5445-AF
Thread Adapter		UN1.1/2"x16 x M18x1.5	5445-M18

Item	Art. No.
Wheel Hub Puller, 8.5 kg weight	4928-AF

Wheel Hub Puller, 5 kg weight

Content	Striking Weight	Description	Art. No.
Sliding Hammer	5 kg	connecting thread M18x1.5	4925
Flange for Propshafts and Hubs		bolt circle 98-125 mm	5445-AF
Thread Adapter		UN1.1/2"x16 x M18x1.5	5445-M18

Item	Art. No.
Wheel Hub Puller, 5 kg weight	4925-AF

Universal Wheel Hub Counter Holding Tool Set, 6 pcs.

- for counter holding the wheel hub when loosening/tightening the central screw or drive shaft screw connection
- for wheel hubs with wheel fixing thread M12 or M14
- 2 plastic adapters for wheel hub cups of different depths
- allows working without a second person

Content	Art. No.
Mounting bracket	*4802-01*
Plastic adapter-Set, 2-pcs.	*4802-02*
Fixing bolt set, 3-pcs.	*4802-03*

Item	pcs	Art. No.
Wheel Hub Counter Holding Tool Set	6	4802

Impact Socket Bit Set, 6 pcs., 1/2", CrMo, spline M14-18

- e.g. for assembly work on running gear of recent Audi / VW models

Content	Profile	Size	Drive	Length	Art. No.
Impact Socket Bit	Spline	M14	1/2"	40 mm	12011-K14
Impact Socket Bit	Spline	M16	1/2"	40 mm	12011-K16
Impact Socket Bit	Spline	M18	1/2"	40 mm	12011-K18
Impact Socket Bit	Spline	M14	1/2"	78 mm	12071-K14
Impact Socket Bit	Spline	M16	1/2"	78 mm	12071-K16
Impact Socket Bit	Spline	M18	1/2"	78 mm	12071-K18

Item	Profile	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	Spline	M14-18	1/2"	6	5002

accessory

Item	Art. No.
Impact Socket Bit, 1/2", spline M12x78 mm	12071-K12

Drive Shaft Sockets, 8 pcs., 3/4", bi-hexagon + hexagon

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.
- for hexagon screw connections in propshafts

Content	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	27 mm	3/4"	90 mm	5208-27
Drive Shaft Socket	bi-hexagon	30 mm	3/4"	90 mm	5208-30
Drive Shaft Socket	bi-hexagon	32 mm	3/4"	90 mm	5208-32
Drive Shaft Socket	bi-hexagon	34 mm	3/4"	90 mm	5208-34
Drive Shaft Socket	bi-hexagon	36 mm	3/4"	90 mm	5208-36
Impact Socket Bit	Hexagon	14 mm	3/4"	60 mm	15022-K14
Impact Socket Bit	Hexagon	17 mm	3/4"	60 mm	15022-K17
Impact Socket Bit	Hexagon	19 mm	3/4"	60 mm	15022-K19

Item	Profile	Drive	pcs	Art. No.
Impact Socket Set	bi-hexagon, Hexagon	3/4"	8	5208

Accessory

Item	Art. No.
Drive Shaft Socket, 3/4", CrMo, bi-hex 24 mm	5208-24

Drive Shaft Sockets, 12 pcs., 1/2", bi-hexagon / spline / hexagon

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.
- for hexagon screw connections in propshafts

Content	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	24 mm	1/2"	85 mm	4803-24
Drive Shaft Socket	bi-hexagon	27 mm	1/2"	85 mm	4803-27
Drive Shaft Socket	bi-hexagon	30 mm	1/2"	85 mm	4803-30
Drive Shaft Socket	bi-hexagon	32 mm	1/2"	85 mm	4803-32
Drive Shaft Socket	bi-hexagon	34 mm	1/2"	85 mm	4803-34
Drive Shaft Socket	bi-hexagon	36 mm	1/2"	85 mm	4803-36
Impact Socket Bit	Spline	M14	1/2"	78 mm	12071-K14
Impact Socket Bit	Spline	M16	1/2"	78 mm	12071-K16
Impact Socket Bit	Spline	M18	1/2"	78 mm	12071-K18
Impact Socket Bit	Hexagon	14 mm	1/2"	40 mm	12022-K14
Impact Socket Bit	Hexagon	17 mm	1/2"	40 mm	12022-K17
Impact Socket Bit	Hexagon	19 mm	1/2"	40 mm	12022-K19

Item	Profile	Drive	pcs	Art. No.
Impact Socket Set	bi-hexagon, Spline, Hexagon	1/2"	12	37148

Drive Shaft Socket Set

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.
- for hexagon screw connections in propshafts

Content	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	27 mm	1/2"	85 mm	4803-27
Drive Shaft Socket	bi-hexagon	30 mm	1/2"	85 mm	4803-30
Drive Shaft Socket	bi-hexagon	32 mm	1/2"	85 mm	4803-32
Drive Shaft Socket	bi-hexagon	34 mm	1/2"	85 mm	4803-34
Drive Shaft Socket	bi-hexagon	36 mm	1/2"	85 mm	4803-36
Impact Socket Bit	Hexagon	14 mm	1/2"	40 mm	12022-K14
Impact Socket Bit	Hexagon	17 mm	1/2"	40 mm	12022-K17
Impact Socket Bit	Hexagon	19 mm	1/2"	40 mm	12022-K19

Item	Profile	Size	Drive	Length	pcs	Art. No.
Impact Socket Set	bi-hexagon	27, 30, 32, 34, 36 mm	1/2"	85 mm	8	4808

Drive Shaft Socket Set, 3 pcs., 1/2", bi-hexagon

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.

Content	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	30 mm	1/2"	85 mm	4803-30
Drive Shaft Socket	bi-hexagon	32 mm	1/2"	85 mm	4803-32
Drive Shaft Socket	bi-hexagon	36 mm	1/2"	85 mm	4803-36

Item	Profile	Size	Drive	Length	pcs	Art. No.
Impact Socket Set	bi-hexagon	30, 32, 36 mm	1/2"	85 mm	3	4803

Ball Joint Screw Socket, 1/2", CrMo, bi-hex 41 mm, BMW

- for disassembly/assembly of the lower bolted suspension joints on the front axle
- in BMW 5-series (F07, F10, F11), 6-series (F06, F12, F13) and 7-series (F01, F02, F03, F04)
- e.g. for suspension joint OEM 31126777753

Item	Profile	Size	Drive	Length	Art. No.
Ball Joint Screw Socket	bi-hexagon	41 mm	1/2"	85 mm	4803-41A

Drive Shaft Sockets, deep, CrMo

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.

Item	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	24 mm	1/2"	85 mm	4803-24
Drive Shaft Socket	bi-hexagon	27 mm	1/2"	85 mm	4803-27
Drive Shaft Socket	bi-hexagon	30 mm	1/2"	85 mm	4803-30
Drive Shaft Socket	bi-hexagon	32 mm	1/2"	85 mm	4803-32
Drive Shaft Socket	bi-hexagon	33 mm	1/2"	85 mm	4803-33
Drive Shaft Socket	bi-hexagon	34 mm	1/2"	85 mm	4803-34
Drive Shaft Socket	bi-hexagon	35 mm	1/2"	85 mm	4803-35
Drive Shaft Socket	bi-hexagon	36 mm	1/2"	85 mm	4803-36
Drive Shaft Socket	hexagon	41 mm	1/2"	85 mm	4803-41
Drive Shaft Socket	bi-hexagon	46 mm	1/2"	85 mm	4803-46

Drive Shaft Sockets, deep, CrMo

- for driveshaft and propshaft screw connections, crankshaft center bolts, gearbox flange, screwed supporting joints etc.

Item	Profile	Size	Drive	Length	Art. No.
Drive Shaft Socket	bi-hexagon	24 mm	3/4"	90 mm	5208-24
Drive Shaft Socket	bi-hexagon	27 mm	3/4"	90 mm	5208-27
Drive Shaft Socket	bi-hexagon	30 mm	3/4"	90 mm	5208-30
Drive Shaft Socket	bi-hexagon	32 mm	3/4"	90 mm	5208-32
Drive Shaft Socket	bi-hexagon	34 mm	3/4"	90 mm	5208-34
Drive Shaft Socket	bi-hexagon	36 mm	3/4"	90 mm	5208-36

Impact Socket Bit, 3/4", spline M18x60 mm

- for operating the wheel bearing screw on rear axle of e.g. Audi A3, VW Golf V, Polo, Touran and identically constructed Skodas
- for operating the central locking screw on rear axles of e.g. Audi A3, Golf V and Seat Altea
- ideal for use in combination with telescopic ratchet Condor Nr. 22555

Item	Profile	Size	Drive	Length	Art. No.
Impact Socket Bit	Spline	M18	3/4"	60 mm	15011-K18

Socket Bit, extra long, 1/2", spline, 800 mm

- for disassembly/assembly of the drive shaft bolts on the gearbox side
- the special length allows working without dismantling the wheel
- e.g. for vehicles from the VAG Group

Item	Profile	Size	Drive	Art. No.
Socket Bit, extra long	Spline	8 mm	1/2"	12801-8
Socket Bit, extra long	Spline	10 mm	1/2"	12801-10
Socket Bit, extra long	Spline	12 mm	1/2"	12801-12
Socket Bit, extra long	Spline	14 mm	1/2"	12801-14

Socket Bit, extra long, 3/8", hexagon 6x350 mm

- offset tip for better access to the screws
- for disassembly/assembly of the right-hand stub shaft
- for vehicles with 6-speed manual gearbox 0A5 (all-wheel drive) and 02N
- in VW Transprter (from '04), Sharan (1996)

Item	Profile	Size	Drive	OEM Comparison No.	Art. No.
Socket Bit, extra long	Hexagon	6	3/8"	T10107 / T10107A	13352-6

Die Set for Drive Shafts, 8 pcs.

- for cleaning and rethreading drive shaft threads

Content	Size	Drive	Art. No.
Thread Chaser	M20 x 1.25	32 mm hex	*4840-01*
Thread Chaser	M20 x 1.50	32 mm hex	*4840-02*
Thread Chaser	M22 x 1.00	32 mm hex	*4840-03*
Thread Chaser	M22 x 1.50	32 mm hex	*4840-04*
Thread Chaser	M24 x 1.50	32 mm hex	*4840-05*
Thread Chaser	M24 x 2.00	32 mm hex	*4840-06*
Thread Chaser	3/4" x 20 UNF	32 mm hex	*4840-07*
Thread Chaser	13/16" x 20 UNF	32 mm hex	*4840-08*

Item	Art. No.
Die Set For Drive Shafts	4840

15

Drive Shaft Feeder, 7 pcs.

- for assembling drive shaft gearing into wheel hub
- also for corroded or dirty wheel hubs
- avoids hammer strike damage to bearings
- manufactured from high-strength steel
- for e.g. VW, Audi, BMW, Porsche, Subaru
- 6x feeder nuts:
  M16x1.5, M20x1.5, M22x1.5, M24x1.5, M27x1.5, M30x1.5

Item	Description	pcs	Art. No.
Drive Shaft Feeder	ball bearing	7	5439

Separator for Driveshaft Joints

- for front-wheel driven vehicles
- for replacing the boot without disassembly of the driveshaft
- suitable for Audi, Seat, Skoda, VW and many other manufacturers
- place separator over driveshaft and connect with traverse, then operate driveshaft bolt to disconnect the joint from the driveshaft

Item	Description	Art. No.
Separator for Driveshaft Joints	adjustable	4573

Drive Shaft Dismounting Tool, universal

- for easy levering of drive shafts (also with spring washer) out of the gearbox housing
- for use on vehicles with front wheel drive, e.g. Ford, Mazda, Volvo, Renault, Dacia
- reduces the risk of damage to the joint and transmission housing
- handle with dip insulation, made of hardened steel with specially heat-treated lever points

Item	Length	Jaw Width	Art. No.
Drive Shaft Dismounting Tool	390 mm	82 mm	5438

Driveshaft Circlip Pliers

- for lock rings on e.g. driveshafts and transmissions

Content	Tips	Length	Art. No.
Driveshaft Circlip Plier	bent 30°	210 mm	4745-1
Driveshaft Circlip Plier	bent 90°	210 mm	4745-2
Driveshaft Circlip Plier	slightly bent	210 mm	4745-3

Item	pcs	Art. No.
Driveshaft Circlip Plier Set	3	4745

4745-1, 4745-2, 4745-3

Universal Joint Extractor Bolt Set, 2 pcs.

- for jacking the external joint, e.g. when replacing axle collar clamps
- with ball-head tips for protecting the shaft
- for Audi, Seat, Skoda and VW
- manufactured in Germany
- application: shaft and joint must be on same level to prevent bolt tips from breaking.
  !!! NOT suitable for sleeve shafts !!!

Content	Size	Drive	Length	Art. No.
Universal Joint Bolt Extractor	M14x1.5	19 mm hex	108 mm	5524
Universal Joint Bolt Extractor	M16x1.5	19 mm hex	108 mm	5526

Item	Size	Art. No.
Universal Joint Extractor Bolt Set, 2 pcs.	M14x1.5, M16x1.5	5522

Clamp Pliers for Axle Collar Clamps

- for operating clamps from "Oetiker" (not for stainless steel clamps!)
- found on axle collars, also radiator hoses, fuel hoses etc.
- suitable for e.g.: Audi, BMW, Ford, GM, Opel, Nissan, Mercedes, Mazda, Honda, Chrysler, Citroen, Seat

Item	Length	Art. No.
Clamp Pliers	235 mm	4735

Clamp Pliers for Axle Collar Clamps

- for operating clamps from "Oetiker"
- also suitable for stainless steel clamps
- found on axle collars, also radiator hoses, fuel hoses etc.
- 1/2" square to be operated by torque wrench
- suitable for e.g.: Audi, BMW, Ford, GM, Opel, Nissan, Mercedes, Mazda, Honda, Chrysler, Citroen, Seat

Item	Description	Length	Art. No.
Clamp Pliers	with 2x 1/2" square	235 mm	4736

Clamp Pliers for Axle Collar Clamps

- new design with interchangeable jaws also allows lateral work, e.g. on steering gear boots
- for stainless steel clamps with torque specification
- 3/8" sq. drive to be operated with torque wrench
- also for reinforced stainless steel clamps (Oetiker)
- specially for Ford, Opel, Audi / VW etc.
- chrome-vanadium-steel

Item	Description	Length	Art. No.
Clamp Pliers for Axle Collar Clamps	solid steel body	260 mm	4724

accessory

Item	Art. No.
Spare Jaw Set, 2 pcs. incl. scews, for Clamp Pliers No. 4724	*4724-01*

Hose Clamp Pliers

- for earless hose clamps, e.g. on CV boots, radiator and fuel hoses

Item	Length	Art. No.
Hose Clamp Pliers	205 mm	4738

Hose Clamp Installer

- with ratchet and cutter
- for free-end hose clamps
- specially for CV boot clamps

Item	Description	Art. No.
Hose Clamp Installer	for free-end hose clamps	9310

Steering, Track Rod and Supporting Joint

15

Press Frame and Thrust Piece Set, 11 pcs.

- for Mercedes ball joints
- for disassembly / assembly of the outer ball joint and the stabiliser ball joint on the lower front wishbone
- c-shaped press frame allows all work to be carried out directly on the vehicle
- removal of other vehicle parts such as steering knuckles is not necessary
- spindle with trapezoid thread, suitable for impact wrenches
- for Mercedes series:
  R129 (SL), W164 (M-Class), X164 (GL-Class), S211 (E-Class T-Model), W211 (E-Class), C215 (S-Class Coupe), C219 (CLS), V220 (S-Class), W220 (S-Class), R230 (SL), V251 (R-Class), W251 (R-Class)

Content	OEM Comparison No.	Art. No.
Press Frame, c-type	129589034300 (+5507A-02)	*5507A-01*
Spindle, trapezoid thread	129589034300 (+5507A-01)	*5507A-02*
Thrust Piece, removal	164589034300	*5507A-03*
Pin Wrench, for ball joint	385589000700	*5507A-04*
Thrust Piece Set, removal and installation, 3 pcs.	220589074300	*5507A-05*
Thrust Piece Set, removal, 2 pcs.	140589064300	*5507A-06*
Thrust Piece Set, installation, 2 pcs.	220589034300	*5507A-07*

Item	Application	pcs	Art. No.
Press Frame / Thrust Piece Set	support joint	11	5507A

Front Axle Upperball Joint Extractor, VW T4

- specialist tool for e.g. T4 Bus, Multivan, California
- for disassembly / assembly of upper ball joint, front axle, supporting joint
- significant time saving (approx. 2-3 hours) when replacing supporting joints, rubber metal bearings / silent blocks, because disassembly of control arm is not necessary anymore
- the upper ball joint can replaced in approx. 30 min. without removing the control arm

Content	Description	pcs	Art. No.
Main Body	impact quality spindle		*5514-GG*
Fork Set	jaw width 51 + 55 mm	2	*5514-GS*
Thrust Piece Set	for assembly / disassembly	3	*5514-DS*

Item	Art. No.
Front Axle Upperball Joint Extractor	5514

Tooth Socket, Mercedes suspension joints

- for Mercedes M-class
- for disassembly / assembly of screwed supporting joints
- for front and rear axle

Item	Profile	Drive	Art. No.
Tooth Socket	4 pins	1/2"	5542

Tooth Socket, PSA suspension joints

- for Citroen and Peugeot cars
- for disassembly / assembly of screwed supporting joints
- Citroen BX (´09/82-´94), C5, Xantia, Peugeot 305 (´07/82-´90), 405 (from ´06/87 onwards), 406, 605 and 607

Item	Profile	Drive	Art. No.
Tooth Socket	4 pins	1/2"	5543

Ball Joint Screw Socket, 1/2", CrMo, hex 44 mm, PSA

- for disassembly/assembly of the bolted suspension joints on the front axle
- for use with Citroen Dispatch, Jumpy and SpaceTourer
- Peugeot Expert and Traveller
- Toyota Proace

Item	Profile	Size	Drive	Length	Art. No.
Ball Joint Screw Socket	hexagon	44 mm	1/2"	85 mm	5546

Tooth Socket, Citroen / Peugeot suspension joints, bottom

- for Citroen and Peugeot cars
- for disassembly / assembly of the lower bolted suspension joint
- in Citroen C5 III and C6
- in Peugeot 407 (6C/6D/6E) and 508 (8D/8E)

Item	Profile	Ø	Drive	OEM Comparison No.	Art. No.
Tooth Socket	4 pins	60 mm	1/2"	1607298680, 364057, 364074	5545

Ball Joint Separator, impact quality, 35 mm

- spindle with pivoted ball for use with impact wrenches
- significantly higher loosening torque due to rotation and impact impulse
- vibrations generated by the impact wrench provide additional for faster release of tight ball joints
- vision panel for visual control while working
- ideal for use with MB Sprinter, VW LT, VW Crafter
- spread: 60 mm
- jaw width: 35 mm

Item	Spread	Jaw Width	Art. No.
Ball Joint Separator	60 mm	35 mm	4535

Ball Joint Separators

- for extracting ball joints e.g. on track rod ends
- for almost all cars and vans

Item	Spread	Jaw Width	Art. No.
Ball Joint Separator	52 mm	23 mm	4566-1
Ball Joint Separator	52 mm	28 mm	4566-2
Ball Joint Separator	62 mm	34 mm	4566-3

Ball Joint Separator Set, 3 pcs.

- for extracting ball joints e.g. on track rod ends
- for almost all cars and vans

Content	Spread	Jaw Width	Art. No.
Ball Joint Separator	52 mm	23 mm	4566-1
Ball Joint Separator	52 mm	28 mm	4566-2
Ball Joint Separator	62 mm	34 mm	4566-3

Item	Jaw Width	pcs	Art. No.
Ball Joint Separator Set	23 / 28 / 34 mm	3	4565

Ball Joint Separator Set, 6 pcs.

- for extracting ball pins on ball joints, steering knuckles, track rod ends
- suitable for vans, 4-wheel drives and heavy cars
- universal tool with 5 quick change separator forks
- adjustable spread and pressure range

Content	Spread	Jaw Width	Art. No.
Main Body	95 mm		*3458-GG*
Quick-Change Fork		20 mm	*3458-20*
Quick-Change Fork		22 mm	*3458-22*
Quick-Change Fork		24 mm	*3458-24*
Quick-Change Fork		27 mm	*3458-27*
Quick-Change Fork		30 mm	*3458-30*

Item	pcs	Art. No.
Ball Joint Separator Set	6	3458

Hydraulic Ball Joint Separator, 8 t

- suitable for heavy cars, 4-wheel drives and vans

Content	Spread	Jaw Width	Description	Art. No.
Puller Body	60 mm	30 mm		*5516-GL*
Hydraulic Spindle			max. 8 t	*5517-HS*

Item	Art. No.
Hydraulic Ball Joint Separator, 8 t, 30 mm	5516

Hydraulic Ball Joint Separator, 8 t

- with lever transmission, 2 to 1
- for extracting ball pins on ball joints, steering knuckles, track rod ends

Content	Spread	Jaw Width	Description	Art. No.
Ball Joint Separator	56 mm	22 mm		*5517-GG*
Hydraulic Spindle			max. 8 t	*5517-HS*

Item	Art. No.
Hydraulic Ball Joint Separator, 8 t, 22 mm	5517

Ball Joint Separator, open, forged

- for extracting ball joints e.g. on track rod ends

Item	Spread	Jaw Width	Art. No.
Ball Joint Separator	46 mm	23 mm	4575-23
Ball Joint Separator	65 mm	29 mm	4575-29

Ball Joint Separators

- forged, chrome plated
- range adjustable in 2 positions
- for extracting ball joints when disassembling track rods and supporting joints on front axle

Item	Spread	Jaw Width	Art. No.
Ball Joint Separator	30 / 55 mm	21 mm	182
Ball Joint Separator	60 / 80 mm	21 mm	182EX

182

182EX

Ball Joint Separator

- forged, chrome plated
- for extracting ball joints when disassembling track rods, steering rods stabilizer etc.
- for almost all cars and vans

Item	Spread	Jaw Width	Art. No.
Ball Joint Separator	50 mm	20 mm	183

Ball Joint Separator, forged

- for extracting ball joints e.g. on track rod ends

Item	Spread	Jaw Width	Art. No.
Ball Joint Separator	46 mm	15 mm	4570

Track Rod Wrench

- extra long lever for loosening and turning stubborn track rods
- with self-clamping jaw
- broad jaw to prevent damage to track rod
- toothed jaw for extra grip
- for cars, light SUVs and vans

Item	for Ø	Length	Art. No.
Track Rod Wrench	9 - 22 mm	390 mm	4576

Track Rod Joint Wrenches

- for disassembly / assembly of axial track rod joints
- considerable time saving advantage due to open construction and clamping of rod ends
- drive pipe operated with 1/2" sq. drive ratchet or 27 mm wrench

Item	for Ø	Drive	Art. No.
Track Rod Joint Wrench	28 - 35 mm	1/2" / 27 mm hex	4577
Track Rod Joint Wrench	35 - 45 mm	1/2" / 27 mm hex	4574

Separation Forks

- for separating ball joints e.g. on track rods
- forged carbon steel

Item	Length	Jaw Width	Art. No.
Separation Fork	300 mm	25 mm	4555
Separation Fork	400 mm	20 mm	4556

Separation Fork Set, 5 pcs.

- for separating ball joints e.g. on track rods
- forged carbon steel

Content	Length	Jaw Width	Art. No.
Separation Fork	300 mm	28.6 mm	*4557-28*
Separation Fork	300 mm	36.5 mm	*4557-36*
Separation Fork	300 mm	41.3 mm	*4557-41*
Separation Fork	400 mm	17.4 mm	*4557-17*
Separation Fork	400 mm	23.8 mm	*4557-23*

Item	pcs	Art. No.
Separation Fork Set	5	4557

Separation Fork Set, 5 pcs.

- for separating ball joints e.g. on track rods
- forged carbon steel
- can be operated manually or by air hammer

Content	Round Shank	Length	Jaw Width	Art. No.
Air Hammer Adapter	ø 10 mm			*4558-DA*
Manual Adapter		200 mm		*4558-MA*
Separation Fork Attachment			17.4 mm	*4558-G1*
Separation Fork Attachment			23.8 mm	*4558-G2*
Separation Fork Attachment			28.5 mm	*4558-G3*

Item	pcs	Art. No.
Separation Fork Set	5	4558

accessory

Item	Art. No.
Air Hammer, quick release coupler, round shaft ø 10.2 mm	8810

Track Rod Gauge

- for replacing track rod ends without axle measurement

Before removing the old track rod end, the gauge will measure the distance of the track rod end to a predetermined position on the track rod. This measurement is reapplied after assembly of the new track rod end (track width is not checked with this tool).

Content	Description	pcs	Art. No.
Holding Body	with pilot bolt for adjustment tube		*5339-GH*
Clamping Jaws	for holding body	2	*5339-KB*
Adjustment Tube	with locking screw, 140 mm long		*5339-VR*
Depth Feeler	for track rods on VW 4-link axles		*5339-TA*
Ball Pin Adapter	for ø 10 mm, 135 mm long		*5339-A1*
Ball Pin Adapter	for ø 12 mm, 135 mm long		*5339-A2*
Ball Pin Adapter	for ø 12 mm, 235 mm long		*5339-A3*
Ball Pin Adapter	for ø 17.5 mm, 140 mm long		*5339-A4*

Item	Art. No.
Track Rod Gauge	5339

Special Socket Spanner, for tie rod end removal and installation

- for easy mounting and dismounting of tie rod ends
- universal use on almost cars and vans
- for use with 1/2" operating tools
- insertion depth: 40 mm, total length: 57.5 mm

Item	Ø	Drive	Description	Art. No.
Special Socket Spanner	49 mm	1/2"	U-shape for ball end journals: 18.5 x 34 mm	4541

Pin Punch, clamp bolt Audi / VW aluminium twin steering knuckles

- to be operated with air hammer
- extra long shaft with center ball on tip
- After separating the hexagon screw head, the clamp bolt is driven out of the axle housing. The high impact rate combined with powerful impacts breaks up corrosion and allows rust remover to enter.

Item	Description	Round Shank	Art. No.
Pin Punch, clamp bolt	blade length 115 mm, ø 6.2 mm	ø 10 mm	8751

accessory

Item	Art. No.
Air Hammer, quick release coupler, round shaft ø 10.2 mm	8810

Pin Punch, clamp bolt Audi / VW steel twin steering knuckles, 3 pcs.

- to be operated with air hammer
- after removing the nut, the guide sleeve is used to lead the pin punch
- includes extension bolt
- easy disassembly through vibration effect

Item	Round Shank	pcs	Art. No.
Pin Punch, clamp bolt	ø 10 mm	3	8750

accessory

Item	Art. No.
Air Hammer, quick release coupler, round shaft ø 10.2 mm	8810

15

Hose Clamp Pliers

- for sidewise working when assembling hose clamps "Oetiker"
- for hard to reach areas, specially steering gear boots and hoses
- for e.g. Audi / VW, Renault, Vauxhall, Ford etc.

Item	Description	Art. No.
Hose Clamp Pliers	for sidewise working	4739

Steering Wheel Puller, Audi / VW

- for separating the adapter sleeve from steering column
- prevents damage to sleeve
- required e.g. when repairing the steering column switch
- e.g. for Golf II / III / IV, Jetta, Passat, Polo, Vento from '88

Item	Description	Art. No.
Steering Wheel Puller	with 8 clamp pieces	4582

Accelerator and Brake Pedal Depressor

- convenient tool for one-man operations
- for depressing the brake pedal, e.g. wheel alignment jobs, checking brake lights or trailor brakes
- for depressing the accelerator, e.g. setting the engine speed or measuring omissions
- smoothly adjustable, quick release function

Item	Length	Art. No.
Accelerator and Brake Pedal Depressor	825 mm	3804

Suspension and Wheels

Coil Spring Compressor, for McPherson struts, 5 pcs.

- TÜV/GS approved
- for quick and professional disassembly and assembly
- with safety pin to protect against overload
- includes 2 pairs of jaws (80-145 mm / 145-195 mm)

Item	max. load	Spread	pcs	Art. No.
Coil Spring Compressor, for McPherson struts	1500 kg	65 - 364 mm	5	48000

accessory

Item	Art. No.
Safety Pin, for coil spring compressor Nr. 48000 and 48005	*48006*

Coil Spring Compressor, for McPherson struts, 6 pcs.

- with protection sleeve for bench vice
- TÜV/GS approved
- for quick and professional disassembly and assembly
- with safety pin to protect against overload
- includes 2 pairs of jaws (80-120 mm / 80-200 mm) with PU inserts to protect spring coating
- with wire to secure springs

Item	max. load	Spread	pcs	Art. No.
Coil Spring Compressor, for McPherson struts	1800 kg	80 - 364 mm	6	48005

accessory

Item	Art. No.
Safety Pin, for coil spring compressor Nr. 48000 and 48005	*48006*

Strut Vice, accessory for coil spring compressors No. 48000 and 48005

- secure and non-deforming fixation through round clamp system
- 2 adjustment steps for strut ø 47 - 60 mm
- increases spread, because only 1 jaw is required
- ideal accessory for coil spring compressors No. 48000 and 48005

Item	Art. No.
Strut Vice	48007

Jaw, 80-120 mm

- to be applied with coil spring compressors 48000 and 48005
- Alfa Romeo 147, 156, GT
- Audi A4
- Daewoo Matiz
- Mazda 121, 6, MX5

!!! please always order in pairs !!!

Item	Size	Art. No.
Jaw	80 - 120 mm	48010

15

Jaw

- to be applied with coil spring compressors 48000 and 48005
- BMW E39 / E46/ E60 / E61 / E90 / E91 / E92 / E93
- Mercedes E-class (W211)
- Renault Megane II
- Toyota Avensis

Item	Art. No.
Jaw	48011

Jaw

- to be applied with coil spring compressors 48000 and 48005
- Mercedes C-class (up to 2013)

Item	Art. No.
Jaw	48012

Jaw

- to be applied with coil spring compressors 48000 and 48005
- Mercedes C-class W204 / W205
- Mercedes E-class W207

Item	Art. No.
Jaw	48013

Jaw

- to be applied with coil spring compressors 48000 and 48005
- counter clock type for left-turning springs
- Chrysler Voyager
- Honda Civic, CR-V, Prelude
- Nissan Qashqai
- Renault Kadjar, Megane IV

Please always order in pairs!

Item	Art. No.
Jaw	48014

Jaw

- to be applied with coil spring compressors 48000 and 48005
- BMW 1-series F20/F21 (from 2011), 2-series F22/F23 (from 2013) and F45/F46 (from 2014), 3-series F30/F31/F34 (from 2012), 4-series F32/F33/F36 (from 2014)
- MINI One, Cooper, Cooper S, models F55/F56 (from 2013)

Item	Art. No.
Jaw	48016

Residual Pressure Valve Insert, for disassembly and assembly, 1/4"

- for disassembly/assembly of the residual pressure valve on the air suspension damper
- for use with:
  Audi A6 / S6 / RS6 / A7 / Q7 / A8 / S8
  VW Phaeton, Touareg
  Porsche Cayenne
  Mercedes W220
  Bentley

Item	Drive	OEM Comparison No.	Art. No.
Residual Pressure Valve Insert	1/4"	T101581	4816

Shock Absorber Assembly Tool

- for shock absorbers with rebound springs
- enables a complete pullout of the piston rod
- specialist clamp with protective coating for locking piston rod in pullout position
- 2 sets of clamping screws (long and short) for various ø of piston rod
- universal application, e.g. for BMW / Fiat / Ford / Mercedes / Nissan / Peugeot / Toyota
- content:
  specialist telescopic pull unit
  t-handle to operate pull unit
  threaded intermediate bearing for receiving pull unit
  specialist clamp, V-shape, with protective plastic inserts
  2 pcs. clamping screw set for specialist clamp, long pattern
  2 pcs. clamping screw set for specialist clamp, short pattern
  t-handle hexagon ball-head key, 6 mm

Item	Art. No.
Shock Absorber Assembly Tool	4815

Shock Absorber Tool Set, 24 pcs.

- for working on shock absorbers, suspension struts and coil springs
- for counterholding the piston rod during disassembly / assembly of struts
- 13 specialist profiles for counterholding with practical plug-in system and extensions
- suitable for Porsche, VW, Opel, Mercedes-Benz, BMW, etc.

Content	Profile	Size	Drive	Length	Art. No.
Go-Through Socket	hexagon	16 mm	1/2" / 21 mm hex	78 mm	*4819A-16*
Go-Through Socket	hexagon	17 mm	1/2" / 21 mm hex	78 mm	*4819A-17*
Go-Through Socket	hexagon	18 mm	1/2" / 21 mm hex	78 mm	*4819A-18*
Go-Through Socket	hexagon	19 mm	1/2" / 21 mm hex	78 mm	*4819A-19*
Go-Through Socket	hexagon	21 mm	1/2" / 21 mm hex	78 mm	*4819A-21*
Go-Through Socket	hexagon	22 mm	1/2" / 21 mm hex	78 mm	*4819A-22*
Go-Through Socket	hexagon	24 mm	1/2" / 21 mm hex	78 mm	*4819A-24*
Bit Socket	hexagon	7 mm	8 mm hex	38 mm	*4819A-S7*
Bit Socket	hexagon	8 mm	8 mm hex	38 mm	*4819A-S8*
Bit Socket	hexagon	9 mm	8 mm hex	38 mm	*4819A-S9*
Bit Socket	hexagon	10 mm	8 mm hex	40 mm	*4819A-S10*
Socket	specialist	5x8 mm	8 mm hex	38 mm	*4819A-5x8*
Socket	specialist	6x8 mm	8 mm hex	38 mm	*4819A-6x8*
Socket	specialist	11x8 mm	8 mm hex	40 mm	*4819A-11x8*
Bit	Hexagon	5 mm	8 mm hex	36 mm	*4819A-H5*
Bit	Hexagon	6 mm	8 mm hex	36 mm	*4819A-H6*
Bit	Hexagon	7 mm	8 mm hex	36 mm	*4819A-H7*
Bit	Hexagon	8 mm	8 mm hex	36 mm	*4819A-H8*
Bit	spline	10 mm	8 mm hex	36 mm	*4819A-M10*
Bit	spline	T50	8 mm hex	36 mm	*4819A-T50*

Item	pcs	Art. No.
Shock Absorber Tool Set	24	4819A

Steering Knuckle Spreader

- for spreading the aluminium steering knuckle when replacing shock absorbers
- with 4 cones and 2 spreading chisels
- avoids damage to aluminium through impact effects
- suitable for e.g. Audi, BMW, Citroen, Ford, Seat, Skoda, Peugeot, Renault, VW, various Japanese vehicles

Item	Art. No.
Steering Knuckle Spreader	4587

15

Miscellaneous Tools	
Reversible Ratchet, 21 mm intake	*4819A-KN*
Go-Through Extension Bar, 21 mm hex, 120 mm long	*4819A-120*
Bit Holder Extension Bar, 1/2", 8 mm hex, 95 mm long	*4819A-95*
Bit Holder Extension Bar, 1/2", 8 mm hex, 190 mm long	*4819A-190*

Wheel Hub Spreader

- compact wheel hub spreading tool designed to hold open the wheel hub to facilitate the assembly and disassembly of suspension struts
- enables the damagefree removal of seized spring/damper units without damaging the cast or aluminium steering knuckle housing
- suitable for a wide range of vehicle manufacturers
- can be used for larger and split wheel hub housings
- double ended expansion opening for straight or curved lugs
- prevents slipping for safe application
- external hex drive 10 mm
- max. spread 10 mm

Item	Drive	Expansion Spread	Art. No.
Wheel Hub Spreader	10 mm hex	max. 10 mm	4827

Strut Nut and Clamp Expander Socket Set, 8 pcs.

- for loosening and tightening strut bearing connections and for expanding the suspension strut knuckle on wheel hubs when disassembling struts
- 6 strut nut sockets with 2 pins, e.g. for Audi, VW, Skoda, Seat, Mercedes, Austin
- 2 strut pry sockets, for spreading the suspension strut knuckle on wheel hubs when disassembling struts, e.g. for BMW, Citroen, Ford, Peugeot, Renault, Audi/VW, various Japanese cars

Content	Ø	Drive	Pin Width	Expansion Spread	Art. No.
Strut Nut Socket	10.5 mm	22 mm hex	3.5 mm		*4828-01*
Strut Nut Socket	12.5 mm	15 mm hex	3.0 mm		*4828-02*
Strut Nut Socket	12.5 mm	22 mm hex	3.5 mm		*4828-03*
Strut Nut Socket	14.0 mm	22 mm hex	2.5 mm		*4828-04*
Strut Nut Socket	14.5 mm	22 mm hex	5.0 mm		*4828-05*
Strut Nut Socket	15.0 mm	21 mm hex	5.0 mm		*4828-06*
Strut Pry Socket		1/2"	5 mm	7 mm	4818-7
Strut Pry Socket		1/2"	5.5 mm	8.2 mm	4818-8

Item	pcs	Art. No.
Strut Nut and Clamp Expander Socket Set	8	4828

Strut Nut Socket Set, 4 pcs.

- for shock absorber retaining nuts on Audi / VW models and Mercedes W203

Content	Ø	Drive	Pin Width	Art. No.
Strut Nut Socket	10.5 mm	22 mm hex	3.5 mm	*4828-01*
Strut Nut Socket	12.5 mm	22 mm hex	3.5 mm	*4828-03*
Strut Nut Socket	14.0 mm	22 mm hex	2.5 mm	*4828-04*
Strut Nut Socket	14.5 mm	22 mm hex	5.0 mm	*4828-05*

Item	Drive	pcs	Art. No.
Strut Nut Socket Set	22 mm hex	4	4820

Strut Pry Sockets

- pin made from S2-chrome-vanadium-steel
- for spreading the suspension strut knuckle on wheel hubs when disassembling struts
- universal tool for many manufacturers, e.g. BMW, Citroen, Ford, Peugeot, Renault, Audi / VW, various Japanese cars

Item	Drive	Expansion Spread	Pin Width	Art. No.
Strut Pry Socket	1/2"	7 mm	5 mm	4818-7
Strut Pry Socket	1/2"	8.2 mm	5.5 mm	4818-8

Strut Pin Wrench, Mercedes

- for operating the shock absorber screw connection on Mercedes W211 rear axle (E-class T-model)
- rubber-coated blade prevents damage

Item	Profile	Art. No.
Strut Pin Wrench	3 pins	4821

Wheel Camber Gauge

- to determine the camber/track angle before removing the suspension struts
- identical angle can be applied for reassembly

Item	Description	Art. No.
Wheel Camber Gauge	with magnet	5340

Jack Adapter Set, Tesla, 4 pcs.

- absolutely necessary for lifting Tesla Model 3, S, X and Y
- suitable for rubber pads with 120-140 mm outer diameter
- made of high-strength and dimensionally stable special plastic POM (polyoxymethylene) to prevent damage due to bouncing
- circumferential gripping groove for easier removal after lowering
- suitable for use on lifting platforms and jacks

Without using these adapters, there is a risk of damaging the battery box or even the battery. The adapters are inserted into the locating hole under the vehicle and aligned over the existing rubber plate from the support arm of the lifting platform or jack. Now the car can be lifted.

Item	pcs	Art. No.
Jack Adapter Set	4	9404

Jack Adapter Set, Tesla, 4-pcs.

- absolutely necessary for lifting Tesla Model Y from model year 2023 onwards from German production (chassis number starts with XP7)
- made of high-strength and dimensionally stable special plastic POM (polyoxymethylene) to prevent damage due to bouncing
- circumferential gripping groove for easier removal after lowering
- suitable for use on lifting platforms and jacks

Without using these adapters, there is a risk of damaging the battery box or even the battery. The adapters are inserted into the locating hole under the vehicle and aligned over the existing rubber plate from the support arm of the lifting platform or jack. Now the car can be lifted.

Item	pcs	Art. No.
Jack Adapter Set	4	9405

Torsion Bar, 1/2", 75 Nm

- enables fast pre-tightening of wheel bolts with max. 75 Nm
- mandatory for wheel assembly on vehicles with composite brake disc, used e.g. for BMW, Mercedes
- for use with a 1/2" impact wrench

Due to the design of composite brake discs, the wheel bolts must be tightened in accordance with the manufacturer's specifications when fitting the wheels. This describes the correct tightening of the wheel bolts in 3 steps:
1. apply crosswise up to max. 20 Nm with unloaded wheel
2. crosswise tightening to max. 75 Nm with unloaded wheel
3. tighten crosswise to nominal torque according to manufacturer's specification with loaded wheel

Non-observance can lead to distortion of the entire brake disc. This often results in brake vibrations or running irregularities and the expensive brake discs must be replaced.

Item	Torque max.	Drive	Length	Art. No.
Torsion Bar	75 Nm	1/2"	200 mm	8190-75

Wheel Nut Sockets, 5 pcs., 1/2", 85 mm, CrMo, hex 15-22 mm

- internal and external nylon coat prevents damage to wheels, nuts and car paint

Content	Profile	Size	Drive	Length	Art. No.
Wheel Nut Socket	hexagon	15 mm	1/2"	85 mm	1003-15
Wheel Nut Socket	hexagon	17 mm	1/2"	85 mm	1003-17
Wheel Nut Socket	hexagon	19 mm	1/2"	85 mm	1003-19
Wheel Nut Socket	hexagon	21 mm	1/2"	85 mm	1003-21
Wheel Nut Socket	hexagon	22 mm	1/2"	85 mm	1003-22

Item	Profile	Size	Drive	Length	pcs	Art. No.
Wheel Nut Sockets	hexagon	15, 17, 19, 21, 22 mm	1/2"	85 mm	5	1003-5

Wheel Nut Sockets, 3 pcs., 1/2", 85 mm, CrMo, hex 17-21 mm

- internal and external nylon coat prevents damage to wheels, nuts and car paint

Content	Profile	Size	Drive	Length	Art. No.
Wheel Nut Socket	hexagon	17 mm	1/2"	85 mm	1003-17
Wheel Nut Socket	hexagon	19 mm	1/2"	85 mm	1003-19
Wheel Nut Socket	hexagon	21 mm	1/2"	85 mm	1003-21

Item	Profile	Size	Drive	Length	pcs	Art. No.
Wheel Nut Sockets	hexagon	17, 19, 21 mm	1/2"	85 mm	3	1003

Wheel Nut Sockets

- internal and external nylon coat prevents damage to wheels, nuts and car paint

Item	Profile	Size	Drive	Length	Art. No.
Wheel Nut Socket	hexagon	14 mm	1/2"	85 mm	1003-14
Wheel Nut Socket	hexagon	15 mm	1/2"	85 mm	1003-15
Wheel Nut Socket	hexagon	17 mm	1/2"	85 mm	1003-17
Wheel Nut Socket	hexagon	19 mm	1/2"	85 mm	1003-19
Wheel Nut Socket	hexagon	21 mm	1/2"	85 mm	1003-21
Wheel Nut Socket	hexagon	22 mm	1/2"	85 mm	1003-22

Wheel Nut Sockets, 3 pcs., 1/2", 85 mm, CrMo, hex 17-21 mm

- internal and external nylon coat prevents damage to wheels, nuts and car paint

Content	Profile	Size	Drive	Length	Art. No.
Wheel Nut Socket	hexagon	17 mm	1/2"	85 mm	5117
Wheel Nut Socket	hexagon	19 mm	1/2"	85 mm	5119
Wheel Nut Socket	hexagon	21 mm	1/2"	85 mm	5121

Item	Profile	Size	Drive	Length	pcs	Art. No.
Wheel Nut Socket Set	hexagon	17, 19, 21 mm	1/2"	85 mm	3	5113

Wheel Nut Sockets

- internal and external nylon coat prevents damage to wheels, nuts and car paint

Item	Profile	Size	Drive	Length	Art. No.
Wheel Nut Socket	hexagon	17 mm	1/2"	85 mm	5117
Wheel Nut Socket	hexagon	19 mm	1/2"	85 mm	5119
Wheel Nut Socket	hexagon	21 mm	1/2"	85 mm	5121

Wheel Nut Sockets, extra-long, 3 pcs.

- internal and external nylon coat prevents damage to wheels, nuts and car paint
- 150 mm total length, of which 120 mm working length with continuous plastic protection
- ideal for use on alloy rims with drop center or very low lying wheel bolts
- when tightening e.g. with a torque wrench no extension is necessary
- with bore and groove for locking pin and O-ring

Content	Profile	Size	Drive	Description	Length	Art. No.
Wheel Nut Socket	hexagon	17 mm	1/2"	extra long	150 mm	5204-17
Wheel Nut Socket	hexagon	19 mm	1/2"	extra long	150 mm	5204-19
Wheel Nut Socket	hexagon	21 mm	1/2"	extra long	150 mm	5204-21

Item	Profile	Size	Drive	pcs	Art. No.
Wheel Nut Sockets, extra-long	hexagon	17, 19, 21 mm	1/2"	3	5204

Wheel Nut Socket, extra long

- internal and external nylon coat prevents damage to wheels, nuts and car paint
- 150 mm total length, of which 120 mm working length with continuous plastic protection
- ideal for use on alloy rims with drop center or very low lying wheel bolts
- when tightening e.g. with a torque wrench no extension is necessary
- with bore and groove for locking pin and O-ring

Item	Profile	Size	Drive	Description	Length	Art. No.
Wheel Nut Socket	hexagon	17 mm	1/2"	extra long	150 mm	5204-17
Wheel Nut Socket	hexagon	19 mm	1/2"	extra long	150 mm	5204-19
Wheel Nut Socket	hexagon	21 mm	1/2"	extra long	150 mm	5204-21

Wheel Nut Socket Set, magnetic, 3 pcs.

- internal and external nylon coat prevents damage to wheels, nuts and car paint
- spring-loaded - releases nut from socket
- with magnet - secures nut from falling down

Content	Profile	Size	Drive	Description	Length	Art. No.
Wheel Nut Socket	hexagon	17 mm	1/2"	magnetic	85 mm	5203-17
Wheel Nut Socket	hexagon	19 mm	1/2"	magnetic	85 mm	5203-19
Wheel Nut Socket	hexagon	21 mm	1/2"	magnetic	85 mm	5203-21

Item	Profile	Size	Drive	Length	pcs	Art. No.
Wheel Nut Socket Set	hexagon	17, 19, 21 mm	1/2"	85 mm	3	5203

Wheel Nut Socket, Mercedes

- specialist profile for new wheel bolts on Mercedes alloy wheels
- external nylon coat prevents damage to wheels and car paint
- for Mercedes S-, M-, GL- and GLK cars,
  types C216, W164, W166, W221, X166 and X204

Item	Profile	Size	Drive	Length	Art. No.
Wheel Nut Socket	specialist hexagon	17 mm	1/2"	85 mm	4783

Wheel Nut Socket, Kia / Hyundai

- specialist profile for new wheel bolts on Hyundai and Kia alloy wheels
- external nylon coat prevents damage to wheels and car paint
- for Hyundai i30, Tucson and Kia models

Item	Profile	Size	Drive	Length	Art. No.
Wheel Nut Socket	specialist hexagon	21 mm	1/2"	85 mm	4784

Special Wheel Nut Socket, 1/2", hex 18.5 + 19.5 mm

- for loosening wheel bolts with damaged or missing chrome caps
- 18.5 mm for wheel nuts size 19 with missing cap
- 19.5 mm for wheel nuts size 19 with damaged cap

Item	Size	Drive	Art. No.
Special Wheel Nut Socket	18.5 + 19.5 mm	1/2"	4785-19

Special Wheel Nut Socket, 1/2", hex 20.5 + 21.5 mm

- for loosening wheel bolts with damaged or missing chrome caps
- 20.5 mm for wheel nuts size 21 with missing cap
- 21.5 mm for wheel nuts size 21 with damaged cap

Item	Size	Drive	Art. No.
Special Wheel Nut Socket	20.5 + 21.5 mm	1/2"	4785-21

Wheel Guide Pin Set, 8 pcs.

- for easy and damage-free wheel mounting
- ideal for vehicles with composite brake discs
- for threads M12x1.25, M12x1.5, M14x1.25 and M14x1.5
- with knurling for better grip when screwing and unscrewing

Item	pcs	Art. No.
Wheel Guide Pin Set	8	8280

Rim Lock Removal Socket Set, 23 pcs., Audi / VW

- for disassembly and assembly of original manufacturer rim locks
- suitable for models before manufacturing year 2010
- incl. 17 mm wheel nut socket with protective coating, 1/2" sq. drive

Content		4/15	5271-0415	52/7	5271-5207	59/14	5271-5914
Specialist		5/16	5271-0516	53/8	5271-5308	60/15	5271-6015
17 mm hex		6/17	5271-0617	54/9	5271-5409	61/16	5271-6116
0/10	5271-0010	7/19	5271-0719	55/10	5271-5510	62/17	5271-6217
1/11	5271-0111	8/20	5271-0820	56/11	5271-5611		
2/13	5271-0213	9/21	5271-0921	57/12	5271-5712		
3/14	5271-0314	51/6	5271-5106	58/13	5271-5813		

Item	OEM Comparison No.	pcs	Art. No.
Rim Lock Removal Socket Set	T10101A / T40004	23	5271

Rim Lock Removal Socket Set, 20 pcs., Seat / VW

- for disassembly and assembly of original manufacturer rim locks
- suitable for vehicles built between 2006 - 2012, e.g.
  VW: Beetle, EOS, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran, UP
  Seat: Alhambra, Altea, Arosa, Cordoba, Exeo, Ibiza, Inca, Leon, Toledo

Content		#524	5274-524	#530	5274-530	#536	5274-536
Specialist		#525	5274-525	#531	5274-531	#537	5274-537
17 mm hex		#526	5274-526	#532	5274-532	#538	5274-538
#521	5274-521	#527	5274-527	#533	5274-533	#539	5274-539
#522	5274-522	#528	5274-528	#534	5274-534	#540	5274-540
#523	5274-523	#529	5274-529	#535	5274-535		

Item	OEM Comparison No.	pcs	Art. No.
Rim Lock Removal Socket Set	T10313	20	5274

Rim Lock Removal Socket Set, 20 pcs., VW / Porsche

- for disassembly and assembly of original manufacturer rim locks
- suitable for: Porsche, VW, e.g Touareg (built 2003-2013)

Content		55/19	5270-5519	63/17	5270-6317
Specialist		56/20	5270-5620	64/18	5270-6418
19 mm hex		57/21	5270-5721	65/19	5270-6519
50/14	5270-5014	58/22	5270-5822	66/20	5270-6620
51/15	5270-5115	59/23	5270-5923	67/21	5270-6721
52/16	5270-5216	60/14	5270-6014	68/22	5270-6822
53/17	5270-5317	61/15	5270-6115	69/23	5270-6923
54/18	5270-5418	62/16	5270-6216		

Item	OEM Comparison No.	pcs	Art. No.
Rim Lock Removal Socket Set	T10190	20	5270

Rim Lock Removal Socket Set, 20 pcs., Audi

- for disassembly and assembly of original manufacturer rim locks

Content		F (806)	5273-F806	O (814)	5273-O814
Specialist		G (807)	5273-G807	R (815)	5273-R815
17 mm hex		H (808)	5273-H808	S (816)	5273-S816
A (801)	5273-A801	J (809)	5273-J809	T (817)	5273-T817
B (802)	5273-B802	L (810)	5273-L810	V (818)	5273-V818
C (803)	5273-C803	M (811)	5273-M811	W (819)	5273-W819
D (804)	5273-D804	N (812)	5273-N812	X (820)	5273-X820
E (805)	5273-E805	P (813)	5273-P813		

Item	OEM Comparison No.	pcs	Art. No.
Rim Lock Removal Socket Set	T40073	20	5273

Rim Lock Removal Socket Set, 21 pcs., BMW / Mini

- for disassembly and assembly of original manufacturer rim locks
- incl. 17 mm wheel nut socket with protective coating, 1/2" sq. drive

Content		16/10	5272-1610	33/17	5272-3317
Specialist		17/7	5272-1707	34/18	5272-3418
17 mm hex		18/13	5272-1813	35/19	5272-3519
11/15	5272-1115	19/8	5272-1908	36/20	5272-3620
12/14	5272-1214	20/9	5272-2009	37/21	5272-3721
13/16	5272-1316	30/13	5272-3013	38/22	5272-3822
14/12	5272-1412	31/15	5272-3115	40/23	5272-4023
15/11	5272-1511	32/16	5272-3216		

Item	OEM Comparison No.	pcs	Art. No.
Rim Lock Removal Socket Set	361300 / 361335	21	5272

Rim Lock Removal Socket Set, 20 pcs., BMW

- for disassembly and assembly of original manufacturer rim locks

Content		#46	5275-46	#54	5275-54
Specialist		#47	5275-47	#55	5275-55
17 mm hex		#48	5275-48	#56	5275-56
#41	5275-41	#49	5275-49	#57	5275-57
#42	5275-42	#50	5275-50	#58	5275-58
#43	5275-43	#51	5275-51	#59	5275-59
#44	5275-44	#52	5275-52	#60	5275-60
#45	5275-45	#53	5275-53		

Item	OEM Comparison No.	pcs	Art. No.
Rim Lock Removal Socket Set	362010	20	5275

Rim Lock Removal Socket Set, 12 pcs., Mercedes

- for disassembly and assembly of original manufacturer rim locks

Content	Profile	Size	Drive	Art. No.
Rim Lock Socket Insert	Specialist	5A		*5276-5A*
Rim Lock Socket Insert	Specialist	5C		*5276-5C*
Rim Lock Socket Insert	Specialist	5D		*5276-5D*
Rim Lock Socket Insert	Specialist	5E		*5276-5E*
Rim Lock Socket Insert	Specialist	5F		*5276-5F*
Rim Lock Socket Insert	Specialist	5G		*5276-5G*
Rim Lock Socket Insert	Specialist	5L		*5276-5L*
Rim Lock Socket Insert	Specialist	5N		*5276-5N*
Rim Lock Socket Insert	Specialist	5P		*5276-5P*
Rim Lock Socket Insert	Specialist	5X		*5276-5X*
Specialist Adapter			1/2" / 21 mm hex	*5276-01*
Removal Punch				*5276-02*

Item	pcs	Art. No.
Rim Lock Removal Socket Set	12	5276

Specialist Sockets, conical left-hand thread, 7 pcs.

- for loosening rim locks and damaged nuts and bolts

Content	Profile	Size	Drive	Length	Art. No.
Left Thread Socket	Conical Left-Hand Thread	17 mm	1/2"	38 mm	*2107-17*
Left Thread Socket	Conical Left-Hand Thread	18.5 mm	1/2"	38 mm	*2107-18*
Left Thread Socket	Conical Left-Hand Thread	20 mm	1/2"	38 mm	*2107-20*
Left Thread Socket	Conical Left-Hand Thread	21.5 mm	1/2"	38 mm	*2107-21*
Left Thread Socket	Conical Left-Hand Thread	23 mm	1/2"	38 mm	*2107-23*
Left Thread Socket	Conical Left-Hand Thread	24.5 mm	1/2"	38 mm	*2107-24*
Left Thread Socket	Conical Left-Hand Thread	26 mm	1/2"	38 mm	*2107-26*

Item	Profile	Size	Drive	pcs	Art. No.
Specialist Sockets	Conical Left-Hand Thread	17-26 mm	1/2"	7	2107

Rim Lock Removal Tool Set, 10 pcs.

- also suitable for "round" profiles
- use mandrel to fix bush to rim lock, then disassemble with ratchet or four way wheel nut wrench
- extra thin conical bushes

Content	Profile	Size	Drive	Length	Art. No.
Rim Lock Bush	conical	16.42 - 18.30 mm	19 mm hex	60 mm	*2104-A1*
Rim Lock Bush	conical	17.62 - 19.50 mm	19 mm hex	60 mm	*2104-A2*
Rim Lock Bush	conical	18.52 - 20.40 mm	19 mm hex	60 mm	*2104-A3*
Rim Lock Bush	conical	19.72 - 21.60 mm	19 mm hex	60 mm	*2104-A4*
Rim Lock Bush	conical	20.62 - 22.50 mm	19 mm hex	60 mm	*2104-A5*
Rim Lock Bush	conical	21.72 - 23.60 mm	22 mm hex	60 mm	*2104-A6*
Rim Lock Bush	conical	22.66 - 24.54 mm	22 mm hex	60 mm	*2104-A7*
Rim Lock Bush	conical	23.64 - 25.52 mm	22 mm hex	60 mm	*2104-A8*
Assembly Mandrel				180 mm	*2104-DO*
Removal Punch				180 mm	*2104-TR*

Item	pcs	Art. No.
Rim Lock Removal Tool Set	10	2104

Rim Lock Removal Tool Set, 10 pcs., 16.4-25.5 mm

- also suitable for „round“ profiles
- extra thin conical bushes
- use mandrel to fix bush to rim lock, then disassemble with ratchet or four way wheel nut wrench
- 19 mm hex: 18, 19, 20, 21, 22 mm
- 22 mm hex: 23, 24, 25 mm

Item	Size	pcs	Art. No.
Rim Lock Removal Tool Set	18-25 mm	10	72104

Specialist Sockets, twist profile, 4 pcs.

- high-alloy chrome-molybdenum-steel, impact quality
- for loosening damaged nuts and bolts
- aggressive twist profile

Content	Profile	Size	Drive	Length	Art. No.
Wheel Nut Socket	Twist Profile	17 mm	1/2"	150 mm	*2108-17*
Wheel Nut Socket	Twist Profile	19 mm	1/2"	150 mm	*2108-19*
Wheel Nut Socket	Twist Profile	21 mm	1/2"	150 mm	*2108-21*
Removal Punch				160 mm	*2108-TR*

Item	Size	Drive	Length	pcs	Art. No.
Specialist Sockets	17, 19, 21 mm	1/2"	150 mm	4	2108-1

15

Wheel Nut Cap Remover

- for easy removal of nut caps without damaging the rim
- solid grip jaw made from spring steel
- t-handle for convenient and safe operation
- handle stores up to 6 caps
- suitable for max. size 22 mm

Item	Art. No.
Wheel Nut Cap Remover	8250

Wheel Bolt Thread Chaser Set, 4 pcs.

- for cleaning and rethreading wheel stud threads
- for external threads: M12x1.25, M12x1.5, M14x1.5
- no alignment difficulties: the thread chaser can first be attached to any undamaged section of the thread, and then work its way through to the damaged thread

Content	Drive	Description	Size	Art. No.
Specialist Socket	1/2" / 24 mm hex	specialist profile 2 pins		*5355-01*
Thread Chaser	specialist profile 2 pins	with clamping ring	M12x1.25	*5355-02*
Thread Chaser	specialist profile 2 pins	with clamping ring	M12x1.5	*5355-03*
Thread Chaser	specialist profile 2 pins	with clamping ring	M14x1.5	*5355-04*

Item	pcs	Art. No.
Thread Chaser	4	5355

accessory

Item	Art. No.
Spare O-Rings, 10 pcs., for No. 5355	5355-REP

Thread Repair Kit for Wheel Nuts and Bolts, 12 pcs.

- for cleaning and rethreading
- for threads M12 x 1.25 / M12 x 1.5 / M14 x 1.5
- tap and die tools in titanium coated tungsten steel
- includes tap and die holding tools
- includes screwpitch gauge
- with 3/8" (10 mm) square drive
- rust or damaged threads can lead to wrong torque values, which can cause loose wheels

Content	Size	Drive	pcs	Art. No.
Hand Tap	M12 x 1.25			*5356-B1*
Hand Tap	M12 x 1.5			*5356-B2*
Hand Tap	M14 x 1.5			*5356-B3*
Die	M12 x 1.25			*5356-S1*
Die	M12 x 1.5			*5356-S2*
Die	M14 x 1.5			*5356-S3*
Tap Holder	7 mm	3/8"		*5356-A1*
Tap Holder	9 mm	3/8"		*5356-A2*
Die Holder with Extension		3/8"	2	*5356-V1*
Screwpitch Gauge	0.5-1.75 mm		8	*5356-GL*
Hex Key	3 mm			*5356-WKS*

Item	pcs	Art. No.
Thread Repair Kit for Wheel Nuts and Bolts	12	5356

Metal Wheel Hub Grinder, ø 90x150 mm, 2 pcs.

- for cleaning the wheel hub and brake disc
- replaceable grinding wheel with high abrasion and wear resistance for efficient removal of corrosion and dirt
- corrosion on the contact surface between hub and wheel can cause wrong torque measurements and lead to loose wheels
- enlarged inner ø (90 mm), thus also suitable for modern cars with large wheel centering
- for cars and vans with hub-ø up to 150 mm
- solid grinding cup made from special aluminium-metal compound
- with 1/2" sq. drive for operation with impact wrench; alternatively use adapter set No. 4703 to operate with drill machine
- spare grinding wheels available seperately under item code No. 5358-1

Item	Ø	pcs	Art. No.
Metal Wheel Hub Grinder	90x150 mm	2	5358

Grinding Wheel, for wheel hub grinder No. 5358, ø 90x150 mm

Item	Ø	Art. No.
Grinding Wheel	90x150 mm	5358-1

Grinding Disc Kit, 2 pcs.

- with 1/2" sq. drive, to be used with impact wrench
- ideal for cleaning or rust removal

Content	Ø	Art. No.
Grinding Disc	65 mm	*8790-01*
Grinding Disc	105 mm	*8790-02*

Item	Ø	pcs	Art. No.
Grinding Disc Kit	65 + 105 mm	2	8790

Wheel Hub Cleaning Tool Set, 7 pcs.

- for cleaning the wheel hub on vehicles with wheel studs
- suitable for studs up to size M16
- corrosion on the contact surface between hub and wheel cause wrong torque measurements and lead to loose wheels
- cleaning discs with quick change fittings
- 3x cleaning disc ø 40 mm, for M12
  2x cleaning disc ø 47 mm, for M14 and M16

Content	Description	Quantity	Art. No.
Adapter	for cordless or power drill		*5354-AD*
Handle	1/2" intake		*5354-GS*
Cleaning Discs	ø 40 mm, for M12 bolts	3 pcs.	5357-40
Cleaning Discs	ø 47 mm, for M14 + M16 bolts	2 pcs.	5357-47

Item	pcs	Art. No.
Wheel Hub Cleaning Tool Set	7	5357

Replacement Kits, for wheel hub cleaner No. 5357

Item	Description	Quantity	Art. No.
Cleaning Discs	ø 40 mm, for M12 bolts	3 pcs.	5357-40
Cleaning Discs	ø 47 mm, for M14 + M16 bolts	2 pcs.	5357-47

Wheel Stud Cleaning Tool Set, 8 pcs.

- for quick and easy cleaning of wheel studs and bolts
- suitable for cars and commercial vehicles
- brushes with quick change fittings

Content	Description	Size	Art. No.
Adapter	for cordless or power drill		*5354-AD*
Handle	1/2" intake		*5354-GS*
Brush	with quick change fitting	12 mm (7/16")	5354-12
Brush	with quick change fitting	13 mm (1/2")	5354-13
Brush	with quick change fitting	14 mm (9/16")	5354-14
Brush	with quick change fitting	16 mm (5/8")	5354-16
Brush	with quick change fitting	22 mm (7/8")	5354-22
Brush	with quick change fitting	28 mm (1.1/8")	5354-28

Item	pcs	Art. No.
Wheel Stud Cleaning Tool Set	8	5354

Dead Blow Bumping Hammer

- steel balls in hammer head prevent blow-back and ensure stronger impact
- ideal for loosening stuck rims when changing wheels
- also suitable for bodywork applications, e.g. dent removal
- fully rubber-coated
- handle made from fiberglass

Item	Head-Ø	Length	Head Weight	Art. No.
Dead Blow Hammer	60 mm	380 mm	1300 g	8240

Dead Blow Bumping Hammer

- steel balls in hammer head prevent blow-back and ensure stronger impact
- ideal for loosening stuck rims when changing wheels
- handle made from fiberglass with rubber-coated grip

Item	Head-Ø	Length	Head Weight	Art. No.
Dead Blow Hammer	70 mm	490 mm	2100 g	8241

Dead Blow Bumping Hammer

- steel balls in hammer head prevent blow-back and ensure stronger impact
- ideal for loosening stuck rims when changing wheels
- heavy duty model, specially suitable for trucks and utility vehicles
- handle made from fiberglass with rubber-coated grip

Item	Head-Ø	Length	Head Weight	Art. No.
Dead Blow Hammer	105 mm	900 mm	5600 g	8242

Tire Deflator Caps, 4 pcs.

- ideal for assembling RDKS / TPMS sensors
- simply screw cap on valve to depress valve and deflate
- avoids removing the valve
- 4 colours with position marking for wheels / sensors, to ensure that the wheel will be assembled to same position as before
- reprogramming of sensors is not necessary in many cases

Item	pcs	Art. No.
Tire Deflator Caps	4	8204

Tire Pressure Monitoring System Service Kit, 16 pcs.

- for mounting and dismounting of the special TPMS sensors and tire valves
- for the common systems from Siemens VDO, Beru, Schrader, etc.
- torque spanner (2-10 Nm) for union nuts, with automatic click release and quick adjust and lock system, including test certificate
- preset torque wrench (1.4 Nm) for the screws of most systems

Content	Drive	Measuring Range	Length	Profile	Size	Art. No.
Torque Wrench	1/4"	2 - 10 Nm	165 mm			8210
Torque Screwdriver	1/4" hex	1.4 Nm				8214
T-Handle	1/4"		70 mm			8200-TG
Socket Bit	1/4"		37 mm	TX-Star T	T20	14033-20
Socket	1/4"		deep	hexagon	11 mm	21299-11
Socket	1/4"		deep	hexagon	12 mm	21299-12
Extension Bar	1/4"		100 mm			21105
Counter Holder			50x15 mm		2 mm	*8200-WK2*
Counter Holder			55x20 mm		3 mm	*8200-WK3*
Torque Valve Screw Tool						8245
Torque Valve Screw Tool						8225

Item	Art. No.
Tire Pressure Monitoring System Service Kit	8201

Tire Valve Cutter

- for quick removal of the old valve
- cuts off on inner side of rim
- avoids scratches (e.g. when using a knife)
- blade width: 18 mm
- max. jaw width: 30 mm

Item	Length	Application	Art. No.
Tire Valve Cutter	230 mm	for rubber valves	8220

Tire Valve Assembly Tool

- for bent valves
- ideal for hard to reach valves e.g. on scooter and motorcycle wheels
- adjustable supporting point to suit various rim widths
- protective coating on supporting point to avoid scratches to the rim
- for safe and powerful pulling out and installing of the valve

Item	Length	Application	Art. No.
Tire Valve Assembly Tool	230 mm	for steel valves	8219

Tire Valve Assembly Tool Kit, 3 pcs.

- for replacing rubber valves without removing the tire
- ideal for quick replacement of damaged or leaking rubber valves on cars, vans and motorcycles without removing the tire from the rim

Content	Length	Art. No.
Extraction Hook	180 mm	*8203-01*
Valve Insertion Tool, with internal thread		*8203-02*
Pilot Sleeve	115 mm	*8203-03*

Item	Application	pcs	Art. No.
Tire Valve Assembly Tool Kit	for rubber valves	3	8203

Tire Valve Mounting Tool, 2 in 1

- for pulling “Snap-In” valves into the rim valve hole for tubeless tires
- integrated valve core fitting tool at rear end
- suitable for all rims (cars / vans / caravans)
- synthetic material, prevents damage to rims
- 6 notches, for secure hold on rims
- lockable head, for easy fixing of rubber valves

Item	Length	Application	Art. No.
Tire Valve Mounting Tool	290 mm	for rubber valves	8207

Tire Valve Mounting Tool

- for pulling “Snap-In” valves into the rim valve hole for tubeless tires
- suitable for all rims (cars / vans / caravans)
- solid metal body with composite surface, prevents damage to rims
- 5 notches, for secure hold on rims
- lockable head, for easy fixing of rubber valves
- slightly offset shape, for optimal leverage when fitting valves

Item	Length	Application	Art. No.
Tire Valve Mounting Tool	325 mm	for rubber valves	8208

Pilot Screw Tool, for steel tire valves

- pilot pin simplifies assembly and avoid slipping of
- suitable for torque wrench operation

Item	Drive	Application	Art. No.
Pilot Screw Tool	1/4"	for steel valves	8216

Torque Valve Screw Tool

- prevents overtightening when assembling valve inserts
- audible click when torque is reached

Item	Torque max.	Application	Art. No.
Torque Valve Screw Tool	limited to 0.25 Nm	for rubber valves	8225
Torque Valve Screw Tool	limited to 0.45 Nm	for steel valves	8245

8225

8245

Rim Protector, 2 pcs.

- for motorcycle and car wheels
- protects against scratches and other damage to the rim
- ideal when used in combination with tire lever
- with cord, for pulling out the protector when it slips between rim and wheel

Item	pcs	Art. No.
Rim Protector	2	8233

Tire Bead Suppression Tool

- made from special nylon material - protects against scratches on wheels
- to be hanged on outer rim, protects against slipping of
- holds down tire bead during assembly
- avoids damage to the carcass

Item	Description	Art. No.
Tire Bead Suppression Tool	manual	8230
Tire Bead Suppression Tool	spring-loaded	8231

8230

8231

Wheel Balancing Weight Pliers, plastic protection

- for loosening glued balancing weights
- extra narrow gripping profile, ideal also for motorcycle weights
- plastic protection on hammer head and gripping jaws, to avoid damages and paint damage when applying or removing adhesive weights on alloy rims
- 2-stage adjustable, stage 1: 4-16 mm, stage 2: 12-26 mm, for narrow and wide adhesive weights
- self-opening handles with spring and rubber coating

Item	Length	Art. No.
Wheel Balancing Weight Pliers	225 mm	8294

Wheel Balancing Weight Pliers, chrome plated

- with hammer fin for striking clamping weights
- with cutting edge for cutting adhesive weights to size
- with hook and gripping jaw for removing clamping weights
- insulated handles

Item	Length	Art. No.
Wheel Balancing Weight Pliers	240 mm	294

3706-19

3706-22

Wheel Weight Removers

- suitable for wide range of applications, e.g. removing wheel weight adhesives on alloy wheels or trim strips without damaging car paint
- handle with striking cap for light hitting

Item	Length	Width	Art. No.
Chisel, plastic	275 mm	19 mm	3706-19
Chisel, plastic	275 mm	22 mm	3706-22

Rubber Eraser Pad, ø 90 mm

- for removing remainders on painted surfaces, e.g. stickers, adhesives, colour and balancing weights on wheels
- incl. adapter with 6 mm mandrel, 18 mm long (total 40 mm)
- pad-ø 90 mm x 15 mm thickness
- thread 5/16" x 24, 13 mm long

Item	Speed	Ø	Art. No.
Rubber Eraser Pad	4000 rpm	90 mm	8235

Tire Lever with Protector, 535 mm

- with exchangeable plastic protector, avoids damage to wheels
- protective plastic attachment prevents scratching and slipping off
- rounded edges avoid damage to the carcass
- ideal length for powerful leverage, specially useful for "runflat" and low profile tires

Item	Length	Art. No.
Tire Lever with Protector	535 mm	8263

accessory

Item	Art. No.
Spare Protector for No. 8263	8263-01

Tire Lever with Protector

- with exchangeable plastic protector, avoids damage to wheels
- manufactured from specialist steel, hardened and chrome plated

Item	Length	Art. No.
Tire Lever with Protector	380 mm	263-380
Tire Lever with Protector	500 mm	263-500

accessory

Item	Art. No.
Spare Protector for No. 263-380	263-3REP
Spare Protector for No. 263-500	263-5REP

Tire Lever Set, 4 pcs.

- manufactured from specialist steel, hardened and chrome plated

Item	Length	Art. No.
Tyre Lever Set	250, 400, 500, 600 mm	8265

Tire Lever

- manufactured from specialist steel, hardened and chrome plated

Item	Length	Art. No.
Tire Lever	250 mm	265-250
Tire Lever	400 mm	265-400
Tire Lever	500 mm	265-500
Tire Lever	600 mm	265-600
Tire Lever	750 mm	265-750

Tire Levers, specialist shape for trucks

- for trucks, agricultural and construction machines
- specially rounded edges for material-preserving application

Item	Description	Length	Art. No.
Tire Lever	heavy duty, weight 1.25 kg	600 mm	8266
Tire Lever	heavy duty, weight 1.55 kg	750 mm	8267

Tire Pressure Gauge

- easy to use
- solid metal body

Item	Measuring Range	Art. No.
Tire Pressure Gauge	0 - 4.15 bar / 0 - 60 psi	3751

Digital Tire Depth Gauge

- resolution: 0.01 mm
- adjustable 0-position

Item	Measuring Range	Art. No.
Digital Tire Depth Gauge	0 - 25 mm	1363

Brake Pipe and Hydraulics

Hydraulic Flaring Tool Set

- lightweight and compact construction, to be applied directly on the vehicle
- suitable for steel, aluminium, copper and brass pipes
- also suitable for coated pipes
- for convex and double flaring according to DIN and SAE
- clamping jaws: 4.75 mm (3/16") - 5.00 mm - 6.00 mm

Content	Description	pcs	Art. No.
Hydraulik Spindle	with clamp connection		*4902-SP*
Main Body	with handle		*4902-GR*
Clamping Plate	with thread		*4902-VS*
Clamping Jaw	for ø 4.75 mm and 3/16"	2	*4902-SB4*
Clamping Jaw	for ø 5.00 mm	2	*4902-SB5*
Clamping Jaw	for ø 6.00 mm	2	*4902-SB6*
Pipe Cutter	3 - 16 mm / 1/8" - 5/8"		*4902-RA*
Thrust Tip	4.75 / 5 mm SAE, OP1		*4902-DS1*
Thrust Tip	6 mm SAE, OP1		*4902-DS2*
Thrust Tip	4.75 / 5 / 6 mm SAE 90°, OP2		*4902-DS3*
Thrust Tip	4.75 / 5 mm DIN		*4902-DS4*
Thrust Tip	6 mm DIN		*4902-DS5*

Item	for Ø	Art. No.
Hydraulic Flaring Tool Set	4.75 mm (3/16") / 5 mm / 6 mm	4902

Brake Pipe Flaring Tool, 2-in-1

- small and compact construction, to be applied directly under the vehicle, also in hard-to-reach areas
- for convex and double flaring according to DIN and SAE
- for brake pipes with ø 4.75 mm (3/16")

Content	Art. No.
Handle, with clamping unit	*4903-GS*
Press Bolt	*4903-DI*
Press Bolt	*4903-SA*
Set Screw	*4903-AS*
Special Punch Grease	*4903-FE*

Item	for Ø	Art. No.
Brake Pipe Flaring Tool Set	4.75 mm (3/16")	4903

Brake Pipe Flaring Tool Set, DIN F, ø 4.75 mm (3/16")

- for flaring according to DIN F
- incl. brake pipe ratchet cutter, brake service spanner 10x11 mm and bending tool for ø 3 mm, 4.75 mm (3/16") and 6 mm pipes
- small and compact construction, to be applied directly under the vehicle, also in hard-to-reach areas

Content	Art. No.
Brake Pipe Ratchet Cutter	5737
Pipe Bender	5734
Brake Service Spanner, offset, 10x11 mm	4085
Brake Pipe Flaring Tool, for ø 4.75 mm	4904

Item	for Ø	Art. No.
Brake Pipe Flaring Tool Set	4.75 mm (3/16")	4906

Brake Pipe Flaring Tool, for ø 4.75 mm

- small and compact construction, to be applied directly under the vehicle, also in hard-to-reach areas
- for brake pipes with ø 4.75 mm and ø 3/16"
- for hydraulic brake systems and clutch actuation on motor vehicles
- suitable for steel, copper and aluminum pipes

Content	Art. No.
Handle, with clamping unit	*4903-GS*
Press Bolt	*4903-DI*
Set Screw	*4903-AS*
Special Punch Grease	*4903-FE*

Item	for Ø	Art. No.
Brake Pipe Flaring Tool	4.75 mm (3/16")	4904

Brake Pipe Flaring Tool Set

- suitable for use in a vice
- time-saving revolver head for selecting flaring punch
- suitable for steel, aluminium, copper and brass pipes
- also suitable for coated pipes
- for convex and double flaring according to DIN and SAE
- clamping jaws: 4.75 mm (3/16") - 5.00 mm - 6.00 mm

Content	Description	pcs	Art. No.
Main Body	with intake		*4901-GR*
Clamping Jaw	for ø 4.75 mm (3/16")	2	*4901-SB4*
Clamping Jaw	for ø 5.00 mm	2	*4901-SB5*
Clamping Jaw	for ø 6.00 mm	2	*4901-SB6*
Operating Lever	length 300 mm		*4901-HE*
Block	OP0		*4901-DS0*
Thrust Tip	4.75 / 5 mm DIN, OP1		*4901-DS1*
Thrust Tip	4.75 SAE, OP1		*4901-DS2*
Thrust Tip	5 mm SAE, OP1		*4901-DS3*
Thrust Tip	6 mm SAE, OP1		*4901-DS4*
Thrust Tip	4.75 / 5 / 6 mm SAE, OP2		*4901-DS5*
Thrust Tip	6 mm DIN, OP1		*4901-DS6*

Item	for Ø	Art. No.
Professional Flaring Tool Set	4.75 mm (3/16") / 5 mm / 6 mm	4901

16

Brake Pipe Ratchet Cutter

- for quick and easy cutting of brake pipes with ø 4.75 mm
- compact design and ratchet function for use in narrow spaces
- automatic adjustment of blade contact pressure enables cutting without tiresome adjustment of clamping screw
- spare blade available under No. 5737-01

Item	for Ø	Art. No.
Ratchet Pipe Cutter	4.75 mm	5737

accessory

Item	Art. No.
Spare Blade for No. 5737, for brake pipes ø 4.75 mm	5737-01

Brake Line Scraper

- for coated brake lines, e.g. at VW and BMW
- for scraping the coating on brake lines, e.g. for flanging work
- for brake lines with ø 3-16 mm

Item	for Ø	Art. No.
Brake Line Scraper	3 - 16 mm	4905

Deburring Tool for Brake Pipes, for inner-ø 3-12 mm

- ideal for deburring brake lines, e.g. after shortening
- suitable for aluminium, copper, brass and soft steel pipes
- for pipes with inner-ø 3-12 mm

Item	for Ø	Art. No.
Deburring Tool for Brake Pipes	3 - 12 mm	4907

Brake Pipe Straightening and Bending Tool, for pipe-ø 4.75 + 6.35 mm

- for straightening and bending brake lines, fuel lines, etc.
- compact design allows use directly on the vehicle
- clamping screw with T-handle for precise bends of up to 90°
- bending does not cause any change in pipe diameter
- ideal for straightening of reels
- suitable for aluminium, copper, brass and mild steel pipes

Item	for Ø	Art. No.
Brake Pipe Bending Tool	4.75 + 6.35 mm	5732

Brake Pipe Bending Pliers

- for 4.75 and 6 mm brake pipes
- for steel, copper and plastic coated brake pipes
- bending does not cause any change in pipe diameter

Item	Length	Art. No.
Brake Pipe Bending Pliers	235 mm	5735

Pipe Bending Pliers

- also suitable for brake pipes
- for sheet metal, copper, steel and aluminium pipes
- bending up tp 90°
- suitable for pipe-ø: 4.75 mm (3/16"), 6 mm (1/4"), 8 mm (5/16"), 10 mm (3/8")

Item	Length	Art. No.
Pipe Bending Pliers	260 mm	5736

Pipe Bender

- for brake and fuel pipes compact design, suitable for application directly on the vehicle
- smallest bending radius approx. 15 mm
- for bending up to 90°
- suitable for aluminium, copper, brass and soft steel pipes
- for ø: 3 mm (1/8"), 4.75 mm (3/16"), 6 mm (1/4")

Item	Length	Art. No.
Pipe Bender	140 mm	5734

Brake Line Holding Clamp Set For Bending Work, 4 pcs.

- enables the exact reproduction of an old brake line
- for parallel fixing of old and new brake lines during the bending process
- the clamping does not change the diameter of the break line
- suitable for brake lines with ø 4.75 mm, made of copper, steel and plastic-coated

Item	Art. No.
Brake Line Holding Clamp Set	5733

Brake Service Spanners

- reinforced jaw for high durability
- offset

Item	Size	Art. No.
Brake Service Spanner	10x11 mm	4085

ideal for runded nuts on brake lines

Item	Art. No.
Special Jaw Grip Plier, 100 mm	4797

Check Valve

- for manual 1-man operation
- for manual brake bleeding on hydraulic brake systems
- reliably prevents air intrusion into brake system
- for cars, vans and motorcycles
- also suitable for hydraulic clutch systems

Item	Art. No.
Check Valve	4661

Brake Bleeding Wrench Set, 6 pcs.

- for bleeding brake systems without removing the wheels
- incl. 1200 mm bleeder hose with check valve for bleeding without 2nd person
- for universal bleeder nipples with size 7, 8, 9, 10, 11 mm
- also suitable for bleeding hydraulic clutches

Content	Size	Colour	Length	Art. No.
Brake Bleeding Wrench	7 mm	green		*4625-01*
Brake Bleeding Wrench	8 mm	blue		*4625-02*
Brake Bleeding Wrench	9 mm	purple		*4625-03*
Brake Bleeding Wrench	10 mm	yellow		*4625-04*
Brake Bleeding Wrench	11 mm	red		*4625-05*
Hose with check valve			1200 mm	*4625-06*

Item	Size	pcs	Art. No.
Brake Bleeding Wrench Set	7, 8, 9, 10, 11 mm	6	34625

Brake Bleeding Wrench Set, 12 pcs.

- avoids wheel disassembly for brake bleeding
- e.g. on Audi / VW / Seat / Skoda
- go-through sockets, allows hose to pass through, e.g. when using a vacuum pump (Condor item No. 3550)
- includes hose, inner ø 4 mm
- also suitable for bleeding hydraulic clutches

Content	Length	Profile	Size	Art. No.
Specialist Reversible Ratchet	150 mm			*4623-01*
Brake Bleeding Socket	29 mm	hexagon	7 mm	*4624-05*
Brake Bleeding Socket	75 mm	hexagon	7 mm	*4624-06*
Brake Bleeding Socket	29 mm	hexagon	8 mm	*4624-07*
Brake Bleeding Socket	75 mm	hexagon	8 mm	*4624-08*
Brake Bleeding Socket	29 mm	hexagon	9 mm	*4624-01*
Brake Bleeding Socket	75 mm	hexagon	9 mm	*4624-02*
Brake Bleeding Socket	29 mm	hexagon	10 mm	*4624-03*
Brake Bleeding Socket	75 mm	hexagon	10 mm	*4624-04*
Brake Bleeding Socket	29 mm	hexagon	11 mm	*4623-02*
Brake Bleeding Socket	75 mm	hexagon	11 mm	*4623-03*

Item	Profile	Drive	pcs	Art. No.
Brake Bleeding Wrench Set	hexagon	14 mm hex	12	34624

Brake Bleeding Wrench Set, 3 pcs.

- avoids wheel disassembly for brake bleeding
- e.g. on Audi / VW / Seat / Skoda
- go-through sockets, allows hose to pass through, e.g. when using a vacuum pump (Condor item No. 3550)
- also suitable for bleeding hydraulic clutches

Content	Length	Profile	Size	Art. No.
Specialist Reversible Ratchet	150 mm			*4623-01*
Brake Bleeding Socket	29 mm	hexagon	11 mm	*4623-02*
Brake Bleeding Socket	75 mm	hexagon	11 mm	*4623-03*

Item	Profile	Size	Drive	pcs	Art. No.
Brake Bleeding Wrench Set	hexagon	11 mm	14 mm hex	3	4623

Brake Bleeding Tool, electric, 220V

- for bleeding and changing fluids in brake and clutch systems
- bleeding pressure adjustable from 0.6 - 3.0 bar
- for one-man operation
- automatic switch-off when the container is empty
- incl. brake bleeding adapter Euro 20, hose connection 90° offset
- for containers up to 5 liters

Item	Capacity	Art. No.
Brake Bleeding Tool	5.0 L	9700A

Brake Bleeding Tool

- coupler suitable for adapters from many manufacturers (adapters not included in delivery)
- for brake bleeding and changing fluids in hydraulic brake and clutch systems
- suitable for vehicles with ABS
- regulator for adjustable bleeding pressure
- for one-man operation
- for all popular brake fluids
- incl. waste bottle and pipette to empty expansion tank

Content	Capacity	Art. No.
Brake Bleeding Tool	5 L	*3553-01*
Pipette		*3553-02*
Brake Bleeding Waste Bottle	1 L	3554

Item	Art. No.
Brake Bleeding Tool	3553

Brake Bleeding Tool

- for bleeding hydraulic brakes and clutches
- also for changing brake fluid
- with refill set for brake fluid reservoir
- working pressure 5-12 bar
- incl. air nipple 1/4"

Content	Capacity	Art. No.
Brake Bleeding Tool	2 L	*3552-01*
Refill Set	0.75 L	*3552-02*

Item	Art. No.
Brake Bleeding Tool	3552

Brake Bleeding Tool

- enables 1-person bleeding of hydraulic brake systems
- incl. drain hose and rubber pipe for bleeder nipple
- also suitable for bleeding fuel lines after filter changes, hydraulic clutch and steering systems
- capacity: 1 L
- operating pressuer: 5-8 bar
- connection thread: 1/4″

Item	Capacity	Art. No.
Brake Bleeding Tool	1 L	3551

Brake Bleeding Waste Bottle

- for collecting brake fluid when using permanent pressure brake bleeding tools
- for collecting brake fluid when bleeding manually in 2-man operation

Item	Capacity	Art. No.
Brake Bleeding Waste Bottle	1 L	3554

Universal Brake Bleeding Adapter, adjustable, ø 28-70 mm

- new reinforced steel version
- connection suitable for the most common German systems
- brake bleeder cover suitable for all vehicles with a collar on the filler cap of the brake fluid reservoir
- for container openings up to ø 70 mm
- with offset hose connection for confined spaces

Item	for Ø	Art. No.
Universal Brake Bleeding Adapter	28-70 mm	4632

Universal Brake Bleeding Adapter

- connectors suitable for popular German systems
- conical thrust pieces for air-tight sealing of reservoir
- including assembly set:
  2 screw hooks
  1 tensioning chain
  1 assembly piece with tensioning screw

Item	Ø	Description	Art. No.
Universal Brake Bleeding Adapter Set	29 - 85.5 mm	2 thrust pieces	4630-3

Brake Bleeding Adapter Set, 8 pcs.

- connectors suitable for popular German systems
- supplied in plastic case
- 8 adapters for the most popular applications:
  Adapter, ø 42 mm (No. 6)
  Adapter, for Opel, ø 43.5 mm
  Filler Cap, for Opel, ø 43.5 mm, for closing the second filler openings
  Adapter, for Nissan, ø 49.5 mm
  Adapter, for Honda, ø 56 mm (No. 9)
  Adapter, for BMW, Audi ø 44.2 mm (No. 4+5)
  Adapter, with bayonet lock, ø 34.5 mm (No. 10)

Item	pcs	Art. No.
Brake Bleeding Adapter Set	8	4629

Adapter Set No. 4629 + Universal Adapter No. 4630-3

- supplied in plastic case

Content	Art. No.
Brake Bleeding Adapter Set, 8 pcs.	4629
Universal Brake Bleeding Adapter, conical, ø 29-85.5 mm	4630-3

Item	Art. No.
Adapter Set No. 4629 + Universal Adapter No. 4630-3	4629-3

Brake Bleeding Adapter Euro 20

- connector suitable for popular German systems
- cup made from aluminium, suitable for all vehicles with Euro 20 screw connection on fluid reservoir
- with offset, swivel hose connection
- specially suitable for vehicles with confined spaces, e.g. VW Sharan, Ford Galaxy, various Japanese cars

Item	Description	Art. No.
Brake Bleeding Adapter Euro 20	offset	4631

Brake Bleeding Adapter, Tesla Model 3

- connector suitable for popular German systems
- with angled hose connection, 360° rotatable
- solid design, made from aluminium

Item	Description	Art. No.
Brake Bleeding Adapter	offset	4633

Brake Bleeding Adapter, Tesla Model S + X

- connector suitable for popular German systems
- with angled hose connection, 360° rotatable
- solid design, made from aluminium

Item	Description	Art. No.
Brake Bleeding Adapter	offset	4634

Electronic Brake Fluid Tester

- measures water content, for DOT3, DOT4 und DOT5.1 brake fluid
- automatic shut-off
- handling:
  pull of the cap and switch on the device (green LED lights up)
  dip both test tips in break fluid
  notice the test result on LED´s

Item	Description	Art. No.
Electronic Brake Fluid Tester	incl. 1.5 V battery (AAA)	5040

Disk and Drum Brakes

Brake Caliper Wind Back Tool Kit, 53 pcs.

- universal assortment with 39 adapters, suitable for almost all popular vehicles
- for left and right turning brake pistons
- mainly suitable for rear axle disk brake systems
- includes stepped adapter plate for front axles
- 1 right-turning spindle
- 1 left-turning spindle
- 2 hexagon keys 6 + 7 mm
- 2 pin punches for retaining pin on brake pad spring (Mercedes and Opel)
- 2 open thrust plates for badly worn out brake pads and limited working space
- 4 specialist sockets

Content		adapter 8	*359-A10*	adapter N	*359-A29*
Spindles		adapter 9	*359-A11*	adapter P	*359-A30*
right-turn	359-SPR	adapter A	*359-A12*	adapter P1	*359-A31*
left-turn	359-SPL	adapter A1	*359-A13*	adapter R	*359-A32*
Reaction Plates		adapter B	*359-A14*	adapter R1	*359-A33*
plate 1	*359-DP1*	adapter B1	*359-A15*	adapter S	*359-A34*
plate 0-Disc	*359-DP2*	adapter B2	*359-A16*	adapter Z (A)	*359-A35*
plate 11	*359-DP3*	adapter C	*359-A17*	adapter T	*359-A36*
plate 12	*359-DP4*	adapter D	*359-A18*	adapter V	*359-A37*
Wind Back Adapters		adapter E	*359-A19*	adapter Q	*359-A38*
adapter G1	359-A1	adapter F	*359-A20*	adapter VW	359-A39
adapter IV	359-A2	adapter F1	*359-A21*	Parallel Pin Punch	
adapter 0	*359-A3*	adapter F2	*359-A22*	3.0 mm	*359-PS3*
adapter 2	*359-A4*	adapter G (F)	*359-A23*	5.5 mm	*359-PS5*
adapter 3	*359-A5*	adapter J	*359-A24*	Hex Keys	
adapter 4	*359-A6*	adapter K	*359-A25*	6 mm	*359-SK6*
adapter 5	*359-A7*	adapter K1	*359-A26*	7 mm	*359-SK7*
adapter 6	*359-A8*	adapter K2	*359-A27*		
adapter 7	*359-A9*	adapter M	*359-A28*		

Item	pcs	Art. No.
Brake Caliper Wind Back Tool Kit	53	37453

Specialist Sockets, 1/2"	
Socket, pentagon 10 mm	*4773-01*
Socket, pentagon 14 mm	*4773-02*
Socket, pentagon 19 mm	*4773-03*
Socket, tx-star T45	*4773-04*

Brake Caliper Wind Back Tool Kit, 41 pcs.

- universal assortment
- for rewinding brake pistons
- 2 hexagon keys 6 + 7 mm
- 2 pin punches for retaining pin on brake pad spring (Mercedes and Opel)
- 2 open thrust plates for badly worn out brake pads and limited working space

Content		adapter 6	*359-A8*	adapter N	*359-A29*
Spindles		adapter 7	*359-A9*	adapter P	*359-A30*
right-turn	359-SPR	adapter 8	*359-A10*	adapter R	*359-A32*
left-turn	359-SPL	adapter 9	*359-A11*	adapter S	*359-A34*
Reaction Plates		adapter A	*359-A12*	adapter Z (A)	*359-A35*
plate 1	*359-DP1*	adapter B	*359-A14*	adapter T	*359-A36*
plate 0-Disc	*359-DP2*	adapter C	*359-A17*	adapter V	*359-A37*
plate 11	*359-DP3*	adapter D	*359-A18*	adapter Q	*359-A38*
plate 12	*359-DP4*	adapter E	*359-A19*	Parallel Pin Punch	
Wind Back Adapters		adapter F	*359-A20*	3.0 mm	*359-PS3*
adapter IV	359-A2	adapter G (F)	*359-A23*	5.5 mm	*359-PS5*
adapter 0	*359-A3*	adapter J	*359-A24*	Hex Keys	
adapter 2	*359-A4*	adapter K	*359-A25*	6 mm	*359-SK6*
adapter 3	*359-A5*	adapter K1	*359-A26*	7 mm	*359-SK7*
adapter 4	*359-A6*	adapter K2	*359-A27*		
adapter 5	*359-A7*	adapter M	*359-A28*		

Item	pcs	Art. No.
Brake Caliper Wind Back Tool Kit	41	359-37

Brake Caliper Wind Back Tool Kit, 18 pcs.

- suitable for many cars
- for rewinding brake pistons

Content		adapter 2	*359-A4*	adapter E	*359-A19*
Spindles		adapter 3	*359-A5*	adapter G (F)	*359-A23*
right-turn	359-SPR	adapter 4	*359-A6*	adapter K	*359-A25*
left-turn	359-SPL	adapter 5	*359-A7*	adapter M	*359-A28*
Reaction Plates		adapter 6	*359-A8*	adapter N	*359-A29*
plate 1	*359-DP1*	adapter 7	*359-A9*	adapter Z (A)	*359-A35*
Wind Back Adapters		adapter 8	*359-A10*		
adapter 0	*359-A3*	adapter 9	*359-A11*		

Item	pcs	Art. No.
Brake Caliper Wind Back Tool Kit	18	359-18

Brake Caliper Wind Back Tool Kit, 13 pcs.

- suitable for many cars
- for rewinding brake pistons

Content		adapter 0	*359-A3*	adapter 7	*359-A9*
Spindles		adapter 2	*359-A4*	adapter 8	*359-A10*
right-turn	359-SPR	adapter 3	*359-A5*	adapter 9	*359-A11*
Reaction Plates		adapter 4	*359-A6*	adapter G (F)	*359-A23*
plate 1	*359-DP1*	adapter 5	*359-A7*	adapter Z (A)	*359-A35*
Wind Back Adapters		adapter 6	*359-A8*		

Item	pcs	Art. No.
Brake Caliper Wind Back Tool Kit	13	359-13

Pneumatic Brake Caliper Wind Back Tool Kit, 48 pcs.

- universal assortment with 39 adapters, suitable for almost all popular vehicles
- for left and right turning brake pistons
- mainly suitable for rear axle disk brake systems
- includes stepped adapter plate for front axles
- 1 pneumatic spindle, specially designed for narrow spaces: adapter intake can be pushed back fully into reaction plate
- 2 hexagon keys 6 + 7 mm
- 2 pin punches for retaining pin on brake pad spring (Mercedes and Opel)
- 4 specialist sockets

Content		adapter B2	*359-A16*	adapter R1	*359-A33*
Wind Back Adapters		adapter C	*359-A17*	adapter S	*359-A34*
adapter G1	359-A1	adapter D	*359-A18*	adapter Z (A)	*359-A35*
adapter IV	359-A2	adapter E	*359-A19*	adapter T	*359-A36*
adapter 0	*359-A3*	adapter F	*359-A20*	adapter V	*359-A37*
adapter 2	*359-A4*	adapter F1	*359-A21*	adapter Q	*359-A38*
adapter 3	*359-A5*	adapter F2	*359-A22*	adapter VW	359-A39
adapter 4	*359-A6*	adapter G (F)	*359-A23*	Parallel Pin Punch	
adapter 5	*359-A7*	adapter J	*359-A24*	3.0 mm	*359-PS3*
adapter 6	*359-A8*	adapter K	*359-A25*	5.5 mm	*359-PS5*
adapter 7	*359-A9*	adapter K1	*359-A26*	Hex Keys	
adapter 8	*359-A10*	adapter K2	*359-A27*	6 mm	*359-SK6*
adapter 9	*359-A11*	adapter M	*359-A28*	7 mm	*359-SK7*
adapter A	*359-A12*	adapter N	*359-A29*	Spindle	
adapter A1	*359-A13*	adapter P	*359-A30*	pneumatic	4683
adapter B	*359-A14*	adapter P1	*359-A31*		
adapter B1	*359-A15*	adapter R	*359-A32*		

Item	pcs	Art. No.
Pneumatic Brake Caliper Wind Back Tool Kit	48	37448

Specialist Sockets, 1/2"	
Socket, pentagon 10 mm	*4773-01*
Socket, pentagon 14 mm	*4773-02*
Socket, pentagon 19 mm	*4773-03*
Socket, tx-star T45	*4773-04*

Air Brake Caliper Wind Back Tool Kit, 16 pcs.

- suitable for many cars
- for rewinding brake pistons
- pneumatic spindle (No. 4683)

Content		adapter 6	359-A8	adapter M	359-A28
Wind Back Adapters		adapter 7	359-A9	adapter N	359-A29
adapter 0	359-A3	adapter 8	359-A10	adapter Z (A)	359-A35
adapter 2	359-A4	adapter 9	359-A11	Spindle	
adapter 3	359-A5	adapter E	359-A19	pneumatic	4683
adapter 4	359-A6	adapter G (F)	359-A23		
adapter 5	359-A7	adapter K	359-A25		

Item	pcs	Art. No.
Pneumatic Brake Caliper Wind Back Tool Kit	16	4682

Air Brake Caliper Wind Back Tool Kit, 16 pcs.

- suitable for many cars
- for rewinding brake pistons
- with pneumatic spindle (No. 359DLSP)

Content		adapter 6	359-A8	adapter M	359-A28
Wind Back Adapters		adapter 7	359-A9	adapter N	359-A29
adapter 0	359-A3	adapter 8	359-A10	adapter Z (A)	359-A35
adapter 2	359-A4	adapter 9	359-A11	Spindle	
adapter 3	359-A5	adapter E	359-A19	pneumatic	359DLSP
adapter 4	359-A6	adapter G (F)	359-A23		
adapter 5	359-A7	adapter K	359-A25		

Item	pcs	Art. No.
Pneumatic Brake Caliper Wind Back Tool Kit	16	359DL

Spindle for Brake Calipers with Hand-Brake Function

- for brake calipers where the piston is set back by turn and push back movement

Item	Application	Art. No.
Brake Piston Spindle	right-turn	359-SPR
Brake Piston Spindle	left-turn	359-SPL

Pneumatic Brake Caliper Spindle

- for rewinding left- and right-turning brake pistons
- new model: adapter intake can be pushed back fully into reaction plate, allowing application for narrow spaces between brake pads or far wound-out brake pistons
- permanent and continuous force for fast and smooth application
- convenient handle for precise application of force
- 1/4" air inlet

Item	Application	Art. No.
Pneumatic Brake Caliper Spindle	right- and left-turn	4683

Pneumatic Brake Caliper Spindle

- for rewinding left- and right-turning brake pistons
- permanent and continuous force for fast and smooth application
- convenient handle for precise application of force
- 1/4" air inlet

Item	Application	Art. No.
Pneumatic Brake Caliper Spindle	right- and left-turn	359DLSP

Brake Caliper Wind Back Adapters

- extensions to sets 359-13, 359-16, 359-18, 359-37, 359DL

Item	Outer-Ø	Application	Pin-ø	Pins	Art. No.
Brake Caliper Adapter	42 mm	VW Golf V / VI	5 mm	2	359-A1
Brake Caliper Adapter	42 mm	VW Passat from 2009	6 mm	3	359-A2
Brake Caliper Adapter	40 mm	VW, Ford, Renault electric hand-brake	5 mm	3	359-A39

Universal Brake Caliper Wind Back Tool 3-in-1

- specialist spindle for 3 applications:
  for rewinding pistons with right screw thread
  for rewinding pistons with left screw thread
  for retracting pistons without turning function
- universal adapter with pin spread 20-38 mm and spring-loaded pins for application on pistons with 2 or 3 pins
- additional adapter for using other standard adapters, e.g. from sets No. 7453, 37448, 37453 or series 359-..
- includes measurement scale for determining pin spread on brake piston

Item	Description	Art. No.
Brake Caliper Wind Back Tool	universal 3-in-1	4680

Universal Brake Caliper Set Back Tool, with ratchet function

- for winding back brake calipers, e.g. when replacing brake pads
- ratchet mechanism for good power transmission
- avoids changing of adapters and thrust plates

Item	Length	Art. No.
Brake Caliper Set Back Tool	275 mm	4594

Brake Caliper Retraction Tool for Floating Calipers

- for swiftly setting back pistons on floating calipers without handbrake function

Item	Spread	Art. No.
Brake Caliper Retraction Tool for Floating Calipers	16 - 85 mm	4598

Brake Caliper Retraction Tool for Fixed Calipers

- for swiftly setting back pistons on fixed calipers without handbrake function
- rotary mounted jaw

Item	Spread	Art. No.
Brake Caliper Retraction Tool for Fixed Calipers	18 - 75 mm	4599

Brake Caliper Piston Retraction Tool

- for replacing brake pads
- for brake pistons without turning function

Item	Spread	Art. No.
Brake Caliper Piston Retraction Tool	12 - 75 mm	4580

Brake Caliper Piston Retraction Tool

- for rewinding brake pistons

Item	Drive	Description	Art. No.
Brake Caliper Piston Retraction Tool	3/8"	6 different profiles	4596

pin punches

- manufactured in Germany

Item	Ø	Length	Description	Art. No.
Parallel Pin Punch	4 mm	175 mm		4658
Parallel Pin Punch	6 mm	175 mm	offset tip	4659

Specialist 4-Point Brake Caliper File

- diagonal milled, coarse and deep
- for cleaning brake calipers on vehicles with disk brakes
- removes persistent brake dust, dirt and rust
- extra slim design to avoid damage to the CV boot and dust boot on brake piston
- heavy-duty handle with pin hole
- high durability

Item	Length	Art. No.
Specialist 4-Point Brake Caliper File	270 mm	4838

Brake Caliper Wire Brushes

- for cleaning brake calipers
- necessary when replacing brake pads

Item	Length	Application	Brush	Material	Art. No.
Brake Caliper Wire Brush	225 mm	universal	90 x 22 mm	steel wire	404
Brake Caliper Wire Brush	225 mm	specially for aluminium brake calipers	90 x 22 mm	brass wire	405

Pentagon Socket Set for Brake Calipers, 3 pcs.

- chrome-vanadium-steel
- specialist pentagon profiles for assembly work on brake calipers

Content	Profile	Size	Drive	Application	Art. No.
Socket	pentagon	10 mm	1/2"	for Girling brake systems	*4773-01*
Socket	5-point	14 mm	1/2"	for Smart, Opel Astra G, Zafira	*4773-02*
Socket	5-point	19 mm	1/2"	for Citroen, Renault, Peugeot	*4773-03*

Item	Profile	Drive	pcs	Art. No.
Pentagon Socket Set for Brake Calipers	5-point	1/2"	3	4773

Brake Caliper Socket Set, 12 pcs.

- contains common special and standard profiles for loosening and tightening brake caliper screw connections, even with split calipers
- required to change the brake pads and guide pins

Content	Profile	Size	Drive	Length	Material	Art. No.
Socket	hexagon	7 mm	3/8"	65 mm	CR-V S2	5232-01
Socket	hexagon	7 mm	3/8"	92 mm	CR-V S2	5232-02
Socket	hexagon	9 mm	3/8"	50 mm	CR-V S2	5232-03
Socket	hexagon	11 mm	3/8"	100 mm	CR-V S2	5232-04
Socket	hexagon	7 mm	3/8"	36 mm	chrome vanadium steel	5232-05
Socket	hexagon	8 mm	3/8"	24 mm	chrome vanadium steel	5230-8
Socket	hexagon	9 mm	1/4"	20 mm	chrome vanadium steel	5232-06
Socket	specialist 7-point	14 mm	1/2"	50 mm	CR-MO	5232-07
Socket	specialist 10-point	15 mm	3/8"	30 mm	chrome vanadium steel	5232-08
Socket	specialist 10-point	20 mm	1/2"	38 mm	chrome vanadium steel	5232-09
Socket	specialist 7-point	22 mm	1/2"	48 mm	CR-MO	5232-10
Socket	specialist 10-point	11 mm	1/2"	50 mm	CR-MO	5231

Item	Drive	pcs	Art. No.
Brake Caliper Socket Set	1/4+3/8+1/2"	12	5232

Brake Caliper Socket, 1/2", specialist 10-point 11 mm

- for loosening the fixing bolt on 6-piston brake calipers
- required when replacing brake pads
- manufactured from high-quality chrome-molybdenum-steel
- suitable for e.g. Audi Q7, Porsche Cayenne / Cayman / Macan, VW Touareg

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	specialist 10-point	11 mm	1/2"	50 mm	CR-MO	5231

Brake Caliper Socket, 1/2", specialist 7-point 14 mm

- for brake caliper screw connections and guide pins, e.g. on Audi A5, A6, Q5, Q7 (from ´07)

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	specialist 7-point	14 mm	1/2"	50 mm	CR-MO	5232-07

Brake Caliper Socket, 1/2", specialist 10-point 20 mm

- suitable for Audi A8, S6 / Porsche Cayenne

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	specialist 10-point	20 mm	1/2"	38 mm	chrome vanadium steel	5232-09

Brake Caliper Socket, 3/8", specialist 10-point 15 mm

- suitable for Audi Q7, S8 / Porsche Cayenne, Cayman, Macan

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	specialist 10-point	15 mm	3/8"	30 mm	chrome vanadium steel	5232-08

Brake Caliper Socket, 1/2", specialist 7-point 22 mm

- suitable for Audi S5, A4, A5, A6, A7 / Mercedes Benz

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	specialist 7-point	22 mm	1/2"	48 mm	CR-MO	5232-10

Brake Caliper Socket, 3/8", specialist hex 8 mm

- for brake caliper screw connection on rear axle Audi A4/A6/A8/TT

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	hexagon	8 mm	3/8"	24 mm	chrome vanadium steel	5230-8

Brake Caliper Socket, 1/4", specialist hex 9 mm

- for BMW X5 (from ´09), X6 (from ´08) / Mercedes M-Class (W164), R-Class (W251) / VW T5

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	hexagon	9 mm	1/4"	20 mm	chrome vanadium steel	5232-06

Brake Caliper Socket, 3/8", specialist hex 7 mm

- for guide pins and rear brake caliper screw connections, e.g. on Mercedes W204

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	hexagon	7 mm	3/8"	36 mm	chrome vanadium steel	5232-05

Brake Caliper Socket, 3/8", specialist hex 7 mm

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	hexagon	7 mm	3/8"	65 mm	CR-V S2	5232-01

Brake Caliper Socket, 3/8", specialist hex 7 mm

- suitable for VW / Audi / BMW / Ford / Jaguar / Mazda / Mercedes / Porsche / Volvo

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	hexagon	7 mm	3/8"	92 mm	CR-V S2	5232-02

Brake Caliper Socket, 3/8", specialist hex 9 mm

- suitable for VW / Audi / BMW / Ford / Jaguar / Mazda / Mercedes / Porsche / Volvo

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	hexagon	9 mm	3/8"	50 mm	CR-V S2	5232-03

Brake Caliper Socket, 3/8", specialist hex 11 mm

- for guide pins on Ford Edge and Focus
- for brake calliper screw connections Mercedes ML

Item	Profile	Size	Drive	Length	Material	Art. No.
Socket	hexagon	11 mm	3/8"	100 mm	CR-V S2	5232-04

Repair Set for Brake Caliper Guide Pins, M9x1.25

- for damaged inner threads in caliper anchor brackets and wheel bearing housings
- avoids replacement of wheel bearing housings
- avoids removal of struts / wheel bearings
- avoids wheel alignment
- 10x spare guide pins included
- Operation:
  1. Drill into damaged thread with core drill.
  2. Use tap to extend thread to M10x1.25.
  3. Screw spare guide pin into new thread.

Content	Size	Material	Quantity	Art. No.
Twist Drill	8.80 mm	HSS-E cobalt alloyed		*5359-BO*
Spare Bolt for No. 5359	M10x1.25		1 pcs.	5359-BZ
Tap	M10x1.25			*5359-GB*

Item	Size	Art. No.
Repair Set For Brake Caliper Guide Pins	M9x1.25	5359

accessory

Item	Art. No.
Spare Bolt for No. 5359	5359-BZ

Thread Repair Set for Brake Caliper Guide Pins, M9x1.25

- for repairing damaged guide pin threads in the wheel bearing housing
- for Audi / VW, Ford, Opel

Content	Size	Quantity	Art. No.
Drill Template for Ford			*5361-BSF*
Drill Template for Opel			*5361-BSO*
Drill Template for Audi / VW			*5361-BSV*
Core Drill			*5361-AB*
Tap			*5361-GB*
Hex Key			*5361-WS*
Threaded Bushes, stainless steel, copper ring	M9x1.25	10 pcs.	5361-1

Item	Size	Art. No.
Thread Repair Set for Brake Caliper Guide Pins	M9x1.25	5361

Thread Repair Set for Brake Caliper Guide Pins, M12x1.5

- for repairing damaged guide pin threads in the wheel bearing housing
- for Audi / VW cars with large brake system, e.g. Audi A3 8L, Skoda Octavia, Seat Leon, VW Golf IV, VW Bora, VW Passat from 2003, VW Polo

Content	Size	Quantity	Art. No.
Drill Template			*5364-SCH*
Core Drill			*5364-AB*
Tap			*5364-GB*
Pilot Insertion Tool			*5364-EF*
Thrust Bearing			*5364-DS*
Threaded Bushes, stainless steel, copper ring	M12x1.5	10 pcs.	5364-1

Item	Size	Art. No.
Thread Repair Set for Brake Caliper Guide Pins	M12x1.5	5364

Threaded Bushes, stainless steel, copper ring

Item	Size	Quantity	Art. No.
Threaded Bushes, stainless steel, copper ring	M9x1.25	10 pcs.	5361-1
Threaded Bushes, stainless steel, copper ring	M12x1.5	10 pcs.	5364-1

ABS-Reamer Set, 8 pcs.

- for cleaning the receiving bore of ABS sensors
- When removing the sensor residues of corrosion, dirt and sensor will remain in the receiving bore. Sometimes sensors must be drilled out when they are seized up or torn off. For some models from Audi/VW the sensor must be drilled out due to construction-related reasons. Before installing the new sensor, the receiving bore must be cleaned perfectly to ensure precise fitting of the new sensor. Otherwise new sensors will be damaged when trying to press them into the bore. Furthermore, it could lead to technical disturbance and wrong data measurement of the ABS-system.
  The exact positioning of the new sensor is therefore crucial to guarantee correct measurements of the ABS-system.
  This set comes with a fine-toothed stubby ratchet with a flexible head, to allow for maximum flexibility when operating in narrow spaces. The ratchet only turns in right direction, because left-turning will damage the reamer.

Content	Drive	Description	Art. No.
Reamer	1/4"	ø 10 mm, 29.2 mm long (total length 150 mm) – for VW and Opel	*5315-10x25*
Reamer	1/4"	ø 11 mm, 23.5 mm long (total length 84 mm) – for Audi / VW	*5315-11x23*
Reamer	1/4"	ø 14 mm, 32.2 mm long - for BMW	*5315-14x32*
Reamer	1/4"	ø 15 mm, 23.2 mm long - for Mercedes A-series, Ford, Mazda	*5315-15x23*
Reamer	1/4"	ø 18 mm, 23.2 mm long - for Audi / VW, BMW	*5315-18x23*
Reamer	1/4"	ø 18 mm, 34.2 mm long - for Audi / VW, trucks	*5315-18x34*
Twist Drill		ø 10 mm, complies with DIN (for No. 5315-10x25)	*5315-BO*
Specialist Swivel Ratchet	1/4"	swivel head, only right-turn	*5315-KN*

Item	pcs	Art. No.
Reamer Set	8	5315

Brake Spring Pliers

- chrome-vanadium-steel, nickel plated

Item	Length	Art. No.
Brake Spring Pliers	220 mm	295-220

Brake Spring Pliers

- for riveted and glued brake pads
- for releasing and restoring the springs
- with rotary crown

Item	Length	Art. No.
Brake Spring Pliers	335 mm	5740

Handbrake Cable Spring Pliers

- nickel plated, hardened jaw and joint
- for assembly and disassembly of handbrake cables

Item	Length	Art. No.
Handbrake Cable Spring Pliers	215 mm	296A

Assembly Hook for Brake Springs

- for disassembly and assembly of springs on brakes, headlights etc.
- e.g. extension springs on hand brake shoe on Mercedes-Benz with disc brakes at rear, VW Crafter (from 2006) and LT (from 1997)

Item	Length	Art. No.
Assembly Hook for Brake Springs	155 mm	1589

Brake Spring Wrench

Item	Ø	Length	Art. No.
Brake Spring Wrench	16 - 22 mm	180 mm	4597

Honing Tools

5320

5321

- for maintaining and cleaning cylinders
- solid construction
- with flexible shaft

Item	Drive	Spread	Arms	Art. No.
Brake Cylinder Hone	1/4"	18 - 63 mm	2	5320
Brake Cylinder / Cylinder Sleeve Hone	1/4"	32 - 90 mm	3	5321

accessory

Item	Art. No.
Stone Set, for hone No. 5320	5325
Stone Set, for hone No. 5321	5326

Brake Disc Thickness Gauge

- for quick and easy measuring of the brake disc thickness
- measurement does not require wheel removal

Item	Measuring Range	Art. No.
Brake Disc Thickness Gauge	0 - 35 mm	1376

Brake Disc Caliper

- for measuring wear on brake discs
- with locking screw

Item	Measuring Range	Nonius	Length	Art. No.
Brake Disc Caliper	60 mm	1/10 mm	160 mm	1375

16

Brake Disk Measuring Tool Set, 4 pcs.

- for measuring radial and axial offsets of brake disks, wheel hubs etc.
- transverse arm, for fixing dial gauge for exact measuring results
- 3-point clamp for safe mounting to shock absorber
- micrometer to determine wear limit

Content	Measuring Range	Shaft	Tolerance	Outer-Ø	Art. No.
Dial Gauge	0 - 10 mm	8 mm, H6	0.01 mm	60 mm	1380
Micrometer	0 - 25 mm		0.01 mm		1370-1
3 point clamp					*1378-01*
Tripod					*1378-02*

Item	pcs	Art. No.
Brake Disk Measuring Tool Set	4	1378

Brake Drum Gauge

- for measuring wear on brake drums
- with locking screw

Item	Measuring Range	Nonius	Art. No.
Brake Drum Gauge	160 - 360 mm	1/10 mm	1377

Park Sensor and Holder Assembly Set, 18 pcs.

- for professional replacement of faulty parking sensors (PDC)
- easy punching of holes on replacement bumper bars or when retrofitting a PDC system
- for positioning and fixing PDC holders when glued to bumper bars

Content	Ø	Colour	pcs	Art. No.
Hole Punch	18.2 mm			*5870-01*
Hole Punch	18.4 mm			*5870-02*
Hole Punch	26.0 mm			*5870-03*
Pilot Insertion Tool	17.6 mm	red		*5870-04*
Pilot Insertion Tool	18.1 mm	silver		*5870-05*
Fixing Device		green	4	*5870-06*
Fixing Device		blue	4	*5870-07*
Fixing Device		silver	4	*5870-08*
HSS Twist Drill	10.2 mm			*5870-09*

Item	pcs	Art. No.
Park Sensor and Holder Assembly Set	18	5870

ACC Radar Sensor Adjustment Wrench, hex 3.5x230 mm, Audi / VW

- for professional adjustment of the sensor for adaptive cruise control (ACC), e.g. for calibration work

Item	OEM Comparison No.	Art. No.
ACC Radar Sensor Adjustment Wrench	VAS61902	5875

ADAS Radar Sensors Gauge, Volvo

- when working on the ADAS system (Advanced Driver Assistance Systems)
- for alignment the front radar sensor during calibration work
- in Volvo S60 (10-18), S80 (07-16), V40 (12-), V60 (10-18), V70 (07-16), XC60 (08-17) and XC70 (07-16)
- for accident repairs and work on the front fairing

Item	OEM Comparison No.	Art. No.
ADAS Radar Sensors Gauge	9997407	5872

ADAS Camera Gauge, Volvo

- when working on the ADAS system (Advanced Driver Assistance Systems)
- for aligning the front PAC (Parking Assistance Camera) during calibration work
- in Volvo S60 (18-), V60 (18-), V80 (17-), V90 (16-), S90 (16-), XC40 (17-), XC60 (17-) and XC90 (15-)
- during accident repairs and when changing the windscreen

Item	OEM Comparison No.	Art. No.
ADAS Radar Sensors Gauge	9997529	5873

Dent Repair Kit, with hot glue technology

- for easy repair of small dents, saves time and money
- no painting and filling work required, avoids problems with colour differences
- with specialist dent pulling tool, enables very gentle and exact dent removal:
  The pulling mechanism is operated by pressing the two handle levers together. The tool is designed to give the operator maximum control over how much force is to be applied.
- rubber-coated supports, protect against slipping off and scratching paintwork
- includes sliding hammer for larger dents

Content	Striking Weight	Length	Width	Ø	pcs	Art. No.
Sliding Hammer	415 gr	280 mm				*4939-01*
Dent Puller						*4939-02*
Aerosol Can						*4939-03*
Hot Glue Gun						*4939-H*
Chisel, plastic		275 mm	19 mm			3706-19
Specialist Hot Glue Cartridges		300 mm		11 mm	10	4939-K
Dent Puller Pads					12	4939-P

Item	Art. No.
Dent Repair Kit, with hot glue technology	4939

Specialist Hot Glue Cartridges

- accessory for dent repair kit No. 4939

Item	Ø	Length	pcs	Art. No.
Specialist Hot Glue Cartridges	11 mm	300 mm	10	4939-K

Dent Puller Pads

- accessory for dent repair kit No. 4939
- with 4 different profiles in various sizes

Item	pcs	Art. No.
Dent Puller Pads	12	4939-P

Dent Repair Tool Set, 12 pcs.

- for precise removal of small dents
- 8 exchangeable tip inserts manufactured from specialist fiber material, avoids damage to car paint
- includes 2 handles and 2 impact plates

Item	pcs	Art. No.
Dent Repair Set	12	4912

Dent Repair Kit, 33 pcs.

- to repair dents caused through hail, carparks etc. without damaging car paint
- universal assortment
- incl. thrust pillow and assembly lever
- supplied in strong bag

Item	pcs	Art. No.
Dent Repair Kit	33	4933

Air Dent Puller

- dent puller is fixed to car body through vacuum suction, then dent is pulled out with slide hammer
- 1/4" air connector

Content	Striking Weight	Ø	Art. No.
Sliding Hammer	1.36 kg		*8815-SG*
Suction Cap		60 mm	*8815-S6*
Suction Cap		120 mm	*8815-S12*
Suction Cap		150 mm	*8815-S15*

Item	Art. No.
Air Dent Puller	8815

Panel Beating Hammer Set, 11 pcs.

- 9 interchangeable panel beating tools
- 1 hammer with quick coupler
- 1 anvil

Item	pcs	Art. No.
Panel Beating Hammer Set	11	4920

Bodywork Panel Beating Set, 7 pcs.

- forged
- manufactured from specialist steel
- 4 anvils
- 3 panel beating hammers with fibre glass shaft and rubber handle

Item	pcs	Art. No.
Bodywork Panel Beating Set	7	103

Twist Panel Beating Hammer

- for nondeforming finishing work on repaired panels
- special striking surface, shrinks material by twisting
- shaft made from hickory, head made from chrome-vandium-steel

Item	Head-Ø	Weight	Length	Art. No.
Twist Panel Beating Hammer	38 mm	225 g	310 mm	104

Sliding Hammer

- screwed handle (not glued)
- made in Germany

Item	Striking Weight	Description	Length	Art. No.
Sliding Hammer	5 kg	connecting thread M18x1.5	710 mm	4925
Sliding Hammer	8.5 kg	connecting thread M18x1.5	930 mm	4928

4925

accessory

Item	Art. No.
Sliding Bar for No. 4925, extra short 460 mm	4925-460
Universal Joint, M18x1.5, for No. 4925 and 3306 etc.	3303

4928

Double Claw

- special jaw for holding chains when straightening car bodies
- universal for straightening and pulling jobs
- to be used with a sliding hammer, e.g. No. 4925

Item	Description	Art. No.
Double Claw	connecting thread M18x1.5, with swivel function	4921

Claw Hook

- for disassembly chassis frame components, e.g. control arm or suspension strut
- also universally suitable for many straightening and pulling jobs
- to be used with a sliding hammer, e.g. No. 4925

Item	Description	Jaw Width	Art. No.
Claw Hook	connecting thread M18x1.5	85x110 mm	4922

4916

4917

4918

Body Clamps

- manufactured from specialist steel
- toothed jaw protects from slipping off
- for straigthening car bodies

Item	Pull Directions	Art. No.
Body Clamp	2	4916
Body Clamp	1	4917
Body Clamp	2	4918

Dent Puller Set, 11 pcs.

- multi purpose bodywork tool set
- 1 slide hammer 3 kg
- 9 attachments (hooks, levers, chain)

Item	pcs	Art. No.
Dent Puller Set	11	4910

Door Alignment Tool

- for straightening jobs on doors and boot lids on cars and vans
- incl. 3 specialist bolts (convenient storage in handle)

Item	Length	Art. No.
Door Alignment Tool	650 mm	5467

Panel Chisel

- with hand protection

Item	Length	Material	Art. No.
Panel Chisel	240 mm	chrome vanadium steel	231

Body Cutting Chisel, straight

- to break up welding spots, separating body panels, etc.
- two cutting edges (front and side), regrindable
- 2-component protective grip
- go-through blade

Item	Length	Material	Art. No.
Body Cutting Chisel	300 mm	chrome vanadium steel	4931

Body Cutting Chisel, 15° angled

- to break up welding spots, separating body panels, etc.
- two cutting edges (front and side), regrindable
- 2-component protective grip
- go-through blade

Item	Length	Material	Art. No.
Body Cutting Chisel	300 mm	chrome vanadium steel	4936

Body Cutting Chisel, 90° angled

- to break up welding spots, separating body panels, etc.
- two cutting edges (front and side), regrindable
- 2-component protective grip
- go-through blade

Item	Length	Material	Art. No.
Body Cutting Chisel	240 mm	chrome vanadium steel	4937

Body Chisel Set, straight / 15° / 90°, 3 pcs.

- to break up welding spots, separating body panels, etc.
- two cutting edges (front and side), regrindable
- 2-component protective grip
- go-through blade

Item	Material	pcs	Art. No.
Body Chisel Set	chrome vanadium steel	3	4938

Soldering Tin, 1,000 g

- triangular version
- DIN EN ISO 9453
- only for commercial users!

Item	Description	Weight	Art. No.
Soldering Tin	25 % SN	1000 g	40200
Soldering Tin	40 % SN	1000 g	40201

Soldering Fluid, 250 ml bottle

- flux for general soldering work on metallic surfaces, except aluminium and stainless steel
- DIN EN ISO 9454

Item	Art. No.
Soldering Fluid	40202

Tinning Paste, 250 g bottle

- for general soldering work, e.g. soft soldering, tinning
- lead-free, SN97Cu3, DIN EN ISO 9453
- flux according to DIN EN ISO 9454.1

Item	Art. No.
Soldering Fluid	40203

Car Body File Frame

- aluminium diecast
- hardened file holder
- made in Germany
- supplied without file

Item	Description	Art. No.
Car Body File Frame	for 350 mm car body files	5345

5346

5346-12

5347-9

5347-12

5346-1

Car Body Files

Item	Description	Length	Teeth	Art. No.
Car Body File	flat hand	350 mm	radial milled, coarse 9 TPI	5346
Car Body File	flat hand	350 mm	radial milled, medium 12 TPI	5346-12
Car Body File	flat hand	350 mm	diagonal milled, coarse 9 TPI	5347-9
Car Body File	flat hand	350 mm	diagonal milled, medium 12 TPI	5347-12
Car Body File	semi-circular hollow	350 mm	radial milled, coarse 9 TPI	5346-1

5835-1

5835-2

5835-3

Seaming Pliers Set, 3 pcs., straight jaw / 45° / 90°

- for bending and folding sheet metal
- also suitable for roofers for seaming zinc and copper sheets

Content	Description	Length	Art. No.
Seaming Pliers	straight type	280 mm	5835-1
Seaming Pliers	45° offset	280 mm	5835-2
Seaming Pliers	90° offset	280 mm	5835-3

Item	Description	pcs	Art. No.
Seaming Pliers Set	straight jaw / 45° / 90°	3	5835-SET

Flange Pliers for Wheel Housing and Fender

- for smooth border crimping in wheel housing
- protective plastic jaw
- for tuning and carbody jobs
- prevents contact between wide tires and wheel housing

Item	Description	Length	Art. No.
Flange Pliers for Wheel Housing and Fender	with protective jaw	310 mm	5837

Wheel Arch Reforming Tool

- for flaring wheel arches
- required when changing the wheel / tire combination or lowering the car, prevents tire rub
- also suitable for repairing collision damage
- telescopic arm with 180° swivel pressure roller
- to be bolted onto a 4 or 5-hole hub flange with hole circle 95 - 120 mm

Item	Description	Weight	Art. No.
Wheel Arch Reforming Tool	for hole circle 95 - 120 mm	7500 g	5838

Combined Edge Setter and Hole Punch Pliers

- swivel head
- for setting edges in sheet metal up to 1 mm and for punching holes (hole-ø 5 mm)

Item	Length	Art. No.
Combined Edge Setter/Hole Punch Pliers	290 mm	5820

Hole Punch

- adjustable position, 15 - 26 mm
- specially designed for spot welding
- for autobody sheet metal (not stainless steel!)
- hole-ø 5 mm
- punch and matrix replaceable

Item	Length	Art. No.
Hole Punch	290 mm	5825

Edge Setter

- for setting edges up to 1 mm
- setting depth 11 mm
- jaw width 22 mm
- suitable for sheet metal thickness up to 1.2 mm

Item	Length	Art. No.
Edge Setter	270 mm	5830

Role Edge Setter, 12 mm

- for producing clean edges in sheet metal
- also suitable for internal and external radiuses, quick and smooth results
- ideal for custom-made automotive sheet metal, e.g. when restoring oldtimers
- attach tool to metal edge and lock with clamping lever
- operate hexagon drive with ratchet, wrench or power drill

Item	Description	Art. No.
Role Edge Setter	edge setting width 12 mm / max. metal thickness 1.2 mm	5831-12

Sheet Metal Cutter

- for cutting sheet metal
- ideal for car body jobs and oldtimer restoring
- also suitable for curved cutting
- high lever transmission for convenient operation
- can be operated stationarily with vice

Item	Description	Art. No.
Sheet Metal Cutter	max. metal thickness 1.6 mm	5899

Spot Weld Cutter Set, 9 pcs.

- for separating spot welded sheet metal
- incl. 2 spare cutter blades ø 8 + 9.5 mm each size and 2 spare centering pins

Item	Ø	Length	Art. No.
Spot Weld Cutter Set, HSS	8 / 9.5 mm	76 mm	266-9

accessory

Item	Art. No.
Spot Weld Cutter, HSS, 70 mm long, ø 9.5 mm	266
Spare Cutter Blade, HSS, ø 9.5 mm, for No. 266	266E

8775

Spot Weld Cutter Sets, 5 pcs.

- for separating spot welded sheet metal
- to be operated with power drills

8776

Item	Ø	Length	Material	Quantity	Art. No.
Spot Weld Cutter	8 mm	79 mm	HSS Co5	5 pcs.	8775
Spot Weld Cutter	8 mm	79 mm	HSS Co5 TiCN	5 pcs.	8776

8770

Spot Weld Cutter Sets, 5 pcs.

- for separating spot welded sheet metal
- requires specialist machines

8771

Item	Ø	Length	Material	Quantity	Art. No.
Spot Weld Cutter	8 mm	44 mm	HSS Co5	5 pcs.	8770
Spot Weld Cutter	8 mm	44 mm	HSS Co5 TiCN	5 pcs.	8771

accessory

Item	Art. No.
Air Spot Drill, with 2" hook	8862

Copper Plate Welding Tool, 4 pcs.

- ideal for welding-up holes
- copper plates allow for better welding result, by absorbing excess heat and reducing weld pool dripping

Item	Description	pcs	Art. No.
Copper Plate Welding Tool	with 3 copper plates (straight, bent, half-round)	4	5775

Mini Bodywork Clamps, 4 pcs.

- for preparing sheet metal for welding
- adjustable spread 0 - 7 mm for different metal thickness
- tiltable clamping jaws
- clamping strength adjustable through wingnut, enabling precise alignment
- suitable for narrow spaces, e.g. wheel housing, windows or engine compartment

Item	Length	Width	Height	Quantity	Art. No.
Mini Bodywork Clamps	60 mm	30 mm	22 mm	4 pcs.	5852

Gas Strut Clamp

- for clamping on weak gas struts in extended position on engine hood and trunk

Item	Description	Art. No.
Gas Strut Clamp	with t-bar	5910

Telescopic Stand, 540-1200 mm

- continuously adjustable from 540 to 1200 mm
- easy adjustment by turning telescopic element
- for keeping engine hood or trunk wide open, e.g. when replacing original gas struts or repairing car body
- rubber-coated ends for secure stand and prevent slipping away
- low weight, manufactured from aluminium

Item	Length	Material	Art. No.
Telescopic Stand	540-1200 mm	aluminium	5911

Door Handle Disassembly Hook, Audi / VW

- to operate the locking hook when disassembling door handles without locking cylinder
- for VW Arteon (from 2017), Caddy (from 16), Golf Sportsvan (from 2015), Passat (from 2015), Tiguan (from 2016) and Touran (from 2016)
- for Audi Q2 (from 2016)

Item	OEM Comparison No.	Length	Art. No.
Door Handle Disassembly Hook	T10539	260 mm	5333

Door Handle Disassembly Hook, Audi / VW

- to operate the locking hook when disassembling door handles without locking cylinder
- for Golf VI, Tiguan, Fox, Passat, Polo etc.

Item	OEM Comparison No.	Length	Art. No.
Door Handle Disassembly Hook	T10389	250 mm	5331

Door Cylinder Lever, Renault

- for disassembly and assembly of locking cylinders on front doors
- no removal of door lining required
- for Renault Megane and Scenic

Item	Description	Length	Art. No.
Door Cylinder Lever	with specialist hook profile	165 mm	5332

Sanding Block

- for abrasive paper
- metal clamping device

Item	Length	Width	Art. No.
Sanding Block	210 mm	105 mm	9533

Interior

Trim Removal Wedges, 5 pcs.

- supplied in pouch
- suitable for door linings, dashboards, rubber gaskets, trim strips etc.
- made from high-strength plastic

Item	Length	pcs	Art. No.
Trim Removal Wedges	200 - 250 mm	5	3707

Car Interior Lever Set, 11 pcs.

- suitable for door linings, dashboards, rubber gaskets, trim strips etc.
- specially suitable for hard to reach areas
- made from high-strength plastic

Item	Length	pcs	Art. No.
Car Interior Lever Set	160 - 200 mm	11	3709

Car Interior Lever Set, 5 pcs.

- suitable for door linings, dashboards, rubber gaskets, trim strips etc.
- made from high-strength plastic

Content	Length	Width	Art. No.
Assembly Lever	160 mm	60 mm	3708-60W
Assembly Lever	170 mm	30 mm	3708-30R
Assembly Lever	200 mm	30 mm	3708-30B
Assembly Lever	175 mm	20 mm	3708-20A
Assembly Lever	210 mm	20 mm	3708-20C

Item	Length	pcs	Art. No.
Car Interior Lever Set	160 - 210 mm	5	3708

Assembly Levers

- suitable for door linings, dashboards, rubber gaskets, trim strips etc.
- made from high-strength plastic

Item	Length	Width	Art. No.
Assembly Lever	210 mm	20 mm	3708-20C
Assembly Lever	200 mm	30 mm	3708-30B
Assembly Lever	175 mm	20 mm	3708-20A
Assembly Lever	170 mm	30 mm	3708-30R
Assembly Lever	160 mm	60 mm	3708-60W

Mini Assembly Lever, steel

- robust lever tool with hardened steel blade on both sides
- slim, tapered shape enables precise work in hard-to-reach areas
- ideal for loosening components such as water pumps, cylinder heads, crankshafts and camshaft sprockets

Item	Length	Art. No.
Mini Assembly Lever	210 mm	3737

Clip Lever Set, stainless, 5 pcs.

- suitable for door linings, dashboards, rubber gaskets, trim strips etc.
- made from stainless steel
- with 2-component rubber handles

Item	pcs	Art. No.
Clip Lever Set	5	3730

Precision Clip Lever Set, 3 pcs.

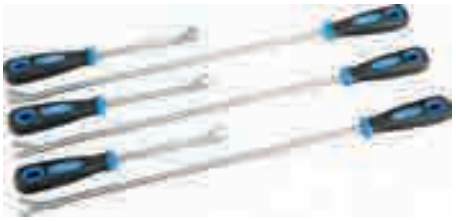
- suitable for door linings, dashboards, rubber gaskets, trim strips etc.
- slim head shapes and widths for filigree applications
- specially suitable for hard to reach areas
- handle part heat-shrink coated for better grip
- made from stainless steel

Item	Description	Length	pcs	Art. No.
Precision Clip Lever Set	3.4, 5.5, 7.5, 10.1, 10.2, 12.6 mm	185 mm	3	3735

Clip Lever Set, 6 pcs.

- for quick and easy removal of all kinds of interior trims
- offset jaws with 3 sizes of width: 4, 8 and 10 mm
- each size in 2 lengths: 235 and 495 mm

Item	Length	Jaw Width	pcs	Art. No.
Clip Lever Set	235, 495 mm	4, 8, 10 mm	6	3726



Chisel Set, plastic, 4 pcs.

- suitable for wide range of applications, e.g. removing wheel weight adhesives on alloy wheels or trim strips without damaging car paint
- handle with striking cap for light hitting

Content	Length	Width	Art. No.
Chisel, plastic	275 mm	19 mm	3706-19
Chisel, plastic	275 mm	22 mm	3706-22
Chisel, plastic	275 mm	25 mm	*3706-25*
Chisel, plastic	275 mm	37 mm	*3706-37*

Item	pcs	Art. No.
Plastic Chisel Set	4	3706

Doorclip and Rivet Pliers

- 4-way adjustable head from 0-90°
- for opening reusable two-piece plastic rivets and clips

Item	Art. No.
Doorclip and Rivet Pliers	3728

Clip Removal Pliers

- for careful removal of retaining clips on door panel trims, trim strips, rubber bumper facings etc.

Item	Jaw Width	Art. No.
Clip Removal Pliers	6.5 mm	3729

Clip Remover, for spring steel clips (Omega shape)

- for damage-free removal of spring steel clips found in car interior
- avoids damage to surrounding components
- saves time and allows re-using of clips

Item	OEM Comparison No.	Art. No.
Clip Remover	T40280	3727

Release Tool for Grab Handles, Seat / Skoda / VW / MAN

- for damage-free removal of retaining clips and grab handles in the car interior
- non-destructive removal of the retaining clips is almost impossible without this tool
- for repairs in the car interior and on the car headliner

Item	OEM Comparison No.	Art. No.
Release Tool for Grab Handles	T10517, T10518, T10518A	5334

Clip Lever Set, 2 pcs.

- for waterproof electrical connectors
- also for rubber plugs, metal and plastic clips

Item	Jaw Width	pcs	Art. No.
Clip Lever Set	4 mm	2	3720

Clip Lever

- extra flat jaw for easy access to clip
- specially suitable for reusable clips
- manufactured in Germany

Item	Length	Jaw Width	Art. No.
Clip Lever	165 mm	5 mm	3723

Clip Remover with Protective Cap

- with protective cap on the underside of the lever for damage-free working
- extra flat jaw for easy access to clip
- specially suitable for reusable clips

Item	Length	Jaw Width	Art. No.
Clip Remover with Protective Cap	165 mm	4.5 mm	3722

Clip Lever

- ideal for removing plastic expansion rivets
- also suitable as lever for door linings, covers etc.

Item	Jaw Width	Art. No.
Clip Lever	0-2 mm	3721

Door Panel Removal Tool

- for loosening door linings, covers etc.
- also for removing plastic expansion rivets

Item	Length	Jaw Width	Art. No.
Door Panel Removal Tool	235 mm	7-15 mm	3724

Door Panel Removal Tool

- for loosening door linings, covers etc.
- also for removing plastic expansion rivets

Item	Length	Jaw Width	Art. No.
Door Panel Removal Tool	235 mm	6-9 mm	370

Hook Set, Mercedes dashboard instruments

- for removing Mercedes dashboard instruments
- for Mercedes type W116, W123, W124, W126, W129, W140, W201, W202, W203, W208, W209, W210, W211, W220 and W230

Item	OEM Comparison No.	pcs	Art. No.
Hook Set, dashboard instruments	140589023300	2	1592

Radio Removal Kit, 18 pcs.

- for releasing wide range of car radios
- specialist hooks to avoid damage

Item	pcs	Art. No.
Radio Removal Kit	18	4710

Radio and Navigation System Removal Kit, 32 pcs.

- for releasing car radios and navigation systems
- specialist hooks to avoid damage
- comprehensive assortment for almost all manufacturers

Item	pcs	Art. No.
Radio and Navigation System Removal Kit	32	4711

Universal Airbag Removal Set, 12 pcs.

- for safe disassembly and assembly of air bag units in many popular cars

Content	Description	Length	pcs	Art. No.
Socket Bit	tx-star T25, 1/4", e.g. BMW	80 mm		*14083-25*
Socket Bit	tx-star T30, 1/4", e.g. Audi, Opel, Renault, VW	80 mm		*14083-30*
Socket Bit	tx-star tamperproof T25, 1/4", e.g. BMW	80 mm		*14084-25*
Socket Bit	tx-star tamperproof T30, 1/4", e.g. Audi, BMW, Mercedes, Opel	80 mm		*14084-30*
Socket Bit	hexagon 5 mm, 1/4", e.g. Audi	80 mm		*14082-5*
Airbag Keys	Golf IV, New Beetle, T4, Fabia, Octavia from '99 (always apply pairwise)	120x50 mm	2	*4995-1*
Airbag Keys	Lupo, Passat B5, Polo from '99, A4, A6, Superb (always apply pairwise)	178x80 mm	2	*4995-2*
Airbag Keys	release of inner spring circlip	105x95 mm		*4995-3*
Airbag Keys	Bora from '99, Golf IV 98-04, Passat from '97	100x25 mm		*4995-4*
Airbag Keys	New Beetle 99-04, Golf, Jetta, Passat	80x80 mm		*4995-5*

Item	pcs	Art. No.
Universal Airbag Removal Set	12	4995

Universal Steering Wheel Level

- for quick and exact alignment of the steering wheel
- spring-loaded mechanism for easy application
- universally suitable for cars and trucks

Item	Spread	Art. No.
Universal Steering Wheel Level	270 - 350 mm	4583

Glass Panes and Wipers

Professional Windscreen Disassembly Set

- for professional disassembly of glued windscreens
- easy handling allows for one man operation
- 150 mm ø suction caps with vacuum hand pump provide firm grip on windscreen
- max. 50 kg capacity per suction cap

Content	Description	Art. No.
Single Suction Holder	with deflection pulley for pull system	*5905-01*
Twin Suction Holder	with reel (1/2" sq. drive)	*5905-02*

Item	Description	Art. No.
Professional Windscreen Disassembly Set	max. 50 kg capacity per suction cap	5905

Window Cutting Line, high-strength, 50 m

- coated and braided material
- ideal for disassembly of glued windscreens
- protects against damage on car paint or other sensitive surfaces
- only ø 0.8 mm, for better access to adhesive beads
- specialist mesh with high tensile strength of 160 daN
- ideal accessory for windscreen disassembly set No. 5905
- manufactured in Germany

Item	Profile	Ø	OEM Comparison No.	Length	Art. No.
Window Cutting Line	braided	0.8 mm	VAS861001/1A, ASE86100200A00	50 m	5921

Window Cutting Wire, square, 50 m

- for cutting out windows
- for smooth, clean and exact cutting performance
- high-strength qualtity with tensile strength 2.400 N/mm²
- high quality stainless steel, manufactured in Germany
- supplied on cardboard roll

Item	Profile	Length	Material	Art. No.
Cutting Wire	square	50 m	stainless steel	5927

Window Cutting Wire, braided, 22.5 m

- ideal for cutting out bonded windows
- extremely flexible for perfect cutting performance
- braided from 3 single wires

Item	Profile	Ø	Length	Material	Art. No.
Cutting Wire	braided	0.9 mm	22.5 m	brass	5926

Windscreen Disassembly Set, 7 pcs.

- for bonded windscreens
- content:
  1x square cutting wire, 20 m
  2x wire gripping handles
  1x pulling knife, for cutting the adhesive compound
  1x wire feeder, for inserting wire through windscreen sealing
  1x interior lever
  1x trim and air grill lever

Item	pcs	Art. No.
Windscreen Disassembly Set	7	5925

Windscreen Removal Cutter

- for cutting bonded windscreens
- handle and blade holder made from aluminium

Item	Art. No.
Windscreen Removal Cutter	5920

accessory

Item	Art. No.
Spare Blade, for No. 5920	5920-1

Wire Gripping Handles, 2 pcs.

- for bonded window disassembly with cutting wire
- clamping and tensioning mechanism for safe wire gripping
- rubber coated handle

Item	Description	Quantity	Art. No.
Wire Gripping Handles	solid metal	2 pcs.	5928

Wire Feedthrough Tool, with T-handle, 100 mm

- for accurately piercing adhesive beads
- allows easy feedthrough of cutting wire
- probe made from stainless steel
- handle made from aluminium

Item	Length	Art. No.
Wire Feedthrough Tool	100 mm	5919

Wire Feeder, extra long

- for inserting wire through adhesive compound
- made from flexible specialist steel

Item	Length	Art. No.
Wire Feeder	320 mm	5923

Cutting Wire Counter Holder, XL

- for counter holding cutting wire also in deep dashboards and linings
- with extra long blade
- with tensioning screw to fix cutting wire

Item	Length	Art. No.
Cutting Wire Counter Holder	350 mm	5924

Dashboard Protection Panels, 4 pcs.

- damage protection when cutting and removing bonded car glass
- covers dashboards, linings, roof interior etc.
- made of high-strength plastic

Item	pcs	Art. No.
Dashboard Protection Panels	4	5934

Windscreen Carrier

- safely holds the glass pane during assembly / disassembly on the vehicle
- 4 flexible suction cups with ø 150 mm enable perfect adaption to the curvature of the windscreen
- each suction cup is equipped with a hand operated vacuum pump for maximum pressure
- 4 strong support pads for resting the carrier on the ground
- capacity up to 80 kg permits transport of even very large windscreens or other similar objects and materials

Item	Length	Width	Art. No.
Windscreen Carrier	1310 mm	280 mm	5900

Windscreen Transport Set, 2 twin suction lifters, 1 ratchet strap

- suitable for lifting, carrying and holding windscreens and other items with flat and gas-tight surface
- with swivel joints, suitable for curved panes
- 2x twin suction lifter No. 5912
- 1x ratchet tie down (400 daN, 5m x 25 mm)

Item	pcs	Art. No.
Windscreen Transport Set	3	5914

17

Twin Suction Lifter, swivel joints

- suitable for lifting, carrying and holding windscreens and other items with flat and gas-tight surface
- with swivel joints, suitable for curved panes

Item	Ø	Capacity	Length	Art. No.
Twin Suction Lifter	120 mm	max. 60 kg	405 mm	5912

Suction Cup

- with quick-release handle for one-hand operations
- suitable as dent puller or for safe transport of awkward items such as windscreens, windows, mirrows etc.

Item	Ø	Art. No.
Suction Cup	ø 115 mm	255

Mini Suction Cups, 2 pcs.

- with quick-release handle for one-hand operations
- suitable as dent puller
- also for safe transport of small items such as windows, mirrows etc.

Item	Ø	Quantity	Art. No.
Mini Suction Cups	55 mm	2 pcs.	255-2

Single Hand Suction Lifter, ø 70 mm

- for lifting, carrying and holding
- with quick-release for practical one-hand operation
- ideal for adjusting and inserting mirror glasses

Item	Ø	Capacity	Art. No.
Single Hand Suction Lifter	70 mm	max. 8 kg	5916

Windscreen-Wiper Arm Puller

- for BMW E38 and E39 up to 2005
- for VW Golf and Passat up to 2005
- also suitable for many other vehicles

Item	Jaw Width	Art. No.
Wiper Arm Puller	23.9 mm	3472

Windscreen-Wiper Arm Puller

- with handwheel
- max. spread 24 mm

Item	Jaw Width	Art. No.
Wiper Arm Puller	16 mm	3473

Universal Wiper Arm Puller Set, 13 pcs.

- for disassembly of almost all popular wiper arms
- for front and rear windows
- also for wiper arms with integrated spray nozzles

Content	Description	Jaw Width	Art. No.
Sliding Hammer	weight 700 g		*5478-SH*
Wiper Arm Puller	with 2 puller arm pairs		5478-AB
Thrust Spindle	16 mm hexagon drive		*5478-AS*
Puller Head Attachment		21 mm	*5478-1*
Puller Head Attachment		24 mm	*5478-2*
Puller Head Attachment		16 mm	*5478-3*
Puller Head Attachment		23 mm	*5478-4*
Puller Head Attachment		28 mm	*5478-5*
Puller Head Attachment		19 mm	*5478-6*
Puller Head Attachment		17 mm	*5478-7*
Puller Head Attachment		17 mm	*5478-8*
Spindle Extension	length 32 mm		*5478-D1*
Pressure Sleeve for Spray Nozzle	bore 7 mm		*5478-D2*

Item	pcs	Art. No.
Universal Wiper Arm Puller Set	13	5478

Wiper Arm Puller

Item	Description	Art. No.
Wiper Arm Puller	with 2 puller arm pairs	5478-AB

Wiper Arm Puller, Audi / VW

- specially for rear window wiper arms on Audi, VW, Seat and Skoda
- also suitable for many other vehicles

Item	Spread	Art. No.
Wiper Arm Puller	max. 60 mm	4588

Specialist Puller

- for pulling battery terminals
- for disassembly of many common wiper arms
- extra flat jaw

Item	Jaw Width	Art. No.
Specialist Puller	max. 55 mm	3555

Windscreen-Wiper Arm Puller

- spring loaded jaw for continuous adjustment
- brass tip to protect wiper spindle
- universal tool, e.g. for BMW, Opel, Audi / VW etc.

Item	Jaw Width	Art. No.
Wiper Arm Puller	15 - 37 mm	3471

Windscreen Water Spray Nozzle Adjuster, Opel

- for adjusting the fan nozzle for window cleaning
- for Opel Astra (J), Insignia etc.

Item	Description	Length	Art. No.
Windscreen Water Spray Nozzle Adjuster	with specialist profile	150 mm	5929

Windscreen Water Spray Nozzle Adjuster, Mercedes

- for adjusting the fan nozzle for window cleaning
- specialist profile, for precise fitting to the nozzle head
- operated by 6 mm external hexagon
- for Mercedes W204, W207, W212, W218

Item	Description	Length	Art. No.
Windscreen Water Spray Nozzle Adjuster	with specialist profile	67 mm	5931

Commercial Vehicles

Thread Chaser, for commercial vehicles

- for cleaning and rethreading external threads, e.g. on stub shafts, hydraulic systems, steering and driving rods
- no alignment difficulties: the thread chaser can first be attached to any undamaged section of the thread, and then work its way through to the damaged threads
- for ø 35 - 130 mm, metric and inch, right and left hand threads
- content:
  1x main body
  2x metric plates, pitch: 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0, 3.5 mm
  4x inch plates (AF), pitch: 4, 5, 6, 7, 7.5, 8, 9, 10, 11, 11.5, 12, 14, 16, 18, 20, 24

Item	Ø	Description	Art. No.
Thread Chaser, for commercial vehicles	35-130 mm	metric and inch	5353

Fluid Collection Pan, truck axle oil

- for collecting oil, e.g. when disassembling full floating axles or driveshafts

Item	Capacity	Art. No.
Fluid Collection Pan, truck axle oil	3 L	9903

Impact Socket for Axle Bolts, Mercedes, 3/4", TX-Plus EP32

- in Mercedes trucks Actros, Arocs and Antos
- for work on axles, bellows, leaf springs and stabilisers

Item	Profile	Size	OEM Comparison No.	Length	Art. No.
Impact Socket	TX-Plus	EP 32	963589000900	50 mm	5223-32
Impact Socket	TX-Plus	EP 32	963589000900	90 mm	5224-32

Ball Joint Separator

- designed for conical seat connections, e.g. on Actros, TGA
- high pulling force through combined twist and impact momentum
- trapezoid thread, suitable for impact tools

Item	Jaw Width	Art. No.
Ball Joint Separator for Trucks	39 mm	4571-39

Groove Nut Socket Set, external pins, KM4 - 12

- for loosening and tightening of grooved nuts on shafts, clamping and pulling sleeves
- e.g. during assembly / disassembly of bearings, gear wheels, ball bearings or cone roll bearings
- for land and construction machinery, industry and commercial vehicles
- complies with DIN 981
- compact construction for application in tight spaces

Content		KM8	52008
KM4	52004	KM9	52009
KM5	52005	KM10	52010
KM6	52006	KM11	52011
KM7	52007	KM12	52012

Item	Profile	Size	Drive	pcs	Art. No.
Groove Nut Socket Set	external pins	KM4 - KM12	1/2+3/4"	9	52000

Groove Nut Sockets, external pins

Item	Profile	Size	Drive	Art. No.
Groove Nut Socket	external pins	KM4	1/2"	52004
Groove Nut Socket	external pins	KM5	1/2"	52005
Groove Nut Socket	external pins	KM6	1/2"	52006
Groove Nut Socket	external pins	KM7	1/2"	52007
Groove Nut Socket	external pins	KM8	1/2"	52008
Groove Nut Socket	external pins	KM9	3/4"	52009
Groove Nut Socket	external pins	KM10	3/4"	52010
Groove Nut Socket	external pins	KM11	3/4"	52011
Groove Nut Socket	external pins	KM12	3/4"	52012

Groove Nut Socket Set, internal taps, KM4-12

- for loosening and tightening of grooved nuts on shafts, clamping and pulling sleeves
- e.g. during assembly / disassembly of bearings, gear wheels, ball bearings or cone roll bearings
- for land and construction machinery, industry and commercial vehicles
- complies with DIN 981
- compact construction for application in tight spaces

Content		KM8	52108
KM4	52104	KM9	52109
KM5	52105	KM10	52110
KM6	52106	KM11	52111
KM7	52107	KM12	52112

Item	Profile	Size	Drive	pcs	Art. No.
Groove Nut Socket Set	internal taps	KM4 - KM12	1/2+3/4"	9	52100

Groove Nut Sockets, internal taps

Item	Profile	Size	Drive	Art. No.
Groove Nut Socket	internal taps	KM4	1/2"	52104
Groove Nut Socket	internal taps	KM5	1/2"	52105
Groove Nut Socket	internal taps	KM6	1/2"	52106
Groove Nut Socket	internal taps	KM7	1/2"	52107
Groove Nut Socket	internal taps	KM8	1/2"	52108
Groove Nut Socket	internal taps	KM9	3/4"	52109
Groove Nut Socket	internal taps	KM10	3/4"	52110
Groove Nut Socket	internal taps	KM11	3/4"	52111
Groove Nut Socket	internal taps	KM12	3/4"	52112

Engine Rotater, DAF (Euro 4/5), 1/2"

- for manual turning of the engine
- enables pinpoint positioning
- for adjusting valve clearance or engine repair

Item	Drive	Art. No.
Engine Rotater	1/2"	51101

Engine Rotater, Mercedes / MAN, 1/2", 2 gears

- for Mercedes engines with 6, 8 and 10 cylinders
- for MAN engines with 12 cylinders
- for manual turning of the engine
- enables pinpoint positioning
- for adjustment work on valve clearance or engine repair

Item	Drive	OEM Comparison No.	Art. No.
Engine Rotater	1/2"	407589006300 / 80996266008	51102

for engine codes:
D2842, OM401, OM402, OM403, OM409, OM421, OM422, OM423, OM429, OM441, OM442, OM444, OM446, OM447, OM457, OM489, OM541, OM542

Engine Rotater, Mercedes / MAN, 1/2", 3 gears

- for Mercedes Actros and Atego engines with 4, 6 and 8 cylinders
- for MAN engines with 5, 6 and 8 cylinders
- for manual turning of the engine
- enables pinpoint positioning
- for adjustment work on valve clearance or engine repair

Item	Drive	OEM Comparison No.	Art. No.
Engine Rotater	1/2"	904589046300	51103

for engine codes:
D25, D28, OM457, OM541, OM542, OM902, OM904, OM906, OM924, OM926

Engine Rotater, MAN, 1/2", 1 gear

- for engines with 6 and 8 cylinders
- for manual turning of the engine
- enables pinpoint positioning
- for adjustment work on valve clearance or engine repair

Item	Drive	Art. No.
Engine Rotater	1/2"	51104

for engine codes:
D20, D25, D26, D28

Engine Rotater, Scania, 1/2"

- for engines with 5, 6 and 8 cylinders
- for manual turning of the engine
- enables pinpoint positioning
- for adjustment work on valve clearance or engine repair

Item	Drive	Art. No.
Engine Rotater	1/2"	51105

for engine codes:
DC12, DC13, DC16

for engine codes:
D13, D13A520, DXI13, MP8, MP10

Engine Rotater, Volvo / Renault, 1/2" / 24 mm

- for engines with 6 cylinders
- for manual turning of the engine
- enables pinpoint positioning
- for adjustment work on valve clearance or engine repair

Item	Drive	OEM Comparison No.	Art. No.
Engine Rotater	1/2"	88800014	51106

Crown Wrenches for Commercial Vehicles, 4 pcs.

- for operating the pressure screw on the nozzle holder
- for Mercedes-Benz, MAN and other commercial vehicles
- also suitable for construction and agricultural vehicles

Item	Application	pcs	Art. No.
Crown Wrenches for Commercial Vehicles	for injector body	4	4775

Specialist Socket for Truck Diesel Injectors

- special toothed pattern for easy disassembly and assembly of diesel injectors
- internal hexagon drive for counterholding when pulling

Item	for Manufacturer	Art. No.
Specialist Socket for Truck Diesel Injectors	Mercedes-Benz, MAN, Scania	4776

Fuel Injection Pump Socket, Mercedes

Item	Profile	Drive	OEM Comparison No.	Length	Application	Art. No.
Socket, for fuel injection pump	33 Teeth	1/2"	617589010900	55 mm	MB 601, 602, 603, 605, 606, 615, 616, 617	4781

Impact Socket Bit Set, 22 pcs., 3/4", tx-star / hexagon

Content	Profile	Size	Length	Art. No.
Impact Socket Bit	TX-Star T	T60	60 mm	15033-K60
Impact Socket Bit	TX-Star T	T70	60 mm	15033-K70
Impact Socket Bit	TX-Star T	T80	60 mm	15033-K80
Impact Socket Bit	TX-Star T	T90	60 mm	15033-K90
Impact Socket Bit	TX-Star T	T100	60 mm	15033-K100
Impact Socket Bit	TX-Star T	T60	105 mm	15103-K60
Impact Socket Bit	TX-Star T	T70	105 mm	15103-K70
Impact Socket Bit	TX-Star T	T80	105 mm	15103-K80
Impact Socket Bit	TX-Star T	T90	105 mm	15103-K90
Impact Socket Bit	TX-Star T	T10	105 mm	15103-K100
Impact Socket Bit	Hexagon	14 mm	60 mm	15022-K14
Impact Socket Bit	Hexagon	17 mm	60 mm	15022-K17
Impact Socket Bit	Hexagon	19 mm	60 mm	15022-K19
Impact Socket Bit	Hexagon	21 mm	60 mm	15022-K21
Impact Socket Bit	Hexagon	22 mm	60 mm	15022-K22
Impact Socket Bit	Hexagon	24 mm	60 mm	15022-K24
Impact Socket Bit	Hexagon	14 mm	105 mm	15102-K14
Impact Socket Bit	Hexagon	17 mm	105 mm	15102-K17
Impact Socket Bit	Hexagon	19 mm	105 mm	15102-K19
Impact Socket Bit	Hexagon	21 mm	105 mm	15102-K21
Impact Socket Bit	Hexagon	22 mm	105 mm	15102-K22
Impact Socket Bit	Hexagon	24 mm	105 mm	15102-K24

Item	Size	Drive	Length	pcs	Art. No.
Impact Socket Bit Set	14-24 mm / T60-100	3/4"	60 mm + 105 mm	22	37152

Impact Bit Set for Trucks, 16 pcs., 3/4+1"

- includes hexagon key

Content			
TX-Star E		19 mm	*4716-K19*
22 mm bit, 110 mm		22 mm	*4716-K22*
E18	*4716-E18*	24 mm	*4716-K24*
E20	*4716-E20*	TX-Star T	
E22	*4716-E22*	22 mm bit, 110 mm	
E24	*4716-E24*	T60	*4716-T60*
Hexagon		T70	*4716-T70*
22 mm bit, 110 mm		T80	*4716-T80*
17 mm	*4716-K17*	T90	*4716-T90*
		T100	*4716-T100*

Item	Profile	Drive	pcs	Art. No.
Impact Bit Set for Trucks	TX-Star E, TX-Star T, Hexagon	3/4+1"	16	4716

Drive Tools / Accessory, 3/4"	
Bit Holder, CrMo., 3/4"	*4716-AD34*
Drive Tools / Accessory, 1"	
Bit Holder, CrMo, 1"	*4716-AD1*

Impact Socket Set, 6 pcs., 3/4", tx-star / bi-hex

Content	Profile	Size	Length	Application	Art. No.
Impact Socket	bi-hexagon	17 mm	110 mm	MB 400, 420, 500	5220-17
Impact Socket	bi-hexagon	19 mm	110 mm	MB 300, 400, 900	5220-19
Impact Socket	TX-Star E	E18	110 mm	MAN M2000, bus engines D08	5221-E18
Impact Socket	TX-Star E	E20	110 mm	MAN F2000, F90, F8, bus engines D25, D28	5221-E20
Impact Socket	TX-Star E	E22	110 mm	MAN common-rail engines D20	5221-E22
Impact Socket	TX-Star E	E24	110 mm	MAN common-rail engines D20	5221-E24

Item	Profile	Drive	pcs	Art. No.
Impact Socket Set	bi-hexagon, TX-Star E	3/4"	6	5226

Impact Sockets for Cylinder Head Bolts

Item	Profile	Size	Drive	Length	Application	Art. No.
Impact Socket	bi-hexagon	17 mm	3/4"	110 mm	MB 400, 420, 500	5220-17
Impact Socket	bi-hexagon	19 mm	3/4"	110 mm	MB 300, 400, 900	5220-19
Impact Socket	TX-Star E	E18	3/4"	110 mm	MAN M2000, bus engines D08	5221-E18
Impact Socket	TX-Star E	E20	3/4"	110 mm	MAN F2000, F90, F8, bus engines D25, D28	5221-E20
Impact Socket	TX-Star E	E22	3/4"	110 mm	MAN common-rail engines D20	5221-E22
Impact Socket	TX-Star E	E24	3/4"	110 mm	MAN common-rail engines D20	5221-E24

Cylinder Head Socket Bit, Mercedes

Item	Profile	Size	Drive	OEM Comparison No.	Length	Application	Art. No.
Socket Bit	Spline	M17	1/2"	422589010900	60 mm	MB trucks	4779

Impact Sockets for Brake Calipers

Item	Profile	Size	Drive	Length	Application	Art. No.
Impact Socket	TX-Star E	E20	22 mm hex	40 mm	MAN TGA	5219-E20
Impact Socket	TX-Star E	E24	22 mm hex	40 mm	MAN TGA	5219-E24

Brake Piston Sockets

- to set back the piston control when replacing brake pads or working on the caliper
- 12 mm hexagon drive, with magnet
- for SAF, Knorr and other manufacturers

Item	Profile	Size	Drive	Art. No.
Brake Piston Socket	Square	8 mm	12 mm hex	5218-4
Brake Piston Socket	hexagon	8 mm	12 mm hex	5218-8
Brake Piston Socket	hexagon	10 mm	12 mm hex	5218-10

Slogging Ring Spanner, truck brake caliper, 3/4" square drive

- for brake caliper bolting on commercial vehicle front axles and trailing axles
- due to the design of the spanner, it is not necessary to dismantle the track rod lever
- for tightening the bolts with a torque spanner according to the manufacturer's specifications
- E18 / E20 suitable for: MAN TGL and TGM
- E24 suitable for: MAN TGA, TGS and TGX; MERCEDES-BENZ Atego 970-976 for vehicles with air suspension / brake caliper bolts on rear axle

Item	Profile	Size	Length	Application	Art. No.
Slogging Ring Spanner	TX-Star E	E18	210 mm	MAN TGL and TGM	5239-E18
Slogging Ring Spanner	TX-Star E	E20	210 mm	MAN TGL and TGM	5239-E20
Slogging Ring Spanner	TX-Star E	E24	215 mm	MAN TGA, TGS and TGX; MB Atego 970-976	5239-E24
Slogging Ring Spanner	hexagon	18 mm	215 mm		5237-18
Slogging Ring Spanner	hexagon	24 mm	215 mm		5237-24
Slogging Ring Spanner	hexagon	26 mm	220 mm		5237-26
Slogging Ring Spanner	hexagon	27 mm	220 mm		5237-27
Slogging Ring Spanner	hexagon	30 mm	220 mm		5237-30
Slogging Ring Spanner	bi-hexagon	24 mm	220 mm		5238-24
Slogging Ring Spanner	bi-hexagon	26 mm	220 mm		5238-26

Clutch Alignment Tool, 6 pcs.

- for quick and precise alignment and locking of the clutch plate
- for clutches with pilot bearing on vans and small trucks
- stepless adjustment of mandrels from ø 36-45 mm and ø 42-52 mm
- includes 4 adapters sleeves with ø 20, 25, 27 and 30 mm

Item	pcs	Art. No.
Clutch Alignment Tool	6	5492

Oil Filter Wrench for Trucks

- for loosening oil filters, fuel filters and compressed air dryer cartridges

Item	for Ø	Drive	Steel Belt Height	Art. No.
Oil Filter Wrench	105 - 125 mm	1/2"	75 mm	4240
Oil Filter Wrench	120 - 140 mm	1/2"	75 mm	4242

Oil Filter and Cartridge Wrench XXL

- for oil filters
- also for air dryer cartriges on commercial vehicles
- left and right hand drive for both loosening and tightening
- extra long arms, 60 mm length, with anti-slip profile
- heavy-duty construction, weight 1360 gr.

Item	for Ø	Drive	Art. No.
Oil Filter and Cartridge Wrench XXL	115-165 mm	1/2"	4253

Radiator Pressure Tester for Trucks

- comprehensive set with pressure pump with manometer (0 – 2.5 bar), pressure hose and seven radiator test caps for many popular trucks
- for testing leak tightness in radiators and other cooling systems
- for testing correct functioning of the pressure-relief valve at the sealing of the radiator or expansion tank
- pressure loss control through manometer on pressure pump

Content	Description	for Manufacturer	Art. No.
Pressure Pump with Manometer	0 - 2.5 bar		*5043-DP*
Pressure Hose	550 mm		*5043-SL*
Adapter No. 1		DAF, ERF	*5043-01*
Adapter No. 2		Scania	*5043-02*
Adapter No. 3		Volvo	*5043-03*
Adapter No. 4		Iveco, MAN, Renault	*5043-04*
Adapter No. 5		MAN	*5043-05*
Adapter No. 6		DAF, Iveco, MAN, MB, Volvo	*5043-06*
Adapter No. 7		MB	*5043-07*

Item	pcs	Art. No.
Radiator Pressure Tester for Trucks	9	5043

Dead Blow Bumping Hammer

- steel balls in hammer head prevent blow-back and ensure stronger impact
- ideal for loosening stuck rims when changing wheels
- heavy duty model, specially suitable for trucks and utility vehicles
- handle made from fiberglass with rubber-coated grip

Item	Head-Ø	Length	Head Weight	Art. No.
Dead Blow Hammer	105 mm	900 mm	5600 g	8242

Tire Levers, specialist shape for trucks

- for trucks, agricultural and construction machines
- specially rounded edges for material-preserving application

Item	Description	Length	Art. No.
Tire Lever	heavy duty, weight 1.25 kg	600 mm	8266
Tire Lever	heavy duty, weight 1.55 kg	750 mm	8267

4-Way Wheel Nut Wrench For Trucks, 30x32x33 mm x 3/4" sq. drive

Item	Size	Description	Length	Art. No.
4-Way Wheel Nut Wrench For Trucks	30x32x33 + 3/4"	material ø 19 mm	640 mm	5187

Motorcycle

Link Extractor and Riveter Tool for Motorbike Chains

- also suitable for scooters and quads
- for assembling new chains
- incl. instruction manual

Item	Description	Tolerance	Art. No.
Link Extractor and Riveter Tool for Motorbike Chains	tip-ø 2.2, 2.9, 3.8 mm	35 - 530	4374

Brake Caliper Piston Retraction Tool, for motorcycles

- also suitable for scooters and quads
- to set back brake pistons when replacing brake pads
- extra slim thrust plates, only 11 mm

Item	Description	Art. No.
Brake Caliper Piston Retraction Tool, for motorcycles	two-sided application	4581

Specialist Socket for Motorcycle Axle Shafts, 17 / 19 / 22 / 24 mm

- for disassembly and assembly of motorcycle axle shafts
- can be operated with 3/8" ratchet, 17/19 mm socket or spanner
- suitable for BMW, Buell, Honda, Kawasaki, Suzuki and Yamaha

Item	Size	Art. No.
Specialist Socket for Motorcycle Axle Shafts	17 / 19 / 22 / 24 mm	5104

Impact Socket Bits, for motorcycle axles

- required for axle disassembly
- manufactured from one solid piece, extremely robust quality

Item	Profile	Size	Drive	Length	Art. No.
Impact Socket Bit	Hexagon	22 mm	1/2"	53 mm	5105
Impact Socket Bit	Hexagon	24 mm	1/2"	53 mm	5106

Tire Valve Assembly Tool

- for bent valves
- ideal for hard to reach valves e.g. on scooter and motorcycle wheels
- adjustable supporting point to suit various rim widths
- protective coating on supporting point to avoid scratches to the rim
- for safe and powerful pulling out and installing of the valve

Item	Length	Application	Art. No.
Tire Valve Assembly Tool	230 mm	for steel valves	8219

Rim Protector, 2 pcs.

- for motorcycle and car wheels
- protects against scratches and other damage to the rim
- ideal when used in combination with tire lever
- with cord, for pulling out the protector when it slips between rim and wheel

Item	pcs	Art. No.
Rim Protector	2	8233

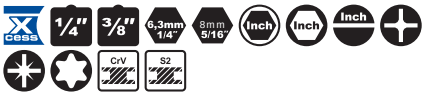
Rotor Puller Set, 10 pcs.

- suitable for e.g. Kawasaki, Honda, Suzuki, Bosch, Ducati etc.

Content	Size	Art. No.
Rotor Puller	M19x1.0	*5435-19*
Rotor Puller	M20x1.0 / M27x1.25	*5435-20*
Rotor Puller	M22x1.5 / M26x1.5	*5435-22*
Rotor Puller	M24x1.0 / M27x1.0-left	*5435-24*
Rotor Puller	M25x1.5 / M22x1.0	*5435-25*
Rotor Puller	M26x1.0 / M28x1.0	*5435-26*
Rotor Puller	M28x1.5	*5435-28*
Thrust Spindle	M14x1.5	*5435-S14*
Thrust Spindle	M16x1.5	*5435-S16*
Thrust Spindle	M18x1.5	*5435-S18*

Item	pcs	Art. No.
Rotor Puller Set	10	5435

Socket Set, 92 pcs., 1/4+3/8", hex inch 5/32-1"



Content		9/16"	*23Z-9-16*	5/16"	*16997-3*
Hexagon inch		5/8"	*23Z-5-8*	8 mm bit, 30 mm	
1/4", standard		11/16"	*23Z-11-16*	5/16"	*17997-1*
5/32"	14Z-5-32	3/4"	*23Z-3-4*	3/8"	*17997-2*
3/16"	14Z-3-16	Hexagon inch		Cross Slot PH	
7/32"	14Z-7-32	1/4" bit, 25 mm		1/4" bit, 25 mm	
1/4"	14Z-1-4	1/8"	*16882-5*	PH1	*16088-1*
9/32"	14Z-9-32	5/32"	*16882-7*	PH2	*16088-2*
5/16"	14Z-5-16	3/16"	*16882-8*	PH3	*16088-3*
11/32"	14Z-11-32	1/4"	*16882-10*	Cross Slot PZ	
3/8"	14Z-3-8	8 mm bit, 30 mm		1/4" bit, 25 mm	
7/16"	14Z-7-16	1/4"	*17882-1*	PZ1	*16099-1*
1/2"	14Z-1-2	9/32"	*17882-2*	PZ2	*16099-2*
1/4", deep		5/16"	*17882-3*	PZ3	*16099-3*
1/4"	24Z-1-4	3/8"	*17882-4*	Spark Plug Sockets	
5/16"	24Z-5-16	TX-Star T		3/8", standard	
3/8"	24Z-3-8	1/4" bit, 25 mm		5/8"	*209-5-8*
7/16"	24Z-7-16	T10	16033-10	3/4"	*209-3-4*
1/2"	24Z-1-2	T15	16033-15	13/16"	*209-13-16*
3/8", standard		T20	16033-20	Spanners	
1/2"	*13Z-1-2*	T25	16033-25	Combination Spanner	
9/16"	*13Z-9-16*	T30	16033-30	1/4"	*21Z-1-4*
19/32"	*13Z-19-32*	T40	16033-40	5/16"	*21Z-5-16*
5/8"	*13Z-5-8*	8 mm bit, 30 mm		3/8"	*21Z-3-8*
11/16"	*13Z-11-16*	T40	17033-40	7/16"	*21Z-7-16*
3/4"	*13Z-3-4*	T45	17033-45	1/2"	*21Z-1-2*
25/32"	*13Z-25-32*	T50	17033-50	9/16"	*21Z-9-16*
13/16"	*13Z-13-16*	T55	17033-55	5/8"	*21Z-5-8*
7/8"	*13Z-7-8*	Plain Slot inch		11/16"	*21Z-11-16*
15/16"	*13Z-15-16*	1/4" bit, 25 mm		3/4"	*21Z-3-4*
1"	*13Z1-1*	5/32"	*16997-1*		
3/8", deep		1/4"	*16997-2*		

Item	Size	Drive	pcs	Art. No.
Socket Set	5/32-1"	1/4+3/8"	92	2172

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 140 mm	1215-1
Extension Bar, 1/4", 75 mm	21103
Sliding T-Bar, 1/4", 115 mm	21120
Spinner Handle, 1/4", 150 mm	21117
Bit Holder, 1/4", for 1/4" bits	20624
Universal Joint, 1/4"	21125
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 200 mm	1215-2
Extension Bar, 3/8", 75 mm	21500
Extension Bar, 3/8", 150 mm	21505
Bit Holder, 3/8", for 8 mm bits	20623
Socket Converter, 3/8" F x 1/4" M	20602
Universal Joint, 3/8"	21525
Miscellaneous Tools	
Hex Key Set, 9 pcs., 1/16-3/8"	*2172WKS*

Electrics

Multi-Function Circuit Tester

- for testing circuits on cars, trucks and motorcycles
- large lit up display for easy reading
- convenient troubleshooting by applying positive or negative potential
- max current: 5 ampere
- fuse with automatic resetting
- 2 different coloured LED show potential
- ideal for testing thermo switches, wiper motors, trailer couplings, fuel pumps etc. in built-in condition
- for frequency measurements up to 1000 Hz
- integrated continuity tester with optical indicator
- convenient design for single-hand operation
- bright LED for good illumination of work space
- 6 adjustable voltage values (0.5 / 1.0 / 2.0 / 5.0 / 10 and 48V)
- audible warning signal when threshold is exceeded
- push button for selecting measuring options
- content:
  1 probe
  6 meter power cord
  6 meter extension cord with reverse polarity protection for applications on trucks and trailers
  1 voltage adapter with reverse polarity protection for connecting to board socket (cigarette light)
  1 voltage adapter with reverse polarity protection for connecting to automotive battery
  1 specialist tip for measuring on deep seated contacts

Item	Measuring Range	Description	Art. No.
Multi-Function Circuit Tester	12-48 V	with LCD display	3589

Multi-Function Circuit Tester

- for testing circuits on cars, trucks and motorcycles
- convenient troubleshooting by applying positive or negative potential
- max current: 5 ampere
- fuse with automatic resetting
- 2 different coloured LED show potential
- ideal for testing thermo switches, wiper motors, trailer couplings, fuel pumps etc. in built-in condition
- integrated continuity tester with optical indicator
- also suitable as diode tester
- convenient design for single-hand operation
- bright LED for good illumination of work space
- content:
  1 probe
  6 meter power cord
  6 meter extension cord with reverse polarity protection for applications on trucks and trailers
  1 voltage adapter with reverse polarity protection for connecting to board socket (cigarette light)
  1 voltage adapter with reverse polarity protection for connecting to automotive battery
  1 specialist tip for measuring on deep seated contacts

Item	Measuring Range	Description	Art. No.
Multi-Function Circuit Tester	6 / 12 / 24 V	with LED display	3588

Connector Disassembly Tool, Audi / VW / Porsche

- for quick and correct disconnection of electric connectors, e.g. airflow sensors, pressure sensors, headlamps, fog lamps, fluid level sensors and ignition coils
- suitable for Audi, Seat, Skoda, Porsche and VW

Item	for Manufacturer	Art. No.
Connector Disassembly Tool	Audi, Seat, Skoda, Porsche, VW	3534

Terminal Release Tool Set, 23 pcs.

- for safe terminal releasing
- avoids damage to contact and housing
- tool forks press the barbed hooks into connecting terminals, so that cable with plug can be removed
- universal assortment, suitable for all popular contact systems

Content		Terminal Release, needle type		BMW, Ford, MB, Opel, Porsche, VW	*5023-03*
Terminal Release, round type		diverse	*5023-07*	Ford	*5023-04*
BMW, MB, Opel, Porsche, VW	*5023-10*	Ford, MB	*5023-08*	Opel, VW	*5023-05*
BMW, Jag., MB, Porsche, VW	*5023-11*	Ford, MB	*5023-09*	diverse	*5023-06*
BMW, MB, Opel, VW	*5023-12*	Ford, Jag., MB, Opel, Porsche, VW	*5023-16*	Ford	*5023-14*
Terminal Release, hook type		diverse	*5023-19*	BMW, Ford, MB, Opel, VW	*5023-15*
Ford, Porsche, Jag.	*5023-13*	MB	*5023-21*	BMW	*5023-17*
Honda, Opel, Toyota, VW	*5023-23*	Terminal Release, fork type		MB	*5023-18*
		diverse	*5023-01*	diverse	*5023-20*
		MB	*5023-02*	Opel, Renault, VW	*5023-22*

Item	pcs	Art. No.
Terminal Release Tool Set	23	37223

Terminal Release Tool Set, 23 pcs.

- for safe terminal releasing
- avoids damage to contact and housing
- tool forks press the barbed hooks into connecting terminals, so that cable with plug can be removed
- universal assortment, suitable for all popular contact systems

Item	pcs	Art. No.
Terminal Release Tool Set	23	5023

Terminal Release Tool Set, 12 pcs.

- for safe terminal releasing
- avoids damage to contact and housing
- tool forks press the barbed hooks into connecting terminals, so that cable with plug can be removed
- suitable for many common applications on vehicles

Content	for Manufacturer	Art. No.
Terminal Tool, round type	Audi, BMW, Chrysler, Fiat, Mercedes, Opel, Porsche, Seat, Skoda, Volkswagen	*5012-01*
Terminal Tool, round type	Audi, BMW, Fiat, Mercedes, Opel, Porsche, Seat, Skoda, Volkswagen	*5012-02*
Terminal Tool, round type	Citroen, Ford, Opel, Peugeot, Renault	*5012-05*
Terminal Tool, needle type	universal	*5012-53*
Terminal Tool, fork type	Audi, Chrysler, Citroen, Mercedes, Opel, Peugeot, Porsche, Renault, Saab, Seat, Skoda, VW	5012-56
Terminal Tool, fork type	Audi, Chrysler, Mercedes, Seat, Skoda, VW	*5012-59*
Terminal Tool, fork type	universal	*5012-62*
Terminal Tool, needle type	Audi, Citroen, Fiat, Ford, Mazda, Opel, Peugeot, Renault, Saab, Volkswagen	*5012-74*
Terminal Tool, fork type	universal	5012-91
Sleeve for 5012-01		*5012-11*
Sleeve for 5012-02		*5012-12*
Sleeve for 5012-05		*5012-15*

Item	pcs	Art. No.
Terminal Release Tool Set	12	5012

Terminal Release Tools, fork type

- for safe terminal releasing
- avoids damage to contact and housing
- tool forks press the barbed hooks into connecting terminals, so that cable with plug can be removed
- suitable for many common applications on vehicles

Item	for Manufacturer	Art. No.
Terminal Tool, fork type	Audi, Chrysler, Citroen, Mercedes, Opel, Peugeot, Porsche, Renault, Saab, Seat, Skoda, VW	5012-56
Terminal Tool, fork type	universal	5012-91

Inspection Cable Set, 92 pcs.

Content	Length	Colour	Size	Art. No.
Probe Tip with Flexible Contact	130 mm	red		*3580-01R*
Probe Tip with Flexible Contact	130 mm	black		*3580-01S*
Extension Cable with Flexible Contact	1100 mm	red		3580-02R
Extension Cable with Flexible Contact	1100 mm	black		3580-02S
Probe Tip with Needlepoint	230 mm	red	0.7 mm	3580-03R
Probe Tip with Needlepoint	230 mm	black	0.7 mm	3580-03S
Alligator Clamp	85 mm	red		*3580-04R*
Alligator Clamp	85 mm	black		*3580-04S*
Testing Resistance, for SRS plugs	50 mm	yellow		*3580-05*
Potentiometer, stepless, 5K-Ohm	135 mm			*3580-06*
Checking Device cable, with LED	115 mm			*3580-07*
H-Bridge, 2 in 1	50 mm	black		*3580-08*
Male Roundconnector Check Device Cable	195 mm	yellow	1.6 mm	*3580-09AR16*
Male Roundconnector Check Device Cable	195 mm	red	2.5 mm	*3580-09AR25*
Male Roundconnector Check Device Cable	195 mm	black	3.5 mm	*3580-09AR35*
Male Roundconnector Check Device Cable	195 mm	blue	3.9 mm	*3580-09AR39*
Female Roundconnector Check Cable	195 mm	yellow	1.6 mm	*3580-09IR16*
Female Roundconnector Check Cable	195 mm	red	2.5 mm	*3580-09IR25*
Female Roundconnector Check Cable	195 mm	black	3.5 mm	*3580-09IR35*
Female Roundconnector Check Cable	195 mm	blue	3.9 mm	*3580-09IR39*
Male Flatconnector Check Device Cable	195 mm	yellow	0.6x0.6 mm	*3580-10AF06*
Male Flatconnector Check Device Cable	195 mm	red	0.6x0.9 mm	*3580-10AF09*
Male Flatconnector Check Device Cable	195 mm	black	0.6x1.3 mm	*3580-10AF13*
Male Flatconnector Check Device Cable	200 mm	blue	0.6x1.9 mm	*3580-10AF19*
Male Flatconnector Check Device Cable	200 mm	yellow	0.6x2.3 mm	*3580-10AF23*
Male Flatconnector Check Device Cable	200 mm	red	0.8x2.8 mm	*3580-10AF28*
Male Flatconnector Check Device Cable	200 mm	black	0.8x4.7 mm	*3580-10AF47*
Male Flatconnector Check Device Cable	200 mm	blue	0.8x6.0 mm	*3580-10AF63*
Female Flatconnector Check Device Cable	190 mm	yellow	0.6x0.6 mm	*3580-10IF06*
Female Flatconnector Check Device Cable	190 mm	red	0.6x0.9 mm	*3580-10IF09*
Female Flatconnector Check Device Cable	190 mm	black	0.6x1.3 mm	*3580-10IF13*
Female Flatconnector Check Device Cable	190 mm	blue	0.6x1.9 mm	*3580-10IF19*
Female Flatconnector Check Device Cable	190 mm	yellow	0.6x2.3 mm	*3580-10IF23*
Female Flatconnector Check Device Cable	190 mm	red	0.8x2.8 mm	*3580-10IF28*
Female Flatconnector Check Device Cable	190 mm	black	0.8x4.7 mm	*3580-10IF47*
Female Flatconnector Check Device Cable	190 mm	blue	0.8x6.0 mm	*3580-10IF63*

3580/02R

3580/03R

- with pre-assembled connectors
- allows measurement directly on contacts of compact connectors
- for troubleshooting on electric consumer circuits and other operations on car electrics
- extension to measuring equipment like e.g. multimeters, multimeterclams etc.

Item	pcs	Art. No.
Inspection Cable Set	92	3580

Inspection Cable Set, 15 pcs.

- to be used with multimeters, test lamps etc.
- content:
  4 connection cables (500 + 1000 mm, red / black), 1 cable injection needle, 2 LED checking device cables (2-colour for polarity display), 4 probe tips with needlepoint (red / black), 2 probe tips with flexible contact (red / black), 2 alligator clips (red / black)

Item	pcs	Art. No.
Inspection Cable Set	15	3581

Extension Cables with Flexible Contact

Item	Length	Colour	Art. No.
Extension Cable with Flexible Contact	1100 mm	red	3580-02R
Extension Cable with Flexible Contact	1100 mm	black	3580-02S

Probe Tips with Needlepoint

Item	Size	Length	Colour	Art. No.
Probe Tip with Needlepoint	0.7 mm	230 mm	red	3580-03R
Probe Tip with Needlepoint	0.7 mm	230 mm	black	3580-03S

Cable Injection Needle

- with spring-loaded needlepoint
- for direct measurement on insulated cables

Item	Art. No.
Cable Injection Needle	3582

Test Cable Tip Assortment, 16 pcs.

- for direct connection of test cables with contact plugs
- 4x female flatconnector, 4x male flatconnector, 3x female roundconnector, 3x male roundconnector, 1x needlepoint and 1x flexible tip

Item	pcs	Art. No.
Test Cable Tip Assortment	16	3585

Mains Tester

- with metal clip

Item	Measuring Range	Length	Art. No.
Mains Tester	120 - 250 V	140 mm	570

Voltage Tester

- for error search on components in automotive electrics
- 2 LEDs for display of tension and polarity (plus/minus)
- with test tip, needle and alligator clip

Item	Measuring Range	Art. No.
Voltage Tester	3 - 48 V	3587

Car Electric Circuit Tester

580

- with fixed cable and alligator clip
- for simple testing jobs on automotive electrics

Item	Measuring Range	Length	Material	Art. No.
Car Electric Circuit Tester	6 - 24 V	140 mm	plastic	580
Car Electric Circuit Tester	6 - 24 V	110 mm	metal with needle	585

585

Digital Car Current Tester, for 12V / 24V systems

- for direct current measurements in the fuse box
- e.g. for identifying quiescent currents
- suitable for cars, trucks and motorbikes

Item	Application	Art. No.
Digital Car Current Tester	MINI (FK1) and MIDI (FK2 / ATO) fuses	3591

Voltage Tester for Automotive Fuses

- for performance tests directly on installed fuses, results shown through LED
- with adjustable probe tips
- with integrated fuse grabber

Item	Application	Art. No.
Voltage Tester for Automotive Fuses	MINI (FK1), MIDI (ATO / FK2) and MAXI (FK3)	3595

3596-2

Relay Pliers

- for convenient removal and installation of automotive relays, avoids damage
- suitable for most relays
- ideal for narrowly fitted relays
- spring-loaded design for easy operation
- solid glass fibre reinforced material

Item	Description	Art. No.
Relay Pliers	straight type	3596-1
Relay Pliers	bent type	3596-2

Specialist Pliers, for bulbs

- for installing and removing bulbs with glas base

Item	Description	Art. No.
Specialist Pliers, for bulbs with glas base	with rubber-coated tips	5720

Headlight Adjusting Spanner, Audi / VW

- spline profile and centre tip for precise guidance
- extra long version, 300 mm blade length
- to prevent damage to the headlight adjustment
- also for bumper and bonnet gap adjustment
- T-handle with hanging hole
- for use with: Audi A4 (8K), A5 (8T) and A6 (4G), VW Passat (B8) and Touareg (7P)

Item	OEM Comparison No.	Length	Art. No.
Headlight Adjusting Spanner	T40281	300 mm	5966

Headlight Adjusting Key, Mercedes

- 14 mm hexagon socket, 3/8" sq. drive
- slim design for confined spaces, 195 mm long
- to avoid damage to the headlight adjustment
- also for gap adjustment of bumper and bonnet
- suitable for: Mercedes 205 (C-Class built from 2014 onwards), also in Audi A7

Item	Drive	Description	Length	Art. No.
Headlight Adjusting Spanner	3/8"	14 mm hexagon socket	195 mm	5968

Disassembly Tool for Automotive Light Covers

- universally suitable for lights fixed with clips (not for screw connections)
- with plastic probe, for locating the exact position of clips

Content	Description	Length	Art. No.
Removal Lever	straight type	320 mm	*3732-01*
Removal Lever	offset	120x220 mm	*3732-02*

Item	pcs	Art. No.
Disassembly Tool for Automotive Light Covers	2	3732

Battery Lifter

- for lifting and carrying automotive batteries
- rubber-coated jaw for better grip
- adjustable width, 110-180 mm

Item	Art. No.
Battery Lifter	3715

T-Handle Battery Plug Key

- specialist cross slot with 1.3 mm thickness
- ideal when filling batteries with acid
- for screwing plugs in and out of batteries without causing damage
- also suitable for venting screws e.g. on BMW

Item	Art. No.
T-Handle Battery Plug Key	3711

Battery Brush

- for removing corrosion and dirt from battery terminals
- with protection cap

Item	Application	Art. No.
Battery Brush	for internal and external cleaning	406

Battery Terminals

- made from brass
- lead plated
- suitable for all batteries with round terminals

Item	Quantity	Art. No.
Battery Terminals	2 pcs.	3710

Battery Adapter

- for disconnecting the battery when vehicle is taken out of service for certain length of time
- ideal for oldtimers and seasonal vehicles
- also suitable for agricultural machines like e.g. harvesters

Item	Application	Art. No.
Battery Adapter	battery disconnection without needing tools	3712

Ratchet Crimping Pliers

- with 5 interchangeable jaw pairs
- crimping pliers with adjustable pressure, length 215 mm
- with ergonomic, 2-component handles
- with ratchet function for more convenient crimping
- with forced locking for secure pressing to form closure

Content	Description	Art. No.
Ratchet Crimping Pliers	with ratchet function and crush guard	*3049-Z*
Crimping Jaws	for insulated terminals ø 0.5 - 6.0 mm	*3049-A*
Crimping Jaws	for non-insulated terminals ø 0.5 - 10.0 mm	*3049-B*
Crimping Jaws	for non-insulated terminals with open crimp grip ø 0.5 - 6.0 mm (width 4.8 + 6.3 mm)	*3049-C*
Crimping Jaws	for BNC / TNC coaxial plugs RG 58, RG 59, RG 62E, RG 71	*3049-D*
Crimping Jaws	for pin terminals with and without insulation ø 0.5 - 4.0 mm	*3049-E*

Item	Art. No.
Ratchet Crimping Pliers	3049

Ratchet Crimping Pliers

- with ratchet lever transmission and crush guard

Item	Length	Application	Art. No.
Ratchet Crimping Pliers	215 mm	non-insulated terminals 0.5 - 6 mm²	3045

Crimping Pliers, hex crimp profile

- rotatable and lockable crimp jaws for 6, 10, 16, 25, 35, 50 mm²
- for crimping aluminum or copper wire end ferrules, cable lugs, parallel connectors, series connectors and butt connectors
- ideal for tubular cable lugs with M6, M8 and M10, e.g. for contact terminal strips
- 250 mm lever length for easy, powerful working
- anti-slip handles with finger recesses for safe handling

Item	Length	Application	Art. No.
Crimping Pliers	390 mm	for copper and aluminum cable lugs from 6 - 50 mm²	3044

Crimping Pliers

- with wire cutter and stripper
- screw cutter with thread

3010

3010EX

3020

3030

3030EX

Item	Description	Length	Application	Art. No.
Crimping Pliers	plastic handle	205 mm	insulated terminals ø 1.5, 2.5, 6 mm	3010
Crimping Pliers	extra strong plastic handle	215 mm	insulated terminals ø 1.5, 2.5, 6 mm	3010EX
Crimping Pliers	plastic handle	205 mm	non-insulated terminals ø 1.5, 2.5, 6 mm	3020
Crimping Pliers	plastic handle	220 mm	insulated and non-insulated terminals ø 1.5, 2.5, 4.6 mm	3030
Crimping Pliers	extra strong plastic handle	235 mm	insulated and non-insulated terminals ø 1.5, 2.5, 4.6 mm	3030EX

Ratchet Crimping Pliers

- with ratchet lever transmission and forced lock

Item	Length	Application	Art. No.
Ratchet Crimping Pliers	250 mm	insulated terminals 0.25 - 6.0 mm²	3041

Crimping Pliers, cable end sleeves 0.5-2.5 mm², 150 sleeves

- for solderless pressing of cable end sleeves
- for 0.5, 0.75, 1.0, 1.5, 2.5, 4.0, 6.0, 10.0 and 16.0 mm² sleeves
- handles dip-insulated
- including 150 pcs. zinc plated cable end sleeves (0.5x6, 0.75x6, 1.0x6, 1.5x7, 2.5x7)

Item	Length	Application	Art. No.
Crimping Pliers, cable end sleeves	160 mm	cable end sleeves 0.5 - 16.0 mm²	3051

Wire Knife

- with hook blade and reversible inner knife

Item	Application	Art. No.
Wire Knife	for cables ø 8 - 28 mm	775

Wire Stripping Tools

- for stripping cables without damaging the conductors
- easy and practical handling

Item	Wire Cross Section	Art. No.
Wire Stripping Tool	0.2 - 0.8 mm²	3060-1
Wire Stripping Tool	0.8 - 2.6 mm²	3060-2

Automatic Wire Stripper

- with wire cutter
- also for pressing insulated and non-insulated terminals and spark plug connectors

Item	Description	Length	Art. No.
Automatic Wire Stripper	for wires ø 0.13 - 6.0 mm²	210 mm	289

Automatic Wire Stripper

- with adjustable stop for smooth stripping

Item	Wire Cross Section	Art. No.
Automatic Wire Stripper	0.5 - 2.0 mm²	169A
Automatic Wire Stripper	1.0 - 3.2 mm²	169B

Soldering Aid Pliers

- for secure holding of cable ends during soldering
- adjustable plier with locking mechanism

Item	Description	Art. No.
Soldering Aid Pliers	with rubber-coated tips	3052

Crimping Tool Kit

- 60 assorted terminals
- with plier No. 3010

Item	pcs	Art. No.
Crimping Tool Kit	61	3115

Crimping and Wire Stripping Kit, 48 pcs.

- 1 wire stripper
- 1 crimping plier
- 1 tape
- 45 solderless terminals

Item	pcs	Art. No.
Crimping and Wire Stripping Kit	48	3154

Heat Shrink Tubing Assortment, black, 127 pcs.

- protects cables from the effects of weather and corrosion
- suitable for temperatures up to 125° C
- for cables with max. 600 V
- shrink ratio 2:1
- content: 30x 2x40 mm, 25x 2.5x40 mm, 20x 3.5x40 mm, 20x 5x40 mm, 16x 7x80 mm, 8x 10x80 mm, 8x 13x85 mm

Item	pcs	Art. No.
Heat Shrink Tubing Assortment	127	9197

Heat Shrink Tubing Assortment, coloured, 100 pcs.

- protects cables from the effects of weather and corrosion
- suitable for temperatures up to 125° C
- for cables with max. 600 V
- shrink ratio 2:1
- content: 30x 1.5x100 mm, 30x 2.5x100 mm, 20x 4x100 mm, 10x 6x100 mm, 6x 10x100 mm, 4x 13x100 mm

Item	pcs	Art. No.
Heat Shrink Tubing Assortment	100	9198

Quick Action Branch Connector Set, 50 pcs.

- for setting up branch connections
- ideal when upgrading for e.g. trailer couplings, additional headlamps etc.
- 25 connectors for cables with 0.5 – 1.5 mm² cross-section
  25 connectors for cables with 1.5 – 2.5 mm² cross-section

Item	pcs	Art. No.
Quick Action Branch Connector Set	50	9195

Electrical Clip Assortment, 28 pcs.

- zinc plated
- insulated clips with red and black insulation for easier identification of +/- during application
- non-insulated clips for various applications

Item	pcs	Art. No.
Electrical Clip Assortment	28	9196

Terminal Assortment, 200 pcs.

Item	Description	pcs	Art. No.
Terminal Assortment	assorted terminals	200	3160

Terminal Assortment, 100 pcs.

Item	Description	pcs	Art. No.
Terminal Assortment	assorted terminals	100	3180

Consumables

Hose Clamp Assortment

- W2, stainless steel
- supplied in handy metal stand, suitable for wall fastening
- 110 hose clamps, each size 10 pcs.

Content	Spread	Band Width	Material	Quantity	Art. No.
Hose Clamps	8-12 mm	9 mm	W2	10 pcs.	9301-012
Hose Clamps	10-16 mm	9 mm	W2	10 pcs.	9301-016
Hose Clamps	12-20 mm	9 mm	W2	10 pcs.	9301-020
Hose Clamps	16-25 mm	9 mm	W2	10 pcs.	9301-025
Hose Clamps	20-32 mm	9 mm	W2	10 pcs.	9301-032
Hose Clamps	25-40 mm	9 mm	W2	10 pcs.	9301-040
Hose Clamps	30-45 mm	9 mm	W2	10 pcs.	9301-045
Hose Clamps	32-50 mm	9 mm	W2	10 pcs.	9301-050
Hose Clamps	40-60 mm	9 mm	W2	10 pcs.	9301-060
Hose Clamps	50-70 mm	12 mm	W2	10 pcs.	9302-070
Hose Clamps	60-80 mm	12 mm	W2	10 pcs.	9302-080

Item	Description	pcs	Art. No.
Hose Clamp Assortment	incl. hose clamp screw driver	112	9300

Hose Clamps, W2

- stainless steel
- quantity: 10 pcs.

W2		40-60 mm	9301-060	70-90 mm	9302-090
band width 9 mm		band width 12 mm		80-100 mm	9302-100
8-12 mm	9301-012	16-27 mm	9302-027	90-110 mm	9302-110
10-16 mm	9301-016	20-32 mm	9302-032	100-120 mm	9302-120
12-20 mm	9301-020	25-40 mm	9302-040	110-130 mm	9302-130
16-25 mm	9301-025	30-45 mm	9302-045	120-140 mm	9302-140
20-32 mm	9301-032	32-50 mm	9302-050	130-150 mm	9302-150
25-40 mm	9301-040	40-60 mm	9302-060	140-160 mm	9302-160
30-45 mm	9301-045	50-70 mm	9302-070	150-170 mm	9302-170
32-50 mm	9301-050	60-80 mm	9302-080	160-180 mm	9302-180

Hose Clamps, W4

- stainless steel
- quantity: 10 pcs.

W4		40-60 mm	9304-060	110-130 mm	9304-130
band width 12 mm		50-70 mm	9304-070	120-140 mm	9304-140
16-27 mm	9304-027	60-80 mm	9304-080	130-150 mm	9304-150
20-32 mm	9304-032	70-90 mm	9304-090	140-160 mm	9304-160
25-40 mm	9304-040	80-100 mm	9304-100	150-170 mm	9304-170
30-45 mm	9304-045	90-110 mm	9304-110	160-180 mm	9304-180
32-50 mm	9304-050	100-120 mm	9304-120		

Ear Clamps, W4

- stainless steel

Item	Spread	Band Width	Material	Quantity	Art. No.
Ear Clamps	8.8-10.5 mm	5 mm	W4	10 pcs.	9314-105
Ear Clamps	9.6-11.3 mm	5 mm	W4	10 pcs.	9314-113
Ear Clamps	10.8-13.3 mm	7 mm	W4	10 pcs.	9314-133
Ear Clamps	12.8-15.3 mm	7 mm	W4	10 pcs.	9314-153
Ear Clamps	16.0-18.5 mm	7 mm	W4	10 pcs.	9314-185

Adjustable Ear Clamps, W2

- stainless steel

Item	Spread	Band Width	Material	Quantity	Art. No.
Adjustable Ear Clamps	22-30 mm	7 mm	W2	10 pcs.	9322-030
Adjustable Ear Clamps	27-35 mm	7 mm	W2	10 pcs.	9322-035
Adjustable Ear Clamps	32-40 mm	7 mm	W2	10 pcs.	9322-040
Adjustable Ear Clamps	37-45 mm	7 mm	W2	10 pcs.	9322-045
Adjustable Ear Clamps	42-50 mm	7 mm	W2	10 pcs.	9322-050
Adjustable Ear Clamps	84-92 mm	7 mm	W2	10 pcs.	9322-092
Adjustable Ear Clamps	90-98 mm	7 mm	W2	10 pcs.	9322-098

Adjustable Ear Clamps, W4

- stainless steel

Item	Spread	Band Width	Material	Quantity	Art. No.
Adjustable Ear Clamps	22-30 mm	7 mm	W4	10 pcs.	9324-030
Adjustable Ear Clamps	27-35 mm	7 mm	W4	10 pcs.	9324-035
Adjustable Ear Clamps	32-40 mm	7 mm	W4	10 pcs.	9324-040
Adjustable Ear Clamps	37-45 mm	7 mm	W4	10 pcs.	9324-045
Adjustable Ear Clamps	42-50 mm	7 mm	W4	10 pcs.	9324-050
Adjustable Ear Clamps	84-92 mm	7 mm	W4	10 pcs.	9324-092
Adjustable Ear Clamps	90-98 mm	7 mm	W4	10 pcs.	9324-098

Hose Clamp Assortment, 26 pcs.

- zinc plated
- 8 pcs. ø 16 mm
  6 pcs. ø 22 mm
  4 pcs. ø 25 mm
  2 pcs. ø 28 mm
  2 pcs. ø 35 mm
  4 pcs. ø 40 mm

Item	Ø	pcs	Art. No.
Hose Clamp Assortment	16-40 mm	26	9140

Hose Connector Assortment, 105 pcs.

- for connecting e.g. vacuum hose or return lines
- manufactured from POM (polyoxymethylen)
- incl. 4 mm for wiper water pipes
- fuel and oil resistant
- content:
  32 pcs. T-shape: 10x 3 mm, 5x 4 mm, 5x 5 mm, 5x 6 mm, 5x 8 mm, 2x 10 mm
  53 pcs. I-shape: 10x 3 mm, 10x 4 mm, 10x 5 mm, 10x 6 mm, 10x 8 mm, 3x 10 mm
  20 pcs. Y-shape: 10x 3 mm, 2x 4 mm, 2x 5 mm, 2x 6 mm, 2x 8 mm, 2x 10 mm

Item	Material	pcs	Art. No.
Hose Connector Assortment	POM (polyoxymethylen)	105	9145

Grease Nipple Assortment, 110 pcs., 9 sizes

- chrome plated
- M6 x 1.0
- M8 x 1.0
- M10 x 1.0

Item	Description	pcs	Art. No.
Grease Nipple Assortment	straight, 45°, 90°	110	9030

O-Ring Assortment, 225 pcs., inner-ø 3-22 mm

- oil, fuel and acid resistant
- 18 popular sizes (inner-ø x thickness):
  20 pcs. 3x1 mm, 20 pcs. 4x1 mm, 20 pcs. 4.5x2 mm, 20 pcs. 5x2 mm,
  20 pcs. 6x2 mm, 20 pcs. 6x2.5 mm, 20 pcs. 6x3 mm, 20 pcs. 7x2 mm,
  20 pcs. 8x2 mm, 5 pcs. 9x2 mm, 5 pcs. 10x2 mm, 5 pcs. 12x3 mm,
  5 pcs. 13x3 mm, 5 pcs. 14x2.5 mm, 5 pcs. 17x2.5 mm, 5 pcs. 18x4 mm,
  5 pcs. 20x2 mm, 5 pcs. 22x2 mm

Item	Description	Inner-Ø	pcs	Art. No.
O-Ring Assortment	18 sizes	3 - 22 mm	225	1580-225

O-Ring Assortment, 419 pcs., inner-ø 3-50 mm

- oil, fuel and acid resistant
- 32 popular sizes (inner-ø x thickness):
  20 pcs. 3x1.5 mm, 20 pcs. 4.4x2 mm, 18 pcs. 5x2 mm, 23 pcs. 7x1.5 mm,
  23 pcs. 10x1.5 mm, 23 pcs. 13x1.5 mm, 14 pcs. 10x2.5 mm, 13 pcs. 11x2.5 mm,
  14 pcs. 13x2.5 mm, 13 pcs. 14x2.5 mm, 14 pcs. 16x2.5 mm, 14 pcs. 18x2.5 mm,
  13 pcs. 19x2.5 mm, 14 pcs. 21x2.5 mm, 13 pcs. 22x2.5 mm, 10 pcs. 18x3.5 mm,
  10 pcs. 20x3.5 mm, 10 pcs. 22x3.5 mm, 10 pcs. 23.5x3.5 mm, 10 pcs. 25x3.5 mm,
  10 pcs. 26.5x3.5 mm, 10 pcs. 28x3.5 mm, 10 pcs. 30x3.5 mm, 10 pcs. 31x3.5 mm,
  10 pcs. 33x3.5 mm, 10 pcs. 34.5x3.5 mm, 10 pcs. 36x3.5 mm, 10 pcs. 38x3.5 mm,
  10 pcs. 41x3.5 mm, 10 pcs. 44x3.5 mm, 10 pcs. 47x3.5 mm, 10 pcs. 50x3.5 mm

Item	Description	Inner-Ø	pcs	Art. No.
O-Ring Assortment	32 sizes	3 - 50 mm	419	1580-419

HNBR O-Ring Assortment, 265 pcs., 18 sizes

- specially for repairs on automotive air conditioning systems
- 18 popular sizes (inner-ø x thickness):
  30 pcs. 4.47 x 1.78 mm, 30 pcs. 6.07 x 1.78 mm, 30 pcs. 6.80 x 1.90 mm,
  30 pcs. 7.65 x 1.78 mm, 20 pcs. 8.00 x 2.00 mm, 20 pcs. 8.80 x 1.90 mm,
  20 pcs. 9.19 x 2.62 mm, 20 pcs. 9.25 x 1.78 mm, 10 pcs. 10.00 x 2.00 mm,
  10 pcs. 10.77 x 2.62 mm, 10 pcs. 10.82 x 1.78 mm, 5 pcs. 12.37 x 2.62 mm,
  5 pcs. 14.00 x 2.50 mm, 5 pcs. 15.54 x 2.62 mm, 5 pcs. 17.17 x 1.78 mm,
  5 pcs. 18.72 x 2.62 mm, 5 pcs. 20.22 x 3.53 mm, 5 pcs. 21.89 x 2.62 mm

Item	pcs	Art. No.
HNBR O-Ring Assortment	265	9150

Gasket Assortment, 141 pcs.

- assorted gaskets made of rubber and fiber
- ideal for sanitary applications
- rubber (black):
  10 pcs. 1/2" x 16 mm, 10 pcs. 1/2" x 17 mm, 10 pcs. 3/4"-15 x 24 mm, 10 pcs. 3/4"-11 x 24 x 2 mm, 5 pcs. 3/8" x 8 mm, 5 pcs. 3/8" x 10 mm, 5 pcs. 1/2"-9 x 19 mm, 5 pcs. 1/2" x 10 mm
- fiber (red):
  10 pcs. 21 x 17 mm, 10 pcs. 3/8", 10 pcs. 3/8" x 8 mm, 10 pcs. 1/2", 10 pcs. 1/2"-12 x 18 mm, 10 pcs. 3/4"-16 x 24 mm, 10 pcs. 3/4", 5 pcs. 1", 3 pcs. 1.1/4"-30 x 39 mm, 3 pcs. 1.1/2"-27 x 38 mm

Item	Material	pcs	Art. No.
Gasket Assortment	rubber / fiber	141	9180

Copper Seal Ring Assortment, 150 pcs., 19 sizes

- 19 popular sizes (inner-ø x outer-ø x thickness):
  10 pcs. 4x8x1.0 mm, 10 pcs. 6x10x1.0 mm, 10 pcs. 6x12x1.0 mm,
  10 pcs. 8x12x1.0 mm, 10 pcs. 8x14x1.0 mm, 10 pcs. 10x14x1.0 mm,
  10 pcs. 10x16x1.0 mm, 5 pcs. 12x16x1.5 mm, 5 pcs. 12x18x1.5 mm,
  10 pcs. 14x18x1.5 mm, 5 pcs. 14x20x1.5 mm, 10 pcs. 16x20x1.5 mm,
  5 pcs. 16x22x1.5 mm, 5 pcs. 18x22x1.5 mm, 5 pcs. 18x24x1.5 mm,
  10 pcs. 20x26x1.5 mm, 10 pcs. 22x27x1.5 mm, 5 pcs. 24x30x1.5 mm,
  5 pcs. 24x30x2.0 mm

Item	Description	pcs	Art. No.
Copper Seal Ring Assortment	15 sizes	150	9000

Copper Seal Ring Assortment, 390 pcs., 30 sizes

- specially for oil drain plugs
- universal assortment with 30 different sizes (inner-ø x outer-ø x thickness):
  20 pcs. 4x8x1.0 mm, 20 pcs. 5x9x1.0 mm, 20 pcs. 6x10x1.0 mm,
  20 pcs. 6x12x1.0 mm, 20 pcs. 8x12x1.0 mm, 20 pcs. 8x14x1.0 mm,
  20 pcs. 8x14x1.5 mm, 20 pcs. 10x14x1.0 mm, 20 pcs. 10x14x1.5 mm,
  20 pcs. 10x16x1.0 mm, 20 pcs. 12x16x1.5 mm, 20 pcs. 12x18x1.5 mm,
  20 pcs. 13x18x1.0 mm, 10 pcs. 14x18x1.5 mm, 10 pcs. 14x20x1.5 mm,
  10 pcs. 14x20x2.0 mm, 10 pcs. 16x20x1.5 mm, 10 pcs. 16x22x1.5 mm,
  10 pcs. 18x22x1.5 mm, 10 pcs. 18x24x1.5 mm, 10 pcs. 20x26x1.5 mm,
  10 pcs. 22x27x1.5 mm, 5 pcs. 22x29x1.5 mm, 5 pcs. 24x29x2.0 mm,
  5 pcs. 24x30x2.0 mm, 5 pcs. 24x32x2.0 mm, 5 pcs. 26x32x2.0 mm,
  5 pcs. 28x34x2.0 m, 5 pcs. 30x36x2.0 mm, 5 pcs. 32x38x2.0 mm

Item	Description	pcs	Art. No.
Copper Seal Ring Assortment	30 sizes	390	9005

Aluminium Seal Ring Assortment, 520 pcs., 30 sizes

- specially for oil drain plugs
- universal assortment with 30 popular sizes (inner-ø x outer-ø x thickness):
  10 pcs. 5x9x1.0 mm, 30 pcs. 6x10x1.0 mm, 30 pcs. 6x12x1.0 mm,
  30 pcs. 8x12x1.0 mm, 30 pcs. 8x14x1.0 mm, 10 pcs. 8x14x1.5 mm,
  10 pcs. 9x14x1.0 mm, 30 pcs. 10x14x1.0 mm, 10 pcs. 10x14x1.5 mm,
  30 pcs. 10x16x1.0 mm, 10 pcs. 12x16x1.0 mm, 20 pcs. 12x16x1.5 mm,
  20 pcs. 12x18x1.5 mm, 10 pcs. 13x18x1.0 mm, 20 pcs. 14x18x1.5 mm,
  20 pcs. 14x20x1.5 mm, 10 pcs. 14x20x2.0 mm, 20 pcs. 16x20x1.5 mm,
  20 pcs. 16x22x1.5 mm, 20 pcs. 18x22x1.5 mm, 20 pcs. 18x24x1.5 mm,
  20 pcs. 20x26x1.5 mm, 5 pcs. 20x24.5x0.8 mm, 5 pcs. 20x24.5x1.5 mm,
  20 pcs. 22x27x1.5 mm, 20 pcs. 22x29x1.5 mm, 20 pcs. 24x29x2.0 mm,
  5 pcs. 24x32x2.0 mm, 10 pcs. 26x32x2.0 mm, 5 pcs. 30x36x2.0 mm

Item	Description	pcs	Art. No.
Aluminium Seal Ring Assortment	30 sizes	520	9170

Aluminium Seal Ring Assortment, 450 pcs., 18 sizes

- specially for oil drain plugs
- 18 popular sizes (inner-ø x outer-ø x thickness):
  40 pcs. 6x10x1.0 mm, 40 pcs. 6x12x1.0 mm, 40 pcs. 8x12x1.0 mm,
  40 pcs. 8x14x1.0 mm, 40 pcs. 10x14x1.0 mm, 40 pcs. 10x16x1.0 mm,
  20 pcs. 12x16x1.5 mm, 20 pcs. 12x18x1.5 mm, 20 pcs. 14x18x1.5 mm,
  20 pcs. 14x20x1.5 mm, 20 pcs. 16x20x1.5 mm, 20 pcs. 16x22x1.5 mm,
  20 pcs. 18x22x1.5 mm, 20 pcs. 18x24x1.5 mm, 20 pcs. 20x26x1.5 mm,
  10 pcs. 22x27x1.5 mm, 10 pcs. 22x29x1.5 mm, 10 pcs. 24x29x2.0 mm

Item	Description	pcs	Art. No.
Aluminium Seal Ring Assortment	18 sizes	450	9160

Eyelet Assortment, incl. assembly tool, 103 pcs.

- for repair and DIY jobs
- for strengthening the hole, e.g. on canvas covers
- reduces the risk of tearing hole edge
- only suitable for indoor applications
- 50 eyelets with inner-ø 14 mm (2 pcs.)
- 1 assembly tool (3 pcs.)

Item	Inner-Ø	pcs	Art. No.
Eyelet Assortment	14 mm	103	9015

Eyelets

Item	Ø	Quantity	Art. No.
Eyelets	4.4 mm	400 pcs.	786

accessory

Item	Art. No.
Eyelet Pliers, 165 mm, incl. 100 eyelets ø 4.4 mm	785

Aluminium Rivet Nut Assortment, 150 pcs.

- knurled shank for better torsional strength
- 40 pcs. M3 x 9 mm
  35 pcs. M4 x 11 mm
  25 pcs. M5 x 13 mm
  25 pcs. M6 x 15 mm
  15 pcs. M8 x 18 mm
  10 pcs. M10 x 21 mm

Item	Material	pcs	Art. No.
Rivet Nut Assortment	aluminium	150	9040

Rivet Nut Assortment, galvanized steel, 150 pcs.

- knurled shank for better torsional strength
- 40 pcs. M3 x 9 mm
  35 pcs. M4 x 11 mm
  25 pcs. M5 x 13 mm
  25 pcs. M6 x 15 mm
  15 pcs. M8 x 18 mm
  10 pcs. M10 x 21 mm

Item	Material	pcs	Art. No.
Rivet Nut Assortment	galvanized steel	150	9050

Aluminium Blind Rivet Assortment, 400 pcs.

- rivet head length: 6 mm
- pin made of steel
- 100 pcs. 2.4 mm
  100 pcs. 3.2 mm
  100 pcs. 4.0 mm
  100 pcs. 4.8 mm

Item	Material	pcs	Art. No.
Blind Rivet Assortment	aluminium	400	9060

Circlip Assortments

Item	Ø	pcs	Art. No.
Internal Circlip Assortment	3 - 32 mm	300	9070
External Circlip Assortment	3 - 32 mm	300	9080

E-Clip Assortment, 300 pcs., 1.5-22 mm

- various sizes

Item	Ø	pcs	Art. No.
E-Clip Assortment	1.5 - 22 mm	300	9090

Roll Pin Assortment, 315 pcs., ø 2-10 mm, 5-50 mm long

Item	Ø	Length	pcs	Art. No.
Roll Pin Assortment	2 - 10 mm	5 - 50 mm	315	9100

Cotter Pin Assortment, 555 pcs., straight

- various thickness and length

Item	Description	pcs	Art. No.
Cotter Pin Assortment	straight type	555	9110

R-Clip Assortment, 150 pcs., 6 sizes

- 6 sizes

Item	Size	pcs	Art. No.
R-Clip Assortment	2.4 x 31 mm, 2.0 x 33 mm, 2.0 x 40 mm, 2.8 x 42 mm, 3.5 x 45 mm, 4.0 x 75 mm	150	9120

Spring Assortment, 200 pcs., compression and extension springs

- extension and pressure springs
- various sizes

Item	pcs	Art. No.
Spring Assortment	200	9130

Washer Assortment, 720 pcs.

- contains spring, star and retaining washers
- each type 50 pcs. inner-ø 3 mm
  each type 50 pcs. inner-ø 4 mm
  each type 50 pcs. inner-ø 5 mm
  each type 40 pcs. inner-ø 6 mm
  each type 30 pcs. inner-ø 8 mm
  each type 20 pcs. inner-ø 10 mm

Item	Ø	pcs	Art. No.
Washer Assortment	3-10 mm	720	9185

Screw Nut Assortment, self-locking, 146 pcs.

- hexagon, with nylon insert
- metric sizes
- 35 pcs. M4
  35 pcs. M5
  25 pcs. M6
  25 pcs. M8
  16 pcs. M10
  10 pcs. M12

Item	Size	pcs	Art. No.
Screw Nut Assortment, self-locking	M4-M12	146	9186

U-Type Cushion and Screw Assortment, 170 pcs.

- cross slotted screws:
  40 pcs. 3x8 mm, 20 pcs. 4x16 mm, 15 pcs. 5x12 mm, 10 pcs. 6x20 mm
- bodywork u-type cushions:
  20 pcs. 3 mm bore, 13x8 mm, 20 pcs. 3 mm bore, 18x11 mm (with notch), 20 pcs. 4 mm bore, 16x11 mm (with notch), 15 pcs. 5 mm bore, 20x13 mm (with notch), 10 pcs. 6 mm bore, 22x13 mm

Item	pcs	Art. No.
U-Type Cushion and Screw Assortment	170	9190

Rubber Grommet Assortment, 180 pcs., 8 sizes

- e.g. for cable entries

Item	Description	pcs	Art. No.
Rubber Grommet Assortment	8 sizes	180	9010

Rubber Grommet Assortment, 125 pcs., 18 sizes

- e.g. for cable entries

Item	Description	pcs	Art. No.
Rubber Grommet Assortment	18 sizes	125	9020

Heat Shrink Tubing Assortment, black, 127 pcs.

- protects cables from the effects of weather and corrosion
- suitable for temperatures up to 125° C
- for cables with max. 600 V
- shrink ratio 2:1
- content: 30x 2x40 mm, 25x 2.5x40 mm, 20x 3.5x40 mm, 20x 5x40 mm, 16x 7x80 mm, 8x 10x80 mm, 8x 13x85 mm

Item	pcs	Art. No.
Heat Shrink Tubing Assortment	127	9197

Heat Shrink Tubing Assortment, coloured, 100 pcs.

- protects cables from the effects of weather and corrosion
- suitable for temperatures up to 125° C
- for cables with max. 600 V
- shrink ratio 2:1
- content: 30x 1.5x100 mm, 30x 2.5x100 mm, 20x 4x100 mm, 10x 6x100 mm, 6x 10x100 mm, 4x 13x100 mm

Item	pcs	Art. No.
Heat Shrink Tubing Assortment	100	9198

Quick Action Branch Connector Set, 50 pcs.

- for setting up branch connections
- ideal when upgrading for e.g. trailer couplings, additional headlamps etc.
- 25 connectors for cables with 0.5 – 1.5 mm² cross-section
  25 connectors for cables with 1.5 – 2.5 mm² cross-section

Item	pcs	Art. No.
Quick Action Branch Connector Set	50	9195

Electrical Clip Assortment, 28 pcs.

- zinc plated
- insulated clips with red and black insulation for easier identification of +/- during application
- non-insulated clips for various applications

Item	pcs	Art. No.
Electrical Clip Assortment	28	9196

Terminal Assortment, 200 pcs.

Item	Description	pcs	Art. No.
Terminal Assortment	assorted terminals	200	3160

Terminal Assortment, 100 pcs.

Item	Description	pcs	Art. No.
Terminal Assortment	assorted terminals	100	3180

Assortment Box, 18 compartments, empty

Item	Art. No.
Assortment Box	9199

Collection Pans and Fluid Transfer

Suction Pump

- with hand pump lever and pneumatic connectivity
- integrated automatic shut-off valve prevents overfill
- with nozzle to easily pour out extracted fluids
- solid PE construction, resistant to most common chemicals; fluids like engine oil, transmission oil, cooling fluid, brake fluid etc. can be extracted without problems
- incl. 3 drain hoses: 5 x 1000 mm, 7 x 1000 mm, 10 x 1500 mm

Item	Capacity	Art. No.
Suction Pump	7.3 L	3999

Vacuum and Fluid Transfer Pump

- suitable for almost all fluids, including petrol, diesel and oil
- with locking mechanism, can also be used for temporary storage of fluids

Item	Capacity	Art. No.
Vacuum and Fluid Transfer Pump	1500 cm³	3991

Multi Purpose Mini Pump

- with bent metal pipe end for hard to reach areas
- for refilling fluids such as brake fluid, oil, general purpose cleaner
- not suitable for petrol and other easily flammable liquids
- hose length 500 mm

Item	Capacity	Art. No.
Multi Purpose Mini Pump	1000 cm³	3993

Oil Suction Pump

- for extracting and filling transmission and clutch oil

Item	Capacity	Art. No.
Oil Suction Pump	200 cm³	3994

Suction Pump

- including 2 hoses
- with separate suction and drain nozzle
- suitable for almost all fluids, including petrol, diesel and oil
- solid metal body

Item	Length	Capacity	Art. No.
Suction Pump	ca. 1200 mm	500 cm³	3992

Hose Pump

- antistatic hose for transferring fluids, e.g. fuel, water, paint, solvents etc.
- avoids taking in fluids with the mouth
- prevents accidental swallowing of toxic and other unpleasant fluids

Item	Length	Inner-Ø	Outer-Ø	Art. No.
Hose Pump	1800 mm	12 mm	17 mm	3995

Syphon Pump

- for transferring fluids
- fuel and oil resistant

Item	Description	Art. No.
Syphon Pump	hose length approx. 2 m	3990

Fluid Collection Pans

- resistant against most chemicals, e.g. alcohol, petrol, oil and various acids and bases
- fits perfectly between front wheels, e.g. when draining cooling fluid
- manufactured in Germany

Item	Width	Length	Capacity	Height	Art. No.
Fluid Collection Pan	420 mm	560 mm	16 L	80 mm	9910
Fluid Collection Pan	600 mm	880 mm	42 L	100 mm	9911

Oil Drain Pan, extra flat, 5 L

- resistant against most chemicals, various acids and bases
- fits perfectly between front wheels
- manufactured from durable black polypropylene (PP)

Item	Width	Length	Capacity	Height	Material	Art. No.
Oil Drain Pan	609 mm	457 mm	5 L	19 mm	PP (Polypropylen)	9905

Oil Drain Pans

- resistant against most chemicals, e.g. alcohol, petrol, oil and various acids and bases
- with spout and overflow protection

Item	Ø	Capacity	Height	Material	Art. No.
Oil Drain Pan	400 mm	8 L	120 mm	HDPE	3701-08
Oil Drain Pan	475 mm	16 L	145 mm	HDPE	3701-16

Oil Drain Pan, 6 L

- resistant against most chemicals, various acids and bases
- with side grip handles and wide draining spout
- manufactured from durable black polypropylene (PP)

Item	Ø	Capacity	Height	Material	Art. No.
Oil Drain Pan	340 mm	6 L	90 mm	PP (Polypropylen)	9906

Flexible Funnel

- flexible, easy to shape aluminium core
- for filling or draining e.g. fuel, oil, colling fluid, washer fluid
- surface material made from NBR rubber

Item	Width	Length	Art. No.
Flexible Funnel	169 mm	368 mm	3809

Oil Funnel, double-angled

- ideal for hard-to-reach spaces
- for filling up oil, antifreeze fluid etc.

Item	Ø	Height	Material	Art. No.
Funnel	145 mm	320 mm	plastic	9975

Funnel

- with sieve
- flexible tube, can be screwed of

Item	Ø	Material	Art. No.
Funnel	140 mm	plastic	3703

Funnel Assortment

Item	Ø	Material	pcs	Art. No.
Funnel Assortment	50, 75, 95, 115 mm	plastic	4	3702

Lamps

Head Lamp, wireless charging, COB-LED

- 3 light levels for maximum illumination with up to 400 lumens
- up to 21 hours of light duration in Eco mode (30 lumens)
- less head movement thanks to 120° light angle
- lamp head can be swivelled up to 125° in stages
- practical battery charge level indicator via LED
- highest wearing comfort due to very low weight of only 104 g
- easily adjustable headband with rubber coating on the inside for a better grip
- strong magnet for a secure hold, e.g. on a wireless charging station
- robust housing, protected against dust and water jet (IK07 / IP65)
- technical data:
  spotlight: 400 lumens, light duration approx. 4 hours
  main light level 1: 30 lumens, light duration approx. 21 hours
  main light level 2: 200 lumens, light duration approx. 8 hours
  main light level 3: 400 lumens, light duration approx. 4 hours
  battery: Li-Polymer, 3.7V, 1500mAh
- charging time:
  USB-C cable: approx. 3 hours
  wireless: approx. 4.5 hours

Item	Lamp	Power	Art. No.
Head Lamp	COB LED	400 lm	9410

Pocket Floodlight, wireless charging, COB-LED “Twin Beam 2-in-1“

- 3 light levels for maximum illumination with up to 800 lumens
- up to 10 hours light duration in Eco mode (160 lumens)
- handle can be swivelled up to 210° for the best possible illumination angle
- extra strong magnet on the handle for individual placement
- practical battery charge level indicator via 3 LEDs
- robust housing, protected against dust and water jets (IK07 / IP65)
- technical data:
  spotlight: 250 lumens, light duration approx. 4.5 hours
  main light level 1: 160 lumens, light duration approx. 10 hours
  main light level 2: 400 lumens, light duration approx. 4 hours
  main light level 3: 800 lumens, light duration approx. 3 hours
  battery: Li-ion, 3.7V, 2600 mAh
- charging time:
  USB-C cable: approx. 4 hours
  wireless: approx. 6 hours

Item	Lamp	Power	Art. No.
Pocket Floodlight	COB LED	800 lm	9416

Hand Lamp, rechargeable, “Ultra Slim 2-in-1“, COB-LED

- hand lamp and torch light in one
- powerful 120 lumen spotlight by high-power SMD-LED
- powerful 60-700 lumens (infinitely dimmable) in the main light by COB-LED
- up to 16.5 hours of illumination at the lowest level (60 lumens) in the main light
- 11 mm ultra-thin light head for narrow spaces
- strong swivelling and 360° rotatable magnet with fold-out suspension hooks at the bottom for individual placement
- practical battery charge level indicator via 5 LED
- robust housing, protected against dust and splash (IK07 / IP54)
- technical data:
  spotlight: 120 lumens (high power SMD LED), light duration approx. 10 hours
  main light: 60-700 lumens (COB-LED), continuously dimmable
  light duration minimum level: approx. 16 hours, maximum level: approx. 1.5 hours
  battery: Li-ion, 3.7V, 2600 mAh
- charging via USB-C cable, charging time: approx. 4 hours

Item	Lamp	Power	Art. No.
Hand Lamp	COB LED	700 lm	9420

Hand Lamp, wireless charging, COB-LED "Slim Beam 3-in-1"

- hand lamp, inspection lamp and torch light in one
- powerful 120 lumen spotlight by high-power SMD-LED
- powerful 400 lumen side light by COB-LED
- powerful 800 lumen main light by COB-LED
- main light with 2 levels, 400 and 800 lumens, for maximum light duration
- up to 4.5 hours of light duration at the lowest level (400 lumens) in the main light
- light head can be swivelled through 180°, 100% foldable to pocket size
- strong magnet at the bottom for individual placement
- practical battery charge level indicator via 3 LED with low voltage warning function
- robust aluminium and plastic housing, protected against dust and water jets (IK07 / IP65)
- technical data:
  spotlight: 120 lumens (high power SMD-LED), light duration approx. 9 hours
  side light: 400 lumen (COB-LED), light duration approx. 4.5 hours
  main light: 800 / 400 lumen (COB-LED), light duration approx. 2.5 / 4.5 hours
  battery: Li-ion, 3.7V, 2600 mAh
- charging time:
  USB-C cable: approx. 3.5 hours
  wireless: approx. 5.5 hours

Item	Lamp	Power	Art. No.
Hand Lamp	COB LED	800 lm	9421

Hand Lamp, wireless charging, COB-LED "Worklight 2-in-1"

- hand lamp and torch light in one
- lamp head can be swivelled through 180°
- powerful 200 lumen spotlight by high-power SMD-LED
- powerful 1000 lumen main light by COB-LED
- main light with 3 levels: 250, 500 and 1000 lumens, for maximum light duration
- up to 5 hours of light duration in Eco mode (250 lumens) in the main light
- extra strong magnets on the back and bottom as well as 2 fold-out suspension hooks for individual placement
- practical battery charge level indicator via 3 LED
- robust housing, protected against dust and water jets (IK09 / IP65)
- technical data:
  spotlight: 200 lumens (high power SMD LED), light duration approx. 7 hours
  main light level 1: 250 lumen (COB-LED), light duration approx. 5 hours
  main light level 2: 500 lumen (COB-LED), light duration approx. 2.5 hours
  main light level 3: 1000 lumen (COB-LED), light duration approx. 1.3 hours
  battery: Li-ion, 3.6V, 3350 mAh
- charging time:
  USB-C cable: approx. 4.5 hours
  wireless: approx. 6.5 hours

Item	Lamp	Power	Art. No.
Hand Lamp	COB LED	1000 lm	9425

Floodlight, rechargeable, with bluetooth loudspeaker, COB-LED

- strong luminosity and rich sound, combined in one housing
- 4 light levels for maximum illumination with up to 4000 lumens
- up to 20 hours of illumination at the lowest level (400 lumens)
- lamp head can be swivelled up to 140° in stages
- high-performance speaker with 10W, controllable via Bluetooth
- wireless, compatible with Android and IOS
- practical battery charge level indicator via 5 LED
- hook in the base of the housing for individual placement
- robust housing, protected against dust and water jets (IK07 / IP65)
- technical data:
  high-quality COB-LED, switchable in 4 levels
  brightness level 1: 400 lumens, light duration approx. 20 hours
  brightness level 2: 1000 lumens, light duration approx. 10 hours
  brightness level 3: 2000 lumens, light duration approx. 6 hours
  brightness level 4: 4000 lumens, light duration approx. 3.5 hours
  battery: Li-ion, 11.1V, 5200 mAh
- charging time: approx. 4 hours
  charging via 100-240V charger
  output power: 15V 1.5A

Item	Lamp	Power	Art. No.
Floodlight	COB LED	4000 lm	9415

Engine Bay Light, SMD-LED

- 3 light levels for maximum illumination with up to 2000 lumens
- up to 6 hours light duration at the lowest level (500 lumens)
- light strip can be rotated 360° for the best possible illumination angle
- spring-loaded telescopic holder, infinitely extendable from 1170 to 1970 mm
- padded hooks to prevent damage to car paint
- operation either via rechargeable battery or supplied 1 m charging cable
- practical battery charge level indicator via 3 LED
- also ideal for illuminating the passenger compartment
- the weight of only 1.110 g avoids high pulling forces when mounted on the bonnet
- very robust housing (IK07 / IP20)
- technical data:
  50 super bright SMD LED, switchable in 3 levels
  brightness level 1: 500 lumens, light duration approx. 6 hours
  brightness level 2: 1000 lumens, light duration approx. 3 hours
  brightness level 3: 2000 lumens, light duration approx. 2 hours
  battery: Li-ion, 3.65V, 5000 mAh
- charging time: approx. 4 hours
  charging via USB-C cable

Item	Lamp	Power	Art. No.
Engine Bay Light	50x SMD LED	2000 lm	9414

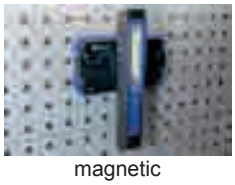
SOS Emergency Beacon, SMD-LED

- warning light and work light in one
- powerful 220 lumen yellow SOS flashing light with a visibility range of up to 2 km
- powerful 200 lumen white work light by high-power SMD-LED
- up to 15.5 hours light duration in SOS mode
- extra strong magnet on the back for secure placement
- practical battery charge level indicator via 1 LED
- robust housing, protected against dust and water jets (IK07 / IP65)
- technical data:
  level 1: SOS flashing light, 220 lumen 85cd (SMD-LED),
  light duration approx. 15.5 hours
  level 2: Work light, 200 lumens (SMD-LED),
  light duration approx. 2.5 hours
  battery: Li-ion, 3.7V, 750 mAh
- charging via USB-C cable
  charging time: approx. 4 hours

Item	Lamp	Power	Art. No.
SOS Emergency Beacon	SMD LED	220 lm	9430

Single Charging Pad

special holder for mobile phones



magnetic

- for wireless charging of induction-chargeable devices
- patented extendable holder for charging mobile phones
- additional USB-C port for charging other devices
- max charging current: 10W / 2A
- practical charging indicator via 1 LED
- extra strong magnet on the front to securely hold the device to be charged
- extra strong magnet on the back for attachment on magnetic surfaces
- integrated screw holes for wall mounting
- scope of delivery:
  1x USB-C fast charging cable, 1 m
  1x power adapter, 5V = 2A

Item	Power	Art. No.
Single Charging Pad	10W / 2A	9432

Double Charging Pad

- for simultaneous wireless charging of 2 induction-chargeable devices
- patented extendable holder for charging mobile phones
- additional USB C port for charging other devices
- max. charging current: 20W with QC3.0 fast charging technology, up to max. 3A
- practical charging indicator via 1 LED, individually for each charging station
- extra strong magnet on the front to securely hold the device to be charged
- extra strong magnet on the back for attachment on magnetic surfaces
- integrated screw holes for wall mounting
- scope of delivery:
  1x USB-C fast charging cable, 1 m
  1x power adapter: 5V = 3A, 9V = 2A and 12V = 1.5A

Item	Power	Art. No.
Double Charging Pad	20W / 3A	9433

Double Charging Pad

- automatic extension of the mobile phone holder by pressing a button
- for simultaneous wireless charging of 2 induction-chargeable devices
- patented extendable holder for charging mobile phones
- additional USB C port for charging other devices
- max. charging current: 20W with QC3.0 fast charging technology, up to max. 3A
- practical charging indicator via 1 LED, individually for each charging station
- extra strong magnet on the front to securely hold the device to be charged
- extra strong magnet on the back for attachment on magnetic surfaces
- integrated screw holes for wall mounting
- scope of delivery:
  1x USB-C fast charging cable, 1 m
  1x power adapter: 5V = 3A, 9V = 2A and 12V = 1.5A

Item	Power	Art. No.
Double Charging Pad	20W / 3A	9434

USB Charger

- for charging battery lamps with USB connection and compatible devices
- 100-240V/5V1A

Item	Power	Art. No.
USB Charger	100-240V/5V1A	9438

Inspection Mirrors and Pick-Up Tools

LED Inspection Mirror and Magnetic Pick-Up Tool, 5 pcs.

- 1x telescopic magnetic pick-up tool, with LED lighting, extendable up to 665 mm, lifting capacity 450 g
- 1x telescopic magnetic pick-up tool, extendable up to 665 mm, lifting capacity 3500 g
- 3x mirror attachment ø 21, 31, 38 mm

Item	pcs	Art. No.
LED Inspection Mirror and Magnetic Pick-Up Tool	5	3575

Inspection Set, magnetic pick-up tool + mirror, 2 pcs.

- oval mirror, 50x25 mm, with ball joint and telescopic extension up to 540 mm
- magnetic pick-up-tool, flexible, easy to shape aluminium core, lifting capacity 680 g, 510 mm

Item	pcs	Art. No.
Inspection Set	2	70372

Telescopic Inspection Mirror

- telescopic extension
- swivel mounted ball joint

Item	Ø	Length	Art. No.
Telescopic Inspection Mirror	30 mm	500 mm	3567

Flexible Inspection Mirror

- flexible shaft

Item	Ø	Length	Art. No.
Flexible Inspection Mirror	55 mm	500 mm	3568

Telescopic Magnetic Pick-Up Tool

373

373A

Item	Lifting Capacity	Length	Art. No.
Telescopic Magnetic Pick-Up Tool	3600 g	170 - 760 mm	373
Telescopic Magnetic Pick-Up Tool	1600 g	130 - 640 mm	373A

Magnetic Pick-Up Tool, telescopic shaft

Item	Lifting Capacity	Length	Art. No.
Telescopic Magnetic Pick-Up Tool	500 g	180 - 540 mm	930-M

Telescopic Magnetic Pick-Up Tool

- with clip and nozzle needle

Item	Lifting Capacity	Length	Art. No.
Telescopic Magnetic Pick-Up Tool	500 g	120 - 650 mm	372

Flexible Magnetic Pick-Up Tool

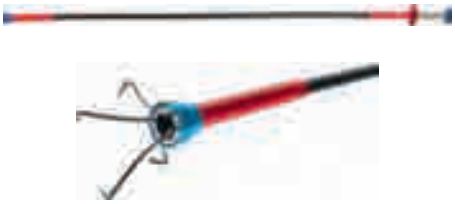
374

374A

- flexible shaft

Item	Ø	Lifting Capacity	Length	Art. No.
Flexible Magnetic Pick-Up Tool	14 mm	1500 g	550 mm	374
Flexible Magnetic Pick-Up Tool	6.5 mm	500 g	510 mm	374A

Magnetic Pick-Up and Claw Tool 2 in 1



Item	Lifting Capacity	Length	Art. No.
Magnetic Pick-Up and Claw Tool 2 in 1	400 g	700 mm	426

Claw Pick-Up Tool

- for picking up small parts in hard to reach areas

Item	Length	Art. No.
Claw Pick-Up Tool	600 mm	427

Hooks, Scrapers and Brushes

Hook Set with Rounded Tips, 4 pcs.

- ideal for removing gaskets, o-rings, shaft seals etc., and as assembly helper when mounting hoses to the flange (e.g. radiator, turbocharger)
- the rounded tips reduce the risk of damage such as scratches, scores etc.
- 2x straight type (short and long)
- 2x bent type (short and long)

Item	Blade Length	pcs	Art. No.
Hook Set with Rounded Tips	60 + 135 mm	4	1585

Hook Set, 6 pcs., with magnetic pick-up tool

- 1x awl
- 1x universal hook
- 1x hook, 90°
- 2x hook, 45°
- 1x magnetic pick-up tool, telescopic 235 - 530 mm

Item	Blade Length	Length	pcs	Art. No.
Hook Set, with magnetic pick-up tool	75 mm	140 mm	6	1591

Hook Set, 4 pcs.

- 1x awl
- 1x universal hook
- 1x hook, 90°
- 1x hook, 135°

Item	Blade Length	Length	pcs	Art. No.
Hook Set	70 mm	150 mm	4	1590

Seal Puller Hook

Item	Description	Art. No.
Seal Puller Hook	two-sided tip	1581

Assembly Hook for Brake Springs

- for disassembly and assembly of springs on brakes, headlights etc.
- e.g. extension springs on hand brake shoe on Mercedes-Benz with disc brakes at rear, VW Crafter (from 2006) and LT (from 1997)

Item	Length	Art. No.
Assembly Hook for Brake Springs	155 mm	1589

Chisel Scraper Set, 4 pcs.

- blades made from stainless steel
- go-through blades, can be resharpened

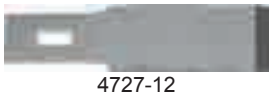
Content	Length	Thickness	Blade Width	Art. No.
Chisel Scraper	180 mm	1.2 mm	20 mm	4705-212
Chisel Scraper	230 mm	1.2 mm	32 mm	4705-312
Chisel Scraper	180 mm	2.5 mm	20 mm	4705-225
Chisel Scraper	230 mm	2.5 mm	32 mm	4705-325

Item	pcs	Art. No.
Chisel Scraper Set	4	4705

Scraper Set, 21 pcs.

- for removing stickers, adhesives (e.g. on windscreens), sealants
- content:
  1 scraper handle
  5 blades 12 mm
  5 blades 16 mm
  5 blades 20 mm
  5 blades 16 mm 53°

Item	pcs	Art. No.
Scraper Set	21	5940



4727-12

4727-16

4727-20

4727-16S

4727-TR

Scraper Blades, for No. 4727 and 5940

Item	Blade Width	Quantity	Art. No.
Scraper Blades	12 mm	10 pcs.	4727-12
Scraper Blades	16 mm	10 pcs.	4727-16
Scraper Blades	20 mm	10 pcs.	4727-20
Scraper Blades, angled 53°	16 mm	10 pcs.	4727-16S
Trapeziod Scraper Blades		10 pcs.	4727-TR

Scraper and Knife Set, 27 pcs.

- for removing stickers, adhesives (e.g. on windscreens), sealants
- content:
  1 scraper handle
  1 retractable knife
  5 blades 12 mm
  5 blades 16 mm
  5 blades 20 mm
  5 blades 16 mm 53°
  5 trapezoid blades

Item	pcs	Art. No.
Scraper and Knife Set	27	4727

Glas Scraper, blade 38 mm

- ideal for removing stickers, sealings and adhesives
- handle with protective grip und pin hole
- protective blade cover with safety design for changing blades

Item	Blade Width	Art. No.
Glas Scraper	38 mm	5937

accessory

Item	Art. No.
Scraper Blades, 5 pcs.	5937-KL

Scraper Blades

Item	Quantity	Art. No.
Scraper Blades	5 pcs.	5937-KL

Bore Brush Set, 38 pcs., steel/nylon/brass, ø 8-19 mm

- for cleaning and deburring cylinders, bushings, pipes and other work pieces
- 36 brushes, 12 sizes, each size 1x steel, 1x nylon, 1x brass

Content		brass-coated		8 mm	9500-S08
nylon		8 mm	9500-M08	9 mm	9500-S09
8 mm	9500-N08	9 mm	9500-M09	10 mm	9500-S10
9 mm	9500-N09	10 mm	9500-M10	11 mm	9500-S11
10 mm	9500-N10	11 mm	9500-M11	12 mm	9500-S12
11 mm	9500-N11	12 mm	9500-M12	13 mm	9500-S13
12 mm	9500-N12	13 mm	9500-M13	14 mm	9500-S14
13 mm	9500-N13	14 mm	9500-M14	15 mm	9500-S15
14 mm	9500-N14	15 mm	9500-M15	16 mm	9500-S16
15 mm	9500-N15	16 mm	9500-M16	17 mm	9500-S17
16 mm	9500-N16	17 mm	9500-M17	18 mm	9500-S18
17 mm	9500-N17	18 mm	9500-M18	19 mm	9500-S19
18 mm	9500-N18	19 mm	9500-M19		
19 mm	9500-N19	steel			

Item	Ø	Shaft	Length	pcs	Art. No.
Bore Brush Set	8-19 mm	1/4"	100 mm	38	9500

Drive Tools / Accessory, 1/4"	
Handle, 140 mm	9500-01
Extension, 150 mm	9500-02

Bore Brush Set, 20 pcs., steel/nylon/brass, ø 8-19 mm

- for cleaning and deburring cylinders, bushings, pipes and other work pieces
- 18 brushes, ø 8, 10, 12, 15, 17 and 19 mm, each 1x steel, nylon and brass
- 1 handle, 140 mm, with 1/4″ quick release
- 1 extension bar, 150 mm, 1/4″ quick-release, 1/4″ hex drive

Content		brass-coated		8 mm	9500-S08
nylon		8 mm	9500-M08	10 mm	9500-S10
8 mm	9500-N08	10 mm	9500-M10	12 mm	9500-S12
10 mm	9500-N10	12 mm	9500-M12	15 mm	9500-S15
12 mm	9500-N12	15 mm	9500-M15	17 mm	9500-S17
15 mm	9500-N15	17 mm	9500-M17	19 mm	9500-S19
17 mm	9500-N17	19 mm	9500-M19		
19 mm	9500-N19	steel			

Item	Ø	Shaft	Length	pcs	Art. No.
Bore Brush Set	8-19 mm	1/4"	100 mm	20	9502

Drive Tools / Accessory, 1/4"	
Handle, 140 mm	9500-01
Extension, 150 mm	9500-02

Bore Brush Set, 8 pcs., steel, ø 8-19 mm

- for cleaning and deburring cylinders, bushings, pipes and other work pieces
- 6 brushes, ø 8, 10, 12, 15, 17 and 19 mm, 1/4″ hex drive
- 1 handle, 140 mm, with 1/4″ quick release
- 1 extension bar, 150 mm, with 1/4″ quick-release, 1/4″ hex drive

Content		10 mm	9500-S10	17 mm	9500-S17
steel		12 mm	9500-S12	19 mm	9500-S19
8 mm	9500-S08	15 mm	9500-S15		

Item	Ø	Shaft	Length	pcs	Art. No.
Bore Brush Set	8-19 mm	1/4"	100 mm	8	9504

Drive Tools / Accessory, 1/4"	
Handle, 140 mm	9500-01
Extension, 150 mm	9500-02

Bore Brush Set, 6 pcs., steel, ø 8-19 mm

- for cleaning and deburring cylinders, bushings, pipes and other work pieces
- 6 brushes, ø 8, 10, 12, 15, 17 and 19 mm, 1/4″ hex drive

Content					
steel		10 mm	9500-S10	17 mm	9500-S17
8 mm	9500-S08	12 mm	9500-S12	19 mm	9500-S19
		15 mm	9500-S15		

Item	Ø	Shaft	pcs	Art. No.
Bore Brush Set	8-19 mm	1/4"	6	9505

Bore Brush Set, 6 pcs., brass, ø 8-19 mm

- for cleaning and deburring cylinders, bushings, pipes and other work pieces
- 6 brushes, ø 8, 10, 12, 15, 17 and 19 mm, 1/4″ hex drive

Content					
brass-coated		10 mm	9500-M10	17 mm	9500-M17
8 mm	9500-M08	12 mm	9500-M12	19 mm	9500-M19
		15 mm	9500-M15		

Item	Ø	Shaft	pcs	Art. No.
Bore Brush Set	8-19 mm	1/4"	6	9506

Mini Brush Set, 3 pcs.

- brushes made from nylon, brass and stainless steel
- compact length of 165 mm, ideal for tight spaces
- special handle design for secure grip

Item	Length	pcs	Art. No.
Mini Brush Set	165 mm	3	9508

Brush Assortment, 17 pcs.

- for cleaning paint spray guns of all types, e.g. pressure, low-pressure, HVLP, airbrush spray guns and stripping tools
- scope of delivery:
  nylon round brushes: 5x short, 2x medium, 1x long
  nylon brush head: 1x short
  nylon brush with handle: 1 pcs.
  natural round brush: 1x medium
  micro-needles: 6 pcs.

Item	pcs	Art. No.
Brush Assortment	17	9507

Wire Brushes

- body made from wood, with hanging hole, steel wire

Item	Description	Length	Art. No.
Wire Brush	2 rows	280 mm	400D
Wire Brush	3 rows	280 mm	400A
Wire Brush	4 rows	280 mm	400B
Wire Brush	5 rows	280 mm	400C

402

403

Steel Wire Brushes

Item	Length	Art. No.
Steel Wire Brush	250 mm	402
Brass Coated Wire Brush	250 mm	403

Circular Wire Brush, braided

- for angle grinders
- receiver: 22.2 mm bore

Item	Ø	Description	Art. No.
Circular Wire Brush	115 mm	braided	9510

Wire Cup Brush, cone shape, braided

- for angle grinders
- receiver: M14x2

Item	Ø	Description	Art. No.
Circular Wire Brush	100 mm	braided	9524

Circular Wire Brush, braided

- for power drills
- receiver: 6 mm shank

Item	Ø	Description	Art. No.
Circular Wire Brush	75 mm	braided	9514

Circular Wire Brush

- for power drills
- receiver: 6 mm shank

Item	Ø	Art. No.
Circular Wire Brush	75 mm	9518

Wire Cup Brush, braided

- for angle grinders
- receiver: M14x2

Item	Ø	Description	Art. No.
Wire Cup Brush	65 mm	braided	9512

Wire Cup Brush

- for power drills
- receiver: 6 mm shank

Item	Ø	Art. No.
Wire Cup Brush	75 mm	9516

Wire Brush, braided

- for power drills
- receiver: 6 mm shank

Item	Ø	Description	Art. No.
Wire Brush	25 mm	braided	9522

Wire Brush

- for power drills
- receiver: 6 mm shank

Item	Ø	Art. No.
Wire Brush	30 mm	9520

Bench Vices

Multi Purpose Bench Vice, 16.5 kg, jaw width 125 mm

- continuously 360° rotatable head with 2 different mounting profiles for individual applications
- special mounting profile for non-deforming clamping of pipes and round material ø 15-60 mm
- turntable continuously adjustable by 360° for even better adjustment and convenient working
- exchangeable clamping jaws, knurled for better grip of the workpieces
- with anvil plate for straightening work, upsetting work, for center punching etc.
- 4 drill holes in the base plate for safe mounting, e.g. on a workbench

Item	Weight	Jaw Width	Art. No.
Bench Vice	16.5 kg	125 mm	9477-125

Bench Vices

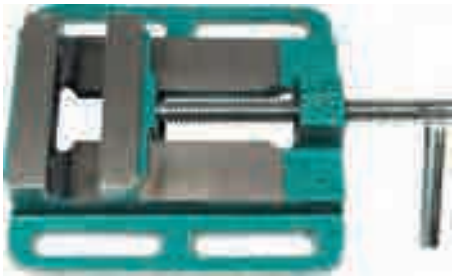
- turntable infinitely adjustable by 360°, lockable via sliding handle
- exchangeable clamping jaws, knurled for better grip of the workpieces
- with anvil plate for straightening work, upsetting work, for center punching etc.
- 3 drill holes in the base plate for safe mounting, e.g. on a workbench

Item	Weight	Jaw Width	Art. No.
Bench Vice	8 kg	100 mm	9476-100
Bench Vice	12 kg	125 mm	9476-125
Bench Vice	16 kg	150 mm	9476-150

All-Steel Bench Vices

- turntable infinitely adjustable by 360°, lockable via sliding handle
- exchangeable clamping jaws, knurled for better grip of the workpieces
- with anvil plate for straightening work, upsetting work, for center punching etc.
- 3 drill holes in the base plate for safe mounting, e.g. on a workbench

Item	Weight	Jaw Width	Art. No.
All-Steel Bench Vice	6.75 kg	100 mm	77EX-100
All-Steel Bench Vice	10.5 kg	125 mm	77EX-125
All-Steel Bench Vice	13.5 kg	150 mm	77EX-150



Drill Press Vice

- made from cast iron

Item	Jaw Width	Art. No.
Drill Press Vice	100 mm	74

Bench Vice

- made from cast iron
- with anvil
- swivel type

Item	Jaw Width	Art. No.
Bench Vice	60 mm	77TI

Protection Sleeves for Bench Vices, 2 pcs., magnetic

- manufactured from TPU, for gentle clamping of sensitive workpieces, e.g. aluminium, copper, plastik, wood
- various clamping options with centering guide: horizontal, 60° and vertical
- recessed magnets for a secure hold on the vice

Item	Jaw Width	pcs	Art. No.
Protection Sleeve for Bench Vice	100 mm	2	9478-100
Protection Sleeve for Bench Vice	125 mm	2	9478-125
Protection Sleeve for Bench Vice	150 mm	2	9478-150

Protection Sleeves for Bench Vices, 2 pcs., magnetic

- rubber coated aluminium with permanent magnet

Item	Jaw Width	pcs	Art. No.
Protection Sleeve for Bench Vice	100 mm	2	77SCH-100
Protection Sleeve for Bench Vice	125 mm	2	77SCH-125
Protection Sleeve for Bench Vice	150 mm	2	77SCH-150

Protection Sleeves for Bench Vice, magnetic

- 4 magnetic jaw pairs with special profiles, suitable e.g. for threaded rods and sensitive work-pieces

Item	Jaw Width	pcs	Art. No.
Protection Sleeves for Bench Vice	100 mm	8	78M-100

Cutting, Filing and Sawing

Folding Knife, with locking mechanism

- blade made from 5CR15MOV steel
- locking mechanism when knife is unfolded
- ergonomic handle for non-slip grip
- includes nail notch, integrated belt clip, rope cutter and glass breaker

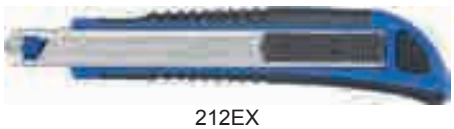
Item	Blade Length	Description	Material	Art. No.
Folding Knife	8.5 cm	with locking mechanism	5CR15MOV	9550

Retractable Knifes

- 2-component handle
- non-slip soft grip handle
- metal guide shroud
- for segmented blades

Item	Description	Blade Width	Art. No.
Retractable Knife	with magazine incl. 5 blades	18 mm	211EX
Retractable Knife	with magazine incl. 3 blades	9 mm	212EX

211EX

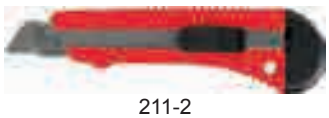


212EX

Retractable Knives

Item	Description	Blade Width	Art. No.
Retractable Knife	with segmented blade	18 mm	211-1
Retractable Knife	with segmented blade and metal guide shroud	18 mm	211-2
Retractable Knife	with segmented blade	9 mm	212

211-1



211-2

212

Blade Strips

- supplied in plastic storage box

Item	Description	Blade Width	Quantity	Art. No.
Blade Strips	in plastic box	18 mm	5 pcs.	211E
Blade Strips	in plastic box	9 mm	5 pcs.	212E

Heavy Duty Hacksaw Frame

- incl. 300 mm HSS blade
- solid tubular frame
- adjustable blade tension
- with soft grip handle

Item	Art. No.
Heavy Duty Hacksaw Frame	9540

Hacksaw Frame

- chrome plated steel tube bow frame

Item	Description	Art. No.
Hacksaw Frame	adjustable 250 / 300 mm	226

Metal Saw Blade, 300 mm

- HSS bi-metal for high standards
- 24 teeth per inch
- manufactured in Germany

Item	Length	Art. No.
Metal Saw Blade	300 mm	9541

Hole Saws, carbide, flat cut

- for V2A, V4A (each up to 2 mm), steel, cast steel, non-ferrous metals, wood, plastic, plasterboard, aerated concrete, etc.
- the special design enables better guidance of the hole saw as well as fast and easy drilling performance
- the resulting lower cutting pressure prevents deformation of the material
- centre drill with 3-edged shank to prevent slipping in the drill chuck
- ejection spring for easy removal of the drill core
- for use in hand and stationary drilling machines
- maximum possible cutting depth: 25 mm (depending on material)

Item	Ø	Description	Art. No.
Hole Saw	12 mm	cutting depth 25 mm	39680-12
Hole Saw	13 mm	cutting depth 25 mm	39680-13
Hole Saw	14 mm	cutting depth 25 mm	39680-14
Hole Saw	15 mm	cutting depth 25 mm	39680-15
Hole Saw	16 mm	cutting depth 25 mm	39680-16
Hole Saw	17 mm	cutting depth 25 mm	39680-17
Hole Saw	18 mm	cutting depth 25 mm	39680-18
Hole Saw	19 mm	cutting depth 25 mm	39680-19
Hole Saw	20 mm	cutting depth 25 mm	39680-20
Hole Saw	21 mm	cutting depth 25 mm	39680-21
Hole Saw	22 mm	cutting depth 25 mm	39680-22
Hole Saw	23 mm	cutting depth 25 mm	39680-23
Hole Saw	24 mm	cutting depth 25 mm	39680-24
Hole Saw	25 mm	cutting depth 25 mm	39680-25
Hole Saw	26 mm	cutting depth 25 mm	39680-26
Hole Saw	27 mm	cutting depth 25 mm	39680-27
Hole Saw	28 mm	cutting depth 25 mm	39680-28
Hole Saw	29 mm	cutting depth 25 mm	39680-29
Hole Saw	30 mm	cutting depth 25 mm	39680-30

Hole Saw Set, carbide, flat cut, 11 pcs., ø 12-30 mm

- 11 hole saws with ø 12, 14, 16, 18, 20, 22, 24, 25, 26, 28 and 30 mm
- for V2A, V4A (each up to 2 mm), steel, cast steel, non-ferrous metals, wood, plastic, plasterboard, aerated concrete, etc.
- the special design enables better guidance of the hole saw as well as fast and easy drilling performance
- the resulting lower cutting pressure prevents deformation of the material
- centre drill with 3-edged shank to prevent slipping in the drill chuck
- ejection spring for easy removal of the drill core
- for use in hand and stationary drilling machines
- maximum possible cutting depth: 25 mm (depending on material)

Content	Ø	Description	Art. No.
Hole Saw	12 mm	cutting depth 25 mm	39680-12
Hole Saw	14 mm	cutting depth 25 mm	39680-14
Hole Saw	16 mm	cutting depth 25 mm	39680-16
Hole Saw	18 mm	cutting depth 25 mm	39680-18
Hole Saw	20 mm	cutting depth 25 mm	39680-20
Hole Saw	22 mm	cutting depth 25 mm	39680-22
Hole Saw	24 mm	cutting depth 25 mm	39680-24
Hole Saw	25 mm	cutting depth 25 mm	39680-25
Hole Saw	26 mm	cutting depth 25 mm	39680-26
Hole Saw	28 mm	cutting depth 25 mm	39680-28
Hole Saw	30 mm	cutting depth 25 mm	39680-30

Item	Ø	Description	pcs	Art. No.
Hole Saw Set	12-30 mm	cutting depth 25 mm	11	39680

accessory

Item	Art. No.
Spare Drill for Hole Saw No. 39680, ø 6mm x 76 mm long	39680-BO

Workshop Files Set, 200 mm, 5 pcs.

- versatile and precise – 5 popular sizes for metal working
- cut 2 – ideal for universal application
- high removal – extremely long-lasting due to specially hardened steel
- non-slip handle with hanging hole
- total length: 315 mm

Content	Description	Length	Art. No.
Workshop File	flat (Form B)	200 mm	*5950-B*
Workshop File	halfround (Form E)	200 mm	*5950-E*
Workshop File	round (Form F)	200 mm	*5950-F*
Workshop File	square (Form D)	200 mm	*5950-D*
Workshop File	triangular (Form C)	200 mm	*5950-C*

Item	Description	pcs	Art. No.
Workshop Files Set	DIN 7261	5	5950

Workshop Files Set, 250 mm, 5 pcs.

- versatile and precise – 5 popular sizes for metal working
- cut 2 – ideal for universal application
- high removal – extremely long-lasting due to specially hardened steel
- non-slip handle with hanging hole
- total length: 365 mm

Content	Description	Length	Art. No.
Workshop File	flat (Form B)	250 mm	*5951-B*
Workshop File	halfround (Form E)	250 mm	*5951-E*
Workshop File	round (Form F)	250 mm	*5951-F*
Workshop File	square (Form D)	250 mm	*5951-D*
Workshop File	triangular (Form C)	250 mm	*5951-C*

Item	Description	pcs	Art. No.
Workshop Files Set	DIN 7261	5	5951

Diamond Needle File Sets, 10 pcs.

- dip-insulated handles

Item	Description	Length	Width	pcs	Art. No.
Diamond Needle File Set	straight type	140 mm	3 mm	10	59-1
Diamond Needle File Set	bent	140 mm	3 mm	10	59-2

Needle File Set, 6 pcs.

- plastic handles

Item	Length	pcs	Art. No.
Needle File Set	100 mm	6	62

Files

- ideal for cleaning spark plug contacts
- single-cut

Item	Length	Quantity	Art. No.
File Set	150 mm	6 pcs.	63
File	150 mm	1 pcs.	9503

Holesaw Kit, 12 pcs.

- for wood, leight building boards, plastics, soft metals, aluminium etc.
- content:
  1 pilot drill 6 mm
  2 arbors
  9 holesaws: ø 19, 22, 28, 36, 44, 51, 60, 68, 82 mm

Item	Description	pcs	Art. No.
Holesaw Kit	cutting depth 25 mm	12	689

Scissor Set, 4 pcs.

- manufactured from stainless steel, plastic handle
- 1 dressmaking shears 250 mm
- 1 household scissors 210 mm
- 1 sewing scissors 140 mm
- 1 divider 120 mm

Item	pcs	Art. No.
Scissor Set	4	705

Miscellaneous

Workshop Creeper

- solid fiber construction
- 6 casters for convenient movement
- storage areas for small parts
- padded head-rest

Item	max. load	Width	Length	Height	Art. No.
Workshop Creeper	130 kg	475 mm	1000 mm	130 mm	9200

accessory

Item	Art. No.
Spare Caster for Workshop Creeper	9200-01

Workshop Creeper

- solid metal frame
- 6 rubber casters with ball bearing
- padded cover with raised head-rest

Item	max. load	Width	Length	Height	Art. No.
Workshop Creeper	130 kg	420 mm	1000 mm	100 mm	9202

accessory

Item	Art. No.
Spare Caster for Workshop Creeper	9204-01

Foldable Mechanics Creeper / Seat

- converts easily from creeper to seat by folding
- solid metal frame
- 6 rubber casters with ball bearing
- locking function prevents accidental unfolding
- hard-wearing and padded cover

Item	max. load	Width	Length	Height	Art. No.
Foldable Mechanics Creeper / Seat	130 kg	420 mm	1020 (520) mm	100 (450) mm	9204

accessory

Item	Art. No.
Spare Caster for Workshop Creeper	9204-01

Mechanics Protection Mats

- provides comfort when working under the vehicle
- thermo-insulating, dirt and moisture repellent material
- oil and fuel resistant
- with carrying handle

Item	Width	Length	Height	Art. No.
Mechanics Protection Mat	320 mm	480 mm	30 mm	9226
Mechanics Protection Mat	500 mm	1150 mm	30 mm	9227

Mechanics Protection Mat, foldable, 1200x435x35 mm

- provides comfort when working under the vehicle
- thermo-insulating, dirt and moisture repellent material
- oil and fuel resistant
- foldable, with carrying handle
- requires little storage space

Item	Width	Length	Height	Art. No.
Mechanics Protection Mat	435 mm	1200 mm	35 mm	9220

Seat Protector, nylon

- protects car seats from dirt and staining
- oil, grease and water resistant
- universal size, suitable for all popular cars
- extra lightweight nylon material
- washable at 40° C

Item	Width	Length	Material	Art. No.
Seat Protector	73 cm	142 cm	nylon	9240

Fender Cover

- magnetic
- protects against dirt, oil and damage to paintwork

Item	Width	Height	Art. No.
Fender Cover	79 cm	59 cm	3801

Air Inflating Thrust Pillow

- avoids damage when opening car doors
- suitable for many applications concerning assembly and disassembly, e.g. interior panels, levelling during door assembly
- also suitable for builders, e.g. for alignment when fitting windows or door frames
- with bellows and release valve, quick and easy to use
- firm material for high pressure

Item	Width	Length	Art. No.
Air Inflating Thrust Pillow	150 mm	200 mm	3714

Engine Support

- for temporary lifting and holding of engines and gearboxes
- solid square tube design
- adjustable width
- stand with rubber sleeves to protect against scratches
- 2 pcs. load hooks with threaded rods M20x2.5
- 2 pcs. lifting chains
- chain length: 97 cm
- total weight (without chains): 16.5 kg

Item	max. load	Length	Art. No.
Engine Support	500 kg	1500 mm	3852

Induction Heater, 1.75 kW

- powerful heater with induction technology
- quick, focussed and efficient heating, prevents damage to surroundings
- quick and easy to use
- includes 4 durable heating coils (wire: 4 mm)
- extendable system, additional coils available as accessory
- suitable for many applications on cars and trucks
- for easy loosening of corroded and tight connections and joints, also for separating rigid glued and soldered connections
- applications:
  screws, nuts, rivets and bolts
  steering (e.g. adjusting screws, wheel alignment)
  exhaust pipe clamps, lines, lambda sensors, injectors, glow plugs etc.
  running gear components, tight bearings, ball joints, brakes etc.
  glued screw connections
  heating of bearings seats for disassembly / assembly
- also ideal for bodywork applications, e.g.:
  hail dents
  prepration for tinning
  separation of glued sheet metal
  removal of foil and other coating
- ideal as alternative to burners with open flames, offering more safety
- manufactured in Europe
- technical data:
  connection: 230 V (max. 7.5 A)
  power: max. 1.75 kW
  power input: max. 1.5 kW
  safety class: IP20
  weight: 4.5 kg

Content	Inner-Ø	Outer-Ø	Length	Art. No.
Induction Heater				*9290-01*
Straight Heating Coil	19 mm	29 mm	220 mm	9290-02
Straight Heating Coil	26 mm	37 mm	220 mm	9290-03
Flat Heating Coil	25 mm	60 mm	230 mm	9290-04
Flexible Heating Coil		4 mm	800 mm	9290-05

Item	Power	Width	Length	pcs	Art. No.
Induction heater	1.75 kW	90 mm	205 mm	5	9290

Focus Heating Coil, 27 mm x 220 mm

- for applications which require focussed heat, e.g. screw and rivet connections
- the coil enables precise heating without damaging surrounding components

Item	Width	Length	Art. No.
Focus Heating Coil	27 mm	220 mm	9290-07

Flexible Ceramic Heating Coil, ø 11.5 mm x 800 mm

- for applications which require heat over a longer period and for which standard coils are too rigid
- the coil should be wrapped around the component at least 3 times for best results

Item	Outer-Ø	Length	Art. No.
Flexible Ceramic Heating Coil	11.5 mm	800 mm	9290-06

Wire Heating Coil, ø 4.5 mm x 1000 mm

- for applications for which standard coils are too rigid
- the wire coil can be fitted individually to each component
- the coil should be wrapped around the component at least 3 times for best results

Item	Outer-Ø	Length	Art. No.
Wire Heating Coil	4.5 mm	1000 mm	9290-08

Induction Heater, 1.2 kW

- powerful heater with induction technology
- quick, focussed and efficient heating, prevents damage to surroundings
- compact, light, quick and easy to use
- includes 4 durable heating coils (wire: 4 mm)
- extendable system, additional coils available as accessory
- suitable for many applications on cars and trucks
- for easy loosening of corroded and tight connections and joints, also for separating rigid glued and soldered connections
- applications:
  screws, nuts, rivets and bolts
  steering (e.g. adjusting screws, wheel alignment)
  exhaust pipe clamps, lines, lambda sensors, injectors, glow plugs etc.
  running gear components, tight bearings, ball joints, brakes etc.
  glued screw connections
  heating of bearings seats for disassembly / assembly
- also ideal for bodywork applications, e.g.:
  hail dents
  prepration for tinning
  separation of glued sheet metal
  removal of foil and other coating
- ideal as alternative to burners with open flames, offering more safety
- manufactured in Europe
- technical data:
  connection: 230 V (max. 5.4 A), protective cut-off at max. 6.3 A
  power: max. 1.2 kW
  safety class: IP20
  weight: 1.0 kg

Content	Inner-Ø	Outer-Ø	Length	Art. No.
Induction heater				*9292-01*
Straight Heating Coil	19 mm	29 mm	220 mm	9290-02
Straight Heating Coil	26 mm	37 mm	220 mm	9290-03
Flat Heating Coil	25 mm	60 mm	230 mm	9290-04
Flexible Heating Coil		4 mm	800 mm	9290-05

Item	Power	pcs	Art. No.
Induction heater	1.2 kW	5	9292

Pocket Gas Torch

- ideal for quick heating, e.g. soldering, shrinking, flambé
- piezo auto-ignition
- lock switch
- flame regulator
- operating temperature 1.300 °C
- uses conventional light gas

Item	Art. No.
Pocket Gas Torch	9295

Auto-Ignition Gas-Powered Heat Tool

- multifunctional
- uses butane gas with piezo ignition
- compact and handy construction
- ideal for mobile applications in hard to reach areas
- multifunctional, e.g. for soldering, welding, shrinking or tinnin
- continuously variable temperature

technical data:
- power: 30 - 125 W
- temperature of soldering tip / hot knife tip / heat blower tip: 250 ~ 500 °C
- temperature without tip (blow torch): 1300 °C
- gas capacity: 20 ml
- power source: butane gas (100%)

Item	Description	Art. No.
Auto-Ignition Gas-Powered Heat Tool	power 30 - 125 W	9299

Soldering Wire

- 40 % Sn, 60 % Pb
- 2.5 % flux content according to DIN EN ISO 9454

Only for commercial users!

Item	Description	Art. No.
Soldering Wire	100 g	40204
Soldering Wire	250 g	40205
Soldering Wire	500 g	40206

Soldering Grease, 50 g can

- for general soldering work, e.g. soft soldering, tinning
- complies with DIN EN ISO 9454-1

Item	Description	Art. No.
Soldering Grease	50 g	40207

Angled Pry Bar Set, 3 pcs.

- flexible head, lockable in 15 positions
- quick locking function with press button on head
- very versatile, suitable for e.g. bearings, pulleys, seals, wheel hubs

Content	Length	Art. No.
Angled Pry Bar	250 mm	*5469-250*
Angled Pry Bar	300 mm	*5469-300*
Angled Pry Bar	380 mm	*5469-380*

Item	pcs	Art. No.
Angled Pry Bar Set	3	5469

Telescopic Pry Bar with Adjustable Jaw

- adjustable pry bar for maximum leverage in narrow spaces
- flexible jaw
- telescopic handle
- press button for quick-lock function
- extra slim design
- universal application for cars and commercial vehicles

Item	Length	Art. No.
Telescopic Pry Bar with Adjustable Jaw	340-470 mm	5462
Telescopic Pry Bar with Adjustable Jaw	610-940 mm	5463
Telescopic Pry Bar with Adjustable Jaw	865-1350 mm	5464

Pry Bars

- 16 mm square profile, hardened and tempered for higher strength
- head end flattened and 25° angled
- solid plastic handle with striking cap
- universal application for cars and commercial vehicles

Item	Length	Art. No.
Pry Bar	600 mm	8268
Pry Bar	900 mm	8269

Pry Bars

- 2-component handles, with striking cap
- hardened chrome-molybdenum-steel

Item	Blade Length	Blade Width	Length	Art. No.
Pry Bar	90 mm	11 mm	200 mm	8260
Pry Bar	185 mm	15 mm	300 mm	8261
Pry Bar	310 mm	18 mm	450 mm	8262

Pry Bar Set, 5 pcs., 200-600 mm

- hardened and forged carbon steel

Item	Length	pcs	Art. No.
Pry Bar Set	200, 300, 400, 450, 600 mm	5	5461

Pry Bar Set, 4 pcs.

- hardened carbon steel, 2-component handles

Item	Length	pcs	Art. No.
Pry Bar Set	200, 300, 450, 600 mm	4	5460

Neodym Magnetic Pad, ultra strong, 4 magnets, 114x114 mm

Item	Size	Art. No.
Neodym Magnetic Pad	114x114 mm	9591

Neodym Magnetic Pad, ultra strong, 5 magnets, 305x50 mm

Item	Size	Art. No.
Neodym Magnetic Pad	305x50 mm	9592

Neodym Magnetic Pad, ultra strong, 15 magnets, 250x200 mm

Item	Size	Art. No.
Neodym Magnetic Pad	280x200 mm	9593

Magnetic Socket Holder

Item	Description	Drive	Length	Art. No.
Magnetic Socket Holder	holds up to 10 sockets	1/4"	170 mm	9585-1
Magnetic Socket Holder	holds up to 12 sockets	3/8"	310 mm	9585-2
Magnetic Socket Holder	holds up to 10 sockets	1/2"	322 mm	9585-3

Magnetic Tool Holding Bars

- suitable for many applications
- for safe and ready-to-use storage of tools
- for wall fixing

Item	Length	Art. No.
Magnetic Tool Holding Bar	600 mm	393EX

Magnetic Parts Tray

- provides safe storage of small parts during assembly jobs
- special shape with high border on one side, designed to also hold non-magnetic parts made from e.g. aluminium, brass, stainless steel or plastic
- magnet with rubber coating, protects against scratches on contact surface
- made from firm ABS material

Item	Width	Length	Height	Art. No.
Magnetic Parts Tray	150 mm	150 mm	130 mm	9580

Magnetic Parts Tray

- provides safe storage of small parts during assembly jobs
- made from stainless steel
- magnet with rubber coating, protects against scratches on contact surface

Item	Ø	Height	Art. No.
Magnetic Parts Tray	150 mm	28 mm	3545

Magnetic Parts Tray

- provides safe storage of small parts during assembly jobs
- made from stainless steel
- magnet with rubber coating, protects against scratches on contact surface

Item	Width	Length	Height	Art. No.
Magnetic Parts Tray	270 mm	290 mm	40 mm	9582

Lever Grease Gun

- with delivery pipe, connector and 300 mm flexible delivery tube
- for cartridges 400 g or bulk filling
- thread M10 x 1

Item	Length	Art. No.
Lever Grease Gun	340 mm	3980

Lever Grease Gun Accessory

Item	Length	Art. No.
Flexible Delivery Tube	300 mm	3980A
Flexible Delivery Tube	500 mm	3980B
Connector	38 mm	3980D

Pistol Type Grease Gun

- 120 ccm for cartridge or bulk filling
- 1 delivery pipe with connector
- 1 flexible hose 300 mm
- 1 extension pipe 115 mm

Item	Capacity	Art. No.
Pistol Type Grease Gun	120 ccm	3985

Grease Gun Accessory Kit, 7 pcs.

- all parts with support tube to avoid slipping off the nozzle
- 90° angle adapter, for 1/4" lubricating nipple, similar DIN 71412
- tube attachment, for ball type lubricating nipple, similar DIN 3402 (in former GDR)
- hose extension 380 mm, for 1/4" lubricating nipple, similar DIN 71412
- 90° angle adapter, for 8 mm flat type lubricating nipple, similar DIN 3404
- tube attachment with rubber cone, for cup head lubricating nipple, similar DIN 3402
- tube attachment with metal tip, for cup head lubricating nipple, similar DIN 3402
- 360° lockable angle adapter, for 1/4" lubricating nipple, similar DIN 71412

Item	pcs	Art. No.
Grease Gun Accessory Kit	7	3981

Grease Gun

Item	Capacity	Art. No.
Grease Gun	110 g	3982

Precision Oiler

- dispenses drop by drop for clean and precise work

Item	Description	Art. No.
Precision Oiler	aluminium housing	3987

332A

Caulking Guns

Item	Description	Capacity	Art. No.
Caulking Gun	aluminium housing	310 ml	332A
Caulking Gun	toothed rack		330

330

Scrapers

- lacquered oval wood handle, diy-quality

Item	Width	Art. No.
Scrapers	30 mm	68-30
Scraper	40 mm	68-40
Scraper	50 mm	68-50
Scraper	60 mm	68-60
Scraper	80 mm	68-80
Scraper	100 mm	68-100

Scraper Set, 4 pcs.

- flexible spring band steel
- rear side made from solvent resistant plastic

Item	Width	pcs	Art. No.
Scraper Set, spring band steel	50, 80, 100, 120 mm	4	390

Car Body Scraper Set, 4 pcs.

- for car body, wood and all sensitive materials
- flexible
- nitro resistant

Item	Width	pcs	Art. No.
Scraper Set, for car body, flexible plastic	50, 75, 100, 120 mm	4	390A

Contour Gauge

- for easy copying and transfer of contours, e.g. when creating precisely fitting car body sheets for welding work
- for copying contours up to 255 mm wide and 30 mm deep
- 4 magnets for fixing on metallic surfaces

Item	Length	Art. No.
Contour Gauge	250 mm	635-2

Magnetic Welding Clamps

- ideal support for soldering, welding and assembling jobs

Item	Description	Length Each Side	Art. No.
Magnetic Welding Clamp	45°, 90°, 135°	75 mm	429
Magnetic Welding Clamp	45°, 90°, 135°, heavy duty	90 mm	429A

Scriber

Item	Description	Art. No.
Scriber	with retractable tip	5930

Glas Scraper

- solid plastic body
- with replaceable trapezoid blade 60 mm

Item	Length	Art. No.
Glas Scraper	170 mm	815

Ratchet Tie Down

3755-1

- lashing capacity LC = 125 daN

Item	Description	Width	Length	Art. No.
Ratchet Tie Down	one-piece	25 mm	5 m	3755-1
Ratchet Tie Down	two-piece, 2 hooks	25 mm	0.25 / 5 m	3755-2

3755-2

Ratchet Tie Down

- lashing capacity LC = 750 daN

Item	Description	Width	Length	Art. No.
Ratchet Tie Down	two-piece, 2 hooks	38 mm	0.25 / 5 m	3756

Ear Protection

- adjustable shells for different head sizes
- low contact pressure (10.2 N) for high comfort
- CE EN 352-1:2002

Item	Art. No.
Ear Protection	9250

Safety Goggles

- full visibility with CE EN166
  !!! WARNING: does not protect against dripping liquids !!!

Item	Art. No.
Safety Goggles	9251

Safety Kit

- 1 ear protection En352
- 1 protection goggles En166
- 1 dust mask En149

Item	pcs	Art. No.
Safety Kit	3	3705

Leather Tool Pouch

- heavy duty split leather, adjustable belt size
- stitched and riveted
- 11 pockets respectably inserts
- 2 leather loops, 1 tape holder

Item	Width	Length	Art. No.
Leather Tool Pouch	210 mm	550 mm	3955

Tool Boxes, empty

- adjustable compartments
- removable tool tray
- lockable

Item	Description	Width	Length	Height	Art. No.
Tool Box	aluminium	150 mm	460 mm	340 mm	154-1

Pocket Spring Balances

- brass plated scale, zinc plated hook and ring

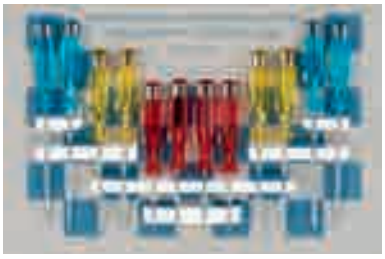
Item	Measuring Range	Art. No.
Pocket Spring Balance	max. 12.5 kg	225-1
Pocket Spring Balance	max. 25 kg	225-2
Pocket Spring Balance	max. 50 kg	225-3
Pocket Spring Balance	max. 100 kg	225-4
Pocket Spring Balance	max. 150 kg	225-5

Radio Screwdrivers, with stand

- supplied in display stand
- radio screwdrivers with clip

Item	pcs	Art. No.
Radio Screwdrivers	60	595

Radio Screwdrivers on Card, 12 pieces



Item	pcs	Art. No.
Radio Screwdrivers, with metal clip	12	593
Radio Screwdrivers, with plastic clip	12	594

Revolving Punch Pliers

- nickel plated, sheet steel, diy-quality

Item	Description	Length	Art. No.
Revolving Punch Pliers	punch-ø: 2.4, 2.7, 3.0, 3.2, 4.0, 5.0 mm	200 mm	268

Brass Padlocks

- brass, each with 3 keys

Item	Width	pcs	Art. No.
Brass Padlock Set	25, 30, 40 mm	3	140-3
Brass Padlock	25 mm		140-25
Brass Padlock	30 mm		140-30
Brass Padlock	40 mm		140-40

Tweezer Set, 4 pcs.

- stainless
- 1 long straight tweezer
- 1 curved tweezer
- 1 self closing tweezer
- 1 spade tweezer

Item	pcs	Art. No.
Tweezer Set	4	428

Heavy Duty Staple Gun

- solid and powerful
- continuous adjustment of punching force

Item	Description	Art. No.
Heavy Duty Staple Gun	for staples 4 - 14 mm	336

accessory

Item	Art. No.
Staples, 1000 pcs., 6 mm	338-6
Staples, 1000 pcs., 14 mm	338-14

Staples

Hot Glue Cartridges

- transparent

Item	Ø	Length	Quantity	Art. No.
Hot Glue Cartridges	11 mm	200 mm	16 pcs.	122-16

Marker Pens

- waterproof, suitable for almost all surfaces
- point 2.0 mm

Item	Colour	pcs	Art. No.
Marker Pens	red, blue, black	3	699

Carpenters Pencils

Item	Length	Quantity	Art. No.
Carpenters Pencils	250 mm	12 pcs.	643
Carpenters Pencils	175 mm	12 pcs.	644

Marker Pens, 50 pcs. in sales display jar

- waterproof, suitable for almost all surfaces, e.g. steel, plastic, wood, stone
- also suitable for dusty or wet surfaces
- fine point 1.5 mm
- perfect for the sales counter

Item	Colour	Quantity	Art. No.
Marker Pens	blue	50 pcs.	8300-B
Marker Pens	red	50 pcs.	8300-R
Marker Pens	black	50 pcs.	8300-S

Magnetic Bit Holders, 30 pcs. in sales display jar

- perfect for the sales counter

Item	Drive	Length	Quantity	Art. No.
Magnetic Bit Holders	1/4" hex	60 mm	30 pcs.	8310

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