

## V-Ribbed Belt Tool Set | 2 pcs.

- facilitates assembly and disassembly of Poly-V-Belts
- suitable for most belt pulley sizes
- easy handling through wing nut

Item #
8220



## V-Ribbed Belt and elastic Belt Assembly Tool Set | 11 pcs.

- suitable for assembly and disassembly of elastic V-ribbed belts and double belt pulleys
- for easy and professional belt replacement
- prevents damage to the belt pulley and the belt with minimal effort

- 1 engine rotation adapter, double-sided
- 1 adapter for water pump suitable for Volvo and Ford
- 1 adapter for crankshaft pulleys
- 2 straps attachment with 3 receptacles
- 1 strap attachment with 1 receptacle
- 3 spacers, length: 25, 40 and 65 mm
- 1 belt expansion tool
- 1 cover

### suitable for following models:

- BMW 118, 120, 318, 320, 325, 330, 335, 520, 525, 530, 535, 635, 720, X3, X5
- Audi A3 1.6/2.0D
- Seat Altea, Ibiza 1.6/2.0D
- Skoda Octavia, Yeti 1.6/2.0D
- Volkswagen Eos, Golf, Passat, Polo, Scirocco 2.0D
- Chrysler Grand Voyager, Voyager 2.5D/2.8D
- Ford C-Max, Focus, C-Max, Mondeo, Tourneo, Transit 1.4/1.6/1.8/2.0
- Transit, Transit Tourneo 2.2D, Courier, Fiesta, Fusion 1.6, Mazda 3, 5, Axela 1.8/2.0 and 2 1.2/1.4/1.6 model
- Mercedes Sprinter, Viano, Vito 3.0D
- Peugeot 206, 207, 307, Boxer 1.6D/2.2D/3.0D
- Citroen C2, C3, C4, Jumper, Relay 1.6D/2.2D/3.0D
- Fiat Albea, Doblo, Ducato, Fiorino, Fiorino Qubo, Linea, Palio, Siena, Stilo, Strada Pickup 2.2D/2.3D/3.0D, Doblo, Marea, Multipla 1.6l, Iveco Daily 2.3D / 3.0D
- Volvo C30, S40, V50 1.6/1.8/2.0
- Lancia Lybra 1.6
- Mitsubishi ASX 1.8D

Item #
8301-1



## V-Ribbed Belt and elastic Belt Assembly Tool Set | 7 pcs.

- suitable for assembly and disassembly of elastic / flexible V-ribbed belts and double belt pulleys
- for easy and professional belt replacement
- prevents damage to the belt pulley and the belt with minimal effort
- includes 3 different special tools

- 1 strap attachment with 3 receptacles
- 1 strap attachment with 1 receptacle
- 1 adapter for water pump suitable for Volvo and Ford
- 1 adapter for crankshaft pulleys
- 3 spacers, length: 25, 40 und 65 mm

### suitable for the following models:

- BMW 118, 120, 318, 325, 330, 335, 520, 525, 530, 535, 635, 730, X3, X5 with fuel and diesel engines
- Chrysler Grand Voyager, Voyager
- Citroen C2, C3, C4, Jumper, Relay
- Fiat Albea, Doblo, Marea, Multipla, Ducato, Fiorino, Fiorino Qubo, Linea, Palio, Siena, Stilo, Strada Pick Up
- Lancia Lybra
- Ford C-Max, Focus, Mondeo, Tourneo, Transit, Courier, Fiesta, Fusion
- Iveco Daily
- Mazda 3, 5, Axela
- Peugeot 206, 207, 307, Boxer
- VOLVO C30, S40, V50



Item #
8301

## V-Ribbed Belt Mounting Lever | for Mercedes-Benz

- for tensioning of the tensioning wheel
- facilitates the placement of the V-ribbed belt
- suitable for Mercedes-Benz types: 168, 169 (A-class), 245 (B-class)
- wrench size: 15 mm
- length: 620 mm



Item #
1703

## Mounting Tool Kit for Stretch-Fit Poly-V-Belts | universal

- allows a damage-free mounting of stretch-fit belt systems without tensioner
- 2 different sizes for a wide range of application



Item #
8454



## Flexible Belt Mounting Tool for Citroen, Fiat, Ford, Mitsubishi, Peugeot

- allows damage-free mounting of flexible multi-ribbed belts
- flexible belt drive requires no idler, but this particular assembly tool

### suitable for the following models:

- Citroen Jumper, Relay 2.2D, engine code: 22DT
- Fiat Ducato 2.2D, engine code: 4HF
- Ford Transit, Transit Tourneo, 2.2D, engine codes: C22DDOP, PGFA, P8FA, QVFA, QWFA
- Mitsubishi ASX 1.8D, engine code: 4NI
- Peugeot Boxer 2.2D, engine code: 22DT



Item #
9157

## Flexible Belt Mounting Tool for BMW N52K

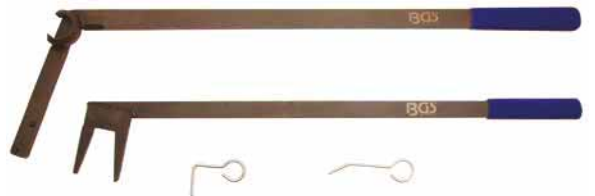
- for damage-free installing of stretch belts
- suitable for N52 engines (as of 2006)
- built in e. g. BMW X5 3.0
- to be used as OEM 111240



Item #
9277

## Ribbed Belt Tool Kit | for MINI

- suitable for MINI Cooper S and One
- for tensioning of air conditioning and alternator ribbed belts
- release lever, for Cooper S, to be used as OEM 118410
- locking pin, for Cooper S, to be used as OEM 118470
- release lever, for MINI One, to be used as OEM 118390
- locking pin, for MINI One, to be used as OEM 118280



Item #
8678

## Air Condition Belt Installation Tool for BMW N62 / MINI W17

- for installation of stretch belts (drive belts without tensioner)
- suitable for stretching belts on BMW N62 (V8) (2004-2006) and MINI W17 (Diesel)
- to be used as OEM 641040



Item #
9038



## Drive Belt Gauge

- for measurement of the inside length of drive belts like V-belts, timing belts and ribbed belts
- measuring range: 500 - 2500 mm



Item #
8863

## Spark Plug Wrench with T-Handle, Ball Joint

- PVC coated T-type handle



Item #	Description
143	Spark Plug Wrench with T-Handle, Ball Joint   16 mm
144	Spark Plug Wrench with T-Handle, Ball Joint   20.8 mm

## Ball Joint Spark Plug Wrench with Torque Limit | 20 Nm | 16 mm

- due to the torque limit spark plugs cannot be damaged
- wrench size: 16 mm
- profile: 12-point
- length: 550 mm
- surface finish: satin chrome plated
- torque: 20 Nm



Item #
146

## Spark Plug Socket with Magnet, 12-point, long | 10 mm (3/8") Drive | 14 mm

10 3/8

- spark plug is held by a magnet
- with extra big knurl for better grip
- wrench size: 14 mm
- profile: 12-point, 10 mm (3/8") drive
- length: 90 mm
- surface finish: satin chrome plated
- outside diameter: 18.5 mm



Item #
2446



## Spark Plug Sockets with Retaining Spring, 12-point | 10 mm (3/8") Drive

10  3/8

- with retaining spring
- for extra long spark plugs (e. g. for BMW)
- length: 100 mm
- surface finish: satin chrome plated



Item #	Description
2390	Spark Plug Socket, 12-point, with Retaining Spring   10 mm (3/8") Drive   14 mm
2391	Spark Plug Socket, 12-point, with Retaining Spring   10 mm (3/8") Drive   16 mm
2392	Spark Plug Socket, 12-point, with Retaining Spring   10 mm (3/8") Drive   21 mm



## Spark Plug Socket, 12-point | 10 mm (3/8") Drive | 14 mm

10  3/8

- wrench size: 14 mm
- profile: 12-point
- surface finish: satin chrome plated



## Spark Plug Socket, 12-point, extra long | 10 mm (3/8") Drive | 14 mm

10  3/8

- 12-point
- with retaining spring
- for extra long spark plugs (e. g. for BMW)
- length: 180 mm
- surface finish: satin chrome plated



## Spark Plug Sockets, 12-point, extra long | 10 mm (3/8") Drive

10  3/8

- with retainer spring for spark plugs
- knurled
- length: 250 mm
- surface finish: chrome plated



Item #	Description
2404	Spark Plug Socket, 12-point, extra long   10 mm (3/8") Drive   14 mm
2405	Spark Plug Socket, 12-point, extra long   10 mm (3/8") Drive   16 mm
2449	Spark Plug Socket, 12-point, extra long   10 mm (3/8") Drive   18 mm



## Spark Plug Socket with Magnet, extra long | 10 mm (3/8") Drive | 14 mm

10  3/8

- spark plug is held by a magnet
- with extra big knurl for better grip
- wrench size: 14 mm
- profile: 12-point
- length: 250 mm
- surface finish: satin chrome plated
- outside diameter: 18.5 mm

Item #
2447



## Spark Plug Socket, Hexagon | 12.5 mm (1/2") Drive | 14 mm

- wrench size: 14 mm
- profile: 12-point
- length: 65 mm
- surface finish: black burnished
- outside diameter: 20 mm

Item #
2400



## Spark Plug Sockets, Hexagon

- forged
- profile: hexagon
- surface finish: chrome plated



Item #	Description
2466	Spark Plug Socket, Hexagon   10 mm (3/8") Drive   16 mm
2464	Spark Plug Socket, Hexagon   10 mm (3/8") Drive   18 mm
2461	Spark Plug Socket, Hexagon   12.5 mm (1/2") Drive   20.8 mm



## Spark Plug Sockets, Hexagon

- forged
- rubber inlay
- surface finish: chrome plated, polished



Item #	Description
2471	Spark Plug Socket, Hexagon   10 mm (3/8") Drive   16 mm
2472	Spark Plug Socket, Hexagon   12.5 mm (1/2") Drive   16 mm
2470	Spark Plug Socket, Hexagon   12.5 mm (1/2") Drive   21 mm





## Spark Plug Sockets with Magnet, Hexagon

- forged
- surface finish: chrome plated
- magnetic inlay



Item #	Description
2469	Spark Plug Socket with Magnet, Hexagon   10 mm (3/8") Drive   16 mm
2468	Spark Plug Socket with Magnet, Hexagon   12.5 mm (1/2") Drive   16 mm
2463	Spark Plug Socket with Magnet, Hexagon   12.5 mm (1/2") Drive   21 mm



## Spark Plug Sockets with Rubber Mount, 12-point

- 12-point
- surface finish: satin chrome plated



Item #	Description
2385	Spark Plug Socket with Rubber mount, 12-point   12.5 mm (1/2") Drive   16 mm
2387	Spark Plug Socket with Rubber mount, 12-point   10 mm (3/8") Drive   18 mm
2386	Spark Plug Socket with Rubber mount, 12-point   12.5 mm (1/2") Drive   21 mm



## Spark Plug Sockets, Hexagon | 12,5 mm (1/2")

12.5 mm 1/2"

- surface finish: chrome plated
- retainer spring for spark plugs
- 12,5 mm (1/2") drive
- length: 65 mm



Item #	Description
2401	Spark Plug Socket, Hexagon   12.5 mm (1/2") Drive   16 mm
2402	Spark Plug Socket, Hexagon   12.5 mm (1/2") Drive   18 mm
2403	Spark Plug Socket, Hexagon   12.5 mm (1/2") Drive   21 mm



## Spark Plug Socket with Rubber mount, 12-point, long | 10 mm (3/8") | 16 mm

10 mm 3/8"

- wrench size: 16 mm
- profile: 12-point
- length: 90 mm
- surface finish: satin chrome plated



Item #
2448



## Spark Plug Socket | 3-step extendable | 10 mm (3/8") Drive | 20.8mm

10  3/8

- knurled
- 3-step adjustable
- socket size: 20.8 mm (13/16") hexagon
- with holding rubber
- surface finish: satin chrome plated
- length 137.5 - 157.5 - 197.5 mm



Item #
9154



## Spark Plug Pipe Wrench | for Toyota Prius | 16 x 20.6 mm

- pipe wrench with side hole for installation/removal of spark plugs
- sizes: 5/8" x 13/16" (16 x 20.6 mm)
- incl. rotary bar
- length: 300 mm
- surface finish: satin chrome plated



Item #
8772

## Spark Plug Connector Pliers | with Ring Tip Ø 13 mm | 330 mm

- long version especially for engines with deep seating of the spark plugs
- universal usage
- suitable for heat protection connectors
- even with the double joint mechanism the pliers require less space to open and grab
- 45° angled gripper sleeves
- secure handling because of milled inner profile
- very long plier arms
- for wide safety distance to the hot engine unit
- for damage-free removal and installation of spark plug connectors, even when the engine is warm
- handle type: PVC dipped



Item #
8662



## Spark Plug Connector Pliers | with Ring Tip Ø 16 mm | 200 mm

- ring tip with 16 mm internal diameter
- length: 200 mm
- surface finish: nickel plated, matt
- handle type: 2-component handles



Item #
1737





## Spark Plug Connector Pliers | 30° offset

- for deep seated spark plugs
- handle type: 2 component handles
- surface finish: nickel plated, matt



Item #	Description
1784	Spark Plug Pliers   200 mm   30° offset
1739	Spark Plug Pliers   290 mm   30° offset



## Spark Plug Socket Puller Set | 225 + 350 mm | 2 pcs.

- especially for metal coated spark plug sockets on VW engines
- prevents spark plug wires from damage during assembly

Item #
65260



## Ignition Coil Extractor for VAG | 4 pcs.

- for fast and safe assembly and removal of ignition coils with power output stage
- prevents damage to the coil and on the housing
- covers most VAG models
- surface finish: satin chrome plated

### scope of delivery:

- ignition pullers with T-handle, to be used as OEM T10095 A
  - suitable for: 6 cylinder & 5 cylinder injection engines, for following vehicles: VW Golf (> 1998), Passat (> 1997), Sharan (> 1996), Touareg (> 2003), Bora (> 1999), Eos 3.2L (> 2006), T5 3.2L (> 2004), Phaeton (> 2003), Audi A3 3.2L (> 2004), Audi TT 3.2L (1999-2007)
- ignition puller with T-handle, to be used as OEM T10166
  - suitable for: 8 cylinder & 12 cylinder injection engines, for following vehicles: VW Passat (> 1997), Phaeton (> 2003)
- ignition puller with T-handle, to be used as OEM T10094 A
  - suitable for: VW 1.2, 1.4, 1.6 l engines, for following vehicles: Fox, Lupo, Polo, Golf (Golf Plus > 2005), Beetle, Scirocco, Passat, Touran, T4, Skoda Fabia
- ignition puller with finger pull ring, to be used as OEM T40039
  - suitable for: 1.8, 2.0, 3.2, 3.6, 4.2, 5.2 l engines, for following vehicles: VW Polo, Golf, Passat, Scirocco, Eos, Phaeton, Touran, Tiguan und Audi A3, A4, A5, A6, A8, TT, Q5, Q7



Item #
68340

## Ignition Coil Extractor for VAG

- for dismantling of ignition coils, which are mounted directly on the spark plug
- suitable for e.g. following models as of year 2013: VW Golf - Audi A3 - Seat Leon - Škoda Octavia with FSI 1.2, 1.4, 2.0 engines with timing chain

Item #
9073



## Ignition Module Puller Set | for Opel | 2 pcs.

- for the easy and gentle removal of Opel ignition coils
- suitable for Opel 3- and 4- cylinder 1.0-1.2-1.4-1.6-1.8-2.0-2.2 l petrol direct engines
- installed in e. g. Agila-A, Astra-F, Astra-G, Astra-H, Astra-J, Calibra, Combo, Corsa-B, Corsa-C, Corsa-D, Frontera-A, Frontera-B, Insignia, Meriva-A, Meriva-B, Omega-B, Signum, Tigra-A, Tigra-B, Vectra-B, Vectra-C, Zafira-A, Zafira-B
- engine codes: LDD, LDE, LLU, LUH, LUJ, 2HO, A10XEP, A14NEL, A14NET, A14XER, X14NZ, X14SZ, X14XE, A16LET, A16XER, X16SZR, X16XE, X16XEL, A18XER, X18XE, X20SE, X20XEV, X22SE, X22XE, Y22SE, Z10XEP, Z12XE, Z12XEP, Z14XE, Z14XEL, Z14XEP, Z16LEL, Z16LER, Z16LET, Z16XE, Z16XER, Z16YNG, Z18XE, Z18XER, 20LEH, Z20LER, C22SEL

Item #
9421



## Ignition Module Puller | for VAG

- for the easy and gentle removal of VAG ignition coils
- suitable for VAG engines 1.0-1.2-1.4 TSI / TFSI -2.0 GTI built in:
  - VW Up -2011, Polo -2012, Golf -2013, Beetle -2014, Caddy -2015, Passat -2014, Tiguan -2015, Touran -2015, Sharan -2015
  - Audi A1 -2012, A3 -2013
  - Seat Mii -2011, Ibiza -2013, Leon -2013
  - Skoda Citigo -2011, Fabia -2014, Octavia -2013
- engine codes: CJZB, CJZA, CBZB, CJZD, CYVB, CTHD, CTHA, CZCA, CZDB, CZDA, CMBA, CPVA, CPCB, CHPACPTATA, CAXA, CAVA, CAPB, CAVD, CXSA, CDGA, CXEA, CTHD, CXSB, CMBA, CKMA, CAVE, CHHB, CHHA, CCZB, CPGA, CHZB, CHYB, CHYA, CHZB

Item #
9455



## Spark Plug Cleaning Brush | 140 mm

- brass wire
- length: 140 mm

Item #
3080



## Repair Kit for Spark Plug Threads | M14 x 1.25 mm | 16 pcs.

- 1 tap for M14 threads, HSS-G, 16 mm drive
- 5 taps inserts 11 mm, black finished
- 5 taps inserts 16 mm, black finished
- 5 taps inserts 19 mm, yellow, zinc plated

Item #	Description
149	Repair Kit for Spark Plug Threads   M14 x 1.25 mm   16 pcs.
149-1	Tap   M14 x 1,25   for BGS149
149-11	Threaded Sleeves   11 mm   M14 x 1.25   5 pcs.
149-16	Threaded Sleeves   16 mm   M14 x 1.25   5 pcs.
149-19	Threaded Sleeves   19 mm   M14 x 1.25   5 pcs.



## Repair Kits for Spark Plug Threads

- suitable for repair of spark plug threads
- contains special HSS taps with external hexagon drive and 4 threaded sleeves, lengths 9.5 - 11.5 - 12.7 and 19 mm



Item #	Description
167	Repair Kit for Spark Plug Threads   M8 x 1.0   5 pcs.
167-1	Thread Inserts   M8 x 1.0   for BGS 167   4 pcs.
165	Repair Kit for Spark Plug Threads   M10 x 1.00 mm   5 pcs.
165-1	Thread Inserts   M10 x 1.00   for BGS 165   4 pcs.
166	Repair Kit for Spark Plug Threads   M12 x 1.25 mm   5 pcs.
166-1	Thread Inserts   M12 x 1.25   for Item 166   4 pcs.
150	Repair Kit for Spark Plug Threads   M14 x 1.25 mm   5 pcs.
150-1	Thread Inserts   M14 x 1.25   for BGS 150   4 pcs.



## Repair Kit for Spark Plug Threads | M14 x 1.25 mm | 5 pcs.

- for repairing defective M14 spark plug threads
- HSS thread cutter - 17 mm drive
- threaded insert lengths: 9.7 - 11.0 - 13.0 - 19.1 mm
- collar thickness: 1.0 mm
- collar diameter: 17.9 mm
- material: forged carbon steel
- surface finish: black burnished

Item #
152



## Internal Spark Plug Rethreader

- for cleaning and regrooving of spark plug threads in the cylinder head
- length: 270 mm, also suitable for cylinder heads with deep-seated spark plugs
- 13 mm 6-pt. drive



Item #	Description
8375	Internal Spark Plug Rethreader   M12 x 1.25 mm
8376	Internal Spark Plug Rethreader   M14 x 1.25 mm

## Glow Plug Socket Set | 18 pcs.

6.3 1/4 10 3/8

- for disassembly and assembly of common type glow plugs and special PSG glow plugs with pressure sensor, OE number GM 55564163 / 55577419, Opel 1826354 / 1214061, VAG 03L905061D
- includes 5 protecting caps, for protecting the connector against pollution and electrostatic charging
- glow plug sockets with universal joint, length 72 mm, 10 mm (3/8") drive: 8 - 9 - 10 mm
- glow plug sockets with universal joint, length 60 mm, 6.3 mm (1/4") drive: 8 - 9 - 10 mm
- slotted glow plug sockets, sizes: 8 - 9 - 10 mm
- socket, fitting depth 8 mm, 50 mm
- glow plug socket with snap ring for PSG, , 12 mm
- extension bar 100 mm, 6.3 mm (1/4") drive
- universal joint, 6.33 mm (1/4") drive

Item #	CV
9026	



## Universal Joint Glow Plug Set, Hexagon | 10 mm (3/8") Drive | 8 - 16 mm | 6 pcs.

- screwed universal joint
- with retaining ball to hold the glow plugs
- fitting depth: 13 mm
- universal glow plug wrenches, 10 mm (3/8") drive, hexagon 8 - 9 - 10 - 12 - 14 - 16 mm
- length: 158 mm

Item #	CV
2986	





## Universal Joint Glow Plug Set, Hexagon | 10 mm (3/8") Drive

- 10 mm (3/8") drive, sizes 8 - 9 - 10 - 12 - 14 - 16 mm
- glow plugs are held by internal rubber ring
- with screwed universal joint, adjustable
- total length 75 mm / 80 mm (14 + 16 mm)



Item #	Description
2990	Universal Joint Glow Plug Set, Hexagon   10 mm (3/8") Drive   8-16 mm   6 pcs.
2980	Glow Plug Joint Socket, Hexagon   10 mm (3/8") Drive   8 mm
2981	Glow Plug Joint Socket, Hexagon   10 mm (3/8") Drive   9 mm
2982	Glow Plug Joint Socket, Hexagon   10 mm (3/8") Drive   10 mm
2983	Glow Plug Joint Socket, Hexagon   10 mm (3/8") Drive   12 mm
2984	Glow Plug Joint Socket, Hexagon   10 mm (3/8") Drive   14 mm
2985	Glow Plug Joint Socket, Hexagon   10 mm (3/8") Drive   16 mm



## Glow Plug Socket Set | especially for Fiat, Alfa, Lancia

- for removal of glow plugs with fixed connector cable, built into latest Fiat, Alfa and Lancia models
- slotted sockets, external hexagon drive, 8 - 9 - 10 mm

Item #
7191



## Torque Limited Glow Plug Sockets | 8 / 10 / 12 mm

10 3/8"

- length 120 mm
- 8 mm torque limited to 15 Nm
- 10 mm torque limited to 18 Nm
- 12 mm torque limited to 18 Nm

Item #
7195



## Glow Plug Socket for PSG | 12 mm

6.3 mm 1/4"

- allows damage-free disassembly / assembly of PSG glow plugs with pressure sensor
- with 5 protecting caps, to protect the connector against pollution and electrostatic charging
- suitable for VAG and Opel, e. g. PSG glow plugs with OE number GM 55564163 / 55577419, Opel 18 26 354 / 12 14 061, VAG 03L905 061 D
- 6.3 mm (1/4") drive

Item #
8961



## Double offset Ratchet Wrench for Glow Plugs | 8 x 12 mm

- for installing and removing glow plugs
- suitable for VW, Audi, Renault diesel engines
- for glow plugs between engine and diesel injector pump
- 12-point drive
- 8 mm side for electrical connection
- 12 mm for glow plugs
- length: 300 mm

Item #
8264



## Twist Off Sockets for Glow Plug Electrodes | 6.3 mm (1/4") Drive

6.3 mm 1/4"

- for gripping the electrodes together with glow plug removal and thread repair set BGS 8297
- includes twist sockets 2.6 - 3.2 - 3.5 - 4.5 - 6.5 - 8.25 mm



Item #	Description
5290	Twist Off Socket for Glow Plug Electrodes   6.3 mm (1/4") Drive   6 pcs.
5290-2.6	Twist Off Socket for Glow Plug Electrode   6.3 mm (1/4") Drive   2.6 mm
5290-3.2	Twist Off Socket for Glow Plug Electrode   6.3 mm (1/4") Drive   3.2 mm
5290-4.5	Twist Off Socket for Glow Plug Electrode   6.3 mm (1/4") Drive   4.5 mm
5290-6.5	Twist Off Socket for Glow Plug Electrode   6.3 mm (1/4") Drive   6.5 mm
5290-8.25	Twist Off Socket for Glow Plug Electrode   6.3 mm (1/4") Drive   8.25 mm



## Glow Plug Removal Tool

- for unscrewing and disassembly of glow plugs in the cylinder head, especially for glow plugs that are stuck because of carbonization remains
- cylinder does not need to be removed any more
- fits all Mercedes-Benz 10 mm glow plugs, engine codes 611-612-613 etc., especially CDI engines

Item #
65601





## Glow Plug Socket Pliers

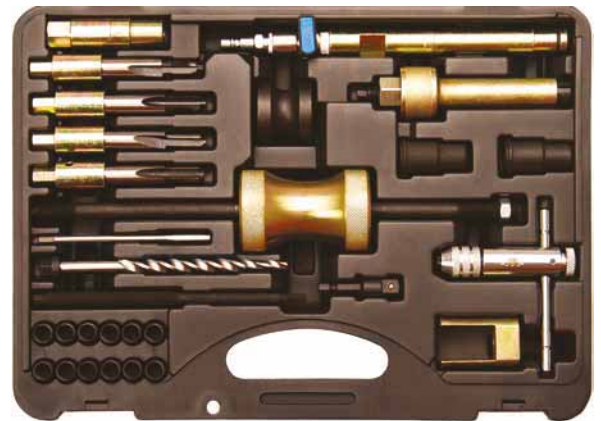
- for assembling and disassembling of glow plugs



Item #	Description
66155	Glow Plug Socket Pliers   straight
66157	Glow Plug Socket Pliers   90° bent

## Glow Plug Removal Tool Set | M10 x 1.0

- ensures the correct removal of burned-in, corroded or broken-off glow plugs
- allows repairing of the glow plug retaining thread without removing the cylinder head
- defective original thread M10 x 1 is repaired by insertion of a new threaded sleeve
- suitable for Mercedes-Benz CDI-engines OM 611, 612, 613, 628, 646 (not EVO), 647, 648
- puller and sliding hammer for removing of stuck and broken glow plugs
- reamers for reaming of the defective thread
- tap M10 x 1 and M12 x 1
- centering sleeve for reamers and taps
- special step drills and taps for removal of broken glow plugs
- 12 thread repair sleeves M12 x 1 to M10 x 1
- compressed air adaptor



Item #
8699

## Repair Kit for Glow Plug Threads | for Audi, VW | 28 pcs.

- for quick and professional drilling out damaged or torn-off glow plugs without removing the cylinder head
- allows re-cutting or repairing of the glow plug thread and cleaning of the electrode bore
- exact depth and drilling angle are reached using guide sleeves
- suitable for M10 x 1 glow plug thread bores, e. g. on VW Passat, Audi with TDI engines 2.5, 2.7, 3.0 V6 with engine codes AFB, AKE, AKN, ASB, AYM, BAU, BCZ, BDG, BDH, BFC, BKN, BKS, BMK, BNG, BSG, BUN, BUG
- cover plate for intake ports
- compressed air adaptor for injector bore
- 9.1 mm drill for M10 x 1
- 11.1 mm drill for M12 x 1
- tap with guide sleeve for M10 x 1 threads
- tap with guide sleeve for M12 x 1 threads
- 10 threaded inserts for M10 x 1 with external thread M12 x 1
- taps M6 x 1.25 mm
- extraction tool
- 2 reamers 4.8 mm, long and short type
- reamer 5.8 mm long type
- guide sleeves, Ø 17.5 mm OD - 38 mm length, inside Ø 9 mm
- guide sleeves, Ø 17.5 mm OD - 38 mm length, inside Ø 13 mm
- guide sleeves, Ø 17.5 mm OD - 63 mm length, inside Ø 13 mm
- 2.4 - 5.5 mm tapping holder 240 mm long with 6.3 mm (1/4") drive
- 3 extractor electrodes for 2.5 - 3.5 - 4 mm

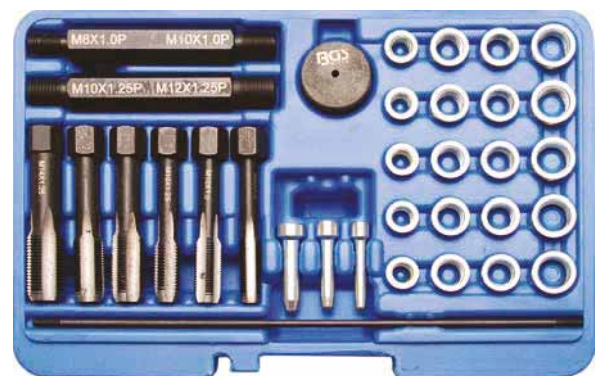


Item #
8722

## Repair Set for Glow Plug Threads | 33 pcs.

- for repairing the glow plug threads in the cylinder head
- suitable for glow plug threads in sizes: M8 x 1.0 mm - M10 x 1.0 mm - M10 x 1.25 mm - M12 x 1.25 mm
- 6 taps for trimming the original thread or cutting the thread for the new thread sleeves: M8 x 1.0 mm - M10 x 1.0 mm - M10 x 1.25 mm - M12 x 1.0 mm - M12 x 1.25 mm - M14 x 1.25 mm
- 20 thread repair coils, 5 pieces each: M8 x 1.0 mm - M10 x 1.0 mm - M10 x 1.25 mm - M12 x 1.25 mm
- 2 coil drivers
- 3 centering pieces
- 1 guide pin

Item #
65631



## Glow Plug Repair Tool Kit | 3 pcs.

- for removal of pollution from the glow plug channel and for extraction of stuck glow plugs
- perfect for Mercedes-Benz CDI engines
- tapered reamer M10 x 1.00 (4, 5 and 6 cylinder engines OM 611, 612, 613 and Smart CDI R660)
- reamer M12 x 1.25 (4-valve engines OM 604, 605, 606)
- glow plug extractor for glow plug threads 10 (OM 611, 612, 613)

Item #
65630



## Glow Plug Removal Tool Kit | M9 | 9 pcs.

- allows removing of defective and broken M9 x 1.0 glow plugs
- suitable for e.g. Fiat engines
- special step drill with depth stop
- tap M9 x 1.0
- tap 1/4" x 20 UNC
- twist sockets 2.6 - 4.5 - 8.25 mm
- tool holder for taps
- pull-out unit with hardened spindle

Item #
8657



## Glow Plug Bore Reamer Set | 4 pcs.

- for cleaning / removing the glow plug bore
  - cleaning is recommended before inserting the new glow plug
  - suitable for a variety of engines from Audi, Alfa Romeo, BMW, Fiat, Nissan, Opel, Peugeot, Renault, Toyota, etc.
  - contains 4 reamers in following sizes:
    - M10 x 1.00, length 107 mm
    - M10 x 1.25, length 137 mm
    - M12 x 1.25, length 59 mm
    - M12 x 1.25, length 94 mm
- material: chrome molybdenum, titanium coated



Item #	Description
136	Glow Plug Bore Reamer Set   4 pcs.
138-1	Glow Plug Reamer M12 x 59 mm
138-2	Glow Plug Reamer M12 x 94 mm
138-3	Glow Plug Reamer M10 x 107 mm



## Glow Plug Electrodes Removal Tool Set | M8 / M10

- for dismantling glow plug electrodes
- suitable for glow plug threads M8 x 1.0 - M10 x 1.0 - M10 x 1.25
- extractor spindle M4 x 0.7 x 100 mm
- extractor spindle M4 x 0.7 x 100 mm
- extractor spindle M3 x 0.5 x 100 mm
- twist drill 3.3 x 140 mm
- twist drill 2.5 x 120 mm
- tap M4 x 0.7
- tap M3 x 0.5
- spindle guide M10 x 1.25
- spindle guide M10 x 1
- spindle guide M8 x 1
- guide bolt M10 x 1.25 (inner diameter 3.5 mm)
- guide bolt M10 x 1 (inner diameter 3.5 mm)
- guide bolt M8 x 1 (inner diameter 3.5 mm)
- guide bolt M8 x 1 (inner diameter 2.5 mm)
- guide bolt M8 x 1 (inner diameter 2.5 mm)
- guide bolt M10 x 1 (inner diameter 4.5 mm)
- guide bolt M10 x 1.25 (inner diameter 4.5 mm)
- guide bolt M10 x 1.0 (inner diameter 3.5 mm)
- guide bolt M10 x 1.25 (inner diameter 3.5 mm)
- spindle nut M4 x 0.7
- spindle nut M4 x 0.7
- spindle nut M3 x 0.5



Item #	Description
8698	Glow Plug Electrodes Removal Tool Set   M8 / M10
8698-1	Twist Drill   long   for BGS 8698   2.5 x 120 mm
8698-2	Twist Drill   long   for BGS 8698   3.3 x 140mm
8698-3	Tap   long   for BGS 8698   M3 x 0.5
8698-4	Tap   long   for BGS 8698   M4 x 0.7

## Glow Plug Bore Reamer Set

- cleaning is recommended before installation of new glow plugs
- suitable for glow plug threads M8 - M10 - M12
- 145 mm drive shaft, knurled, for hand use
- can also be used with 14 mm hexagon socket or 6.3 mm (1/4") external square
- material: CR-MO + S45C steel
- 4 adaptors
- 3 reamers

Item #
8447





## Glow Plug Removal and Thread Repair Set | M8, M10 | 17 pcs.

- simplifies the assembly and disassembly and professional repair of glow plug threads
- extractor for fixed glow plugs
- step drills to drill out damaged glow plugs 7 x 5.5 mm and 9 x 5.5 mm
- taps for regrooving of the glow plug threads: M8 x 1.0 mm - M10 x 1.0 mm - 6.3 mm (1/4") x 28UNF
- ratchet tap holder
- E-type socket E10



Item #	Description
8297	Glow Plug Removal and Thread Repair Set   M8, M10   17 pcs.
8297-1	Step Drill   5.5 - 7 mm   for BGS 8297
8297-2	Step Drill   5.5 - 9 mm   for BGS 8297
8297-3	Threaded Studs   for BGS 8297
8297-4	Guide Sleeve   40 x 6 x 3.5 mm



## Repair Set for Glow Plug Threads

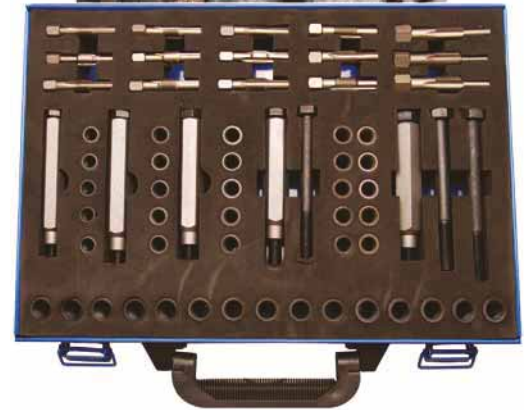
- for repairing the glow plug mounting thread in the cylinder head
- reamer for reaming the original thread
- taps for threaded sleeves
- taps for trimming the original thread
- assembly tools for inserting the threaded sleeves
- BGS 8647
  - 5 threaded sleeves M8 x 1.0 (11 mm long)
- BGS 8648
  - 5 threaded sleeves M9 x 1.0 (11 mm long)
- BGS 8649
  - 5 threaded sleeves M10 x 1.25 (12 mm long)
- BGS 8650
  - 5 threaded sleeves M10 x 1.0 (12 mm long)
  - 5 threaded sleeves M10 x 1.0 (19 mm long)
- BGS 8651
  - 5 threaded sleeves M12 x 1.25 (12 mm long)
  - 5 threaded sleeves M12 x 1.25 (19 mm long)
  - 5 threaded sleeves M12 x 1.25 (26 mm long)

Item #	Description
8647	Repair Kit for Glow Plug Threads   M8 x 1.0
8647-1	Thread Sleeve   11 mm   M8 x 1.0
8648	Repair Kit for Glow Plug Threads   M9 x 1.0
8648-1	Thread Sleeve   11 mm   M9 x 1.0
8649	Repair Kit for Glow Plug Threads   M10 x 1.25
8649-1	Thread Sleeve   12 mm   M10 x 1.25
8650	Repair Kit for Glow Plug Threads   M10 x 1.0
8650-1	Thread Sleeve   12 mm   M10 x 1.0
8650-2	Thread Sleeve   19 mm   M10 x 1.0
8651	Repair Kit for Glow Plug Threads   M12 x 1.25
8651-1	Thread Sleeve   12 mm   M12 x 1.25
8651-2	Thread Sleeve   19 mm   M12 x 1.25
8651-3	Thread Sleeve   26 mm   M12 x 1.25



## Repair Kit for Glow Plug Threads | M8 - M9 - M10 - M12

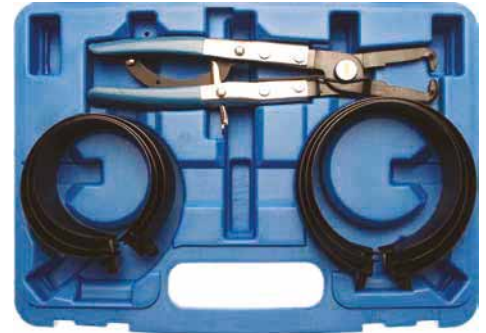
- for repairing the glow plug mounting thread in the cylinder head
- 5 reamers for reaming the original thread M8 x 1.0 mm - M9 x 1.0 mm - M10 x 1.0 mm - M10 x 1.25 mm - M12 x 1.25 mm
- 5 taps for threaded sleeves M8 x 1.0 mm - M9 x 1.0 mm - M10 x 1.0 mm - M10 x 1.25 mm - M12 x 1.25 mm
- 5 taps for trimming the original thread M8 x 1.0 mm - M9 x 1.0 mm - M10 x 1.0 mm - M10 x 1.25 mm - M12 x 1.25 mm
- 5 assembly tools for inserting the threaded sleeves
- 5 threaded sleeves M8 x 1.0 mm (11 mm long)
- 5 threaded sleeves M9 x 1.0 mm (11 mm long)
- 5 threaded sleeves M10 x 1.25 mm (12 mm long)
- 5 threaded sleeves M10 x 1.0 mm (12 mm long)
- 5 threaded sleeves M10 x 1.0 mm (19 mm long)
- 5 threaded sleeves M12 x 1.25 mm (12 mm long)
- 5 threaded sleeves M12 x 1.25 mm (19 mm long)
- 5 threaded sleeves M12 x 1.25 mm (26 mm long)



Item #
8653

## Piston Ring Compressor Set | 7 pcs.

- incl. self-adjusting ratcheting piston ring compressor pliers and 6 exchangeable compressors 73 - 79 mm, 79 - 86 mm, 86 - 92 mm, 92 - 98 mm, 98 - 105 mm, 105 - 111 mm
- tension band height: 40 mm



Item #
1874

## Piston Ring Compressor

- spring loaded construction
- for damage-free assembly and disassembly of piston rings



Item #	Description
1887	Piston Ring Compressor   60 - 90 mm
1888	Piston Ring Compressor   57 - 125 mm
1889	Piston Ring Compressor   100 - 160 mm



## Piston Ring Pliers

- enables non-destructive disassembly and assembly and prevents uncontrolled movement of the piston rings



Item #	Description
8374	Piston Ring Pliers   40 - 100 mm
8370	Piston Ring Pliers   80 - 120 mm
8371	Piston Ring Pliers   110 - 160 mm



## Piston Ring Pliers | 205 mm

- allows easy and damage-free assembly of piston rings
- head made of hardened steel
- handle made of profile steel, spring mechanism

Item #
66103



## Brake Cylinder Honing Tools

6.3 1/4

- 6.3 mm (1/4") drive shaft
- no cuts in the cylinder due to adjustable pressure
- jaws with grain size # 220  
(# 180 for item 1157)



Item #	Description
1155	Honing Tool, 2-arm   Ø 38 - 60 mm   30 mm Jaws
1145	Replacement Jaws for Honing Tool BGS 1155   Jaws 30 mm   K 220   2 pcs.
1156	Honing Tool, 3-arm   Ø 58 - 80 mm   50 mm Jaws
1146	Replacement Jaws for Honing Tool BGS 1156   Jaws 50 mm   K 220   3 pcs.
1157	Honing Tool, 3-arm   Ø 58 - 168 mm   100 mm Jaws
1258	Replacement Jaws for Honing Tool, BGS 1157   Jaws 75 mm   K 280   3 pcs.
1147	Replacement Jaws for Honing Tool BGS 1157   Jaws 100 mm   K 180   3 pcs.
1257	Replacement Jaws for Honing Tool BGS 1157   Jaws 100 mm   K 280   3 pcs.



## Hand Pump | 200 ml

- suitable for engine, transmission, rear axle oil and coolant
- transparent housing for checking fluids
- piston with double sealing rings
- the hand pump is also suitable for brake fluid by replacing the installed sealing rings with BGS 4067-1
- housing material: plastic
- tank capacity: 0.2 l

Item #	Description
4067	Hand Pump   200 ml
4067-1	Fluororubber Seals for BGS 4067



## Hand Pump | 1500 ml

- suitable for engine, transmission, rear axle oil and coolant
- transparent housing for checking fluids
- piston with double sealing rings
- the hand pump is also suitable for brake fluid by replacing the installed sealing rings with BGS 4068-1
- housing material: plastic
- tank capacity: 1.5 l

Item #	Description
4068	Hand Pump   1500 ml
4068-1	Fluororubber Seals for BGS 4068



## Fluid Extractor | 4 l

- for extracting all types of engine, transmission and lubricating oils, also suitable for low viscosity fluids such as water
- useable for cars, motorcycles, marine engines and industrial machinery
- manually operated by hand pump, independent of compressed air etc.
- scale with 0.5-l increments



Item #
3156

## Suction Gun | 500 cm<sup>3</sup>

- can also be used for gearbox and engine oil
- includes 2 transparent hoses for suction/drain (1.20 m each)
- overall length (without hose): 330 mm
- diameter 58 mm
- hose inner diameter 9.5 mm
- suitable for oil and antifreeze

Item #
3064



## Multi Purpose Pump

- for filling and refilling liquids out of the multi purpose pump, not suitable for suction
- suitable for oil, brake fluid and cleaning fluid
- overall size 315 mm, capacity 1000 ml
- the pump is not suitable for gasoline and other easy flammable liquids



Item #
8356

## Emergency Pump / Transfer Pump

- for transfilling e.g. oil, water, antifreeze, etc.
- astonishingly effective
- hose length approx. 1.75 m
- hose inner diameter 9 mm
- not suitable for fuel and other flammable fluids



Item #
4064



## Hose Pump

- the flexible hose pump is a pump for decanting water, diesel fuel and cleaning agents as well as other types of chemicals
- no manual suction necessary, which means no danger of swallowing unpleasant smelling or tasting liquids.
- internal diameter: 12 mm, external diameter: 17 mm
- 180 cm hose length
- not suitable for gasoline and other highly flammable liquids

**just follow these three easy steps:**

1. Place the suction head in the liquid which should be on a higher level and place the other end of the tube in a container below it.
2. Move the suction head quickly up and down a few times.
3. The liquid will automatically begin to flow through the tube.



Item #
4066



## Filling Tube for Urea (AUS32)

- ideal for refilling urea additives
- allows a clean refill, no contamination or odour in the interior
- can be used in passenger cars and vans
- suitable for 5 and 10 litre canisters
- to be used as VAG 000012499
- hose length: 1 m

Item #
9329



## Diesel Service Filling Pump

- for filling the fuel system
- is required when renewing diesel filters and other components of the diesel injection system
- prevents defects of high pressure pumps (CDI) which frequently occur when renewing filters without manual filling

Item #
4063



## Multi Purpose Funnel | Metal Version | Ø 145 mm

- with flexible neck and sieve
- filling pipe length 300 mm
- material: metal
- funnel diameter 145 mm

Item #
8030



## Multi Purpose Funnel | Ø 160 mm

- suitable for oil, anti freeze, diesel etc.
- closes by sliding a ring and by closing a plug at the end of the hose
- length: 400 mm
- filling hose diameter 12.5 mm
- funnel diameter 160 mm

Item #
8406



## Flexible Funnel | 220 - 120 mm

- particularly useful in poorly accessible oil filling openings
- malleable



Item #
8446-1

## Fluid Flasks with flexible spout and lid

- material: HDPE
- suitable for brake fluid, battery fluid and non-acidic liquids
- incl. flexible nozzle and lockable cask cover
- with threaded nozzle for fillers
- colour: white / transparent



Item #	Description
9938	Fluid Flask with flexible spout and lid   1 l
9939	Fluid Flask with flexible spout and lid   2 l
9943	Fluid Flask with flexible spout and lid   3 l
9944	Fluid Flask with flexible spout and lid   5 l

## Fluid Flasks

- acid, oil and alkali resistant
- with threaded nozzle for fillers  
(filler not included)



Item #	Description
8568	Fluid FLask   1 l
9983	Fluid FLask   2 l
9984	Fluid FLask   4 l
8569	Fluid FLask   5 l

## Pouring Spout for Oil Cans | for BGS 8568, 8569, 9983, 9984

- flexible
- facilitates filling



Item #
9988

## Cooling Water Can | with long Filler Neck | 5 l

- small opening, especially suitable for filling cooling systems and windscreen washer systems



Item #
9164

## Measuring Cup Set | 3 pcs.

- 500 ml measuring tube with 50 ml bar scale
- 1000 ml measuring tube with 50 ml bar scale
- 2000 ml measuring tube with 100 ml bar scale



Item #
9946

## Engine Stands

- rotates 360° and can be locked in 8 positions
- ball bearing castors
- 4 turnable plate mounting points, adjustable
- turnable plate allows easy turning of the engine



Item #	Description
9231	Engine Stand   450 kg
9230	Engine Stand XL   560 kg



## Heavy Duty Gearbox Lifter | 500 kg

- for assembling and disassembling engines, gearboxes and rear axles
- adjustable head plate, 60 mm to the side and from -10° to 35° in inclination, therefore especially suitable for mounting of automatic transmissions
- height approx. 880 - 1770 mm
- 4 ball bearing caster wheels
- heavy duty construction
- fast lifting due to hydraulic foot pedal
- weight: 80 kg



Item #	Description
9233	Heavy Duty Gearbox Lifter   500 kg
9233-1	Replacement Wheel for BGS 9233
9233-2	Hydraulic Cylinder for BGS 9233

## Gearbox Lifter | 600 kg

- for assembling and disassembling of gearboxes, rear axles and suspension parts
- swivel saddle
- height approx. 1130 - 1970 mm
- 4 ball bearing caster wheels
- heavy duty construction
- 840 mm stroke
- fast lifting due to hydraulic foot pedal
- weight: 34 kg



Item #
9239



## Engine Crane | 1000 Kg

- engine crane for lifting engines and other heavy loads
- lifting arm can be adjusted in 4 positions of different length
- technical data:
  - capacity position 1: 1000 kg
  - capacity position 2: 750 kg
  - capacity position 3: 500 kg
  - capacity position 4: 250 kg
  - maximum height in position 1: 2019 mm
  - maximum height in position 4: 2248 mm
  - length of the lifting arm in position 1: 902 mm
  - length of the lifting arm in position 2: 1003 mm
  - length of the lifting arm in position 3: 1080 mm
  - length of the lifting arm in position 4: 1169 mm
  - frame length: 1257 mm
  - overall height: 1400 mm
- foldable



Item #	Description
9245	Engine Crane   1000 Kg
9245-1	Hydraulic Cylinder for Engine Crane BGS 9245



## Engine Crane | Double Piston Type | 2000 kg

- especially suitable for disassembly / assembly of heavy drive units
- folding mechanism for space-saving storage
- capacity up to 2000 kg
- lifting height: 25 - 2300 mm
- dimensions: (L x W x H) 1800 x 1040 x 1568 mm
- dimensions, folded: (L x W x H) 850 x 800 x 1645 mm
- weight approx. 99 kg



Item #
9249



## Engine Support | 750 - 1450 mm

- for assembling and disassembling of engine and gearbox
- strong square-type tube
- slot for flexible width adjustment
- hooks with 16 mm threaded rods
- ball bearing wheels
- rubber pads protect fenders
- 9235 comes with two chains, 9234 with one (each chain 90 cm long)

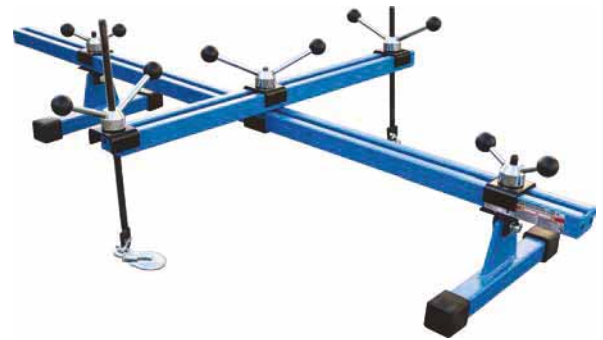


Item #	Description
9234	Engine Support   750 - 1450 mm   300 kg
9235	Engine Support XL   750 - 1450 mm   500 kg
9234-1	Spinner Handle with Internal Thread for BGS 9234, 9235
9234-2	Spinner Handle with External Screw Thread for BGS 9234



## Engine Support with Crossbeam | 400 - 1400 mm | 500 kg

- for disassembling and assembling of gearboxes, etc.
- sturdy construction from square steel tube
- very wide adjustment range in length and width
- rubberised support feet prevent slipping as well as damage to the surface
- maximum load capacity: 500 kg
- main beam width: 400 to 1,400 mm
- cross beam width: 140 to 810 mm
- incl. 2 spindles with hook
- length: 410 mm
- width: 320 mm



Item #
9254

## Engine Mounting Balancer

- for balancing engines when lifting with an engine crane
- allows a precise alignment when installing the engine on gearbox
- capacity: 350 kg
- dimensions: 280 x 390 mm
- adjustment: +/- 160 mm
- chain length: 2x 350 mm (incl. mounting bracket)
- crank length: 100 mm



Item #
8492

## Universal Engine Support with 2- and 3-point Receptacles | 315 kg

- 2- and 3-point support on car wing edges and hood latch
- support is provided on the fender screw edges and, if necessary, on the radiator support
- wide area of application due to adjustable suspension points
- incl. 2 pendant ropes
- cross beams width: 1000 - 1550 mm
- longitudinal beam length: 24-fold adjustable: 90, 120, 150, 180, 210, 240, 270, 300, 330, 360, 390, 420, 450, 480, 510, 540, 570, 600, 630, 660, 690, 720, 750, 780 mm
- supporting foot height (longitudinal beam): 100 - 130 - 160 - 185 - 210 - 240 mm
- supporting foot height (cross beams): 105 mm
- capacity: 315 kg



Item #
8515

## Engine / Gearbox Support | 690 - 1050 mm

- secure support of engine or gearbox during assembly
- is required for e.g. disassembly of the engine mount, timing belt and replacement of clutch
- sturdy square tube construction
- feet and support plate are height adjustable and lockable
- rotatable retaining hooks, adjustable in height by hand wheel
- slidable and fixable crosspiece and retaining hook
- support plate with non-slip rubber pad
- especially suitable for large fender angle, where a mounting of engine bridge is very difficult
- suitable for many common vehicles
- length of the longitudinal beam: 690 up to 1050 mm
- max. retaining hook distance: 500 mm
- crossbeam supporting foot distance: 450 mm



Item #
8606

## Engine Support with 4-point support | 510 - 845 mm | 315 kg

- especially suitable for vehicles with auxiliary frame
- prevents undesired twisting and tilting of the engine
- 2 positionable longitudinal beams for support on front panel
- rubber protected front panel support feet
- positionable 2 hook support
- can also be used without longitudinal beams
- including two chains and shackles, length 530 mm
- variable width, up to 1500 mm
- variable length of longitudinal beams 510 - 845 mm
- lifting spindle length 340 mm
- capacity: 315 kg
- max. width 1500 mm



Item #
9237

## Windshield Holder / Multi-Purpose Table

- ideal for storage of windshields and car body parts, e.g. when removing or applying adhesive materials, etc.
- heavy duty construction
- adjustable and lockable in width and height, therefore can be stored in a small area
- 4 rolling wheels
- padded seating surface
- width: 220 - 1350 mm
- height: 840 - 1250 mm
- depth: 870 mm
- capacity: 100 kg



Item #
9238

## Working Platform | foldable

- with one step
- platform area: 760 x 300 mm
- platform height: 495 mm
- low weight aluminum construction
- folded width: 413 mm
- height assembled: 165 mm
- length in hinged position: 790 mm
- weight: 3.6 kg
- base (L x W) 1090 x 415 mm
- max. capacity: 100 kg



Item #
8366

## Hydraulic Double Piston Foot Pump

- suitable for all BGS hydraulic tools
- two step pressure rating:
  - 1. step: 13.8 bar (200 psi)
  - 2. step: 700 bar (10165 psi)
- oil capacity: 700 ml
- output per stroke
  - 1. step 13.0 ml
  - 2. step 2.8 ml
- oil port thread: 10 mm (3/8") NPT
- hose length 2.5 m



Item #
1613

## Air Hydraulic Pump | 689 bar / 10,000 psi

- suitable for all BGS hydraulic tools
- compressed air supply: 6.2 - 9.6 bar
- compressed air connection: 6.3 mm (1/4") x 18 NPT
- pressure oil connection: 10 mm (3/8") x 18 NPT
- max. output pressure: 689 bar (10000 psi)
- oil tank capacity: 2.2 l
- usable oil capacity: 1.6 l
- weight: 8.5 kg
- dimensions: 261 x 135 x 185 mm



Item #
1609

## Hydraulic Hose with Coupling | 1.8 m

- for use with e. g. BGS 1609
- max pressure: 689 bar (10000 psi)
- length: 1.8 m



Item #
1611

## Hydraulic Adaptor 10 mm (3/8") NPT x 13/16" x 16 UNF

- quick-action coupling for hydraulics



Item #
1613-1

## Aluminium Caulking Guns

- thick wall type
- BGS 3511: for 220 mm cartridges
- BGS 3513: for 380 mm cartridges and 600 ml bags



Item #	Description
3511	Aluminium Caulking Gun, for Cartridges   220 mm
3513	Aluminium Caulking Gun, for Cartridges   380 mm



## Spare Nozzle for Standard Cartridges

- suitable for all standard cartridges
- consisting of tip and pressure plate

Item #
3512



## Skeleton Type Caulking Gun | heavy duty

- extra heavy and solid type
- length: 300 mm
- weight: 460 g

Item #
3510



## Lever Type Grease Gun

- supplied complete with delivery tube
- for 400 cm<sup>3</sup> / 220 mm cartridges
- optional accessories: flexible delivery tube BGS 3066, mouthpiece BGS 3143
- length: 300 mm

Item #	Description
3065	Lever Type Grease Gun
3065-1	Nozzle Pipe for BGS 3065



## Single Handed Grease Gun | 500 cm<sup>3</sup>

- for use with standard cartridges 220 mm, 400 g and bulk grease
- incl. delivery tube and mouth piece
- optional accessories: flexible delivery tube BGS 3066
- max. container size 500 cm<sup>3</sup>

Item #
3140



## Mini Grease Gun | 125 cm<sup>3</sup>

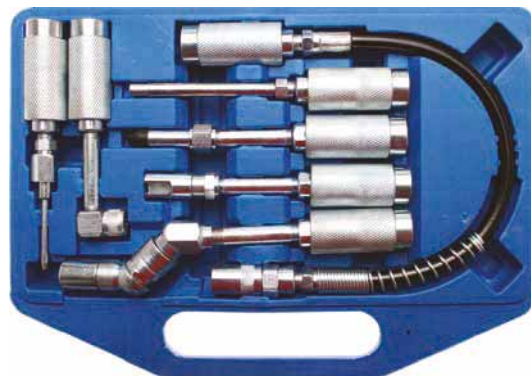
- easy to use with one hand
- load capacity: 125 cm<sup>3</sup>
- exchangeable delivery tube
- optional: flexible delivery tube BGS 3066

Item #
3141



## Grease Gun Accessory Kit | 7 pcs.

- 90° lube tip
- straight extension
- 300 mm hose extension
- 90° adaptor
- 360° adaptor
- rubber-tipped nozzle
- needle nozzle
- for grease gun no. 3065, 3140, 3141, 3175, 3236



Item #
3142

## Delivery Tip for Grease Gun

- can be used with air hose
- thread 1/8" PT

Item #
3143



## Flexible Delivery Tube for Grease Gun | 300 mm

- for grease gun nr. 3065, 3140, 3141, 3236
- mounting thread: NPT 1/8" x 27

Item #
3066



## Mini Grease Gun with 100 g Lithium Grease (1 Tube)

- for the lubrication of beaters and spindles
- ideal for bike maintenance, for lubricating pedals, hubs, etc.
- suitable for squeeze grease tubes with M14x1.5 thread
- max. pressure: up to 68 bar
- output: approx. 0.45 g per stroke
- incl. 100 g grease tube
- temperature range: 10°C - 120°C
- dropping point: 180°C



Item #	Description
9311	Mini Grease Gun with 100 g Lithium Grease (1 Tube)
9312	Lithium Grease for Grease Gun BGS 9311   2 Tubes



## Precision Oiler

- fine control tip
- protection cap
- special „drop protect" pump head
- aluminium body
- for various applications: automotive area, oil, atomizing, model-railway, locks, sewing machine hinge, power machines and many other mechanical uses

Item #
9985



## Plastic Oil Can | 250 ml

- good handling
- easy to dose oil volume
- very useful when cutting threads

Item #
8441



## LED Pen with 6 LEDs

- 6 bright LEDs
- particularly useful due to small dimensions
- fits in any pocket and is therefore always at hand
- with clip-holder
- LED 5 mm, 6 pcs.
- battery 1.5V AAA, 3 pcs. included
- length: 158 mm
- width: 33.5 mm
- height: 16.5 mm

Item #
8491



## Aluminium LED Pen with 9 LEDs

- aluminium housing
- 9 ultra-strong LED
- with clip-holder
- magnet in swiveling clip
- battery: 1.5V AAA, 3 pieces
- length: 158 mm
- width: 22 mm
- height: 25 mm

Item #
8493



## Extendable LED Flashlight with Magnetic Pick Up Tool | "2-IN-1"

- 170 to 545 mm extendable telescopic magnetic lifter with flexible gooseneck for lifting metal objects like screws, tools, coins etc.
- 3 energy-efficient, durable and bright LEDs
- aluminum housing with mounting clip
- magnetic holding force 1 kg
- diameter 25 mm
- includes 4 LR44 batteries



Item #
9303



## LED Multi-Function Flashlight | 3 W

- highpower LED lamp
- brightness 160 lm
- illumination time 3 h
- waterproof IP63
- housing made of anodised aluminium
- Li-Ion battery 3.7 V / 2000 mAh (type 18650)
- AC charger input 110 - 240 V / 50 Hz, suitable for battery 3.7 V / 2000 mAh (type 18650)
- length: 149 mm
- width: 39 mm
- height: 39 mm



Item #
9775



## COB LED Head Lamp

- very wide and bright illumination
- lamp angle adjustable up to 60°
- head circumference: 50 - 70 cm
- lamp: ultra bright 3 W COB LED
- brightness 120 lm
- battery: 3x 1.5V AAA
- length: 60 mm
- width: 50 mm
- height: 40 mm
- material: abs plastic
- weight: 50 g



Item #
85314



## Workshop Hand Lamp | 11 W | 220 V

- very rugged hand lamp with 2 neon tubes
- ensures glare-free working
- protection class IP54, protected against splashing water
- equipped with 5 m neoprene cable and metal hook

Item #
9704



## Cordless Workshop Flashlight | COB-LED | 3W

- ensures equal illumination
- helpful for maintenance, inspection and repair work
- hanging hook
- COB LED
- 250 lumen
- charging time: approx. 4 - 5 h
- charger input: 100 - 240V AC 50 Hz
- charger output: 5V DC 500 mA
- accumulator power (electric charge): 2.2 Ah
- accumulator type: Li-Ion
- autonomy 3 h

Item #
85301



## Cordless Handheld Lamp | COB-LED | waterproof | 5W

- COB LED technology, dimmable up to 50%
- 3 to 4 hours of continuous operation with one charge
- can also be used with connected charging adaptor
- LED type: COB LED 5 Watt
- LED brightness: 500 / 300 lm
- LED colour temperature: 6500K
- accumulator type: 2 pcs. 18650 lithium-ion 4000 mAh
- 2-colour LED for battery capacity and charge control
- with hooks
- impact resistant
- working temperature: -20 up to +60°C
- incl. 230V charger and charging cable
- dimensions (without hooks): 315 x 56 x 41.5 mm
- weight: 0.3 kg
- accumulator power (electric charge): 4.0 Ah
- accumulator type: Li-Ion
- autonomy: 3-4 h
- protection class: IP 67

Item #
85322





## Cordless Bendy Lamp | COB-LED | 5W

- COB LED technology, dimmable up to 50%
- additional SMD LED light in the lamp head
- lamp head 170° foldable and 270° rotatable
- 4 to 8 hours of continuous operation with one charge
- with hook & magnet in lamp bottom
- can also be used with connected charging adaptor
- LED type: 5 SMD + 1x 5W COB
- LED brightness: 500 / 300 lm
- LED colour temperature: 6500K
- accumulator type: 2 pcs. 18650 lithium-ion 4000 mAh
- 2-colour LED for battery capacity and charge control
- impact resistant
- working temperature: -20 up to +60°C
- incl. 230V charger and micro USB charging cable
- dimensions (folded): 185 x 69 x 45 mm
- weight: 0.3 kg
- accumulator power (electric charge): 4.0 Ah
- accumulator type: Li-Ion
- autonomy: 4 -8 h
- protection class: IP 65



Item #
85321



## COB-LED Work Handheld Lamp | ultra flat Type

- ensures equal illumination of the work area
- especially suitable for narrow places thanks to small dimensions
- COB LED power: max. 15 W
- brightness continuously adjustable through control knob
- working time (max. brightness): approx. 2.5 h; at reduced brightness approx. 12 h
- swivel base with powerful magnet
- swivel hanging hook
- charging display LED
- USB charger 5 V (DC) / 1.0 A
- accumulator power (electric charge) 2.2 Ah
- accumulator charging time: 4 h



Item #
85319



## COB LED Working Light

- with COB LED technology
- 4x brighter than standard LED lamps
- perfectly even and bright light
- with hanging hook
- comfortable swivel anti-slip handle
- magnetic base
- lithium-Ion battery, 3.7 V / 2200 mAh, for faster charging
- incl. AC main charger and 12V adaptor cable
- length: 185 mm
- width: 55 mm
- height: 35 mm



Item #
85317



## COB LED Workshop Lamp with Magnet and Hook

- with COB LED light strip technology for bright light
- rechargeable battery
- in 9 positions by 180° adjustable magnetic feet
- 2 magnets on the back
- 2 folding hooks
- incl. battery charger
- LED type: 3W COB LED
- brightness: 250 LM
- working time: approx. 2.5 hours
- IP20 waterproof
- length: 280 mm
- height: 62 mm
- depth: 43 mm
- accumulator power (electric charge): 2.0 Ah
- accumulator voltage 3.7 V
- accumulator type: Li-Ion
- autonomy: 2.5 h
- protection class: IP 20



Item #
85316



## LED Battery Bonnet Lamp

- robust design with telescopic mounting brackets
- soft padded hooks provide good protection against damages to the bonnet
- 120 LEDs with 120° spread of light give complete engine bay illumination
- battery: Li-ion 7.4 V / 2.0 Ah
- capacity: 7 W
- lamp type: LED, 120 pieces
- min. bonnet width: 1290 mm
- max. bonnet width: 2190 mm
- operating time: approx. 4 h
- charging time: approx. 6 h
- incl. 230V charger and 12V car charging cable



Item #
85412



## Under Bonnet Working Lamp

- with fluorescent tube type T8, 30 watt (890 mm)
- **with telescopic bar**, extends 110 to 190 cm
- 360° swivel hook
- 4.5 m (230 V)



Item #	Description
85305	Under Bonnet Working Lamp
85305-1	Replacement Tube for BGS 85305   30 W / 230 V

## Energy Saving Work Light | 38 W

- with 1 VDE socket on the backside (max. 3600 W)
- dimensions: approx. 27 x 27.5 x 13 cm (L x W x H)
- 1.8 m cable (H07RN-F 3G 1.5mm²) with VDE plug
- protected against spray water
- adjustable stand and handle




Item #	Description
85320	Energy Saving Work Light   38 W
85325	Spare Lighting for BGS 85320   38W GR10q



## 3-in-1 Claw Combination Tool | 500 mm

- useful 3-in-1 tool
- claw
- magnetic lifter
- light
- light and claw are also integrated in the magnetic tip
- total length with light: 585 mm
- length: 500 mm

Item #	
3197	



## Flexible Pick Up Tool | Steel | 595 mm


- all steel made construction
- length: 595 mm

Item #	
3102	



## Magnetic Lifter / flexible claw Tool

- magnetic power approx. 800 g
- claw opening up to 23 mm
- claw tool for picking up small parts (screws, nuts etc.) in hard to reach places
- magnetic pick up tool for all small metal parts
- length: 700 mm

Item #	
3094	



## Universal Support Hook 200 - 520 mm

- easily adjustable with thumb screw
- working range: 200 - 520 mm
- applicable as holder for vehicle parts like steering knuckle or brake calliper, oil and brake pipes to avoid damages
- for fastening and holding of vehicle parts such as axle legs or brake calliper, oil and brake pipes to avoid damages



Item #
9390

## Magnetic Pick-Up Tool | flexible | 500 mm | Capacity 0.5 kg

- capacity up to 500 g
- extra thin magnetic head Ø 6 mm
- 2-component handle

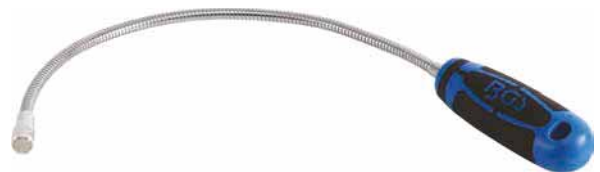


Item #
3089



## Magnetic Pick-Up Tool | flexible | 500 mm | Capacity 1 kg

- capacity up to 1 kg
- magnet head Ø 10 mm
- 2-component handle



Item #
3154



## Magnetic Pick-Up Tool | flexible | 500 mm | Capacity 2 kg

- capacity up to 2 kg
- magnet head Ø 12.5 mm
- 2-component handle



Item #
3158



## Magnetic Pick-Up Tool | flexible | 500 mm | Capacity 3 kg

- capacity up to 3 kg
- magnet head Ø 16.5 mm
- 2-component handle



Item #
3159



## Magnetic Pick-Up Tool with LED | 600 mm | Capacity 1.5 kg

- capacity up to 1.5 kg
- with strong LED lamp on magnetic tip
- gooseneck Ø 8 mm
- magnet diameter: 17.5 mm
- 2-component handle



Item #
3187



## Claw / Magnetic Lifter / Combination Light Tool | 615 mm

- bright LED for good illumination
- strong magnet, lifts up to 500 g
- length: 615 mm



Item #
3174



## Magnetic Lifter | 660 mm | Capacity 0.5 kg

- head diameter 7 mm
- with nozzle cleaner
- incl. clip holder
- length: 660 mm



Item #
3091



## Magnetic Pick-Up Tool with flexible tip | 580 mm | Capacity 1.6 kg

- magnetic end diameter: 13 mm
- capacity up to approx. 1.6 kg
- clip holder
- max. length 580 mm
- surface finish: chrome plated



Item #
3183



## Magnetic Lifter | 670 mm | Capacity 2.2 kg

- high capacity (up to 2200 g)
- extendable
- head Ø 13 mm
- handle with belt clip



Item #
3088





## Magnetic Lifter | 650 mm | Capacity 3 kg

- chrome plated - magnetic tip diameter: 15 mm
- the removable tip sleeve prevents from having a sideward magnetic effect so that only those parts you want to pick up are magnetically attracted
- rubber handle with clip holder
- max. length 650 mm

Item #
3188



## LED magnetic Pick-Up Tool and Inspection Mirror Set

- 1 magnetic pick up tool with LED light extendable to 665 mm, capacity 450 g
- 1 magnetic pick up tool extendable to 665 mm, capacity 3500 g
- 3 inspection mirrors, mirror Ø 21 - 31 - 38 mm
- practical storing pouch
- incl. batteries

Item #
3095



## Mini Magnetic Holder Set | 45° - 90° - 135° | 4 pcs.

- useful for aligning and welding metal sheets
- holding force: 4 kg
- length: 72 mm
- width: 43 mm
- height: 11 mm

Item #
3004



## Powerful Magnetic Holders

- 8 separate magnetic areas



Item #	Description
3007	Powerful Magnetic Holder   11 kg
3008	Powerful Magnetic Holder   20 kg
3009	Powerful Magnetic Holder   32 kg



## Inspection Mirror | Ø 55 mm

- flexible shaft
- length: 475 mm

Item #
3081



## Inspection Mirror | 63 x 45 mm

- for inspecting hard-to-access areas
- telescopic length: 165 - 655 mm
- stainless steel mirror surface: 63 x 45 mm
- anti-slip grip, 110 mm

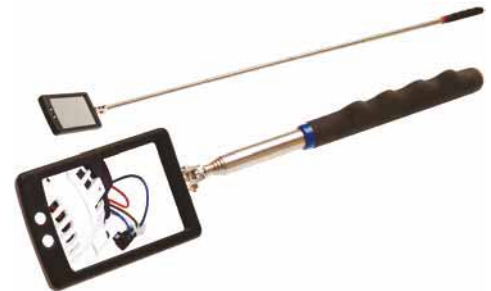
Item #
8966



## LED Telescope Inspection Mirror | 285 - 870 mm

- non-slip telescopic grip
- rotating and folding mirrors
- mirror size: 41 x 62 mm
- 2 LEDs
- incl. battery
- length: 285 - 870 mm

Item #
9302



## Telescopic Inspection Mirror | Ø 200 mm

- especially suitable for visual examination under a vehicle to find oil leaks or corrosion
- aluminium telescopic handle adjustable from 660 mm to 1090 mm
- mirror diameter 200 mm
- shatterproof acrylic mirror
- adjustable mirror angle
- ergonomic handle

Item #
3176



## Pry Bar Set | 4 pcs.

- slip guard handles with steel head
- pry bar 200 x 11 mm - 300 x 17 mm - 450 x 19 mm - 600 x 20 mm



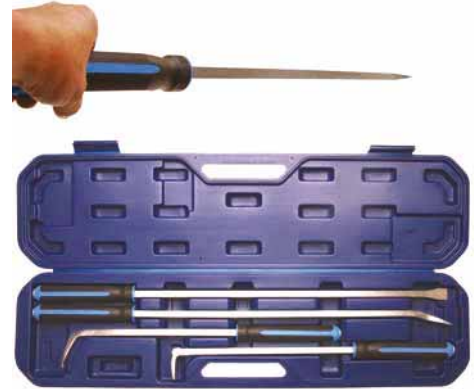
Item #	Description
9137	Pry Bar Set   4 pcs.
9137-1	Pry Bar   200 x 11 mm
9137-2	Pry Bar   300 x 17 mm
9137-3	Pry Bar   450 x 19 mm
9137-4	Pry Bar   600 x 20 mm



## Pry Bar Set | 4 pcs.

- 4 different pry bars for all kinds of applications on trucks and other heavy vehicles
- 2 bars 600 mm long and 2 bars 900 mm long
- straight and 30° - 75° - 90° bent
- rubber coated soft-grip

Item #
9133



## Pry Bar Set | 4 pcs.

- hardened black finished carbon steel
- plastic handles with guarding caps
- sizes: 200 x 12 mm - 300 x 18 mm - 450 x 20 mm - 600 x 20 mm

Item #
9135



## Pry Bar | 780 mm

- with acid resistant handle
- handle length 205 mm
- dimensions of square profile handle: 35 x 35 mm
- head width: 16 mm
- head thickness: 2 mm
- dimensions of square rod: 16 x 16 mm
- length: 780 mm
- surface finish: satin chrome plated



Item #
9134



## Oil Pan Separating & Cleaning Set | 19 pcs.

- for separating of sealed components, e. g. oil pans on engines and gearboxes or other difficult to separate seals
- additional copper blade prevents damage to e. g. aluminium oil pan sealing surfaces
- 1 separating tool with replaceable blade
- 1 replacement copper blade
- 1 hexagon key wrench, 2.5 mm
- 1 cleaning adaptor for drill
- 15 cleaning discs Ø 20 mm



Item #
9327



## Oil Drum Cart | Standard Type | for 200 l Drums

- tubular steel structure with deep-welded joints
- suitable for upright movement of all common 200 litre barrels
- with 4 steel castor wheels for high flexibility
- platform base Ø: 650 mm
- corner height: 65 mm
- max. capacity: 400 kg



Item #
9479

## Air Suction Oil Drainer | 70 l

- designed for extracting waste oils, such as on engines, gearboxes, rear axles, etc.
- with compressed air connection, makes it easier to empty the container
- large glass container to check the oil level
- with 4 castors, 2 swivel wheels for easy manoeuvring
- flexible suction pipes: Ø 5 - 6 - 7 and 8 mm
- metal suction pipes: Ø 5 and 6 mm
- emptying hose, 1.8 m



Item #	Description
8545	Air Suction Oil Drainer   70 l
8544-1	Replacement Castor for BGS 8544, 8545
8544-2	Replacement Rigid Roller for BGS 8544, 8545

## Oil Drip Pan for Motorcycles | 2 l

- low height, especially suitable for motorcycles and scooters
- for changing oil and collecting used oil of e.g. clutch, gearbox, etc.
- capacity 2 l
- material: HDPE
- dimensions: 380 x 212 x 73 mm
- weight approx. 250 g



Item #
9994

## Oil Tub / Drip Pan with Nozzle | 3.5 l

- resistant to most solvents up to 60°C
- acids, alkalis, alcohols, oil, gasoline
- material: HDPE
- dimensions: Ø 265 x 60 mm



Item #
9979

## Oil Tub / Drip Pan with Nozzle | 8 l

- resistant to most solvents up to 60°C
- acids, alkalis, alcohols, oil, gasoline
- material: HDPE
- diameter: 400 mm
- height: 125 mm
- weight 650 g



Item #
9981



## Oil Tub / Drip Pan with Nozzle | 15 l

- resistant to most solvents up to 60°C
- acids, alkalis, alcohols, oil, gasoline
- material: HDPE
- diameter: 570 mm
- height: 120 mm
- weight: 1075 g
- impact resistant

Item #
9980



## Drip pan | 18 l

- for collecting coolants, oils, etc.
- length: 565 mm
- width: 420 mm
- height: 80 mm

Item #
9474



## Drip Pan | 50 l

- for collecting coolants, oils, etc.
- with lowered corner for better emptying
- length: 880 mm
- width: 600 mm
- height: 100 mm

Item #
9997



## Oil Changing Can with Nozzle | 8 l

- closed construction, special flat type (only 12 cm high)
- ideal for use in confined spaces
- special shaped oil basin makes sure no oil will get lost
- with 3 carrying-handles and 3 openings
- suitable for oil, petrol, chemicals and antifreeze

Item #
9982



## Oil Changing Can | extra flat | 20 l

- especially suitable where a low tank height is required
- suitable for all fluids in the car such as cooling fluid, all kinds of oils, etc.
- filtering sieve for impurities
- drain and vent opening
- max. volume: 20 l
- overall dimensions: 850 x 600 mm
- dimensions of the collecting area: approx. 490 x 610 mm
- height: 100 mm
- movable, with 2 wheels



Item #
8719

## Oil Changing Can with Nozzle | mobile | 40 l

- for collection of fluids, such as e. g. engine oil, transmission oil, rear axle oils and coolant fluids
- suitable for cars and motorcycles
- easy positioning by two wheels, Ø 100 mm
- closable drain, pouring and ventilation openings
- equipped with handles on both sides
- overall dimensions: 900 x 500 mm
- dimensions of the collecting area: approx. 350 x 320 mm
- height: 200 mm



Item #
8554

## Oil Drip Pan | 60 l

- especially suitable for ground-level repairs and for storage of oily parts
- 4 castors and drawbar allow easy positioning
- hand-crank pump for emptying the oil pan
- hole plate cover for placing of components on it
- plastic tub with sheet steel reinforcement for a save hold of the castors
- length: 1100 mm
- width: 700 mm
- height: 190 mm



Item #
9987

## Oil Drip Pan for Trucks | 3 l

- for collecting oil during axle repairs
- suitable for commercial vehicles
- suitable for rim inner diameter over 350 mm
- with side opening for draining the oil
- capacity 3 l
- material: HDPE
- temperature range: - 40 °C to +80 °C
- dimensions: 316 x 246 x 156 mm



Item #
8720

## Oil Drum Attachment for 200-l drums | 20 l

- oil drum attachment for emptying of oil filters
- discharge of waste oil and drop of oil filters
- to be placed on 200-l barrels
- secure fit
- reduces the risk of spillage
- black
- capacity: 20 l
- diameter 600 mm
- weight 1.7 kg
- material: polypropylene



Item #
8942

## Oil Drum Attachment for 20 and 30-l drums | Ø 280 mm

- oil drum attachment for emptying of oil filters
- for installation on 20 / 30-l standard buckets or open-top containers with min. 280 mm diameter
- oil drain connects directly to the bucket opening
- with oil filter adaptor for simple and efficient draining of the oil filter
- made of chemical resistant polyethylene
- includes a filter for capturing of debris



Item #
9978

## Transmission Oil Filling Tool with Hand Pump | with Return System | with 8 Adaptors | 7 l

- new version with 2 hoses for backflow of excessive oil
- with 8-pc adaptor set with different angles and thread types
- ideal for filling Mercedes-Benz 722.9 VW / Audi DSG and CVT transmissions
- for filling gearboxes and differentials with oil
- hose length 160 cm
- can be used up to SAE 140



Item #	Description
9991	Transmission Oil Filling Tool with Hand Pump   with Return System   with 8 Adaptors   7 l
9991-2	Replacement Container for BGS 9991

## Transmission Filling Adaptor Set | 15 pcs.

- for filling of manual, automatic and DSG transmissions
- fits on oil filling tools BGS 9991, 9992

**includes 15 adaptors, suitable for following models:**

- adaptor 1/8"-27 NPT - Ford
- adaptor M10 x 1.0 - VW, Audi, MINI Cooper
- adaptor M24 x 1.5 - VW, Audi DSG
- Adaptor M22 x 1.5 - VW, Audi CVT
- ATF adaptor - VW Passat
- adaptor M12 x 1.5 - Mercedes-Benz
- adaptor M18 x 1.5 - Skoda
- adaptor M30 x 1.5 - Audi, VW, Skoda
- adaptor 5/16"-24 UNF - Volvo
- adaptor M18 x 1.5 - Toyota, Lexus
- adaptor M8 x 1.0 - Nissan, Infinity
- universal adaptor (flexible) - Honda, Hyundai, Kia, etc.
- universal adaptor - BMW, Honda, Nissan, etc
- adaptor - VW, Audi, Skoda, Seat
- adaptor for VW, Audi, Porsche

Item #
9992-1



## Transmission Oil Filling Tool with Hand Pump | with 8 Adaptors | 7 l

- suitable for filling of manual and automatic transmissions
- viscosity range: SAE0 to SAE140
- capacity: 80 cm<sup>3</sup> per cycle
- tank capacity: 7 l

### includes the following 8 adaptors:

- adaptor for Ford, 1/8" 27NPT
- universal adaptor for BMW, Honda, Nissan etc.
- adaptor for VW, Audi
- adaptor for VW, Audi, Porsche
- adaptor for VW, Audi, MINI, M10 x 1.0
- adaptor for VW & Audi DSG, M24 x 1.5
- adaptor for VW & Audi CVT, M22 x 1.5
- adaptor for Mercedes-Benz 722.9, M12 x 1.0



Item #	Description
9992	Transmission Oil Filling Tool with Hand Pump   with 8 Adaptors   7 l
9992-2	Empty Case for Adaptors for BGS 9992
9992-109	Filling Adaptor for BGS 9992   for Skoda
9992-110	Filling Adaptor for BGS 9992   for Audi, VW
9992-111	Filling Adaptor for BGS 9992   for Honda, Hyundai, Kia
9992-112	Filling Adaptor for BGS 9992   for Volvo
9992-113	Filling Adaptor for BGS 9992   for Lexus
9992-114	Filling Adaptor for BGS 9992   for Nissan, Infinity
9992-115	Filling Adaptor for BGS 9992   for Passat
9992-116	Filling Adapter for BGS 9992   for MINI Cooper
9992-118	Filling Adapter for BGS 9992   for Nissan Juke

## Adaptor for Transmission Oil Filling Tool | for Audi, Mercedes-Benz, VW

- for clean filling of the gearbox
- suitable for Mercedes-Benz 722.9, VW / Audi DSG, VW / Audi CVT



Item #
9990



## Air Powered Oil Removing & Filling Tool

- for easy and professional filling of transmissions
- also suitable for other non-corrosive liquids

adaptors for following transmissions:

- adaptor for Ford, 1/8" - 27NPT
- universal adaptor for e. g. BMW, Honda, Nissan etc.
- adaptor for VW, Audi
- adaptor for VW, Audi, Porsche
- adaptor for VW, Audi, MINI, M10 x 1.0
- adaptor for VW & Audi DSG, M24 x 1.5
- adaptor for VW & Audi CVT, M22 x 1.5
- adaptor for Mercedes-Benz 722.9, M12 x 1.0
- pressure gauge for monitoring the filling pressure
- 3 bar safety valve
- capacity: 6000 cm<sup>3</sup>
- air consumption 57 l/min
- air connection: 6.3 mm (1/4")



Item #
8775

## Oil Filter Wrench | for VAG DSG | 24 mm

12.5 1/2

- for changing the DSG transmission oil filter
- disassembling or moving of the battery is not required with this tool
- reduces operating time to the minimum
- wrench size: 24 mm
- profile: 12-point



Item #
9334



## Gear Oil Filling Hose for VAG

- is needed when replacing the DSG transmission oil
- with adaptor for 1 litre gear oil
- built-in valve prevents oil spillage



Item #
1402



## Oil Funnel Adaptor Set | Plastic Type

- allows for fast oil filling without spillage
- ideal for many new vehicle models
- 2 litre funnel fits adaptors for wide application range
- colour-coded adaptors for oil filler hole
- special angled extension with swivel function for hard-to-reach places

### adaptors for the following vehicles:

- bayonet adaptor for Audi, BMW, Dodge, Mercedes-Benz, Porsche, Volvo, VW
- threaded adaptor M42 x 4.5 for Subaru
- threaded adaptor M37 x 3.0 for Toyota, Lexus, Scion, Pontiac
- threaded adaptor M35 x 4.0 for Mazda
- threaded adaptor M32 x 3.5 for Dodge, Honda, Acura, Nissan, Jaguar, Ford
- bayonet adaptor for Toyota & Lexus 3.0 & 3.3l V6



Item #
8505-1

## Oil Filling Adaptor for VAG | for BGS 8505-1, 8899

- new type of oil cover, suitable for oil funnel set BGS 8505-1 and BGS 8899

### suitable for e.g. the following models (MQB):

- Audi A3, VW Golf 7, Seat Leon (5F), Skoda Octavia 3



Item #
8505-13P

## Oil Funnel Adapter Set | Aluminum Type

- helps to fill in engine oil spillage free
- tubing and adaptor are made of aluminum
- 1l funnel capacity

### includes following adaptors:

- M37 x 3.0 for Lexus, Toyota (not for Prius / Yaris)
- M42 x 4.5 for Subaru (not for Tribeca)
- M32 x 3.5 for Nissan, Honda, Accura (not for MDX / RDX)
- M35 x 4.0 for most Mazda models
- bayonet adaptor for Audi, VW, BMW, Mercedes-Benz, Volvo, Dodge



Item #
8505

## Oil Filling Set for Automatic Transmission

- for a clean filling of automatic transmission with gear oil
- suitable for transmissions which can be filled through the dipstick tube
- funnel with inspection window, Ø 125 mm, 211 mm long
- adaptor tube, 150° angled, for steep dipstick tubes
- filling tube adaptor for inclined dipstick tubes
- filling tube with a conical tip and rubber seal, tube diameter 16 mm, 430 mm length, for dipstick tube diameter 8 to 15 mm
- plastic hose, 200 mm length, Ø 13.5 x 16 mm



Item #
8898

## Oil Funnel with Bayonet Adaptor for VAG, Mercedes-Benz, BMW, Porsche, Volvo

- allows for fast oil filling without spillage
- 2 liter funnel with attached bayonet adaptor

ideal for many models, such as e. g.

- Audi A3, A4, A5, A8, Q7, R8, RS4, RS6, S4, S6, S8
- BMW with bayonet cap
- Mercedes-Benz Sprinter 2.7l, 3.0l V6 CRD & models with bayonet caps
- Porsche Cayenne and Panamera
- Volvo 244, 245, 264, 265, 740, 760
- VW Beetle, CC, Cabrio, Eos, EuroVan, GTI, Golf, Jetta, Passat, Phaeton, R32, Rabbit, Touareg



Item #
8899

## Universal Oil Funnel

- facilitates the oil filling process
- the funnel does not need to be held when re-filling oil
- thanks to automatically adjustable clamping mechanism, it can be used in many different ways
- clamping range: Ø 28 - 74 mm
- clamping mechanism can also be used for conventional funnels
- transparent funnel chamber indicates the oil flow
- suitable for e.g. following vehicle manufacturers: BMW, Mercedes-Benz, Ford, VW, Audi, Seat, Skoda, Renault, Peugeot, Citroen, Fiat, Mazda, Honda, Mitsubishi and many others



Item #
9391



## Oil Filling Funnel | bent | Ø 145 mm

- double angled for hard to reach places
- drain diameter: approx. 20 mm
- height 320 mm
- funnel: Ø 145 mm

Item #

8695



## Oil Funnel | 850 ml Reservoir

- square type
- neck external diameter: 27 mm
- neck internal diameter: 23 mm

Item #

9986



## Magnetic Sockets for Oil Drain Screws | 15 pcs.

10 3/8

- facilitates the disassembly / assembly of oil drain plugs
- oil drain plugs will be held on the magnetic sockets
- magnetic sockets for drain plugs with internal hexagon: 8 - 10 - 12 - 13 - 14 - 17 mm
- magnetic sockets for drain plugs with internal square: 8 - 10 mm
- magnetic socket for drain plugs with T-Star: T45
- magnetic sockets for drain plugs with external hexagon: 13 - 14 - 17 - 18 - 19 - 21 mm
- surface finish: polished chrome metal

Item #

2256



## Special Oil Drain Socket Set | 10 mm (3/8") | 21 pcs.

10 3/8

- 9 hexagon sockets 8 - 9 - 10 - 12 - 14 - 17 mm, 8 mm (5/16") - 10 mm (3/8") - 12.5 mm (1/2")
- 5 square sockets 8 - 11 - 12 - 13 - 14 mm, 8 mm (5/16") - 10 mm (3/8") - 12.5 mm (1/2")
- 1 inner square socket 10 mm
- 1 triangle socket 10 mm
- 1 spline socket M16
- 1 sliding T-bar, 200 mm
- surface finish: black burnished

Item #

1014



## Universal Oil Drain Socket Set | 12 pcs.

10  $\square$   $\frac{3}{8}$

- 7 sockets, 10 mm (3/8") drive, internal hexagon: 8 - 9 - 10 - 12 - 14 - 17 mm - 3/8"
- 4 sockets, 10 mm (3/8") drive, internal square: 8 - 11 - 13 mm - 3/8"
- 1 sliding bar



Item #
1017

## Oil Service Tool Set | 6 pcs.

- used in combination with socket or 14 mm or 21 mm wrench
- oil service socket, hexagon 5/16" x 10 mm (3/8")
- oil service socket, square 8 x 10 mm (3/8")
- oil service socket, hexagon 8 x 10 mm
- oil service socket, square 11 mm x hexagon 12 mm
- oil service socket, square 13 mm x hexagon 14 mm
- oil service socket, hexagon 12.5 mm (1/2") x 17 mm



Item #
1015



## Oil Service Socket Set | 12.5 mm (1/2") Drive | internal square | 6 pcs.

12.5  $\square$   $\frac{1}{2}$

- on socket rail
- oil service sockets, 12.5 mm (1/2") drive, external square 8 - 10 - 12 - 14 mm, 1/2" - 3/8"
- surface finish: satin chrome plated



Item #
1016



## Oil Drain Plug Socket | 4-pt. | 8 mm / 10 mm

12.5  $\square$   $\frac{1}{2}$

- square 8 mm and 10 mm, reversible
- phosphated
- suitable e. g. for Ford, Nissan, Mazda, Renault, Peugeot, Volvo etc.
- 12.5 mm (1/2") drive
- surface finish: satin chrome plated



Item #
8991





## Special Oil Drain Plug Wrench "8-IN-1"

- 4 square sockets 8 - 10 mm and 3/8" - 1/2"
- 4 hexagon sockets 8 - 12 - 14 - 17 mm
- length: 270 mm

Item #
1012



## Special Oil Drain Plug Wrench | for Peugeot | 8 - 10 mm

- forged

Item #
1006



## Oil Drain Plug Wrench for VAG

- for professional loosening and tightening of plastic drain plugs
- suitable for oil drain plugs in plastic oil pans, installed in:
  - Audi A1, A3, A4, A5, A6, A7, Q3, Q5, Q7, TT, TTS
  - Seat Alhambra, Leon, Toledo
  - Skoda Octavia, Rapid, Superb, Yeti
  - VW Beetle, Caddy, CC, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran
- to be used as OEM T10549

Item #
9060



## Oil Drain Plug Wrench for VAG

- for professional loosening and tightening of plastic oil drain plugs
- suitable for oil drain screws in plastic oil trays, installed in:
  - Audi A1, A3, A4, A5, A6, A7, Q3, Q5, Q7, TT, TTS
  - Seat Alhambra, Leon, Toledo
  - Skoda Octavia, Rapid, Superb, Yeti
  - VW Beetle, Caddy, CC, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran
- drive: internal square 10 mm (3/8") and external hexagon 17
- to be used as OEM T10549

Item #
9424



## Repair Kit for Oil Drain Threads | 114 pcs.

- 6 taps: M13 x 1.25 mm - M13 x 1.5 mm - M15 x 1.5 mm - M17 x 1.5 mm - M20 x 1.5 mm - M22 x 1.5 mm
- 6 oil drain plugs in the above-mentioned tap sizes
- 72 aluminium sealing rings: Ø 13 - 15 - 17 - 20 - 22 mm



Item #
123



## Repair Kit for Oil Drain Threads | 64 pcs.

- 4 taps: M13 x 1.5 mm - M15 x 1.5 mm - M17 x 1.5 mm - M20 x 1.5 mm
- 5 oil drain plugs M13 x 1.5 mm, external hexagon drive 17 mm
- 5 oil drain plugs M15 x 1.5 mm, external hexagon drive 19 mm
- 5 oil drain plugs M17 x 1.5 mm, internal hexagon 8 mm
- 5 oil drain plugs M20 x 1.5 mm, internal hexagon 10 mm
- 10 aluminium sealing rings: Ø 13 - 15 - 17 - 20 mm



Item #	Description
126	Repair Kit for Oil Drain Threads   64 pcs.
126-BM13	Tap   for BGS 126   M13 x 1.5
126-BM15	Tap   for BGS 126   M15 x 1.5
126-BM17	Tap   for BGS 126   M17 x 1.5
126-BM20	Tap   for BGS 126   M20 x 1.5
126-SM13	Oil Drain Plug   for BGS 126   M13 x 1.5 mm   5 pcs.
126-SM15	Oil Drain Plug   for BGS 126   M15 x 1.5 mm   5 pcs.
126-SM17	Oil Drain Plug   for BGS 126   M17 x 1.5 mm   5 pcs.
126-SM20	Oil Drain Plug   for BGS 126   M20 x 1.5 mm   5 pcs.
126-UM13	Seal Ring Assortment   for BGS 126   Ø 13 / 16.5 mm   10 pcs.
126-UM15	Seal Ring Assortment   for BGS 126   Ø 15 / 18.5 mm   20 pcs.
126-UM17	Seal Ring Assortment   for BGS 126   Ø 17 / 20.5 mm   20 pcs.
126-UM20	Seal Ring Assortment   for BGS 126   Ø 20 / 23.5 mm   20 pcs.

## Repair Kit for Oil Drain Thread | M14 x 1.25 mm

- 1 tap made from HSS-G steel
- 6 spare screws
- 12 copper sealing rings
- 6 aluminium sealing rings



Item #	Description
153	Repair Kit for Oil Drain Thread   M11 x 1.5 mm
168	Repair Kit for Oil Drain Thread   M13 x 1.25 mm
156	Repair Kit for Oil Drain Thread   M13 x 1.5 mm
151	Repair Kit for Oil Drain Thread   M14 x 1.25 mm
157	Repair Kit for Oil Drain Thread   M15 x 1.5 mm
158	Repair Kit for Oil Drain Thread   M17 x 1.5 mm
159	Repair Kit for Oil Drain Thread   M20 x 1.5 mm

## Oil Drain Plug Screws and Copper Seal Ring Assortment | 534 pcs.

- in plastic storage case
- oil drain plug screws: 5x10 mm - 5x12 mm - 5x13 mm - 5x14 mm - 5x15 mm - 3x16 mm - 3x18 mm - 3x20 mm
- copper O-rings: 50x6 mm - 50x8 mm - 50x10 mm - 50x12 mm - 50x13 mm - 50x14 mm - 50x15 mm - 50x16 mm - 50x18 mm - 50x20 mm



Item #
8118

## Oil Drain Plug Screws and Aluminium Seal Ring Assortment | 534 pcs.

- in plastic storage case
- oil drain plug screws: 5x M10 - 5x M12 - 5x M13 - 5x M14 - 5x M15 - 3x M16 - 3x M18 - 3x M20
- sealing rings made of aluminium: 50x6 mm - 50x8 mm - 50x10 mm - 50x12 mm - 50x13 mm - 50x14 mm - 50x15 mm - 50x16 mm - 50x18 mm - 50x20 mm



Item #
8119



## Oil Filter Strap Wrench | Ø 20 - 190 mm

- continuously adjustable
- strap width approx. 26 mm
- length of tool body approx. 255 mm
- heavy duty finish, tool weighs approx. 875 g
- suitable e. g. for oil filter assembly
- strap material similar to a V-belt
- length: 255 mm



Item #
1008

## Oil Filter wrenches

- makes the loosening of stuck oil filters easier
- especially suitable for small spaces
- steel strip is tensed by turning the clamping screw at the end of the handle
- profiled steel strip prevents sliding over the filters



Item #	Description
8537	Oil Filter Strap Wrench   Ø 65 - 105 mm
8537-1	Replacement Band   65 - 105 mm   for BGS 8537
8536	Oil Filter Strap Wrench   Ø 110 - 155 mm
8536-1	Replacement Band   110 - 155 mm   for BGS 8536

## Oil Filter Strap Wrench | Spring Steel Strap | Aluminium Die Cast

- suitable for all oil filters



Item #	Description
1027	Oil Filter Strap Wrench   Spring Steel Strap   Aluminium Die Cast   Ø max. 155 mm
1025	Replacement Band for BGS 1027
1028	Oil Filter Strap Wrench   Spring Steel Strap   Aluminium Die Cast   Ø max. 105 mm
1029	Replacement Band for BGS 1028



## Oil Filter Strap Wrench | Ø max. 130 mm

- with reinforced, non-slip webbing
- all-purpose, easy to adjust
- for oil filters and other round fittings
- 2-component handle
- length of strap: 460 mm

Item #
1054



## Oil Filter Strap Wrench XL | Ø 125 - 145 mm

12.5 1/2

- for especially large oil filter diameters of up to 145 mm
- high-strength steel strip for long service life
- also suitable for loosening granulate air dryer cartridges on trucks

Item #
8793



## Oil Filter Chain Wrench | Ø 60 - 160 mm

- heavy duty tool with duplex chain
- chain width approx. 22 mm
- claw prevents slipping
- 180° swivel handle
- ease to use due to special chain-lock
- suitable for oil filter Ø 60-160 mm
- length: 520 mm
- surface finish: satin chrome plated

Item #
1011



## Oil Filter Chain Wrench | Ø 60 - 115 mm

12.5 ■ 1/2

- with duplex chain
- chain width 13 mm
- also for rusted oil filters
- easy handling
- suitable for all filter cartridges with diameter 60 - 115 mm



Item #
1002



## Oil Filter Chain Wrench | Ø 65 - 115 mm

12.5 ■ 1/2

- with robust 32 chain links
- 12.5 mm (1/2") drive



Item #
1033





## Oil Filter Wrench Set | 30 pcs.

10 mm 3/8"

Item #  
1039

CV



### Set Contents

Item #	Size	Steps	Groove	Planes	Example Applications
1039-66-6	66	1	6		Fiat Punto 1.2, Renault Clio 1.2, Rapid, Twingo
1047	65	1		14	Daihatsu, Toyota, Nissan, Fiat
1039-65-67	65-67	1		14	Daihatsu, Toyota, Nissan, Fiat
1039-68-14	68	1		14	Mazda, Ford, Subaru
1039-73-14	73	1		14	Toyota, Lexus
1039-74-15	74	1		15	Audi, Rover, Chrysler
1039-74-76	74-76	2		15	Ford, Opel, VW, Audi, Mercedes
1039-75-77	75-77	2		15	VW, Audi, Isuzu, Mercedes
1039-76-12	76	1		12	Fiat, Mercedes, Renault
1039-76-30	76	1	30		Ford
1039-76-8	76	1	8		Fiat, Lancia
1039-78-15	78	1		15	Nissan, Ford, Toyota
1039-80-15	80	1		15	Nissan, Honda, Opel, Mazda
1039-80-82	80-82	2		15	Subaru, Toyota, Honda, Nissan
1039-86-16	86	1		16	Volvo
1039-86-18	86	1		18	VW Golf, Audi A6 TDI, Peugeot, Citroen
1039-90-15	90	1		15	Honda, Mitsubishi, Isuzu
1039-92-10	92	1		10	Fiat
1039-93-15	93	1		15	Mazda, Volvo, Mitsubishi, Nissan, Honda
1039-93-36	93	1	36		Ford
1039-93-45	93	1	45		VW, Audi TDi
1039-95-15	95	1	15		Toyota, Alfa, Ford
1039-96-18	96	1	18		Audi A4, A6 TDI, VW Passat TDI, Renault Laguna
1039-106-15	106	1		15	Fiat Ducato
1039-108-15	108	1		15	Volvo
1039-108-18	108	1	18		Renault Espace, Laguna, Safrane, Traffic
1039-ADAPT	Adaptor 12,5 mm (1/2) x 10 mm (3/8)				
1039-SPINNE	Oil filter wrench				

Oil service

## Oil Filter Wrench Set | Ø 27 - 88.8 mm | 9 pcs.

10  3/8

- 10 mm (3/8") drive internal square
- end cap oil filter wrench 64.5 mm x 14-pt., aluminium chrome finish, for Toyota Auris, Corolla, Premio, Prius
- end cap oil filter wrench 64.5 mm x 14-pt., aluminium chrome finish, for Toyota V6 models from 2007 - 2008, Lexus ES 350, GS 350, GS 350h, LS 460, RX 350, LS 600j L
- end cap oil filter wrench 88.8 mm x 15-pt, aluminium chrome finish, for Kia and Hyundai
- End cap oil filter wrench 74.2 mm x 14-pt., aluminium chrome finish, for Audi, BMW, Ford, Mazda, Toyota, Volkswagen, Porsche, Mercedes-Benz V6, V8
- end cap oil filter wrench 86.6 mm x 6-pt., aluminium chrome finish, for BMW 335i, 535i, 3 series E90, X6 3.0L, Volvo models 1999 - 2006 (not 2005 40 and 50 models)
- universal end cap oil filter wrench 63 - 83 mm, SCM 440 chrome finish
- end cap oil filter wrench 27 mm x 6-pt., S45C nickel plated, for Mercedes-Benz and Smart models
- end cap oil filter wrench 32 mm x 6-pt., S45C nickel plated: for Opel 4-cylinder 2.2 X10XE, X12XE, Y17DT, Y17DT, Mercedes-Benz OM 364, OM 366
- end cap oil filter wrench 36 mm x 6-pt., S45C nickel plated: for Mercedes-Benz Diesel OM604, OM605, OM606, BMW M52, M60, M70, MINI, VW VR6



Item #

8667

## Oil Filter Wrench Set | for Renault dCI Motoren | 3 pcs.

- suitable for Renault 1.5 L, 1.9 L, 2.2 L, 2.5 dCI engines
- also suitable for identical engines in Nissan, Opel and Dacia
- 27 mm 12-point cap also fits for Mercedes-Benz A-Class
- 96 mm 18-point cap also fits Audi A4, A6 TDI and VW Passat TDI



Item #

1009

## Oil Filter Wrench Set | Ø 27 / 32 / 36 mm | 3 pcs.

10  3/8

- height 35 mm
- oil filter cap wrench 27 mm x hexagon, for Mercedes-Benz, Smart, Cadillac CTS, SI 2.8L, 3.2L and 3.6LSRX, Buick rendezvous Uitra, Buick LaCrosse CXS, Stum L3000, Saab 9-5
- oil filter cap wrench 32 mm x hexagon, for Mercedes-Benz, Opel, Astra, Corsa, Zafira
- oil filter cap wrench 36 mm x hexagon, for Opel Omega DL 16V, Vectra, Zafira 98, BMW 16V, Ford Mondeo 16V Duratorq Transit 2.5 and 2.0 Duratorq Diesel, Mercedes-Benz 116MB, Vito



Item #

1037

## Oil Filter Wrench Set | Ø 24 - 38 mm | 7 pcs.

10  3/8

- low profile design perfect for use on cartridge style filters
- oil filter cap wrench 24 mm, misc. BMW
- oil filter cap wrench 27 mm for Mercedes-Benz A class
- oil filter cap wrench 32 mm for Opel Astra G, Corsa B, Zafira
- oil filter cap wrench 36 mm for misc. BMW, Ford Mondeo 2.0, Transit 2.0, D, Opel Vectra B, Zafira, misc. Mercedes-Benz
- oil filter cap wrench 38 mm for Opel Vectra 2.0D
- oil filter cap wrench 29 mm for misc. models
- oil filter cap wrench 30 mm for misc. models



Item #	Description
8377	Oil Filter Wrench Set   Ø 24 - 38 mm   7 pcs.
8377-27	Oil Filter Wrench   Ø 27 mm   for Mercedes-Benz
8377-36	Oil Filter Wrench   6-point   Ø 36 mm

## Oil Filter Wrench | 6-point | for Ø 36 mm | for Audi, BMW, Ford, MAN, Mercedes-Benz, Opel, VW 12.5 1/2

- suitable for the following models:
  - Opel Astra, Corsa 1.9 I CDTi
  - Ford Mondeo, Transit 2.5 and 2.0 (Duratorq)
  - Mercedes-Benz Vito
  - VW Passat, Polo 1.2 I petrol as of 2005
  - VW Transporter T5 1.9 I diesel as of 2004, Touran TDi
  - Audi A6 3.2 I TSI, V6 as of 04
  - BMW- and MAN-engines




Item #	CRO MO
8821	

## Oil Filter Wrench Set | Ø 65 - 75 mm | 4 pcs.

12.5  1/2

- oil filter cap wrench, aluminium: 65 mm x 14-pt
- oil filter cap wrench, aluminium: 67 mm x 14-pt
- oil filter cap wrench, aluminium: 74 mm x 14-pt
- oil filter cap wrench, aluminium: 75 mm x 15-pt



Item #	
8384	

## Oil Filter Wrench | Die-Cast Aluminum

12.5 ■ 1/2

- BGS 1041: for VW, Mercedes-Benz, BMW, Audi, Opel
- BGS 1042: for Toyota, Nissan, Fiat, Daihatsu
- BGS 1045: for GM, Chrysler



Item #	Description
1042	Oil Filter Wrench   14-point   Ø 64 mm   for Daihatsu, Fiat, Nissan, Toyota
1041	Oil Filter Wrench   14-point   Ø 74 mm   for Audi, BMW, Mercedes-Benz, Opel, VW
1045	Oil Filter Wrench   15-point   Ø 75 mm   for Chrysler, GM



## Oil Filter Wrench | Sheet Steel

10 ■ 3/8

- BGS 1007: for Mercedes-Benz
- BGS 1036: for Toyota Diesel
- BGS 1046: for VW, Porsche, Mercedes-Benz, BMW, Audi, Opel
- BGS 1047: for Daihatsu, Toyota, Nissan, Fiat

Item #	Description
1047	Oil Filter Wrench   14-point   Ø 65 mm   for Daihatsu, Fiat, Nissan, Toyota
1046	Oil Filter Wrench   14-point   Ø 76 mm   for VW, Porsche, Mercedes-Benz, BMW, Audi, Opel
1007	Oil Filter Wrench   14-point   Ø 84 mm   for Mercedes-Benz
1036	Oil Filter Wrench   15-point   Ø 99 mm   for Toyota



## Oil Filter Wrench | 14-point | Ø 64.5 mm | for Lexus, Toyota

10 ■ 3/8

- suitable for the following models:
  - Toyota 2007 - 2008 3.5l V6
  - Lexus LS600H (2006)
  - Lexus IS250 (since 2006)
  - Lexus ES350 (since 2007)
  - Lexus GS350 (since 2007)
  - Lexus GS450H (since 2007)
  - Lexus LS460 (since 2007)
  - Lexus RX350 (since 2007)
  - Lexus LS600H (2008)
- profile: external 14-point
- material: aluminium
- surface finish: lacquered
- diameter: 64.5 mm

Item #
8761



## Oil Filter Wrench | 15-point | Ø 76 mm | for Ford

10 ■ 3/8

- suitable for Ford oil filter EM5G-6714-AA (1 883 037)
- drive 10 mm (3/8")
- profile: external 15-point
- diameter: 76 mm

Item #
9077





## Oil Filter Wrench | 15-point | Ø 90.2 mm | for Land Rover

- profile: external 15-point
- material: die-cast aluminium
- diameter: 90.2 mm

Item #
9269



## Oil Filter Wrench | 18-point | Ø 96 mm | for Renault DCI

10 3/8

- suitable for the following Renault models: Espace, Laguna, Master, Traffic, Vel Satis, Avantage with 2.0 / 2.2 / 2.5L DCI engines
- drive: 10 mm (3/8")
- material: die-cast aluminium

Item #
9163



## Oil Filter Wrench | 15-point | for Hyundai, Kia

10 3/8

- 15-pt.
- 10 mm (3/8") drive
- aluminium
- suitable for KIA Mohave and Hyundai Veracruz engines

Item #
997



## Oil Filter Wrench | 14-point | for Jeep, Mercedes-Benz

10 3/8

- suitable for Mercedes-Benz E320, Sprinter and Jeep Cherokee 3.0L V6 diesel since 2007 - made of aluminium
- profile: external 14-point

Item #
1053

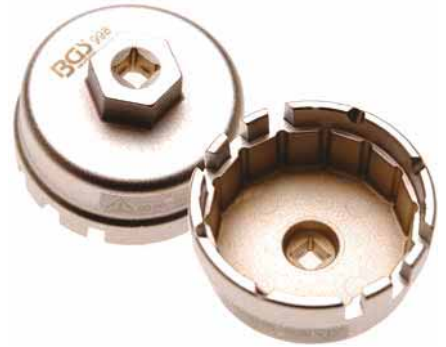




## Oil Filter Wrench | 14-point | Ø 65 mm | for Toyota

10  3/8

- suitable for Toyota 1.8 & 2.0l 4 cylinder engines, installed in Toyota Auris, Corolla, Premio and Prius
- 10 mm (3/8") drive
- aluminium



Item #
998

## Oil Filter Wrench | 14-point | Ø 84 mm | for Dodge, Jeep, Mercedes-Benz

- depth: 48 mm
- 12.5 mm (1/2") drive
- suitable for the following models:
  - Mercedes-Benz Sprinter (2007)
  - Mercedes-Benz E320 (2007)
  - Dodge Sprinter (2007)
  - Jeep Cherokee 3.0 V6 Diesel (2007)



Item #
8765

## Oil Filter Wrench | 14-point | Ø 102 mm | for Opel

12.5  1/2

- 12.5 mm (1/2") drive



Item #
8859

## Oil Filter Wrench | for VAG Diesel with MANN/Mahle Filter

12.5  1/2

- for quick installing and removing of oil filters

**suitable for following VAG oil and Diesel filters:**

- MANN filter W920, W920/7, W930, W930/9, W940, W940/15, W940/20, W940/25, W950, W950/1, W950/5, W962/2, W962/7, WW962/14, W1130/1, WK940/5, WK940/4, WK950/4, WK962/5, WP931, WP962/3,
- as well as Knecht and Mahle oil filters: OC51, OC83, OC214



Item #
9201



## Oil Filter Wrench Set | 5 pcs.

10  3/8

- for loosening of oil filter housing
- especially suitable for use in confined spaces
- suitable for use with ratchet
- 10 mm (3/8") drive
- on socket rail
- oil filter wrench 24 mm: for BMW N62, model 5 / 7
- oil filter wrench 27 mm: for MINI, Renault 1.5 / 1.9 / 2.2 / 2.5 DCI, Ford Fiesta 1.4 / 1.6 TDCi, Mercedes-Benz A-class, Ford Transit 2.2 / 2.4 / 3.2 as of 2006
- oil filter wrench 32 mm: for Ford Transit 2.0 / 2.4, 2000 - 2006, Volkswagen Polo 1.2, Transporter T5 1.9 as of 2004, Audi A6 3.2 V6 TSI as of 2004, Opel Astra G, Corsa B
- oil filter wrench 36 mm: for Mercedes-Benz Transporter M616, 116/100 Transporter, Mercedes-Benz 220D, E220D, M604, C250D, E250D, M605, E300D, M606 BMW M52 (3/5 series), M60 (5/7/8 series), M73 (7/8 series), Opel Vectra-B di 16V as of 1998, Volkswagen Transporter T5, Lupo 1.2 TDi, Toureg TDi
- oil filter wrench 38 mm: for Opel Astra, Zafira 2.0 / 2.2 dti



Item #
8677

## Special Ratchet Ring Spanner for Oil Filter change | for PSA, Ford 2.0, 2.2 TDCI, HDI 12.5

- size: 27 mm, with adjustable head
- 12.5 mm (1/2") drive

**suitable for loosening / fastening of oil filter housing on e.g. following models:**

- Ford 2.0 TDCi (DW10C) as of 2010
- Ford 2.2 TDCi (DW12C) as of 2010
- Citroen / Peugeot 2.2 HDI (DW12C) as of 2010
- Citroen / Peugeot 2.0 HDI (DW10C) as of 2009
- Jaguar XF 2.2D as of 2012

- to be used as OEM 303-1579



Item #
8979

## Oil Filter Wrench | 12-point | Ø 27 mm | for Ford, PSA

- 12-point model with 12.5 mm (1/2") drive
- suitable for the following models:
  - Ford Duratorq 2.0 / 2.2 TDCI with engine codes DW10C and DW12C
  - PSA 2.0 and 2.2 HDI, e.g. in S-Max, Mondeo, Galaxy car models



Item #
1044

## Oil Filter Wrench | 12-point | for Haldex coupling on VW All-Wheel Drive | 46 mm

- 12-point 46 mm
- suitable for VW 4-wheel manual transmission

Item #
1048



## Oil Filter Wrench | 12-point | for Renault | 76 mm

- for Renault EF34 oil filters 76 mm 12-point
- stuck oil filters can be easily loosened due to extra long handle
- suitable for the following models:
  - Renault Twingo R5, Rapid sedan with C, Clio, Kangoo petrol-R12
  - Espace III, Laguna sedan with F petrol engines, Megan Kangoo with K petrol engines, R21 Espace I + III F petrol engines and Traffic with J petrol engines
  - Ford Diesel 1.8 Motorcraft filter and EFL344
  - Peugeot with Purflux Filter

Item #
8259



## Oil Service Wrench | for Audi A4 / A6, BMW

- hexagon 19 mm x M16 spline with central bore
- length: 240 mm
- surface finish: satin chrome plated

Item #
8727



## Oil Service Wrench | 17 mm x H14

- hexagon 17 mm ring wrench with 14 mm internal hexagon bit, slightly angled
- length 235 mm
- surface finish: satin chrome plated

Item #
8728



## Oil Drain Adaptor Hose for Oil Filter Cartridges | for Toyota, Lexus

- suitable for Toyota and Lexus
- prevents oil contamination when replacing filter cartridges
- by mounting the hose on the oil filter housing lid, emptying of the oil filter housing prior to changing the filter is possible

Item #
1401



## Oil Filter Drain Hose for Oil Filter Cartridges | for VAG 1.8, 2.0 petrol

- opens a valve when screwing in the oil filter housing
- allows a controlled and clean oil discharge from the oil filter housing

### suitable for:

- VAG 1.8 and 2.0L petrol engines with engine codes AXW - BLX - BLR - BLY - BVX - BVY - BVZ
- Audi A3 / A4 / A6 / TT
- VW Golf V Passat / Touran / New Beetle / EOS / Jetta III
- Seat Altea / Leon / Octavia / Toledo

Item #
9000



## Universal Oil Filter Wrenches | 12.5 mm (1/2") Drive

12.5 mm 1/2"

- universal, can be used for many filters
- spring loaded, self contracting

Item #	Description
8395	Universal Oil Filter Wrench   12.5 mm (1/2") Drive   Ø 60 - 80 mm
8396	Universal Oil Filter Wrench   12.5 mm (1/2") Drive   Ø 80 - 98 mm
8390	Universal Oil Filter Wrench   12.5 mm (1/2") Drive   Ø 110 - 140 mm



## Oil Filter Wrench, 3-arm | for Oil Filter Ø 50 - 100 mm

12.5 mm 1/2"

- surface finish: chrome plated

Item #
1031



## Oil Filter Wrench, 3-arm | for Oil Filter Ø 69 - 135 mm

10  3/8

- for filters with a diameter between 69 - 135 mm
- incl. adaptor 12.5 mm (1/2") to 10 mm (3/8"), with 21 mm outside hexagon

Item #
1030



## Air Filter Wrench, 3-arm | for Oil Filter Ø 95 - 150 mm

12.5  1/2

- for loosening granulate air dryer cartridges in trucks

Item #
1032



## Oil Filter Wrench, 3-arm | for Oil Filter Ø 115 - 160 mm

12.5  1/2

- for oil- and air filters
- right and left handed, for tightening and loosening
- for cartridges Ø of approx. 115 - 160 mm
- 60 mm arm length
- extra heavy duty design, 1325 g

Item #
1049



## Oil Filter Removal Tool

- for disassembly of oil filters 55 - 95 mm
- oil filter wrench with square and hexagon drive
- handwheel for loosening and tightening
- replaceable legs in different lengths
- 150 Nm capacity for stuck filters

Item #
8596





## Locking Pliers for Oil Filters | Ø 53 - 115 mm | 230 mm

- forged
- length: 230 mm
- surface finish: nickel plated
- max. clamping width: 115 mm
- min. clamping width: 53 mm

Item #
1038



## Special Oil and Fuel Filter Pliers with swivel Jaws

- jaws can be inclined up to 90° in both directions for easy removal of oil and fuel filters
- ideal for loosening filters in hard-to-reach areas that can not be loosened with common oil filter pliers
- jaws adjustable in 4 positions every 45° to achieve a larger area of application
- two-stage pliers opening makes a large working range possible: 57 mm to 120 mm
- slipping around of the filters is avoided by 6 heavy claws on each jaw

Item #
8271



## Oil Filter Pliers | self-adjusting | Ø 60 - 120 mm

- adapts automatically to the oil filter
- suitable for oil filter diameters from 60 to 120 mm
- PVC dipped handles
- length: 300 mm

Item #
8902



## Oil Dipstick Set | for Mercedes-Benz

- 4 dipsticks for measuring the oil of the engine and the transmission
- absolutely necessary after changing the oil, because vehicles are delivered without oil gauges
- suitable for the following engines
  - 1010-A (length: 1220 mm): for transmission oil, transmission type 722.6
  - 1010-B (length: 920 mm): for transmission oil, transmission type 722.7, 716.5
  - 1010-C (length: 930 mm): for engine oil, engine codes: 103.943/984/985, 104, 111, 119, 120, 137, 603.913/963/97, 604, 605, 606, 611, 612, 613, 628, 612.965
  - 1010-D (length: 930 mm): for engine oil, engine codes M112, 113, 646, 647, 648



Item #	Description
1010	Oil Dipsticks Set   for Mercedes-Benz   4 pcs.
1010-A	Transmission Oil Dipstick   for Mercedes-Benz   transmission Type 722.6
1010-B	Transmission Oil Dipstick   for Mercedes-Benz   transmission Type 722.7, 716.5
1010-C	Engine Oil Dipstick   for Mercedes-Benz M137, 611, 612, 613
1010-D	Engine Oil Dipstick   for Mercedes-Benz M112, M113, M646, M647, M648



## Oil Dipstick | for Audi and VW with Oil Level Indicator

- suitable for Audi and VW models with oil level indicator in the display
- an unnoticed defect of the display without manual oil level check could cause engine failure
- useful tool after exchange of the oil sensor or to calibrate the driver's display
- fits the following engines: 3.0 and 2.7 L TDI - 2.0 TDI - 1.8 and 2.0 TFSI - 3.0 and 3.2 TFSI
- setting table for measuring stick included
- to be used as OEM T40178

Item #
1052



## Transmission Oil Dip Stick for Audi A6

- suitable for the following Audi A6 / 100 models (without dipstick):
  - 4A, C4 (12.1990 - 07.1994)
  - 44, 44Q, C3 (08.1982 - 11.1990)
  - 43, C2 (06.1976 - 07.1982)
  - C1 (01.1970 - 12.1976)

Item #
8517



## Engine / Transmission Oil Dipstick for MINI Cooper S R53 and R52

- for gearbox and engine oil level measurement
- corrosion-resistant coated dipstick
- dipstick length: 570 mm
- length: 625 mm



Item #
8967



## Oil Suction Pump | 12 Volt

- max. flow rate for engine oil approx. 0.2 l / min (at 40 ° C oil temperature)
- ideal equipment for quick and clean oil changes
- the oil pump works by connecting the clamps to the 12-V car battery
- can remove 100% of the used oil if inserted through the dipstick opening with a diameter of 6 mm
- complete with all necessary accessories
- max. suction height 70 cm
- not suitable for fuel and other easy flammable fluids



Item #
9910



## Oil Suction Pump | volume 200 cm³

- for suction of small amounts of gear and clutch oil



Item #
4065



## Oil Barrel Pump with Lever

- for pumping liquids from barrels
- suitable for oil, antifreeze, etc. (not for fuel)
- for barrels up to 200 liters
- self-adjusting telescopic suction tube
- pumps about 300 ml per stroke
- with 2 "NPT thread



Item #
8343

## Rotary Drum Pump

- with standard barrel adaptor
- variable depth of immersion up to 100 cm
- 26 mm outlet pipe
- suitable for oil and other non-corrosive liquids
- output: max. 278 cm<sup>3</sup> per crank rotation



Item #
8345

## Air Pressure Pump for Oil Barrels

- for easy extraction of oil from barrels
- suitable for barrels up to 200 l
- simple and easy to operate
- for all non-corrosive liquids
- air inlet: 6.3 mm (1/4")
- recommended air hose Ø 9.5 mm
- operating pressure: 2 - 7 bar
- extraction hose: Ø 12.7 mm
- flow rate 2 - 11 l/min
- oil viscosity: 0 - 120
- not suitable for fuel and other easy flammable fluids



Item #
9210

## Lever Pump for Plastic Barrels

- for transferring liquids from plastic barrels with screw connection, 56.5 - 58.5 mm
- suitable for oil, coolant, etc.
- oil-resistant flexible hose
- with non-drip nozzle and a drain back nozzle holder
- self-priming down-stroke style pump
- flow capacity: 0.06 l/stroke
- max. medium temperature 60 °C
- suction pipe length: 325 mm
- hose length: 1.27 m



Item #
8754

## Digital Battery Load Tester

- for testing vehicle batteries, charger and starter systems
- suitable for 12-V batteries with cold start current from 200 to 1000 A
- 3-digit digital voltage display
- battery condition is shown via 3 LEDs
- load current: 125 A
- test cable length: 480 mm
- length: 290 mm
- width: 170 mm
- height: 90 mm
- weight: 1.2 kg

Item #
63502



## Digital Battery Load Tester

- big 3-digit LED-Digital-display
- quick indicator (3 LED lights) for battery power status
- fixed current load - 100 Amps
- max. capacity of battery to be tested 200 Ah / 1,000 CCA
- battery voltage: 12 V

Item #
63500



## Car Battery Charger | 12 V

- for 12-V batteries (cars / motorcycles / boats)
- used for charging lead acid batteries 1.2 Ah to 120 Ah
- overload, short circuit and wrong polarity protection
- fully automatic charging and protection against sulphate collection
- prolonged connection possible for continued charging and battery maintenance
- CPU-controlled
- input voltage: 220 - 240 V / 50 - 60Hz
- rated output voltage: 12 V / 3.6 - 4.0 A
- charging voltage: 14.4 V / 0.8 A (mode 1) - 14.4 V / 3.6 A (mode 2) - 14.7 V / 3.6 A (mode 3)
- charging current: 3.6 A

Item #
63505





## Battery and charger system tester

- for fault diagnosis of 12-V battery and charging systems
- easy to use, just connect and check indicator lights
- LEDs are electronically controlled
- 3 LEDs for battery test: LED red = battery empty or defective / LED yellow = battery OK / LED green = battery very good
- 3 more LEDs for alternator test: LED green = charging system OK / LED yellow = charging system OK (maximum charging voltage) / LED red = charging system is not OK (it may damage the battery and other parts of the electric system)



Item #
2189



## Battery Filler | 2 litres

- for filling batteries
- suitable for distilled water
- outlet with adjustable flow
- automatic stop prevents overfilling of batteries



Item #
9926

## Battery Filler

- for suction and filling of liquids
- particularly suitable when charging batteries



Item #
9989



## Round Battery Terminal Set

- round cable holder with 2 clamping screws
- includes 1 plus and 1 negative pole terminal
- material: brass



Item #
1408



## Car Battery Disconnect Adaptor | flat

- for disconnecting the battery when not used for a prolonged time period
  - can also be used to prevent theft of a car
- suitable for batteries with flat terminals
- max. current: 250 A

Item #
1416



## Car Battery Disconnect Adaptor

- for disconnecting the battery when not used for a prolonged period, can also be used to prevent theft of a car
- electrical isolation of the negative battery pole
- suitable for batteries with round terminals
- max. current: 250 A

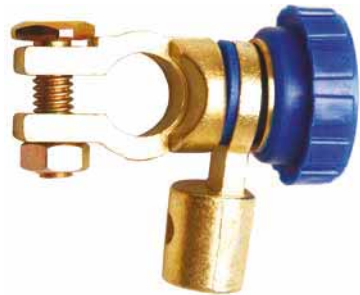
Item #
1414



## Car Battery Disconnect Adaptor | angled

- for disconnecting the battery when not used for a prolonged time period, can also be used to prevent theft of a car
- electrical isolation of the negative battery pole
- suitable for batteries with round terminals
- max. current: 250 A

Item #
1415



## Emergency Battery Switch | 300 A

- for separating the battery from the electrical system
- is used in motor sports, construction machines etc.
- prevents battery drain
- 2 mounting holes
- protective cap prevent entry of moisture
- incl. 2 keys with hole for operating cable

Item #
80756



## Brake Fluid Tester

- 4 LED display for showing the condition of the brake fluid
- suitable for brake fluids DOT3, DOT4, DOT5.1
- not suitable for brake fluid DOT5
- warning if battery is empty
- 9-V monoblock battery

Item #
63525



## Brake Fluid Tester

- for safe testing of brake fluids
- 6 LEDs for brake fluid condition indication
- suitable for the following brake fluids: DOT 3, DOT 4, DOT 5.1, Pennzoil DOT 3, Motorcraft DOT 3, AC Delco DOT 3, Prestone DOT 3, Toyota DOT 3
- with LED lighting
- battery: 1.5 V AAA (included)

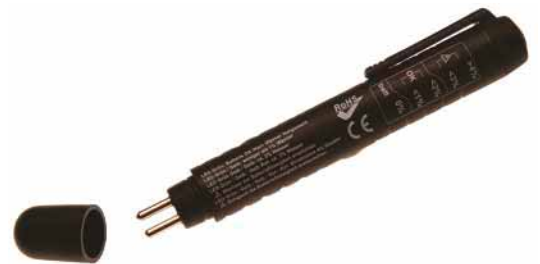
Item #
67242



## Brake Fluid Tester

- high accuracy and reliability
- test results are displayed on 4 LEDs
- with protective cap to protect the sensors
- works on a 1.5 V AAA battery (included)
- easy to use, switch on, insert sensors into the brake fluid, read result
- suitable for brake fluids DOT3, DOT4, DOT5.1
- not suitable for brake fluid DOT5
- diameter: approx. 20 mm
- length: 150 mm

Item #
67241



## Electronic Brake Fluid Tester

- determines the percentage of water in the brake fluid quickly and easily
- immediate indication of the test results via diodes:
  - green =< 1.5 % water
  - yellow 1.5 - 3 % water
  - red > 3 % Wassergehalt
- suitable for brake fluids DOT3, DOT4, DOT5.1
- non-compatible with brake fluid DOT5
- with automatic power off
- incl. battery

Item #
67240



## Gas Detector

- detects methane, isobutane and propane gas
- easily pinpoints gas leaks
- calibrates automatically when power is on
- auto power off to save battery life
- LED chain in five levels to indicate the gas concentration
- over 440 mm long flexible probe for measuring gas concentrations
- built in earphone jack
- mute function (device OFF)
- probe: semiconductor
- response time: under 10 seconds
- warm up time: max. 60 seconds
- operating temperature: -5°C to 45°C
- measuring range: methane 120 - 1920 ppm / propane 40 - 640 ppm
- also suitable for car LPG gas



Item #
2198



## Forming Gas Leak Detector

- for leakage testing of air conditioners that have been filled for test purposes with forming gas (forming gas = mixture of 5% Hydrogen H<sub>2</sub> + 95% Nitrogen N)
- allows quick and reliable leakage detection
- microprocessor control with advanced digital signal processing
- tricolor LED bar indicator
- adjustable sensitivity
- low battery indication
- semiconductor gas sensor
- flexible stainless probe, length: 40 cm
- automatic zeroing and compensating of ambient concentration
- sensitivity: less than 5 ppm
- alarm method: buzzer, LED bar
- battery life: approx. 7 hours (normal use)
- automatic power off
- dimensions: 173 x 66 x 56 mm
- weight approx. 400 g
- warm-up time: approx. 45 sec.
- operating temperature: 0 - 40°C
- 4 pcs. batteries (AA), user manual, carry case



Item #
3401



## Air Condition Pressure Gauge

- includes high- and low pressure hose and connection hose for service devices
- gauges are protected in an aluminum housing
- shut-off valves for high and low pressure
- if the quick couplings are not used on air pressure hoses, they can be attached to the side blind connectors for protection
- with hooks
- hose length 1.5 m
- suitable for R12 und R134A
- scale value on low pressure dial gauge: 0 to 350 PSI (vacuum: 10 to 30 in Hg) (-40°C to +37°C)
- scale value on high pressure dial gauge: 0 to 500 PSI (0°F to 190°F) (-10°C to + 88°C)
- ideal replacement item for defective gauges on service devices, can also be used for diagnosis without service devices



Item #

8425

## Air Condition Leakage Tester

- for easier leak detection on cars, trucks, and other air conditioners
- suitable for refrigerants: R134a, R12, R11, R500, R503, R22, R123, R124, R502, R404a, R125, AZ-50, HP62, MP39
- visual and audible signal upon detection of a leak
- adjustable sensitivity
- working mode: continuous and no limit
- short reaction time
- size: 22.9 x 6.5 x 6.5 cm
- weight: 560 g
- power requirement: 3 V DV (2 x 1.5 V)
- special length: 355 mm



Item #	Description
8557	Air Condition Leakage Tester
8557-1	Spare Probe for BGS 8557



## Coating Thickness Gauge

- digital display with backlight
  - one-hand operation
  - measuring range: 0 - 40 mils / 0 - 1000  $\mu\text{m}$
  - resolution: 0.1 mils / 0.1  $\mu\text{m}$
  - accuracy:  $\pm 4$  dgts (0 - 7,8 mils)  $\pm 7$  dgts (0 - 199  $\mu\text{m}$ )
  - response time: 1 sec
  - auto hold function
  - automatic power off
  - delivered with bag, battery, calibration pad & manual
- BGS 2193, measures the thickness of the paint layer on all surfaces of ferrous metals (e. g. sheet steel)
  - BGS 2197, measures the thickness of the paint layer on all surfaces made of ferrous and non-ferrous metals (e. g. aluminum, steel, copper, brass, etc.)



Item #	Description
2193	Coating Thickness Gauge   for Iron Metals
2197	Coating Thickness Gauge   for Iron and Non-Iron Metals



## Coating Thickness Gauge

- allows measurements of paint and plastic coating thickness on metal surfaces
- ideal for the vehicle trade, improper bodywork repairs can be quickly found without much effort
- output via 3-colour LEDs: red LED: paint thickness is greater than 1.8 mm, yellow LED: paint thickness is between 1.0 to 1.8 mm, green LED: paint thickness is less than 1.0 mm
- comparison measurements are possible on a reference base
- measuring head protected by a removable cap
- length: 68 mm
- width: 40 mm
- weight: 50 g

Item #
63535



## Carbon Dioxide Leak Tester for Engines

- incl. contrast agent
- can be combined with cooler adaptor and vacuum pump BGS 8027-1 and BGS 8098-1

Item #	Description
8037	Carbon Dioxide Leak Tester for Engines
8037-1	Contrast Agent   for BGS 8037



## Ultrasonic Leak Detector for Gas, Air, Water Tanks

- for a reliable detection of leaks in closed, pressurized and non-pressurized pressure and vacuum tanks
- consisting of ultrasonic transmitter, receiver and headphones
- with visual and audible indication
- frequency response: 40 kHz  $\pm$  2 kHz
- temperature range 0 °C to 40 °C
- relative humidity: max. 80%
- battery: 9 V, 6F22 or equivalent
- size 192 x 50 x 30mm
- weight: about 115 g (including battery)



Item #
63524



## Oil Pressure Test Kit

- helps to locate faults in the oil pump system
- scale measuring 0 – 10 bar (tolerance  $\pm$  5 %)
- with many adaptors:
  - R 1/8" DIN 2999 - 1/8"x27 NPT - 1/4"x18 NPT - 3/8"x20 UNF - 1/2"x20 UNF
  - M10x1.0 - M12x1.5 - M14x1.5 - M16x1.5 - M18x1.5 - 90°



Item #
8007

## Fuel Pressure Gauge | 0 - 8 bar

- all purpose set with precision manometer (0.03 - 8 bar) (tolerance  $\pm$  2 %)
- for mechanic and electronic fuel injection systems
- 30 adaptors make this set suitable for nearly all european, asian and american car brands, such as: Mercedes-Benz, BMW, Audi, Honda, Mazda, Renault, Peugeot etc.
- can be used for nearly all injection systems, e. g.: K-Jetronic, L/LH-Jetronic, Motronic, Motronic-Jetronic MPFI, TBI, EFI, DIGIFANT 1/2, CIS-Digital, Weber CFI Spi, Singlepoint, Multipoint
- easy checking of leak tightness, system and control pressure due to 3-way valve
- incl. 5 hoses, each with coupling on both sides



Item #	Description
8026	Fuel Pressure Gauge   0 - 8 bar
8026-1	Gauge with Connectors for BGS 8026

## Compression Tester for Diesel Engines

- included various adaptors (for glowplugs and injector nozzles) make this kit useful for many car types
- suitable for nearly all brands, such as: BMW, Mercedes-Benz, Ford, VW, Toyota, Renault, Volvo, Mazda, PSA, Opel, Nissan, Vauxhall
- 1 manometer 0 - 70 bar, accuracy +/- 5 %
- 1 angled adaptor
- 5 glow plug adaptors:
  - M10 x 1.25 mm, 114.5 mm long
  - M10 x 1.0 mm, 119 mm long
  - M10 x 1.25 mm, 73.5 mm long
  - M12 x 1.25 mm, 54 mm long
  - M14 x 1.25 mm, 72 mm long
- 3 injector adaptors:
  - M20 x 1.5 mm, 78 mm long
  - M24 x 2.0 mm, 65 mm long
  - Ø 21 mm, 114 mm long
- 1 stanadyn injector adaptor: Ø 19 mm, 112 mm long

Item #	Description
8008	Compression Tester for Diesel Engines
8008-1	Pressure Meter for BGS 8008
8008-2	Adaptor for BGS 8008   for Bosch   M10 x 1.0 mm
8008-M10K	Adaptor for BGS 8008   short   M10 x 1
8008-M10X1.0	Adaptor for BGS 8008   M10 x 1
8008-35	Compression / Pressure Loss Adapter   for Ford, PSA, Jaguar, Mazda
8008-52	Compression / Pressure Loss Adapter   for Citroen, Jaguar, Peugeot, Volvo
8008-55	Compression / Pressure Loss Adapter   for Mercedes-Benz
8008-56	Compression / Pressure Loss Adapter   for Smart
8008-69	Compression / Pressure Loss Adapter   for PSA
8008-70	Compression / Pressure Loss Adapter   for VAG
8008-72	Compression / Pressure Loss Adapter   for FIAT Ducato



## Compression Tester for Petrol and Diesel engines

- compression pressure testing up to 50 bar (725 psi) possible
- quick coupling in straight or angled version
- glow plug adaptors for the following brands: Alfa, BMW, Chrysler, Daewoo, Fiat, Ford, Hyundai, Isuzu, Land Rover, Mazda, Mercedes-Benz, Mitsubishi, Nissan, Opel, PSA, Renault, Saab, Suzuki, Toyota, VAG, Vauxhall and Volvo
- injector adaptors M20, M22, M24 and Stanadyne injectors for Ford
- spark plug adaptors M10, M12, M14 and M18
- suitable for most cars, trucks, buses, agricultural and marine engines

Item #
8400





## Petrol & Diesel Engine Compression and Leakage Test Kit

- suitable for most petrol and modern HDi, TDCi, pump injector and older diesel engines
- compression pressure testing up to 50 bar (725 psi) possible
- quick coupling in straight or angled version
- all gauges with rubber protection
- glow plug adaptors for the following brands: Alfa, BMW, Chrysler, Daewoo, Fiat, Ford, Hyundai, Izusu, Land Rover, Mazda, Mercedes-Benz, Mitsubishi, Nissan, Opel, PSA, Renault, Saab, Suzuki, Toyota, VAG, Vauxhall and Volvo
- injector adaptors M20, M22, M24 and Stanadyne injectors for Ford
- spark plug adaptors M10, M12, M14 and M18
- suitable for most cars, trucks, buses, agricultural and marine engines
- additional pressure gauge for pressure drop test



Item #
8401

## Digital Compression Tester for Petrol Engines

- for compression measurement with hose adaptor or rubber-cone measuring tube
- spark plug thread adaptor: M10x1.0 - M12x1.25 - M14x1.25 - M18x1.5
- 63 mm gauge with LCD-display
- switchable units (psi, bar, kpa)
- pressure memory for up to 12 cyl.
- pressure range 0.1 - 20.6 bar (2.0 - 299.5 psi)
- resolution: 0.05 bar, 0.5 psi, 5 kpa
- automatic zero pressure calibration
- switchable backlight
- automatic off function, saves battery
- battery: 9V



Item #
8980

## Vacuum and Fuel Pump Tester

- for checking mechanical fuel pumps, fuel lines and for leakage test on throttle valves, intake manifolds, vacuum hoses, etc.
- pressure / vacuum gauge with rubber bumpers and hanging hook, Ø 89 mm
- includes flexible hose and adaptor
- vacuum measuring range: 0 - 28 in HG (0 - 70 cm HG)
- pressure measuring range: 0 - 0.7 kg/cm<sup>2</sup> (0 - 10 psig)



Item #
9069

## Pressure Loss Testing Kit | 7 pcs.

- for checking pressure tightness of single cylinders on diesel and gasoline engines
- includes dial indicator
- adaptor M12 x 1.25 mm for motorbikes
- adaptor M10 x 1.00 mm for motorbikes
- adaptor M24 x 2 mm for diesel engines
- adaptor M12 x 1.25 mm with 7 mm hole for VW diesel engines
- adaptor for multi valve engines
- adaptor for M14 x 1.25 and M18 x 1.5 mm
- working pressure: 6 - 12 bar

Application note: Before connecting to compressed air system the adjusting valve must be closed. Connect the device to the compressed air system and open the adjusting valve slowly until the pointer reaches the 0-mark!

Item #	Description
62645	Pressure Loss Testing Kit   7 pcs.
62645-1	Gauge for BGS 62645



## Compression Tester

- 300 mm long, flexible test hose
  - large (Ø 70 mm) easy to read scale - accuracy: +/- 3 %
  - gauge range: from 0 to 21 bar / 21.5 kg/cm<sup>2</sup> / 300 PSI
  - blow off valve
  - to probe engine valve and piston rings
- 
- BGS 8235: suitable for motorcycles and cars with M10 mm or M14 mm spark plug
  - BGS 8236: suitable for motorcycles and cars with M12 mm or M14 mm spark plug
  - BGS 8005: suitable for motorcycles and cars with M14 mm or M18 mm spark plug
- 
- Application note: Shut down power of ignition coil before working with this tool!



Item #	Description
8235	Compression Tester   M10 + M14
8236	Compression Tester   M12 + M14
8005	Compression Tester   M14 + M18
8005-10	Adaptor for Compression Tester   for BGS 8005, 8235, 8236   M10 x 1.0
8005-12	Adaptor for Compression Tester   for BGS 8005, 8235, 8236   M12 x 1.25





## Compressed Air Cylinder Adaptor | M14 and M18

- for filling the cylinder with compressed air
- is used when removing valve springs without removing the cylinder head
- for acoustic leak testing of valves, piston rings, head gaskets, etc.
- suitable for spark plug threads M18 x 1.5 and M14 x 1.25
- also can be used in combination with BGS 1781, 1873, 1777 and 1762



Item #
8526

## Compressed Air Adaptor Set for Glow Plug Holes | M8 x 1.0, M10x1.0, M10x1.25 | 3 pcs.

- to screw in the glow plug bores
- for filling the combustion chamber with compressed air
- required when removing / installing valve springs on installed cylinder heads and for pressure loss diagnosis
- 1 pneumatic adaptor for glow plug holes M8 x 1.0 for Citroën, Fiat, Ford, Lancia, Opel, Mercedes-Benz, Suzuki, Volvo
- 1 pneumatic adaptor for glow plug holes M10 x 1.0 for BMW, Chrysler, Opel, Mercedes-Benz, Nissan, Renault
- 1 pneumatic adaptor for glow plug holes M10 x 1.25 for Toyota, Lexus



Item #
9519

## Gear Box Compression Test Kit

- for professional diagnosis of automatic gear mechanism
- long test hoses allow test from the driver's seat
- suitable for the following automatic gears:
  - VW, Mercedes-Benz, Honda, Hyundai, almost all series
  - Audi, VW 003, VW 010, VW 097, almost all ZF gears
  - BMW Borg Warner 65; almost all ZF gears
  - Chrysler A-Series rear-wheel drive, 32, 36, 42, 44, 46 RH + RE, A-series rear, 42LE, KM series, F3A
  - AMC / Eagle A604/41, 42LE, KM series, W4A32-1 ZF gears (Eagle Premier), MB-1, AR4, MJS (Renault), AW-4
  - Jeep A904, A999, A500, A518, A727, 30, 32RH Turbo HyDRY-Matic TH400
  - Ford A4LD, AOD, AXOD, ATX, C3, C4, C5, C6, AODE, E40D, 4R70W, 5R55E, AOT, Mazda gears 4EAT
  - GM Turbo Hydra-Matic, AL60E, 4L80E, AT60E Aisin Warner MX-1 + MS-7, JATCO KF-100
  - Isuzu Borg-Warner BW-35, AISIN Warner BW-35 JATCO F3A/F10, Hydra-Matic TH4L30E, 4L60E
  - Jaguar ZF gears, Borg-Warner 65, Hydra-Matic
  - Mitsubishi AISIN Warner, KM series, JATCO, torque Lite
  - Peugeot ZF gears, Mazda JATCO, Ford A4LD
  - Porsche 010 VW, ZF gears
  - Saab Borg-Warner 37, ZF gears
  - Toyota AISIN Warner A-20 + A-30, almost all models
  - Volvo AISIN Warner, Borg Warner, ZF gears
- high-pressure pressure gauge 0 - 500 PSI (0 - 35 bar), diameter 60 mm, hose length: 350 cm
- pressure gauge 0 - 100 PSI (0 - 7 bar) diameter 60 mm, tube length 200 cm
- 230 mm hose adaptor 1/8-27 to 1/4", quick coupling
- Adaptor:
  - 1/8-27 - M10x1.0
  - 1/8-27 - 1/16-27 NPT
  - 1/8-27 - 5/16-24 NF
  - 1/8-27 - M8x1.25
  - 1/8-27 - M8x1.0
  - 1/8-27 VW Audi
  - 1/8-27 - 1/8-28 BSPT
- adaptor internal thread 1/8-27 - external screw thread 1/4-18 NPT
- elbow: 1/8-27 - 90° + 1/8-27 - 45°
- adaptor 1/8-27, length: 50 mm



Test Devices

Item #
8028

## Precision Straight Edge | 600 mm

- suitable for engines with up to 6 cylinders
- for using in combination with a feeler gauge
- tolerance: - 0.05 mm
- length: 600 mm
- width: 16 mm
- height: 36 mm
- material: steel (S50C)



Item #
8397

## Measuring Cable and Probe Set | 92 pcs.

- suitable for all multimeters with 4 mm test socket
- for checking all types of electric circuits
- perfect for checking of car electricity
- 72 testing leads (=36 male and 36 female terminals)
- 2 pcs. 5 KOhm potentiometers (variable resistor)
- 2 LED stroboscopes
- 2 SRS connectors
- 2 alligator clips
- 2 standard probes
- 2 acicular probes
- 2 connectors "1 female to 2 male"
- 4 connectors "1 female to 1 male"



Item #	Description
2186	Measuring Cable and Probe Set   92 pcs.
2186-1	Potentiometer   for BGS 2186

## Measuring Cable and Probe Set | 92 pcs.

- for professional adaptation of testing equipment such as multimeters, oscilloscopes, simulators, etc. to the vehicle electricity
- facilitates testing works on electrical units by perfect electrical connection
- includes the following test adaptors:
  - 2 potentiometers (5 KOhm), to simulate temperature and throttle position sensors
  - 2 LED test adaptors, for testing voltage and ground signals, example: hall sensors, injectors, solenoid valves, etc.
  - 2 SRS airbag simulators for electrical simulation of airbag and belt tensioner generators
  - 4 test leads with banana plugs on both sides, stackable
  - 4 needle probe
  - 2 probes
  - 2 1-to-2 connectors
  - 2 alligator clips
  - 24 test adaptors with round plugs / round sockets, dimensions 1.5 - 2.0 - 3.5 - 4.0 mm
  - 48 test adaptors with flat plug / flat sockets: sizes: 0.7 - 0.8 - 1.2 - 2.0 - 2.5 - 3.0 - 5.0 - 6.0 mm
- suitable for the most vehicles from Europe, America and Japan

Item #
2184



## Universal Line and Accessories Assortment | 15 pcs.

- for use with multimeters, testing lights etc.
- 2 cables each 100 and 50 cm, red and blue
- 2 colored LED testing leads for polarity test
- 1 wire piercing probe
- 4 needle testing cables, red and black
- 2 testing tips, red and black
- 2 crocodile clamps, red and black
- suitable for automotive applications up to 24 V, 10 A

Item #
2185



## Probe Assortment | 16 pcs.

- allows measurement on connectors and components without destroying the insulation or the plug connection
- 4 mm connection for banana plugs
- 4 mm banana plug
- 1.3 mm test needle
- male flat plug adaptor: 6.3 - 4.8 - 2.8 - 2.3 - 1.3 and 0.9 mm
- female flat plug adaptor: 6.3 - 4.8 - 2.8 - 2.3 - 1.3 and 0.9 mm

Item #
8516



## Multimeter Test Leads | 4 mm

- suitable for measuring in extra low voltage range
- both sides with 4 mm plugs (stackable)
- 2 measuring cables (red)
- 2 measuring cables (black)
- length: 1000 mm

Item #
8937



## Measuring Gripper with Cable Piercer

- allows measurements on insulated cables
- pierces cables isolations without major damage
- 4 mm measuring cable jack
- includes two measuring grippers: 1 red and 1 black

Item #
8993



## Replacement Probes for Multimeter

- cable length approx. 630 mm
- probe length approx. 125 mm
- suitable for multimeters with 4 mm test sockets
- light type

Item #
2192-1



## Replacement Probes for Multimeter

- cable length approx. 880 mm
- probe length approx. 150 mm
- test tip with protection cap
- suitable for multimeters with 4 mm test sockets
- heavy type

Item #
2194-1



## Glow Plug Analyser | 12 V

- reduces the cost for glow plug testing
- removing of the glow plugs for testing is not necessary
- test results are shown on LED display
- suitable for testing of 12 V glow plugs
- easy to use

Item #
2178





## Digital Clamp Meter

- LCD display, 3 1/2-digit (up to 1999 count)
- reading rate: 3 reading/sec
- polarity indication
- overload indication
- dimensions: (L x W x H) 193 x 73 x 25 mm
- weight: 145 g (incl. battery)
- power requirements: 2 1.5V (AAA)
- incl. storage bag, 2 measuring cables and 2 batteries

### measuring ranges:

- DC voltage: 200 V / resolution: 100 mV, 600 V / resolution: 1 V
- AC voltage: 200 V / resolution: 100 mV, 600 V / resolution: 1 V
- AC current: 2000 mA / resolution 1 mA, 20 A / resolution 10 mA, 600 A / resolution 1 A
- resistance (Ohm): 200 Ohm / resolution 0.1 Ohm , 200 KOhm / resolution 100 Ohm



Item #
2203



## Digital Multimeter with Clamp for DC and AC Current

- designed especially for the automotive sector, but can also be used in other areas
- 3 - 3/4 digits LCD max. display value 3999
- battery: 2 1.5 V AAA or similar
- low battery indicator
- storage condition: from -10°C to +50°C, max. 85% RH
- dimensions: 194 x 71 x 38 mm
- weight: about 215 g (including batteries)
- suitable for category CAT II

### measuring ranges:

- AC and DC voltage measuring ranges: 400.0 mV, 4.000 V, 40.00 V, 400.0 V, 600 V
- resistance: 400 Ohm, 4 KOhm, 40 KOhm, 400 KOhm, 4 MOhm, 40 MOhm
- AC and DC current up to 400 A, smallest measure 100 mA
- indicator for negative polarity and overrange
- max. clamp opening: 33 mm, max. cable: Ø 28 mm



Item #
2202



## Car Voltage and Current Tester | 1 - 48 V

- ideal for the diagnosis of electrical circuits on cars
- this meter is fast, accurate and safe to use
- is used to measure currents (directly to the fuse socket) and voltage
- current measurement: up to 30A at 48 VDC (max. 10 sec.), accuracy:  $\pm 1\%$
- voltage measurement: 1 - 48 VDC, accuracy:  $\pm 1\%$
- working temperature: 0°C to 50°C
- storage temperature: -20°C to 60°C
- humidity: less than 70% RH (working); less than 80% RH (storage)
- max. height: 2000 m
- power supply: 1x 9V battery
- 1 voltage and current meter
- 2 alligator clips (red / black)
- 1 voltage measurement cable with "cigarette lighter plug", length 950 mm
- 1 current measurement cable with fuse adaptor, length 600 mm
- 1 measurement cable (red), insulated connectors on both sides, length 900 mm
- 1 measurement cable (black), insulated connectors on both sides, length 900 mm
- 2 test probes (red / black) with 4 mm banana plugs and non-contact caps



Item #
8890



## Automotive Circuit Tester

- especially useful and handy multimeter with single-handed control
- for testing electric 6 - 24 V systems on cars, trucks and motorcycles
- bright LED guarantees a well lit work space
- easy troubleshooting by applying positive or negative potentials, max. current 10 A, automatically resetting fuse
- potential is indicated by 2 alternatively colored LEDs – comes in handy when testing ignition and injection systems
- built-in continuity tester with optical signal
- 6 meter power supply cable is sufficient for measurements on cars and motorcycles
- additional 6 m extension cord with reverse polarity protection for applications on trucks and trailers
- with reverse polarity protected voltage adaptor for connecting the multimeter with batteries
- with reverse polarity protected voltage adaptor for connecting the multimeter with your vehicle's cigarette lighter



Item #
40100



## Multi-Function Voltage Tester

- especially useful and handy multimeter with single-handed control
- for testing electric 12 - 24 volt systems on cars, trucks and motorcycles
- bright LED guarantees a well lit work space
- easier troubleshooting by connecting from a positive or negative potential, max. current 10 ampere
- automatically resetting fuse
- potential is indicated by 2 alternatively colored LEDs – comes in handy when testing ignition, injection and other pulsed voltage systems
- illuminated display
- built-in continuity tester with optical signal
- frequency measurements up to 8000 Hz
- non-contact measurement of KV ignition test for detecting missing ignition voltage
- 6 meter power supply cable is sufficient for measurements of cars and motorcycles
- 6 meter extension cable for measurements of trucks or trailers
- reverse polarity protected DC power adaptor for connection to battery
- reverse polarity protected DC power adaptor for connection to board socket (Cigarette lighter)
- special tip for measurements on low-lying contacts
- 6 adjustable voltage threshold 0.5 V - 1.0 V - 2.0 V - 5.0 V - 10.0 V - 48 V, as soon as the measured voltage is higher than the preset threshold, an acoustic signal will sound
- the measurement options are selected by push buttons



Item #
40105



## Voltage Detector with Digital Display

- LCD display for AC and DC voltage from 24 V to 690 V
- LED display in following 5 voltage steps: 24 V, 50 V, 120 V, 230 V, 400 V and 690 V
- phase rotation indicator: frequency 50 - 60 Hz / voltage 0 V - 690 V
- continuity tester with acoustic and optical display
- single-pole voltage test
- polarity detection positive / negative (LED display)
- protection class: IP65
- battery test, indicates when the internal battery is weak
- power supply: 2x 1.5 V (R03)
- weight 210 g
- length: 275 mm
- width: 51 mm
- height: 30 mm



Item #
40110



## Digital Car Multimeter with USB Interface

- ideal automotive measuring tool
- suitable for 2 and 4-stroke engines
- illuminated 3 5/6 digit display
- USB port for connection to PC
- auto-range, automatically selects the range size
- relative mode, enables differential measurement
- data hold function, freezes the measured value
- overload indication
- low battery indicator

### measuring ranges:

- DC voltage: 6 V - 60 V - 600 V - 1000 V
- AC voltage: 6 V - 60 V - 600 V - 1000 V
- DC current: 60 mA - 600 mA - 6 A - 20 A
- AC current: 60 mA - 600 mA - 6 A - 20 A
- resistance: 600 Ohm - 6 KOhm - 600 KOhm - 6 MOhm - 60 MOhm
- continuity: buzzer sounds under 20 Ohm
- diode: test current approx. 0.8 mA
- capacity: 40 nF to 4000 uF
- temperature: -20 to 400 °C
- frequency: 10 Hz to 10 MHz
- duty cycle: 0.5 % to 99.9 %
- drive speed: 120 to 20,000 rpm
- dwell: 0° - 90° / 0° - 72° / 0° - 60° / 0° - 45°
- pulse width: 0.5 ms to 20 ms
- temperature probe
- condenser adaptor
- inductive pick up
- 2 measuring cables
- USB cable
- CD with driver/software
- pouch and 9-V battery



Item #
63401



## Digital Multimeter | 3 1/2-digit

- shock resistant plastic protection
- with put-up hinge
- energy-saving LCD display
- data hold button
- power supply: 9V block battery
- suitable for measurements in CAT II area

### measuring ranges:

- DC voltage: 200 mV - 2 V - 20 V - 200 V - 600 V
- AC voltage: 200 V - 600 V
- resistance: 200 Ohm - 2-component Ohm - 20 KOhm - 200 KOhm - 2 MOhm
- DC current: 20 µA - 200 µA - 2 mA - 20 mA - 200 mA - 10 A
- diode forward voltage

Item #
63402



## Digital Multimeter

- 3.5-digit LCD
- low battery indication
- overload protection
- manual range selection
- safety sockets and plugs

### measuring ranges:

- DC voltage: 200 mV, 2000 mV, 20 V, 200 V, 250 V
- AC voltage: 200 V, 250 V
- DC current: 200  $\mu$ A, 2000  $\mu$ A, 20 mA, 200 mA, 10 A
- resistance: 200 Ohm, 2000 Ohm, 20 kOhm, 200 kOhm, 2000 kOhm
- audible continuity sounds under 50 Ohm
- diode test with forward voltage reading



Item #
63400



## Digital Multimeter | 3 1/2-digit

- suitable for measurements in CAT II area
- 3 1/2 digit, 7 segments, 12.5 mm LCD
- indication for overflow, polarity and low battery voltage
- measuring ranges for resistance, AC voltage, DC voltage, diode voltage drop and hFE transistor measurements
- operating temperature: 10°C ~ 40°C, 0 ~ 75 % relative humidity
- power supply: 2 1.5 V AAA battery
- weight: 140 g (incl. battery)

### DC voltage measuring ranges:

- 200 mV, resolution: 10  $\mu$ V, accuracy:  $\pm 0.5$  % +10 digit
- 2000 mV, resolution: 1 mV, accuracy:  $\pm 1$  % +5 digit
- 20 V, resolution: 10 mV, accuracy:  $\pm 1$  % +5 digit
- 200 V, resolution: 100 mV, accuracy:  $\pm 1$  % +5 digit
- 600 V, resolution: 1 V, accuracy:  $\pm 1.2$  % +5 digit

### AC voltage measuring ranges:

- 200 V, resolution: 10 mV, accuracy:  $\pm 0.5$  % +10 digit
- 600 V, resolution: 1 V, accuracy:  $\pm 0.5$  % +10 digit

### DC current measuring ranges:

- 200  $\mu$ A, resolution: 100 nA, accuracy:  $\pm 1.8$  % +2 digit
- 2000  $\mu$ A, resolution: 1 nA, accuracy:  $\pm 1.8$  % +2 digit
- 20 mA, resolution: 10  $\mu$ A, accuracy:  $\pm 1.8$  % +2 digit
- 200 mA, resolution: 100  $\mu$ A, accuracy:  $\pm 2$  % +2 digit
- 10 A, resolution: 10 mA, accuracy:  $\pm 2$  % +10 digit

### resistance measuring ranges:

- 200 Ohm, resolution: 0.1 mOhm, accuracy:  $\pm 1$  % +10 digit
- 2000 Ohm, resolution: 1 Ohm, accuracy:  $\pm 2$  % +4 digit
- 20 KOhm, resolution: 10 Ohm, accuracy:  $\pm 2$  % +4 digit
- 200 KOhm, resolution: 100 Ohm, accuracy:  $\pm 2$  % +4 digit
- 2000 KOhm, resolution: 1 KOhm, accuracy:  $\pm 2$  % +4 digit

- length: 126 mm
- width: 70 mm
- height: 24 mm

Item #
9074





## Fuse Tester

- suitable for mini, standard and maxi fuses
- LED does not light if fuses are damaged
- with clip for fuse removal



Item #
8468



## Digital Current Tester for Fuse Contact

- current measurements directly at the fuse box of cars and trucks
- helps to e. g. find "hidden" currents
- application: to measure, remove the original fuse and connect the tester plug
- protection of the circuit is still provided by a fuse in the tester
- plugs both for mini fuse and standard fuse sockets
- suitable for 12 V and 24 V systems
- max. current: 20 A



Item #
63520



## Diode Testing Light with LED Display | 3 - 48 V

- allows piercing of insulated cords



Item #
723



## Voltmeter

- 12 - 400 V AC voltage
- 12 - 500 V DC voltage
- 2-poles
- 5-way LED polarity light
- 12 Volt / 50 Volt / 120 - 150 Volt / 220 - 230 Volt / 400 - 500 Volt



Item #
724



## Voltage tester | 120 - 250 V | 140 mm

- with lens and metal clip
- length: 140 mm



Item #
725

## Car Light tester | 6 - 24 V

- with needle with screwable top



Item #	Description
2072	Car Light tester   6 - 24 V
72	Replacement Bulbs for BGS 2072



## Electronic Stethoscope

- easily finds the origin of noises and reduces the diagnosis time
- 1-way amplifier allows fast and uncomplicated acoustic testing. e. g. to test alternators and other parts of the engine
- includes 6-way amplifier and 6 color-coded probes
- allows troubleshooting while driving at various test points
- with alligator clips for easy attaching to the test points
- for mounting on e.g. engine, transmission and axle parts
- headset features a padded headband and ear cups for excellent wearing comfort



Item #
3531



## Electronic Stethoscope

- the stethoscope allows fast and easy locating of noises and helps to find the cause of a motor problems



Item #	Description
3530	Electronic Stethoscope
3530-1	Microphone Main Unit   for BGS 3530

## Electronic Stethoscope

- easily finds the origin of noises and reduces the diagnosis time
- allows fast and uncomplicated acoustic testing, e. g. to test alternators and other parts of the engine
- headset features a padded headband and ear cups for excellent wearing comfort



Item #
3532



## Mechanics Stethoscope

- with steel tip
- suitable for detecting faults in engines, bearings and other moving parts



Item #
3535



## Digital Laser Thermometer | -50°C to 500° C

- accurately measures hot and cold temperatures
- ideal for various applications, helps to detect problems in car engines, heating and cooling systems, production and also in the food industry
- works contactless by infrared laser
- temperature range: -50 to +500°C (58 to 932°F)
- accuracy +/- 1.5 %
- laser wave length: 8 - 14 um, laser class II
- response time approx. 1 second
- distance to spot size D/S 12 : 1
- measuring range can be switched between: °C / °F
- power: 2 1.5V AAA- Batteries, not included in the delivery



Item #
6005



## Digital Thermometer with Stainless Steel Sensor Probe

- wide range of applications, suitable for e.g. air conditioning, food processing, heating and ventilating, agriculture, automobile, photography, food storage, refrigeration, laboratory, etc.
- memory of the last measured value
- low battery display
- sensor fault display
- auto power off after 15 min.
- switch between °C and °F
- temperature range: -50°C to +300°C (-58°F ~ +572°F)
- temperature steps: 0.1 °C
- accuracy: (-20°C - 80°C) +/- 1°C
- power: 1.5 V battery (LR44)
- length of probe: 125 mm
- incl. measuring tip protector with clip



Item #
8714



## Vacuum / Pressure Pump Set

- 2-way: vacuum and pressure
- for brake bleeding
- tests of various under / over-pressure systems  
e. g. turbo-charge pressure tests
- with manometer up to 4 bar (tolerance +/- 5%)
- several accessories



Item #	Description
8067	Vacuum / Pressure Pump Set
8067-1	Vacuum / Pressure Pump   for BGS 8067
8067-2	Replacement Gauge for BGS 8067

## Vacuum / Pressure Pump Set

- suitable for checking pressure and vacuum systems like boost pressure, vacuum solenoid valves, tank vents, MAP sensors, etc.
- also suitable for brake bleeding
- not suitable for fuel system (petrol/diesel)
- 63.5 mm pressure / vacuum gauge
- pressure indicator range: +0 to +3 bar
- vacuum indicator range: -0 to -1 bar
- max. vacuum: -0.7 bar
- max. pressure: 3 bar



Item #
8038

## Wheel Balancing Weight Pliers | 225 mm

- extra narrow gripping profile
- for loosening glued balance weights
- plastic protection head on Hammer head for striking the weights (especially suitable for painted weights)
- plastic protective cap prevents from damaging aluminum rims
- 2 step adjustable for narrow and wide weights
- with blue dipped handles
- self-opening with internal spring

Item #
9500



## Wheel Balancing Weight Pliers | 240 mm

- dip insulated handles
- length: 240 mm
- surface finish: chrome plated

Item #
1539



## Wheel Balancing Weights | 12 x 5 g | 50 pcs.

- total weight: 60 g, can be divided in 5-g steps
- with anti-corrosion coating
- self-adhesive
- material: steel

Item #
8426



## Wheel Balancing Weights | type 363 | 45 g | 100 pcs.

- particularly suitable for aluminium rims
- perfect to use with wheel balancing weight pliers BGS 1539 and scraper BGS 366
- material: zinc
- contents: 100 x 45 g bar
- distribution of each bar 5-10-5-10-5-10 g
- application range: -20°C - +70°C

Item #
9426





## Wheel Balancing Weight Set | 320 pcs.

- for steel rims
- can be used with wheel balancing weight pliers BGS 1539, 9500
- in reusable assortment box
- all sizes individually available, as refill pack
- material: zinc

- 100 x 5 g
- 100 x 10 g
- 20 x 15 g
- 20 x 20 g
- 20 x 25 g
- 20 x 30 g
- 20 x 35 g
- 10 x 40 g
- 10 x 45 g



Item #	Description
9425	Wheel Balancing Weight Set   320 pcs.
9425-5	Balancing Weights   5 g   100 pcs.
9425-10	Balancing Weights   10 g   100 pcs.
9425-15	Balancing Weights   15 g   100 pcs.
9425-20	Balancing Weights   20 g   100 pcs.
9425-25	Balancing Weights   25 g   100 pcs.
9425-30	Balancing Weights   30 g   100 pcs.
9425-35	Balancing Weights   35 g   50 pcs.
9425-40	Balancing Weights   40 g   50 pcs.
9425-45	Balancing Weights   45 g   50 pcs.

## Rim Bore-Circle Callipers, Aluminium Type

- for measuring the hole circle on steel and aluminium rims
- greatly facilitates the determination of the hole circle
- suitable for 3-, 4-, 5- and 6-hole rims

Item #
8367-1



## Rim Bore-Circle Callipers

- for measuring the hole circle on steel and aluminium rims
- greatly facilitates the determination of the hole circle
- suitable for 4 -, 5 -, 6 - and 8-hole rims

Item #
8367



## Digital Tyre Depth Gauge | 0 - 28 mm

- measuring range up to 28 mm
- mm / inch display
- battery included

Item #
1941



## Tyre Pressure Control System Tool Set (TPMS) | 13 pcs.

6.3 1/4

- allows professional installing of tire pressure sensors
- 1 torque wrench, external square 6.3 mm (1/4"), 1 - 6 Nm, accuracy: +/- 3 %
- 1 universal joint, 6.3 mm (1/4")
- 3 bit sockets, 6.3 mm (1/4") drive, T-Star (for Torx): T10 - T15 - T20
- 1 extension bar 6.3 mm (1/4"), 100 mm
- 2 Pro torque® hexagon sockets, 6.3 mm (1/4") drive, 11 and 12 mm
- 1 torque driver for sensors
- 1 valve torque tool
- 1 valve thread cutter
- 1 combination spanner, 10 mm
- 1 pin punch



Item #
8919



## Tyre Pressure Control System Tool Set (TPMS) | 18 pcs.

6.3 1/4

- includes a 1-8 NM torque screwdriver and following 6.3 mm (1/4") tools:
- hexagon Pro torque® deep sockets, 11, 12 mm
- hexagon Pro torque® socket, 6 mm
- bit socket T-Star (for Torx) T20
- adaptor for 6.3 mm (1/4") bits
- sliding bar
- 100 mm extension bar
- 10 bits, 6.3 mm (1/4") drive:
  - slot SL 5.5 - 4.5 mm
  - T-Star (for Torx) T15 - T20
  - cross slot PH1 - PH2 - PH3
  - cross slot PZ1 - PZ2 - PZ3

Item #
8889



## Digital Tyre Pressure Gauge

- measuring range: 0.35 - 7.00 bar
- display reads in: bar, PSI, kPA, kg/cm<sup>2</sup>
- accuracy: +/-1 PSI / 0.07 bar

Item #
2101



## Car Tyre Booster

- tire booster helps filling tires with loose beads as a result of e. g. prolonged storage
- max. pressure: 11 bar, limited by safety valve
- tank capacity: 20 l
- weight approx. 13 kg
- length: 260 mm
- width: 420 mm
- height: 300 mm

Item #
8365



Tyre Service

## Markers | white | 12 pcs.

- for marking tires, metals, etc.
- waterproof

Item #
8822



## Markers | yellow | 12 pcs.

- for marking tires, metals, etc.
- waterproof

Item #
8823



## Colour Coded Tire Deflating Caps for TPMS Valves | 4 pcs.

- no need to remove TPMS valve core
- safe release of the tyre air
- position marks help users to install the tyre back in the same position
- save time, no reset of TPMS system with computer necessary
- thread cup size: 5/16" x 32 UNEF
- pin size: M3 x P0.5
- colour coding
  - red: RF (right-front)
  - blue: RR (right-rear)
  - yellow: LF (left-front)
  - green: LR (left-rear)



Item #
9271

## Wheel Stud Mounting Set

- allows easy mounting without a second person
- for installing following wheel stud sizes: M12 x 1.25 - M12 x 1.5 - M12 x 1.75 - M14 x 1.5 - 7/16" x 20 UNF - 1/2" x 20 UNF
- counterholding tool, prevents rotation of the wheel hub during assembly
- pressure sleeve with bearing for easy mounting
- installation nut 1/2" x 20 UNF
- installation nut 7/16" x 20 UNF
- installation nut M14 x 1.25
- installation nut M12 x 1.25
- installation nut M12 x 1.5
- installation nut M12 x 1.75
- rethreading tool M12 x 1.25
- rethreading tool M12 x 1.5
- rethreading tool M12 x 1.75
- rethreading tool M14 x 1.5



Item #
8879



## Tyre Bead Retainer

- facilitates the installation of tires
- made of durable plastic
- protects aluminum rims



Item #
8658

## Tyre Bead Retainer

- facilitates wheel mounting on rim
- length: 290 mm
- width: 150 mm
- height: 50 mm
- material: fibre glass (30%)

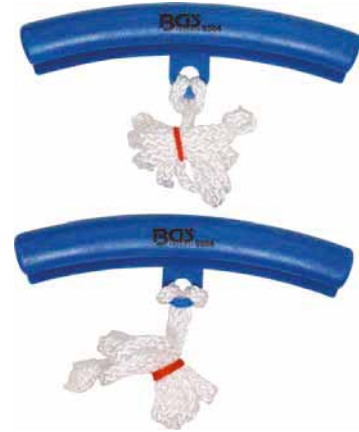
Item #
8655



## Edge Protection Set | 150 mm | 2 pcs

- prevents rim damage when mounting tires
- suitable for motorcycle and car rims
- with cord against loss

Item #
8504



## Loosening Tool for Wheel Nut Covers

- wheel nut caps can be removed without damaging the rims
- especially suitable for aluminum rims
- gripping claws made of spring steel
- T-handle for easy working

Item #
8257



## Special Socket for spare tyre locking mechanism | Toyota, Lexus

- 21 mm x 5-pt
- suitable for impact wrench

Item #
9270



## Round Brush for Tyre Mounting Paste

- diameter 30 mm
- 45° angled head

Item #
4803





## Tyre Fitting Grease | black | 5 kg

- for easy and gentle tire mounting
- suitable for the most tires (not for runflat tires)
- in a bucket

Item #
9382



## Tyre Fitting Grease For Run Flat Tyres | blue | 5 kg

- for easy and gentle tire mounting
- suitable for runflat tires

Item #
9383



## Tyre Lever | Heavy Duty Finish

- suitable as tyre and all-purpose assembling tool
- for fixing and pulling off the tyres
- surface satin chrome plated



Item #	Description
1435	Tyre Lever   250 mm
1436	Tyre Lever   400 mm
1437	Tyre Lever   500 mm
1438	Tyre Lever   600 mm
1439	Tyre Lever   750 mm



## Tyre Lever Set | 300 - 400 - 500 - 600 mm | 4 pcs.

- hardened
- supplied in a wallet
- surface finish: chrome plated

Item #
1548



## Tyre Levers | with Plastic Protection Cover

- for damage free assembly of tires on aluminum rims
- exchangeable plastic pad (thickness 5.5 mm) is attached to steel lever with screws

Item #	Description
1527	Tyre Lever with Plastic Protection Cover   380 mm
1527-1	Spare Plastic Protection Cover for BGS 1527
63150	Tyre Lever with Plastic Protection Cover   500 mm
63151	Spare Plastic Protection Cover for BGS 63150



## Tyre Lever | 380 mm

- hardened
- length: 380 mm
- surface finish: chrome plated

Item #
1540



## Tyre Levers

- hardened
- carbon steel
- surface finish: chrome plated

Item #	Description
1530	Tyre Lever   250 mm
1531	Tyre Lever   400 mm
1532	Tyre Lever   500 mm
1533	Tyre Lever   600 mm
1534	Tyre Lever   750 mm



## Tyre Repair Plugs

- for using with a stitch awl

Item #	Description
8900	Tyre Repair Plugs   102 mm   50 pcs.
8908	Tyre Repair Plugs   204 mm   25 pcs.
8901	Mounting Paste for BGS 8900

8900



8901



## Stitch Awl for Tyre Repair

- for reaming of damaged spot

Item #
8904



## Inserts Installing Tool for Tyre Repair

- for inserting the repaired plugs

Item #
8906



## Tyre Dolly | 200 kg

- suitable for transporting of up to 4 wheels
- wheel buckets facilitate picking up the wheels
- after picking up the wheels, the trolley can be tilted in a user-friendly transport position, the entire weight of the wheels is supported by the transporting frame
- suitable for wheels of cars, SUVs and vans
- 2 wheels with steel rim and 260 mm air tire
- 2 swivel casters with plastic rim and 140 mm rubber tires
- capacity: 200 kg
- length: 1160 mm
- width: 540 mm
- height: 1530 mm

Item #
9025



## Tire Valve Inserting Tool Set | 4 pcs.

- allows economic renewing of tire valve stems without dismantling the tire from rim
- 1 extractor for pulling out the defective valve stems
- 1 mounting tool, consisting of a mounting shaft and cone



Item #	Description
8766	Tire Valve Inserting Tool Set   4 pcs.
8766-1	Replacement Tyre Valve for BGS 8766



## Silent Tyre Deflator

- allows silent air deflating of vehicle tires



Item #
9287



## Tyre Valve Inserting Tool | extra thick Plastic Protection

- for mounting wheel valves
- particularly suitable for aluminium rims, but also suitable for other rims
- plastic protection for damage-free assembly
- length: 260 mm

Item #
9471



## Tire Valve Inserting Tool

- easy assembly of new valves into the valve hole of the rim of tubeless tyres
- suitable for all sorts of rims
- length: 310 mm

Item #
1535



## Tire Valve Inserting Tool

- plastic, perfect for aluminium rims
- length: 285 mm

Item #
1538



## Tyre / Valve Insert Tool | 2 pcs.

- for the assembly of valve inserts
- length: 130 mm

Item #
1536



## Valve Core Torque Tools

- for screwing in rubber-sealing valves
- no more overwinding, no more damaged seals
- acoustic alert when reaching the max. torque



Item #	Description
1550	Valve Core Torque Tool   0.25 Nm
1551	Valve Core Torque Tool   0.45 Nm



## Tyre Valve Cutting Tool

- for cutting-off tire valves
- allows fast renewing of tire valves
- cutting edge width: 18 mm
- cutting edge opening: max. 30 mm
- length: 230 mm

Item #
8881



## Tyre Valve Repair Kit | 14 pcs.

- 1 thread repair cutter
- 1 pencil gauge with key chain
- 4 plastic caps
- 4 chrome plated hex caps
- 4 valve inserts

Item #
3272





## Thread Tap for Tyre Valves

- suitable for car tire valves
- features: turning out of valves and recutting of valve threads

Item #
8453



## Dead Blow Hammer | Head Ø 50 mm

- steel tube shaft
- rubber coated handle
- length: 330 mm
- weight: 850 g

Item #
1863



## Dead Blow Hammer | Head Ø 60 mm

- made of polyurethane - fibre glass
- all rubber coated
- blow-back proof due to steel balls in the head of the mallet, therefore stronger impact
- especially for loosening stuck rims when changing tires
- handle length: 380 mm
- weight 1,300 g

Item #
1868



## Dead Blow Hammer

- blow-back proof due to steel balls in the head of the mallet, therefore stronger impact
- especially for loosening stuck rims when changing tires

- BGS 1968: for cars
- BGS 1876: extra heavy duty for trucks and SUVs

Item #	Description
1968	Dead Blow Hammer   Head Ø 70 mm
1876	Dead Blow Hammer   Head Ø 105 mm



## Parts Washer | 230 V

- for cleaning of small parts
- cleaner brush is rinsed for best cleaning results
- suitable for all mildly alkaline, water soluble cleansers, e. g. universal cleaner, 5l BGS 9380
- capacity: min. 15 litre
- dimensions (W x D x H): 640 x 440 x 260 mm



Item #
8693



## Ultrasonic Parts Cleaner | 13 l

- for cleaning carburetor parts, tools, injectors, jewellery, watch bands, coins, collectibles, etc.
- removes dirt effectively
- with heater for heating cleaning fluid
- housing, container and lid made of stainless steel
- container size: 330 x 300 x 150 mm
- drain valve for draining the cleaning fluid
- length: 550 mm
- width: 330 mm
- height: 310 mm
- tank capacity: 13 l
- adjustable cleaning time: 0 - 20 min
- max. heating capacity: 400 W
- power supply frequency: 50 Hz
- power supply voltage (AC): 220 - 230 V
- temperature adjustment: 20 - 80 °C
- ultrasonic frequency: 40 kHz
- ultrasonic power: 300 W



Item #
8960



## Ultrasonic Parts Cleaner | 3 l

- for cleaning carburetor parts, tools, injectors, jewellery, watch bands, coins, collectibles, etc.
- removes dirt effectively
- with heater for heating cleaning fluid
- housing, container and lid made of stainless steel
- container size: 230 x 130 x 100 mm
- length: 270 mm
- width: 170 mm
- height: 240 mm
- tank capacity: 3 l
- adjustable cleaning time: 0 - 20 min
- max. heating capacity: 100 W
- power supply frequency: 50 Hz
- power supply voltage (AC): 220 - 230 V
- temperature adjustment: 20 - 80 °C
- ultrasonic frequency: 40 kHz
- ultrasonic power: 100 W



Item #
8990



## Laundry Basket for Small Parts

- for washing / draining of small parts
- tight net prevents loss of small parts
- made of stainless steel
- with magnetic feet, 6 kg holding force
- top diameter: 273 mm
- bottom diameter: 85 mm
- capacity: 2.3 l
- weight: 360 g



Item #
8992

## Mechanic's Creeper / Seat

- can be used as a seat or a creeper
- facilitates maintenance and service works
- creeper dimension: (L x W x H) 1030 x 450 x 150 mm
- steel frame, coated
- castors: 6 pieces
- seat surface: 520 x 450 mm
- seat height: 540 mm
- max. load capacity as a recliner 150 kg
- max. load capacity as seat 130 kg



Item #
2850



## Mechanic's Creeper / Seat

- with double ball bearing rolling wheels
- persistent synthetic leather padded cover
- converts easily from creeper to seat and back, adjustable
- lying surface: 1060 x 310 mm (with headrest)
- lying height: 120 mm
- headrest: 160 x 310 mm
- overall size: 1200 x 420 x 120 mm
- seat surface: 320 x 310 mm
- seat height: 445 mm
- max. load capacity as a recliner 150 kg
- max. load capacity as seat 130 kg



Item #	Description
2995	Mechanic's Creeper / Seat
2997	Spare Wheel for BGS 2995



## Workshop Creeper | 1000 x 420 mm

- square metal frame
- size 1000 x 420 x 100 mm
- padded cover
- 6 swivel casters with ball bearing rubber wheels for easy movement
- capacity: 130 kg



Item #
2992



## Workshop Creeper | with work lamp | 1030 x 500 mm

- material: durable PE plastic
- 6 castors Ø 75 mm
- 1030 mm length x 500 mm width
- LED work light for under car lighting included
- comfortable head rest
- max. capacity: 150 kg



Item #	Description
2996	Workshop Creeper   with work lamp   1030 x 500 mm
2996-1	Gooseneck Lamp with 4 LEDs   for BGS 2996



## Workshop Creeper | 1000 x 510 mm

- heavy and robust execution
- ergonomically shaped head rest
- 6 rolling wheels
- capacity: 110 kg



Item #	Description
2994	Workshop Creeper   1000 x 510 mm
2989	Replacement Wheel for BGS 2994, 2996

## Workshop Seat with 5 Castors | Ø 360 mm

- padded seat
- large storage compartment in the base
- height-adjustable through hydropneumatics
- height: 450 - 580 mm
- seat: Ø 360 mm
- shelf plate: Ø 440 mm
- capacity: 135 kg
- castor size: 75 mm



Item #
8388



## Mechanics Creeper with Drawer

- stable steel pipe frame (25 x 25 mm)
- 4 castors Ø 50 mm
- seat surface: 365 mm width x 210 mm depth
- drawer internal dimensions (W x D x H): 275 x 185 x 55 mm
- dimensions (W x D x H): 360 x 410 x 330 mm
- max. capacity: 90 kg



Item #
2832

## Roller Seat

- tool storage tray underneath the seat
- plastic
- black
- with 4 wheels



Item #	Description
1919	Roller Seat
1916	Replacement Wheel for BGS 1919



## Wheeled Sliding Kneeboard | max. 100 kg

- for fatigue-free working
- 5 castors for high stability
- padded knee troughs
- with storage and carry handle
- max. capacity: 100 kg



Item #
8807

## Mechanic's Protection Mat | 1200 x 435 x 35 mm

- allows comfortable working under the vehicle
- foldable, requires little storage space
- with headrest and carrying strap



Item #
4805

## Knee Protector | 1200 x 540 x 30 mm

- soft and stable material facilitates your job and protects your knees
- oversized, also suitable as upper body pad
- oil, acid and fuel resistant



Item #
4804

## Knee Protector | 450 x 210 x 30 mm

- with storage compartment, prevents rolling away of tools and parts
- acid-resistant EPE foam

Item #
4801



## Knee Protector | 480 x 320 x 36 mm

- oil, acid and fuel resistant
- EVA foam

Item #
4800



## Universal Fender Cover | magnetic

- protects the car body during repair jobs
- top and bottom side made from durable nylon material
- holds onto the car body through sewed-in magnets
- protection against scratches, dirt, oil, etc.

Item #
3232



## Protective Seat and Steering Wheel Cover

- protects against pollution from grease, oil, water, food scraps and other materials
- can be easily cleaned by wiping off with a damp cloth or sponge
- consists of seat, steering wheel and gear knob cover

Item #	Description
66529	Protective seat and steering wheel cover   universal   imitation leather
66531	Protective seat and steering wheel cover   universal   polyester



## Automotive Clip Assortment for VW vehicles | 255 pcs.

- 30 door moulding clips, to be used as VW / Audi OE No. 6U085733
- 20 trunk lining retainers to be used as OE No. VW N9020160H, Ford 6998849, BMW 514719044317, Opel 2207713 and suitable for many other vehicles
- 30 drive rivets, to be used as OE No. VW / Audi N0385501, Peugeot 781424 and suitable for many other vehicles
- 5 round retaining clips, to be used as VW / Audi OE No. 1H0868243B
- 30 screw grommets 15 x 12 mm, to be used as VW / Audi OE No. N90833801 and suitable for many other vehicles
- 20 retaining clips, to be used as OE No. VW 3A0853575, Audi 3A0853575A
- 15 moulding clips 34.9 x 21.9 mm, to be used as OE No. VW 4A0853825, Audi 4A0853825A
- 10 retaining clips 22 x 25 x 10 mm, to be used as VW / Audi OE No. 3B0853576
- 25 retaining clips, to be used as VW OE No. 1H0819055B01C and suitable for many other vehicles
- 15 retaining clips, to be used as VW OE No. 443853909A
- 30 push-type plastic retainers, to be used as VW OE No. 171885767 and suitable for many other vehicles
- 25 plastic screw nuts, to be used as VW / Audi OE No. 191941142



Item #
8129



## Automotive Clip Assortment for Ford, Mazda, GM, Chrysler, Nissan | 415 pcs.

- 25 wiring harness clips, to be used as Ford OE 388577S
- 20 push-type clips, to be used as GM OE 10139822, Ford OE 1673046, Chrysler OE 6508197AA
- 30 connecting clips, to be used as Mazda OE B45556741, Ford OE F1CZ16674A
- 15 moulding clips, to be used as Ford OE N8011925S
- 40 door and window rubber seal clips, to be used as Ford OE N806289S
- 30 nut inserts, to be used as Ford OE N379830S
- 10 moulding clips, to be used as Ford OE N387496S
- 35 wiring harness clips, to be used as Ford OE N803170S
- 10 push-type clips, to be used as Ford OE W704958S300
- 20 push-type clips, to be used as Mazda OE NAU156145, Ford OE W706713S300
- 35 wiring harness clips, to be used as Ford OE N388246S
- 15 connecting clips, to be used as Ford OE N387944S
- 20 push-type clips, to be used as Ford OE N805231S
- 15 connecting clips, to be used as Ford OE W705532S300
- 15 push-type connection clips, to be used as Ford OE W710250S300
- 35 rear light clips, to be used as GM & Ford OE 16500308, Chrysler OE 6500787
- 30 hood insulated clips, to be used as Mazda OE 6508197AA, Ford OE F22Z16774A
- 15 push-type clips, to be used as OE Ford OE 1007932, Nissan OE 6384401A00



Item #
9041



## Automotive Clip Assortment for BMW, VW | 290 pcs.

- 35 bumper panel clips, to be used as BMW OE 51118174185
- 40 panel clips, to be used as BMW OE 703867299, VW OE 823867299
- 80 nut inserts, to be used as BMW OE 51311802258
- 80 connecting clips, to be used as BMW OE 51131804205
- 35 push-type clips, to be used as BMW OE 51481938725
- 20 push-type clips, to be used as BMW OE 51131960054

Item #
9042



## Automotive Clip Assortment for Mercedes-Benz | 270 pcs.

- 30 plastic nut inserts, to be used as Mercedes-Benz OE A108980027, Renault OE 7703074022
- 15 push-type clips, to be used as Mercedes-Benz OE A1269900392
- 30 connecting clips, to be used as Mercedes-Benz OE A0019882981
- 25 push-type clips, to be used as Mercedes-Benz OE A1249900492
- 5 connecting clips, to be used as Mercedes-Benz OE A0019888081
- 10 connecting clips, to be used as Mercedes-Benz OE A1249880492
- 15 push-type clips, to be used as Mercedes-Benz OE A9904692
- 40 push-type clips, to be used as Mercedes-Benz OE A0009908492
- 30 connecting clips, to be used as Mercedes-Benz OE A0019880325
- 15 wiring harness clips, to be used as Mercedes-Benz OE A1406980260
- 20 connecting clips, to be used as Mercedes-Benz OE A0019885081
- 35 connecting clips, to be used as Mercedes-Benz OE A0019884481

Item #
9043





## Automotive Clip Assortment for Audi, VW | 160 pcs.

- 10 push-type clips, to be used as Audi OE 1H0867199A, VW OE 51481915964
- 10 trim clips, to be used as VW OE 1H086243, Audi OE 1H0868243B
- 10 rubber seal clips, to be used as Audi / VW / Skoda OE 1H0853585A
- 5 rubber seal clips, to be used as Audi / VW OE 3A0853575
- 20 rubber seal clips, to be used as Audi / VW OE 3B0853575
- 20 fastening clips, to be used as VW OE 3A0853575, Audi / VW OE 3A0853575A
- 10 fastening clips, to be used as Audi / VW OE 4A0853825C
- 15 hood rod clips, to be used as Audi / VW OE 1H0823397
- 15 push-type clips, to be used as Audi / VW OE 1H0819055C01C
- 10 door panel clips, to be used as VW OE 3B0838243, Audi / VW OE 3B0868243
- 20 protection strip clips, to be used as Audi / VW OE 357853575, Peugeot OE 6991W4
- 15 plastic clips, to be used as Audi / VW OE 4A0853825, Audi 4A0853825A



Item #
9044



## Automotive Clip Assortment for VW, Audi, Volvo, Chrysler, Ford, Mercedes-Benz | 350 pcs.

- 40 push-type clips 10 x 7 x 5 mm, black, to be used as Mercedes-Benz OE A00099903492, Peugeot OE 790307216
- 30 push-type clips 13 x 14 x 8 mm, black, to be used as Mercedes-Benz OE A0009903792
- 40 push-type clips 12.3 x 17.5 x 8.4 mm, grey, to be used as VW / Audi OE N0385501, Peugeot 7814.24
- 20 push-type clips 16 x 12 x 8 mm, black, to be used as VW OE N16186729901C
- 30 push-type clips 9.9 x 10.7 x 6.1 mm, black, to be used as Mercedes-Benz OE A0009908492
- 20 push-type clips 18 x 16 x 7.4 mm, grey, to be used as Chrysler OE 25524005
- 25 push-type clips 15.8 x 11.1 x 6.3 mm, black, to be used as Ford OE 383142S
- 20 push-type clips 16 x 14 x 6 mm, black, to be used as Volvo OE 1268176
- 30 push-type clips 11.3 x 7 x 5 mm, white, to be used as GM OE 14005089
- 20 push-type clips 16 x 14 x 9 mm, black, to be used as Volvo OE 9133417
- 40 push-type clips 14.8 x 9.7 x 6.6 mm, black, to be used as VAG 8N0863788
- 35 push-type clips 10 x 12 x 5 mm, black, suitable for general use



Item #
9045





## Automotive Clip Assortment for Toyota, Nissan, Mitsubishi | 350 pcs.

- 25 screw grommets, comparable to Fiat OE 83468473
- 40 screw nuts, comparable to Ford OE N379830S
- 40 4-pt. nut clips, comparable to Nissan OE 0128100501, Mazda OE 999100402
- 25 connecting clips, comparable to Mercedes-Benz OE A0019882981
- 30 4-pt. nut clips, comparable to Mitsubishi OE 9018905013
- 25 screw grommets, comparable to Mitsubishi OE MU480034
- 25 screw clips, comparable to Renault OE 7703081184
- 20 round nut clips, comparable to Toyota OE 9018906013
- 30 round nut clips, comparable to Nissan OE 128100231, Toyota OE 9018906001
- 30 4-pt. nut clips, comparable to Toyota OE 75521611000, Nissan OE 96706P0105
- 40 headlight nuts, comparable to GM OE 1370853, VW OE 441035555
- 20 screw grommets, comparable to Toyota OE 9018906157



Item #
9046



## Automotive Clip Assortment for Toyota, Lexus | 360 pcs.

- 10 hood insulated clips, to be used as Toyota OE 9046709006
- 25 round nut clips, to be used as Nissan OE 128100231, Toyota OE 9018906001
- 40 4-pt. nut clips, to be used as Toyota OE 75521611000, Nissan OE 96706P0105
- 10 U-nut clips, to be used as Toyota OE 9017905060
- 25 door sill clips, to be used as Toyota OE 9046711063
- 25 moulding clips, to be used as Toyota OE 7539533030
- 20 push-type clips, to be used as Toyota OE 9046707138
- 35 push-type clips, to be used as Toyota OE 9046707117
- 30 connecting clips, to be used as Toyota OE 904679138
- 15 bumper clips, to be used as Toyota OE 9046709101
- 15 bumper clips, to be used as Toyota OE 9046709093
- 10 side moulding rubber connectors, to be used as Toyota OE 7504933010
- 20 door panel clips, to be used as Toyota OE 7503933060
- 20 moulding clips, to be used as Toyota OE 677711250
- 15 push-type clips, to be used as Toyota OE 9046709143
- 20 hood insulated clips, to be used as Toyota OE 9046708124
- 10 bumper push-type clips, to be used as Toyota OE 9046709096
- 15 hood insulated clips, to be used as Toyota OE 9046709050



Item #
9047



## Automotive Clip Assortment for Renault | 300 pcs.

- 65 connecting clips, to be used as Fiat OE 14188380, Renault OE 7703077059
- 50 door moulding clips, to be used as Renault OE 7703077421
- 60 push-type clips, to be used as Renault OE 7703081184
- 50 fastening clips, universal
- 15 fastening clips
- 60 plastic nuts, to be used as Renault OE 7703074022, Mercedes-Benz OE A108980027



Item #
9048



## Automotive Clip Assortment for Opel | 300 pcs.

- 40 moulding clips, to be used as Ford OE 1591426, Opel OE 174864
- 20 connecting clips, to be used as Opel OE 90218614
- 50 connecting clips (blue), to be used as Opel OE 2345959, Renault OE 7701053516, Audi OE 7L5853994
- 50 connecting clips (black), to be used as Opel OE 2240582
- 40 plastic nuts, to be used as Opel OE 180942
- 100 push-type clips, to be used as Peugeot OE 7814.24, VW OE N0385501



Item #
9049



## Automotive Clip Assortment for Peugeot, Citroen | 345 pcs.

- 30 plastic nuts, to be used as Renault OE 7703074022, Mercedes-Benz OE A108980027
- 50 push-type clips, to be used as Volvo OE 947098, Mercedes-Benz OE A0009903492, Peugeot OE 790307216
- 20 trim clips, to be used as Peugeot & Citroen OE 856535
- 20 side molding clips, to be used as Audi OE 357853575, Peugeot OE 6991W4
- 15 plug in clips, to be used as Peugeot & Citroen OE 698317
- 20 connecting clips, suitable for general use on Citroen
- 25 connecting clips, to be used as Peugeot & Citroen OE 694143
- 35 connecting clips, to be used as Peugeot OE 743707
- 25 molding clips, to be used as Peugeot OE 699502
- 30 molding clips, to be used as Peugeot OE 6995X3
- 40 molding clips, to be used as Peugeot OE 69945
- 35 plug in clips, to be used as Fiat OE 14188380, Renault OE 7703077059



Item #
9051



## Automotive Clip Assortment for Fiat | 308 pcs.

- 30 interior moulding clips, to be used as Fiat OE 14591784, Volvo OE 4292906
- 20 push-type clips, to be used as Fiat OE 1459487
- 25 push-type clips, to be used as Fiat OE 1300433650
- 8 connecting clips, to be used as Fiat OE 71717421
- 25 moulding clips, to be used as Fiat OE 82456515
- 25 moulding clips, to be used as Fiat OE 5757139
- 20 interior moulding clips, to be used as Fiat OE 1459387
- 25 moulding clips for Fiat, to be used as Lancia OE 14188282, Fiat OE 46306526, Alfa OE 60507749
- 25 moulding clips, to be used as Fiat OE 14591687
- 25 moulding clips, to be used as Fiat OE 1452387
- 30 screw grommets, to be used as Fiat OE 83468473
- 50 connecting clips, to be used as Fiat OE 7677865



Item #
9052



## Automotive Clip Assortment for Volvo | 350 pcs.

- 25 push-type clips, to be used as Nissan OE 8099905N07, Toyota OE 9046707043, Volvo
- 30 interior moulding clips, to be used as Fiat OE 14591784, Volvo OE 4292906
- 20 bumper cover clips, to be used as Volvo OE 1268176
- 40 moulding clips, to be used as BMW OE 51131804205, Volvo
- 40 push-type clips, to be used as Volvo OE 947098, Mercedes-Benz OE A0009903492, Peugeot OE 790307216
- 40 body side moulding clips, to be used as Volvo OE 591740, VW OE 171583585
- 25 push-type clips, to be used as Nissan OE 6384801G00, Volvo
- 20 rocker panel clips, to be used as Volvo OE 9133417
- 40 hood insulated / radiator clips, to be used as Volvo OE 9133073
- 30 black fir tree clips, to be used as Volvo OE 3272075327462B
- 20 grey fir tree clips, to be used as Volvo OE 327462A
- 20 bonnet rod clips, to be used as Volvo OE 3923712



Item #
9053



## Plastic Rivet Assortment | for GM, BMW, Chrysler, VW, Ford | 235 pcs.

- 15 plastic rivets, to be used as BMW OE 51717002953
- 25 plastic rivets, to be used as Chrysler OE 6500898
- 20 plastic rivets, to be used as Chrysler OE 25524005
- 20 radiator grille plastic rivets, to be used as Ford OE N804583S
- 15 plastic rivets, to be used as GM OE 14063981, Chrysler OE 6500911, Ford OE N8030433
- 15 plastic rivets, to be used as Chrysler OE 6503860, Ford OE N804675S
- 35 plastic rivets, to be used as GM OE 204655395, Chrysler OE 6004212
- 15 plastic rivets, to be used as GM OE 10036503
- 15 plastic rivets, to be used as GM OE 10109689
- 15 plastic rivets, to be used as GM OE 15506827
- 15 plastic rivets, to be used as GM OE 14070914
- 30 plastic rivets, to be used as VW OE 1758535570C, Chrysler OE 6503800



Item #
9054



## Fir Tree Clip Assortment for GM, VW, Chrysler, BMW, Nissan Ford | 340 pcs.

- 30 fir tree fixings for radiator yoke, fender & bumper shield, to be used as Ford OE 388577S
- 30 fir tree fixings for fender & bumper shield
- 15 fir tree fixings for interior trim panel, to be used as Chrysler OE 6003423
- 15 fir tree fixings for door trim panel, to be used as VW OE N989022, Ford OE 385661, Chrysler OE 6003349
- 50 fir tree fixings for door weatherstrip, to be used as Chrysler OE 6502328, GM OE 20699808
- 10 fir tree fixings for bumper fascia, to be used as Ford OE N804379S
- 35 fir tree fixings for hood insulation, to be used as Ford OE F22Z16774A, Mazda OE 6508197AA
- 30 fir tree fixings for fender and bumper shield, to be used as GM OE 16674629, Ford OE N806113S
- 50 fir tree fixings for radiator grille, to be used as Nissan OE 0153301781
- 25 fir tree fixings for battery post cable shield, radiator side air baffle, to be used as BMW OE 52201964201, GM OE 10124502
- 20 fir tree fixings, to be used as VW OE N9020160H, Ford OE 6998849, BMW OE 514719044317, Opel OE 2207713
- 30 fir tree fixings for general use on many car brands, for e. g. trim panels, etc.



Item #
9055





## Plastic Push-Type Clip Assortment for Mazda, Honda, Ford, Nissan & VW | 240 pcs.

- 30 push-type clips, comparable to Mazda OE 2042301, Chrysler OE MB345544
- 20 push-type clips, comparable to Honda OE 90675SB003, Nissan OE 75521611000
- 20 push-type clips, comparable to OE Ford OE 1007932, Nissan OE 6384401A00
- 40 push-type clips, comparable to Nissan OE 6686001W01, GM OE 94051933
- 20 push-type clips, comparable to Ford OE 1673046, GM OE 10139822, Chrysler OE 6508197AA
- 25 push-type clips, comparable to Ford OE 1007932, Chrysler OE 6502871
- 10 push-type clips, comparable to Audi / VW OE 1H0867199A, BMW OE 51481915964
- 15 push-type clips, comparable to Nissan OE 6387801E10
- 20 push-type clips, comparable to Ford OE W706713S300, Mazda OE NAU156145
- 15 push-type clips, comparable to Mercedes-Benz OE A1269900392
- 15 push-type clips, comparable to Mercedes-Benz OE A9904692
- 10 push-type clips, comparable to Audi / VW OE 1H0819055C01C



Item #
9057



## Blind Rivets Assortment | aluminium | Ø 2.4 - 4.8 mm | 400 pcs.

- sorted
- rivet length: 6 mm
- dimensions 2.4 - 3.2 - 4 - 4.8 mm
- pin made of steel
- in plastic storage case



Item #
8058





## O-Ring Assortment | Ø 3 - 50 mm | 419 pcs.

- acid, petrol, heat and oil resistant
- made of NBR, not suitable for drinking water
- 20 O-rings Ø 3 mm, thickness 1.5 mm
- 20 O-rings Ø 4.5 mm, thickness 2 mm
- 18 O-rings Ø 5 mm, thickness 2 mm
- 23 O-rings Ø 7 mm, thickness 1.5 mm
- 23 O-rings Ø 10 mm, thickness 1.5 mm
- 23 O-rings Ø 13 mm, thickness 1.5 mm
- 14 O-rings Ø 10 mm, thickness 2.5 mm
- 13 O-rings Ø 11 mm, thickness 2.5 mm
- 14 O-rings Ø 13 mm, thickness 2.5 mm
- 13 O-rings Ø 14 mm, thickness 2.5 mm
- 14 O-rings Ø 16 mm, thickness 2.5 mm
- 14 O-rings Ø 18 mm, thickness 2.5 mm
- 13 O-rings Ø 19 mm, thickness 2.5 mm
- 14 O-rings Ø 21 mm, thickness 2.5 mm
- 13 O-rings Ø 22 mm, thickness 2.5 mm
- 10 O-rings Ø 18 mm, thickness 3.5 mm
- 10 O-rings Ø 20 mm, thickness 3.5 mm
- 10 O-rings Ø 22 mm, thickness 3.5 mm
- 10 O-rings Ø 23.5 mm, thickness 3.5 mm
- 10 O-rings Ø 25 mm, thickness 3.5 mm
- 10 O-rings Ø 26.5 mm, thickness 3.5 mm
- 10 O-rings Ø 28 mm, thickness 3.5 mm
- 10 O-rings Ø 30 mm, thickness 3.5 mm
- 10 O-rings Ø 31 mm, thickness 3.5 mm
- 10 O-rings Ø 33 mm, thickness 3.5 mm
- 10 O-rings Ø 34.5 mm, thickness 3.5 mm
- 10 O-rings Ø 36 mm, thickness 3.5 mm
- 10 O-rings Ø 38 mm, thickness 3.5 mm
- 10 O-rings Ø 41 mm, thickness 3.5 mm
- 10 O-rings Ø 44 mm, thickness 3.5 mm
- 10 O-rings Ø 47 mm, thickness 3.5 mm
- 10 O-rings Ø 50 mm, thickness 3.5 mm



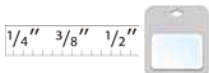
Item #	Description
8045	O-Ring Assortment   Ø 3 - 50 mm   419 pcs.
8045-LEER	Empty Case for BGS 8045

## O-Ring Assortment | Inch Sizes | 419 pcs.

- acid, petrol, heat and oil resistant
- made of NBR, not suitable for drinking water
- 20 O-rings internal-Ø 1/8"
- 20 O-rings internal-Ø 3/16"
- 18 O-rings internal-Ø 1/4"
- 23 O-rings internal-Ø 5/16"
- 23 O-rings internal-Ø 3/8"
- 23 O-rings internal-Ø 1/2"
- 14 O-rings internal-Ø 3/8"
- 13 O-rings internal-Ø 7/16"
- 14 O-rings internal-Ø 1/2"
- 13 O-rings internal-Ø 9/16"
- 14 O-rings internal-Ø 5/8"
- 14 O-rings internal-Ø 11/16"
- 13 O-rings internal-Ø 3/4"
- 14 O-rings internal-Ø 13/16"
- 13 O-rings internal-Ø 7/8"
- 10 O-rings internal-Ø 3/4"
- 10 O-rings internal-Ø 13/16"
- 10 O-rings internal-Ø 7/8"
- 10 O-rings internal-Ø 5/16"
- 10 O-rings internal-Ø 1"
- 10 O-rings internal-Ø 1-1/16"
- 10 O-rings internal-Ø 1-1/8"
- 10 O-rings internal-Ø 1-3/16"
- 10 O-rings internal-Ø 1-1/4"
- 10 O-rings internal-Ø 1-5/16"
- 10 O-rings internal-Ø 1-3/8"
- 10 O-rings internal-Ø 1-7/16"
- 10 O-rings internal-Ø 1-1/2"
- 10 O-rings internal-Ø 1-5/8"
- 10 O-rings internal-Ø 1-3/4"
- 10 O-rings internal-Ø 1-7/8"
- 10 O-rings internal-Ø 2"



Item #
8061



## O-Ring Assortment | XXL | Ø 18 - 50 mm | 285 pcs.

- acid, petrol, heat and oil resistant
- in plastic storage case
- 10 O-rings 40 x 4 mm
- 5 O-rings 44 x 4 mm
- 5 O-rings 48 x 4 mm
- 5 O-rings 50 x 4 mm
- 20 O-rings 18 x 2 mm
- 20 O-rings 20 x 2 mm
- 20 O-rings 22 x 3 mm
- 20 O-rings 25 x 3 mm
- 15 O-rings 28.2 x 3 mm
- 15 O-rings 30.2 x 3 mm
- 10 O-rings 32.2 x 3 mm
- 10 O-rings 36.2 x 3 mm
- 15 O-rings 25 x 4 mm
- 10 O-rings 30 x 4 mm
- 10 O-rings 32 x 4 mm
- 10 O-rings 34 x 4 mm
- 15 O-rings 25 x 5 mm
- 15 O-rings 30 x 5 mm
- 10 O-rings 35 x 5 mm
- 10 O-rings 40 x 5 mm
- 5 O-rings 45 x 5 mm
- 5 O-rings 50 x 5 mm
- material: acrylic rubber (nbr)



Item #
8105

## O-Ring Assortment | Ø 3 - 22 mm | 225 pcs.

- ideal for DIY and workshop use
- in plastic storage case
- 20 O-rings internal Ø 3 mm, thickness: 1 mm
- 20 O-rings internal Ø 4 mm, thickness: 1 mm
- 20 O-rings internal Ø 4.5 mm, thickness: 2 mm
- 20 O-rings internal Ø 5 mm, thickness: 2 mm
- 20 O-rings internal Ø 6 mm, thickness: 2 mm
- 20 O-rings internal Ø 6 mm, thickness: 5 mm
- 20 O-rings internal Ø 6 mm, thickness: 3 mm
- 20 O-rings internal Ø 7 mm, thickness: 2 mm
- 20 O-rings internal Ø 8 mm, thickness: 2 mm
- 5 O-rings internal Ø 9 mm, thickness: 2 mm
- 5 O-rings internal Ø 10 mm, thickness: 2 mm
- 5 O-rings internal Ø 12 mm, thickness: 3 mm
- 5 O-rings internal Ø 13 mm, thickness: 3 mm
- 5 O-rings internal Ø 14 mm, thickness: 5 mm
- 5 O-rings internal Ø 17 mm, thickness: 5 mm
- 5 O-rings internal Ø 18 mm, thickness: 4 mm
- 5 O-rings internal Ø 20 mm, thickness: 2 mm
- 5 O-rings internal Ø 22 mm, thickness: 2 mm
- material: acrylic rubber (nbr)



Item #
8044



## Seal Ring Assortment | Rubber and Fibreglass | 141 pcs.

- various gaskets manufactured from rubber and fibreglass
- for sanitary applications
- black sealing rings, rubber
- red sealing rings, reinforced paper fibre
- in plastic storage case
- 10 sealing rings 1/2" x 16 mm
- 5 sealing rings 3/8" x 8 mm
- 10 sealing rings 1/2" x 17 mm
- 10 sealing rings 3/4" 15 x 24 mm
- 10 sealing rings 3/4" 11 x 24 x 2 mm
- 5 sealing rings 1/2" 9 x 19 mm
- 5 sealing rings 1/2" x 10 mm
- 5 sealing rings 3/8" x 10 mm
- 10 sealing rings 3/4"
- 10 sealing rings 3/8" x 8 mm
- 10 sealing rings 21 x 17 mm
- 10 sealing rings 3/8"
- 10 sealing rings 1/2"
- 3 sealing rings 1-1/2" 27 x 38 mm
- 10 sealing rings 3/4" 16 x 24 mm
- 5 sealing rings 1"
- 3 sealing rings 1-1/4" 30 x 39 mm
- 10 sealing rings 1/2" 12 x 18 mm



Item #
8059



## O-Ring Assortment | Ø 3 - 22 mm | 225 pcs.

- made from HNBR, specially for use on air conditioning lines
- in plastic storage case
- O-rings internal-Ø 3 mm
- O-rings internal-Ø 4 mm
- O-rings internal-Ø 4.5 mm
- O-rings internal-Ø 5 mm
- O-rings internal-Ø 6 mm
- O-rings internal-Ø 7 mm
- O-rings internal-Ø 8 mm
- O-rings internal-Ø 9 mm
- O-rings internal-Ø 10 mm
- O-rings internal-Ø 12 mm
- O-rings internal-Ø 13 mm
- O-rings internal-Ø 14 mm
- O-rings internal-Ø 17 mm
- O-rings internal-Ø 18 mm
- O-rings internal-Ø 20 mm
- O-rings internal-Ø 22 mm



Item #
8121



## Seal Ring Assortment | Metal | with Rubber sealing Bead | 150 pcs.

- for oil drain plugs
- 10 metal sealing rings M6
- 10 metal sealing rings M8
- 10 metal sealing rings M10
- 20 metal sealing rings M12
- 20 metal sealing rings M14
- 20 metal sealing rings M18
- 20 metal sealing rings M16
- 20 metal sealing rings M20
- 10 metal sealing rings M22
- 10 metal sealing rings M24



Item #
9306

## Assembly Tool Set | 220 mm | 2 pcs.

- straight and bent (45° and 90°) tips
- length: 220 mm

Item #
8015



## O-Ring Hook Set | 5 pcs.

- incl. magnetic pick up tool

Item #
8035



## Seal Removing Hook Set | 3 pcs.

- S-shaped hooks e. g. for loosening rotary shaft seals
- 90° hooks e. g. for loosening O-rings
- small hook tool

Item #
8405





## Spring Washer Assortment | 1200 pcs.

- metric
- in plastic storage case
- 300 spring washers Ø 3 mm
- 300 spring washers Ø 4 mm
- 300 spring washers Ø 5 mm
- 150 spring washers Ø 6 mm
- 100 spring washers Ø 8 mm
- 50 spring washers Ø 10 mm
- surface finish: chrome plated

Item #
8053



## Seal Ring Assortment | aluminium | 300 pcs.

- especially suitable for oil drain plugs
- suitable for all popular vehicles
- in plastic storage case
- 10 sealing rings 5 x 9 x 1.0 mm
- 10 sealing rings 8 x 14 x 1.5 mm
- 10 sealing rings 12 x 16 x 1.0 mm
- 10 sealing rings 14 x 20 x 1.5 mm
- 10 sealing rings 18 x 24 x 1.5 mm
- 10 sealing rings 22 x 30 x 1.5 mm
- 10 sealing rings 6 x 10 x 1.0 mm
- 10 sealing rings 9 x 14 x 1.0 mm
- 10 sealing rings 12 x 16 x 1.5 mm
- 10 sealing rings 14 x 20 x 2.0 mm
- 10 sealing rings 20 x 24.5 x 1.5 mm
- 10 sealing rings 22 x 29 x 1.5 mm
- 10 sealing rings 6 x 12 x 1.0 mm
- 10 sealing rings 10 x 14 x 1.0 mm
- 10 sealing rings 12 x 18 x 1.5 mm
- 10 sealing rings 16 x 20 x 1.5 mm
- 10 sealing rings 20 x 24.5 x 0.8 mm
- 10 sealing rings 24 x 32 x 2.0 mm
- 10 sealing rings 8 x 12 x 1.0 mm
- 10 sealing rings 10 x 14 x 1.5 mm
- 10 sealing rings 13 x 18 x 1.0 mm
- 10 sealing rings 16 x 22 x 1.5 mm
- 10 sealing rings 19 x 26 x 2.0 mm
- 10 sealing rings 26 x 34 x 2.0 mm
- 10 sealing rings 8 x 14 x 1.0 mm
- 10 sealing rings 10 x 16 x 1.0 mm
- 10 sealing rings 14 x 18 x 1.5 mm
- 10 sealing rings 18 x 22 x 1.5 mm
- 10 sealing rings 22 x 27 x 1.0 mm
- 10 sealing rings 28 x 36 x 2.0 mm

Item #
8143



## Washer Assortment | 720 pcs.

- different sizes and shapes
- spring, star and lock shape
- in plastic storage case



Item #
8113



## Injector Copper Ring Assortment | 551 pcs.

- 30 sealing rings Ø 15.0 x 8.0 x 1.5 mm, universal use
- 12 sealing rings Ø 15.0 x 7.0 x 1.5 mm, for Mercedes-Benz
- 30 sealing rings Ø 13.0 x 7.5 x 2.5 mm, for Renault
- 30 sealing rings Ø 15.0 x 7.5 x 1.5 mm, for Iveco Ford BMW MAN
- 30 sealing rings Ø 15.0 x 7.5 x 2.0 mm, for Iveco Ford BMW MAN
- 30 sealing rings Ø 15.45 x 8.0 x 2.0 mm, universal use
- 12 sealing rings Ø 13.5 x 10 x 2.0 mm, for Mazda
- 30 sealing rings Ø 15.5 x 7.5 x 2.5 mm, for Ford
- 12 sealing rings Ø 15.5 x 7.5 x 1.5 mm, for Land Rover
- 30 sealing rings Ø 15.0 x 7.5 x 3.0 mm, for Renault
- 12 sealing rings Ø 13.0 x 7.0 x 1.5 mm, for Deutz
- 30 sealing rings Ø 13.5 x 7.5 x 1.5 mm, for Ford
- 12 sealing rings Ø 15.0 x 7.5 x 1.5 mm, for Fiat
- 12 sealing rings Ø 15.5 x 7.5 x 1 mm, for MAN Rover
- 30 sealing rings Ø 16.5 x 7.5 x 2 mm, for Mercedes-Benz
- 12 sealing rings Ø 13.7 x 7.3 x 3 mm, for Kia
- 12 sealing rings Ø 13.7 x 7.3 x 2 mm, for Kia
- 50 sealing rings Ø 10 x 6.0 x 1.0 mm, for steel sealing rings
- 30 sealing rings Ø 15.8 x 7.5 x 3.0 mm, for brass sealing rings
- 20 T-shape plastic nozzles



Item #
8107

## Seal Ring Assortment | Copper | 300 pcs.

- in plastic storage case
- 10 copper sealing rings Ø 5 x 9 mm, thickness: 1.0 mm
- 10 copper sealing rings Ø 6 x 10 mm, thickness: 1.0 mm
- 10 copper sealing rings Ø 6 x 12 mm, thickness: 1.0 mm
- 10 copper sealing rings Ø 8 x 12 mm, thickness: 1.0 mm
- 10 copper sealing rings Ø 8 x 14 mm, thickness: 1.0 mm
- 10 copper sealing rings Ø 8 x 14 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 9 x 14 mm, thickness: 1.0 mm
- 10 copper sealing rings Ø 10 x 14 mm, thickness: 1.0 mm
- 10 copper sealing rings Ø 10 x 14 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 10 x 16 mm, thickness: 1.0 mm
- 10 copper sealing rings Ø 12 x 16 mm, thickness: 1.0 mm
- 10 copper sealing rings Ø 12 x 16 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 12 x 18 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 13 x 18 mm, thickness: 1.0 mm
- 10 copper sealing rings Ø 14 x 18 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 14 x 20 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 14 x 20 mm, thickness: 2.0 mm
- 10 copper sealing rings Ø 16 x 20 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 16 x 22 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 18 x 22 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 18 x 24 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 20 x 24.5 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 20 x 24.5 mm, thickness: 0.8 mm
- 10 copper sealing rings Ø 19 x 26 mm, thickness: 2.0 mm
- 10 copper sealing rings Ø 22 x 27 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 22 x 29 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 24 x 29 mm, thickness: 1.5 mm
- 10 copper sealing rings Ø 24 x 32 mm, thickness: 2.0 mm
- 10 copper sealing rings Ø 26 x 34 mm, thickness: 2.0 mm
- 10 copper sealing rings Ø 28 x 36 mm, thickness: 2.0 mm
- material: copper



Item #
8142

## Seal Ring Assortment | Copper | 150 pcs.

- for oil drain plugs
- in plastic storage case
- 10 O-rings each:
  - internal Ø 5 mm x external Ø 10 mm, thickness: 1 mm
  - internal Ø 6 mm x external Ø 10 mm, thickness: 1 mm
  - internal Ø 7 mm x external Ø 10 mm, thickness: 1 mm
  - internal Ø 8 mm x external Ø 12 mm, thickness: 1 mm
  - internal Ø 10 mm x external Ø 16 mm, thickness: 1 mm
  - internal Ø 10.5 mm x external Ø 17 mm, thickness: 1.5 mm
  - internal Ø 11 mm x external Ø 17 mm, thickness: 1.5 mm
  - internal Ø 12 mm x external Ø 20 mm, thickness: 1.5 mm
  - internal Ø 12.5 mm x external Ø 20 mm, thickness: 1.5 mm
  - internal Ø 14 mm x external Ø 18 mm, thickness: 1 mm
  - internal Ø 14 mm x external Ø 20 mm, thickness: 1.5 mm
  - internal Ø 15 mm x external Ø 20 mm, thickness: 2 mm
  - internal Ø 16 mm x external Ø 22 mm, thickness: 2 mm
  - internal Ø 16.5 mm x external Ø 24 mm, thickness: 2 mm
  - internal Ø 17.5 mm x external Ø 24 mm, thickness: 2 mm



Item #
8052



## Injector Copper Ring Assortment | 150 pcs.

- for sealing of e.g. injectors on Common-Rail Diesel injection systems (CDI)
- 10 injectors copper ring assortments, external Ø 13.8 mm x internal Ø 7.3 mm, thickness: 1.4 mm
- 10 injectors copper ring assortments, external Ø 14.6 mm x internal Ø 7.5 mm, thickness: 1.3 mm
- 10 injectors copper ring assortments, external Ø 14.6 mm x internal Ø 7.5 mm, thickness: 3.0 mm
- 10 injectors copper ring assortments, external Ø 15.0 mm x internal Ø 7.0 mm, thickness: 3.0 mm
- 10 injectors copper ring assortments, external Ø 15.0 mm x internal Ø 7.5 mm, thickness: 1.0 mm
- 10 injectors copper ring assortments, external Ø 15.0 mm x internal Ø 7.5 mm, thickness: 1.5 mm
- 10 injectors copper ring assortments, external Ø 15.0 mm x internal Ø 7.5 mm, thickness: 2.0 mm
- 10 injectors copper ring assortments, external Ø 15.0 mm x internal Ø 7.5 mm, thickness: 2.5 mm
- 10 injectors copper ring assortments, external Ø 15.0 mm x internal Ø 7.5 mm, thickness: 3.0 mm
- 10 injectors copper ring assortments, external Ø 15.5 mm x internal Ø 7.5 mm, thickness: 2.0 mm
- 10 injectors copper ring assortments, external Ø 16.0 mm x internal Ø 7.5 mm, thickness: 1.5 mm
- 10 injectors copper ring assortments, external Ø 16.0 mm x internal Ø 7.5 mm, thickness: 1.7 mm
- 10 injectors copper ring assortments, external Ø 16.0 mm x internal Ø 7.5 mm, thickness: 2.0 mm
- 10 injectors copper ring assortments, external Ø 16.4 mm x internal Ø 7.5 mm, thickness: 2.0 mm
- 10 injectors copper ring assortments, external Ø 20.0 mm x internal Ø 9.4 mm, thickness: 0.9 mm



Item #
8120



## O-Ring Assortment | Copper | Ø 6 - 20 mm | 95 pcs.

- hollow rings for better formability
- 10 O-rings Ø 8 mm
- 15 O-rings Ø 10 mm
- 15 O-rings Ø 12 mm
- 20 O-rings Ø 14 mm
- 20 O-rings Ø 16 mm
- 10 O-rings Ø 18 mm
- 5 O-rings Ø 20 mm



Item #
9313



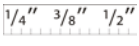



## Seal Ring Assortment | Copper | Inch Sizes | for Oil Drain Plugs | 75 pcs.

- suitable for oil drain plugs and hollow bolts
- in plastic storage case
- 5 cooper sealing rings  $\varnothing 3/16"$  x  $25/64"$ , thickness:  $1/32"$
- 5 cooper sealing rings  $\varnothing 15/64"$  x  $25/64"$ , thickness:  $1/32"$
- 5 cooper sealing rings  $\varnothing 17/64"$  x  $25/64"$ , thickness:  $1/32"$
- 5 cooper sealing rings  $\varnothing 5/16"$  x  $15/32"$ , thickness:  $1/32"$
- 5 cooper sealing rings  $\varnothing 25/64"$  x  $5/8"$ , thickness:  $1/32"$
- 5 cooper sealing rings  $\varnothing 13/32"$  x  $21/32"$ , thickness:  $3/64"$
- 5 cooper sealing rings  $\varnothing 27/64"$  x  $21/32"$ , thickness:  $3/64"$
- 5 cooper sealing rings  $\varnothing 15/32"$  x  $25/32"$ , thickness:  $3/64"$
- 5 cooper sealing rings  $\varnothing 31/64"$  x  $25/32"$ , thickness:  $3/64"$
- 5 cooper sealing rings  $\varnothing 35/64"$  x  $45/64"$ , thickness:  $1/32"$
- 5 cooper sealing rings  $\varnothing 35/64"$  x  $25/32"$ , thickness:  $3/64"$
- 5 cooper sealing rings  $\varnothing 37/64"$  x  $25/32"$ , thickness:  $5/64"$
- 5 cooper sealing rings  $\varnothing 5/8"$  x  $55/64"$ , thickness:  $5/64"$
- 5 cooper sealing rings  $\varnothing 41/64"$  x  $15/16"$ , thickness:  $5/64"$
- 5 cooper sealing rings  $\varnothing 11/16"$  x  $15/16"$ , thickness:  $5/64"$



Item #
8144





## Seal Ring Assortment | Copper | Metric | for Oil Drain Plugs | 75 pcs.

- in a reusable universal box
- copper sealing ring  $\varnothing 5.0$  x 10 mm, thickness: 1.0 mm
- copper sealing ring  $\varnothing 6.0$  x 10 mm, thickness: 1.0 mm
- copper sealing ring  $\varnothing 7.0$  x 10 mm, thickness: 1.0 mm
- copper sealing ring  $\varnothing 8.0$  x 12 mm, thickness: 1.0 mm
- copper sealing ring  $\varnothing 10.5$  x 17 mm, thickness: 1.5 mm
- copper sealing ring  $\varnothing 11.0$  x 17 mm, thickness: 1.5 mm
- copper sealing ring  $\varnothing 12.5$  x 20 mm, thickness: 1.5 mm
- copper sealing ring  $\varnothing 14.0$  x 18 mm, thickness: 1.0 mm
- copper sealing ring  $\varnothing 14.0$  x 20 mm, thickness: 1.5 mm
- copper sealing ring  $\varnothing 15.0$  x 20 mm, thickness: 2.0 mm
- copper sealing ring  $\varnothing 16.0$  x 22 mm, thickness: 2.0 mm
- copper sealing ring  $\varnothing 16.5$  x 24 mm, thickness: 2.0 mm
- copper sealing ring  $\varnothing 17.5$  x 24 mm, thickness: 2.0 mm



Item #
8132





## Rubber Grommet Assortment | Metric | 180 pcs.

- is used for cable protection when laying through holes in sheet metal or plastic parts
- in plastic storage case
- 5 rubber grommets bore Ø 22 mm, cable Ø 15 mm, outer Ø 26 mm
- 5 rubber grommets bore Ø 15.5 mm, cable Ø 12 mm, outer Ø 19 mm
- 5 rubber grommets bore Ø 28 mm, cable Ø 17 mm, outer Ø 32 mm
- 20 rubber grommets bore Ø 12 mm, cable Ø 11 mm, outer Ø 15 mm
- 25 rubber grommets bore Ø 11 mm, cable Ø 9 mm, outer Ø 15 mm
- 40 rubber grommets bore Ø 10 mm, cable Ø 6 mm, outer Ø 13 mm
- 40 rubber grommets bore Ø 7.5 mm, cable Ø 5 mm, outer Ø 10 mm
- 40 rubber grommets bore Ø 6 mm, cable Ø 3 mm, outer Ø 8 mm



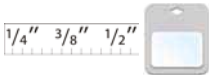
Item #
8125



## Rubber Grommet Assortment | Inch Sizes | 180 pcs.

- 40 rubber grommet 5/16"
- 40 rubber grommet 1/4"
- 40 rubber grommet 3/8"
- 20 rubber grommet 1/2"
- 25 rubber grommet 7/16"
- 5 rubber grommet 5/8"
- 5 rubber grommet 7/8"
- 5 rubber grommet 1"
- in plastic storage case

Item #
8112



## Splint Pin Assortment | Ø 1.6 - 4.0 mm | 555 pcs.

- straight type
- assorted
- in plastic storage case
- splints 1.6 x 25mm - 2.4 x 25mm - 2.4 x 33 mm - 3.2 x 32 mm - 3.2 x 50 mm - 4.0 x 64 mm

Item #
8048



## Snap Ring Assortment | Ø 2.4 - 4.0 mm | 150 pcs.

- in plastic storage case
- 42 snap rings Ø 2.4 x 31 mm
- 30 snap rings Ø 2.0 x 33 mm
- 25 snap rings Ø 2.0 x 40 mm
- 25 snap rings Ø 2.8 x 42 mm
- 20 snap rings Ø 3.5 x 45 mm
- 8 snap rings Ø 4.0 x 75 mm
- surface finish: chrome plated

Item #
8043



## Fastening Bolt Set | 60 pcs.

- 4 fastening bolts, hole Ø 2.5 mm, 2.5 x 25 mm
- 4 fastening bolts, hole Ø 2.5 mm, 6 x 25 mm
- 3 fastening bolts, hole Ø 2.5 mm, 6 x 30 mm
- 4 fastening bolts, hole Ø 2.5 mm, 6 x 40 mm
- 3 fastening bolts, hole Ø 2.5 mm, 6 x 45 mm
- 3 fastening bolts, hole Ø 2.5 mm, 6 x 50 mm
- 3 fastening bolts, hole Ø 2.5 mm, 6 x 60 mm
- 3 fastening bolts, hole Ø 2.5 mm, 6 x 65 mm
- 3 fastening bolts, hole Ø 3.0 mm, 8 x 25 mm
- 3 fastening bolts, hole Ø 3.0 mm, 8 x 30 mm
- 4 fastening bolts, hole Ø 3.0 mm, 8 x 40 mm
- 3 fastening bolts, hole Ø 3.0 mm, 8 x 45 mm
- 2 fastening bolts, hole Ø 3.0 mm, 8 x 50 mm
- 2 fastening bolts, hole Ø 3.0 mm, 8 x 60 mm
- 1 fastening bolt, hole Ø 3.0 mm, 8 x 65 mm
- 2 fastening bolts, hole Ø 3.0 mm, 8 x 70 mm
- 4 fastening bolts, hole Ø 4.0 mm, 10 x 25 mm
- 3 fastening bolts, hole Ø 4.0 mm, 10 x 40 mm
- 2 fastening bolts, hole Ø 4.0 mm, 10 x 50 mm
- 2 fastening bolts, hole Ø 4.0 mm, 12 x 40 mm
- 2 fastening bolts, hole Ø 4.0 mm, 12 x 50 mm

Item #
8137



## Linchpin Assortment | 50 pcs.

- in plastic storage case
- galvanized, zinc coated
- 16 lynch pins 4.5 mm
- 18 lynch pins 6.0 mm
- 6 lynch pins 8.0 mm
- 10 lynch pins 11.0 mm
- surface finish: galvanised, electroplated

Item #
8087



## Roll Pin Assortment | 450 pcs.

- metric
- in plastic storage case
- all standard sizes assorted
- 30 roll pins 3 x 40 mm
- 40 roll pins 4 x 30 mm
- 20 roll pins 4 x 40 mm
- 30 roll pins 5 x 40 mm
- 30 roll pins 4 x 50 mm
- 5 roll pins 5 x 50 mm
- 5 roll pins 6 x 50 mm
- 5 roll pins 5 x 60 mm
- 4 roll pins 6 x 60 mm
- 4 roll pins 8 x 60 mm
- 4 roll pins 7 x 70 mm
- 3 roll pins 8 x 80 mm
- 4 roll pins 8 x 50 mm
- 2 roll pins 10 x 80 mm
- 6 roll pins 10 x 400 mm
- 8 roll pins 8 x 40 mm
- 20 roll pins 6 x 40 mm
- 80 roll pins 3 x 30 mm
- 150 roll pins 2 x 20 mm



Item #
8054



## Feather Key Assortment | 60 pcs.

- for form-fitting connection of hubs on shafts
- 4 feather keys 3 x 3 x 20 mm
- 4 feather keys 3 x 3 x 25 mm
- 5 feather keys 5 x 5 x 20 mm
- 5 feather keys 5 x 5 x 25 mm
- 5 feather keys 5 x 5 x 30 mm
- 5 feather keys 6 x 6 x 20 mm
- 5 feather keys 6 x 6 x 30 mm
- 5 feather keys 6 x 6 x 40 mm
- 5 feather keys 8 x 7 x 30 mm
- 5 feather keys 8 x 7 x 40 mm
- 5 feather keys 10 x 8 x 30 mm
- 5 feather keys 10 x 8 x 40 mm
- 5 feather keys 12 x 8 x 40 mm



Item #
8141



## Spring Assortment | Compression and Extension Spring | 200 pcs.

- extension and compression springs
- in plastic storage cas
- compression springs 5.5 x 17.5 mm
- compression springs 5.5 x 38.0 mm
- compression springs 6.5 x 10.0 mm
- compression springs 7.0 x 12.5 mm
- compression springs 7.0 x 19.0 mm
- compression springs 9.0 x 35 mm
- compression springs 9.5 x 16 mm
- compression springs 9.5 x 19 mm
- extension springs 4.0 x 79.5 mm
- extension springs 4.5 x 44.5 mm
- extension springs 5.0 x 20.5 mm
- extension springs 5.5 x 25.5 mm
- extension springs 6.5 x 22.0 mm
- extension springs 7.0 x 98.0 mm
- extension springs 7.0 x 51.0 mm
- extension springs 8.0 x 28.5 mm
- extension springs 8.0 x 31.5 mm
- extension springs 8.0 x 44.5 mm
- extension springs 8.5 x 36.5 mm
- extension springs 8.5 x 47 mm



Item #
8047



## VDE Insulating Tape Assortment | 6 pcs.

- length 5 m x width 19 mm
- colours: 2 black, 2 red, 1 yellow, 1 white
- flexible and highly adhesive
- VDE approved

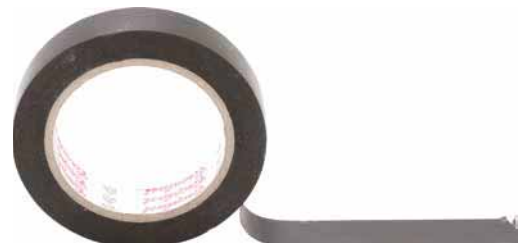


Item #
80836



## VDE Insulating Tape Roll | 15 m

- black
- 0.15 mm x 15 mm x 15 m
- core diameter: 50 mm
- VDE approved



Item #
3025



## PTFE Seal Tape | 10 m | 2 pcs.

- for the sealing of compressed air and water pipe connections
- suitable for sanitary and pneumatic fittings



Item #
8582



## Cable Tie Set | white

- material: nylon
- colour: weiß



Item #	Description
1788	Cable Tie Set   white   4.8 x 250 mm   50 pcs.
80876	Cable Tie Set   white   4.8 x 300 mm   50 pcs.
80878	Cable Tie Set   white   8.0 x 400 mm   30 pcs.
80881	Cable Tie Set   white   8.0 x 600 mm   20 pcs.



## Cable Tie Set | white | Various Sizes | 250 pcs.

- suitable for binding of cables, hoses ect.
- 160 cable ties 100 x 2.5 mm
- 40 cable ties 200 x 4.6 mm
- 10 cable ties 200 x 7.5 mm
- 30 cable ties 300 x 4.7 mm
- 10 cable ties 300 x 7.8 mm
- material: nylon
- colour: white

Item #
80874





## Cable Lug Assortment | 360 pcs.

- 20 crimping sleeves, red, 0.25 - 1.5 mm<sup>2</sup>
- 30 crimping sleeves, blue, 1.5 - 2.5 mm<sup>2</sup>
- 15 crimping sleeves, yellow, 4 - 6 mm<sup>2</sup>
- 25 flat plugs partly insulated, blue, 1.5 - 2.5 mm<sup>2</sup>
- 25 flat plug sleeves partly insulated, blue, 1.5 - 2.5 mm<sup>2</sup>
- 5 round connectors partly insulated, blue, 1.5 - 2.5 mm<sup>2</sup>
- 5 round connector sleeves fully insulated, blue, 1.5 - 2.5 mm<sup>2</sup>
- 30 ring cable lugs partly insulated, blue, Ø 5 mm
- 20 ring cable lugs partly insulated, blue, Ø 6 mm
- 20 ring cable lugs partly insulated, blue, Ø 10 mm
- 20 ring cable lugs partly insulated, yellow, Ø 5 mm
- 15 ring cable lugs partly insulated, yellow, Ø 6 mm
- 15 ring cable lugs partly insulated, yellow, Ø 10 mm
- 30 fork cable lugs partly insulated, blue, Ø 5 mm
- 20 ring fork cable lugs partly insulated, yellow, Ø 5 mm
- 10 flat plugs fully insulated, blue, 1.5 - 2.5 mm<sup>2</sup>
- 10 flat plugs sleeve fully insulated, blue, 1.5 - 2.5 mm<sup>2</sup>
- 20 plug sleeves fully insulated, red, 0.25 - 1.5 mm<sup>2</sup>
- 25 mini plugs partly insulated, blue, 1.5 - 2.5 mm<sup>2</sup>



Item #
14110



## Cable Lug Set | 160 pcs.

- 12 crimping sleeves, red, 0.25 - 1.5 mm<sup>2</sup>
- 18 crimping sleeves, blue, 1.5 - 2.5 mm<sup>2</sup>
- 12 crimping sleeves, yellow, 4 - 6 mm<sup>2</sup>
- 10 flat plugs partly insulated, blue, 1.5 - 2.5 mm<sup>2</sup>
- 5 flat plugs partly insulated, yellow, 4 - 6 mm<sup>2</sup>
- 10 flat plug sleeves partly insulated, blue, 1.5 - 2.5 mm<sup>2</sup>
- 5 flat plug sleeves, partly insulated, yellow, 4 - 6 mm<sup>2</sup>
- 4 crimp connectors, red, 0.25 - 1.5 mm<sup>2</sup>
- 4 crimp connectors, blue, 1.5 - 2.5 mm<sup>2</sup>
- 10 round plugs partly insulated, blue, 1.5 - 2.5 mm<sup>2</sup>
- 10 round plugs sleeve fully insulated, blue, 1.5 - 2.5 mm<sup>2</sup>
- 4 ring cable lugs, partly insulated, yellow, Ø 5 mm
- 4 ring cable lugs, partly insulated, yellow, Ø 8 mm
- 4 ring cable lugs, partly insulated, yellow, Ø 10 mm
- 10 ring cable lugs, partly insulated, blue, Ø 4 mm
- 10 ring cable lugs, partly insulated, blue, Ø 5 mm
- 10 ring cable lugs, partly insulated, blue, Ø 6 mm
- 10 fork cable lugs, partly insulated, blue, Ø 4 mm
- 8 ring cable lugs, partly insulated, red, Ø 4 mm



Item #
14105



## Cable Lug Assortment | 30 pcs.

- spare cable lug assortment for tool box BGS 15501



Item #
15501-2

## Insulated Ferrules Assortment | 685 pcs.

- in practical re-usable box
- 50 ferrules for cable diameter 0.5 mm<sup>2</sup>
- 50 ferrules for cable diameter 0.75 mm<sup>2</sup>
- 100 ferrules for cable diameter 1.0 mm<sup>2</sup>
- 250 ferrules for cable diameter 1.5 mm<sup>2</sup>
- 150 ferrules for cable diameter 2.5 mm<sup>2</sup>
- 50 ferrules for cable diameter 4.0 mm<sup>2</sup>
- 25 ferrules for cable diameter 6.0 mm<sup>2</sup>
- 10 ferrules for cable diameter 10.0 mm<sup>2</sup>

Item #
14120



## Branch Connector Set | 50 pcs.

- clamping made of highly-conductive material
- polyamide insulation (nylon) provides the highest quality
- temperature range: 60 to 110 °C (shortly up to 130 °C)
- in plastic storage case

Item #
80757



## Soldering Connector Set | with Shrink Tube | 9 pcs.

- clear heat-shrinkable sleeve with coloured ring
- allows soldering and shrinking at the same time
- includes 3 pieces each of the following sizes:
  - 2.7 mm inner diameter, 40 mm length
  - 4.5 mm inner diameter, 40 mm length
  - 6.8 mm inner diameter, 40 mm length
- temperature range: -55 - 125 °C

Item #
85220



## Rivet Nuts Assortment | Galvanized Steel | 150 pcs.

- in practical re-usable universal box
- 40 rivet nuts M3 x 9 mm
- 35 rivet nuts M4 x 11 mm
- 25 rivet nuts M5 x 13 mm
- 25 rivet nuts M6 x 15 mm
- 15 rivet nuts M8 x 18 mm
- 10 rivet nuts M10 x 21 mm
- material: steel
- surface finish: galvanised

Item #
14126



## Rivet Nuts Assortment | Aluminium | 150 pcs.

- aluminium
- in practical re-usable universal box
- 40 rivet nuts M3 x 9 mm
- 35 rivet nuts M4 x 11 mm
- 25 rivet nuts M5 x 13 mm
- 25 rivet nuts M6 x 15 mm
- 15 rivet nuts M8 x 18 mm
- 10 rivet nuts M10 x 21 mm

Item #
14127



## Hose Clamp Set | Stainless | on Display Board | 111 pcs.

- rust-proof
- supplied in standing display, can also be mounted on walls
- clamp drive: hexagon 7 mm
- 10 hose clamps, each width: 9 mm: 8 - 12 / 10 - 16 / 12 - 20 / 16 - 25 / 20 - 32 / 25 - 40 / 30 - 45 mm
- 10 hose clamps, each width: 12 mm: 32 - 50 / 40 - 60 / 50 - 70 / 60 - 80 mm
- incl. 7 mm hexagon screwdriver

Item #	Description
8095	Hose Clamp Set   Stainless   on Display Board   111 pcs.
8095-8x12	Hose Clamps   Stainless   8 x 12 mm   10 pcs.
8095-10x16	Hose Clamps   Stainless   10 x 16 mm   10 pcs.
8095-12x20	Hose Clamps   Stainless   12 x 20 mm   10 pcs.
8095-16x25	Hose Clamps   Stainless   16 x 25 mm   10 pcs.
8095-20x32	Hose Clamps   Stainless   20 x 32 mm   10 pcs.
8095-25x40	Hose Clamps   Stainless   25 x 40 mm   10 pcs.
8095-30x45	Hose Clamps   Stainless   30 x 45 mm   10 pcs.
8095-32x50	Hose Clamps   Stainless   32 x 50 mm   10 pcs.
8095-40x60	Hose Clamps   Stainless   40 x 60 mm   10 pcs.
8095-50x70	Hose Clamps   Stainless   50 x 70 mm   10 pcs.
8095-60x80	Hose Clamps   Stainless   60 x 80 mm   10 pcs.



## Hose Clamp Assortment | Ø 16 - 40 mm | 26 pcs.

- in plastic storage case
- 8 hose clamps Ø 16 mm
- 6 hose clamps Ø 22 mm
- 4 hose clamps Ø 25 mm
- 2 hose clamps Ø 28 mm
- 2 hose clamps Ø 35 mm
- 4 hose clamps Ø 40 mm

Item #
8055





## Hose Clamp Assortment | Ø 6 - 16 mm | 30 pcs.

- metric steel hose clamps
- suitable for oil, compressed air and fuel hoses
- 7 hose clamps Ø 6-8 mm
- 7 hose clamps Ø 7-9 mm
- 5 hose clamps Ø 8-10 mm
- 5 hose clamps Ø 9-11 mm
- 3 hose clamps Ø 10-12 mm
- 3 hose clamps Ø 14-16 mm



Item #
9476



## Stainless Steel Hose Clamp Assortment | Ø 5.8 - 21 mm | 170 pcs.

- for use with BGS 161, 8359
- 20 hose clamps Ø 5.8 - 7.0 mm
- 20 hose clamps Ø 7.3 - 9.0 mm
- 20 hose clamps Ø 8.8 - 10.5 mm
- 20 hose clamps Ø 10.8 - 13.3 mm
- 20 hose clamps Ø 12.0 - 14.5 mm
- 20 hose clamps Ø 12.3 - 14.8 mm
- 20 hose clamps Ø 14.5 - 17.0 mm
- 15 hose clamps Ø 16.0 - 19.2 mm
- 15 hose clamps Ø 17.8 - 21.0 mm



Item #
14115

## Hose Clamp Assortment, rubberized | Ø 6 - 16 mm | 18 pcs.

- 8 rubberized hose clamps Ø 6 mm
- 4 rubberized hose clamps Ø 8 mm
- 2 rubberized hose clamps Ø 10 mm
- 2 rubberized hose clamps Ø 13 mm
- 2 rubberized hose clamps Ø 16 mm
- surface finish: galvanised



Item #
14145



## Handle Hose Clamps Assortment | 26 pcs.

- for tool free assembly
- 10 handle hose clamps 13 mm or 1/2"
- 6 handle hose clamps 16 mm or 5/8"
- 6 handle hose clamps 19 mm or 3/4"
- 2 handle hose clamps 22 mm or 7/8"
- 2 handle hose clamps 25 mm or 1"



Item #
80859



## Hose Connector Assortment | Fuel Resistant | 100 pcs.

- for interconnecting hoses, such as vacuum hoses, return lines, etc.
- material: POM (polyoxymethylen)
- fuel and oil resistant
- 25 T-terminals:
  - 10 pcs. x 3 mm
  - 5 pcs. x 5 mm
  - 3 pcs. x 6 mm
  - 3 pcs. x 8 mm
  - 2 pcs. x 10 mm
  - 2 pcs. x 12 mm
- 25 x L-terminals
  - 10 pcs. x 3 mm
  - 5 pcs. x 5 mm
  - 3 pcs. x 6 mm
  - 3 pcs. x 8 mm
  - 2 pcs. x 10 mm
  - 2 pcs. x 12 mm
- 25 I-terminals
  - 10 pcs. x 3 mm
  - 5 pcs. x 5 mm
  - 3 pcs. x 6 mm
  - 3 pcs. x 8 mm
  - 2 pcs. x 10 mm
  - 2 pcs. x 12 mm
- 25 Y-terminals
  - 10 pcs. x 3 mm
  - 5 pcs. x 5 mm
  - 3 pcs. x 6 mm
  - 3 pcs. x 8 mm
  - 2 pcs. x 10 mm
  - 2 pcs. x 12 mm



Consumables



Item #	Description			
8790	Hose Connector Assortment	Fuel Resistant	100 pcs.	
8790-3	Hose Connector Assortment	Fuel Resistant	3 mm	8 pcs.
8790-5	Hose Connector Assortment	Fuel Resistant	3 mm	5 pcs.
8790-6	Hose Connector Assortment	Fuel Resistant	6 mm	8 pcs.
8790-8	Hose Connector Assortment	Fuel Resistant	8 mm	8 pcs.
8790-10	Hose Connector Assortment	Fuel Resistant	10 mm	8 pcs.



## Grease Nipple Assortment | 110 pcs.

- straight, 45° and 90° angled type
- 60 grease nipples M6 x 1.00, straight
- 5 grease nipples M6 x 1.00, 45°
- 5 grease nipples M6 x 1.00, 90°
- 10 grease nipples M8 x 1.25, straight
- 5 grease nipples M8 x 1.25, 45°
- 5 grease nipples M8 x 1.25, 90°
- 10 grease nipples M10 x 1.50, straight
- 5 grease nipples M10 x 1.50, 45°
- 5 grease nipples M10 x 1.50, 90°
- material: carbon steel (A3)
- surface finish: galvanised

Item #
8065



## Grease Nipple Assortment | Metric / Inch Sizes | 70 pcs.

- straight, 45° and 90° angled type
- 20 grease nipples 1/4" x 28 mm, straight
- 5 grease nipples 1/4" x 28 mm, 45°
- 5 grease nipples 1/4" x 28 mm, 90°
- 10 grease nipples 1/8" x 27 mm, straight
- 5 grease nipples 1/8" x 27 mm, 45°
- 5 grease nipples 1/8" x 27 mm, 90°
- 10 grease nipples M6 x 1.0 mm, straight
- 5 grease nipples M8 x 1.0 mm, straight
- 5 grease nipples M10 x 1.0 mm, straight
- material: carbon steel (A3)
- surface finish: galvanised

Item #
8065-1



## Screw and U-Type Cushion Assortment | 170 pcs.

- in plastic storage case
- 40 screws 3 x 8 mm
- 20 screws 4 x 16 mm
- 15 screws 5 x 12 mm
- 10 screws 6 x 20 mm
- 85 mudguard clips/body nuts in various sizes and shapes

Item #
8114



## Wing Nut Assortment | 75 pcs.

- metric
- sizes: M5 x 0.8 - M6 x 1.0 - M8 x 1.25
- in plastic storage case
- surface finish: galvanised

Item #
8133



## Hexagon Nut Assortment | Self-Locking | 146 pcs.

- metric with nylon insert
- in plastic storage case
- 35 hexagon nuts, self-locking, M4
- 35 hexagon nuts, self-locking, M5
- 25 hexagon nuts, self-locking, M6
- 25 hexagon nuts, self-locking, M8
- 16 hexagon nuts, self-locking, M10
- 10 hexagon nuts, self-locking, M12
- surface finish: chrome plated

Item #
8135



## Screw Hook Assortment | 151 pcs.

- open & closed type
- in plastic storage case
- open type: 2.5 x 40 - 4 x 60 - 4.8 x 75 mm
- closed type: 2.2 x 25 - 4.3 x 45 - 4.8 x 50 mm
- surface finish: galvanised

Item #
8136



## Cap Hex Nut Assortment | 150 pcs

- according to DIN 1587
- 30 cap nuts M3
- 30 cap nuts M4
- 30 cap nuts M5
- 30 cap nuts M6
- 20 cap nuts M8
- 10 cap nuts M10
- material: steel
- surface finish: nickel plated

Item #
14130



## Grub Screw Assortment | 160 pcs.

- made of steel
- according to DIN 913
- security bolts with coarse thread:
  - 15 grub screws M3 x 5 mm
  - 15 grub screws M4 x 5 mm
  - 20 grub screws M6 x 6 mm
  - 10 grub screws M6 x 10 mm
  - 20 grub screws M8 x 10 mm
  - 10 grub screws M5 x 6 mm
  - 10 grub screws M8 x 12 mm
  - 10 grub screws M10 x 10 mm
  - 10 grub screws M10 x 12 mm
- security bolts with fine thread:
  - 15 grub screws M6 x 6 mm
  - 15 grub screws M8 x 10 mm
  - 10 grub screws M10 x 10 mm



Item #
14135



## Shrink Tube Assortment | black | 127 pcs.

- fast repair, protects cables from humidity and corrosion
- shrink ratio 2:1
- in plastic storage case

various assorted sizes:

- Ø 2 mm, length 40 mm
- Ø 2.5 mm, length 40 mm
- Ø 3.5 mm, length 40 mm
- Ø 5 mm, length 40 mm
- Ø 7 mm, length 80 mm
- Ø 10 mm, length 80 mm
- Ø 13 mm, length 85 mm



Item #
8042



## Shrink Tube Assortment | coloured | 100 pcs.

- fast repair, protects cables from humidity and corrosion
- shrinkage ratio approx. 2:1
- in plastic storage case
- 30 shrink tubings Ø 1.5 mm, length: 100 mm
- 30 shrink tubings Ø 2.5 mm, length: 100 mm
- 20 shrink tubings Ø 4.0 mm, length: 100 mm
- 10 shrink tubings Ø 6.0 mm, length: 100 mm
- 6 shrink tubings Ø 10.0 mm, length: 100 mm
- 4 shrink tubings Ø 13.0 mm, length: 100 mm



Item #
8123



## Shrink Tube Assortment | red / black | 150 pcs.

- fast repair, protects cables from humidity and corrosion
- shrink rate 2:1
- 40 shrink tubings Ø 2.0 mm, length: 30 mm
- 40 shrink tubings Ø 2.5 mm, length: 60 mm
- 20 shrink tubings Ø 3.5 mm, length: 60 mm
- 16 shrink tubings Ø 5.0 mm, length: 60 mm
- 10 shrink tubings Ø 6.0 mm, length: 60 mm
- 8 shrink tubings Ø 8.0 mm, length: 100 mm
- 8 shrink tubings Ø 10.0 mm, length: 100 mm
- 8 shrink tubings Ø 13.0 mm, length: 100 mm
- in assortment box



Item #
9404



## Shrink Tube Assortment | transparent | 150 pcs.

- fast repair, protects cables from humidity and corrosion
- shrink rate 2:1
- 50 shrink tubings Ø 1.5 mm, length: 100 mm
- 30 shrink tubings Ø 2.5 mm, length: 100 mm
- 30 shrink tubings Ø 3.0 mm, length: 100 mm
- 20 shrink tubings Ø 5.0 mm, length: 100 mm
- 10 shrink tubings Ø 6.0 mm, length: 100 mm
- 10 shrink tubings Ø 10.0 mm, length: 100 mm
- in assortment box



Item #
9405



## Car Fuse Assortment | MINI | 121 pcs.

- fuses colour-coded according to size
- in plastic storage case
- 20 fuses MINI 5 A
- 20 fuses MINI 10 A
- 20 fuses MINI 15 A
- 20 fuses MINI 20 A
- 20 fuses MINI 25 A
- 20 fuses MINI 30 A
- "MINI" fuse puller



Item #
8109





## Car Fuse Assortment | Standard | 92 pcs.

- fuses colour-coded according to size
- in plastic storage case
- 15 standard fuses 5 A
- 15 standard fuses 10 A
- 15 standard fuses 15 A
- 15 standard fuses 20 A
- 15 standard fuses 25 A
- 15 standard fuses 30 A
- voltage tester 6 - 24 V
- fuse puller

Item #
8124



## Car Fuse Assortment | 97 pcs.

- fuses colour-coded according to size
- in plastic storage case
- 12 car fuses 3 A
- 12 car fuses 5 A
- 12 car fuses 7.5 A
- 12 car fuses 10 A
- 12 car fuses 15 A
- 12 car fuses 20 A
- 12 car fuses 25 A
- 12 car fuses 30 A
- incl. fuse puller

Item #
8126



## Car Fuse Assortment | Maxi | 24 pcs.

- dimensions: 30 x 35 mm
- contact distance: 8 mm
- 3 fuses 20 A
- 3 fuses 30 A
- 3 fuses 40 A
- 3 fuses 50 A
- 3 fuses 60 A
- 3 fuses 70 A
- 3 fuses 80 A
- 3 fuses 100 A

Item #
8127





## External Circlip Assortment | Ø 3 - 32 mm | 300 pcs.

- in plastic storage case
- 20 circlips Ø 3 mm
- 10 circlips Ø 4 mm
- 15 circlips Ø 5 mm
- 25 circlips Ø 6 mm
- 15 circlips Ø 8 mm
- 20 circlips Ø 9 mm
- 15 circlips Ø 11 mm
- 15 circlips Ø 12 mm
- 25 circlips Ø 13 mm
- 15 circlips Ø 14 mm
- 20 circlips Ø 15 mm
- 25 circlips Ø 19 mm
- 15 circlips Ø 20 mm
- 20 circlips Ø 22 mm
- 15 circlips Ø 25 mm
- 15 circlips Ø 26 mm
- 10 circlips Ø 28 mm
- 5 circlips Ø 32 mm
- material: manganese steel (65)



Item #
8046



## Internal Circlip Assortment | Ø 3 - 32 mm | 300 pcs.

- in plastic storage case
- 20 circlips Ø 3 mm
- 10 circlips Ø 4 mm
- 15 circlips Ø 5 mm
- 25 circlips Ø 6 mm
- 15 circlips Ø 8 mm
- 20 circlips Ø 9 mm
- 15 circlips Ø 11 mm
- 15 circlips Ø 12 mm
- 25 circlips Ø 13 mm
- 15 circlips Ø 14 mm
- 20 circlips Ø 15 mm
- 25 circlips Ø 19 mm
- 15 circlips Ø 20 mm
- 20 circlips Ø 22 mm
- 15 circlips Ø 25 mm
- 15 circlips Ø 26 mm
- 10 circlips Ø 28 mm
- 5 circlips Ø 32 mm
- material: manganese steel (65)



Item #
8049



## Metric E-Clip Assortment | 1.5 - 22 mm | 300 pcs.

- made of spring steel
- black phosphated
- in plastic storage case
- E-ring circlips 30 x 1.5 mm
- E-ring circlips 30 x 3 mm
- E-ring circlips 40 x 5 mm
- E-ring circlips 50 x 6 mm
- E-ring circlips 50 x 10 mm
- E-ring circlips 40 x 12 mm
- E-ring circlips 20 x 15 mm
- E-ring circlips 20 x 19mm
- E-ring circlips 20 x 22 mm
- material: spring steel
- surface finish: black phosphated

Item #
8039



## Snap Hook Assortment | 20 pcs.

- 6 snap hooks 36 x 17 mm, Ø 3.5 mm
- 4 snap hooks 40 x 20 mm, Ø 4.0 mm
- 4 snap hooks 49 x 23 mm, Ø 5.0 mm
- 2 snap hooks 58 x 27 mm, Ø 6.0 mm
- 2 snap hooks 65 x 31 mm, Ø 7.0 mm
- 2 snap hooks 75 x 34 mm, Ø 8.0 mm

Item #
8078



## Grommet Installation Assortment | 103 pcs.

- 50 grommets, inner diameter 11.5 mm, outer diameter 24 mm
- 3 pcs. installation tool
- universally suitable for many interior repair and DIY work, not suitable for outdoor use
- in plastic storage case

Item #
8111



## Woodruff Key Assortment | 80 pcs.

- in plastic storage case
- each 10 woodruff keys in the following sizes:
  - 3 x 5 x 13 mm
  - 4 x 7.5 x 19 mm
  - 4 x 5 x 13 mm
  - 5 x 7.5 x 19 mm
  - 3 x 6.5 x 16 mm
  - 5 x 9 x 22 mm
  - 4 x 6.5 x 16 mm
  - 6 x 9 x 22 mm

Item #
8117



## Electrical Clip Assortment | 28 pcs.

- alligator clips and charging clips in assortment box
- surface finish: galvanised

Item #
8138



## Molly Bolt Assortment | 40 pcs.

- metric
- sizes: 4 - 5 - 6 mm (each long + short)
- in plastic storage case
- surface finish: galvanised

Item #
8139



## Plastic Plug Assortment | 58 pcs.

- for closing the following bore sizes:
  - 10 plugs Ø 10.0 mm
  - 10 plugs Ø 13.4 mm
  - 10 plugs Ø 13.5 mm
  - 8 plugs Ø 19.4 mm
  - 10 plugs Ø 19.5 mm
  - 10 plugs Ø 22.2 mm
- in assortment box

Item #
9406



## Screw Securing Wire

- ideal for securing screws
- size: Ø 0.7 mm x length: 15 m
- for use with wire spinning pliers
- material: stainless steel

Item #
8478



## Ramp Set | foldable | 2 pcs.

- multi-purpose and mobile
- for loading and unloading quads, motor bikes, lawn mowers etc.
- can also be used as car stand when folded
- suitable for trailers with 700 to 900 mm loading height
- maximum capacity per ramp: 1.100 kg (folded), 350 kg (unfolded)
- space saving because it folds
- dimensions 580 x 160 x 265 mm (folded)
- overall length 1985 mm (unfolded)
- carrying handle for easy transport
- length: 1985 mm

Item #
2999



## Access Ramp | 1 pc

- extra strong and wide finish
- 840 mm deep
- height: 210 mm
- capacity: 2 tons when using 2 platforms
- for tyres up to 195 mm width
- to be used pairwise only

Item #
3001



## Car Positioning Shells | 1 Pair | 680 kg

- heavy duty type
- capacity per piece: 680 kg (for safety reasons use pairwise only)
- ideal for manoeuvring in small areas
- each car positioning shell has 4 single lockable wheels
- ideal tyre grip on the car positioning shell because of checkered plate surface

Item #
9480





## Car Positioning Shells | 1 Pair | 450 kg

- capacity per piece: 450 kg
- ideal for maneuvering in e.g. small areas
- with 4 steel castor wheels
- lateral struts prevent the tyre from slipping
- max. tyre width: 360 mm
- length: 605 mm
- width: 385 mm



Item #	Description
8386	Car Positioning Shells   1 Pair   450 kg
8386-1	Rollers for BGS 8386

## Car Positioning Jack | hydraulic | 600 kg

- easier to maneuver in the smallest space
- ideal for exhibitions, workshops and towing companies

### BGS 1975

- load capacity 600 kg per positioning jack
- tire width up to max. 290 mm
- ground clearance: 145 mm
- max. lifting roll distance: 650 mm (extended)
- min. lifting roll distance: 300 mm (retracted)
- dimensions: 630 x 550 mm

### BGS 8604

- load capacity kg per positioning jack
- tire width up to max. 330 mm
- ground clearance: 160 mm
- max. lifting roll distance: 610 mm (extended)
- min. lifting roll distance: 355 mm (retracted)
- dimensions: 650 x 620 mm



Item #	Description
1975	Floor Jack   600 kg
1979	Replacement Wheel for BGS 1975, 8604
1975-1	Hydraulic Cylinder for BGS 1975
8604	Floor Jack   600 kg
8604-1	Hydraulic Cylinder for BGS 8604



## Truck Tyre Cart

- facilitates the transport of truck wheels
- lifting frame width: 500 mm
- lifting frame depth: 350 mm
- max. wheel weight: 68 kg
- width: 500 mm



Item #
9236

## Axle stands | 1 pair

- heavy duty, 4 leg finish
- 10-step ratchet-type action
- with rubber pad

Item #	Description
3014	Axle Stands   load capacity 2000 kg / pair   stroke 278 - 423 mm   1 pair
3014-9	Rubber Protector for Axle Stands BGS 3014
3015	Axle Stands   load capacity 3000 kg / pair   stroke 285 - 420 mm   1 pair
3015-9	Rubber Protector for Axle Stands BGS 3015
3016	Axle Stands   load capacity 6000 kg / pair   stroke 420 - 600 mm   1 pair
3016-9	Rubber Protector for Axle Stands BGS 3016



## Hydraulic Jacks

- BGS 1870, 1871 und 1974,  
spindle length 60 mm (adjustable)
- BGS 1872,  
spindle length 70 mm (adjustable)
- BGS 1973,  
spindle length 80 mm (adjustable)



Item #	Description
1871	Hydraulic Jack   3 t
1872	Hydraulic Jack   5 t
1974	Hydraulic Jack   20 t



## Hydraulic Jack | 10 t

- spindle length: 80 mm
- max. height: 520 mm
- min. height: 210 mm
- lifting height: 245 mm
- rated load capacity: for up to 10 t

Item #
1977



## Air Hydraulic Jack | 20 t

- or compressed air use, can also be operated by hand pump
- max. capacity: 20,000 kg
- size of foot: 223 x 133 mm
- min. height: 260 mm
- max. height: 510 mm
- adjustable height: 80 mm
- stroke: 170 mm
- working pressure 8 to 9 bar
- weight: 16.3 kg

Item #
2883



## Jack | pneumatic | mobile | 22 t

- piston stroke: 120 mm
- 4 attachments for different min. and max. heights:
  - Ø 48 mm, length 20, 60 and 100 mm
  - Ø 68 mm, length 25 mm
- 80 mm lifting spindle, adjustable
- air inlet: 6.3 mm (1/4") NPT
- wheel diameter: 72 mm
- air hose: 10 mm outer diameter, length 1.2 m
- working pressure: 6.9 – 8.3 bar (120 – 200 PSI)
- max. lifting height 435 mm
- working pressure: 6.9 - 8.3 bar
- rated load capacity: 22 t
- free height 260 mm



Item #
2888



## Floor Jack | hydraulic | Aluminium | 1.5 t

- low weight aluminium construction
- min. height: 125 mm
- max. height: 340 mm
- length 492 mm
- width: 230 mm
- weight 9.2 kg
- front castors: Ø 65 mm
- steering castors: Ø 40 mm
- with convenient carrying handle

Item #
2885



## Floor Jack | hydraulic | Aluminium-Steel Construction | 1.5 t

- dual piston hydraulic
- durable and lightweight aluminum-steel construction
- lever tube partly with protector prevents damage to the vehicle
- low headroom, thus particularly suitable for vehicles with low ground clearance
- length: 554 mm
- max. lifting height 358 mm
- min. lifting height 90 mm
- weight: 15.5 kg
- rated load capacity: 1.5 t

Item #
2897



## Floor Jack | hydraulic | Aluminium-Steel Construction | 2.5 t

- dual lifting piston
- durable and lightweight aluminum-steel construction
- min. height: 155 mm
- front castors: Ø 65 mm
- steering castors: Ø 45 mm
- length: 640 mm
- width: 285 mm
- max. height: 460 mm
- min. height: 100 mm
- power supply: 26.6 kg
- rated load capacity: for up to 2.5 t



Item #	Description
2889	Floor Jack   hydraulic   Aluminium-Steel Construction   2.5 t
2889-1	Spare Hydraulic Unit   for BGS 2889
2889-2	Replacement Rubber Pad   for BGS 2889



## Floor Jack | hydraulic | extra flat | 2 t

- extremely low headroom, also suitable for vehicles with low ground clearance
- lifting side has double castors with tilt mechanism for better manoeuvring through grids, etc.
- castors made of PU for low running noise
- foam coated lever prevents damage to the car
- jacketed handle ring for more convenient operation
- additional foot pedal for quick lifting
- max. lifting capacity: 2000 kg
- min. height: 70 mm
- max. height: 500 mm
- weight: 40 kg
- length: 822 mm
- width: 360 mm
- height: 214 mm
- max. lifting height 500 mm
- min. lifting height 70 mm
- weight 40 kg
- rated load capacity: for up to 2 t

Item #
9252



## Floor Jack | hydraulic | 3 t

- rugged steel construction
- 2 casters & 2 swivel casters, made of steel
- min. height: 130 mm
- max. height: 465 mm
- weight 27.7 kg
- length: 540 mm
- width: 330 mm
- height: 240 mm
- rated load capacity: 3 t

Item #
9255



## Floor Jack | hydraulic | 3 t

- for lifting and manoeuvring of vehicles
- 4 metal castors, 2 swivel castors
- max. load: 3,000 kg
- lifting height: 140 - 520 mm
- weight 36.5 kg
- dimensions: (L x W x H) 660 x 344 x 180 mm (height without lifting tube)

Item #
9248



## ATV/Quad Car Jack | 2500 kg

- especially for off-road vehicles with a high ground clearance
- allows easy lifting, even when lifting on soft underground
- has a setback locking mechanism for actuating tube
- lifting capacity (max): 400 kg
- max. lifting height: 930 mm
- min. lifting height: 130 mm
- weight: 14.5 kg
- rated load capacity: 2500 kg



Item #
2884

## Hydraulic Workshop Press | 20 t

- facilitates renewal of e.g. wheel bearings, gear shaft bearings, rubber bushings etc.
- large work area with 9-way adjustable supporting surface
- big pressure gauge working: 0 - 1000 bar (0 - 14,500 psi)
- range: 20-1030 mm
- width: 530 mm
- stroke: 150 mm
- weight: 95 kg



Item #	Description
9246	Hydraulic Workshop Press   20 t
9246-1	Hydraulic Pump for BGS 9246
9246-2	Hydraulic Cylinder for BGS 9246
9246-3	Pressure Gauge for BGS 9246

