Condor® werkzeug

est 1973



Catalogue 2018 / 2019

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1 Tool Cabinets



Tool Cabinet XL, empty

- 7 drawers (5 flat, 2 large), incl. 7 non-slip drawer linings
- work top made from Multiplex, oiled ecologically friendly, 30 mm
- loading capacity per drawer: 40 kg (top drawer 60 kg)
- single drawer locking
- drawers pullout 100%
- ball-bearing telescopic slides (top drawer with twin slides)
- central locking with 2 keys
- both side panels with square perforated hole pattern
- both side panels recessed
- corner protection
- handle assembly on both sides possible
- total loading capacity: 500 kg
- 2 swivel casters with brake (ø 125 mm), 2 fixed casters (ø 125 mm)
- inner dimensions top drawer: 125 x 930 x 400 mm (h x w x d)
- 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 storage: 600 x 330 x 460 mm (h x w x d)
- dimensions: 1055 x 1105 x 490 mm (h x w x d)
- weight (empty): 101 kg

Item	Art. No.
Tool Cabinet XL	7017



Tool Cabinet, empty

- 8 drawers (7 flat, 1 large), incl. 8 non-slip drawer linings
- work top made from ABS, incl. 3 can holders and 5 small parts storage spaces
- loading capacity per drawer: 40 kg
- single drawer locking
- mutual drawer locking, avoids tilting risk
- drawers pullout 100%
- ball-bearing telescopic slides
- central locking with 2 keys
- both side panels with square perforated hole pattern
- 1 side panel recessed
- corner protection
- 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: 1025 x 715 x 467 mm (h x w x d)
- weight (empty): 68 kg

Item	Art. No.
Tool Cabinet	7000

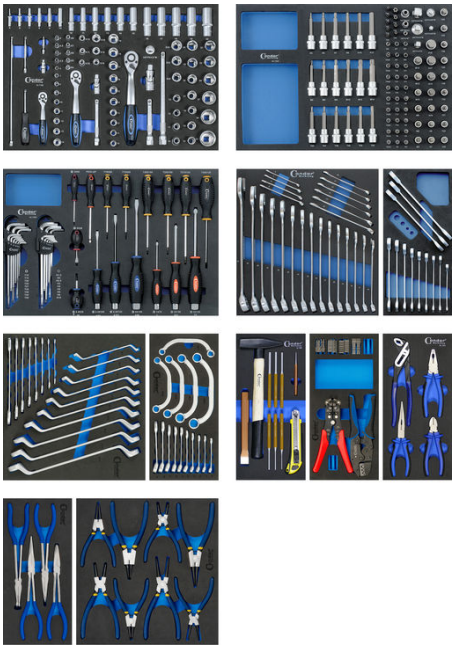


Tool Cabinet, empty

- 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

Tool Cabinet, loaded, 309 pcs.



- 7 drawers fully loaded with 309 tools

Item	pcs	Art. No.
Tool Cabinet No. 7000, loaded	309	7000/L01
Tool Cabinet No. 7029, loaded	309	7029/L01

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 3/3, 87 pcs., 1/4+1/2"	7200
Screwdriver Set in Foam 3/3, 34 pcs.	7250
Combination Spanner Set No. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Ratchet Spanner Set in Foam 1/3, 12 pcs., 8-19 mm	7350
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
Crimping Pliers in Foam 1/3, 7 pcs.	7227
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

Tool Cabinet, loaded, 294 pcs.



- 6 drawers fully loaded with 294 tools

Item	pcs	Art. No.
Tool Cabinet No. 7000, loaded	294	7000/L02
Tool Cabinet No. 7029, loaded	294	7029/L02
Tool Cabinet No. 7017, loaded	294	7017/L02

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 3/3, 87 pcs., 1/4+1/2"	7200
Screwdriver Set in Foam 3/3, 34 pcs.	7250
Combination Spanner Set No. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Ratchet Spanner Set in Foam 1/3, 12 pcs., 8-19 mm	7350
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
Pliers No. 1183 + 5730 in Foam 1/3, 4 pcs.	7274
Pliers Set in Foam 1/3, 4 pcs.	7270
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290

Tool Cabinet, loaded, 265 pcs.



- 5 drawers fully loaded with 265 tools

Item	pcs	Art. No.
Tool Cabinet No. 7000, loaded	265	7000/M02
Tool Cabinet No. 7029, loaded	265	7029/M02
Tool Cabinet No. 7017, loaded	265	7017/M02

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 3/3, 87 pcs., 1/4+1/2"	7200
Screwdriver Set in Foam 3/3, 34 pcs.	7250
Combination Spanner Set No. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Ring Spanners No. 2140/8T in Foam 1/3, 8 pcs., 6-22 mm	7340
Ratchet Spanner Set in Foam 1/3, 12 pcs., 8-19 mm	7350
Pliers Set in Foam 1/3, 4 pcs.	7270
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290

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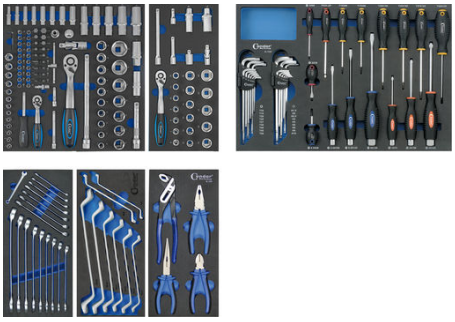
Tool Cabinet, loaded, 217 pcs.

- 4 drawers fully loaded with 217 tools

Item	pcs	Art. No.
Tool Cabinet No. 7000, loaded	217	7000/M01
Tool Cabinet No. 7029, loaded	217	7029/M01
Tool Cabinet No. 7017, loaded	217	7017/M01

with soft foam trays

Item	Art. No.
Socket Set in Foam 2/3, 98 pcs., 1/4+1/2", hex 4-32 mm	7198
Socket and Socket Bit Set in Foam 1/3, 34 pcs., 1/2"	7135
Screwdriver Set in Foam 3/3, 34 pcs.	7250
Combination Spanner Set No. 2135 in Foam 2/3, 25 pcs., 6-32 mm	7300
Ring Spanners No. 2140/8T in Foam 1/3, 8 pcs., 6-22 mm	7340
Pliers Set in Foam 1/3, 4 pcs.	7270
Pliers No. 1183 + 5730 in Foam 1/3, 4 pcs.	7274
Hammer and Punch Set in Foam 1/3, 10 pcs.	7290



Tool Cabinet, loaded, 187 pcs.

- 3 drawers fully loaded with 187 tools

Item	pcs	Art. No.
Tool Cabinet No. 7000, loaded	187	7000/S01
Tool Cabinet No. 7029, loaded	187	7029/S01
Tool Cabinet No. 7017, loaded	187	7017/S01

with soft foam trays

Item	Art. No.
Socket Set in Foam 2/3, 98 pcs., 1/4+1/2", hex 4-32 mm	7198
Socket Set in Foam 1/3, 26 pcs., 3/8"	7138
Screwdriver Set in Foam 3/3, 34 pcs.	7250
Combination Spanners No. 35/17T in Foam, 17 pcs., 6-24 mm	7321
Ring Spanners No. 10/8T in Foam 1/3, 8 pcs., 6-22 mm	7341
Pliers Set in Foam 1/3, 4 pcs.	7270



Tool Cabinet, loaded, 149 pcs.

- 2 drawers fully loaded with 149 tools

Item	pcs	Art. No.
Tool Cabinet No. 7000, loaded	149	7000/S02
Tool Cabinet No. 7029, loaded	149	7029/S02
Tool Cabinet No. 7017, loaded	149	7017/S02

with soft foam trays

Item	Art. No.
Socket Set in Foam 2/3, 98 pcs., 1/4+1/2", hex 4-32 mm	7198
Combination Spanners No. 35/17T in Foam, 17 pcs., 6-24 mm	7321
Screwdriver Set in Foam 3/3, 34 pcs.	7250

Suspension Rail with 7 hooks, for tool cabinet



- e.g. for screwdrivers
- accessory for tool cabinets No. 7000 and 7029
- 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. 7000 and 7029
- 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

Storage Box, for tool cabinet



- accessory for tool cabinets No. 7000 and 7029
- 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.



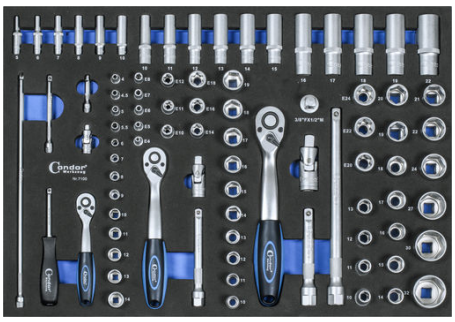
- with magnetic fixing
- universal accessory for tool cabinets, work benches etc.
- magnets with rubber coating, protects against scratches on contact surface
- 1x tray with inner dimension 310x115x30 mm (lxwxh), capacity 1.17 kg, 4 magnets
- 1x tray with inner dimension 210x115x30 mm (lxwxh), capacity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

1 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, 85 pcs., 1/4+3/8+1/2"



Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Extension Bar, 1/4", 300 mm	21107
Universal Joint, 1/4"	21125
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1205/2
Extension Bar, 3/8", 125 mm	21503
Universal Joint, 3/8"	21525
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
T-Head, 1/2"	*21901*
Universal Joint, 1/2"	21925

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

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

Screwdriver Set in Foam 3/3, 34 pcs.



Miscellaneous Tools	
Ball End Key Set, 9 pcs., long, hex 1.5-10 mm	1121/1
Key Set, 9 pcs., long, TX-Star T10-50	1121/2
Magnetic Pick-Up Tool, telescopic	930/M

Content		8x150 mm	930/817	T10x80 mm	930/103
Screwdriver		Cross Slot PH		T15x80 mm	930/153
Plain Slot		PH2x38 mm	930/208	T20x100 mm	930/203
6.5x38 mm	930/607	PH1x75 mm	930/118	T25x100 mm	930/253
3x60 mm	930/317	PH2x100 mm	930/218	T27x125 mm	930/273
5.5x100 mm	930/517	PH3x125 mm	930/318	T30x125 mm	930/303
6.5x125 mm	930/617	TX-Star			

Item	pcs	Art. No.
Screwdriver Set in Foam	34	7250

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

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

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

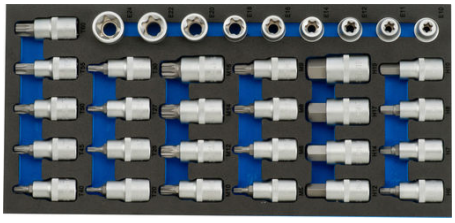


Drive Tools / Accessory, 1/4"	
Socket Converter, 1/4" female x 3/8" male	20601
Bit Holder, 1/4", for 1/4" bits	20624
Drive Tools / Accessory, 3/8"	
Socket Converter, 3/8" female x 1/2" male	20604
Bit Holder, 3/8", for 8 mm bits	20623
Drive Tools / Accessory, 1/2"	
Socket Converter, 1/2" female x 3/8"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

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

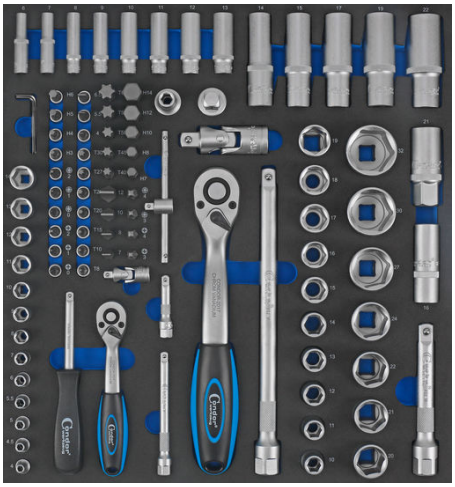
Content		T25	12033/25	14 mm	12022/14
TX-Star		T27	12033/27	17 mm	12022/17
1/2", standard		T30	12033/30	19 mm	12022/19
E10	22440/E10	T40	12033/40	Spline	
E11	22440/E11	T45	12033/45	1/2", 55 mm long	
E12	22440/E12	T50	12033/50	M5	12011/5
E14	22440/E14	T55	12033/55	M6	12011/6
E16	22440/E16	T60	12033/60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

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



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Socket Set in Foam 2/3, 98 pcs., 1/4+1/2", hex 4-32 mm

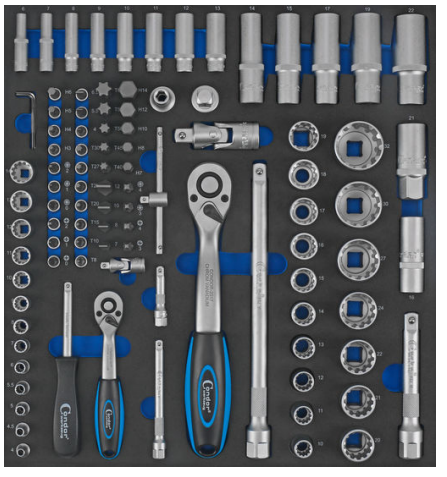


Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 255 mm	1205/3
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 8 mm bits	20621
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

Content					
hexagon		20 mm	22088/20	8 mm	17022/8
1/4", standard		21 mm	22088/21	10 mm	17022/10
4 mm	21288/4	22 mm	22088/22	12 mm	17022/12
4.5 mm	21288/4.5	24 mm	22088/24	14 mm	17022/14
5 mm	21288/5	27 mm	22088/27	Plain Slot	
5.5 mm	21288/5.5	30 mm	22088/30	1/4", 37 mm long	
6 mm	21288/6	32 mm	22088/32	4 mm	*14077/4*
7 mm	21288/7	1/2", deep		5.5 mm	*14077/5.5*
8 mm	21288/8	14 mm	22099/14	6.5 mm	*14077/6.5*
9 mm	21288/9	15 mm	22099/15	8 mm bit, 30 mm	
10 mm	21288/10	17 mm	22099/17	7 mm	*17077/7*
11 mm	21288/11	19 mm	22099/19	8 mm	*17077/8*
12 mm	21288/12	22 mm	22099/22	10 mm	*17077/10*
13 mm	21288/13	TX-Star		12 mm	*17077/12*
14 mm	21288/14	1/4", 37 mm long		Cross Slot PH	
1/4", deep		T8	14033/8	1/4", 37 mm long	
6 mm	21299/6	T10	14033/10	PH0	*14088/0*
7 mm	21299/7	T15	14033/15	PH1	*14088/1*
8 mm	21299/8	T20	14033/20	PH2	*14088/2*
9 mm	21299/9	T25	14033/25	8 mm bit, 30 mm	
10 mm	21299/10	T27	14033/27	PH3	*17088/3*
11 mm	21299/11	T30	14033/30	PH4	*17088/4*
12 mm	21299/12	8 mm bit, 30 mm		Cross Slot PZ	
13 mm	21299/13	T40	17033/40	1/4", 37 mm long	
1/2", standard		T45	17033/45	PZ0	*14099/0*
10 mm	22088/10	T50	17033/50	PZ1	*14099/1*
11 mm	22088/11	T55	17033/55	PZ2	*14099/2*
12 mm	22088/12	T60	17033/60	8 mm bit, 30 mm	
13 mm	22088/13	Hexagon		PZ3	*17099/3*
14 mm	22088/14	1/4", 37 mm long		PZ4	*17099/4*
15 mm	22088/15	3 mm	14022/3	Spark Plug Sockets	
16 mm	22088/16	4 mm	14022/4	1/2", standard	
17 mm	22088/17	5 mm	14022/5	16 mm	209A
18 mm	22088/18	6 mm	14022/6	21 mm	209
19 mm	22088/19	8 mm bit, 30 mm			
		7 mm	17022/7		

Item	Drive	pcs	Art. No.
Socket Set in Foam	1/4+1/2"	98	7198

Socket Set in Foam 2/3, 98 pcs., 1/4+1/2", varioplus 4-32 mm



Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105

Content					
Varioplus		12 mm	21266/12	17 mm	22066/17
1/4", standard		13 mm	21266/13	19 mm	22066/19
4 mm	21255/4	1/2", standard		22 mm	22066/22
4.5 mm	21255/4.5	10 mm	22055/10	TX-Star	
5 mm	21255/5	11 mm	22055/11	1/4", 37 mm long	
5.5 mm	21255/5.5	12 mm	22055/12	T8	14033/8
6 mm	21255/6	13 mm	22055/13	T10	14033/10
7 mm	21255/7	14 mm	22055/14	T15	14033/15
8 mm	21255/8	15 mm	22055/15	T20	14033/20
9 mm	21255/9	16 mm	22055/16	T25	14033/25
10 mm	21255/10	17 mm	22055/17	T27	14033/27
11 mm	21255/11	18 mm	22055/18	T30	14033/30
12 mm	21255/12	19 mm	22055/19	8 mm bit, 30 mm	
13 mm	21255/13	20 mm	22055/20	T40	17033/40
14 mm	21255/14	21 mm	22055/21	T45	17033/45
1/4", deep		22 mm	22055/22	T50	17033/50
6 mm	21266/6	24 mm	22055/24	T55	17033/55
7 mm	21266/7	27 mm	22055/27	T60	17033/60
8 mm	21266/8	30 mm	22055/30	Hexagon	
9 mm	21266/9	32 mm	22055/32	1/4", 37 mm long	
10 mm	21266/10	1/2", deep		3 mm	14022/3
11 mm	21266/11	14 mm	22066/14	4 mm	14022/4
		15 mm	22066/15	5 mm	14022/5

6 mm	14022/6	7 mm	*17077/7*	1/4", 37 mm long	
8 mm bit, 30 mm		8 mm	*17077/8*	PZ0	*14099/0*
7 mm	17022/7	10 mm	*17077/10*	PZ1	*14099/1*
8 mm	17022/8	12 mm	*17077/12*	PZ2	*14099/2*
10 mm	17022/10	Cross Slot PH		8 mm bit, 30 mm	
12 mm	17022/12	1/4", 37 mm long		PZ3	*17099/3*
14 mm	17022/14	PH0	*14088/0*	PZ4	*17099/4*
Plain Slot		PH1	*14088/1*	Spark Plug Sockets	
1/4", 37 mm long		PH2	*14088/2*	1/2", standard	
4 mm	*14077/4*	8 mm bit, 30 mm		16 mm	209A
5.5 mm	*14077/5.5*	PH3	*17088/3*	21 mm	209
6.5 mm	*14077/6.5*	PH4	*17088/4*		
8 mm bit, 30 mm		Cross Slot PZ			

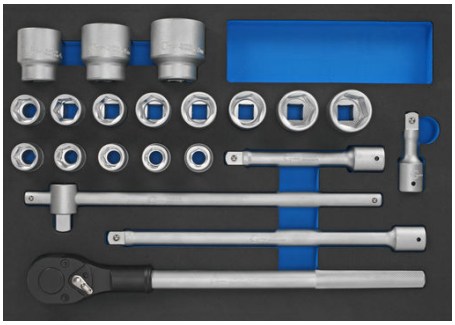
Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 255 mm	1205/3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	*21901*
Bit Holder, 1/2", for 8 mm bits	20621
Universal Joint, 1/2"	21925
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

Item	Drive	pcs	Art. No.
Socket Set in Foam	1/4+1/2"	98	7197

Socket Set in Foam 3/3, 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	28 mm	22600/28	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	34 mm	22600/34		

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

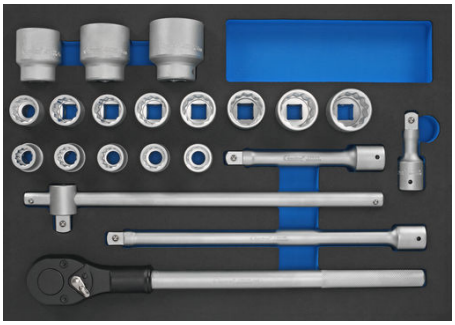


Drive Tools / Accessory, 3/4"	
Reversible Ratchet, 3/4", 500 mm	22550
Extension Bar, 3/4", 100 mm	22500
Extension Bar, 3/4", 200 mm	22505
Extension Bar, 3/4", 400 mm	22510
Sliding T-Bar, 3/4", 450 mm	22520

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

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

Item	Drive	pcs	Art. No.
Socket Set in Foam	3/4"	21	7133



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

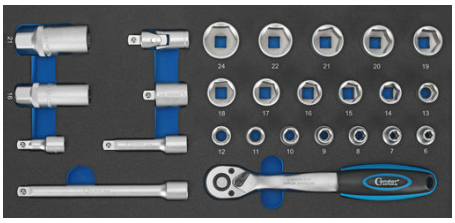


Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 255 mm	1205/3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
Universal Joint, 1/2"	21925
Sliding T-Bar, 1/2", 250 mm	21920

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

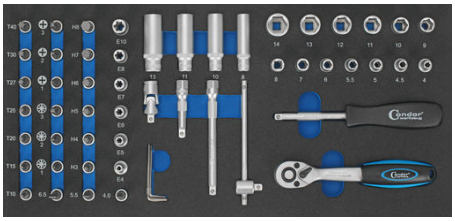


Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1205/2
Extension Bar, 3/8", 45 mm	*21502*
Extension Bar, 3/8", 75 mm	21500
Extension Bar, 3/8", 150 mm	21505
Sliding T-Head, 3/8"	*21501*
Universal Joint, 3/8"	21525

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

Socket Set in Foam 1/3, 54 pcs., 1/4"



Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
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
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

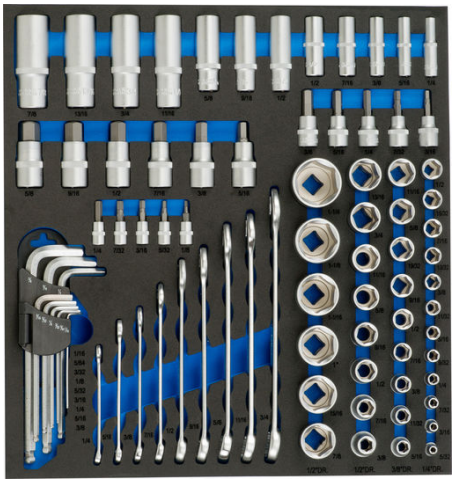
Content		TX-Star		5 mm	14022/5
hexagon		1/4", standard		6 mm	14022/6
1/4", standard		E4	22400/E4	7 mm	14022/7
4 mm	21288/4	E5	22400/E5	8 mm	14022/8
4.5 mm	21288/4.5	E6	22400/E6	Plain Slot	
5 mm	21288/5	E7	22400/E7	1/4", 37 mm long	
5.5 mm	21288/5.5	E8	22400/E8	4 mm	*14077/4*
6 mm	21288/6	E10	22400/E10	5.5 mm	*14077/5.5*
7 mm	21288/7	TX-Star		6.5 mm	*14077/6.5*
8 mm	21288/8	1/4", 37 mm long		Cross Slot PH	
9 mm	21288/9	T10	14033/10	1/4", 37 mm long	
10 mm	21288/10	T15	14033/15	PH1	*14088/1*
11 mm	21288/11	T20	14033/20	PH2	*14088/2*
12 mm	21288/12	T25	14033/25	PH3	*14088/3*
13 mm	21288/13	T27	14033/27	Cross Slot PZ	
14 mm	21288/14	T30	14033/30	1/4", 37 mm long	
1/4", deep		T40	14033/40	PZ1	*14099/1*
8 mm	21299/8	Hexagon		PZ2	*14099/2*
10 mm	21299/10	1/4", 37 mm long		PZ3	*14099/3*
11 mm	21299/11	3 mm	14022/3		
13 mm	21299/13	4 mm	14022/4		

Item	Drive	pcs	Art. No.
Socket Set in Foam	1/4"	54	7114

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

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



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

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

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



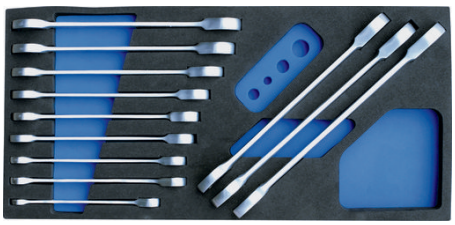
TX-Star and Hex Impact Socket Set in Foam 1/3, 18 pcs., 1/2"

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

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



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



- with storage space to include adapter set No. 4090

Content		10 mm	4100/10	15 mm	4100/15
Spanners		11 mm	4100/11	16 mm	4100/16
Ratchet Wrench		12 mm	4100/12	17 mm	4100/17
8 mm	4100/8	13 mm	4100/13	18 mm	4100/18
9 mm	4100/9	14 mm	4100/14	19 mm	4100/19

Item	pcs	Art. No.
Ratchet Spanner Set in Foam	12	7350

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 No. 35/25T in Foam 2/3, 25 pcs., 6-32 mm



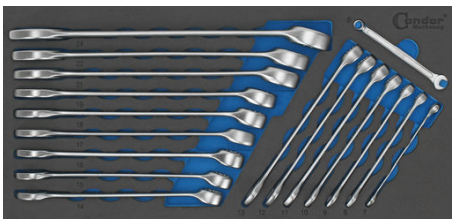
Content		13 mm	3525/13	23 mm	3525/23
Combination Spanner		14 mm	3525/14	24 mm	3525/24
chrome plated		15 mm	3525/15	25 mm	3525/25
6 mm	3525/6	16 mm	3525/16	26 mm	3525/26
7 mm	3525/7	17 mm	3525/17	27 mm	3525/27
8 mm	3525/8	18 mm	3525/18	28 mm	3525/28
9 mm	3525/9	19 mm	3525/19	30 mm	3525/30
10 mm	3525/10	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		10 mm	2136/10	17 mm	2136/17
Spanners		11 mm	2136/11	18 mm	2136/18
Combination Spanner		12 mm	2136/12	19 mm	2136/19
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		

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



Combination Spanners No. 35/17T in Foam, 17 pcs., 6-24 mm

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		

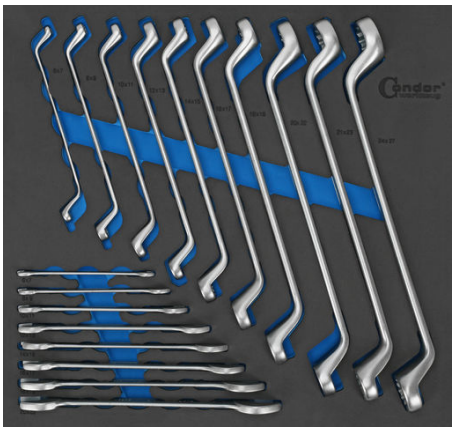
Item	pcs	Art. No.
Combination Spanners in Foam	17	7321



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

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

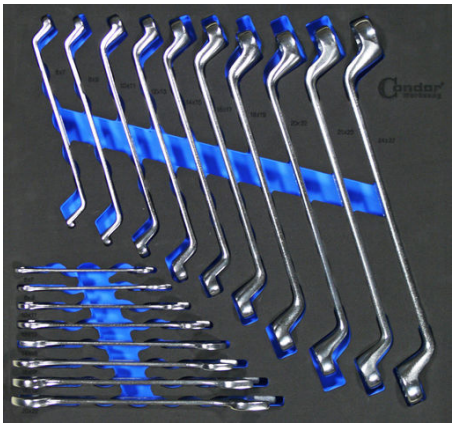
Item	pcs	Art. No.
Open End + Ring Spanners in Foam	18	7330



Open End 25/8T and Ring Spanners 10/10T in Foam 2/3, 18 pcs.

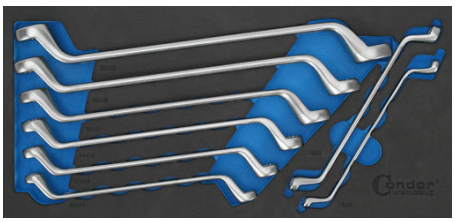
Content		16x17 mm	2512/16x17	8x9 mm	1012/8x9
Open Ended Spanners		18x19 mm	2512/18x19	10x11 mm	1012/10x11
chrome plated		20x22 mm	2512/20x22	12x13 mm	1012/12x13
6x7 mm	2512/6x7	21x23 mm	2512/21x23	14x15 mm	1012/14x15
8x9 mm	2512/8x9	24x27 mm	2512/24x27	16x17 mm	1012/16x17
10x11 mm	2512/10x11	Ring Spanners		18x19 mm	1012/18x19
12x13 mm	2512/12x13	deep offset		20x22 mm	1012/20x22
14x15 mm	2512/14x15	6x7 mm	1012/6x7		

Item	pcs	Art. No.
Open End and Ring Spanners in Foam	18	7331



1

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



Content		8x9 mm	2140/8x9	16x17 mm	2140/16x17
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		

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

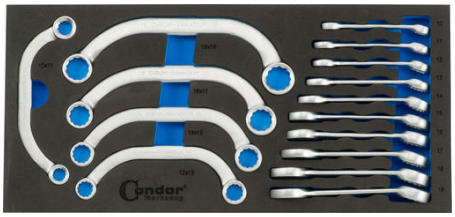
Ring Spanners No. 10/8T in Foam 1/3, 8 pcs., 6-22 mm



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	pcs	Art. No.
Ring Spanners in Foam	8	7341

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



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

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

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



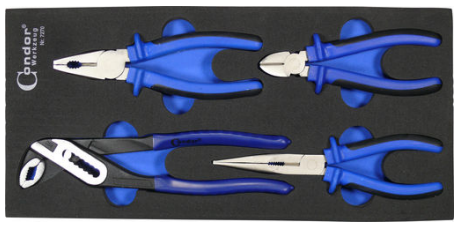
Content	Ø	Length	Art. No.
Parallel Pin Punch	3 mm	150 mm	*7290-6593*
Parallel Pin Punch	4 mm	150 mm	*7290-6594*
Parallel Pin Punch	5 mm	150 mm	*7290-6595*
Parallel Pin Punch	6 mm	150 mm	*7290-6596*
Parallel Pin Punch	7 mm	150 mm	*7290-6597*
Parallel Pin Punch	8 mm	150 mm	*7290-6598*
Center Punch	4 mm	120 mm	*7290-K*
Chisel		200 mm	*7290-M*
Machinist Hammer			55EX/500
Retractable Knife			211EX

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

Pliers Set in Foam 1/3, 4 pcs.

Content	Length	Art. No.
Water Pump Pliers	240 mm	272CV240
Long Nose Pliers	200 mm	1176
Combination Pliers	180 mm	1185
Side Cutter	160 mm	1170

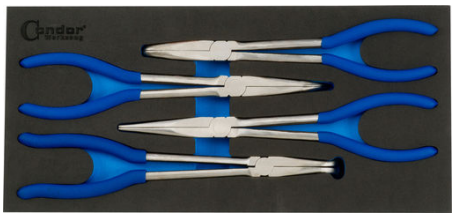
Item	pcs	Art. No.
Pliers in Foam	4	7270



Pliers No. 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

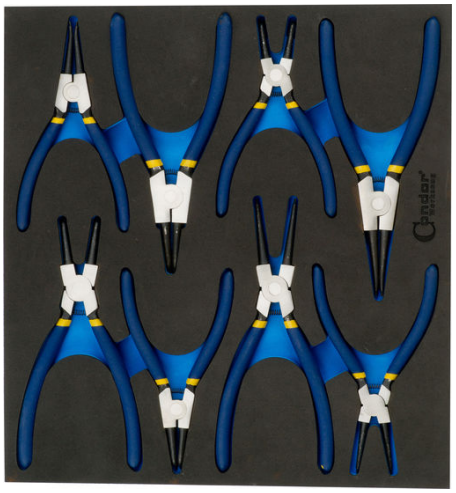
Item	pcs	Art. No.
Pliers in Foam	4	7274



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 mm	289
Ratchet Crimping Pliers	with ratchet function and crush guard	*3049-Z*
Crimping Plier Jaws	for insulated terminals ø 0.5 - 6.0 mm	*3049-A*
Crimping Plier Jaws	for non-insulated terminals ø 0.5 - 10.0 mm	*3049-B*
Crimping Plier Jaws	for non-insulated terminals with open crimp grip ø 0.5 - 6.0 mm (width 4.8 + 6.3 mm)	*3049-C*
Crimping Plier Jaws	for BNC / TNC coaxial plugs RG 58, RG 59, RG 62E, RG 71	*3049-D*
Crimping Plier 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		BMW	5023-17	MB	5023-21
Terminal Release, fork type		MB	5023-18	Terminal Release, round type	
diverse	5023-01	diverse	5023-20	BMW, MB, Opel, Porsche, VW	5023-10
MB	5023-02	Opel, Renault, VW	5023-22	BMW, Jag., MB, Porsche, VW	5023-11
BMW, Ford, MB, Opel, Porsche, VW	5023-03	Terminal Release, needle type		BMW, MB, Opel, VW	5023-12
Ford	5023-04	diverse	5023-07	Terminal Release, hook type	
Opel, VW	5023-05	Ford, MB	5023-08	Ford, Porsche, Jag.	5023-13
diverse	5023-06	Ford, MB	5023-09	Honda, Opel, Toyota, VW	5023-23
Ford	5023-14	Ford, Jag., MB, Opel, Porsche, VW	5023-16		
BMW, Ford, MB, Opel, VW	5023-15	diverse	5023-19		

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

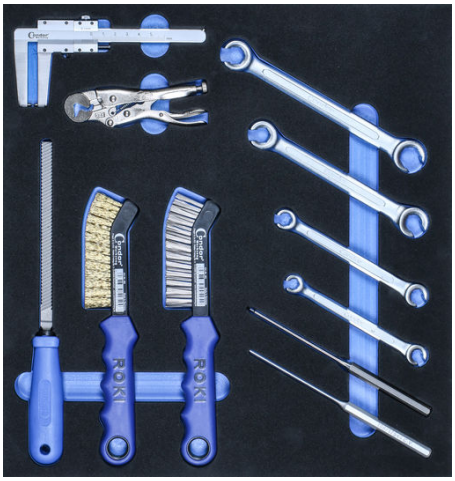
Brake Service and Caliper Wind-Back Tool Set in Foam 2/3, 17 pcs.



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 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 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



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*

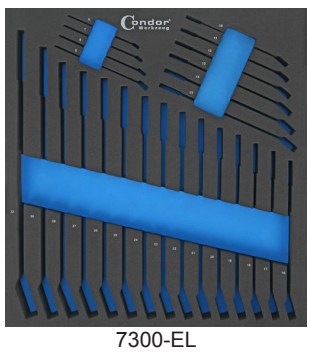
Soft Foam Tray 1/3, empty, for storage

Item	Art. No.
Soft Foam Tray, empty	7199



Soft Foam Trays, empty

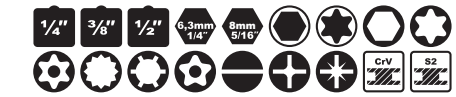
1/3 (36x185x395 mm)		for 7315	*7315-EL*	for 7330 and 7331	*7330-EL*
for 7112	*7112-EL*	for 7320 and 7321	*7320-EL*	for 7450	*7450-EL*
for 7114	*7114-EL*	for 7340 and 7431	*7340-EL*	for 7451	*7451-EL*
for 7135	*7135-EL*	for 7350	*7350-EL*	for 7453	*7453-EL*
for 7138	*7138-EL*	for 7452	*7452-EL*	3/3 (36x560x395 mm)	
for 7148	*7148-EL*	2/3 (36x375x395 mm)		for 7100	*7100-EL*
for 7150	*7150-EL*	for 7181	*7181-EL*	for 7133 and 7134	*7134-EL*
for 7227	*7227-EL*	for 7197 and 7198	*7198-EL*	for 7200	*7200-EL*
for 7270	*7270-EL*	for 7223	*7223-EL*	for 7250	*7250-EL*
for 7274	*7274-EL*	for 7278	*7278-EL*		
for 7290	*7290-EL*	for 7300 and 7310	*7300-EL*		



7300-EL

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 Holder, 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 Holder, 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 Holder, 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

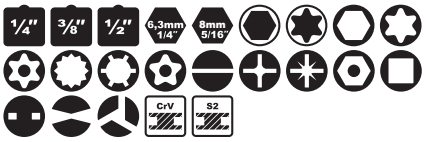
Content							
hexagon		16 mm	*27000/16*	T9	*16033/9*	8 mm bit, 30 mm	
1/4", standard		17 mm	*27000/17*	T10	*16033/10*	8 mm	*17077/8*
4 mm	*23000/4*	18 mm	*27000/18*	T15	*16033/15*	10 mm	*17077/10*
4.5 mm	*23000/4.5*	19 mm	*27000/19*	T20	*16033/20*	12 mm	*17077/12*
5 mm	*23000/5*	20 mm	*27000/20*	T25	*16033/25*	Cross Slot PH	
5.5 mm	*23000/5.5*	21 mm	*27000/21*	T27	*16033/27*	1/4", 37 mm long	
6 mm	*23000/6*	22 mm	*27000/22*	T30	*16033/30*	PH0	*24088/0*
7 mm	*23000/7*	24 mm	*27000/24*	8 mm bit, 30 mm		PH1	*24088/1*
8 mm	*23000/8*	27 mm	*27000/27*	T40	17033/40	PH2	*24088/2*
9 mm	*23000/9*	30 mm	*27000/30*	T45	17033/45	8 mm bit, 30 mm	
10 mm	*23000/10*	32 mm	*27000/32*	T50	17033/50	PH3	*17088/3*
11 mm	*23000/11*	1/2", deep		T55	17033/55	PH4	*17088/4*
12 mm	*23000/12*	16 mm	*27077/16*	T60	17033/60	Cross Slot PZ	
13 mm	*23000/13*	17 mm	*27077/17*	T70	17033/70	1/4", 37 mm long	
14 mm	*23000/14*	18 mm	*27077/18*	TX-Star tamperproof		PZ0	*24099/0*
1/4", deep		19 mm	*27077/19*	1/4", 37 mm long		PZ1	*24099/1*
4 mm	*23077/4*	22 mm	*27077/22*	T8	*24044/8*	PZ2	*24099/2*
5 mm	*23077/5*	TX-Star		T9	*24044/9*	8 mm bit, 30 mm	
6 mm	*23077/6*	1/4", standard		T10	*24044/10*	PZ3	*17099/3*
7 mm	*23077/7*	E4	*23011/4*	T15	*24044/15*	PZ4	*17099/4*
8 mm	*23077/8*	E5	*23011/5*	T20	*24044/20*	Spline (for Ribe)	
9 mm	*23077/9*	E6	*23011/6*	T25	*24044/25*	1/4" bit, 25 mm	
10 mm	*23077/10*	E7	*23011/7*	T27	*24044/27*	M5	*16055/5*
3/8", standard		E8	*23011/8*	T30	*24044/30*	M6	*16055/6*
10 mm	*25000/10*	3/8", standard		8 mm bit, 30 mm		M7	*16055/7*
11 mm	*25000/11*	E10	*25011/10*	T40	17044/40	M8	*16055/8*
12 mm	*25000/12*	E11	*25011/11*	T45	17044/45	M9	*16055/9*
13 mm	*25000/13*	E12	*25011/12*	T50	17044/50	Spline	
14 mm	*25000/14*	E14	*25011/14*	T55	17044/55	1/4" bit, 25 mm	
15 mm	*25000/15*	E16	*25011/16*	T60	17044/60	M5	*16011/5*
16 mm	*25000/16*	E18	*25011/18*	T70	17044/70	M6	*16011/6*
17 mm	*25000/17*	1/2", standard		Hexagon		M8	*16011/8*
18 mm	*25000/18*	E20	*27011/20*	1/4", 37 mm long		5-Star tamperproof	
19 mm	*25000/19*	E24	*27011/24*	3 mm	*24022/3*	1/4" bit, 25 mm	
3/8", deep		TX-Star		4 mm	*24022/4*	TS7	*16066/7*
10 mm	*25077/10*	1/4", 37 mm long		5 mm	*24022/5*	TS10	*16066/10*
11 mm	*25077/11*	T8	*24033/8*	6 mm	*24022/6*	TS15	*16066/15*
12 mm	*25077/12*	T9	*24033/9*	8 mm bit, 30 mm		TS20	*16066/20*
13 mm	*25077/13*	T10	*24033/10*	7 mm	17022/7	TS25	*16066/25*
14 mm	*25077/14*	T15	*24033/15*	8 mm	17022/8	TS27	*16066/27*
15 mm	*25077/15*	T20	*24033/20*	10 mm	17022/10	TS30	*16066/30*
1/2", standard		T25	*24033/25*	12 mm	17022/12	TS40	*16066/40*
10 mm	*27000/10*	T27	*24033/27*	14 mm	17022/14	TS45	*16066/45*
11 mm	*27000/11*	T30	*24033/30*	Plain Slot		Spark Plug Sockets	
12 mm	*27000/12*	1/4" bit, 25 mm		1/4", 37 mm long		3/8", standard	
13 mm	*27000/13*	T5	*16033/5*	4 mm	*24077/4*	18 mm	*25209/18*
14 mm	*27000/14*	T6	*16033/6*	5.5 mm	*24077/5.5*	1/2", standard	
15 mm	*27000/15*	T7	*16033/7*	6.5 mm	*24077/6.5*	16 mm	*27209/16*
		T8	*16033/8*	7 mm	*24077/7*	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		6 mm	14022/6	1/4" bit, 25 mm	
hexagon		1/4", standard		1/2", 55 mm long		TS10	*16066/10*
1/4", standard		E4	22400/E4	14 mm	12022/14	TS15	*16066/15*
4 mm	21288/4	E5	22400/E5	8 mm bit, 30 mm		TS20	*16066/20*
4.5 mm	21288/4.5	E6	22400/E6	7 mm	17022/7	TS25	*16066/25*
5 mm	21288/5	E7	22400/E7	8 mm	17022/8	TS27	*16066/27*
5.5 mm	21288/5.5	E8	22400/E8	10 mm	17022/10	TS30	*16066/30*
6 mm	21288/6	3/8", standard		12 mm	17022/12	TS40	*16066/40*
7 mm	21288/7	E10	22420/E10	Plain Slot		TS45	*16066/45*
8 mm	21288/8	E11	22420/E11	1/4", 37 mm long		8 mm bit, 30 mm	
9 mm	21288/9	E12	22420/E12	4 mm	*14077/4*	TS50	17066/50
10 mm	21288/10	E14	22420/E14	5.5 mm	*14077/5.5*	Square	
11 mm	21288/11	E16	22420/E16	6.5 mm	*14077/6.5*	1/4" bit, 25 mm	
12 mm	21288/12	E18	22420/E18	7 mm	*14077/7*	No.0	*16991/0*
13 mm	21288/13	1/2", standard		8 mm bit, 30 mm		No.1	*16991/1*
14 mm	21288/14	E20	22440/E20	8 mm	*17077/8*	No.2	*16991/2*
1/4", deep		E22	22440/E22	10 mm	*17077/10*	No.3	*16991/3*
4 mm	21299/4	E24	22440/E24	12 mm	*17077/12*	Winged	
5 mm	21299/5	TX-Star		Cross Slot PH		1/4" bit, 25 mm	
6 mm	21299/6	1/4", 37 mm long		1/4", 37 mm long		No.6	*16995/6*
7 mm	21299/7	T8	14033/8	PH0	*14088/0*	No.8	*16995/8*
8 mm	21299/8	T9	14033/9	PH1	*14088/1*	No.10	*16995/10*
9 mm	21299/9	T10	14033/10	PH2	*14088/2*	Spanner	
10 mm	21299/10	T15	14033/15	8 mm bit, 30 mm		1/4" bit, 25 mm	
3/8", standard		T20	14033/20	PH2	*17088/2*	4 mm	*16992/4*
10 mm	21688/10	T25	14033/25	PH3	*17088/3*	6 mm	*16992/6*
11 mm	21688/11	T27	14033/27	PH4	*17088/4*	8 mm	*16992/8*
12 mm	21688/12	T30	14033/30	Cross Slot PZ		10 mm	*16992/10*
13 mm	21688/13	1/2", 55 mm long		1/4", 37 mm long		Clutch	
14 mm	21688/14	T70	12033/70	PZ0	*14099/0*	1/4" bit, 25 mm	
15 mm	21688/15	1/4" bit, 25 mm		PZ1	*14099/1*	No.1	*16993/1*
16 mm	21688/16	T5	*16033/5*	PZ2	*14099/2*	No.2	*16993/2*
17 mm	21688/17	T6	*16033/6*	8 mm bit, 30 mm		No.3	*16993/3*
18 mm	21688/18	T7	*16033/7*	PZ2	*17099/2*	Tri-Winged	
19 mm	21688/19	8 mm bit, 30 mm		PZ3	*17099/3*	1/4" bit, 25 mm	
3/8", deep		T40	17033/40	PZ4	*17099/4*	No.1	*16994/1*
10 mm	21699/10	T45	17033/45	Spark Plug Sockets		No.2	*16994/2*
11 mm	21699/11	T50	17033/50	3/8", standard		No.3	*16994/3*
12 mm	21699/12	T55	17033/55	18 mm	209D	No.4	*16994/4*
13 mm	21699/13	T60	17033/60	1/2", standard		Hexagon tamperproof	
14 mm	21699/14	TX-Star tamperproof		16 mm	209A	1/4" bit, 25 mm	
15 mm	21699/15	1/4", 37 mm long		21 mm	209	2 mm	*16881/2*
1/2", standard		T8	14044/8	Spline		2,5 mm	*16881/2.5*
13 mm	22088/13	T9	14044/9	1/4" bit, 25 mm		3 mm	*16881/3*
14 mm	22088/14	T10	14044/10	M5	*16011/5*	4 mm	*16881/4*
15 mm	22088/15	T15	14044/15	M6	*16011/6*	5 mm	*16881/5*
16 mm	22088/16	T20	14044/20	M8	*16011/8*	6 mm	*16881/6*
17 mm	22088/17	T25	14044/25	8 mm bit, 30 mm		Spanners	
18 mm	22088/18	T27	14044/27	M10	17011/10	Combination Spanner	
19 mm	22088/19	T30	14044/30	M12	17011/12	8 mm	*3612/8*
20 mm	22088/20	1/4" bit, 25 mm		Spline (for Ribe)		9 mm	*3612/9*
21 mm	22088/21	T7	*16044/7*	1/4" bit, 25 mm		10 mm	*3612/10*
22 mm	22088/22	8 mm bit, 30 mm		M5	*16055/5*	11 mm	*3612/11*
24 mm	22088/24	T40	17044/40	M6	*16055/6*	12 mm	*3612/12*
27 mm	22088/27	T45	17044/45	M7	*16055/7*	13 mm	*3612/13*
30 mm	22088/30	T50	17044/50	M8	*16055/8*	14 mm	*3612/14*
32 mm	22088/32	T55	17044/55	M9	*16055/9*	15 mm	*3612/15*
1/2", deep		T60	17044/60	8 mm bit, 30 mm		16 mm	*3612/16*
16 mm	22099/16	Hexagon		M10	17055/10	17 mm	*3612/17*
17 mm	22099/17	1/4", 37 mm long		M11	17055/11	18 mm	*3612/18*
18 mm	22099/18	3 mm	14022/3	M12	17055/12	19 mm	*3612/19*
19 mm	22099/19	4 mm	14022/4	M13	17055/13		
22 mm	22099/22	5 mm	14022/5	5-Star tamperproof			

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

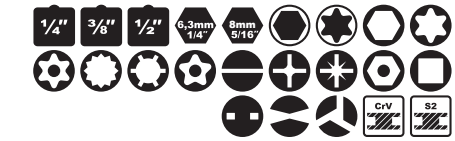




2215: with combination spanners

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Screwdriver, for 1/4" bits, 200 mm	21118
Spinner Handle, 1/4", 150 mm	21117
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", 205 mm	1205/2
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", 255 mm	1205/3
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 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", 145 mm	1205/1
Screwdriver, for 1/4" bits, 200 mm	21118
Spinner Handle, 1/4", 150 mm	21117
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", 205 mm	1205/2
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", 255 mm	1205/3
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 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

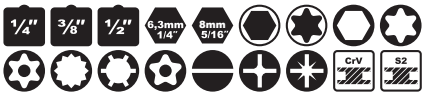
Content							
hexagon		TX-Star		6 mm	14022/6	1/4" bit, 25 mm	
1/4", standard		1/4", standard		1/2", 55 mm long		TS10	*16066/10*
4 mm	21288/4	E4	22400/E4	14 mm	12022/14	TS15	*16066/15*
4.5 mm	21288/4.5	E5	22400/E5	8 mm bit, 30 mm		TS20	*16066/20*
5 mm	21288/5	E6	22400/E6	7 mm	17022/7	TS25	*16066/25*
5.5 mm	21288/5.5	E7	22400/E7	8 mm	17022/8	TS27	*16066/27*
6 mm	21288/6	E8	22400/E8	10 mm	17022/10	TS30	*16066/30*
7 mm	21288/7	3/8", standard		12 mm	17022/12	TS40	*16066/40*
8 mm	21288/8	E10	22420/E10	Plain Slot		TS45	*16066/45*
9 mm	21288/9	E11	22420/E11	1/4", 37 mm long		8 mm bit, 30 mm	
10 mm	21288/10	E12	22420/E12	4 mm	*14077/4*	TS50	17066/50
11 mm	21288/11	E14	22420/E14	5.5 mm	*14077/5.5*	Square	
12 mm	21288/12	E16	22420/E16	6.5 mm	*14077/6.5*	1/4" bit, 25 mm	
13 mm	21288/13	E18	22420/E18	7 mm	*14077/7*	No.0	*16991/0*
14 mm	21288/14	1/2", standard		8 mm bit, 30 mm		No.1	*16991/1*
1/4", deep		E20	22440/E20	8 mm	*17077/8*	No.2	*16991/2*
4 mm	21299/4	E22	22440/E22	10 mm	*17077/10*	No.3	*16991/3*
5 mm	21299/5	E24	22440/E24	12 mm	*17077/12*	Winged	
6 mm	21299/6	TX-Star		Cross Slot PH		1/4" bit, 25 mm	
7 mm	21299/7	1/4", 37 mm long		1/4", 37 mm long		No.6	*16995/6*
8 mm	21299/8	T8	14033/8	PH0	*14088/0*	No.8	*16995/8*
9 mm	21299/9	T9	14033/9	PH1	*14088/1*	No.10	*16995/10*
10 mm	21299/10	T10	14033/10	PH2	*14088/2*	Spanner	
3/8", standard		T15	14033/15	8 mm bit, 30 mm		1/4" bit, 25 mm	
10 mm	21688/10	T20	14033/20	PH2	*17088/2*	4 mm	*16992/4*
11 mm	21688/11	T25	14033/25	PH3	*17088/3*	6 mm	*16992/6*
12 mm	21688/12	T27	14033/27	PH4	*17088/4*	8 mm	*16992/8*
13 mm	21688/13	T30	14033/30	Cross Slot PZ		10 mm	*16992/10*
14 mm	21688/14	1/2", 55 mm long		1/4", 37 mm long		Clutch	
15 mm	21688/15	T70	12033/70	PZ0	*14099/0*	1/4" bit, 25 mm	
16 mm	21688/16	1/4" bit, 25 mm		PZ1	*14099/1*	No.1	*16993/1*
17 mm	21688/17	T5	*16033/5*	PZ2	*14099/2*	No.2	*16993/2*
18 mm	21688/18	T6	*16033/6*	8 mm bit, 30 mm		No.3	*16993/3*
19 mm	21688/19	T7	*16033/7*	PZ2	*17099/2*	Tri-Winged	
3/8", deep		8 mm bit, 30 mm		PZ3	*17099/3*	1/4" bit, 25 mm	
10 mm	21699/10	T40	17033/40	PZ4	*17099/4*	No.1	*16994/1*
11 mm	21699/11	T45	17033/45	Spark Plug Sockets		No.2	*16994/2*
12 mm	21699/12	T50	17033/50	3/8", standard		No.3	*16994/3*
13 mm	21699/13	T55	17033/55	18 mm	209D	No.4	*16994/4*
14 mm	21699/14	T60	17033/60	1/2", standard		Hexagon tamperproof	
15 mm	21699/15	TX-Star tamperproof		16 mm	209A	1/4" bit, 25 mm	
1/2", standard		1/4", 37 mm long		21 mm	209	2 mm	*16881/2*
13 mm	22088/13	T8	14044/8	Spline		2,5 mm	*16881/2.5*
14 mm	22088/14	T9	14044/9	1/4" bit, 25 mm		3 mm	*16881/3*
15 mm	22088/15	T10	14044/10	M5	*16011/5*	4 mm	*16881/4*
16 mm	22088/16	T15	14044/15	M6	*16011/6*	5 mm	*16881/5*
17 mm	22088/17	T20	14044/20	M8	*16011/8*	6 mm	*16881/6*
18 mm	22088/18	T25	14044/25	8 mm bit, 30 mm		Spanners	
19 mm	22088/19	T27	14044/27	M10	17011/10	Ratchet Wrench	
20 mm	22088/20	T30	14044/30	M12	17011/12	8 mm	4100/8
21 mm	22088/21	1/4" bit, 25 mm		Spline (for Ribe)		9 mm	4100/9
22 mm	22088/22	T7	*16044/7*	1/4" bit, 25 mm		10 mm	4100/10
24 mm	22088/24	8 mm bit, 30 mm		M5	*16055/5*	11 mm	4100/11
27 mm	22088/27	T40	17044/40	M6	*16055/6*	12 mm	4100/12
30 mm	22088/30	T45	17044/45	M7	*16055/7*	13 mm	4100/13
32 mm	22088/32	T50	17044/50	M8	*16055/8*	14 mm	4100/14
1/2", deep		T55	17044/55	M9	*16055/9*	15 mm	4100/15
16 mm	22099/16	T60	17044/60	8 mm bit, 30 mm		16 mm	4100/16
17 mm	22099/17	Hexagon		M10	17055/10	17 mm	4100/17
18 mm	22099/18	1/4", 37 mm long		M11	17055/11	18 mm	4100/18
19 mm	22099/19	3 mm	14022/3	M12	17055/12	19 mm	4100/19
22 mm	22099/22	4 mm	14022/4	M13	17055/13		
		5 mm	14022/5	5-Star tamperproof			

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

Socket Set, 192 pcs., 1/4+3/8+1/2", hex 4-32 mm

Content		20 mm	22088/20	T45	17033/45	8 mm	*17077/8*
hexagon		21 mm	22088/21	T50	17033/50	10 mm	*17077/10*
1/4", standard		22 mm	22088/22	T55	17033/55	12 mm	*17077/12*
4 mm	21288/4	24 mm	22088/24	T60	17033/60	Cross Slot PH	
4.5 mm	21288/4.5	27 mm	22088/27	T70	17033/70	1/4", 37 mm long	
5 mm	21288/5	30 mm	22088/30	TX-Star tamperproof		PH0	*14088/0*
5.5 mm	21288/5.5	32 mm	22088/32	1/4", 37 mm long		PH1	*14088/1*
6 mm	21288/6	1/2", deep		T8	14044/8	PH2	*14088/2*
7 mm	21288/7	16 mm	22099/16	T9	14044/9	1/4" bit, 25 mm	
8 mm	21288/8	17 mm	22099/17	T10	14044/10	PH1	*16088/1*
9 mm	21288/9	18 mm	22099/18	T15	14044/15	PH2	*16088/2*
10 mm	21288/10	19 mm	22099/19	T20	14044/20	8 mm bit, 30 mm	
11 mm	21288/11	22 mm	22099/22	T25	14044/25	PH3	*17088/3*
12 mm	21288/12	TX-Star		T27	14044/27	PH4	*17088/4*
13 mm	21288/13	1/4", standard		T30	14044/30	Cross Slot PZ	
14 mm	21288/14	E4	22400/E4	1/4" bit, 25 mm		1/4", 37 mm long	
1/4", deep		E5	22400/E5	T7	*16044/7*	PZ0	*14099/0*
4 mm	21299/4	E6	22400/E6	T10	*16044/10*	PZ1	*14099/1*
5 mm	21299/5	E7	22400/E7	T15	*16044/15*	PZ2	*14099/2*
6 mm	21299/6	E8	22400/E8	T20	*16044/20*	1/4" bit, 25 mm	
7 mm	21299/7	3/8", standard		T25	*16044/25*	PZ1	*16099/1*
8 mm	21299/8	E10	22420/E10	T27	*16044/27*	PZ2	*16099/2*
9 mm	21299/9	E11	22420/E11	T30	*16044/30*	8 mm bit, 30 mm	
10 mm	21299/10	E12	22420/E12	T40	*16044/40*	PZ3	*17099/3*
3/8", standard		E14	22420/E14	8 mm bit, 30 mm		PZ4	*17099/4*
10 mm	21688/10	E16	22420/E16	T40	17044/40	Spline	
11 mm	21688/11	E18	22420/E18	T45	17044/45	1/4" bit, 25 mm	
12 mm	21688/12	1/2", standard		T50	17044/50	M5	*16011/5*
13 mm	21688/13	E20	22440/E20	T55	17044/55	M6	*16011/6*
14 mm	21688/14	E24	22440/E24	T60	17044/60	M8	*16011/8*
15 mm	21688/15	TX-Star		T70	17044/70	Spline (for Ribe)	
16 mm	21688/16	1/4", 37 mm long		Hexagon		1/4" bit, 25 mm	
17 mm	21688/17	T8	14033/8	1/4", 37 mm long		M5	*16055/5*
18 mm	21688/18	T9	14033/9	3 mm	14022/3	M6	*16055/6*
19 mm	21688/19	T10	14033/10	4 mm	14022/4	M7	*16055/7*
3/8", deep		T15	14033/15	5 mm	14022/5	M8	*16055/8*
10 mm	21699/10	T20	14033/20	6 mm	14022/6	M9	*16055/9*
11 mm	21699/11	T25	14033/25	1/4" bit, 25 mm		5-Star tamperproof	
12 mm	21699/12	T27	14033/27	2 mm	*16022/2*	1/4" bit, 25 mm	
13 mm	21699/13	T30	14033/30	2,5 mm	*16022/2.5*	TS10	*16066/10*
14 mm	21699/14	1/4" bit, 25 mm		8 mm bit, 30 mm		TS15	*16066/15*
15 mm	21699/15	T5	*16033/5*	7 mm	17022/7	TS20	*16066/20*
1/2", standard		T6	*16033/6*	8 mm	17022/8	TS25	*16066/25*
10 mm	22088/10	T7	*16033/7*	10 mm	17022/10	TS27	*16066/27*
11 mm	22088/11	T10	*16033/10*	12 mm	17022/12	TS30	*16066/30*
12 mm	22088/12	T15	*16033/15*	14 mm	17022/14	TS40	*16066/40*
13 mm	22088/13	T20	*16033/20*	Plain Slot		TS45	*16066/45*
14 mm	22088/14	T25	*16033/25*	1/4", 37 mm long		Spark Plug Sockets	
15 mm	22088/15	T27	*16033/27*	4 mm	*14077/4*	3/8", standard	
16 mm	22088/16	T30	*16033/30*	5.5 mm	*14077/5.5*	18 mm	209D
17 mm	22088/17	T40	*16033/40*	6.5 mm	*14077/6.5*	1/2", standard	
18 mm	22088/18	8 mm bit, 30 mm		7 mm	*14077/7*	16 mm	209A
19 mm	22088/19	T40	17033/40	8 mm bit, 30 mm		21 mm	209

Item	Size	Drive	pcs	Art. No.
Socket Set	4-32 mm	1/4+3/8+1/2"	192	1150





Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Sliding T-Bar, 1/4", 115 mm	21120
Spinner Handle, 1/4", 150 mm	21117
Universal Joint, 1/4"	21125
Bit Holder, 1/4", for 1/4" bits	20624
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105
Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1205/2
Universal Joint, 3/8"	21525
Bit Holder, 3/8", for 8 mm bits	20623
Extension Bar, 3/8", 125 mm	21503
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 255 mm	1205/3
Universal Joint, 1/2"	21925
Bit Holder, 1/2", for 8 mm bits	20621
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	*21901*
Miscellaneous Tools	
Hex Key Set, 7 pcs., 1-5 mm	*2215WKS*

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Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
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", 255 mm	1205/3
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 8 mm bits	20621
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

Socket Set, 98 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				
22 mm	22099/22				
TX-Star					
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				
8 mm bit, 30 mm					
T40	17033/40				
T45	17033/45				
T50	17033/50				
T55	17033/55				
T60	17033/60				
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				
Plain Slot					
1/4", 37 mm long					
4 mm	*14077/4*				
5.5 mm	*14077/5.5*				
6.5 mm	*14077/6.5*				
8 mm bit, 30 mm					
7 mm	*17077/7*				
8 mm	*17077/8*				
10 mm	*17077/10*				
12 mm	*17077/12*				
Cross Slot PH					
1/4", 37 mm long					
PH0	*14088/0*				
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					
PZ0	*14099/0*				
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	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", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
Extension Bar, 1/4", 50 mm	21100
Extension Bar, 1/4", 100 mm	21105

Socket Set, 98 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				
22 mm	22099/22				
TX-Star					
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				
8 mm bit, 30 mm					
T40	17033/40				
T45	17033/45				
T50	17033/50				
T55	17033/55				
T60	17033/60				

Hexagon					
1/4", 37 mm long		4 mm	*14077/4*	PH3	*17088/3*
3 mm	14022/3	5.5 mm	*14077/5.5*	PH4	*17088/4*
4 mm	14022/4	6.5 mm	*14077/6.5*	Cross Slot PZ	
5 mm	14022/5	8 mm bit, 30 mm		1/4", 37 mm long	
6 mm	14022/6	7 mm	*17077/7*	PZ0	*14099/0*
8 mm bit, 30 mm		8 mm	*17077/8*	PZ1	*14099/1*
7 mm	17022/7	10 mm	*17077/10*	PZ2	*14099/2*
8 mm	17022/8	12 mm	*17077/12*	8 mm bit, 30 mm	
10 mm	17022/10	Cross Slot PH		PZ3	*17099/3*
12 mm	17022/12	1/4", 37 mm long		PZ4	*17099/4*
14 mm	17022/14	PH0	*14088/0*	Spark Plug Sockets	
Plain Slot		PH1	*14088/1*	1/2", standard	
1/4", 37 mm long		PH2	*14088/2*	16 mm	209A
		8 mm bit, 30 mm		21 mm	209

Item	Size	Drive	pcs	Art. No.
Socket Set	4-32 mm	1/4+1/2"	98	1198

Sliding T-Bar, 1/4", 115 mm	21120
Universal Joint, 1/4"	21125
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
T-Head, 1/2"	*21901*
Universal Joint, 1/2"	21925
Bit Holder, 1/2", for 8 mm bits	20621
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

Socket Set, 47 pcs., 1/4", hex 4-14 mm



Content		10 mm	21299/10	8 mm	14022/8
hexagon		11 mm	21299/11	Plain Slot	
1/4", standard		13 mm	21299/13	1/4", 37 mm long	
4 mm	21288/4	TX-Star		4 mm	*14077/4*
4.5 mm	21288/4.5	1/4", 37 mm long		5.5 mm	*14077/5.5*
5 mm	21288/5	T10	14033/10	6.5 mm	*14077/6.5*
5.5 mm	21288/5.5	T15	14033/15	Cross Slot PH	
6 mm	21288/6	T20	14033/20	1/4", 37 mm long	
7 mm	21288/7	T25	14033/25	PH1	*14088/1*
8 mm	21288/8	T30	14033/30	PH2	*14088/2*
9 mm	21288/9	T40	14033/40	PH3	*14088/3*
10 mm	21288/10	Hexagon		Cross Slot PZ	
11 mm	21288/11	1/4", 37 mm long		1/4", 37 mm long	
12 mm	21288/12	3 mm	14022/3	PZ1	*14099/1*
13 mm	21288/13	4 mm	14022/4	PZ2	*14099/2*
14 mm	21288/14	5 mm	14022/5	PZ3	*14099/3*
1/4", deep		6 mm	14022/6		
8 mm	21299/8	7 mm	14022/7		

Item	Size	Drive	pcs	Art. No.
Socket Set	4-14 mm	1/4"	47	1147

Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
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
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

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



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

Drive Tools / Accessory, 3/8"	
Reversible Ratchet, 3/8", 205 mm	1205/2

2

3/8" sq. drive	
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*

T50	17044/50	T55	17044/55

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

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



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

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

Socket Set, 25 pcs., 1/2", hex 8-32 mm



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	Size	Drive	pcs	Art. No.
Socket Set	8-32 mm	1/2"	25	1125

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

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	28 mm	22600/28	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	34 mm	22600/34		

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



Drive Tools / Accessory, 3/4"	
Reversible Ratchet, 3/4", 500 mm	*1015KN*
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		41 mm	22800/41	65 mm	22800/65
hexagon		46 mm	22800/46	70 mm	22800/70
1", standard		50 mm	22800/50	75 mm	22800/75
36 mm	22800/36	55 mm	22800/55	80 mm	22800/80
38 mm	22800/38	60 mm	22800/60		

Item	Size	Drive	pcs	Art. No.
Socket Set	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

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Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
Extension Bar, 1/4", 75 mm	21103
Universal Joint, 1/4"	21125
Bit Holder, 1/4", for 1/4" bits	20624
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 255 mm	1205/3
Extension Bar, 1/2", 125 mm	21900
Universal Joint, 1/2"	21925
Miscellaneous Tools	
German Pattern Machinist Hammer, 300 g	55EX/300
Combination Pliers, 180 mm	1185
Water Pump Pliers, box-joint, 240 mm	272CV240
Crimping Pliers, insulated and non-insulated terminals	3030
Terminal Assortment, 24 pcs.	*2105/KS*

Tool Set, 105 pcs., 1/4+1/2", hex 4-32 mm

Content		21 mm	209	3 mm	*16077/3*
hexagon		TX-Star		4 mm	*16077/4*
1/4", standard		1/4" bit, 25 mm		5.5 mm	*16077/5.5*
4 mm	21288/4	T7	*16033/7*	7 mm	*16077/7*
5 mm	21288/5	T8	*16033/8*	Screwdriver	
5.5 mm	21288/5.5	T9	*16033/9*	4x80 mm	*2105/417*
6 mm	21288/6	T10	*16033/10*	6.5x150 mm	*2105/617*
7 mm	21288/7	T15	*16033/15*	8x200 mm	*2105/817*
8 mm	21288/8	T20	*16033/20*	Cross Slot PH	
9 mm	21288/9	T25	*16033/25*	1/4" bit, 25 mm	
10 mm	21288/10	T27	*16033/27*	PH0	*16088/0*
11 mm	21288/11	T30	*16033/30*	PH1	*16088/1*
12 mm	21288/12	T40	*16033/40*	PH2	*16088/2*
13 mm	21288/13	TX-Star tamperproof		PH3	*16088/3*
1/4", deep		1/4" bit, 25 mm		Screwdriver	
6 mm	21299/6	T7	*16044/7*	PH1x80 mm	*2105/118*
7 mm	21299/7	T8	*16044/8*	PH2x100 mm	*2105/218*
8 mm	21299/8	T9	*16044/9*	Cross Slot PZ	
9 mm	21299/9	T10	*16044/10*	1/4" bit, 25 mm	
10 mm	21299/10	T15	*16044/15*	PZ0	*16099/0*
1/2", standard		T20	*16044/20*	PZ1	*16099/1*
10 mm	22088/10	T25	*16044/25*	PZ2	*16099/2*
11 mm	22088/11	T27	*16044/27*	PZ3	*16099/3*
12 mm	22088/12	T30	*16044/30*	Spanners	
13 mm	22088/13	T40	*16044/40*	Combination Spanner	
14 mm	22088/14	Hexagon		8 mm	*3612/8*
15 mm	22088/15	1/4" bit, 25 mm		9 mm	*3612/9*
17 mm	22088/17	1,5 mm	*16022/1.5*	10 mm	*3612/10*
19 mm	22088/19	2 mm	*16022/2*	11 mm	*3612/11*
21 mm	22088/21	2,5 mm	*16022/2.5*	12 mm	*3612/12*
22 mm	22088/22	3 mm	*16022/3*	13 mm	*3612/13*
24 mm	22088/24	4 mm	*16022/4*	14 mm	*3612/14*
27 mm	22088/27	5 mm	*16022/5*	15 mm	*3612/15*
30 mm	22088/30	6 mm	*16022/6*	16 mm	*3612/16*
32 mm	22088/32	7 mm	*16022/7*	17 mm	*3612/17*
Spark Plug Sockets		8 mm	*16022/8*	18 mm	*3612/18*
1/2", standard		Plain Slot		19 mm	*3612/19*
16 mm	209A	1/4" bit, 25 mm			

Item	Size	Drive	pcs	Art. No.
Tool Set	4-32 mm	1/4+1/2"	105	2105



Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
Extension Bar, 1/4", 100 mm	21105

Tool Box, 1/4-1/2" sq. drive, 101 pcs.

- 3 drawers and 1 lid compartment
- ball-bearing telescopic slides
- central locking through closing of lid
- solid handle for safe transport
- inner dimensions lid compartment: 95 x 530 x 208 mm (h x w x d)
- inner dimensions drawer: 43 x 500 x 194 mm (h x w x d)
- size: 310 x 535 x 230 mm (h x w x d)
- 3 soft foam trays, lowest drawer without tray to allow storage of additional tools

Content		15 mm	22088/15	17 mm	22099/K17
hexagon		16 mm	22088/16	19 mm	22099/K19
1/4", standard		17 mm	22088/17	21 mm	22099/K21
6 mm	21288/6	18 mm	22088/18	24 mm	22099/K24
7 mm	21288/7	19 mm	22088/19	TX-Star	
8 mm	21288/8	20 mm	22088/20	1/4", 37 mm long	
9 mm	21288/9	21 mm	22088/21	T20	14033/20
10 mm	21288/10	22 mm	22088/22	T25	14033/25
11 mm	21288/11	24 mm	22088/24	T27	14033/27
12 mm	21288/12	27 mm	22088/27	T30	14033/30
13 mm	21288/13	30 mm	22088/30	Plain Slot	
1/2", standard		32 mm	22088/32	1/4", 37 mm long	
14 mm	22088/14	1/2", deep		4 mm	*14077/4*

5.5 mm	*14077/5.5*	14 mm	12022/14	16 mm	2136/16
6.5 mm	*14077/6.5*	17 mm	12022/17	17 mm	2136/17
Screwdriver		19 mm	12022/19	18 mm	2136/18
6.5 mm	930/617	Spark Plug Sockets		19 mm	2136/19
8 mm	930/817	1/2", standard		21 mm	2136/21
Cross Slot PH		16 mm	209A	22 mm	2136/22
1/4", 37 mm long		21 mm	209	24 mm	2136/24
PH1	*14088/1*	Spanners		27 mm	2136/27
PH2	*14088/2*	Combination Spanner		30 mm	2136/30
Screwdriver		6 mm	2136/6	32 mm	2136/32
PH1	930/118	7 mm	2136/7	Double Flex. Socket Wrench	
PH2	930/218	8 mm	2136/8	8x9 mm	*132/8x9*
Cross Slot PZ		9 mm	2136/9	10x11 mm	*132/10x11*
1/4", 37 mm long		10 mm	2136/10	12x13 mm	*132/12x13*
PZ1	*14099/1*	11 mm	2136/11	14x15 mm	*132/14x15*
PZ2	*14099/2*	12 mm	2136/12	16x17 mm	*132/16x17*
Hexagon		13 mm	2136/13	18x19 mm	*132/18x19*
1/2", 55 mm long		14 mm	2136/14		
12 mm	12022/12	15 mm	2136/15		

Universal Joint, 1/4"	21125
Drive Tools / Accessory, 1/2"	
Reversible Ratchet, 1/2", 255 mm	1205/3
Telescopic Swivel Bar, 1/2", 450-600 mm	22728
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	*21901*
Universal Joint, 1/2"	21925
Miscellaneous Tools	
Ball End Key Set, 9 pcs., long, hex 1.5-10 mm	1121/1
Parallel Pin Punch Set, 6 pcs., 150 mm, ø 3-8 mm	659
Tire Lever, 400 mm	265/400
German Pattern Machinist Hammer, 500 g	55EX/500
Caliper, 150 mm	1345
Feeler Gauges, 20 blades, 100 mm, 0.05-1.00 mm	172

Item	Size	Drive	pcs	Art. No.
Tool Box	6-32 mm	1/4+1/2"	101	7725

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



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



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



2

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

Narrow-Space

S-Type Ratchet Spanner Bit Assortment, 33 pcs.



- specially designed for jobs with limited space available
- s-type ratchet spanner, 72 teeth, reversible (right / left), with quick release mechanism, for 6.3 mm (1/4") bits and 1/4" sockets

Content		13 mm	21288/13	Cross Slot PZ		8 mm	*16022/8*
hexagon		Plain Slot		1/4" bit, 25 mm		TX-Star	
1/4", standard		1/4" bit, 25 mm		PZ1	*16099/1*	1/4" bit, 25 mm	
5 mm	21288/5	4 mm	*16077/4*	PZ2	*16099/2*	T10	*16033/10*
6 mm	21288/6	5.5 mm	*16077/5.5*	PZ3	*16099/3*	T15	*16033/15*
7 mm	21288/7	6.5 mm	*16077/6.5*	Hexagon		T20	*16033/20*
8 mm	21288/8	Cross Slot PH		1/4" bit, 25 mm		T25	*16033/25*
9 mm	21288/9	1/4" bit, 25 mm		3 mm	*16022/3*	T27	*16033/27*
10 mm	21288/10	PH1	*16088/1*	4 mm	*16022/4*	T30	*16033/30*
11 mm	21288/11	PH2	*16088/2*	5 mm	*16022/5*		
12 mm	21288/12	PH3	*16088/3*	6 mm	*16022/6*		

Item	Size	Drive	pcs	Art. No.
S-Type Ratchet Spanner Bit Assortment	5-13 mm	1/4" square + 1/4" hex	33	2133

Drive Tools / Accessory, 1/4"	
S-Type Ratchet Spanner, for 1/4" sockets and 1/4" bits	*4005/1*
Extension Bar, 1/4", 50 mm	21100
Universal Joint, 1/4"	21125
Bit Holder, 1/4", for 1/4" bits	20624

Specialist Bit Set, 37 pcs.



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

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

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

Miscellaneous Tools	
Double Head Ratchet Spanner, 8x10 mm	*4075/8x10*

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

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



Miscellaneous Tools	
Reversible Ratchet, 12.5 mm intake, 72 teeth	*2144/KN*
Adapter, for 3/8" sockets	*2144/AD*

Varioplus

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

- go-through sockets for working on stud bolts

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

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



Miscellaneous Tools	
Reversible Ratchet, 19 mm intake, 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*

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



Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
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", 255 mm	1205/3
Extension Bar, 1/2", 125 mm	21900
Extension Bar, 1/2", 250 mm	21905
T-Head, 1/2"	*21901*
Bit Holder, 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*

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

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

Socket Set, 47 pcs., 1/4", varioplus 4-14 mm



Drive Tools / Accessory, 1/4"	
Reversible Ratchet, 1/4", 145 mm	1205/1
Spinner Handle, 1/4", 150 mm	21117
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
Miscellaneous Tools	
Hex Key Set, 3 pcs., 1.5, 2, 2.5 mm	*1198WKS*

Content					
Varioplus		10 mm	21266/10	8 mm	14022/8
1/4", standard		11 mm	21266/11	Plain Slot	
4 mm	21255/4	13 mm	21266/13	1/4", 37 mm long	
4.5 mm	21255/4.5	TX-Star		4 mm	*14077/4*
5 mm	21255/5	1/4", 37 mm long		5.5 mm	*14077/5.5*
5.5 mm	21255/5.5	T10	14033/10	6.5 mm	*14077/6.5*
6 mm	21255/6	T15	14033/15	Cross Slot PH	
7 mm	21255/7	T20	14033/20	1/4", 37 mm long	
8 mm	21255/8	T25	14033/25	PH1	*14088/1*
9 mm	21255/9	T30	14033/30	PH2	*14088/2*
10 mm	21255/10	T40	14033/40	PH3	*14088/3*
11 mm	21255/11	Hexagon		Cross Slot PZ	
12 mm	21255/12	1/4", 37 mm long		1/4", 37 mm long	
13 mm	21255/13	3 mm	14022/3	PZ1	*14099/1*
14 mm	21255/14	4 mm	14022/4	PZ2	*14099/2*
1/4", deep		5 mm	14022/5	PZ3	*14099/3*
8 mm	21266/8	6 mm	14022/6		
		7 mm	14022/7		

Item	Size	Drive	pcs	Art. No.
Socket Set	4-14 mm	1/4"	47	2155

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

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

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



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

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

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



Inch

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

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

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", 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" female x 1/4" male	20602
Universal Joint, 3/8"	21525
Miscellaneous Tools	
Hex Key Set, 9 pcs., 1/16-3/8"	*2172WKS*

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"	
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*

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

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

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



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



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



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

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

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



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

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

Bi-Hex

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

TX-Star

Tool Set, 76 pcs., 1/4+1/2", TX-Star

Content		T7	14033/7	T10	*16044/10*
TX-Star		T8	14033/8	T15	*16044/15*
1/4", standard		T9	14033/9	T20	*16044/20*
E4	22400/E4	T10	14033/10	T25	*16044/25*
E5	22400/E5	T15	14033/15	T27	*16044/27*
E6	22400/E6	T20	14033/20	T30	*16044/30*
E7	22400/E7	T25	14033/25	T40	*16044/40*
E8	22400/E8	T27	14033/27	10 mm bit, 30 mm	
E10	22400/E10	T30	14033/30	T40	18044/40
E11	22400/E11	T40	14033/40	T45	18044/45
1/2", standard		10 mm bit, 75 mm		T50	18044/50
E12	22440/E12	T15	18073/15	T55	18044/55
E14	22440/E14	T20	18073/20	T60	18044/60
E16	22440/E16	T25	18073/25	T70	18044/70
E18	22440/E18	T30	18073/30	Screwdriver	
E20	22440/E20	T40	18073/40	T8	*1076/084*
E22	22440/E22	T45	18073/45	T10	*1076/104*
E24	22440/E24	T50	18073/50	T15	*1076/154*
Ring Spanner, flat		T55	18073/55	T20	*1076/204*
E6x8	1001/1	T60	18073/60	T25	*1076/254*
E10x12	1001/2	TX-Star tamperproof		T27	*1076/274*
E14x18	1001/3	1/4" bit, 25 mm		T30	*1076/304*
E20x24	1001/4	T7	*16044/7*	T40	*1076/404*
TX-Star		T8	*16044/8*		
1/4", 37 mm long		T9	*16044/9*		

Item	Size	Drive	pcs	Art. No.
Tool Set	E4-24, T7-70	1/4+1/2"	76	1076



Drive Tools / Accessory, 1/4"	
Bit Holder, 1/4", for 1/4" bits	20624
Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 10 mm bits	20620
Miscellaneous Tools	
Key Set, 12 pcs., tx-star T8-60	*1076WKS*
Telescopic Magnetic Pick-Up Tool, nozzle tip, 120-650 mm	372

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

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

Item	Size	Drive	pcs	Art. No.
Socket Set	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		E14	22440/E14	TX-Star		T40	12033/40
TX-Star		E16	22440/E16	1/2", 55 mm long		T45	12033/45
1/2", standard		E18	22440/E18	T20	12033/20	T50	12033/50
E10	22440/E10	E20	22440/E20	T25	12033/25	T55	12033/55
E11	22440/E11	E22	22440/E22	T27	12033/27	T60	12033/60
E12	22440/E12	E24	22440/E24	T30	12033/30	T70	12033/70

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



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



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

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

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



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

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



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

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

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



Content		T20	*5066/20*	T45	*5066/45*
TX-Star		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	Form	Size	Drive	pcs	Art. No.
Stubby Socket Bit Set	extra short	T8-60	1/4+3/8+1/2"	12	5066

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

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

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



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

Content					
TX-Star	T40	18033/40	T25	18073/25
10 mm bit, 30 mm	T45	18033/45	T30	18073/30
	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	Size	Drive	pcs	Art. No.
Socket Bit Set	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 T10-60

Content					
TX-Star	T40	18033/40	T25	18073/25
10 mm bit, 30 mm	T45	18033/45	T27	18073/27
	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	Size	Drive	pcs	Art. No.
Socket Bit Set	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, 10 pcs., 1/4", TX-Star T7-40

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

Item	Size	Drive	pcs	Art. No.
Socket Bit Set	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	T27	14044/27
1/4", 37 mm long	T10	14044/10	T30	14044/30
	T15	14044/15	T40	14044/40
T7	14044/7	T20	14044/20		
T8	14044/8	T25	14044/25		

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



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



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

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

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, 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	Size	Drive	pcs	Art. No.
Socket Bit Set	T70-100	1/2"	4	5004

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



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

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

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



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

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

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



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

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

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

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

Item	Size	Drive	pcs	Art. No.
Deep Socket Set	E10-20	1/2"	6	2106



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

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

Item	Size	Drive	pcs	Art. No.
Deep Socket Set	E10-24	1/2"	9	2106/9



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

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

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



5-Star

Socket Bit Set, 9 pcs., 1/4", five-star tamperproof TS10-50

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

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



Hexagon

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

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

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



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



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

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

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
5 mm	12022/5	10 mm	12022/10	18 mm	12022/18
6 mm	12022/6	12 mm	12022/12	19 mm	12022/19
		14 mm	12022/14	22 mm	12022/22

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

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

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



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

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

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

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	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	75 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	75 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 Holder, 1/2", for 8 mm bits	*20621KR*

Spline

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

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

Item	Size	Drive	pcs	Art. No.
Socket Bit Set	M5-16	1/2"	26	5080



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

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

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



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

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

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



2

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



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

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

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

Spline (for Ribe)

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



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

Item	Size	Drive	pcs	Art. No.
Socket Bit Set	M5-14	1/2"	32	5083

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



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

Item	Size	Drive	pcs	Art. No.
Socket Bit Set	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

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



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

Item	Size	Drive	pcs	Art. No.
Socket Bit Set	M5-13	1/2"	9	5070

Combined Sets

Socket Bit Set, 49 pcs., 1/2"

Content		T30	12103/30	19 mm	12022/19	M8	12101/8
TX-Star		T40	12103/40	1/2", 100 mm long		M10	12101/10
1/2", 55 mm long		T45	12103/45	6 mm	12102/6	M12	12101/12
T20	12033/20	T50	12103/50	7 mm	12102/7	M14	12101/14
T25	12033/25	T60	12103/60	8 mm	12102/8	TX-Star tamperproof	
T27	12033/27	Hexagon		10 mm	12102/10	8 mm bit, 30 mm	
T30	12033/30	1/2", 55 mm long		12 mm	12102/12	T20	17044/20
T40	12033/40	5 mm	12022/5	Spline		T25	17044/25
T45	12033/45	6 mm	12022/6	1/2", 55 mm long		T27	17044/27
T50	12033/50	7 mm	12022/7	M5	12011/5	T30	17044/30
T55	12033/55	8 mm	12022/8	M6	12011/6	T40	17044/40
T60	12033/60	10 mm	12022/10	M8	12011/8	T45	17044/45
T70	12033/70	12 mm	12022/12	M10	12011/10	T50	17044/50
1/2", 100 mm long		14 mm	12022/14	1/2", 100 mm long		T55	17044/55
T25	12103/25	17 mm	12022/17	M6	12101/6	T60	17044/60

Item	Drive	pcs	Art. No.
Socket Bit Set	1/2"	49	5000



Drive Tools / Accessory, 1/2"	
Bit Holder, 1/2", for 8 mm bits	20621

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

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

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



Socket Set, 10 pcs., 1/2", automotive specialist

- M6S, specialist hexagon, for Nissan / Renault clutch
- M8S, specialist hexagon, for Nissan cylinder head and balancer shaft
- M10S, specialist hexagon, for Toyota
- M12S, specialist hexagon, for Nissan cylinder head bolts
- 8TS, specialist triangular, for Nissan balancer shaft
- 10 mm, pentagon, for brake systems
- 12 mm, pentagon, for Nissan fuel pump
- 14 mm, pentagon, for Vauxhall / Smart
- 19 mm, pentagon, for PSA / Renault hand brake
- 20 mm, 10-point, for Honda Civic / CR-V trailing link

Item	Drive	pcs	Art. No.
Socket Set, automotive specialist	1/2"	10	4778



2

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	E12	1/2"	150 mm	*5006-E12*
Socket Bit	TX-Star	T55	1/2"	140 mm	12143/55
Socket Bit	TX-Star	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, 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		T50	18073/50	8 mm	18072/8
TX-Star		T55	18073/55	10 mm	18072/10
10 mm bit, 30 mm		Hexagon		12 mm	18072/12
T20	18033/20	10 mm bit, 30 mm		Spline	
T25	18033/25	4 mm	18022/4	10 mm bit, 30 mm	
T30	18033/30	5 mm	18022/5	M5	18011/5
T40	18033/40	6 mm	18022/6	M6	18011/6
T45	18033/45	7 mm	18022/7	M8	18011/8
T50	18033/50	8 mm	18022/8	M10	18011/10
T55	18033/55	10 mm	18022/10	M12	18011/12
10 mm bit, 75 mm		12 mm	18022/12	10 mm bit, 75 mm	
T20	18073/20	10 mm bit, 75 mm		M5	18071/5
T25	18073/25	4 mm	18072/4	M6	18071/6
T30	18073/30	5 mm	18072/5	M8	18071/8
T40	18073/40	6 mm	18072/6	M10	18071/10
T45	18073/45	7 mm	18072/7	M12	18071/12

Item	Drive	pcs	Art. No.
Socket Bit Set	3/8+1/2"	40	210/4

Socket Bit Set, 46 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		T55	18044/55	M5	18011/5
TX-Star		T60	18044/60	M6	18011/6
10 mm bit, 75 mm		Hexagon		M8	18011/8
T25	18073/25	10 mm bit, 30 mm		M10	18011/10
T30	18073/30	4 mm	18022/4	M12	18011/12
T40	18073/40	5 mm	18022/5	10 mm bit, 75 mm	
T45	18073/45	6 mm	18022/6	M6	18071/6
T50	18073/50	7 mm	18022/7	M8	18071/8
T55	18073/55	8 mm	18022/8	M10	18071/10
TX-Star tamperproof		10 mm	18022/10	M12	18071/12
10 mm bit, 30 mm		12 mm	18022/12	Plain Slot	
T10	18044/10	14 mm	18022/14	10 mm bit, 30 mm	
T15	18044/15	10 mm bit, 75 mm		8 mm	*18077/8*
T20	18044/20	5 mm	18072/5	10 mm	*18077/10*
T25	18044/25	6 mm	18072/6	Cross Slot PH	
T27	18044/27	7 mm	18072/7	10 mm bit, 30 mm	
T30	18044/30	8 mm	18072/8	PH1	*18088/1*
T40	18044/40	10 mm	18072/10	PH2	*18088/2*
T45	18044/45	Spline		PH3	*18088/3*
T50	18044/50	10 mm bit, 30 mm			

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

Flare Nut

Specialist Sockets, 6 pcs., 3/8", 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	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	3/8"	79 mm	*4757/17*
Line Socket	hexagon	19 mm	3/8"	79 mm	*4757/19*

Item	Size	Drive	pcs	Art. No.
Specialist Sockets	10-19 mm	3/8"	6	4757





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

- suitable for confined spaces, e.g. diesel injector lines, air conditioning, brakes, waterproof electric screw connections, electric sensors
- suitable for many manufacturers, e.g. Audi / VW, BMW, Mercedes, commercial vehicles, etc.

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



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

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

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



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

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

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

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

Impact Sockets

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

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



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

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



Impact Socket Set, 17 pcs., 3/4", CrMo, hex 19-55 mm

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*	55 mm	*22600/K55*
24 mm	22600/K24	36 mm	22600/K36		

Item	Size	Drive	pcs	Art. No.
Impact Socket Set	19-55 mm	3/4"	17	5240



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

Content		24 mm	22600/K24	32 mm	22600/K32
hexagon		27 mm	22600/K27	36 mm	22600/K36
3/4", standard		28 mm	22600/K28	38 mm	22600/K38
22 mm	22600/K22	30 mm	22600/K30		

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



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

Content		24 mm	22699/K24	32 mm	22699/K32
hexagon		27 mm	22699/K27	36 mm	22699/K36
3/4", deep		28 mm	22699/K28	38 mm	22699/K38
22 mm	22699/K22	30 mm	22699/K30		

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



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



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



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

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

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



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

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

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



Content					
Hexagon	5 mm	12072/K5	12 mm	12072/K12
1/2", 78 mm long	6 mm	12072/K6	14 mm	12072/K14
4 mm 12072/K4	8 mm	12072/K8	17 mm	12072/K17
	10 mm	12072/K10	19 mm	12072/K19

Item	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	4-19 mm	1/2"	9	5215

Impact Socket Bit Set, 9 pcs., 1/2", spline M4-16



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

Content					
Spline	M6	12071/K6	M14	12071/K14
1/2", 78 mm long	M8	12071/K8	M16	12071/K16
M4 12071/K4	M9	12071/K9	M18	12071/K18
M5 12071/K5	M10	12071/K10		
	M12	12071/K12		

Item	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	M4-16	1/2"	9	5211

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
M5 12075/K5	M8	12075/K8	M13	12075/K13
	M9	12075/K9	M14	12075/K14

Item	Size	Drive	pcs	Art. No.
Impact Socket Bit Set	M5-14	1/2"	9	5212

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	Art. No.
Impact Socket Set	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	Art. No.
Impact Socket Set	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

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

accessory

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

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



- includes hexagon key

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

Item	Drive	pcs	Art. No.
Impact Bit Set for Trucks	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*

Specialist Sockets, twist profile, 15 pcs., 1/4+1/2", 6-27 mm



- for removing damaged or rounded nuts and bolts
- aggresive twist profile
- includes 2 punches

Content					
Twist Profile		11 mm	*21200/X11*	17 mm	*22000/X17*
1/4", standard		12 mm	*21200/X12*	19 mm	*22000/X19*
6 mm	*21200/X6*	1/2", standard		21 mm	*22000/X21*
8 mm	*21200/X8*	13 mm	*22000/X13*	24 mm	*22000/X24*
10 mm	*21200/X10*	14 mm	*22000/X14*	27 mm	*22000/X27*
		15 mm	*22000/X15*		

Item	Size	Drive	pcs	Art. No.
Specialist Sockets	6-27 mm	1/4+1/2"	15	2115

Specialist Sockets, twist profile, 10 pcs., 3/8", 10-19 mm

- for removing damaged or rounded nuts and bolts
- aggresive 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.
Specialist Sockets	10-19 mm	3/8"	10	2109

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, 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*
2 mm	*2111/2*	6 mm	*2111/6*	14 mm	*2111/14*
3 mm	*2111/3*	8 mm	*2111/8*		

Item	Size	Drive	pcs	Art. No.
Specialist Sockets	2-14 mm	3/8+1/2"	9	2111

Ratchets

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	3/8"	72	205 mm	1205/2
Reversible Ratchet	ergonomic	1/2"	72	255 mm	1205/3

Reversible Ratchets

- quick-release mechanism



Item	Drive	Teeth	Length	Art. No.
Reversible Ratchet	1/4"	48	140 mm	1199/1
Reversible Ratchet	3/8"	48	200 mm	1199/2
Reversible Ratchet	1/2"	48	275 mm	1199/3

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

Ratchets



Item	Drive	Length	Art. No.
Ratchet	1/4"	140 mm	207/14CV
Ratchet	3/8"	200 mm	207/38CV
Ratchet	1/2"	250 mm	207/12CV

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

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

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

Reversible Swivel Ratchets



- quick-release mechanism

Item	Form	Drive	Teeth	Length	Art. No.
Reversible Ratchet	flexible head 360°	1/4"	48	180 mm	4600/1
Reversible Ratchet	flexible head 360°	3/8"	48	245 mm	4600/2
Reversible Ratchet	flexible head 360°	1/2"	48	310 mm	4600/3

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 Ratchet Set, 3 pcs.



- lockable in 3 positions (1208/1), 4 positions (1208/2), 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 Ratchets



- lockable in 3 positions (1208/1), 4 positions (1208/2), 6 positions (1208/3)
- 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

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



Item	Drive	Teeth	Length	Art. No.
Reversible Ratchet	3/4"	24	500 mm	22550
Reversible Ratchet	3/4"	24	1000 mm	22552



22550

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

2

Hand Palm Ratchet Set, 3 pcs.



- for hard-to-reach areas
- reversible left / right

Item	Drive	pcs	Art. No.
Hand Palm Ratchet Set	1/4+3/8+1/2"	3	1213

Repair Kits for Ratchet Heads



1/4" sq. drive		for 1199/2	1199/2-REP	for 1203/3, 1205/3, 1208/3, 4610/3	1205/3-REP
for 207/14CV	207/14-REP	for 1203/2, 1205/2, 1208/2, 4610/2	1205/2-REP	for 1206/3	1206/3-REP
for 1199/1	1199/1-REP	for 1206/2	1206/2-REP	for 1218/3	1218/3-REP
for 1203/1, 1205/1, 1208/1, 4610/1	1205/1-REP	for 1218/2	1218/2-REP	for 1219/3	1219/3-REP
for 1206/1	1206/1-REP	for 1219/2	1219/2-REP	3/4" sq. drive	
for 1218/1	1218/1-REP	1/2" sq. drive		for 22550, 22552	22550-REP
for 1219/1	1219/1-REP	for 207/12CV	207/12-REP	for 22555	22555-REP
3/8" sq. drive		for 1199/3	1199/3-REP	1" sq. drive	
for 207/38CV	207/38-REP			for 22760	22760-REP

Swivel Bars



22728

22730, 22740

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°	3/4"	620 mm	22740

Spinner Handle, 2-component grip



Item	Drive	Length	Art. No.
Spinner Handle	1/4"	150 mm	21116

Spinner Handle



Item	Drive	Length	Art. No.
Spinner Handle	1/4"	150 mm	21117

Flexible Screwdriver



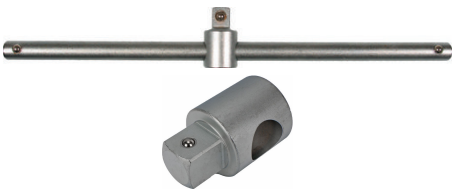
Item	Form	Drive	Length	Art. No.
Flexible Screwdriver	flexible	1/4"	280 mm	21115

Screwdriver



Item	Drive	Length	Art. No.
Screwdriver	1/4" hex	200 mm	21118

Sliding T-Bars



22720

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-Head	1"		22720

Extension Bars

Extension Bars

1/4" 3/8" 1/2" 3/4" 1" CrV

Item	Form	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	extra long	1/4"	300 mm	21107
Extension Bar	extra long	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	extra long	3/8"	610 mm	21560
Extension Bar		1/2"	125 mm	21900
Extension Bar		1/2"	250 mm	21905
Extension Bar	extra long	1/2"	610 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



Wobble Extension Bars

1/4" 3/8" 1/2" CrV

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"	75 mm	20075
Wobble Extension Bar	1/2"	125 mm	20125
Wobble Extension Bar	1/2"	250 mm	20250



Wobble Extension Bar Set, 9 pcs.

1/4" 3/8" 1/2" CrV

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.

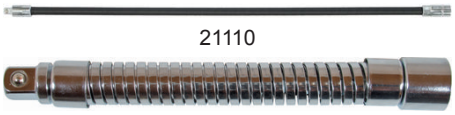
1/4" 3/8" 1/2" CrV

Item	Drive	Length	pcs	Art. No.
Wobble Extension Bar Set	1/4"	50, 150, 250 mm	3	20143
Wobble Extension Bar Set	3/8"	50, 150, 250 mm	3	20383
Wobble Extension Bar Set	1/2"	50, 125, 250 mm	3	20123



2

Flexible Extension Bars



21110

21918

Item	Form	Drive	Length	Art. No.
Flexible Extension Bar	flexible	1/4"	450 mm	21110
Flexible Extension Bar	flexible	1/2"	200 mm	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, 1/2" square (F) x 3/8" square (M)



Item	Drive	Length	Adapter for	Art. No.
Specialist Extension Bar	1/2"	600 mm	1/2" female x 3/8" male	21915

Lockable Extension Bars



Item	Form	Drive	Length	Art. No.
Extension Bar	lockable	3/8"	305 mm	21533
Extension Bar	lockable	3/8"	610 mm	21561
Extension Bar	lockable	1/2"	305 mm	21933

Adapters

Universal Joints



Item	Drive	Art. No.
Universal Joint	1/4"	21125
Universal Joint	3/8"	21525
Universal Joint	1/2"	21925

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

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, 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



additional sizes

Item	Art. No.
Impact Socket Converter, 3/4" female x 1" male	20611
Impact Socket Converter, 1" female x 3/4" male	20612



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	1/4"	1/4" bits	21926
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



Magnetic Holder

- for power drills and cordless screwdrivers

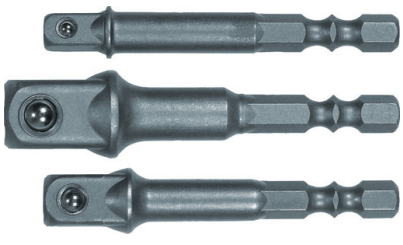
Item	Drive	Length	Adapter for	Art. No.
Magnetic Holder	1/4" hex	60 mm	1/4" hex, for 1/4" bits	21260



Adapter Set, 3 pcs.

- 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	19 mm	22600/19
1/4", standard		11 mm	21688/11	13 mm	22088/13	21 mm	22600/21
4 mm	21288/4	12 mm	21688/12	14 mm	22088/14	22 mm	22600/22
4.5 mm	21288/4.5	13 mm	21688/13	15 mm	22088/15	23 mm	22600/23
5 mm	21288/5	14 mm	21688/14	16 mm	22088/16	24 mm	22600/24
5.5 mm	21288/5.5	15 mm	21688/15	17 mm	22088/17	26 mm	22600/26
6 mm	21288/6	16 mm	21688/16	18 mm	22088/18	27 mm	22600/27
7 mm	21288/7	17 mm	21688/17	19 mm	22088/19	28 mm	22600/28
8 mm	21288/8	18 mm	21688/18	20 mm	22088/20	30 mm	22600/30
9 mm	21288/9	19 mm	21688/19	21 mm	22088/21	32 mm	22600/32
10 mm	21288/10	20 mm	21688/20	22 mm	22088/22	33 mm	22600/33
11 mm	21288/11	21 mm	21688/21	24 mm	22088/24	34 mm	22600/34
12 mm	21288/12	22 mm	21688/22	27 mm	22088/27	36 mm	22600/36
13 mm	21288/13	24 mm	21688/24	30 mm	22088/30	38 mm	22600/38
14 mm	21288/14	3/8", deep		32 mm	22088/32	41 mm	22600/41
1/4", deep		8 mm	21699/8	35 mm	22088/35	46 mm	22600/46
4 mm	21299/4	9 mm	21699/9	36 mm	22088/36	50 mm	22600/50
5 mm	21299/5	10 mm	21699/10	1/2", deep		1", standard	
5.5 mm	21299/5.5	11 mm	21699/11	10 mm	22099/10	36 mm	22800/36
6 mm	21299/6	12 mm	21699/12	11 mm	22099/11	38 mm	22800/38
7 mm	21299/7	13 mm	21699/13	12 mm	22099/12	41 mm	22800/41
8 mm	21299/8	14 mm	21699/14	13 mm	22099/13	46 mm	22800/46
9 mm	21299/9	15 mm	21699/15	14 mm	22099/14	50 mm	22800/50
10 mm	21299/10	16 mm	21699/16	15 mm	22099/15	55 mm	22800/55
11 mm	21299/11	17 mm	21699/17	16 mm	22099/16	60 mm	22800/60
12 mm	21299/12	18 mm	21699/18	17 mm	22099/17	65 mm	22800/65
13 mm	21299/13	19 mm	21699/19	18 mm	22099/18	70 mm	22800/70
3/8", standard		1/2", standard		19 mm	22099/19	75 mm	22800/75
6 mm	21688/6	8 mm	22088/8	21 mm	22099/21	80 mm	22800/80
7 mm	21688/7	9 mm	22088/9	22 mm	22099/22		
8 mm	21688/8	10 mm	22088/10	24 mm	22099/24		
9 mm	21688/9	11 mm	22088/11	3/4", standard			



Super-Lock Sockets

Super-Lock		10 mm	21277/10	24 mm	21600/24	18 mm	22000/18
1/4", standard		11 mm	21277/11	3/8", deep		19 mm	22000/19
4 mm	21200/4	12 mm	21277/12	8 mm	21677/8	20 mm	22000/20
4.5 mm	21200/4.5	13 mm	21277/13	9 mm	21677/9	21 mm	22000/21
5 mm	21200/5	3/8", standard		10 mm	21677/10	22 mm	22000/22
5.5 mm	21200/5.5	6 mm	21600/6	11 mm	21677/11	23 mm	22000/23
6 mm	21200/6	7 mm	21600/7	12 mm	21677/12	24 mm	22000/24
7 mm	21200/7	8 mm	21600/8	13 mm	21677/13	25 mm	22000/25
8 mm	21200/8	9 mm	21600/9	14 mm	21677/14	26 mm	22000/26
9 mm	21200/9	10 mm	21600/10	15 mm	21677/15	27 mm	22000/27
10 mm	21200/10	11 mm	21600/11	17 mm	21677/17	28 mm	22000/28
11 mm	21200/11	12 mm	21600/12	19 mm	21677/19	29 mm	22000/29
12 mm	21200/12	13 mm	21600/13	1/2", standard		30 mm	22000/30
13 mm	21200/13	14 mm	21600/14	8 mm	22000/8	32 mm	22000/32
14 mm	21200/14	15 mm	21600/15	9 mm	22000/9	1/2", deep	
1/4", deep		16 mm	21600/16	10 mm	22000/10	13 mm	22077/13
4 mm	21277/4	17 mm	21600/17	11 mm	22000/11	14 mm	22077/14
5 mm	21277/5	18 mm	21600/18	12 mm	22000/12	15 mm	22077/15
5.5 mm	21277/5.5	19 mm	21600/19	13 mm	22000/13	16 mm	22077/16
6 mm	21277/6	20 mm	21600/20	14 mm	22000/14	17 mm	22077/17
7 mm	21277/7	21 mm	21600/21	15 mm	22000/15	18 mm	22077/18
8 mm	21277/8	22 mm	21600/22	16 mm	22000/16	19 mm	22077/19
9 mm	21277/9	23 mm	21600/23	17 mm	22000/17	22 mm	22077/22

Hexagon Inch Sockets

Hexagon inch		1/2"	14Z/1/2	3/8"	12Z/3/8	1.1/8"	12Z1/1/8
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	22044/16	32 mm	22044/32	28 mm	22644/28
1/2", standard		17 mm	22044/17	36 mm	22044/36	30 mm	22644/30
8 mm	22044/8	18 mm	22044/18	3/4", standard		32 mm	22644/32
9 mm	22044/9	19 mm	22044/19	19 mm	22644/19	34 mm	22644/34
10 mm	22044/10	20 mm	22044/20	21 mm	22644/21	36 mm	22644/36
11 mm	22044/11	21 mm	22044/21	22 mm	22644/22	38 mm	22644/38
12 mm	22044/12	22 mm	22044/22	23 mm	22644/23	41 mm	22644/41
13 mm	22044/13	24 mm	22044/24	24 mm	22644/24	46 mm	22644/46
14 mm	22044/14	27 mm	22044/27	26 mm	22644/26	50 mm	22644/50
15 mm	22044/15	30 mm	22044/30	27 mm	22644/27		



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 Sockets

TX-Star		E5	22420/E5	1/2", standard		E10	22460/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			



2

TX-Star Socket Bits



TX-Star		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 Tamperproof Socket Bits



TX-Star tamperproof		T27	14044/27	T45	12044/45	T40	12104/40
1/4", 37 mm long		T30	14044/30	T50	12044/50	T45	12104/45
T7	14044/7	T40	14044/40	T55	12044/55	T50	12104/50
T8	14044/8	1/2", 55 mm long		T60	12044/60	T55	12104/55
T9	14044/9	T20	12044/20	T70	12044/70	T80	12104/80
T10	14044/10	T25	12044/25	1/2", 100 mm long		1/2", 300 mm long	
T15	14044/15	T27	12044/27	T20	12104/20	T30	12304/30
T20	14044/20	T30	12044/30	T25	12104/25		
T25	14044/25	T40	12044/40	T30	12104/30		

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	1/2", 140 mm long		10 mm	12202/10
4 mm	14022/4	17 mm	12022/17	5 mm	12142/5	12 mm	12202/12
5 mm	14022/5	18 mm	12022/18	6 mm	12142/6	1/2", 230 mm long	
6 mm	14022/6	19 mm	12022/19	7 mm	12142/7	7 mm	12232/7
7 mm	14022/7	22 mm	12022/22	8 mm	12142/8	Ball-Head	
8 mm	14022/8	24 mm	12022/24	10 mm	12142/10	1/2", 140 mm long	
1/2", 55 mm long		1/2", 100 mm long		11 mm	12142/11	5 mm	5055/5
4 mm	12022/4	5 mm	12102/5	12 mm	12142/12	6 mm	5055/6
5 mm	12022/5	6 mm	12102/6	13 mm	12142/13	7 mm	5055/7
6 mm	12022/6	7 mm	12102/7	14 mm	12142/14	8 mm	5055/8
7 mm	12022/7	8 mm	12102/8	1/2", 200 mm long		10 mm	5055/10
8 mm	12022/8	10 mm	12102/10	5 mm	12202/5	12 mm	5055/12
10 mm	12022/10	11 mm	12102/11	6 mm	12202/6		

Spline Socket Bits



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

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

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		



TX-Star Bits

TX-Star		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	17033/70	T45	18033/45	T25	18073/25		
10 mm bit, 30 mm		T50	18033/50	T27	18073/27		



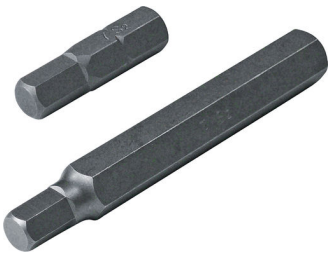
TX-Star Tamperproof Bits

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		14 mm bit, 75 mm	
T27	17044/27	T20	18044/20	T10	18074/10	T55	19074/55
T30	17044/30	T25	18044/25	T15	18074/15	T60	19074/60
T40	17044/40	T27	18044/27	T20	18074/20	T70	19074/70
T45	17044/45	T30	18044/30	T25	18074/25		
T50	17044/50	T40	18044/40	T27	18074/27		



Hexagon Bits

Hexagon		14 mm	17022/14	8 mm	18022/8	5 mm	18072/5
8 mm bit, 30 mm		10 mm bit, 30 mm		10 mm	18022/10	6 mm	18072/6
7 mm	17022/7	4 mm	18022/4	12 mm	18022/12	7 mm	18072/7
8 mm	17022/8	5 mm	18022/5	14 mm	18022/14	8 mm	18072/8
10 mm	17022/10	6 mm	18022/6	10 mm bit, 75 mm		10 mm	18072/10
12 mm	17022/12	7 mm	18022/7	4 mm	18072/4	12 mm	18072/12



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							
8 mm bit, 30 mm		M5	18011/5	M14	18011/14	M10	18071/10
M10	17011/10	M6	18011/6	10 mm bit, 75 mm		M12	18071/12
M12	17011/12	M8	18011/8	M5	18071/5	M14	18071/14
10 mm bit, 30 mm		M10	18011/10	M6	18071/6		
		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		13 mm	22099/K13	27 mm	22600/K27	33 mm	22699/K33
1/2", standard		14 mm	22099/K14	28 mm	22600/K28	36 mm	22699/K36
10 mm	22000/K10	15 mm	22099/K15	30 mm	22600/K30	38 mm	22699/K38
12 mm	22000/K12	16 mm	22099/K16	32 mm	22600/K32	1", standard	
13 mm	22000/K13	17 mm	22099/K17	36 mm	22600/K36	27 mm	22800/K27
14 mm	22000/K14	18 mm	22099/K18	38 mm	22600/K38	30 mm	22800/K30
15 mm	22000/K15	19 mm	22099/K19	3/4", deep		32 mm	22800/K32
17 mm	22000/K17	21 mm	22099/K21	22 mm	22699/K22	36 mm	22800/K36
19 mm	22000/K19	22 mm	22099/K22	24 mm	22699/K24	38 mm	22800/K38
21 mm	22000/K21	24 mm	22099/K24	27 mm	22699/K27	41 mm	22800/K41
22 mm	22000/K22	3/4", standard		28 mm	22699/K28	46 mm	22800/K46
24 mm	22000/K24	22 mm	22600/K22	30 mm	22699/K30	50 mm	22800/K50
1/2", deep		24 mm	22600/K24	32 mm	22699/K32		

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	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"	100 mm	4803/46

Spline Impact Socket Bits

Spline		M6	12071/K6	M12	12071/K12
1/2", 78 mm long		M8	12071/K8	M14	12071/K14
M4	12071/K4	M9	12071/K9	M16	12071/K16
M5	12071/K5	M10	12071/K10	M18	12071/K18



Hexagon Impact Socket Bits

Hexagon		6 mm	12072/K6	14 mm	12072/K14
1/2", 78 mm long		8 mm	12072/K8	17 mm	12072/K17
4 mm	12072/K4	10 mm	12072/K10	19 mm	12072/K19
5 mm	12072/K5	12 mm	12072/K12		



TX-Star Impact Socket Bits

TX-Star		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
T25	12073/K25	T45	12073/K45	T70	12073/K70



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


3780


3781


3782

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

Combination Spanners

Combination Spanner Set, matt finish, 25 pcs.



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

Item	Range	pcs	Art. No.
Combination Spanner Set	6-32 mm	25	2135

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

Combination Spanners, ring side offset, 12 pcs.



Content					
Spanners	10 mm	*3612/10*	15 mm	*3612/15*	
Combination Spanner	11 mm	*3612/11*	16 mm	*3612/16*	
8 mm	*3612/8*	12 mm	*3612/12*	17 mm	*3612/17*
9 mm	*3612/9*	13 mm	*3612/13*	18 mm	*3612/18*
		14 mm	*3612/14*	19 mm	*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

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, 12 pcs.

Content		8 mm	3525/8	14 mm	3525/14
Combination Spanner		10 mm	3525/10	15 mm	3525/15
chrome plated		11 mm	3525/11	17 mm	3525/17
6 mm	3525/6	12 mm	3525/12	19 mm	3525/19
7 mm	3525/7	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		8 mm	3525/8	14 mm	3525/14
Combination Spanner		10 mm	3525/10	17 mm	3525/17
chrome plated		11 mm	3525/11	19 mm	3525/19
6 mm	3525/6	13 mm	3525/13		

Item	Range	pcs	Art. No.
Combination Spanner Set	8-19 mm	8	35/8T



Combination Spanners, chrome plated

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



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	Art. No.
Combination Spanner	1/4"	extra short	*44Z/1/4*
Combination Spanner	5/16"	extra short	*44Z/5/16*
Combination Spanner	3/8"	extra short	*44Z/3/8*
Combination Spanner	7/16"	extra short	*44Z/7/16*
Combination Spanner	1/2"	extra short	*44Z/1/2*
Combination Spanner	9/16"	extra short	*44Z/9/16*
Combination Spanner	5/8"	extra short	*44Z/5/8*
Combination Spanner	11/16"	extra short	*44Z/11/16*
Combination Spanner	3/4"	extra short	*44Z/3/4*

Item	Form	Range	pcs	Art. No.
Combination Spanner Set	extra short	1/4-3/4"	9	4409



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 Spanner Set, Varioplus, 12 pcs.

Content					
Combination Spanner		10 mm	*2112/10*	15 mm	*2112/15*
varioplus		11 mm	*2112/11*	16 mm	*2112/16*
8 mm	*2112/8*	12 mm	*2112/12*	17 mm	*2112/17*
9 mm	*2112/9*	13 mm	*2112/13*	18 mm	*2112/18*
		14 mm	*2112/14*	19 mm	*2112/19*

Item	Range	pcs	Art. No.
Combination Spanner Set	8-19 mm	12	2112



Ring Spanners

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 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, 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	24x27 mm	flat	445 mm	4406/27
Ring Spanner	30x32 mm	flat	460 mm	4406/32

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

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

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 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		



Double Ended Open Jaw Spanner Set, extra flat, 6 pcs.

Content	Size	Form	Length	Art. No.
Open Ended Spanner	8x9 mm	extra flat	175 mm	*4456/8x9*
Open Ended Spanner	10x11 mm	extra flat	175 mm	*4456/10x11*
Open Ended Spanner	12x13 mm	extra flat	210 mm	*4456/12x13*
Open Ended Spanner	14x15 mm	extra flat	210 mm	*4456/14x15*
Open Ended Spanner	16x17 mm	extra flat	245 mm	*4456/16x17*
Open Ended Spanner	18x19 mm	extra flat	245 mm	*4456/18x19*

Item	Form	Range	pcs	Art. No.
Double Ended Open Jaw Spanner Set	extra flat	8-19 mm	6	4456





Double Ended Open Jaw Spanner Set, 8 pcs.

- chrome plated, carbon steel

Item	pcs	Art. No.
Double Ended Open Jaw Spanner Set	8	20/8S



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

Ratchet Ring Spanners



Ratchet Spanner Set, 13 pcs., 8-32 mm

Content	Size	Length	Art. No.
Ratchet Spanner	8 mm	134 mm	4100/8
Ratchet Spanner	9 mm	152 mm	4100/9
Ratchet Spanner	10 mm	152 mm	4100/10
Ratchet Spanner	11 mm	163 mm	4100/11
Ratchet Spanner	12 mm	166 mm	4100/12
Ratchet Spanner	13 mm	176 mm	4100/13
Ratchet Spanner	14 mm	188 mm	4100/14
Ratchet Spanner	15 mm	198 mm	4100/15
Ratchet Spanner	16 mm	205 mm	4100/16
Ratchet Spanner	17 mm	223 mm	4100/17
Ratchet Spanner	18 mm	233 mm	4100/18
Ratchet Spanner	19 mm	245 mm	4100/19
Ratchet Spanner	21 mm	278 mm	4100/21
Ratchet Spanner	22 mm	278 mm	4100/22
Ratchet Spanner	24 mm	308 mm	4100/24
Ratchet Spanner	27 mm	326 mm	4100/27
Ratchet Spanner	30 mm	422 mm	4100/30
Ratchet Spanner	32 mm	422 mm	4100/32

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-32 mm	13	4013



Ratchet Spanner Set, 12 pcs., 8-19 mm

Content	Size	Length	Art. No.
Ratchet Spanner	8 mm	134 mm	4100/8
Ratchet Spanner	9 mm	152 mm	4100/9
Ratchet Spanner	10 mm	152 mm	4100/10
Ratchet Spanner	11 mm	163 mm	4100/11
Ratchet Spanner	12 mm	166 mm	4100/12
Ratchet Spanner	13 mm	176 mm	4100/13
Ratchet Spanner	14 mm	188 mm	4100/14
Ratchet Spanner	15 mm	198 mm	4100/15
Ratchet Spanner	16 mm	205 mm	4100/16
Ratchet Spanner	17 mm	223 mm	4100/17
Ratchet Spanner	18 mm	233 mm	4100/18
Ratchet Spanner	19 mm	245 mm	4100/19

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-19 mm	12	4012

Ratchet Spanner Set, 6 pcs., 8-19 mm

Content	Size	Length	Art. No.
Ratchet Spanner	8 mm	134 mm	4100/8
Ratchet Spanner	10 mm	152 mm	4100/10
Ratchet Spanner	12 mm	166 mm	4100/12
Ratchet Spanner	13 mm	176 mm	4100/13
Ratchet Spanner	17 mm	223 mm	4100/17
Ratchet Spanner	19 mm	245 mm	4100/19

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-19 mm	6	4006



Ratchet Spanners

Spanners		13 mm	4100/13	21 mm	4100/21
Ratchet Wrench		14 mm	4100/14	22 mm	4100/22
8 mm	4100/8	15 mm	4100/15	24 mm	4100/24
9 mm	4100/9	16 mm	4100/16	27 mm	4100/27
10 mm	4100/10	17 mm	4100/17	30 mm	4100/30
11 mm	4100/11	18 mm	4100/18	32 mm	4100/32
12 mm	4100/12	19 mm	4100/19		



Ratchet Spanner Set, 12 pcs., flexible head, 8-19 mm

Content	Size	Form	Length	Art. No.
Ratchet Spanner	8 mm	flexible	135 mm	4200/8
Ratchet Spanner	9 mm	flexible	157 mm	4200/9
Ratchet Spanner	10 mm	flexible	160 mm	4200/10
Ratchet Spanner	11 mm	flexible	173 mm	4200/11
Ratchet Spanner	12 mm	flexible	174 mm	4200/12
Ratchet Spanner	13 mm	flexible	185 mm	4200/13
Ratchet Spanner	14 mm	flexible	195 mm	4200/14
Ratchet Spanner	15 mm	flexible	213 mm	4200/15
Ratchet Spanner	16 mm	flexible	215 mm	4200/16
Ratchet Spanner	17 mm	flexible	228 mm	4200/17
Ratchet Spanner	18 mm	flexible	248 mm	4200/18
Ratchet Spanner	19 mm	flexible	247 mm	4200/19

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-19 mm	12	4026



Ratchet Spanner Set, 6 pcs., flexible head, 8-19 mm

Content	Size	Form	Length	Art. No.
Ratchet Spanner	8 mm	flexible	135 mm	4200/8
Ratchet Spanner	10 mm	flexible	160 mm	4200/10
Ratchet Spanner	12 mm	flexible	174 mm	4200/12
Ratchet Spanner	13 mm	flexible	185 mm	4200/13
Ratchet Spanner	17 mm	flexible	228 mm	4200/17
Ratchet Spanner	19 mm	flexible	247 mm	4200/19

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-19 mm	6	4024



Ratchet Spanners, flexible head

Ratchet Spanners		11 mm	4200/11	16 mm	4200/16
flexible		12 mm	4200/12	17 mm	4200/17
8 mm	4200/8	13 mm	4200/13	18 mm	4200/18
9 mm	4200/9	14 mm	4200/14	19 mm	4200/19
10 mm	4200/10	15 mm	4200/15		



Ratchet Spanner Set, Varioplus, 12 pcs.



Content	Profile	Size	Art. No.
Ratchet Spanner	varioplus	8 mm	*4035/8*
Ratchet Spanner	varioplus	9 mm	*4035/9*
Ratchet Spanner	varioplus	10 mm	*4035/10*
Ratchet Spanner	varioplus	11 mm	*4035/11*
Ratchet Spanner	varioplus	12 mm	*4035/12*
Ratchet Spanner	varioplus	13 mm	*4035/13*
Ratchet Spanner	varioplus	14 mm	*4035/14*
Ratchet Spanner	varioplus	15 mm	*4035/15*
Ratchet Spanner	varioplus	16 mm	*4035/16*
Ratchet Spanner	varioplus	17 mm	*4035/17*
Ratchet Spanner	varioplus	18 mm	*4035/18*
Ratchet Spanner	varioplus	19 mm	*4035/19*

Item	Range	pcs	Art. No.
Ratchet Spanner Set	8-19 mm	12	4035

Reversible Ratchet Spanner Set, stubby, 12 pcs.



Content	Size	Form	Description	Art. No.
Ratchet Spanner	8 mm	extra short	reversible	*4045/8*
Ratchet Spanner	9 mm	extra short	reversible	*4045/9*
Ratchet Spanner	10 mm	extra short	reversible	*4045/10*
Ratchet Spanner	11 mm	extra short	reversible	*4045/11*
Ratchet Spanner	12 mm	extra short	reversible	*4045/12*
Ratchet Spanner	13 mm	extra short	reversible	*4045/13*
Ratchet Spanner	14 mm	extra short	reversible	*4045/14*
Ratchet Spanner	15 mm	extra short	reversible	*4045/15*
Ratchet Spanner	16 mm	extra short	reversible	*4045/16*
Ratchet Spanner	17 mm	extra short	reversible	*4045/17*
Ratchet Spanner	18 mm	extra short	reversible	*4045/18*
Ratchet Spanner	19 mm	extra short	reversible	*4045/19*

Item	Form	Range	pcs	Art. No.
Reversible Ratchet Spanner Set	extra short	8-19 mm	12	4045

Double Head Ratchet Spanner Set, 4 pcs., tx-star E6-24



Content	Profile	Size	Art. No.
Double Head Ratchet Spanner	tx-star	E6x8	*4065/6x8*
Double Head Ratchet Spanner	tx-star	E10x12	*4065/10x12*
Double Head Ratchet Spanner	tx-star	E14x18	*4065/14x18*
Double Head Ratchet Spanner	tx-star	E20x24	*4065/20x24*

Item	Range	pcs	Art. No.
Double Head Ratchet Spanner Set	E6-24	4	4065

Ring Ratchet Spanner Set, mirror polish, 6 pcs.



Content	Size	Form	Length	Art. No.
Ring Ratchet Spanner	10 mm	flat	295 mm	*4055/10*
Ring Ratchet Spanner	12 mm	flat	330 mm	*4055/12*
Ring Ratchet Spanner	13 mm	flat	370 mm	*4055/13*
Ring Ratchet Spanner	14 mm	flat	370 mm	*4055/14*
Ring Ratchet Spanner	17 mm	flat	410 mm	*4055/17*
Ring Ratchet Spanner	19 mm	flat	420 mm	*4055/19*

Item	Form	Range	pcs	Art. No.
Ring Ratchet Spanner Set	flat	10-19 mm	6	4055

Adapter Set for Ratchet Spanners, 4 pcs.

Item	Content Sizes	pcs	Art. No.
Adapter Set for Ratchet Spanners	for 1/4, 3/8, 1/2" sq. drive + 1/4" bits	4	4090



Flare Nut Spanners

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 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, 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

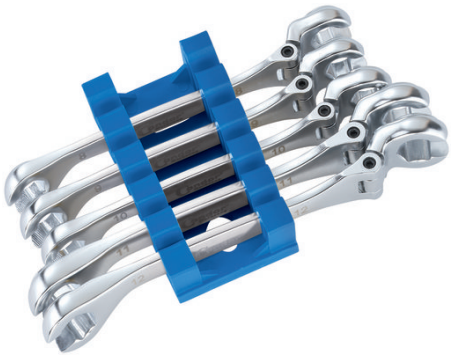


Flare Nut Spanners

Item	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



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	Range	pcs	Art. No.
Flare Nut Spanner	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		10 mm	4079/10	14 mm	4079/14
one side flexible		11 mm	4079/11	17 mm	4079/17
8 mm	4079/8	12 mm	4079/12	19 mm	4079/19
9 mm	4079/9	13 mm	4079/13		

Flare Nut Spanner Set, 6 pcs., flexible heads, 8-19 mm



- 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	8x9 mm	both sides flexible	*4080/1*
Flare Nut Spanner, flexible head	10x11 mm	both sides flexible	*4080/2*
Flare Nut Spanner, flexible head	12x13 mm	both sides flexible	*4080/3*
Flare Nut Spanner, flexible head	14x15 mm	both sides flexible	*4080/4*
Flare Nut Spanner, flexible head	16x17 mm	both sides flexible	*4080/5*
Flare Nut Spanner, flexible head	18x19 mm	both sides flexible	*4080/6*

Item	Range	pcs	Art. No.
Flare Nut Spanner	8-19 mm	6	4080

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	Range	pcs	Art. No.
Flare Nut Spanner	1/4-15/16"	6	4082

Flare Nut Ratchet Spanners

CrV

- 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	8 mm	160 mm	4077/8
Flare Nut Ratchet Spanner	10 mm	160 mm	4077/10
Flare Nut Ratchet Spanner	11 mm	171 mm	4077/11
Flare Nut Ratchet Spanner	12 mm	175 mm	4077/12

Ratchet Ring Spanner Set, 6 pcs., 10-22 mm

CrMo

- 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	11 mm	140 mm	*4088/11*
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	6	4088/6

Ratchet Ring Spanner Set, 4 pcs., 24-32 mm

CrMo

- 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

Spanners, miscellaneous

Double Flexible Socket Wrench Set, 6 pcs., hex 8-19 mm



Content	Profile	Size	Art. No.
Double Flex. Socket Wrench	hexagon	8x9 mm	*132/8x9*
Double Flex. Socket Wrench	hexagon	10x11 mm	*132/10x11*
Double Flex. Socket Wrench	hexagon	12x13 mm	*132/12x13*
Double Flex. Socket Wrench	hexagon	14x15 mm	*132/14x15*
Double Flex. Socket Wrench	hexagon	16x17 mm	*132/16x17*
Double Flex. Socket Wrench	hexagon	18x19 mm	*132/18x19*

Item	Range	pcs	Art. No.
Double Flexible Socket Wrench Set	8-19 mm	6	132/6

Double Flexible Socket Wrench Set, 4 pcs., hex 20-32 mm



Content	Profile	Size	Art. No.
Double Flex. Socket Wrench	hexagon	20x22 mm	*132/20x22*
Double Flex. Socket Wrench	hexagon	21x23 mm	*132/21x23*
Double Flex. Socket Wrench	hexagon	24x27 mm	*132/24x27*
Double Flex. Socket Wrench	hexagon	30x32 mm	*132/30x32*

Item	Range	pcs	Art. No.
Double Flexible Socket Wrench Set	20-32 mm	4	132/4

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

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

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

CrV

- range 11 mm and higher

Item	Size	Description	Length	Art. No.
Face Spanner	ø 4 mm	pin-ø 4 mm	180 mm	4490



Four Way Wheel Nut Wrenches

Item	Description	Length	Art. No.
Four Way Wheel Nut Wrench	17x19x22 mm x 13/16", material ø 16 mm	285 mm	87
Four Way Wheel Nut Wrench, for trucks	24x27x30 mm x 3/4" sq. drive, material ø 22 mm	703 mm	87/1



87



87/1

Wheel Nut Wrench

CrV

- extendable up to 500 mm
- chrome-vanadium-steel

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



Tubular Box Spanner Set, 8 pcs.

Item	Range	Content Sizes	pcs	Art. No.
Tubular Box Spanner Set	6-22 mm	6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 mm	8	125



Podger Spanners

CrV

Item	Size	Length	Art. No.
Podger Spanner	19x22 mm	320 mm	45
Podger Spanner	19x24 mm	365 mm	45/1



Combination Spanner Sets, HEAD-STOP

CrV

- specialist profile HEAD-STOP, prevents slipping off nuts and bolts

Item	Range	Content Sizes	pcs	Art. No.
Combination Spanner Set	6-32 mm	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm	22	4422
Combination Spanner Set	6-32 mm	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 mm	26	4426



Screwdrivers

Screwdrivers



Item	Profile	Size	Blade Length	Material	Art. No.
Screwdriver	Plain Slot	6.5 mm	38 mm	CR-MO	930/607
Screwdriver	Plain Slot	3 mm	60 mm	CR-MO	930/317
Screwdriver	Plain Slot	5.5 mm	100 mm	CR-MO	930/517
Screwdriver	Plain Slot	6.5 mm	125 mm	CR-MO	930/617
Screwdriver	Plain Slot	8 mm	150 mm	CR-MO	930/817
Screwdriver	Plain Slot	9.5 mm	175 mm	CR-MO	930/917
Screwdriver	Cross Slot PH	PH2	38 mm	CR-MO	930/208
Screwdriver	Cross Slot PH	PH1	75 mm	CR-MO	930/118
Screwdriver	Cross Slot PH	PH2	100 mm	CR-MO	930/218
Screwdriver	Cross Slot PH	PH3	125 mm	CR-MO	930/318
Screwdriver	TX-Star	T10	80 mm	CR-V S2	930/103
Screwdriver	TX-Star	T15	80 mm	CR-V S2	930/153
Screwdriver	TX-Star	T20	100 mm	CR-V S2	930/203
Screwdriver	TX-Star	T25	100 mm	CR-V S2	930/253
Screwdriver	TX-Star	T27	125 mm	CR-V S2	930/273
Screwdriver	TX-Star	T30	125 mm	CR-V S2	930/303
Screwdriver	TX-Star	T40	150 mm	CR-V S2	930/403

Screwdriver Set, 10 pcs.



- chrome-molybdenum-steel
- go-through hexagon blade
- magnetic tips

Content					
Screwdriver		6.5x125 mm	930/617	PH1x75 mm	930/118
Plain Slot		8x150 mm	930/817	PH2x100 mm	930/218
6.5x38 mm	930/607	9.5x175 mm	930/917	PH3x125 mm	930/318
5.5x100 mm	930/517	Cross Slot PH			
		PH2x38 mm	930/208		

Item	pcs	Art. No.
Screwdriver Set	10	930

Miscellaneous Tools	
Magnetic Pick-Up Tool, telescopic	930/M

Screwdriver Set, 12 pcs.



- go-through hexagon blade
- magnetic tips

Content					
Screwdriver		6x100 mm	*912/617*	PH1x75 mm	*912/118*
Plain Slot		8x150 mm	*912/817*	PH2x100 mm	*912/218*
6x38 mm	*912/607*	9.5x200 mm	*912/917*	PH3x150 mm	*912/318*
3,2x75 mm	*912/317*	Cross Slot PH		PH4x200 mm	*912/418*
5x75 mm	*912/517*	PH2x38 mm	*912/208*		
		PH0x75 mm	*912/018*		

Item	pcs	Art. No.
Screwdriver Set	12	912

Screwdriver Set, 10 pcs.



Content					
Screwdriver		5x75 mm	*907/517*	PH0x60 mm	*907/018*
Plain Slot		6x100 mm	*907/617*	PH1x75 mm	*907/118*
6x38 mm	*907/607*	8x125 mm	*907/817*	PH2x100 mm	*907/218*
4x60 mm	*907/417*	Cross Slot PH		PH3x125 mm	*907/318*
		PH2x38 mm	*907/208*		

Item	pcs	Art. No.
Screwdriver Set	10	907/10

Insulated Screwdriver Set, 7 pcs.

- 1000V

Content					
Screwdriver		4x100 mm	*937/417*	PH1x80 mm	*937/118*
Plain Slot		5,5x125 mm	*937/517*	PH2x100 mm	*937/218*
3x75 mm	*937/317*	6,5x150 mm	*937/617*		
		Cross Slot PH			

Item	pcs	Art. No.
Insulated Screwdriver Set	7	937



Miscellaneous Tools	
Mains Tester, 220-250 V, 140 mm	570

Screwdrivers, extra long

- magnetic tips

Item	Profile	Size	Blade Length	Art. No.
Screwdriver, extra long	Plain Slot	6.5 mm	450 mm	20450/6
Screwdriver, extra long	Plain Slot	8 mm	450 mm	20450/8
Screwdriver, extra long	Cross Slot PH	PH2	450 mm	20450/2
Screwdriver, extra long	Cross Slot PH	PH3	450 mm	20450/3



Flexible Screwdriver

Item	Description	Length	Art. No.
Flexible Screwdriver	1/4" hex (female)	500 mm	920B



Hose Clamp Screwdriver 2 in 1

- flexible shaft

Item	Description	Length	Art. No.
Hose Clamp Screwdriver	reversible adapter, 6 / 7 mm	320 mm	921



Screwdriver with Bits, 6 pcs.

- with dispenser

Item	Plain Slot	Cross Slot PH	Art. No.
Screwdriver	6.5 mm	PH 1, 2	327



Reversible Blade Screwdriver

- nickel plated
- transparent red plastic handle
- reversible blade

Item	Plain Slot	Cross Slot PH	Blade Length	Art. No.
Reversible Blade Screwdriver	6 mm	PH 2	140 mm	560



Reversible Blade Screwdriver

- nickel plated
- transparent red plastic handle
- reversible blade

Item	Plain Slot	Cross Slot PH	Blade Length	Art. No.
Reversible Blade Screwdriver	6 mm	PH 2	80 mm	562



4

Precision Screwdriver Set, 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, 8 pcs.



- expandable 125-200 mm
- 7 reversible blades:
  3 plain slot: 2, 3, 4 mm
  3 cross slot: PH00, 0, 1
  8 tx-star: T6, 7, 8, 9, 10, 15 (2x), 20

Item	Description	pcs	Art. No.
Electronic Screwdriver Set	reversible blades	8	346

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

Electronic Screwdriver Set, 6 pcs.



- total length: 140 mm
- blade length: 50 mm
- 4 plain slot: 1.5, 2, 2.5, 3 mm
- 2 cross slot: PH00, 0

Item	Description	pcs	Art. No.
Electronic Screwdriver Set	in stand	6	347

Screwdriver



Item	Drive	Description	Length	Art. No.
Screwdriver	1/4" hex	magnetic	200 mm	21118

Bits

Precision Screwdriver Set, 44 pcs.



- chrome-molybdenum-steel
- sockets:
  6 hexagon: 2.5, 3.0, 3.5, 4.0, 4.5, 5.0 mm
- bits, length: 28 mm
  9 tx-star: T4, 5, 6, 7, 8, 9, 10, 15, 20
  7 plain slot: 1, 1.5, 2, 2.5, 3, 3.5, 4 mm
  4 cross slot PH: PH 000, 00, 0, 1
  2 cross slot PZ: PZ 0, 1
  8 hexagon: 0.7, 0.9, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0 mm
- 6 reversible blades, 120 mm long:
  3 plain slot: 2, 3, 4 mm
  3 cross slot: PH 00, 0, 1
  6 tx-star tamperproof: T5, 6, 8, 10, 15, 20
- accessory:
  1 ratchet screwdriver with telescopic extension up to 115 mm
  1 flexible extension 200 mm

Item	Drive	pcs	Art. No.
Precision Screwdriver Set	4 mm hex	44	2045

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

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

Bit Set, 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

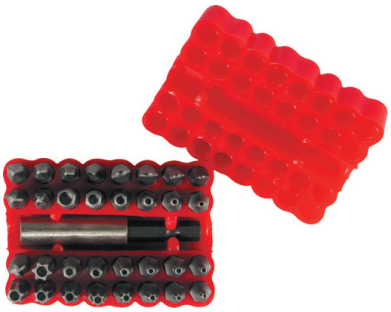
Security Bit Set, 55 pcs.



- 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

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	75 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	75 mm	*17188/3*

Item	Drive	pcs	Art. No.
Impact Driver Bits	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	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

Keys

Key Sets, extra long

- plastic holder

Item	Profile	Size	pcs	Art. No.
Ball End Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	1121/1
Ball End 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	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121/2
Key Set	5-Star tamper-proof	TS10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121/5



Key Sets

- plastic holder
- extra short arm

Item	Profile	Size	pcs	Art. No.
Ball End Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	1121/3
Key Set	tx-star	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121/4



Key Sets, magnetic

- plastic holder

Item	Profile	Size	pcs	Art. No.
Ball End Key Set	Hexagon	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	9	1121/6
Key Set	tx-star	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1121/7



Key Set

- plastic holder

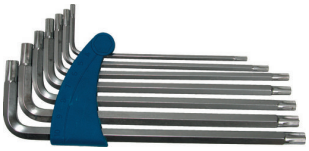
Item	Profile	Size	pcs	Art. No.
Ball End Key Set	Hexagon	2.5, 3, 4, 5, 6, 8, 10 mm	7	1120



Key Set

- plastic holder

Item	Profile	Size	pcs	Art. No.
Key Set	Spline (for Ribe)	M4, 5, 6, 7, 8, 9, 10	7	2007



Key Set

Item	Profile	Size	pcs	Art. No.
Key Set	TX-Star	T25, 30, 40, 45, 50, 55	6	165



Key Set, extra long

Item	Profile	Size	pcs	Art. No.
Ball End Key Set	Hexagon	3, 4, 5, 6, 7, 8, 10, 12, 14, 17 mm	10	2017



Pocket Key Sets



Item	Profile	Size	pcs	Art. No.
Hexagon Pocket Key Set	Hexagon	2.5, 3, 4, 5, 6, 8, 10 mm	7	167
Pocket Key Set	TX-Star	T9, 10, 15, 20, 25, 27, 30, 40	8	1002

T-Handle Keys

BT-Handle Key Sets



- t-handle with 2-way blade
- with metal stand, suitable for wall fastening

Item	Profile	Size	pcs	Art. No.
Ball End T-Handle Key Set	Hexagon	2, 3, 4, 5, 6, 7, 8, 10 mm	8	1118/1
T-Handle Key Set	TX-Star	T10, 15, 20, 25, 27, 30, 40, 45, 50	9	1118/2

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	T10	360 mm	11183/10
T-Handle Key	TX-Star	T15	360 mm	11183/15
T-Handle Key	TX-Star	T20	360 mm	11183/20
T-Handle Key	TX-Star	T25	360 mm	11183/25
T-Handle Key	TX-Star	T27	360 mm	11183/27
T-Handle Key	TX-Star	T30	360 mm	11183/30

Item	Profile	Blade Length	Range	pcs	Art. No.
T-Handle Key Set	TX-Star	360 mm	T10-30	6	1118/3

Swivel Head T-Handle Keys, extra long



T-Handle Key hexagon		10x400 mm	2030/10	16x450 mm	2030/16
6x395 mm	2030/6	11x400 mm	2030/11	17x450 mm	2030/17
7x395 mm	2030/7	12x400 mm	2030/12	18x450 mm	2030/18
8x395 mm	2030/8	13x432 mm	2030/13	19x500 mm	2030/19
9x400 mm	2030/9	14x432 mm	2030/14		
		15x450 mm	2030/15		

T-Handle Key Set, 9 pcs.





Content T-Handle Key hexagon		7x230 mm	2020/7	11x230 mm	2020/11
6x230 mm	2020/6	8x230 mm	2020/8	12x230 mm	2020/12
		9x230 mm	2020/9	13x230 mm	2020/13
		10x230 mm	2020/10	14x230 mm	2020/14

Item	Art. No.
T-Handle Key Set	2025

General Pliers

Water Pump Pliers

- black finish, polished jaw and joint
- PVC dipped handles



Item	Length	Art. No.
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

- matt chrome plated, 2-component handle



Item	Length	Art. No.
Combination Pliers	180 mm	1185

Long Nose Pliers

- matt chrome plated, 2-component handle



Item	Length	Art. No.
Long Nose Pliers	160 mm	1175

Long Nose Pliers

- matt chrome plated, 2-component handle



Item	Length	Art. No.
Long Nose Pliers	200 mm	1176

Bent Nose Pliers

- matt chrome plated, 2-component handle



Item	Length	Art. No.
Bent Nose Pliers	200 mm	1180

Side Cutter

- matt chrome plated, 2-component handle



Item	Length	Art. No.
Side Cutter	160 mm	1170

Heavy-Duty Diagonal Cutter



- chrome plated, 2-component handle

Item	Length	Art. No.
Heavy-Duty Diagonal Cutter	250 mm	1172

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

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

Precision Plier Set, 4 pcs.



761, 762, 763



764, 765, 766

- supplied in high quality case, with spring

Content	Length	Art. No.
Side Cutter	110 mm	761
Round Nose Plier	120 mm	762
Long Nose Pliers	120 mm	763
Bent Nose Plier	120 mm	764

Item	Length	pcs	Art. No.
Precision Pliers Set	110-120 mm	4	760

accessory

Item	Art. No.
Flat Nose Plier, 120 mm	765
Top Cutter, 100 mm	766

Precision Pliers Set, 4 pcs.



751, 753



754, 755

- supplied in high quality case, extra long with spring

Content	Length	Art. No.
Side Cutter	145 mm	751
Long Nose Plier	160 mm	753
Bent Nose Plier	160 mm	754
Long Nose Plier	180 mm	755

Item	Length	pcs	Art. No.
Precision Pliers Set	145-180 mm	4	750

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
- ergonomic 2-component handles

Item	Length	Art. No.
Nut Riveter	320 mm	5762







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 Plier Set on Workshop Board, 12 pcs.

Content	Spread	Length	Art. No.
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 Plier 7R 7"	38 mm	175 mm	41004
Vise-Grip® Grip Plier 10R 10"	48 mm	250 mm	41005
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	250 mm	41009
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

Item	pcs	Art. No.
Vise-Grip® Grip Plier Set	12	41000



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 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	250 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	150 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 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® 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
Vise-Grip® Jaw Grip Plier 7LW 7"	11 - 19 mm	175 mm	41026



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



Specialist Grip Pliers

- 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, 16 pcs.

- specially designed for jobs on bodywork
- 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
- 1 long nose grip pliers, length 160 mm
- 1 long nose grip pliers, length 225 mm

Item	pcs	Art. No.
Grip Pliers Set	16	5800



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



Oil Filter Grip Wrench

- forged jaw, nickel plated

Item	Spread	Length	Art. No.
Oil Filter Grip Wrench	53 - 115 mm	230 mm	5710

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

Circlip Pliers



Circlip Plier 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



Bolt Cutters

CrV

- 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



Mini Bolt Cutter

CrV

- with lever transmission
- PVC-dipped handle

Item	Length	Art. No.
Mini Bolt Cutter	210 mm	72



Cable Cutter

CrMo

- for cables up to ø 16 mm

Item	Length	Art. No.
Cable Cutter	220 mm	71



Wire Rope and Spring Wire Cutter

CrMo

- 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





73



73/42



73/63

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

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



382



383

- for metal sheets max. 1.2 mm
- hardened, replaceable blade

Item	Length	Art. No.
Hand Nibbler	250 mm	382

accessory

Item	Art. No.
Spare Blade, for Hand Nibbler No. 382	383

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

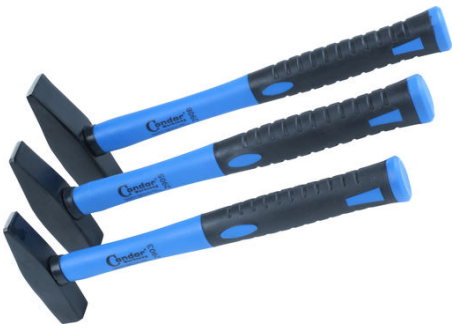
Machinist Hammers, with fibreglass shaft



- 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

Sledge Hammer, hickory handle, 4.5 kg



Item	Length	Head Weight	Art. No.
Sledge Hammer	900 mm	4.5 kg	2950

Panel Beating Hammers



- with ball-shaped head

Item	Head Weight	Art. No.
Panel Beating Hammer	340 g	10034
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



Rubber Mallets

Item	Head-Ø	Art. No.
Rubber Mallet	50 mm	58/50



Roofing Hammer

- tubular steel shaft with rubber grip

Item	Head Weight	Art. No.
Roofing Hammer	600 g	1162GS

Striking Tools, miscellaneous



Automatic Center Punch

- impact force adjustable by turning black handle

Item	Description	Art. No.
Automatic Center Punch	striking force 15-25 kg	223



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



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

Hollow Punch Sets

Item	Ø	pcs	Art. No.
Hollow Punch Set	2.5, 3, 4, 5, 6, 7, 8, 9, 10 mm	9	80
Hollow Punch Set, in pouch	3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 16 mm	12	80/12
Hollow Punch Set, in pouch	3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 16, 19, 22, 25 mm	15	80/15



80



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



Chisel And Punch Set, 15 pcs.

- interchangeable inserts, e.g. for mortising jobs, chrome-vanadium-steel
- 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



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	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	75 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	75 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 Holder, 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	75 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	75 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	75 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	75 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



115

Nut Splitter

Item	Spread	pcs	Art. No.
Nut Splitter	10 - 24 mm		115
Nut Splitter Set	6 - 24 mm	2	116



115EX



5513

Nut Splitter, open type

- 360° rotatable splitting pin
- forged

Item	Spread	Art. No.
Nut Splitter	4.5 - 25 mm	115EX
Hydraulic Nut Splitter, 5 t	7 - 22 mm	5513



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, 12 t, inner/outer, 2/3 arms	5518
Press Frame for Silent Blocks, BMW E36	5510
Hydraulic Puller Set, universal, 10t	5515

Tap and Die

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 0.70, 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 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

Dies



- DIN 223, in plastic box

Item	Size	Material	Art. No.
Die	M3 x 0.5	HSS	156/3
Die	M4 x 0.7	HSS	156/4
Die	M5 x 0.8	HSS	156/5
Die	M6 x 1.0	HSS	156/6
Die	M8 x 1.25	HSS	156/8
Die	M10 x 1.5	HSS	156/10
Die	M12 x 1.75	HSS	156/12

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

Hand Tap Sets, 3 pcs.



- DIN 352, in plastic box

Item	Size	Material	pcs	Art. No.
Hand Tap Set	M3 x 0.5	HSSG	3	155/3
Hand Tap Set	M4 x 0.7	HSSG	3	155/4
Hand Tap Set	M5 x 0.8	HSSG	3	155/5
Hand Tap Set	M6 x 1.0	HSSG	3	155/6
Hand Tap Set	M8 x 1.25	HSSG	3	155/8
Hand Tap Set	M10 x 1.5	HSSG	3	155/10
Hand Tap Set	M12 x 1.75	HSSG	3	155/12

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

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

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

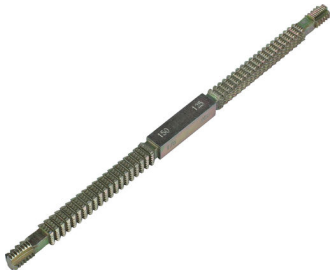
Thread Inserts



- 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

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 11, 12, 14, 16, 18, 20, 24	230 mm	4835



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



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



Screw Extractor Set, 6 pcs.

- in plastic case, chrome-vanadium-steel

Item	Size	pcs	Art. No.
Screw Extractor Set	M3 - M24	6	176B

Drills



Step Drill Set, 3 pcs.

- 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



HSS Twist Drill Set, titanium coated, 170 pcs.

- titanium coated for minimum wear
- manufactured according to DIN 338, edges ground
- 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, cobalt alloy, 170 pcs.

- 5% cobalt alloy material for max. durability
- fully ground, manufactured according to DIN 338
- ideal for difficult to machine materials, e.g. V2A, V4A, steel, cast iron
- with split point according to DIN 1412C, tip angle 135°
- 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



HSS Twist Drill Set, 170 pcs.

- roll forged, edge ground, DIN 338
- 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



HSS Twist Drill Set, cobalt alloy, 19 pcs.

- 5% cobalt alloy material for max. durability
- fully ground, manufactured according to DIN 338
- ideal for difficult to machine materials, e.g. V2A, V4A, steel, cast iron
- with split point according to DIN 1412C, tip angle 135°
- each size 1 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, 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



HSS Twist Drill Set, 19 pcs.

- titanium coated, cylindric, right cut

Item	Size	pcs	Art. No.
HSS Twist Drill Set	1 - 10 mm (sizes increasing by 0.5 mm)	19	459



HSS Twist Drill Sets

- cylindric, right cut

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 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

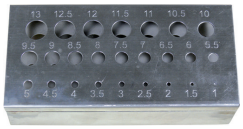
Auger Bit Sets, 6 pcs.



- form lewis
- hexagon shank
- spur tips
- supplied in wooden case

Item	Size	Length	pcs	Art. No.
Auger Bit Set	6, 8, 10, 12, 16, 20 mm	230 mm	6	441
Auger Bit Set	10, 12, 14, 16, 18, 20 mm	460 mm	6	442

Drill Stand



- suitable for wall fastening

Item	Application	Art. No.
Drill Stand	drills 1 - 13 mm (in 0.5 mm steps)	421

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

Chuck Keys, 2 pcs.



Item	Application	pcs	Art. No.
Chuck Keys	chuck 10 + 13 mm	2	108

Cutters

Router Bit Sets



- supplied in wooden case
- 8 mm shank
- tungsten-tipped heads
- ball-bearing cone

Item	Description	pcs	Art. No.
Router Bit Set	5 router bits	5	436
Router Bit Set	12 router bits	12	437

Hinge Hole Cutter Set, 5 pcs.



- supplied in wooden case
- with centering pin
- ground
- reduced shaft
- shaft ø 8mm (for sizes 15, 20, 25, 30 mm)
- shaft ø 10 mm (for size 35 mm)

Item	Ø	Length	pcs	Art. No.
Hinge Hole Cutter Set	15, 20, 25, 30, 35 mm	90 mm	5	438

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

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

Mini Drill Kit, 202 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	202	445

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



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



Deburring Tool

- for internal and external, plastic body

Item	for Ø	Art. No.
Deburring Tool	4 - 42 mm	1285



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



Mini Pipe Cutters

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



360



364



366



340A

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





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

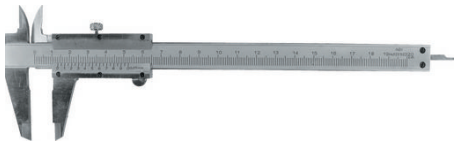
Digital Caliper, stainless steel



- 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

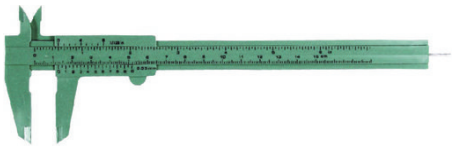
Caliper



- 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



Measuring Tapes

- blade made from hardened steel, self retracting, locking mechanism

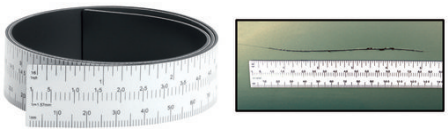
Item	Length	Art. No.
Measuring Tape	5 m	228/5



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



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

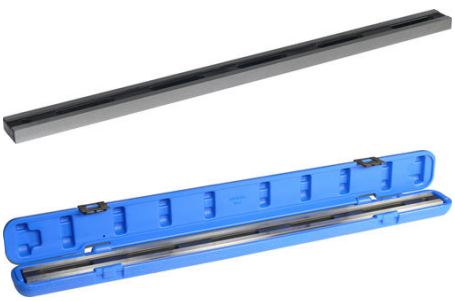
Item	Measuring Range	Quantity	Art. No.
Screwpitch Gauge	0.25 - 6 mm	24 blades	184
Screwpitch Gauge	0.25 - 6 mm (24 blades), Whitworth 4 - 61 (28 blades)	52 blades	185



Precision Straight Edge, 610 mm

- for checking plane surface e.g. on cylinder heads and engine blocks
- for cylinder heads with max. 6 cylinders
- with hanging hole

Item	Length	Width	Thickness	Art. No.
Precision Straight Edge	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

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	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" 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	1/4"	6-30 Nm	0.2 Nm	24	295 mm	+/- 4%	95/00
Torque Wrench	3/8"	6-30 Nm	0.2 Nm	24	295 mm	+/- 4%	95/0
Torque Wrench	3/8"	19-110 Nm	0.5 Nm	24	380 mm	+/- 4%	95/1
Torque Wrench	1/2"	40-210 Nm	1.0 Nm	24	540 mm	+/- 4%	95/2
Torque Wrench	1/2"	70-350 Nm	2.5 Nm	24	648 mm	+/- 4%	95/3
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 Wrenches

1/4" 3/8" 1/2" 24 45

- 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	1/4"	5-25 Nm	0.1 Nm	24	280 mm	+/- 4%	96/00
Torque Wrench	3/8"	5-25 Nm	0.1 Nm	24	280 mm	+/- 4%	96/0
Torque Wrench	3/8"	14-110 Nm	0.1 Nm	45	275 mm		96/1
Torque Wrench	1/2"	30-210 Nm	1.0 Nm	24	465 mm	+/- 4%	96/2



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, 8122/4, 8133/3	8122-12
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. 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



96-140, 96-380, 96-122



96-381

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

¼" Torque Wrench



- 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

½" Digital Torque Adapter



- 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

½" ¾"

- 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

½"

- 0 - 360° angular scale
- with angular arm and set screw



Item	Drive	Art. No.
Torque Angle Gauge	1/2"	98

Torque Angle Gauge

½"

- with magnetic arm
- high accuracy



Item	Drive	Measuring Range	Art. No.
Torque Angle Gauge	1/2"	max. 280 Nm	99/1

Torque Wrench

½"

- 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

¼"

- for assembling the special sensors and tire valves
- for systems from Siemens VDO, Beru, Schrader etc.
- torque wrench with audible click when torque is reached, quick adjust and lock system, including certificate
- sockets for cap nut on tire valve, socket bits for safety screw



Content	Drive	Measuring Range	Length	Profile	Size	Art. No.
Torque Wrench	1/4"	2 - 10 Nm	165 mm			8210
T-Handle	1/4"		70 mm			*8200-TG*
Socket Bit	1/4"		37 mm	TX-Star	T20	14033/20
Socket	1/4"		tief	hexagon	11 mm	21299/11
Socket	1/4"		tief	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*

Item	Art. No.
Tire Pressure Monitoring System Service Kit	8200

Torque Valve Screw Tool

- prevents overtightening when assembling valve inserts
- audible click when torque is reached



8225



8245

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, 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

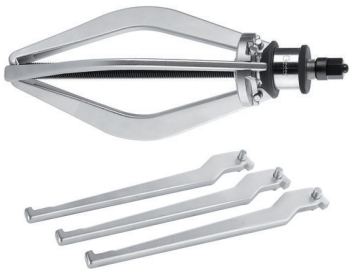


Universal Puller Set, 12 pcs.

- 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, 3 pcs.



- reversible for internal and external, drop forged, chrome plated

Content	Throat Depth	Description	Art. No.
Reversible 2-legged Puller	100 mm	2 arms	141/100
Reversible 3-legged Puller	100 mm	3 arms	142/100
Reversible 3-legged Puller	150 mm	3 arms	142/150

Item	pcs	Art. No.
Puller Set	3	142/3

2-Arm and 3-Arm Pullers



- reversible for internal and external, drop forged, chrome plated

Item	Throat Depth	Description	Art. No.
Reversible 2-legged Puller	75 mm	2 arms	141/75
Reversible 2-legged Puller	100 mm	2 arms	141/100
Reversible 2-legged Puller	150 mm	2 arms	141/150
Reversible 2-legged Puller	200 mm	2 arms	141/200
Reversible 3-legged Puller	75 mm	3 arms	142/75
Reversible 3-legged Puller	100 mm	3 arms	142/100
Reversible 3-legged Puller	150 mm	3 arms	142/150
Reversible 3-legged Puller	200 mm	3 arms	142/200

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, 12 t



- 2-arm and 3-arm application, for internal and external
- reach max. 200 mm, spread max. 200 mm
- solid arms made from specialist steel
- easy conversion from 2 to 3 arms and from internal to external
- clamping nut prevents slipping off workpiece
- thread UN 1.1/2" x 16

Content	Description	Art. No.
Yoke and Puller Arms	with clamp nut and fastener	5518/AZ
Hydraulic Spindle	max. 12 t	5501
Spindle Extension	10 - 30 mm, 2 pcs.	*5518-SV*

Item	Art. No.
Hydraulic Puller, 12 t	5518

accessory



5502

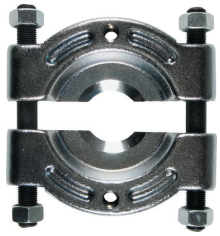
Item	Art. No.
Impact Spindle, thread UN1.1/2"x16	5502

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



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



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



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

Mini Impact Wrench



- compact design, head length only 12 cm
- high performance jumbo hammer
- connecting thread 1/4"
- noise level 98 db(A)
- weight 1.55 kg
- 3 power levels in forward drive
- torque after 5 seconds: 678 Nm

Item	Torque max.	Speed	Air Consumption	Drive	Weight	Art. No.
Mini Impact Wrench	1248 Nm	10000 rpm	133 l/min	1/2"	1.55 kg	8835

Impact Wrench



- high performance twin hammer
- bolt size M19
- connecting thread 1/4"
- noise level 93 db(A)
- weight 2.1 kg
- 3 power levels in forward drive
- torque after 5 seconds: 949 Nm

Item	Torque max.	Speed	Air Consumption	Drive	Weight	Art. No.
Impact Wrench	1493 Nm	8000 rpm	124 l/min	1/2"	2.1 kg	8830

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	Art. No.
Cutting Wheel	15300 rpm	100 mm	8799

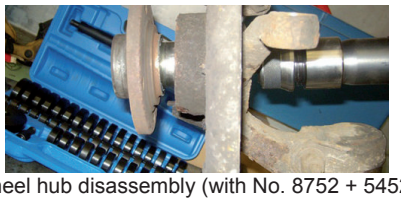




clamp bolt removal (with No. 8751)



track rod end removal (with No. 8760)



wheel hub disassembly (with No. 8752 + 5452)

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

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

Chisel Set, 5 pcs.



- suitable for all common air hammers, e.g. Condor item number 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

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

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 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	Art. No.
Air Spot Drill	1600 rpm	170 l/min	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



8770



8771

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 Ratchet

- reversible left / right
- plug-in nozzle for quick coupler



Item	Torque max.	Speed	Drive	Art. No.
Air Ratchet	70 Nm	160 rpm	1/2"	8010



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



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	Art. No.
Air Duster	330 l/min	8890



Air Hose with Automatic Reel, 15 m

- with automatic reel stop
- pull hose to unlock
- 180° swivel bracket holder, suitable for wall mounting
- hose material: PVC mesh
- connecting hose length: 1 m
- air inlet: 1/4" (incl. quick coupler)
- working pressure: max. 20 bar (300 psi)

Item	Length	Inner-Ø	Outer-Ø	Art. No.
Air Hose Reel	15 m	12 mm	18 mm	8020



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	Description	Art. No.
Air Quick Coupler	connection: 1/4" internal thread	8050
Air Quick Coupler	connection: 1/4" external thread	8051
Air Quick Coupler	connection: 10 mm hose	8052
Air Quick Coupler	connection: 12 mm hose	8053



Mini Oiler

- for automatic oiling
- to be connected between pneumatic tool and coupler

Item	Description	Art. No.
Mini Oiler	refillable	8060



Magnetic Holder for Impact Wrench

- with 2 extra strong magnets, easy mounting to lifting platforms and other metal surfaces
- holding devices for:
  1 impact wrench, 1 torque wrench, 4 wheel nut sockets

Item	Description	Art. No.
Magnetic Holder for Impact Wrench	max. weight 15 kg	8100/1
Magnetic Holder for Impact Wrench	max. weight 25 kg	8100

Timing Tools

Timing Tool Set, Audi / VW

- for 1.0, 1.2 und 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

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



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 Tool Set, Audi / VW

- for 1.0, 1.2 und 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
- with storage space for locking tool No. 6615
- 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 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



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

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



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



for engine codes:
CPTA, CZEA

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

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



for engine codes:
CHYA, CHYB, CPGA

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

recommended accessory

Item	Art. No.
Timing Belt Tensioner Wrench, Audi / VW, 30 mm	6605



for engine codes:
BYT, BZB, CABA, CABB, CABD, CAEA, CAEB, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA, CJEB, CJSA, CJSB, CJXC, CPSA, CWZA

Timing Tool Set, Audi / VW

- for 1.8 and 2.0L TFSI and TSI engines (Gen. III) with twin camshafts and turbocharger
- in Audi A3, A4, A5, A6, Q3, Q5 and TT
- in VW Beetle II, Eos, Golf VI + VII, Jetta III + IV, Passat, Scirocco III, Tiguan, T5 and T6
- in Seat Alhambra, Altea, Exeo, Leon and Toledo
- in Skoda Octavia II, Superb II 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

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
- VW: Beetle (B4/5C7), Golf, Jetta III+IV, Passat (3C5/CC), Scirocco, Sharan, Tiguan
- Audi: A3 (8P7), A4 (8K2/8K5), A5 (8T3), Q5, TT (8J3)
- Skoda: Octavia (1Z3/1Z5), Superb II, Yeti
- 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	pcs	Art. No.
Central Valve Sockets, Audi/VW, 3 pcs.	3	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 Audi 2.4 and 3.2 L FSI engines
- in Audi A4 and A6 (series A4-B7 and A6-C6)
- for locking the camshafts and crankshaft
- for locking the tensioner arrangement
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	T40070	*6632-01*
Chain Tensioner Locking Pin	T40071	*6632-02*
Crankshaft Locking Pin	T40069	*6632-03*
Crankshaft Rotation Adapter	T40058	*6632-04*

Item	Art. No.
Timing Tool Set, Audi 2.4/3.2 FSI V6	6632



for engine codes:
AUK, BDW

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



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 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:
AWY, AZQ, BBM, BMD, BME, BXV, BZG, CBZA, CBZB, CBZC, CEVA, CGPA, CGPB, CGPC, CHFA, CHFB

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, 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

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:
CBZA, CBZB, CBZC

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:
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 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:
ASN, AVK, BBJ



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



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 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:
AAH, ABC, ACZ, AEJ, AFC, AFM

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:
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 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:
AAA, ABV, AES, AGZ, AMY, AZX

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:
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, 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

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	*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	*6609-01*
Locking Pins	T10492	*6609-02*

Item	Art. No.
Timing Tool Set, Audi / VW	36610SP



for engine codes:
CAAA, CAAB, CAAC, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CEGA, CFFB, CFGC, CFHC, CFHF, CFJA, CFWA, CGLA, CGLB, CGLC, CJAA, CJCA, CJCB, CKFB, CKFC, CLHA, CLHB, CNHA, CNHC, CRBC, CRBD, CRFA, CRKA, CRKB, 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, CZDA, CZJA, DBKA, DCXA, DDAA, DEUA, DEUB, DFLA, DFLD, DFMA, DFSA, DFSB

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	*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:
CAAA, CAAB, CAAC, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CEGA, CFFB, CFGC, CFHC, CFHF, CFJA, CFWA, CGLA, CGLB, CGLC, CJAA, CJCA, CJCB



for engine codes:
CKFB, CKFC, CLHA, CLHB, CNHA, CNHC, CRBC, CRBD, CRFA, CRKA, CRKB, 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, CZDA, CZJA, DBKA, DCXA, DDAA, DEUA, DEUB, DFLA, DFLD, DFMA, DFSA, DFSB

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	*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:
CKFB, CKFC, CLHA, CLHB, CNHA, CNHC, CRBC, CRBD, CRFA, CRKA, CRKB, 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, CZDA, CZJA, DBKA, DCXA, DDAA, DEUA, DEUB, DFLA, DFLD, DFMA, DFSA, DFSB

Accessory Timing Tool Set, Audi / VW new TDI CR-engines

- accessory set for items No. 6610 and 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.	pcs	Art. No.
Crankshaft Locking Tool with Pin	T10490	2	*6609-01*
Locking Pins	T10492	2	*6609-02*

Item	Art. No.
Timing Tool Set, Audi / VW	6608



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

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

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

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

Water Pump Tool, Audi / VW

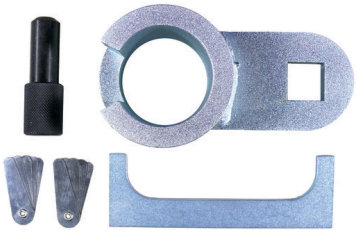
- for 2.5 L TDI pump-injector diesel engine with 5 cylinders
- in Volkswagen T5 and Touareg 7L
- for turning the engine to top dead center of the first cylinder
- for pulling the water pump sprocket
- for removing the water pump

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



for engine codes:
AAB, AJA

Timing Tool Set, Audi / VW

- for 2.4 L diesel engines
- in VW Transporter T4 + T5 and VW Mulivan T5
- for timing belt replacement or engine repair

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*

Item	Art. No.
Timing Tool Set, Audi / VW 2.4 diesel	4281



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 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
- passend für 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	*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:
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
- passend für 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

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

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	*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

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

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

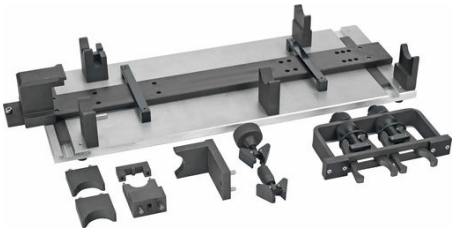


Crankshaft Seal Installer Tool, Audi / VW

- 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 Pannamera
- 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	T40094/1	*6690-01*
Camshaft Holder	T40094/2	*6690-02*
Camshaft Locking Holder	T40094/3	*6690-03*
Camshaft Holder	T40094/4	*6690-04*
Camshaft Holder	T40094/5	*6690-05*
Camshaft Locking Holder	T40094/6	*6690-06*
Camshaft Holder	T40094/7	*6690-07*
Camshaft Locking Holder	T40094/8	*6690-08*
Camshaft Holder	T40094/9	*6690-09*
Camshaft Holder	T40094/10	*6690-10*
Camshaft Locking Holder	T40094/11	*6690-11*
Camshaft Gear Teeth Tensioner	T40096	*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

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

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

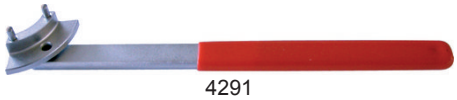
for engine codes:
AAH, ABC, ACZ, AEJ, AFC, AGA, AJG, ALF, ALW, AML, AMM, APC, APS, APZ, ARJ, ARN, ASM, BDV, AGB, AJK, ASJ, ARE, AZA, AZB, AZR, BES, ACK, AGE, ALG, AMX, APR, AQD, ATX, BBGAFM, ABZ, AKC, ANK, AQF, AQG, AQJ, ARS, ARU, ASG, AUW, AVN, AWN, AXQ, BFL, BGH, BGJ, BHX

Item	OEM Comparison No.	Art. No.
Crankshaft Locking Pin	3242 / T40237	6634

Timing Belt Tensioner Wrench, Audi / VW



4290



4291

- 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	5488



for engine codes:
M4800, M4850, M4850S, M4850T

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 and 4.5L Turbo S
- in Porsche 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:
M9603, M9603S, M960, M9623, M9626, M9701, M9701S, M9721

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.
Timing Chain Tensioner	96831 / 00072196831	*6931-01*
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:
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, 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

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



for engine codes:
N43

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



for engine codes:
N40B16, N45B16, N45TB16

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*
Camshaft Locking Tool, inlet	117252	*6118-04*
Connection Screw	117253	*6118-06*
Camshaft Rotation Wrench	119270	*6115-11*

Item	Art. No.
Timing Tool Set, BMW	36118



for engine codes:
M60, M62

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 Sensor Locking Tool, right	116452 / LRT 12-228/1	*6162-04*
Camshaft Sensor 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 Tensioning Device Locking Tool	113310 / LRT 12-220	*6162-13*

Item	Art. No.
Timing Tool Set, BMW M60/62	6162

Timing Tool Set, BMW

- for 2.3, 2.5, 2.8 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, F01, F10, F11 and F25
- 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*
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	6154



for engine codes:
N51, N52, N53, N53K, N54

Timing Tool Set, BMW

- for V6 petrol engines with variable camshaft settings
- in BMW 3-series, 5-series, 7-series, X3, X5, Z3 and Z4
- models E46, E39, E60, E61, E38, E65, E66, E83, E53 and E85
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Assembly Guide for Double Vanos	116180	*6110-01*
Camshaft Locking Tool	116150	*6110-02*
Vanos Wrench	115490	*6110-03*
Vanos Air Adapter	113450	*6110-04*
Chain Tensioner Locking Pin	113292	*6110-05*
Chain Tensioner Locking Pin	113291	*6110-06*
Timing Chain Tensioner	113390 / 114220	*6110-07*

Item	Art. No.
Timing Tool Set, BMW M50/52/52TU/54/56	6110

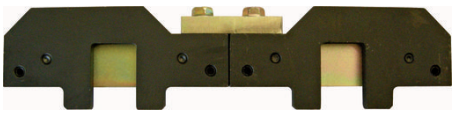


for engine codes:
M52TU, M50, M52, M54, M56

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

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for engine codes:
N47, N47S, N47T, N57

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*

Item	Art. No.
Timing Tool Set, BMW / Mini	36120

accessory

Item	Art. No.
Crankshaft Counter Holder, BMW N47 / N57	6121



for engine codes:
N47, N47S, N57

Crankshaft Counter Holder, BMW N47 / N57

- for 1.6, 2.0 and 3.0L 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

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:
M47, M47TU, M57, M57TU

Injection Pump Tool, BMW

- to separate the chain sprocket from injection pump

Item	OEM Comparison No.	Art. No.
Injection Pump Tool	135190 / LRT12178	3517

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

accessory

Item	Art. No.
Dial Gauge, DIN 878, ø 42 mm, 8 mm shaft, H6	1381



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, 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:
N12, N14, N16, 5FR, 5FW, 5FX, 8FP, 8FR, 8FS, EP3, EP3C, EP6, EP6C, EP6DT, EP6CDT, EP6DTE, EP6DTS

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*
Flywheel Locking Pin (automatic transmission)	2299362	*6116-03*

Item	Art. No.
Timing Tool Set, BMW / Mini	36116



for engine codes:
N13, N18



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



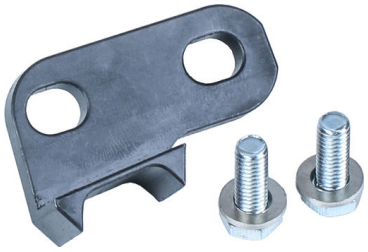
for engine codes:
W16D16, W16D16UO, DV4TD, DV4TED4, DV6TED4, DV6ATED4, 9HZ, 9HX, 9HY, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, GPDA, GPDB, GPDC, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MTDA, TZJB, UBJA, Y6, 8HY, 1KRFE, 2WZTV, 1NDTV, D4164T

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, W16D16U0

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

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, 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 Tool	303393 (-A -1 -2 -3) / 3031602 / 21168 / 9997119	6220
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*

Item	Art. No.
Timing Tool Set, Ford / Mazda / Volvo	36205



for engine codes:
ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, ASDA, ASDB, AZBA, AZBC, AZWA, B4164S2, B4164S3, B4164T, B4164T2, B4164T3, BHDA, BHDB, BHPA, BP, C9DA, C9DB, C9DC, CDBB, CDBC, CDRA, CDRB, CGBA, CGBB, CHBA, CHBB, CJBA, CJBB, CSDA, CSDB, D4162T, D4164T, D4204T, D4204T2, DHA, DHB, DHC, DHD, DHE, DHF, DHG, E5FA, E5FC, E5SA, E5SB, EDBA, EDBB, EDBC, EDBD, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F6JA, F6JB, F6JC, F6JD, F8JA, F8JB, F9DA, F9DB, F9DA8, FE, FFBA, FFDA, FFWA, FHA, FHD, FHE, FHF, FP, FS, FUJA, FUJB, FXDA, FXDB, FXDC, FXDD, FXJA, FXJB, FXJC, FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, FYJC, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, G8DA, G8DB, G8DD, GPDA, GZ, GZFA, GZFB, GZFC, HCPA, HCPB, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, HMDA, HWDA, HWDB, HXDA, HXJA, HXJB, IQDA, IQDB, IXDA, JQDA, JQDB, JTBA, JTBB, KGBA, KHBA, KKDA, KKDB, KL, KLBA, KNBA, L1F, L1J, L1L, L1N, L1O, L1T, L1V, L1W, L3, L5, L8, LF, LPBA, M7JA, M7JB, MHA, MHB, MZR, N4JB, NGA, NGB, NGC, NGD, P7PA, P9PA, P9PB, PNBA, PNDA, Q4BA, Q7DA, QQDA, QQDB, QQDC, QXBA, QXBB, QXWA, QXWB, QYBA, QYWA, R2PA, R3PA, RHBA, RKA, RKB, RKF, RKH, RKJ, RKK, RTJA, RTJB, RTN, RTO, RTP, RWPA, RWPC, SEBA, SEWA, SHDA, SHDB, SHDC, SIDA, SNJA, SNJB, SPJA, SPJC, STJA, STJB, SYDA, T1BA, T1BB, T1BC, T1DA, T1DB, TBBA, TBBB, TBWA, TBWB, TNBA, TXBA, TXDA, TXDB, TXWA, TYBA, TYDA, TYWA, TZJA, UEJB, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA, UTJA, YF, ZVSA

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



for engine codes:
ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, ASDA, ASDB, B4164S2, B4164S3, B4164T, B4164T2, B4164T3, CDRA, CDRB, CGBA, CGBB, CJBA, CJBB, CSDA, CSDB, E5FA, E5FC, E5SA, E5SB, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FUJA, FUJB, FXDA, FXDB, FXDC, FXDD, FXJA, FXJB, FXJC, FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, FYJC, GZFA, GZFB, GZFC, HMDA, HWDA, HWDB, HXDA, HXJA, HXJB, IQDA, IQDB, JQDB, JTBB, JTDB, JQDA, JTBA, JTDA, KGBA, KL, L3, L5, L8, LF, M7JA, M7JB, MZR, N4JB, PNBA, PNDA, Q7DA, QQDA, QQDB, QQDC, RHBA, RTJA, RTJB, SEBA, SEWA, SHDA, SHDB, SHDC, SIDA, SNJA, SNJB, SPJA, SPJC, STJA, STJB, SYDA, TBBA, TBBB, TBWA, TBWB, TNBA, UTJA, ZVSA

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

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for engine codes:
B4164T, B4164T2, B4164T3, B4164T4, G6DA, G6DB, G6DC, HXDA, IQDA, IQDB, IQJA, JQDA, JQDB, JTDA, JTDB, JTWA, JTWB

Timing Tool Set, Ford / Volvo

- for 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



for engine codes:
MGDA, R9DA, TNBA, TNBB, TNWA, TNWB, TPBA, TPWA, XQDA

Timing Tool Set, Ford

- for 2.0L SCTI Ecoboost and SCTi-VCT petrol engines
- in Ford Galaxy, Mondeo, S-Max and Focus (2010-2013)
- 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

Timing Tool Set, Ford

- for 1.0 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 Locking Tool	303393 (-A -1 -2 -3) / 3031602 / 21168 / 9997119	6220
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, 8 mm		*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



for engine codes:
M1CA, M1CB, M1DA, M1DD, M1JA, M1JC, M1JE, M1JH, M1JJ, M2DA, M2DB, M2DC, M2GA, M2GB, P4JA, P4JB, P4JC, P4JD, SFCA, SFCB, SFCC, SFCD, SFDB, SFJA, SFJB, SFJC, SFJD, XMJA, XMJB, XMJC, XMJD, YYJA, YYJB

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, CYF5, CYFA, CYFB, CYFC, CYFF, CYFG, DRF5, DRFA, DRFB, DRFC, DRFF, DRFG, GBVAJ, GBVAJPF, GBVAJQJ, P8FA, P8FB, PGFA, PGFB, QVFA, QWFA, SAFA, SAFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA

Timing Tool Set, Ford

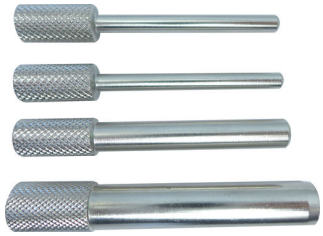
- for 2.0 and 2.4 L 16V diesel engines
- in Ford Mondeo and Transit
- for locking the belt tensioner, camshaft and crankshaft
- for disassembly / assembly of the injection pump
- for timing belt replacement or engine repair

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 2.0/2.4 16V diesel	6224



for engine codes:
FMBA, FMBB, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA



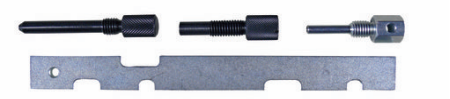
for engine codes:
F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, GPDA, GPDB, GPDC, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MTDA, TZJB, UBJA, DV4TD, DV4TED4, DV6TED4, DV6ATED4, Y6, 8HY, 1KRFE, 2WZTV, 1NDTV, D4164T

Timing Tool Set, Ford / PSA

- also for identically constructed engines from Mazda, Suzuki, Toyota and Volvo
- for Ford and PSA 1.4 and 1.6L TDCi / HDi diesel engines
- in Ford B-Max, C-Max, Fiesta, Focus, Fusion, Mondeo, Tourneo Courier and Transit Courier
- in Citroen C1, C2, C3, C4, C5, Berlingo and Xsara
- in Peugeot 107, 206, 207, 307, 308, 407 and 1007
- 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.
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

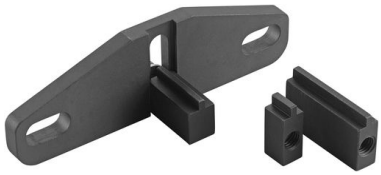


Timing Tool Set, Ford

- 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*

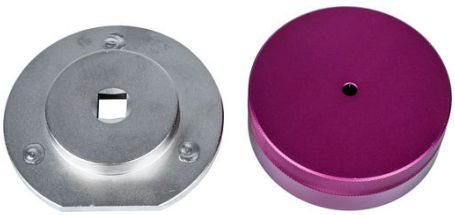
Item	Art. No.
Timing Tool Set, Ford	3514



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	6220



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

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, 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 / 1860905000 / 2000003000 / 32023009	*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	1860898000 / 1820630000	*3526-15*
Camshaft Locking Pins	EN46781 / 1860985000 / 1871000900 / 3031472 / 0991768610	*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 / EM6349	*6316-06*
Tensioner Locking Pin	KM6130 / EN9552	*6300-09*
Injection Pump Locking Pin	KM927 / 8395337	*6300-16*
Camshaft Locking Pin	EN46789 / 1870896900 / 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, 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



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 / 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 / EM6349	*6316-06*

Item	Art. No.
Timing Tool Set, Opel / Fiat	36316



for engine codes:
A10XEP, A12XEL, A12XER, A14NEL, A14NET, A14XEL, A14XER, A14XFL, LUH, LUU, LUJ, L2Z, LDD, LWD

Timing Tool Set, Opel

- for 1.0, 1.2 and 1.4 L twin camshaft petrol engines with turbo charger
- in Opel Adam, Astra J, Agila-B, Cascada, Combo, Corsa D, Meriva B, Mokka, Zafira Tourer
- in Chevrolet Cruze
- 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	KM955A2	*6308-05*
Tensioner Locking Pin 4.0 mm	KM955A1	*6308-06*
Camshaft Sensor Locking Tool	EN49978	*6308-07*

Item	Art. No.
Timing Tool Set, Opel	6308



for engine codes:
Z22SE, Z22YH

Timing Tool Set, Opel

- 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
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	KM6148	*6311-01*
Crankshaft Counter Holder	KMJ38122A / KM9561	*6311-02*
Chain Tensioner Locking Pin	KM6077	*6311-03*
Water Pump Locking Tool	KMJ43651	*6311-04*
Fixing Screws		*6311-05*

Item	Art. No.
Timing Tool Set, Opel 2.2 16V petrol	6311

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, Z14XEP

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:
X20DTL, X20DTH, X22DTH, Y20DTL, Y22DTR, Y22DTH, D223L

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 Pin	EN46789 / 1870896900 / 32025008	*6300-06*
Crankshaft Locking Tool	EN46788 / 1860905000 / 2000003000 / 32023009	*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

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



for engine codes:
Z20DM, Z20DMH, A20DTJ, Z20S, RA420



for engine codes:
Z13DT, Z13DTH, Z13DTJ

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	*6300-10*
Tensioner Locking Pin	KM955 / EM955 / 0991958320	*6300-08*

Item	Art. No.
Timing Tool Set, Opel 1.3 CDTi	6305



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, 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	*3526-16*
Camshaft Locking Rule	2000004400 / 2190754400 / 3031479	*6400-05*
Crankshaft Locking Tool	2000004500 / 2190754500 / 3031480	*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, 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	*3526-16*
Camshaft Locking Rule	2000004400 / 2190754400 / 3031479	*6400-05*
Crankshaft Locking Tool	2000004500 / 2190754500 / 3031480	*6400-03*
Camshaft Sprocket Locking Tool	2000004200 / 2190754200 / 3031477	*6400-01*

Item	Art. No.
Timing Tool Set, Fiat FIRE EVO2	36400

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



6401



6402

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:
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, 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

13



for engine codes:
169A3000, 179B9000, 182B2000, 188A5000, 192B2000, 198A1000, 198A4000, 199A6000, 199A8000, 843A1000

Timing Tool Set, Fiat

- also for identically constructed engines from Alfa Romeo and Lancia
- for 1.2 and 1.4 L 16V petrol engines
- in Fiat Bravo (1+2), Brava, Punto, Grande Punto, Idea, Marea, Linea, Palio Weekend, Panda, Stilo and New 500
- in Alfa Romeo Giulietta and MiTo
- in Lancia Delta, Musa and Ypsilon
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Top Dead Center Locater	1860332000	*3526-09*
Camshaft Locking Pins	EN46781 / 1860985000 / 1871000900 / 3031472 / 0991768610	*6300-10*
Tensioner Pulley Wrench	1860987000 / 3031560	*3526-16*
Crankshaft Locking Tool	2000004500	*6412-04*
Crankshaft Locking Tool	2000015800	*6412-05*

Item	Art. No.
Timing Tool Set, Alfa/Fiat 1.2/1.4 16V petrol	6412



for engine codes:
182A3000, 182A5000, 840A2000, 840A4000

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.	pcs	Art. No.
Camshaft Locking Tool	1860899000		*6414-01*
Camshaft Locking Tool	1860901000	3	*6414-02*

Item	Art. No.
Timing Tool Set, Fiat 1.4 12V petrol	6414



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

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 Pin	EN46789 / 1870896900 / 32025008	*6300-06*
Crankshaft Locking Tool	EN46788 / 1860905000 / 2000003000 / 32023009	*6300-07*
Tensioner Locking Pin	KM6130 / EN9552	*6300-09*
Flywheel Locking Tool	1860898000 / 1820630000	*3526-15*

Item	Art. No.
Timing Tool Set, Alfa / Fiat	36309SP

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*
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, F1AFL411A, F1AFL411B, F1AFL411C, F1CE0114A, F1CE0441A, F1CE0441F, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481FA, F1CE0481FB, F1CE0481H, F1CE0481HA, F1CE0481HB, F1CE34818, F1CE3481C, F1CE3481CC, F1CE3481D, F1CE3481E, F1CE3481J, F1CE3481K, F1CE3481LC, F1CE3481M, F1CE3481N, F1CFA401A, F1CFL411E, F1CFL411F, F1CFL411G, F1CFL411H, F1CFL411J, 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



for engine codes:
169A1000, 188A8000, 188A9000, 199A3000, Z13DT, Z13DTH, Z13DTJ, FD4

Timing Tool Set, Fiat + Ford Ka II

- also for identically constructed engines from Lancia, Opel and Suzuki
- for 1.3 L diesel engines
- in Fiat Punto, Panda, Idea, Doblo and New 500
- in Ford Ka with 1.3 L Duratorq diesel
- in Lancia Ypsilon and Musa
- in Opel Agila, Corsa C and D,Combo C, Astra H, Tigra B and Meriva
- in Suzuki Swift, Wagon and Ingis
- for timing belt replacement or engine repair

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	*6300-10*
Crankshaft Locking Tool	1870900300 / 3031468	*6413-04*
Tensioning Tool	1870900400 / 3031469	*6413-05*
Fixing Screws		*6413-06*
Crankshaft Flange Holding Wrench	KM662C / 1871000200	*6413-07*

Item	Art. No.
Timing Tool Set, Fiat/Opel/Ford 1.3 diesel	6413



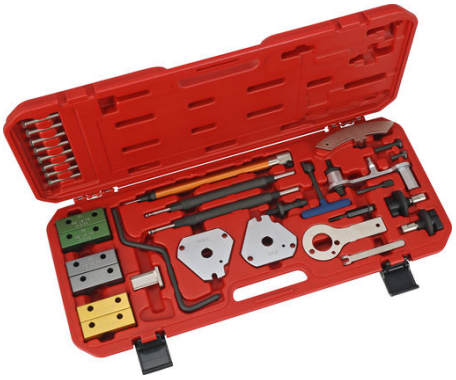
for engine codes:
176A3000, 176A5000, 176B3000, 149B1000, 160A6000, 160A7000, 160D1000, 230A2000, 230A3000, 230A4000, 280A1000

Timing Tool Set, Fiat

- also for identically constructed engines from Lancia
- for 1.7 and 1.9 L diesel engines with and without turbo charger
- in Fiat Punto, Tipo, Tempra and Ducato
- for timing belt replacement and engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	1860932000	*6417-01*
Camshaft Locking Tool	1860934000	*6417-02*
Camshaft Locking Tool	1860931000	*6417-03*
Crankshaft Locking Tool	1860933000	*6417-04*
Assembly Kit		*6417-05*

Item	Art. No.
Timing Tool Set, Fiat 1.7/1.9 D/TD	6417



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

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

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	1860332000	*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	1860898000 / 1820630000	*3526-15*
Tensioner Pulley Wrench	1860987000 / 3031560	*3526-16*
Locking Pin	0188H / 1860965000	*3526-17*

Content	OEM Comparison No.	Art. No.
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 1.6 and 2.0L petrol engines with timing chain
- in A-, B-, C-, CLA-, GLA and E-class as well as E-class Cabrio / Coupe
- for timing chain replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool (timing chain side)	270589006100 (+6820-02 / 03)	*6820-01*
Camshaft Locking Tool (transmission side)	270589006100 (+6820-01 / 03)	*6820-02*
Camshaft Locking Blocks	270589006100 (+6820-01 / 02)	*6820-03*
Cam Phaser Socket	271589001000	*6801-05*

Item	Art. No.
Timing Tool Set, Mercedes	36820



for engine codes:
M133, M270, M274

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	*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

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



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 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



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*
Locking Screw		3 + 4 mm	*6874-09*
Spare Thrust Bolt Kit	602589056301	3 + 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*

Item	Art. No.
Timing Chain Riveter, Mercedes	6874/1



for engine codes:
M111

Timing Chain Mounting Bracket, Mercedes

- for mounting new timing chains without removing the chain housing
- enables chain mounting as one-man operation
- support when separating and riveting timing chains
- for timing chain replacement, engine repair and cylinder head gasket replacement

Item	OEM Comparison No.	Art. No.
Timing Chain Mounting Bracket	111589196100	6875

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	*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 Pin	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*
Tensioner 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



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

Timing Tool Set, PSA

- 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*
Tensioner 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

13



for engine codes:
EB0, EB0F, EB2, EB2D, EB2DT, EB2DTS, EB2F, EB2M, HMT, HMU, HMV, HMW, HMY, HMZ, HNY, HNZ

Timing Tool Set, PSA

- for 1.0 and 1.2L Vti 3-cylinder petrol engines
- for the generation of engines from 2012 onwards
- in Peugeot 108, 208, 2008, 301, 308, 3008 and 508
- in Citroen C1 II, C3 III, C3 Picasso, C4 II, C Elysee, DS3, DS3 Cabrio and DS4
- for locking the camshafts and crankshaft
- for timing belt replacement or engine repair

Content	OEM Comparison No.	Art. No.
Camshaft Locking Tool	0109-2A	*6503-01*
Flywheel Locking Bolt	0109-2B	*6503-02*

Item	Art. No.
Timing Tool Set, PSA	36503



for engine codes:
EW7J4, EW10J4, EW10J4S, EW10DHPI, EW12J4

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

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



for engine codes:
ES9A, ES9J4, ES9J4S, L7X700, L7X701, L7X713, L7X720, L7X721, L7X727, L7X731, L7X760, L7X762, XFU, XFV, XFW, XFX, XFZ

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

Timing Tool Set, Citroen / Fiat / Peugeot

- also for identically constructed engines from Fiat
- for 2.0 and 2.2L DW10 / DW12 diesel engines with twin camshafts
- in Citroen C4, C5, C6, C8, DS4, Berlingo, C-Crosser, Dispatch, Evasion, Jumper, Jumpy, Relay, Picasso, Grand Picasso, Synergy and Xantia
- in Peugeot 206, 306, 307, 308, 406, 407, 508, 607, 806, 807, 3008, 4007, 5008, Boxer, Expert and RCZ
- in Fiat Ducato, Scudo and Ulysse
- for timing belt / timing chain replacement or engine repair



for engine codes:
DW10ATED4, DW10BTED4, DW10JATED4, DW10BTED/L3, DW10ATD, DW10TD, DW10ATED, DW10BTED, DW10UTD, DW10CTED4, DW12MTED4, DW12BTED4, DW12TED4/L4, DW12UTED, DW12ATEDL/L4, DW12CTED4, RHA, RHE, RHF, RHG, RHH, RHJ, RHK, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ

Content	OEM Comparison No.	Art. No.
Flywheel Locking Tool	0153N / 0188D / 0288D / 0188Y / 7099TM	*3521-22*
Crankshaft Locking Pin	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, Citroen / Fiat / Peugeot	36522

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



for engine codes:
S8U, S9W, S9U, 814467, 814027, 814047R, 814421, 814497Y, 814043, 814063, 814043S

Content	OEM Comparison No.	Art. No.
Locking Pins	21260 / 5711TD / 0178D / 077440010400 / 303732 / 0194A / 1860617000 / 9997169 / 119870 / 49JE02018	*3521-12*

Content	OEM Comparison No.	Art. No.
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:
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

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

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	*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*
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

Timing Tool Set, Renault



- 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

for engine codes:
D4F, D4FT, F2N, F3P, F3R, F3RJ, F3RK, F4P, F4R, F4RT, K4J, K4M

Timing Tool Set, Renault



- 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

for engine codes:
D4F, D4FT, F2N, F3P, F3R, F3RJ, F3RK, F4P

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



for engine codes:
K4M700, K4M701, K4M720, K4M724, K4M748

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:
K4M(2003-)

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:
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

- 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:
N7Q, N7U, JZDA, HUBA, HUWA, HYDA, HYDB, HYDC, B4164, B4184, B4194, B4204, B5202, B5204, B5234, B5244, B5252, B5254

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

e.g. for engine codes:
Renault N7Q, N7U
Volvo B4164, B4184, B4194, B4204, B5202, B5204, B5234, B5244, B5252, B5254
Ford JZDA, HYDB, HYDC

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

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	T50	1/2"	MOT1368	6768



for engine codes:
D4F, K4J, K4M, G9T

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*
Locking Pin, 3 mm	995305010	*6720-07*
Tensioner Locking Pin	KM6130 / EN9552	*6300-09*
Camshaft Alignment Tool	EN48331 / MOT1773	*6720-08*
Crankshaft Locking Pin	EN48330 / MOT1766	*6720-02*
Camshaft Locking Tool	EN48332 / MOT1769 / MOT1969 / 626589044000	*6720-04*
Crankshaft Locking Pin	MOT1970 / 626589001500	*6720-09*
Locking Screw		*6720-06*
Tensioner Wrench		*6720-03*

Item	Art. No.
Timing Tool Set, Renault	36720



for engine codes:
622951, 626951, M9R, M9T, OM622, OM626, R9M

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*
Locking Screw		*3527-02*

Item	Art. No.
Timing Tool Set, Renault Common-Rail	36727



for engine codes:
F8Q, F9Q, G9T, G9U, K9K



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



6712

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

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

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

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

Universal Kit for Diesel Injection Pumps

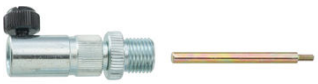


- for pumps from Bosch VE, Nippon-Denso, Kikki, Lucas and CAV Rotodiesel
- universal for almost all distributor injection pumps
- with angled adapter for hard to reach areas
- for setting fuel delivery
- dial gauge with measuring range 0-8 mm, shaft 8 mm H6, tolerance 0.01 mm and outer-ø 42 mm
- e.g. 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

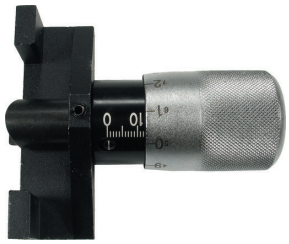
Item	Art. No.
Universal Camshaft Locking Tool	6099



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



Camshaft Sprocket Holding Wrench

- solid metal construction
- compact design for hard to reach areas
- suitable for various belt structures, belt can easily be replaced
- for counter holding camshaft sprockets when loosening or turning

Item	for Manufacturer	Length	Art. No.
Camshaft Sprocket Holding Wrench	universal	260 mm	6045

Flat and V-Belts

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

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



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	Length	Profile	Size	Art. No.
Wrench with Removal Pin	470 mm			*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



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



Serpentine Belt Set, 14 pcs.

- extra long, bent design
- for operating the automatic tensioner on flat and ribbed belts
- also for tensioners on cam belts
- with 10 different inserts
- extra flat and long design for hard to reach areas

Item	pcs	Art. No.
Serpentine Belt Set	14	5470

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	Art. No.
Alternator Socket, 3/8", 31 teeth nut, spline M10	*4503-01*
Alternator Socket, 1/2", 33 teeth nut, spline M10	4510
Alternator Socket, 1/2", 33 teeth nut, tx-star T50	4550
Socket Bit, 1/2", spline M10x140 mm	*4503-16*
Socket Bit, 1/2", spline M10x200 mm	*4503-17*
Socket Bit, 1/2", tx-star T50x140 mm	*4503-18*
Socket Bit, 1/2", tx-star T50x200 mm	*4503-19*
Bit, round shank, hexagon 10x71 mm	*4503-26*
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, 12 mm hex, spline M10x64 mm	*4503-27*
Bit, round shank, tx-star T40x75 mm	*4713-09*
Bit, round shank, tx-star T50x75 mm	*4713-10*
Bit, round shank, 12 mm hex, tx-star T50x64 mm	*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

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



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



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	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	T50	12 mm	33T - ø 19.5 x hex 17 mm	65 mm	4512



Flywheel Holding Wrench

- for flywheel assembly jobs
- for counter holding when loosening crankshaft pulleys

Item	Length	Art. No.
Flywheel Holding Wrench	250 mm	5481



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



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.

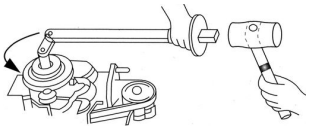
- for hole-punched timing and belt pulleys
- suitable for many popular cars
- for loosening fastening bolts on belt pulleys
- for counter holding e.g. timing belt sprockets on camshafts or injection pumps
- with interchangeable pins
- adjustable ø 40 - 220 mm

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	Description	pcs	Art. No.
Camshaft Pulley Holder	pin-ø 6-16 mm	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

Belt Pulley Puller Set



- for disassembly of pulleys on power steering pumps, fan wheels, alternators etc.

Content	Length	Width	Art. No.
Puller Arm Pair	60 mm		*5476-01*
Puller Arm Pair	110 mm		*5476-02*
Puller Arm Pair, bent	60 mm		*5476-03*
Yoke with Spindle		140 mm	*5476-04*
Yoke with Spindle		230 mm	*5476-05*

Item	Art. No.
Belt Pulley Puller Set	5476

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

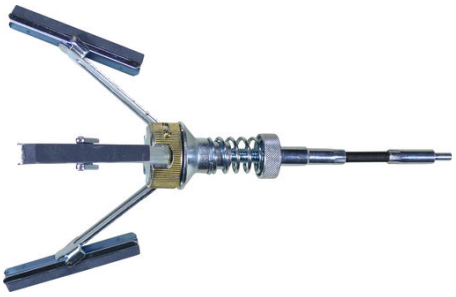
Stud Extractor



- 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



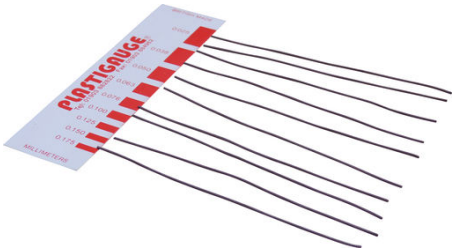
- for almost all combustion engines
- solid construction
- with flexible shaft
- large range

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

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 Sets

- 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, 13 cutters, 45 + 90°, ø 30, 32.5, 35, 37.5, 40, 42.5, 45, 47.5, 50, 52.5, 55, 57.5, 60 mm	14	5295
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

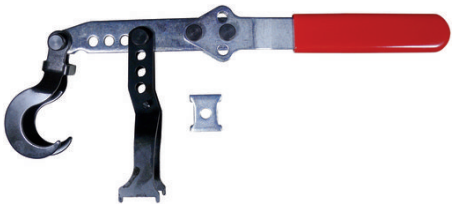
Item	Spread	Art. No.
Valve Spring Compressor	60 mm	4590



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	Description	Art. No.
Valve Seal Remover with Sliding Hammer	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

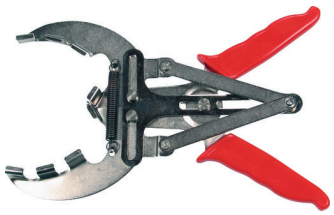
Item	Length	Art. No.
Valve Seal Ring Pliers	250 mm	298



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

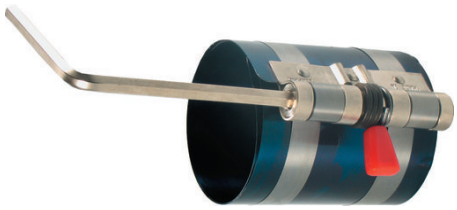
Item	Length	Art. No.
Piston Ring Plier	205 mm	181



Piston Ring Compressors

- for inserting the piston into engine block
- with tensioning lock
- extra long tensioning lever

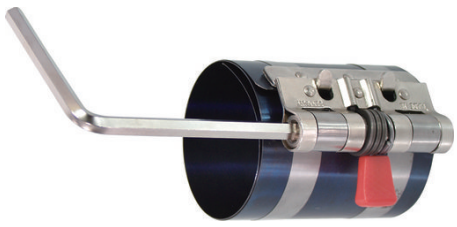
Item	Spread	Height	Art. No.
Piston Ring Compressor	40 - 75 mm	50 mm	180A
Piston Ring Compressor	57 - 125 mm	80 mm	180B
Piston Ring Compressor	90 - 175 mm	80 mm	180C
Piston Ring Compressor	90 - 175 mm	165 mm	180D



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



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

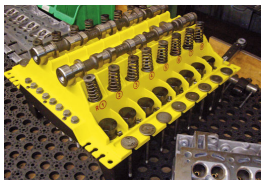


- for lowering the subframe
- mounting orientation remains unchanged
- for replacing original bolts on supported engine
- give 20 cm extra space in upper engine compartment
- required when working on starter or turbo charger

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 suutable 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

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	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

Specialist Sockets for Glow Plug Electrode, 6 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	Length	Art. No.
Socket	twist profile	2.6 mm	1/4"	40 mm	*2096-01*
Socket	twist profile	3.2 mm	1/4"	40 mm	*2096-02*
Socket	twist profile	3.5 mm	1/4"	40 mm	*2096-03*
Socket	twist profile	4.5 mm	1/4"	40 mm	*2096-04*
Socket	twist profile	6.5 mm	1/4"	40 mm	*2096-05*
Socket	twist profile	8.25 mm	1/4"	40 mm	*2096-06*

Item	pcs	Art. No.
Specialist Sockets for Glow Plug Electrode	6	2096

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	Description	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					1/4" thread	*8820-09*

Item	Art. No.
Glow Plug Impact Wrench	8820

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



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	pcs	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	2	*2088A-08*
Extraction Spindle			*2088A-09*
Drill Pilot		2	*2088A-10*
HSS Twist Drill	3.5 mm		*2088A-11*

Item	Art. No.
Glow Plug Extraction Drill Set	2088A



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

for engine codes:
AFB, AKE, AKN, ASB, AYM, BAU, BCZ, BDG, BDH, BFC, BKN, BKS, BMK, BNG, BPP, BSG, BUG, BUN

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



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 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 Reamer Set, 3 pcs.

- for popular glow plugs in European cars
- for removing engine carbon deposits when changing glow plugs
- before using, put grease on reamers to ensure removed deposits stick to the reamer and do not fall into the combustion chamber

Content	Size	Drive	Length	Art. No.
Specialist Reamer	M10x1.0	10 mm hex	107 mm	*2093-01*
Specialist Reamer	M12x1.25	12 mm hex	94 mm	*2093-02*
Specialist Reamer	M12x1.25	12 mm hex	59 mm	*2093-03*

Item	pcs	Art. No.
Glow Plug Reamer Set	3	2093



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 Sockets, 3 pcs.



- for hard to reach glow plugs
- slotted pattern

Content	Profile	Size	Drive	Length	Art. No.
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*

Item	Size	Description	pcs	Art. No.
Glow Plug Sockets	8-10 mm	Slotted	3	2073

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 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

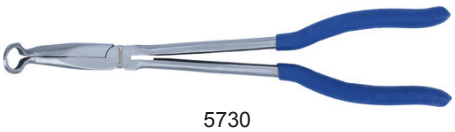


2095

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 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 Sockets

- with rubber insert

Item	Profile	Size	Drive	Length	Art. No.
Spark Plug Socket	hexagon	21 mm	1/2"	90 mm	209
Spark Plug Socket	hexagon	16 mm	1/2"	90 mm	209A
Spark Plug Socket	hexagon	21 mm	3/8"	90 mm	209B
Spark Plug Socket	hexagon	16 mm	3/8"	90 mm	209C
Spark Plug Socket	hexagon	18 mm	3/8"	90 mm	209D



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 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

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

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





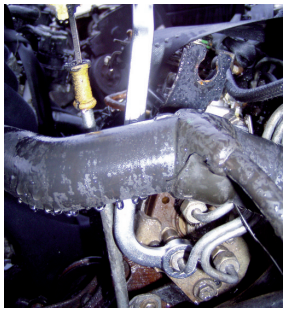
Line Clamp Kit, 8 pcs.

- 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





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

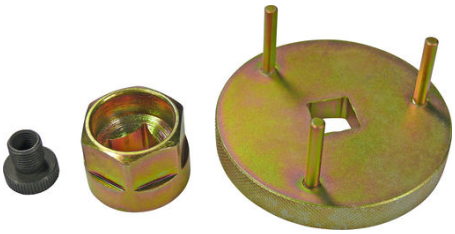


Content	Profile	Size	Drive	Art. No.
Specialist Socket	3-point	M5	1/2"	*4777-05*
Specialist Socket	3-point	M6	1/2"	*4777-06*
Specialist Socket	3-point	M8	1/2"	*4777-08*
Specialist Socket	3-point	M10	1/2"	*4777-10*
Specialist Socket	3-point	M12	1/2"	*4777-12*

Item	Profile	Size	Drive	pcs	Art. No.
Specialist Sockets	3-point	M5-12	1/2"	5	4777

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



for engine codes:
F8Q, F9Q

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

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



for engine codes:
F9Q

Item	OEM Comparison No.	Art. No.
Locking Tool, high-pressure pump sprocket	KM6239	5621

Cleaning Brushes for Injectors



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

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



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 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



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", 25 mm hexagon, slotted		*3339-08*
Specialist Socket	1/2", 29 mm hexagon, slotted		*3339-07*
Specialist Socket	for No. 3339-04		*3339-10*

Item	Art. No.
Diesel Injector Remover	3339

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

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	Drive	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	1/2"	3310A

Item	pcs	Art. No.
Diesel Injector Thread Adapters	6	3306A

Injector Bit

½"



- 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 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



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

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

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



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



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:
OM611, OM612, OM613



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 Seal Ring Remover

- for removing seal rings after injector disassembly

Item	Art. No.
Injector Seal Ring Remover	3560



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



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

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

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

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

Hose Clamp Pliers

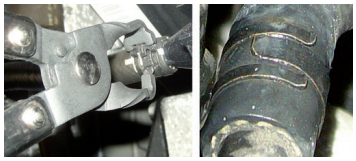
- for loosening fuel line hose clamps
- specially designed jaws for three-ended hose clamps, with the ends resting flat on the hose
- also suitable for various other self-tensioning hose clamps
- e.g. for fuel and tank ventilation lines on recent models from VW, Audi, Skoda, Seat



4728



4729



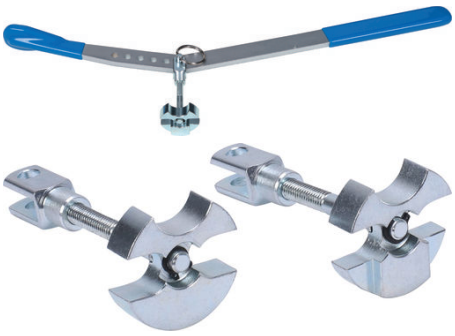
Item	Description	Art. No.
Hose Clamp Pliers	90° application	4728
Hose Clamp Pliers	flat application	4729



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



Assembly Lever for UFI Filter Housing, incl. 2 adapters

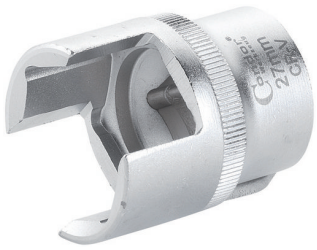
- to avoid leakage through damaged housing
- for Audi / VW 2.0L TDI engines
- incl. 2 adapters for new generation vehicles, e.g. VW Golf VII / Audi A3 / Seat Leon

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

½" CrV

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

½"

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*

for engine codes:
D13A, Z13DT, Z13DTH, Z13DTJ, Z19DT, Z19DTL, Z19DTH

Item	Art. No.
Diesel Fuel Filter Remover	4855A

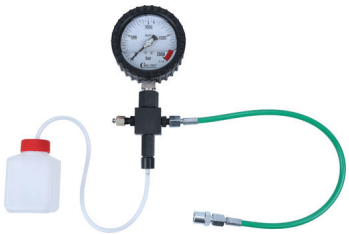
Testing Equipment

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 No. 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

Adapter Set for Common Rail Tester, 24 pcs.



- accessory for No. 3530
- adapters for connecting to injectors from Bosch, Delphi, Denso and Siemens

Content	Description	Quantity	Art. No.
Adapter	for Denso injectors	6 pcs.	*3531-01*
Adapters	for Bosch injectors	6 pcs.	*3531-02*
Adapters	for Siemens injectors	6 pcs.	*3531-03*
Plastic Adapter	for Delphi injectors	6 pcs.	*3531-04*

Item	pcs	Art. No.
Adapter Set for Common Rail Tester	24	3531



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



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 / 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

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

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*
Adapter	combined M14x1.25 / M18x1.5		*3549-08*
O-Ring Assortment			*3549-09*
Connection Hose	suitable for adapters from Nr. 3541	470 mm	*3549-10*
Connection Hose		670 mm	*3549-11*

Item	Art. No.
Cylinder Leak Detector	3549



Engine Compression Tester

- suitable for common diesel engines
- with manometer and hose connection with quick coupler
- with 9 adapters, suitable for glow plugs and injectors
- with angled connection adapter and gasket assortment

Content	Length	Description	Art. No.
Manometer with Hose	560 mm	0 - 70 bar	*3541-01*
Adapter Glow Plug	72 mm	M14x1.25	*3541-02*
Adapter Glow Plug	115 mm	M10x1.25	*3541-03*
Adapter Injector	112 mm	ø 19 mm	*3541-04*
Adapter Injector	114 mm	ø 21 mm	*3541-05*
Adapter Glow Plug	119 mm	M10x1.0	*3541-06*
Adapter Injector	78 mm	M20x1.5	*3541-07*
Adapter Injector	65 mm	M24x2.0	*3541-08*
Adapter Glow Plug	54 mm	M12x1.25	*3541-09*
Adapter Glow Plug	74 mm	M10x1.25	*3541-10*
Tensing Bracket Injector	25 mm		*3541-11*
Angle Adapter		90° offset	*3541-12*
Seal Assortment			*3541-13*

Item	Art. No.
Engine Compression Tester, diesel	3541



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 psi / bar / kpa, with data-hold-function
- memory function for measurements of up to 12 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	3548

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 checking oil pressure and engine condition

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*
Angle Adapter	90° offset	*3541-12*

Item	Art. No.
Oil Pressure Test Kit	3544

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



Exhaust Emission Pressure Tester

- for checking exhaust back pressure
- with manometer and connection hose with heat protection coating
- also operable during road test

Content	Description	Art. No.
Manometer	0 - 1.5 bar	*3558-01*
Connection Hose	300 cm, with heat protection coating	*3558-02*
Connection Adapter Kit	2 pcs.	*3558-03*

Item	Art. No.
Exhaust Emission Pressure Tester	3558







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*
Cooling Fluid Hose	130 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
Adapter No. 22	green	355A-22
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

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	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	*5041-02*

Item	Art. No.
Universal Radiator Pressure Adapter	5041



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



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



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
Bottle for Cleaning Agent, empty	for water	*5046-05*

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.	*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	water pump counter holder	*5480-08*

Item	pcs	Art. No.
Fan Service Wrench Set	6	5480

13



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



4725/1

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.

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

Universal Hose Remover



- Often corrosion of the fittings causes hoses in vehicles to be stubborn when attempting to loosen them. This hose remover enables to twist the hoses on their fittings, thus loosening them without causing damage to the hose itself.

Item	for Ø	Art. No.
Universal Hose Remover	24 - 53 mm	9400

Hose Clamp Set, for ø up to 10, 15, 25 and 45 mm, 4 pcs.

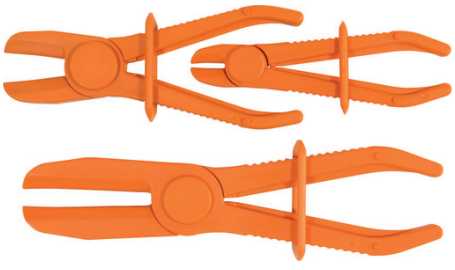


- with swivel hook for easy fixing
- for clamping e.g. radiator and fuel lines

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	pcs	Art. No.
Hose Clamp Set	10, 15, 25, 45 mm	4	4754

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 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

13 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	*4765-3/8*
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 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

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

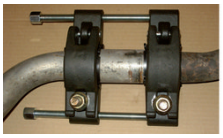
Threaded Bushes

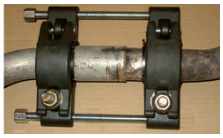
- with antirust protection



Item	Size	Length	Quantity	Art. No.
Threaded Bushes	M18x1.5	9 mm	5 pcs.	5679/1







Exhaust Pipe Disconnector

- for separating tight and stubborn pipe connections
- for pipe ø 35-70 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

13





4950/R3, 4950/R7

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

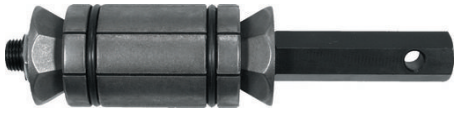


Exhaust Pipe Chain Cutter

- or 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

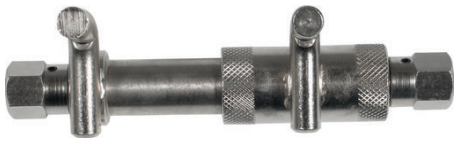
Exhaust Clamp Pliers, Peugeot / Citroen



- 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

Exhaust Hanger Removal Pliers, extra long



- for damage-free removal of rubber exhaust hangers
- saves time and energy
- with self-adjusting thrust bolt

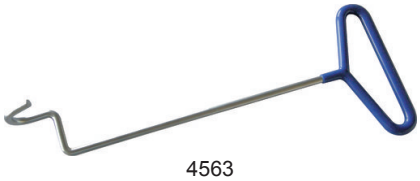
Item	Length	Art. No.
Exhaust Hanger Removal Plier	360 mm	4568



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

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, 17 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, for No. 3996A	capacity 7.5 L	*3996A/BE*
Adapter Set	17 pcs.	3996/17

Item	Capacity	Art. No.
Transmission Oil Refilling Tool	7.5 L	3996A



Adapter Set, 17 pcs., for transmission oil refillment

- for refilling transmission oil also with other pump systems

Content	Description	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	*3996-103*
Adapter	150 x 30 mm, offset	*3996-104*
Adapter	thread M10 x 1.0	*3996-105*
Adapter	thread M24 x 1.5, for Audi / VW DSG transmission	*3996-106*
Adapter	thread M22 x 1.5, for Audi / VW CVT transmission	*3996-107*
Adapter	thread M12 x 1.5, for MB transmission code 722.9	*3996-108*
Adapter	thread M18 x 1.5	*3996-109*
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 M18 x 1.5, offset	*3996-113*
Adapter	thread M8x1.0	*3996-114*
Adapter	OEM VAS-6291/2, for Audi / VW	*3996-115*
Adapter	thread M12 x 1.25	*3996-116*
Adapter	thread M14 x 1.5	*3996-117*

Item	Description	Art. No.
Adapter Set	17 pcs.	3996/17



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	Art. No.
Adapter	thread M12 x 1.5, for MB transmission code 722.9	*3996-108*
Adapter	thread M22 x 1.5, for Audi / VW CVT transmission	*3996-107*
Adapter	thread M24 x 1.5, for Audi / VW DSG transmission	*3996-106*

Item	pcs	Art. No.
Adapter Set	3	3996/3

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

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

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 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 copper seal rings

Content	Size	Quantity	Art. No.
Copper Ring Set	M13	10 pcs.	5368/R13
Copper Ring Set	M15	10 pcs.	5368/R15
Copper Ring Set	M17	10 pcs.	5368/R17
Copper Ring Set	M20	10 pcs.	5368/R20
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 6x new drain plugs and 6x copper seal rings

Item	Application	pcs	Art. No.
Repair Kit for Oil Drain Plugs	for damaged thread M10x1.5	19	5369/13
Repair Kit for Oil Drain Plugs	for damaged thread M12x1.5	19	5369/15
Repair Kit for Oil Drain Plugs	for damaged thread M14x1.5	19	5369
Repair Kit for Oil Drain Plugs	for damaged thread M16x1.5	19	5369/20



accessory

Item	Art. No.
Copper Rings, M13, for No. 5368 and 5369/13, 10 pcs.	5368/R13
Copper Rings, M15, for No. 5368 and 5369/15, 10 pcs.	5368/R15
Copper Rings, M17, for No. 5368 and 5369, 10 pcs.	5368/R17
Copper Rings, M20, for No. 5368 and 5369/20, 10 pcs.	5368/R20
Drain Plugs, M13, for No. 5368 and 5369/13, 5 pcs.	5368/S13
Drain Plugs, M15, for No. 5368 and 5369/15, 5 pcs.	5368/S15
Drain Plugs, M17, for No. 5368 and 5369, 5 pcs.	5368/S17
Drain Plugs, M20, for No. 5368 and 5369/20, 5 pcs.	5368/S20



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 welded square	35374/14
Oil Filter Wrench	14-point	84 mm	3/8"	with welded 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 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 Wrench Set for Commercial Vehicles, 9 pcs.



- for popular cartridges in commercial vehicles
- sheet metal 2 mm, black lacquered finish
- with reinforced, welded square profile
- includes 1x ring spanner 21 mm bi-hexagon and 1x oil filter strap wrench
- 7 oil filter wrenches: 36 mm x 6 pt., 76 mm x 14 pt., 106 mm x 15 pt., 107 mm x 15 pt., 108 mm x 15 pt., 108 mm x 18 flutes, 135 mm x 18 pt.

Item	Drive	pcs	Art. No.
Oil Filter Wrench Set	3/8"	9	353/9

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 Wrench Set, 17 pcs.

- manufactured from diecast aluminium
- with 1/2" sq. drive and 27 mm external hexagon
- includes 27 mm ring spanner
- 15 oil filter wrenches: 64 - 101 mm

Item	Drive	pcs	Art. No.
Oil Filter Wrench Set	1/2" / 27 mm hex	17	353



Oil Filter Wrench Set, 6 pcs.

- manufactured from diecast aluminium
- with 1/2" sq. drive and 27 mm external hexagon
- 6 oil filter wrenches: 74 mm x 8 pt., 91 mm x 12 pt., 73 mm x 14 pt., 74 mm x 15 pt., 75 mm x 15 pt., 73 mm x 30 pt.

Item	Drive	pcs	Art. No.
Oil Filter Wrench Set	1/2" / 27 mm hex	6	354



Oil Filter Wrench, aluminium

- for Audi / VW diesel engines
- specially for filters from Knecht, Mahle and Mann
- ideal for removing oil filters in confined spaces

Item	Profile	Size	Drive	Art. No.
Oil Filter Wrench	cross bar	58.5 mm	1/2" / 24 mm hex	35585



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	40 - 85 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	65 - 130 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

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	Arms	Art. No.
Oil Filter and Cartridge Wrench XXL	95 - 160 mm	1/2"	3	4253

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

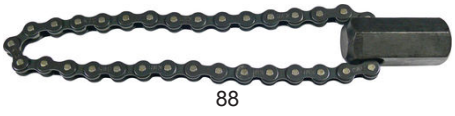
Item	for Ø	Drive	Art. No.
Oil Filter Chain Wrench	60 - 115 mm	1/2"	4246



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



88A

Oil Filter Chain Wrench

- chain length approx. 400 mm
- for left and right hand drive

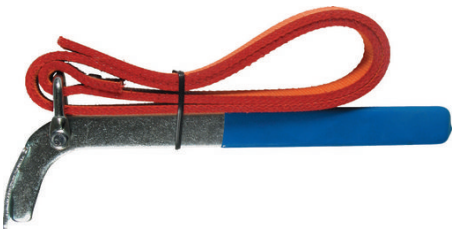
Item	for Ø	Drive	Description	Art. No.
Oil Filter Chain Wrench	max. 115 mm	1/2"		88
Oil Filter Chain Wrench, heavy duty	max. 120 mm	1/2"	with reinforced chain	88A



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

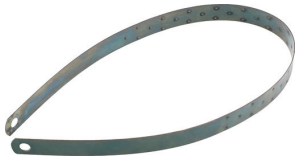


Oil Filter Strap Wrench

- 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

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 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

Universal Oil Plug Wrench, 8 in 1



Item	Description	Art. No.
Universal Oil Service Wrench	6x square + 2x 8-point sizes	85

Drain Plug Key, Citroen / Peugeot



Item	Profile	Size	Art. No.
Drain Plug Key	square	8x10 mm	260

Drain Plug Key Set, 18 pcs.





- for all popular drain plugs
- with sliding t-bar
- hexagon socket bits metric 8, 9, 10, 12, 14, 17 mm
- hexagon socket bits inch 5/16", 3/8", 1/2"
- square socket bits metric 8, 11, 13 mm
- square socket bits inch 5/16", 3/8"
- triangular socket bit for Renault
- spline socket bit tamperproof M16 (transmission VW / Audi / Skoda)
- square socket 10 mm (transmission BMW / Ford / Renault / Toyota)

Item	Drive	pcs	Art. No.
Drain Plug Key Set	3/8"	18	4712A

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



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 Drain Plug Wrench, VW / Audi

- 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



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



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



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

Engine Oil Filler Set, 2 pcs.

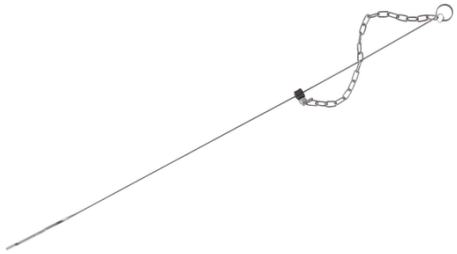


- for clean and time-saving filling of engine oil
- perfect sealing between adapter and engine oil spout
- avoids oil dripping down the exhaust manifold or engine block
- ideal for difficult engines, e.g. VW
- large funnel with 2L volume for high time-saving
- with bayonet adapter for many popular models 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

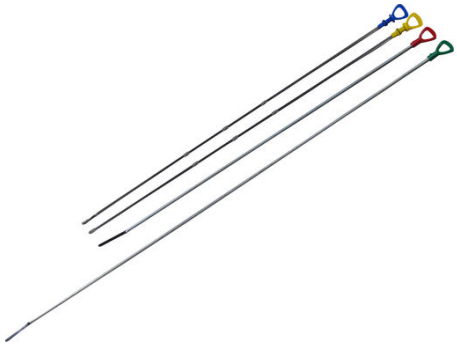
Oil Dipstick, adjustable, Audi



- 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	OEM Comparison No.	pcs	Art. No.
Oil Dipsticks	115589152100, 120589062100, 168589012100, 140589152100	4	4239

Oil Suction Pump, 12 V



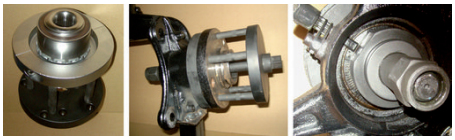
- for pumping out engine oil through dipstick opening
- suction tube with ø 6 mm
- with crocodile clamps to connect to 12 V car battery for power supply
- max. flow rate for enigne oil: approx. 0.2 L/min (with 40° C oil temperature)
- also suitable for heating oil, max. flow rate: approx. 70 L/h
- max suction height: 70 cm

!!! Not suitable for fuel and other easy flamable fluids !!!

Item	Art. No.
Oil Suction Pump	3989

Wheel Bearing + Bushes





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 + 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



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)

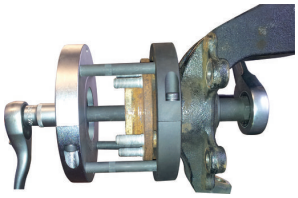
Content	for Ø	Application	Art. No.
Half Moon Pair	85 mm	disassembly	*5585/1*
Half Moon Pair	85 mm	assembly	*5585/2*
Thrust Piece	85 mm	assembly	*5585/M*
Adapter Sleeve for Rear Axle	85 mm	assembly	*5585/T5*
Thrust Bolts, 5 pcs.	75, 85 mm	dis-/assembly	*5585/B*
Thrust Spindle, screw nut	62 - 85 mm	dis-/assembly	*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 Nr. 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 Nr. 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	Art. No.
Spindle, including ball bearing, nut and spacer	*5531-SP*
Thrust Bolt Set, M12x1.5, 3 pcs.	*5531-M12*
Thrust Bolt Set, M14x1.5, 3 pcs.	*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	*5531-C01*
Extractor Bush, inner-ø 77.5 mm x outer-ø 86 mm	*5531-C02*
Extractor Bush, inner-ø 82 mm x outer-ø 91 mm	*5531-C03*
Extractor Bush, inner-ø 92.5 mm x outer-ø 102 mm	*5531-C04*
Thrust Plate, ø 50.0 mm	*5531-A01*
Thrust Plate, ø 55.0 mm	*5531-A02*
Thrust Plate, ø 59.0 mm	*5531-A03*
Thrust Plate, ø 63.3 mm	*5531-A04*
Thrust Plate, ø 66.6 mm	*5531-A05*
Thrust Plate, ø 70.3 mm	*5531-A06*
Thrust Plate, ø 71.5 mm	*5531-A07*
Thrust Plate, ø 73.1 mm	*5531-A08*
Thrust Plate, ø 73.4 mm	*5531-A09*
Thrust Plate, ø 74.8 mm	*5531-A10*
Thrust Plate, ø 77.5 mm	*5531-A11*
Thrust Plate, ø 81.5 mm	*5531-A12*
Thrust Plate, ø 83.4 mm	*5531-A13*
Thrust Plate, ø 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	Art. No.
Spindle, including ball bearing, nut and spacer	*350-SP*
Thrust Bolt Set, M12x1.5, 3 pcs.	*350-M12*
Thrust Bolt Set, M14x1.5, 3 pcs.	*350-M14*
Extractor Bush, ø 86 mm	*350-C1*
Extractor Bush, ø 91 mm	*350-C2*
Extractor Sleeve, ø 76 mm	*350-B*
Thrust Plate, ø 55.5 mm	*350-A1*
Thrust Plate, ø 59 mm	*350-A2*
Thrust Plate, ø 62 mm	*350-A3*
Thrust Plate, ø 65 mm	*350-A4*
Thrust Plate, ø 66 mm	*350-A5*
Thrust Plate, ø 71.5 mm	*350-A6*
Thrust Plate, ø 73 mm	*350-A7*
Thrust Plate, ø 78 mm	*350-A8*
Thrust Plate, ø 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 e.g. 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



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



Specialist Socket, VW T4

- for assembly work on torsion bar springs
- required when working on wheel bearings, supporting joints etc.
- chrome-molybdenum-steel

Item	Profile	Size	Drive	OEM Comparison No.	Length	Art. No.
Socket	hexagon	27 mm	1/2"	3257	140 mm	5544



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.
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, 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 Wheel Hubs, incl. 5 washers	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



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 Wheel Hubs, incl. 5 washers	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





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



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

Puller Set for Wheel Hubs and Brake Drums



- forged
- hole circle 75 - 150 mm
- with sliding hammer 1.6 kg
- with thrust spindle, 1/2" square + 21 mm hexagon
- to be operated with sliding hammer or thrust spindle

Content	Description	Length	Art. No.
Wheel Hub Flange	for hole circle 75 - 150 mm		*5440-01*
Sliding Hammer	1.6 kg	395 mm	*5440-02*
Thrust Spindle	1/2" square (female) / 21 mm hexagon (male)	185 mm	*5440-03*
Turning Bolt		190 mm	*5440-04*
Thread Adapter		60 mm	*5440-05*

Item	Art. No.
Puller Set for Wheel Hubs/Brake Drums	5440

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	Art. No.
Impact Socket Set	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	Art. No.
Impact Socket Set	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

14

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	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"	100 mm	4803/46

Impact Socket Bit, 3/4", spline M18x60 mm



- for loosening and tightening of:
  wheel bearing screw on rear axle of e.g. Audi A3, VW Golf V, Polo, Touran and identically constructed Skodas
  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

Impact Socket Bit

- for assembly of propshafts on recent Audi / VW models
- wheel removal not necessary



Item	Profile	Size	Drive	Description	Art. No.
Impact Socket Bit	Spline	M10	3/8"	with universal joint	5001

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

accessory

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

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

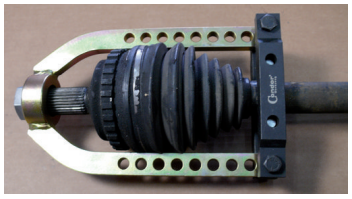
Drive Shaft Feeder, 7 pcs.

- 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



4745/1, 4745/2, 4745/3

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



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	Drive	pcs	Art. No.
Universal Joint Extractor Bolts	M14x1.5, M16x1.5	19 mm hex	2	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

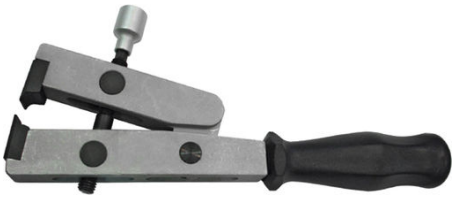


Clamp Pliers for Axle Collar Clamps

- 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



- 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

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

Press Frame and Thrust Piece Set, 6 pcs.



5507

- for disassembly / assembly of the outer supporting joints
- can be upgraded with optional extension set No. 5507/3 for disassembly / assembly of stabiliser ball joints on front control arm
- for Mercedes series W211 (E-class), W220 (S-class), W230 (SL-class)
- c-shaped press frame allows all jobs to be performed directly on the vehicle
- avoids removal of other components like e.g. steering knuckles
- impact quality spindle with trapezoid thread
- thrust pieces from No. 5507/3 and 5507/4 can also be operated with press frame No. 5508, requires adapter sleeve No. 5507/1

Content	Description	Art. No.
Press Frame	clearance 156 x 55 mm	*5507-BG*
Spindle	impact quality	*5507-SP*
Thrust Piece Set	4 pcs., for disassembly / assembly of the outer supporting joints on front axle	5507/4

Item	Application	pcs	Art. No.
Press Frame / Thrust Piece Set	support joint	6	5507



5507/4

Accessory

Item	Art. No.
Thrust Piece Set, MB stabiliser ball joints, 3 pcs.	5507/3
Press Frame, c-type	5508
Adapter Sleeve, for using 5507/3 and 5507/4 with 5508	5507/1



5507/3



5507/1



supporting joint extraction



Press Frame for Silent Blocks

- for disassembly and assembly of silent blocks on BMW E36
- interchangeable thrust pieces, also suitable for other vehicles
- with hydraulic spindle 12 t
- clearance 355 mm

Content	Description	pcs	Art. No.
Press Frame	clearance 355 mm		*5510-PR*
Extension Bolts	for clearance 500 mm	2	*5510-VL*
Thrust Piece Set	for BMW E36 support joint	4	*5510-DS*
Extension Set	for hydraulic spindle	3	*5510-HV*
Hydraulic Spindle	max. 12 t		*5510-HS*

Item	Art. No.
Press Frame for Silent Blocks	5510



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

Item	Profile	Drive	Art. No.
Tooth Socket	4 pins	1/2"	5543



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



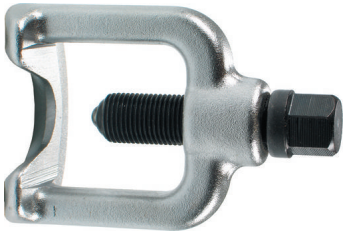


- with lever transmission, 2 to 1
- for extracting ball pins on ball joints, steering knuckles, track rod ends

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



182



182EX

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



Ball Joint Separator

- forged, chrome plated
- for extracting ball joints when disassembling track rods
- not suitable for supporting joints
- 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

14



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
Track Rod Joint Wrench	45 - 50 mm	1/2" / 27 mm hex	4578



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

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

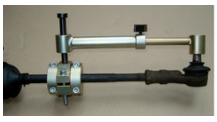
Item	Art. No.
Air Hammer, quick release coupler, round shaft ø 10.2 mm	8810

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





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

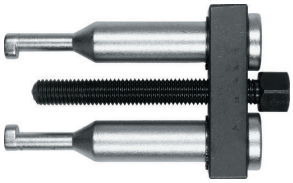
Item	Art. No.
Air Hammer, quick release coupler, round shaft ø 10.2 mm	8810



Steering Wheel Puller Set

- for pulling tight steering wheels from steering column
- for e.g. Opel, Ford etc.
- contains 2 hook pairs, 2 thrust pieces and 1 yoke with spindle

Item	Description	Art. No.
Steering Wheel Puller Set	arm length 85 and 135 mm	4586



Steering Wheel Puller

- for pulling tight steering wheels from steering column
- e.g. for Opel

Item	Spread	Art. No.
Steering Wheel Puller	33 - 50 mm	4585



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 wishbone suspensions, 6 pcs.



- for double wishbone and multilink suspensions
- e.g. BMW (1 and 3 series), Citroen C3, Mercedes-Benz, Peugeot 107, Skoda Oktavia, VW Touran
- TÜV/GS approved
- for quick and professional disassembly and assembly
- includes torsion key (100 Nm) to protect against overload
- includes 2 pairs of jaws (90-120 mm / 120-140 mm)

Item	max. load	Spread	pcs	Art. No.
Coil Spring Compressor, for wishbone suspensions	1500 kg	70 - 167 mm	6	48020

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)

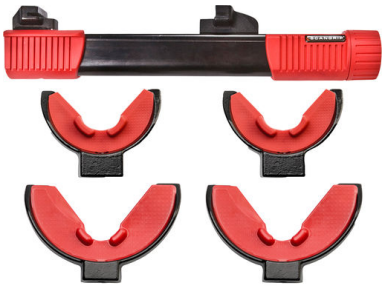
Item	max. load	Spread	pcs	Art. No.
Coil Spring Compressor, for McPherson struts	1500 kg	65 - 364 mm	5	48000

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



Jaw

- to be applied with coil spring compressors 48000 and 48005
- BMW E39 / E46
- 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
- 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 14)
- MINI One, Cooper, Cooper S, models F55/F56 (from 2013)

Item	Art. No.
Jaw	48016



Jaw, counter clock type for left-turning springs, 145-195 mm

- to be applied with coil spring compressors 48000 and 48005
- counter clock type for left-turning springs
- Nissan Qashqai
- Honda Prelude / CRV

!!! please always order in pairs !!!

Item	Size	Art. No.
Jaw	145 - 195 mm	48014

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, 18 pcs.



- for working on shock absorbers, suspension struts and coil springs
- for counterholding the piston rod during disassembly / assembly of struts
- e.g. for Porsche, VW, Opel, Mercedes-Benz, BMW
- includes 10 deep sockets, with specialist profiles for counterholding

Content	Profile	Size	Drive	Length	Art. No.
Go-Through Socket	hexagon	16 mm	1/2" / 21 mm hex	82 mm	*4819-16*
Go-Through Socket	hexagon	17 mm	1/2" / 21 mm hex	82 mm	*4819-17*
Go-Through Socket	hexagon	18 mm	1/2" / 21 mm hex	82 mm	*4819-18*
Go-Through Socket	hexagon	19 mm	1/2" / 21 mm hex	82 mm	*4819-19*
Go-Through Socket	hexagon	21 mm	1/2" / 21 mm hex	82 mm	*4819-21*
Go-Through Socket	hexagon	22 mm	1/2" / 21 mm hex	82 mm	*4819-22*
Go-Through Socket	hexagon	24 mm	1/2" / 21 mm hex	82 mm	*4819-24*
Socket Bit	Hexagon	6 mm	1/2"	120 mm	*4819-H6*
Socket Bit	Hexagon	7 mm	1/2"	120 mm	*4819-H7*
Socket Bit	Hexagon	8 mm	1/2"	120 mm	*4819-H8*
Socket Bit	TX-Star	T50	1/2"	120 mm	*4819-T50*
Socket	hexagon	7 mm	1/2"	123 mm	*4819-S7*
Socket	hexagon	8 mm	1/2"	123 mm	*4819-S8*
Socket	hexagon	9 mm	1/2"	123 mm	*4819-S9*
Socket	Specialist	5x8 mm	1/2"	123 mm	*4819-5x8*
Socket	Specialist	6x8 mm	1/2"	123 mm	*4819-6x8*
Socket	Specialist	7.1x9.6 mm	1/2"	123 mm	*4819-7x9*

Item	pcs	Art. No.
Shock Absorber Tool Set	18	4819

Miscellaneous Tools	
Reversible Ratchet, 21 mm intake	*4819/KN*

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



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

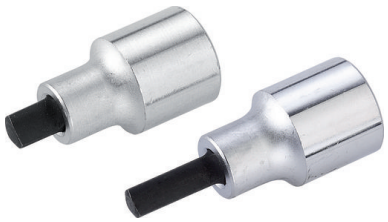


Strut Nut Socket Set, 4 pcs.

- 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

Wheel Camber Tool, 135-175 mm spread



- suitable for one-man camber adjustment, thus allowing large time saving
- spindle length: 75 mm
- suitable for VW Golf, Jetta, Seat Toledo etc.
- application:
  Place tool between rim edge and car body. Now adjust camber by operating spindle.

Item	Drive	Spread	Art. No.
Wheel Camber Tool	22 mm hex	135-175 mm	5341

Wheel Camber Tool, 155-180 mm spread



- suitable for one-man camber adjustment, thus allowing large time saving
- spindle length: 85 mm
- suitable for VW Polo (from´95 onwards), Seat Cordoba etc.
- application:
  Place tool between rim edge and car body. Now adjust camber by operating spindle.

Item	Drive	Spread	Art. No.
Wheel Camber Tool	22 mm hex	155-180 mm	5342

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 Socket Set, extra long, 3 pcs.



- 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"	150 mm	2103/17
Wheel Nut Socket	hexagon	19 mm	1/2"	150 mm	2103/19
Wheel Nut Socket	hexagon	21 mm	1/2"	150 mm	2103/21

Item	Profile	Size	Drive	Length	pcs	Art. No.
Wheel Nut Sockets	hexagon	17, 19, 21 mm	1/2"	150 mm	3	2103

Wheel Nut Sockets, extra long



- 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"	150 mm	2103/17
Wheel Nut Socket	hexagon	19 mm	1/2"	150 mm	2103/19
Wheel Nut Socket	hexagon	21 mm	1/2"	150 mm	2103/21

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

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

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		6/17	*5271-0617*	56/11	*5271-5611*
Specialist		7/19	*5271-0719*	57/12	*5271-5712*
17 mm hex		8/20	*5271-0820*	58/13	*5271-5813*
0/10	*5271-0010*	9/21	*5271-0921*	59/14	*5271-5914*
1/11	*5271-0111*	51/6	*5271-5106*	60/15	*5271-6015*
2/13	*5271-0213*	52/7	*5271-5207*	61/16	*5271-6116*
3/14	*5271-0314*	53/8	*5271-5308*	62/17	*5271-6217*
4/15	*5271-0415*	54/9	*5271-5409*		
5/16	*5271-0516*	55/10	*5271-5510*		

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		#526	*5274-526*	#534	*5274-534*
Specialist		#527	*5274-527*	#535	*5274-535*
17 mm hex		#528	*5274-528*	#536	*5274-536*
#521	*5274-521*	#529	*5274-529*	#537	*5274-537*
#522	*5274-522*	#530	*5274-530*	#538	*5274-538*
#523	*5274-523*	#531	*5274-531*	#539	*5274-539*
#524	*5274-524*	#532	*5274-532*	#540	*5274-540*
#525	*5274-525*	#533	*5274-533*		

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*	P (814)	*5273-P814*
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*	O (813)	*5273-O813*		

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 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

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

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	Profile	Drive	Length	pcs	Art. No.
Specialist Sockets	twist profile	1/2"	150 mm	4	2108/1

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



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	M14 x 1.5	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







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 Insert	specialist profile 2 pins	with clamping ring	M12x1.25	*5355-02*
Thread Chaser Insert	specialist profile 2 pins	with clamping ring	M12x1.5	*5355-03*
Thread Chaser Insert	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



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 Pressure Monitoring System Service Kit

¼"



- for assembling the special sensors and tire valves
- for systems from Siemens VDO, Beru, Schrader etc.
- torque wrench with audible click when torque is reached, quick adjust and lock system, including certificate
- sockets for cap nut on tire valve, socket bits for safety screw

Content	Drive	Measuring Range	Length	Profile	Size	Art. No.
Torque Wrench	1/4"	2 - 10 Nm	165 mm			8210
T-Handle	1/4"		70 mm			*8200-TG*
Socket Bit	1/4"		37 mm	TX-Star	T20	14033/20
Socket	1/4"		tief	hexagon	11 mm	21299/11
Socket	1/4"		tief	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*

Item	Art. No.
Tire Pressure Monitoring System Service Kit	8200

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 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 tyre
- ideal for quick replacement of damaged or leaking rubber valves on cars, vans and motorcycles without removing the tyre 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 tyre 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

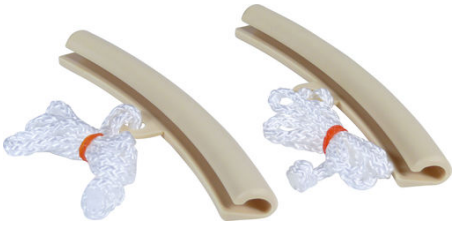


8245

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, chrome plated

- insulated handles

Item	Length	Art. No.
Wheel Balancing Weight Pliers	240 mm	294



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



3706/19



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

- 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

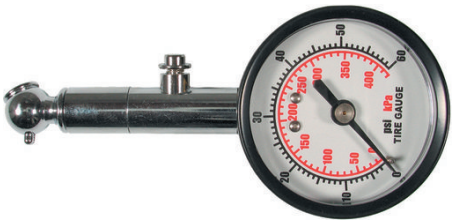
Item	Art. No.
Spare Protector for No. 263/380	263/3REP
Spare Protector for No. 263/500	263/5REP



Tire Lever

- 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 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

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 and ø 3/16"

Item	Art. No.
Flaring Tool Set	4903

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	Art. No.
Hydraulic Flaring Tool Set	4902

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	Art. No.
Professional Flaring Tool Set	4901



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 Service Spanners

- reinforced jaw for high durability
- offset

Item	Size	Art. No.
Brake Service Spanner	10x11 mm	4085
Brake Service Spanner	10x12 mm	4086



ideal for runded nuts on brake lines

Item	Art. No.
Vise-Grip® Jaw Grip Plier 4LW 4"	41025



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 Wrench Set, 5 pcs.



- universally suitable for many manufacturers
- special offset shape enables brake bleeding in hard to reach areas
- avoids wheel disassembly for brake bleeding

Content	Profile	Size	Art. No.
Brake Bleeding Wrench	hexagon	7 mm	*4625-07*
Brake Bleeding Wrench	hexagon	8 mm	*4625-08*
Brake Bleeding Wrench	hexagon	9 mm	*4625-09*
Brake Bleeding Wrench	hexagon	10 mm	*4625-10*
Brake Bleeding Wrench	hexagon	11 mm	*4625-11*

Item	Profile	Size	pcs	Art. No.
Brake Bleeding Wrench Set	hexagon	7-11 mm	5	4625



ideal for rounded vent bolts

Item	Art. No.
Vise-Grip® Jaw Grip Plier 4LW 4"	41025

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 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

- working pressure 5-8 bar
- max. underpressure 76%
- connecting thread: 1/4" inner BSP

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

15



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
- 8 adapters for the most popular applications
- supplied in plastic case

Item	pcs	Art. No.
Brake Bleeding Adapter Set	8	4629

extension

Item	Art. No.
Adapter Set No. 4629 + Universal Adapter No. 4630/3 (29-85.5 mm)	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

Electronic Brake Fluid Tester



- for DOT4 brake fluid
- for quick measurement of water content, just dip measurement tips into brake fluid and read result from LED-display
- detailed measurement results in 5 levels: 0% / <1% / 2% / 3% / > 4% (water content)
- automatic shut-off

Item	Description	Art. No.
Electronic Brake Fluid Tester (DOT4)	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, 16 pcs.

- suitable for many cars
- for rewinding brake pistons

Content		adapter 2	*359/A4*	adapter 9	*359/A11*
Spindles		adapter 3	*359/A5*	adapter E	*359/A19*
right-turn	359/SPR	adapter 4	*359/A6*	adapter G (F)	*359/A23*
Reaction Plates		adapter 5	*359/A7*	adapter M	*359/A28*
plate 1	*359/DP1*	adapter 6	*359/A8*	adapter N	*359/A29*
Wind Back Adapters		adapter 7	*359/A9*	adapter Z (A)	*359/A35*
adapter 0	*359/A3*	adapter 8	*359/A10*		

Item	pcs	Art. No.
Brake Caliper Wind Back Tool Kit	16	359/16

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 B	*359/A14*	adapter P1	*359/A31*
Spindle		adapter B1	*359/A15*	adapter R	*359/A32*
pneumatic	4683	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*		
adapter A1	*359/A13*	adapter P	*359/A30*		

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*

Item	pcs	Art. No.
Pneumatic Brake Caliper Wind Back Tool Kit	48	37448

Air Brake Caliper Wind Back Tool Kit, 16 pcs.



- suitable for many cars
- for rewinding brake pistons
- pneumatic spindle (No. 4683)

Content		adapter 4	*359/A6*	adapter G (F)	*359/A23*
Spindle		adapter 5	*359/A7*	adapter K	*359/A25*
pneumatic	4683	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*		
adapter 3	*359/A5*	adapter E	*359/A19*		

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 4	*359/A6*	adapter G (F)	*359/A23*
Spindle		adapter 5	*359/A7*	adapter K	*359/A25*
pneumatic	359DLSP	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*		
adapter 3	*359/A5*	adapter E	*359/A19*		

Item	pcs	Art. No.
Pneumatic Brake Caliper Wind Back Tool Kit	16	359DL



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



359/SPR, 359/SPL



359DLSP

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	right- and left-turn	359DLSP



359/A1 359/A2

359/A39

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



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

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

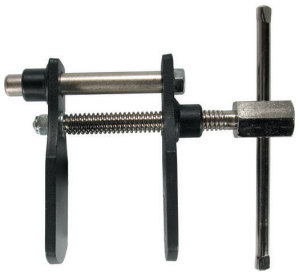
Brake Caliper Retraction Tool for Fixed Calipers



- 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

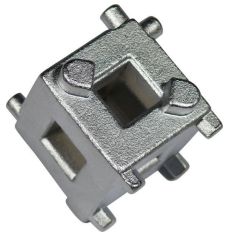
Item	Spread	Art. No.
Brake Caliper Piston Retraction Tool	12 - 75 mm	4580

Brake Caliper Piston Retraction Tool



- for replacing brake pads
- for brake pistons without turning function
- specially suitable for heavy cars, e.g. Mercedes S-class, BMW 7-series, Porsche, SUVs etc.
- also for vans and small trucks

Item	Spread	Art. No.
Brake Caliper Piston Retraction Tool	18 - 110 mm	4595



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



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, extra short

Item	Profile	Size	Drive	Length	Application	Art. No.
Brake Caliper Socket	hexagon	7 mm	3/8"	24 mm	guide pin on rear caliper Mercedes-Benz W204	5230/7
Brake Caliper Socket	hexagon	8 mm	3/8"	24 mm	caliper screw connection on rear axle Audi A4/A6/A8/TT	5230/8



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	Art. No.
Brake Caliper Socket	specialist 10-point	11 mm	1/2"	50 mm	5231

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	Art. No.
Twist Drill	8.80 mm	HSS-E cobalt alloyed	*5359-BO*
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 Piece			*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

Brake Spring Wrench



Item	Ø	Length	Art. No.
Brake Spring Wrench	16 - 22 mm	180 mm	4597

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

Honing Tools



5320



5321

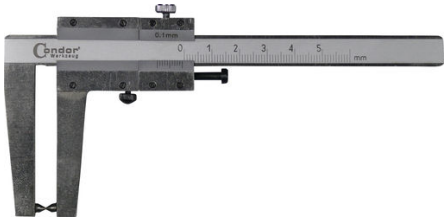
- for maintaining and cleaning cylinders
- solid construction
- with flexible shaft

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 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

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

Metal Forming



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

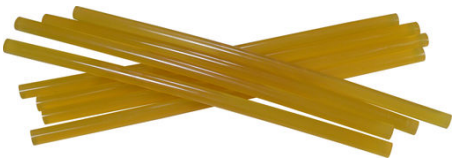


Dent Repair Kit, with hot glue technology

- 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	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		4939-K
Dent Puller Pads				4939-P

Item	Art. No.
Dent Repair Kit, with hot glue technology	4939



Specialist Hot Glue Cartridges

- accessory for dent repair kit nr. 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 nr. 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

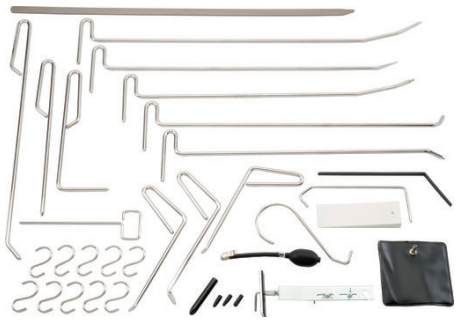
Item	pcs	Art. No.
Dent Repair Set	12	4912



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

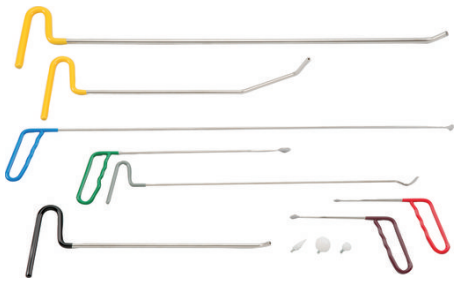
Item	pcs	Art. No.
Dent Repair Kit	33	4933



Dent Repair Kit, 8 pcs.

- to repair dents caused through hail, carparks etc. without damaging car paint
- 8 dent repair tools for common applications
- supplied in strong bag

Item	pcs	Art. No.
Dent Repair Kit	8	4932

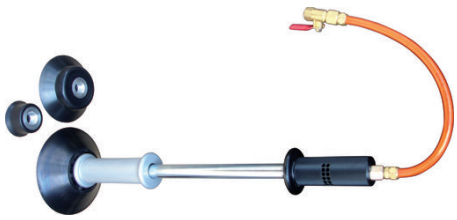


Air Dent Puller

- 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



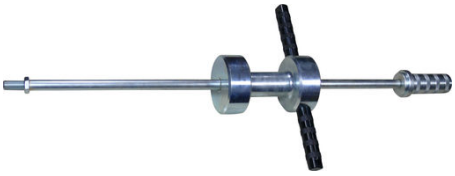
Twist Panel Beating Hammer

- 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



4925



4928

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

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



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

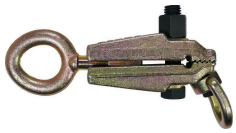
Item	Description	Art. No.
Double Claw	connecting thread M18x1.5, with swivel function	4921



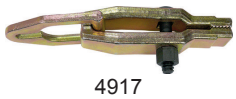
Claw Hook

- 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

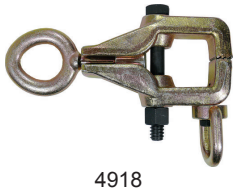
Item	Description	Jaw Width	Art. No.
Claw Hook	connecting thread M18x1.5	85x110 mm	4922



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
- chrome-vanadium-steel

Item	Length	Art. No.
Panel Chisel	230 mm	231

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

Car Body Files

- made in Germany

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



5346



5346/12



5347/9



5347/12



5346/1

Seaming Pliers

- for bending and folding sheet metal
- also suitable for roofers for seaming zinc and copper sheets

Item	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



5835/1



5835/2



5835/3



Seaming Pliers for Doors and Bonnets

- for seaming on outside doors
- ideal when restoring oldtimers
- high lever transmission for convenient working
- protective plastic jaw
- also suitable for internal and external radiuses

Item	Description	Length	Art. No.
Seaming Pliers for Doors and Bonnets	with 32 and 50 mm protective jaws	310 mm	5836



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 tyres and wheel housing

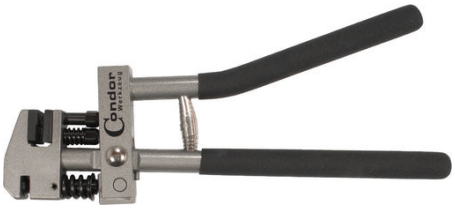
Item	Description	Length	Art. No.
Flange Pliers for Wheel Housing and Fender	with protective jaw	310 mm	5837



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

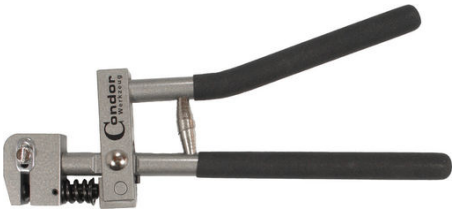
Item	Description	Weight	Art. No.
Wheel Arch Reforming Tool	for hole circle 95 - 120 mm	7500 g	5838



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

Spot Weld Cutter Sets, 5 pcs.



8775



8776

- for separating spot welded sheet metal
- to be operated with power drills

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

Spot Weld Cutter Sets, 5 pcs.



8770



8771

- for separating spot welded sheet metal
- requires specialist machines

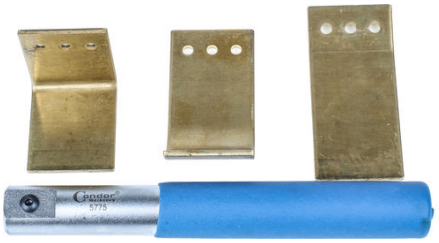
Item	Ø	Length	Material	Quantity	Art. No.
Spot Weld Cutter	8 mm	44 mm	HSS Co5	5 pcs.	8770
Spot Weld Cutter	8 mm	44 mm	HSS Co5 TiCN	5 pcs.	8771

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

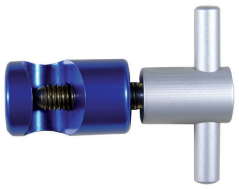
Item	Description	pcs	Art. No.
Copper Plate Welding Tool	with 3 copper plates (straight, bent, half-round)	4	5775



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 Golf VI, Tiguan, Fox, Passat, Polo etc.

Item	Description	Length	Art. No.
Door Handle Disassembly Hook	with specialist hook profile	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



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



Sanding Block

- for abrasive paper
- metal clamping device

Item	Length	Width	Art. No.
Sanding Block	210 mm	105 mm	9533

Interior

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.



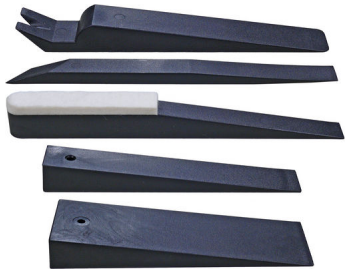
W, R, B, A, C

- 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

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

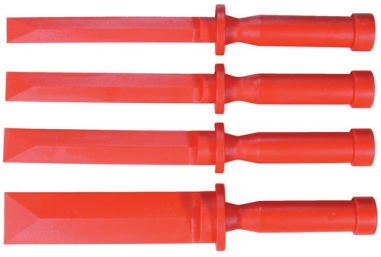
Clip Lever Set, stainless, 5 pcs.



- 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

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



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	Width	Art. No.
Removal Lever	straight type	320 mm	16 mm	*3732-01*
Removal Lever	offset	120x220 mm	16 mm	*3732-02*

Item	pcs	Art. No.
Disassembly Tool for Automotive Light Covers	2	3732



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 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 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	6-9 mm	370



Door Panel Removal Tool

- for loosening door linings, covers etc.
- also for removing plastic expansion rivets

Item	Length	Art. No.
Door Panel Removal Tool	235 mm	3724

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	pcs	Art. No.
Hook Set, dashboard instruments	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	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	*4995-1*
Airbag Keys	Lupo, Passat B5, Polo from '99, A4, A6, Superb (always apply pairwise)	178x80 mm	*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 (3/8" sq. drive)	*5905-02*

Item	Description	Art. No.
Professional Windscreen Disassembly Set	max. 50 kg capacity per suction cap	5905

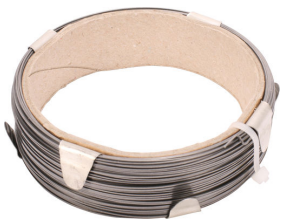


Window Cutting Line, high-strength, 50 m

- 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

16



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
- manufactured in Germany

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 wind-screen
- 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



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	Length	Art. No.
Twin Suction Lifter	115 mm	385 mm	256



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



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





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

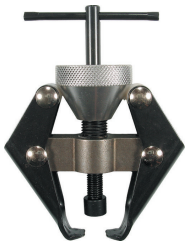
Item	Spread	Art. No.
Wiper Arm Puller	max. 60 mm	4588



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 Insignia, Astra (J) etc.

Item	Description	Length	Art. No.
Windscreen Water Spray Nozzle Adjuster	with specialist profile	150 mm	5929



Commercial Vehicles



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	610-940 mm	5463
Telescopic Pry Bar with Adjustable Jaw	865-1350 mm	5464



Axle and Slotted Nut Wrench, universal

- to assemble and disassemble axle nuts or grease caps, e.g. wheel hubs on trucks and trailers
- suitable for 6- and 8-point nuts, slotted nuts, round nuts
- with 6 pairs of adapters
- for max. 145 mm spread between pins
- slim design
- solid tensioning screws
- weight 2.8 kg (excl. adapters)

Content:
1x main body wrench
2x adapters, round, 6 mm
2x adapters, round, 8 mm
2x adapters, round, 10 mm
2x adapters, square, 6 mm
2x adapters, square, 8 mm
2x adapters, square, 10 mm

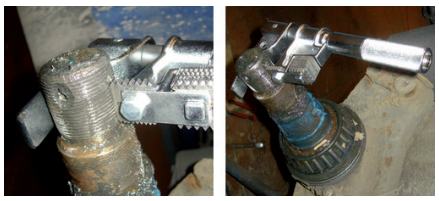
Item	Drive	Art. No.
Axle and Slotted Nut Wrench	3/4"	3460



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

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



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



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	Application	Art. No.
Specialist Socket for Truck Diesel Injectors	Mercedes-Benz, MAN, Scania	4776



Fuel Injection Pump Socket, Mercedes

Item	Profile	Drive	Length	Application	Art. No.
Socket, for fuel injection pump	33 Teeth	1/2"	55 mm	MB 601, 602, 603, 605, 606, 615, 616, 617	4781



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	E18	3/4"	110 mm	MAN M2000, bus engines D08	5221/E18
Impact Socket	TX-Star	E20	3/4"	110 mm	MAN F2000, F90, F8, bus engines D25, D28	5221/E20
Impact Socket	TX-Star	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	E20	22 mm hex	40 mm	MAN TGA	5219/E20
Impact Socket	TX-Star	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

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

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 Set for Commercial Vehicles, 9 pcs.



- for popular cartridges in commercial vehicles
- sheet metal 2 mm, black lacquered finish
- with reinforced, welded square profile
- includes 1x ring spanner 21 mm bi-hexagon and 1x oil filter strap wrench
- 7 oil filter wrenches: 36 mm x 6 pt., 76 mm x 14 pt., 106 mm x 15 pt., 107 mm x 15 pt., 108 mm x 15 pt., 108 mm x 18 flutes, 135 mm x 18 pt.

Item	Drive	pcs	Art. No.
Oil Filter Wrench Set	3/8"	9	353/9

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	95 - 160 mm	1/2"	4253

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

- includes hexagon key

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



Item	Drive	pcs	Art. No.
Impact Bit Set for Trucks	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*

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	Size	Drive	pcs	Art. No.
Socket Bit Set	T70-100	1/2"	4	5004

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

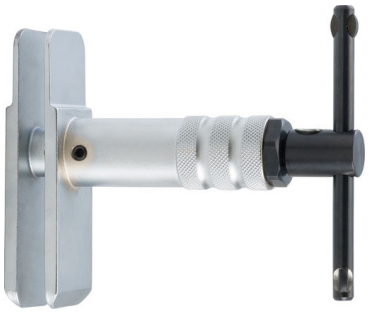
Motorcycle



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

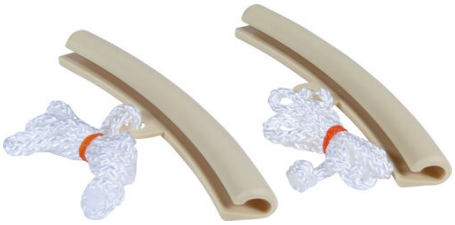
Item	Size	Art. No.
Specialist Socket for Motorcycle Axle Shafts	17 / 19 / 22 / 24 mm	5104



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

Item	Size	pcs	Art. No.
Socket Set	5/32-1"	92	2172



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" female x 1/4" male	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
- includes application list

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

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
- includes application list

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
- includes application list

Content	for Manufacturer	Art. No.
Terminal Release Tool, round type	Audi, BMW, Chrysler, Fiat, Mercedes, Opel, Porsche, Seat, Skoda, Volkswagen	5012-01
Terminal Release Tool, round type	Audi, BMW, Fiat, Mercedes, Opel, Porsche, Seat, Skoda, Volkswagen	5012-02
Terminal Release Tool, round type	Citroen, Ford, Opel, Peugeot, Renault	5012-05
Terminal Release Tool, needle type	universal	5012-53
Terminal Release Tool, fork type	Audi, Chrysler, Citroen, Mercedes, Opel, Peugeot, Porsche, Renault, Saab, Seat, Skoda, VW	5012-56
Terminal Release Tool, fork type	Audi, Chrysler, Mercedes, Seat, Skoda, Volkswagen	5012-59
Terminal Release Tool, fork type	universal	5012-62
Terminal Release Tool, needle type	Audi, Citroen, Fiat, Ford, Mazda, Opel, Peugeot, Renault, Saab, Volkswagen	5012-74
Terminal Release 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 Release Tool, fork type	Audi, Chrysler, Citroen, Mercedes, Opel, Peugeot, Porsche, Renault, Saab, Seat, Skoda, VW	5012-56
Terminal Release Tool, fork type	universal	5012-91





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.

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 Device Cable	195 mm	yellow	1.6 mm	*3580/09IR16*
Female Roundconnector Check Device Cable	195 mm	red	2.5 mm	*3580/09IR25*
Female Roundconnector Check Device Cable	195 mm	black	3.5 mm	*3580/09IR35*
Female Roundconnector Check Device 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*

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)

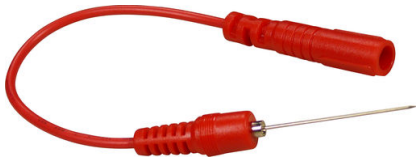
Item	pcs	Art. No.
Inspection Cable Set	15	3581

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

Universal Voltage Tester



- for multilevel testing of voltage and polarity
- LED display
- power-on time max. 30 sec., current drain 140 mA

Item	Measuring Range	Art. No.
Voltage Tester	6 - 400 V, AC/DC	3586

Mains Tester



- with metal clip

Item	Measuring Range	Length	Art. No.
Mains Tester	220 - 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



585

- 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



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



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 Plier Jaws	for insulated terminals ø 0.5 - 6.0 mm	*3049-A*
Crimping Plier Jaws	for non-insulated terminals ø 0.5 - 10.0 mm	*3049-B*
Crimping Plier Jaws	for non-insulated terminals with open crimp grip ø 0.5 - 6.0 mm (width 4.8 + 6.3 mm)	*3049-C*
Crimping Plier Jaws	for BNC / TNC coaxial plugs RG 58, RG 59, RG 62E, RG 71	*3049-D*
Crimping Plier 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, cable end sleeves



- for solderless pressing of cable end sleeves
- handles dip-insulated
- including 150 pcs. zinc plated cable end sleeves

Item	Length	Application	Art. No.
Crimping Pliers, cable end sleeves	160 mm	cable end sleeves 0.25 - 2.5 mm²	3050

Press Locking Pliers



- with wire cutter and stripper

Item	Length	Application	Art. No.
Press Locking Pliers	210 mm	insulated terminals 0.5 - 6 mm²	3040

Press Locking Pliers



- with wire cutter and stripper
- with double press jaw, for simultaneous pressing of conductor and insulation

Item	Length	Application	Art. No.
Press Locking Pliers	210 mm	insulated terminals 0.5 - 6 mm²	3042

Press Locking Pliers



- with wire cutter and stripper

Item	Length	Application	Art. No.
Press Locking Pliers	210 mm	non-insulated terminals 0.5 - 6 mm²	3048

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

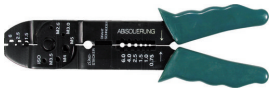
Crimping Pliers



3010



3010EX



3020



3030



3030EX

- with wire cutter and stripper
- screw cutter with thread

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

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

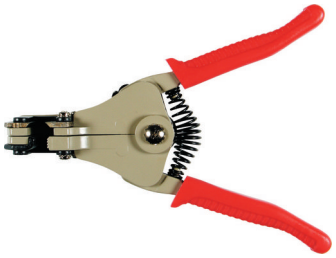
Item	Wire Cross Section	Art. No.
Wire Stripping Tool	0.2 - 0.8 mm²	3060/1
Wire Stripping Tool	0.8 - 2.6 mm²	3060/2



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 mm	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



Battery Lifter

- for lifting and carrying automotive batteries
- rubber-coated jaw for better grip
- adjustable width, 110-180 mm

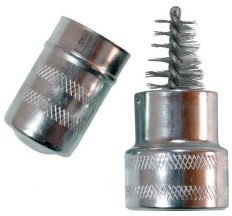
Item	Art. No.
Battery Lifter	3715



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

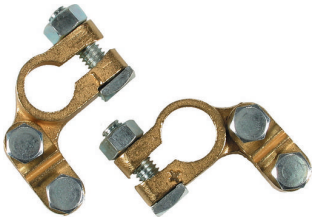


Battery Brush

- 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

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

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

Consumables



Hose Clamp Assortment

- W2, stainless steel
- supplied in handy metal stand, suitable for wall fastening
- 110 hose clamps, each size 10 pcs.:
  8-12 mm
  10-16 mm
  12-20 mm
  16-25 mm
  20-32 mm
  25-40 mm
  30-45 mm
  32-50 mm
  40-60 mm
  50-70 mm
  60-80 mm

Item	Description	pcs	Art. No.
Hose Clamp Assortment	incl. hose clamp screw driver	112	9300



Hose Clamps

- stainless steel

Item	Spread	Description	Band Width	Quantity	Art. No.
Hose Clamps	8 - 12 mm	W2	9 mm	100 pcs.	9300/12
Hose Clamps	10 - 16 mm	W2	9 mm	100 pcs.	9300/16
Hose Clamps	12 - 20 mm	W2	9 mm	100 pcs.	9300/20
Hose Clamps	16 - 25 mm	W2	9 mm	100 pcs.	9300/25
Hose Clamps	20 - 32 mm	W2	9 mm	100 pcs.	9300/32
Hose Clamps	25 - 40 mm	W2	9 mm	100 pcs.	9300/40
Hose Clamps	30 - 45 mm	W2	9 mm	100 pcs.	9300/45
Hose Clamps	32 - 50 mm	W2	9 mm	100 pcs.	9300/50
Hose Clamps	40 - 60 mm	W2	9 mm	100 pcs.	9300/60
Hose Clamps	50 - 70 mm	W2	12 mm	100 pcs.	9300/70
Hose Clamps	60 - 80 mm	W2	12 mm	50 pcs.	9300/80



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, 100 pcs.

- for connecting e.g. vacuum hose or return lines
- manufactured from POM (polyoxymethylen)
- fuel and oil resistant
- 25 pcs. T-shaped connectors: 10x 3 mm, 5x 5 mm, 3x 6 mm, 3x 8 mm, 2x 10 mm 2x 12 mm
- 25 pcs. L-shaped connectors: 10x 3 mm, 5x 5 mm, 3x 6 mm, 3x 8 mm, 2x 10 mm 2x 12 mm
- 25 pcs. I-shaped connectors: 10x 3 mm, 5x 5 mm, 3x 6 mm, 3x 8 mm, 2x 10 mm 2x 12 mm
- 25 pcs. Y-shaped connectors: 10x 3 mm, 5x 5 mm, 3x 6 mm, 3x 8 mm, 2x 10 mm 2x 12 mm

Item	Material	pcs	Art. No.
Hose Connector Assortment	POM (polyoxymethylen)	100	9145

O-Ring Assortment, 225 pcs., inner-ø 3-22 mm



- oil, fuel and acid resistant
- 18 popular sizes (innen-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 mm x thickness mm):
  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 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 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 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

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

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



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

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	Capacity	Length	Art. No.
Suction Pump	500 cm³	ca. 120 mm	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	180 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 Pan, extra flat

- 4 casters
- multifunctional applications
- chemical resistant
- with sieve

Item	Capacity	Length	Width	Height	Art. No.
Fluid Collection Pan	30 L	850 mm	600 mm	125 mm	9900



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





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	Length	Width	Art. No.
Flexible Funnel	368 mm	169 mm	3809



Oil Funnel, double-angled

- ideal for hard-to-reach spaces
- for filling up oil, antifreeze fluid etc.

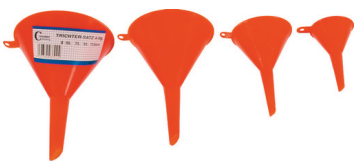
Item	Ø	Height	Material	Art. No.
Funnel	145 mm	320 mm	plastic	9975



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

Hand Lamp 3 in 1 "Mini-Slim", rechargeable, COB-LED



- 3 functions: hand lamp, inspections lamp and torch
- 2 power levels for max. running time
- flexible head 270°, 100% foldable to match pocket size
- strong magnet and fold-out hook provide variable placement options
- extremely slim head with only 9 mm body thickness for narrow spaces
- performance:
  spotlight: 100 lumen (High Power Cree XP-G2 LED)
  main light level 1 (50%): 100 lux / 100 lumen, running time approx. 6 hours
  main light level 2 (100%): 300 lux / 200 lumen, running time approx. 3 hours
  Li-ion rechargeable battery, charging time approx. 3 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Hand Lamp	Cree XP-G2 LED, COB LED	200 lm	48214

Hand Lamp 3 in 1 "Slim", rechargeable, COB-LED





- 3 functions: hand lamp, inspection lamp and torch
- 2 power levels for max. running time
- flexible head 270°, 100% foldable to match pocket size
- strong magnet and fold-out hook provide variable placement options
- extremely slim head with only 9 mm body thickness for narrow spaces
- performance:
  spotlight: 100 lm (High Power Cree XP-G2 LED)
  main light level 1: 400 lux / 250 lumen, running time approx. 5 hours
  main light level 2: 800 lux / 500 lumen, running time approx. 2.5 hours
  Li-ion rechareable battery, charging time 4.5 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Hand Lamp	Cree XP-G2 LED, COB LED	500 lm	48211

Hand Lamp "Miniform", rechargeable, COB-LED



- 2 power levels for max. running time
- flexible head 180°
- strong magnet and fold-out hook provide variable placement options
- slim design, only 13 mm body thickness
- with convenient belt holder
- performance:
  level 1 (50%): 130 lux / 55 lumen, running time approx. 5 hours
  level 2 (100%): 260 lux / 125 lumen, running time approx. 2.5 hours
  Li-ion rechareable battery, charging time approx. 2.5 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Hand Lamp	COB LED	125 lm	48210

Hand Lamp "Uniform", rechargeable, COB-LED



- 2 functions: hand lamp and torch
- 2 power levels for max. running time
- LED-display shows battery charge condition
- flexible head 180°
- strong magnet and fold-out hook provide variable placement options
- hook also suitable as belt holder
- performance:
  spotlight: 150 Lumen (High Power Cree XP-G2 LED)
  main light level 1 (50%): 300 lux / 200 lumen, running time approx. 6 hours
  main light level 2 (100%): 600 lux / 400 lumen, running time approx. 3 hours
  Li-ion rechargeable battery, charging time approx. 5 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Hand Lamp	Cree XP-G2 LED, COB LED	400 lm	48213



Hand Lamp 2 in 1 "Unipen", rechargeable, COB-LED

- 2 functions: hand lamp and torch
- flexible head 180°
- solid and slim construction, dust- and splash-proof (IP65)
- clamp holder with magnet and adjustable hook allow various placement options
- hook also suitable as belt holder
- incl. 1 m USB cable
- performance:
  spotlight: 160 lux / 50 lumen (High Power Cree XP-G2 LED), running time approx. 2.5 hours
  Hauptlicht: 485 Lux / 100 Lumen (COB-LED), running time approx. 2.5 hours
  Li-ion rechareable battery, charging time 3 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Hand Lamp	Cree XP-G2 LED, COB LED	100 lm	48218



Hand Lamp "Superform", COB-LED

- with 5 m power cable, operating voltage 230 V/AC
- 2 fold-out hooks and magnets for various placement options
- solid construction, dust- and splash-proof (IP 54)

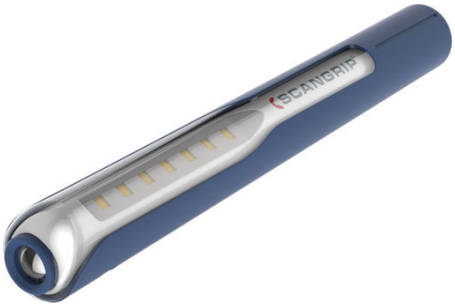
Item	Lamp	Illuminating Power	Art. No.
Hand Lamp	COB LED	700 lm	48217



Hand Floodlight "Star", rechargeable, COB-LED

- 2 power levels for max. running time
- strong magnet on handle for various placement options
- adjustable handle for optimal illumination
- integrated power bank with USB port, e.g. for charging mobile phones
- solid impact resistant construction, splash-proof (IP65)
- performance:
  level 1 (50%): 500 lumen, running time approx. 5 hours
  level2 (100%): 1000 lumen, running time approx. 2.5 hours
  Li-ion rechargeable battery, charging time approx. 6 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Hand Floodlight	COB LED	1000 lm	48212



Penlight "Mag Pen 3", rechargeable

- 2 functions: hand lamp and torch
- solid and slim construction (IP20)
- strong magnet and carrying clip provide variable placement options
- convenient clip for attaching to belt or front pocket
- incl. 1 m USB cable
- performance:
  spotlight: 110 lux / 60 lumen (High Power Cree XP-G2 LED), running time approx. 2 hours
  main light: 1500 Lux / 80 Lumen (7x SMD LED), running time approx. 1.5 hours
  Li-ion rechargeable battery, charging time approx. 1.5 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Penlight	7x SMD LED, Cree XP-G2 LED	80 lm	48219

Head Lamp "Zone", rechargeable, COB-LED



- 2 power levels for max. running time
- wide illumination of working area reduces necessary head movement
- easily adjustable headband (width 25 mm) and low weight (84 g) for high wearing comfort
- performance:
  level 1 (50%): 110 lux / 60 lumen, running time approx. 5 hours
  level 2 (100%): 220 lux / 120 lumen, running time approx. 2.5 hours
  Li-ion rechargeable battery, charging time approx. 3 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Head Lamp	COB LED	120 lm	48200

Hand Lamp 2 in 1 "Line Light C+R", rechargeable



- 2 functions: hand lamp and torch
- to be operated by battery or 5 m power cable (included in delivery)
- extremely slim design with ø 25 mm for narrow spaces
- clamp holder with magnet and adjustable hook allow various placement options
- solid construction, dust- and splash-proof (IK07 / IP65)
- manufactured in EU
- performance:
  spotlight (High Power Cree XP-G2 LED): 150 lumen with 50° illumination angle, running time approx. 8 hours
  main light (24x SMD LED): 600 lumen with 75° illumination angle, running time approx. 2.5 hours
  Li-ion rechargeable battery, running time approx. 4 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Hand Lamp	24x SMD LED, Cree XP-G2 LED	600 lm	48215

Engine Bay Light "Line Light Bonnet C+R", rechargeable



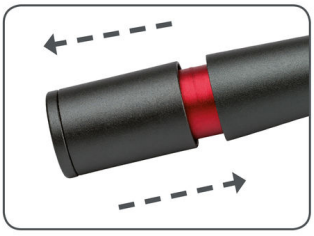
- 2 power levels for max. running time
- to be operated by battery or 5 m power cable (included in delivery)
- adjustable telescopic holder with spread 1200 - 1700 mm
- padded hooks prevent damage to car paint
- also suitable for illumunating passenger compartment
- solid construction, dust- and splash-proof (IK07 / IP65)
- low weight 1000 g for min. drag force on bonnet
- performance:
  level 1 (50%): 1000 lux / 500 lumen, running time approx. 3 hours
- level 2 (100%): 2000 lux / 1000 lumen with 75° illumination angle, running time approx. 1.5 hours
  Li-ion rechargeable battery, charging time approx. 4 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Engine Bay Light	48x SMD LED	1000 lm	48216

Penlight "Matchpen", COB-LED



- ultra-high CRI-value, colour rendering index: > 95 R_a
- ideal for piant, polish and cleaning work
- for colour alignment and idenfifying scratches and marks
- solid body, dust- and splash-proof (IP 54)
- performance:
  100 Lumen, running time approx 2 hours
  reflection angle: 10-70°
  power supply: 2xAAA / 1.5V alkaline



Item	Lamp	Illuminating Power	Art. No.
Penlight	COB LED	100 lm	48205



Floodlight "Nova R", rechargeable, COB-LED

- 5 power levels for precise light adjustment and max. running time
- very solid aluminium casting construction for universal application
- suitable for outdoor application, dust- and water-proof (IK07 / IP67)
- integrated handle for easy and comfortable carrying
- flexible stand 160° with magnet for various angles
- integrated power bank with USB port, e.g. for charging mobile phones
- incl. 1 m USB cable
- performance:
  level 1 (10%): 150 lumen, running time approx. 10 hours
  level 2 (25%): 375 lumen, running time approx. 7.5 hours
  level 3 (50%): 750 lumen, running time approx. 5 hours
  level 4 (75%): 1125 lumen, running time approx. 2.5 hours
  level 5 (100%): 1500 lumen, running time approx. 1 hours
  Li-ion rechargeable battery, charging time approx. 3.5 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Floodlight	COB LED	1500 lm	48220



Floodlight "Nova 3K C+R", rechargeable, COB-LED

- 5 power levels for precise light adjustment and max. running time
- to be operated by rechargeable battery or 5 m power cable (included in delivery)
- very solid aluminium casting construction for universal application
- suitable for outdoor application, dust- and water-proof (IK07 / IP67)
- integrated handle for easy and comfortable carrying
- flexible stand 160° with magnet for various angles
- performance:
  level 1 (10%): 300 lumen, running time approx. 14 hours
  level 2 (25%): 750 lumen, running time approx. 10.5 hours
  level 3 (50%): 1500 lumen, running time approx. 7 hours
  level 4 (75%): 2250 lumen, running time approx. 3.5 hours
  level 5 (100%): 3000 lumen, running time approx. 1 hours
  Li-ion rechargeable battery, charging time approx. 2 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Floodlight	COB LED	3000 lm	48221



Floodlight "Nova 5K C+R", rechargeable, COB-LED

- 5 power levels for precise light adjustment and max. running time
- to be operated by rechargeable battery or 5 m power cable (included in delivery)
- very solid aluminium casting construction for universal application
- suitable for outdoor application, dust- and water-proof (IK07 / IP67)
- integrated handle for easy and comfortable carrying
- flexible stand 160° with magnet for various angles
- performance:
  level 1 (10%): 500 lumen, running time approx. 12 hours
  level 2 (25%): 1250 lumen, running time approx. 9 hours
  level 3 (50%): 2500 lumen, running time approx. 6 hours
  level 4 (75%): 3750 lumen, running time approx. 3 hours
  level 5 (100%): 5000 lumen, running time approx. 1 hours
  Li-ion rechargeable battery, charging time approx. 2 hours

Item	Lamp	Illuminating Power	Art. No.
Rechargeable Floodlight	COB LED	5000 lm	48222

Inspection Mirrors and Pick-Up Tools



3 in 1 Inspection Light

- with 3 different lights
- 2 with flexible shaft

Item	Art. No.
3 in 1 Inspection Light	3570

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

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



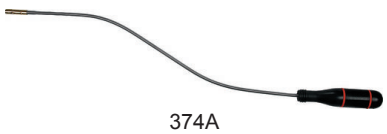
- with clip and nozzle needle

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	Lifting Capacity	Length	Art. No.
Flexible Magnetic Pick-Up Tool	1500 g	550 mm	374
Flexible Magnetic Pick-Up Tool	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, 4 pcs.

- 1x awl
- 1x universal hook
- 1x hook, 90°
- 1x hook, 135°

Item	Blade Length	Length	pcs	Art. No.
Hook Set	80 mm	160 mm	4	1590



1581



1581EX

Seal Puller Hook

Item	Description	Art. No.
Seal Puller Hook	two-sided tip	1581
Seal Puller Hook	flexible two-sided tip, lockable up to 45°	1581/EX



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 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

accessory

Item	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

Bore Brush Set, 38 pcs.



- 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		13 mm	*9500-N13*
8 mm	*9500-M08*	14 mm	*9500-N14*
9 mm	*9500-M09*	15 mm	*9500-N15*
10 mm	*9500-M10*	16 mm	*9500-N16*
11 mm	*9500-M11*	17 mm	*9500-N17*
12 mm	*9500-M12*	18 mm	*9500-N18*
13 mm	*9500-M13*	19 mm	*9500-N19*
14 mm	*9500-M14*	steel	
15 mm	*9500-M15*	8 mm	*9500-S08*
16 mm	*9500-M16*	9 mm	*9500-S09*
17 mm	*9500-M17*	10 mm	*9500-S10*
18 mm	*9500-M18*	11 mm	*9500-S11*
19 mm	*9500-M19*	12 mm	*9500-S12*
nylon		13 mm	*9500-S13*
8 mm	*9500-N08*	14 mm	*9500-S14*
9 mm	*9500-N09*	15 mm	*9500-S15*
10 mm	*9500-N10*	16 mm	*9500-S16*
11 mm	*9500-N11*	17 mm	*9500-S17*
12 mm	*9500-N12*	18 mm	*9500-S18*
		19 mm	*9500-S19*

Drive Tools / Accessory, 1/4"	
Handle, 140 mm	*9500-01*
Extension, 150 mm	*9500-02*

Item	Ø	Shaft	Length	pcs	Art. No.
Bore Brush Set	8-19 mm	1/4"	100 mm	38	9500

Wire Brushes



- body made from wood, with hanging hole, steel wire

Item	Description	Length	Art. No.
Wire Brush	3 rows	280 mm	400A
Wire Brush	4 rows	280 mm	400B
Wire Brush	5 rows	280 mm	400C



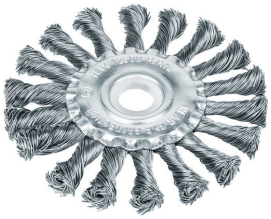
402



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

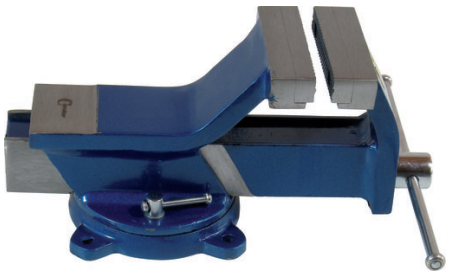


- for power drills
- receiver: 6 mm shank

Item	Ø	Art. No.
Wire Brush	30 mm	9520

Bench Vices

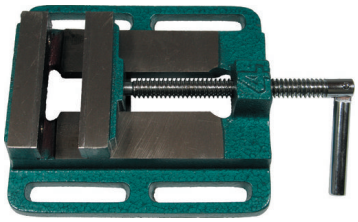
All-Steel Bench Vices



- swivel type, exchangeable jaws

Item	Jaw Width	Art. No.
All-Steel Bench Vice	100 mm	77EX/100
All-Steel Bench Vice	125 mm	77EX/125
All-Steel Bench Vice	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 Vice



- rubber coated aluminium with permanent magnet

Item	Jaw Width	Art. No.
Protection Sleeve for Bench Vice	100 mm	77SCH/100
Protection Sleeve for Bench Vice	125 mm	77SCH/125
Protection Sleeve for Bench Vice	150 mm	77SCH/150

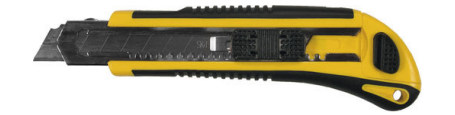
Protection Sleeves for Bench Vice, magnetic



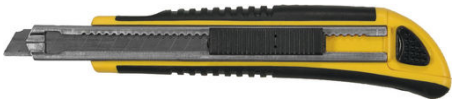
- 4 magnetic jaw pairs with special profiles, suitable e.g. for threaded rods and sensitive work-pieces

Item	Jaw Width	pcs	Art. No.
Protection Sleeves for Bench Vice	100 mm	8	78M/100
Protection Sleeves for Bench Vice	125 mm	8	78M/125

Cutting, Filing and Sawing



211EX



212EX

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



211/1



211/2



212

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



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

Holesaw Kit, 13 pcs.



- for cast iron, non-ferrous metals, wood, plastics, plasterboard etc.
- HSS-Bi-Metal
- content:
  2 arbors with HSS pilot drill: 9.5 + 11 mm hex
  9 holesaws: ø 19, 22, 29, 35, 38, 44, 51, 57, 68 cm
  1 spare pilot drill
  1 adapter

Item	Description	pcs	Art. No.
Holesaw Kit	cutting depth 40 mm	13	689/1

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

Household Scissors



- stainless blades
- plastic coated
- with bottle opener and nut cracker

Item	Length	Art. No.
Household Scissors	215 mm	707

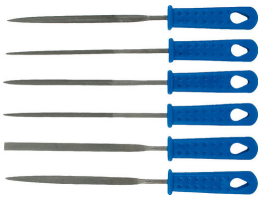
Diamond Needle File Sets, 10 pcs.



- 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

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



Roller Mechanics Seat

- with convenient tool storage area below seat (approx. 320 x 450 mm)
- solid fiber construction
- seat surface approx. 290 x 390 mm
- seat height approx. 280 mm
- 4 swivel casters ø 40 mm

Item	max. load	Art. No.
Roller Mechanics Seat	150 kg	9206

accessory

Item	Art. No.
Spare Caster for Roller Mechanics Seat	9206-01

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	550 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

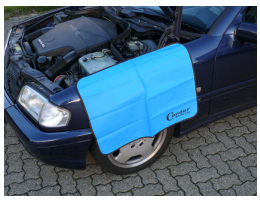


Fender Cover

- magnetic
- protects against dirt, oil and damage to paintwork

Item	Width	Height	Art. No.
Fender Cover	79 cm	59 cm	3801

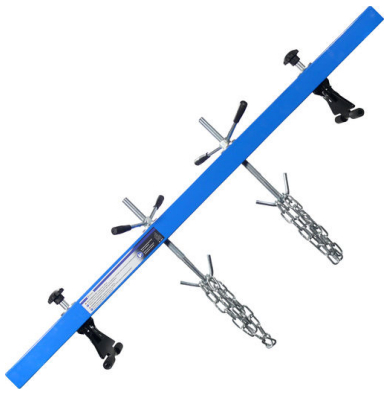




Engine Support

- 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





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



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



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	610-940 mm	5463
Telescopic Pry Bar with Adjustable Jaw	865-1350 mm	5464



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



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

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

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



393EX



393

- suitable for many applications
- for safe and ready-to-use storage of tools
- for wall fixing

Item	Description	Length	Art. No.
Magnetic Tool Holding Bar	extra strong magnet	510 mm	393EX
Magnetic Tool Holding Bar		500 mm	393

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
- strong, rubber-coated magnet

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



Grease Gun

Item	Capacity	Art. No.
Grease Gun	110 g	3982



Lever Grease Gun

- with delivery pipe and connector
- for cartridges 400 g or bulk filling
- thread M10 x 1

Item	Length	Art. No.
Lever Grease Gun	340 mm	3980



accessory

Item	Art. No.
Flexible Delivery Tube, 300 mm	3980A
Flexible Delivery Tube, 500 mm	3980B
Connector	3980D



Pistol Type Grease Gun

- 120 ccm for cartridge or bulk filling
- 1 delivery pipe with connector
- 1 flexible hose 230 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



Precision Oiler

- dispenses drop by drop for clean and precise work

Item	Description	Art. No.
Precision Oiler	aluminium housing	3987

Caulking Guns

Item	Description	Capacity	Art. No.
Caulking Gun	aluminium housing	310 ml	332A
Caulking Gun	toothed rack		330



332A



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



- ideal for creating exact cutouts

Item	Length	Art. No.
Contour Gauge	260 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



3755/1



3755/2

Ratchet Tie Down

- 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



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

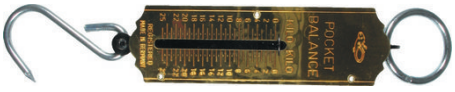
Tool Boxes, empty



- adjustable compartments
- removable tool tray
- lockable

Item	Description	Width	Length	Height	Art. No.
Tool Box	aluminium	150 mm	460 mm	340 mm	154/1
Tool Box	black, with aluminium frame	150 mm	460 mm	340 mm	154/2

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

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
Brass Padlock	50 mm		140/50
Brass Padlock	60 mm		140/60

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





Staples

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., 8 mm	338/8
Staples, 1000 pcs., 14 mm	338/14



Hot Glue Cartridges

- transparent

Item	Ø	Length	Quantity	Art. No.
Hot Glue Cartridges	11 mm	200 mm	16 pcs.	122/16



Carpenters Pencils

Item	Length	Quantity	Art. No.
Carpenters Pencils	250 mm	12 pcs.	643
Carpenters Pencils	175 mm	12 pcs.	644



Marker Pens

- waterproof, suitable for all surfaces

Item	Colour	pcs	Art. No.
Marker Pens	red, blue, black	3	699

Item code	Page
10/8T	70
10/12T	70
12Z/3/8	61
12Z/7/16	61
12Z/1/2	61
12Z/9/16	61
12Z/19/32	61
12Z/5/8	61
12Z/11/16	61
12Z/3/4	61
12Z/13/16	61
12Z/7/8	61
12Z/15/16	61
12Z1/1	61
12Z1/1/16	61
12Z1/1/8	61
12Z1/1/4	61
14Z/5/32	61
14Z/3/16	61
14Z/7/32	61
14Z/1/4	61
14Z/9/32	61
14Z/5/16	61
14Z/11/32	61
14Z/3/8	61
14Z/13/32	61
14Z/7/16	61
14Z/15/32	61
14Z/1/2	61
20/8S	74
22Z/1/2	61
22Z/9/16	61
22Z/5/8	61
22Z/11/16	61
22Z/3/4	61
22Z/13/16	61
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24Z/1/4	61
24Z/9/32	61
24Z/5/16	61
24Z/11/32	61
24Z/3/8	61
24Z/7/16	61
24Z/1/2	61
25/8T	73
25/12T	73
35/6EX	66
35/7TZ	68
35/8T	67
35/11TZ	68
35/12T	67
35/12TZ	68
35/16TZ	68
35/17T	67
35/25T	67
36/12T	66
35Z/1/4	68
35Z/5/16	68
35Z/3/8	68
35Z/7/16	68
35Z/1/2	68
35Z/9/16	68
35Z/5/8	68
35Z/11/16	68
35Z/3/4	68
35Z/13/16	68
35Z/7/8	68
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35Z1/1/8	68
35Z1/1/4	68
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38/13	47
40/5	71
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45/1	81
50/3	100
50/4	100
50/5	100
50/6	100
50/8	100
50/10	100
50/12	100
51/3	100
51/4	100
51/5	100
51/6	100
51/8	100
51/10	100
51/12	100
55EX/100	99
55EX/200	99
55EX/300	99
55EX/400	99
55EX/500	99
55EX/800	99
55EX/1000	99
55EX/1500	99
55EX/2000	99
57/22	100
57/27	100
57/32	100
57/35	100
58/50	100
59/1	317
59/2	317
62	317
63	186, 317
68/30	323
68/40	323
68/50	323
68/60	323
68/80	323
68/100	323
70/460	97
70/610	97
70/760	97
70/910	97
71	97
72	97
73	98
73/42	98
73/63	98
74	315
75	97
77EX/100	315
77EX/125	315
77EX/150	315
77SCH/100	315
77SCH/125	315
77SCH/150	315
77TI	315
78M/100	315
78M/125	315
80	101
80/12	101
80/15	101
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84/4	77
84/4Z	77
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84/10x11	77
84/12x13	77
84/14x17	77
85	221
87	81
87/1	81
88	220
88A	220
89	221
93	220
95/00	115
95/0	115
95/1	115
95/2	115
95/3	115
95/4	115
95/5	115
95/6	115
96/00	115
96/0	115
96/1	115
96/2	115
97/1	117
97/2	117
98	117
99/1	117
100	117
103	272
104	272
106	186
108	108
115	102
115EX	102
116	102
122/16	326
125	81
132/4	80
132/6	80
139/1	114
139/2	114
139/3	114
139/4	114
140/3	325
140/25	325
140/30	325
140/40	325
140/50	325
140/60	325
141/75	119
141/100	119
141/150	119
141/200	119
142/3	119
142/75	119
142/100	119
142/150	119
142/200	119
144	103
145	104
148	104
149	103
149Z	103
154/1	325
154/2	325
155/3	104
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155/5	104
155/6	104
155/8	104
155/10	104
155/12	104
156/3	104
156/4	104
156/5	104
156/6	104
156/8	104
156/10	104
156/12	104
157/0	104
157/1	104
157/1.5	104
157/2	104
158/1	104
158/2	104
158/3	104
158/4	104
158/5	104
159/1	105
159/2	105
165	87
167	88
169A	296
169B	296
170	174
171	114
172	114
173	174
174	174
175	176
176B	106
178/1	111
178/1.1/2	111
178/2	111
179A	177
179B	177
180A	177
180B	177
180C	177
180D	177
180/2	177
181	177
182	240
182EX	240
183	240
184	114
185	114
190	110
191	111
198	30
206/6	58
206/6KR	59
207/14CV	54
207/38CV	54
207/12CV	54
209	185
209A	185
209B	185
209C	185
209D	185
210/1	44
210/2	42
210/3	39
210/4	46
210/5	44
211/1	316
211/2	316
211E	316
211EX	316
212	316
212E	316
212EX	316
222	102
223	100
224	102
224/B	86
225/1	325
225/2	325
225/3	325
225/4	325
225/5	325
226	316
228/5	114
231	273
233	92
235	92
236	92
237/6	74
237/8	74
237/10	74
237/12	74
237/15	74
237/18	74
237/24	74
245/16	186
245/21	186
246/16	186
246/21	186
247/90	186
247/250	186
248/225	185
248/350	185
251	219
255	282
255/2	282
256	282
257	220
260	221
263/380	256
263/500	256
265/250	256
265/400	256
265/500	256
265/600	256
265/750	256
266/9	275
268	325
272CV175	89
272CV240	89
272CV300	89
272EX175	89
272EX240	89
273CV400	89
278	91
279A	96
280	95
281	94
282	94
287/180	94
287/250	94
288/160	94
288/225	94
289	296
294	255
295/220	268
296A	268
298	177
300	84
301A	84
308	86
316	86
327	83
330	322
332A	322
336	326
340A	111
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347	84
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351	203
353	218
353/3	218
353/9	217, 287
353/30	217
353/74/14	216
354	218
355A	205
355A-21	206
355A-22	206
359/13	263
359/16	262
359/18	262
359/37	262
359DL	264
359DLSP	264
359/A1	264
359/A2	264
359/A39	264
359/SPL	264
359/SPR	264
360	111
364	111
366	111
370	278
372	311
373	311
373A	311
374	311
374A	311
378A	112
378B	112
378C	112
382	98
387	98
390	323
390A	323
390B	112
393	321
393EX	321
400A	313
400B	313
400C	313
402	314
403	314
404	266
405	266
406	296
408/10	111
408/12	111
409	111
410	112
420	108
421	108
426	311
427	311
428	325
429	323
429A	323
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438	109
441	108
442	108
443	106
444	109
445	109
446	109
447	109
455	107
456	107
457	107
459	107
506/6	112
560	83
562	83
570	293
580	293
585	293
595	325
635/2	323
643	326
644	326
659	100
689	317
689/1	317
699	326
705	317
707	317
750	90

Item code	Page
760	90
775	295
785	91
815	323
907/10	82
908	86
912	82
920B	83
921	83
930	82
930/103	82
930/118	82
930/153	82
930/203	82
930/208	82
930/218	82
930/253	82
930/273	82
930/303	82
930/317	82
930/403	82
930/318	82
930/517	82
930/607	82
930/617	82
930/817	82
930/917	82
930/M	311
937	83
1001/1	72
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