

WIPER ARM DISASSEMBLY

Wiper arm bit socket for tamper-proof TX screws for BMW

- Tamper-proof TX
- Ideally suited to the assembly and disassembly of windscreen wiper arms
- Also ideal for setting the contact pressure, e.g. after replacing the windscreen
- Tamper-proof for the seating of the windscreen wiper bearing axle
- Chrome vanadium

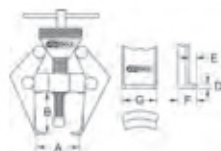
Application range: BMW E31, E32, E34, E38, E39



		L mm	
911.1387	TB80	55.0	150

Universal windscreen wiper arm puller 2-jaw with t-bar

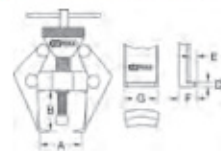
- 2-jaw
- Ideally suited to the protective removal of windscreen wiper arms
- With t-bar
- With external, narrow socket for tight spaces
- With conical self-tensioning clamping screws for proportional tension force distribution
- Self-centring jaw puller
- Extremely robust spindle with inductively hardened thread
- Special steel



	A mm	B mm	max l		D mm	E mm	F mm	G mm	
700.1190	15	32	1.2	M8 x 50	2,5	9	10,5	11	300

Universal windscreen wiper arm puller 2-jaw with t-bar

- Tough design
- 2-jaw
- Ideally suited to the protective removal of windscreen wiper arms
- With t-bar
- With narrow socket for tight spaces
- With conical self-tensioning clamping screws for proportional tension force distribution
- Self-centring jaw puller
- Extremely robust spindle with inductively hardened thread
- Special steel

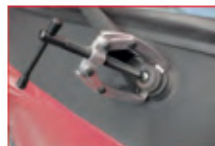


	A mm	B mm	max l		D mm	E mm	F mm	G mm	
700.1179	45	37	1.2	M10 x 105	5	8	16	8	294

Volkswagen and Porsche windscreen wiper arm puller 2-jaw with t-bar

- 2-jaw
- Ideally suited to the protective removal of windscreen wiper arms
- With t-bar
- Automatic gripping of hooks
- Extremely robust spindle with inductively hardened thread
- Screwed on
- Robust hooks
- Special steel

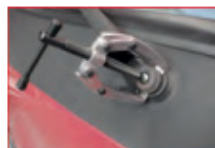
Application range: Volkswagen Touareg, Porsche Cayenne and other SUVs, Ford Galaxy, Seat Alhambra



	A mm	B mm	max l		D mm	E mm	F mm	G mm	
700.1164	10-60	40	0,5	M10 x 60	2,6	5,5	12,8	10,0	145

Universal windscreen wiper arm puller 2-jaw with t-bar

- 2-jaw
- Ideally suited to the protective removal of windscreen wiper arms
- With t-bar
- Automatic gripping of hooks
- Extremely robust spindle with inductively hardened thread
- Screwed on
- Robust hooks
- Special steel



	A mm	B mm	max l		D mm	E mm	F mm	G mm	
700.1165	10-60	60	0,5	M10 x 80	3,7	5,8	12,4	10,1	173
700.1166	10-70	80	0,5	M10 x 100	4,0	9,2	16,8	14,0	245

VAG windscreen wiper arm puller 2-jaw

- 2-jaw
- Ideally suited to the protective removal of windscreen wiper arms
- Hollow puller spindle for damage-free support on the wiper arm shaft with washer nozzle
- Extremely robust spindle with inductively hardened thread
- Prevents damage to the bodywork and the windscreen wiper arm
- Internal square drive to DIN 3120 - ISO 1174
- Special steel

Application range: especially for VAG rear windscreen wiper with integrated washer nozzle



	A mm	B mm			D mm	E mm	F mm	G mm	
700.1185	10-60	34	17	M12x1,25 x 34	3	5	14	15	1,00

VAG, Ford and Mercedes windscreen wiper arm puller 2-jaw

- 2-jaw
- Ideally suited to the protective removal of windscreen wiper arms
- Hollow puller spindle with brass cover for damage-free support on the wiper arm shaft with washer nozzle
- Ball bearing mounted centring point
- Extremely robust spindle with inductively hardened thread
- Spindle guidance is carried out in a moving sleeve
- Prevents damage to the bodywork and the windscreen wiper arm
- Internal square drive to DIN 3120 - ISO 1174
- Special steel

Application range: especially for VAG, Ford Galaxy, Seat Alhambra, Mercedes A and B class rear windscreen wiper with integrated washer nozzle



	A mm	B mm			D mm	E mm	F mm	G mm	
700.1189	20-60	50	13	M10x115	4	4	9	12	243

Universal windscreen wiper arm puller with pulling yoke

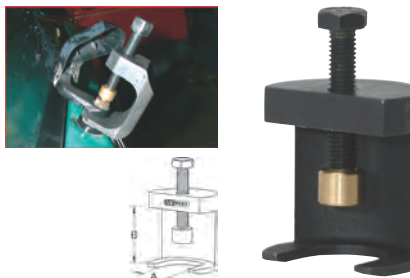
- With pulling yoke
- Ideally suited to the protective removal of windscreen wiper arms
- Pulling spindle for damage-free support to the rear wiper blades
- Extremely robust spindle with inductively hardened thread
- Prevents damage to the bodywork and the windscreen wiper arm
- With adjustment dial for manual operation
- With narrow socket for tight spaces
- Special steel



	A mm	B mm	mm	mm	g
700.1193	16	28	11	M8 x 45	140

Universal windscreen wiper arm puller with pulling yoke

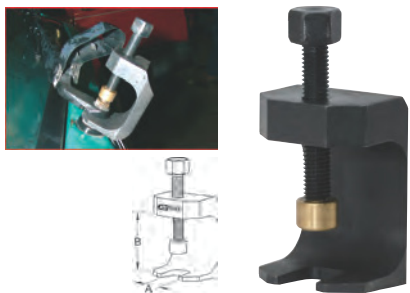
- Tough design
- With pulling yoke
- Ideally suited to the protective removal of windscreen wiper arms
- Pulling spindle with brass cap for damage-free support on the washer arm shaft
- Extremely robust spindle with inductively hardened thread
- Spindle guidance is carried out in a moving sleeve
- Prevents damage to the bodywork and the windscreen wiper arm
- With narrow socket for tight spaces
- Special steel



	A mm	B mm	mm	mm	g
700.1191	26	28	13	M8 x 75	450

Universal windscreen wiper arm puller with pulling yoke

- With pulling yoke
- Ideally suited to the protective removal of windscreen wiper arms
- Pulling spindle with brass cap for damage-free support on the washer arm shaft
- Extremely robust spindle with inductively hardened thread
- Spindle guidance is carried out in a moving sleeve
- Prevents damage to the bodywork and the windscreen wiper arm
- With narrow socket for tight spaces
- Special steel



	A mm	B mm	mm	mm	g
700.1192	16	41	17	M10 x 80	510

BMW windscreen wiper arm puller with adjustable jaw

- With adjustable pulling yoke with spring mechanism
- Ideally suited to the protective removal of windscreen wiper arms
- Pulling spindle with brass cap for damage-free support on the washer arm shaft
- Extremely robust spindle with inductively hardened thread
- Spindle guidance is carried out in a moving sleeve
- Prevents damage to the bodywork and the windscreen wiper arm
- With narrow socket for tight spaces
- Special steel

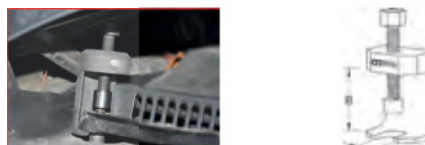
Application range: BMW 3, 5, 6, 7 and 8 series, Z4, Z8 Roadster, X5 and Rolls Royce Phantom



	A mm	B mm	mm	mm	g
700.1178	16-38	42	17	M10 x 85	500

Universal windscreen wiper arm puller with fork

- With pulling yoke
- Ideally suited to the protective removal of windscreen wiper arms
- Pulling spindle with brass cap for damage-free support on the washer arm shaft
- Extremely robust spindle with inductively hardened thread
- Spindle guidance is carried out in a moving sleeve
- Prevents damage to the bodywork and the windscreen wiper arm
- With narrow socket for tight spaces
- Special steel

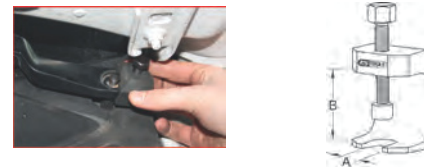


	A mm	B mm	mm	g
700.1198	23,5	48	8	240

Audi Q7 windscreen wiper arm puller with fork

- With pulling yoke
- Ideally suited to the protective removal of windscreen wiper arms
- Pulling spindle for damage-free support to the rear wiper blades
- Extremely robust spindle with inductively hardened thread
- Prevents damage to the bodywork and the windscreen wiper arm
- With narrow and fl t socket for tight spaces
- Special steel

Application range: Audi Q7



	A mm	B mm	mm	g
700.1194	26,5	16	16	173

Universal windscreen wiper arm puller set 2/4-jaws

- 2/4-jaws
- each with 2 extra-slim size and pairs of arms with varying width
- Ideally suited to removal of windscreen wiper arms
- Pulling spindle for damage-free support to the rear wiper blades
- Option of working with wide or narrow arms
- Ball bearing mounted centring point
- With narrow socket for tight spaces
- Extremely robust spindle with inductively hardened thread
- Prevents damage to the bodywork and the windscreen wiper arm
- External drive hexagonal socket 13.0 mm
- Special steel



		g
700.1242	6 pcs Universal windscreen wiper arm puller set 2/4-jaws	690

consists of:

		g
700.1246	Traverse arm	100
700.1245	Spindle M12 x 90 mm	150
700.1247	Pair of legs – slim type	100
700.1248	Pair of legs – wide type	100

Windscreen wiper arm puller set

- Ideally suited to disassembly of windscreen wiper arms
- Suited to a multitude of vehicle types and car brands
- Self-stiffening or recessed built-in washer arms are quickly disassembled with this set
- Prevents damage to the bodywork and the windscreen wiper arm
- Spindle guidance is carried out in a moving sleeve
- Special steel
- In durable plastic storage case



Part No.	Quantity	Description	Weight (kg)
700.1155	6 pcs	Windscreen wiper arm puller set	2.86

consists of:

Part No.	Description	Weight (kg)
700.1194	Audi Q7 wiper arm puller with fork	173
700.1189	VAG, Ford and Mercedes windscreen wiper arm puller 2-jaw	243
700.1191	Windscreen wiper puller, type 2, 13mm	450
700.1192	Windscreen wiper puller, type 3, 17mm	510
700.1198	Universal wiper arm puller with fork	240
700.1179	Universal wiper arm 2-jaw puller with 1-bar	284



Universal windscreen wiper arm puller set

- Ideally suited to disassembly of windscreen wiper arms
- Includes impact hammer puller
- Universally fitting puller set suitable for approx. 450 windscreen wipers, 300 vehicles and 30 car brands
- Self-stiffening or recessed built-in washer arms are quickly disassembled with this set
- Washers with washer nozzle in the centre of the wiper arm can be worked on either with the impact hammer or with the hollow spindle attachment
- Option of working with mechanical or impact spindle
- Prevents damage to the bodywork and the windscreen wiper arm
- Special steel
- In durable plastic storage case

Application range: Audi, BMW, Citroën, Ford, Mercedes, Opel, Peugeot, Renault, Volkswagen



Part No.	Quantity	Description	Weight (kg)
700.1240	13 pcs	Universal windscreen wiper arm puller set	3.81

consists of:

Part No.	Description	Weight (kg)
700.1232	Spindle, L=95mm, M12	170
700.1233	Fork size #1	110
700.1234	Fork size #2	140
700.1235	Fork size #3	150
700.1236	Fork size #4	110
700.1237	Fork size #5	150
700.1238	Fork size #6	100
700.1239	Fork size #7	100
700.1241	Fork size #8	170
700.1242	Wiper puller	690
700.1243	Spindel extension 30mm, 1,700.1232/42	20
700.1244	Hollow spindle adaptor, 1,700.1232/42	20

WASHER NOZZLE TOOL AND MAGNET LIFTER

Washer nozzle cleaning and adjusting tool

- Practical service tool
- With sturdy, scriber-like centre
- With narrow cleaning rod
- Ideally suited to the cleaning and adjustment of windscreen washer nozzles
- Also suited to the adjustment of headlight washer nozzles
- With mounting clip for breast pocket
- Includes protective covers
- Aluminium



Part No.	Length (mm)	Weight (kg)
550.1022	95.0	40

Washer nozzle adjustment tool with telescopic magnet

- Practical service tool
- Load capacity up to 0.5 kg
- With sturdy, scriber-like centre
- Removable telescopic magnet function with extra-narrow magnet
- Ideally suited to the adjustment of windscreen washer nozzles
- Also suited to the adjustment of headlight washer nozzles
- Extended telescopic rod shows the direction of the nozzle jets on the glass
- With mounting clip for breast pocket
- Includes protective cover
- Aluminium



Part No.	Head Ø (mm)	L (mm)	Weight (kg)
550.1001	8.0	150,0 - 675,0	25

Washer nozzle adjustment tool with telescopic magnet with flexible magnet head

- Practical service tool
- Load capacity up to 2.5 kg
- With sturdy, scriber-like centre
- Removable telescopic magnet function with flexible magnet head
- Ideally suited to the adjustment of windscreen washer nozzles
- Also suited to the adjustment of headlight washer nozzles
- Extended telescopic rod shows the direction of the nozzle jets on the glass
- With mounting clip for breast pocket
- Includes protective cover
- Aluminium



Part No.	Head Ø (mm)	L (mm)	Weight (kg)
550.1023	11.0	150,0 - 590,0	60

Windscreen nozzle adjusting tool for Opel

- For damage-free adjustment of fl 1 nozzles on rear windcreens and windscreen wiper systems
- Accurate profile for the interchanging of nozzle heads
- Universal usage
- With PVC dipped handle
- Special steel

Application range: Opel Astra, Insignia, etc.



Part No.	Length (mm)	Weight (kg)
140.2359	145.0	63

Telescopic magnetic lifter

- Magnet power raised 35% due to energy safety cap
- Stainless steel



	Head Ø mm	L mm	Weight
550.1004	13.0	178,0-675,0	70

Telescopic magnetic lifter

- Load capacity to 1.5 kg
- Extendable telescopic function
- Magnet power raised 35% due to energy safety cap
- Stainless steel



	Head Ø mm	L mm	Weight
550.1002	18.0	178,0-675,0	80

Telescopic magnetic lifter

- Load capacity to 2 kg
- With an extendable telescopic function
- Clip for the breast pocket
- Special steel



	Head Ø mm	L mm	Weight
550.1000	13.0	130,0-630,0	30

Telescopic magnetic lifter

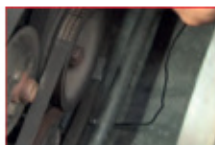
- Load capacity to 5 kg
- With rotary head
- With an extendable telescopic function
- Magnet power raised 35% due to energy safety cap
- Stainless steel



	Head Ø mm	L mm	Weight
550.1003	18.0	200,0-700,0	90

Flexible magnetic holder

- 200 g capacity
- Flexible shaft
- 4 mm with a very thin magnetic seat
- One component handle



	L mm	Weight
550.1032	400.0	20

Flexible magnet lifter

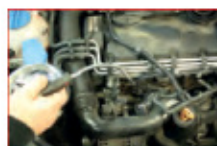
- Load capacity to 2 kg
- Detachable inner cover
- Magnet power raised 35% due to energy safety cap
- Special steel



	Head Ø mm	L mm	Weight
550.1010	10.0	585.0	130

Flexible magnet lifter

- Load capacity to 1 kg
- Flexible shaft
- Two component handle
- Special steel



	Head Ø mm	L mm	Weight
550.1025	15.0	510.0	185

Flexible magnet lifter

- Load capacity to 2 kg
- Flexible shaft
- Two component handle
- Special steel



	Head Ø mm	L mm	Weight
550.1026	17.0	510.0	200



Flexible magnet lifter

- Load capacity to 3 kg
- Flexible shaft
- Two component handle
- Special steel



	Head Ø mm	L mm	Weight
550.1027	19.0	510.0	200



Flexible pick up tool

- Flexible
- Circular diameter max. 20.0 mm
- Stainless steel



	Ø mm	L mm	Weight
550.1301	20	600.0	150

Magnet lifting and claw type gripper set

- Ideally suited for picking up screws and small parts
- Load capacity to 200 g
- Flexible shaft
- 4 mm with a very thin magnetic seat
- Pick-up tool with max. diameter of 20.0 mm
- Magnet holder with one component handle
- Stainless steel pick-up tool



	Weight
550.1050 2 pcs Magnet lifting and claw type gripper set	182

consists of:

	Weight
550.1301 Flexible claw pickup tool, 600mm	150
550.1032 Flexible magnet, 400mm	20

DASHBOARD PANEL

Professional dashboard protective panel with straight edges, 270 x 200 mm

- Ideal for protecting the dashboard, interior trim and roof lining from damage when removing windscreen
- Protective panel with straight front edges
- Ensures clean and professional work
- For different areas
- Incorporated handle for exact placement and secure grip
- High-strength plastic



	L mm	B mm	Wt g
140.2323	270.0	200.0	230

Professional dashboard protective panel with slightly angled edges, 270 x 200 mm

- Ideal for protecting the dashboard, interior trim and roof lining from damage when removing windscreen
- Each with two protective panels with straight and slightly angled front edges
- Ensures clean and professional work
- For different areas
- Incorporated handle for exact placement and secure grip
- High-strength plastic



	L mm	B mm	Wt g
140.2324	270.0	200.0	230

Professional dashboard protective panel with straight edges, 450 x 300 mm

- Ideal for protecting the dashboard, interior trim and roof lining from damage when removing windscreen
- Protective panel with straight front edges
- Ensures clean and professional work
- For different areas
- Incorporated handle for exact placement and secure grip
- High-strength plastic



	L mm	B mm	Wt g
140.2321	450.0	300.0	450

Professional dashboard protective panel with slightly angled edges, 450 x 300 mm

- Ideal for protecting the dashboard, interior trim and roof lining from damage when removing windscreen
- Protective panel with slightly angled front edge
- Ensures clean and professional work
- For different areas
- Incorporated handle for exact placement and secure grip
- High-strength plastic



	L mm	B mm	Wt g
140.2322	450	300.0	450

Professional dashboard protective panel set

- Ideal for protecting the dashboard, interior trim and roof lining from damage when removing windscreen
- Each with two protective panels with straight and slightly angled front edges
- Ensures clean and professional work
- For different areas
- Incorporated handle for exact placement and secure grip
- High-strength plastic



	Wt g
140.2320	4 pcs Professional dashboard protective panel set 1.36

consists of:

		Wt g
140.2321	Professional protection board straight 450 x 300 mm	450
140.2322	Professional protection board angled 450 x 300 mm	450
140.2323	Professional protection board straight 270 x 200 mm	230
140.2324	Professional protection board angled 270 x 200 mm	230



INTERIOR AND WING MIRROR

ERGOTORQUE^{plus} screwdriver for TX screws, tamperproof

- Two component handle
- Optimal power transmission
- With hanging hole
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm	Wt g
159.1054	TB20	205.0	100.0	105.0	50

ERGOTORQUE⁺ screwdriver for TX screws, long

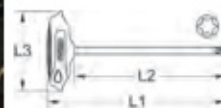
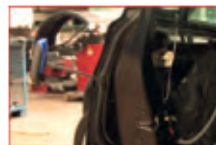
- One component handle
- Optimal power transmission
- With hanging hole
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm	Wt g
911.1670	T15	330.0	250.0	80.0	60
911.1671	T20	343.0	250.0	93.0	60
911.1672	T25	345.0	250.0	95.0	70
911.1673	T30	360.0	250.0	110.0	70

ERGOTORQUE^{plus} T-handle TX key wrench, long

- Extra long execution
- With two component handle
- Continuous hardened
- Tip burnished
- Chrome plated and mirror polished
- Special steel



		L1 mm	L2 mm	L3 mm	Wt g
158.8051	T10	403.0	373.0	80.0	30
158.8052	T15	403.0	373.0	80.0	30
158.8053	T20	403.0	373.0	100.0	40
158.8054	T25	408.0	373.0	100.0	40
158.8055	T27	408.0	373.0	100.0	40
158.8056	T30	408.0	373.0	100.0	45

ERGOTORQUE^{plus} T-handle TX key wrench set

- Extra long execution
- With two component handle
- Continuous hardened
- Tip burnished
- Chrome plated and mirror polished
- Special steel



158.8050	6 pcs	T10 - T15 - T20 - T25 - T27 - T30	375
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Interior mirror pliers

- Ideally suited to a clean and damage-free removal of the interior mirror
- With 4 joints
- Isolated mouth for non-destructive working
- For mirror bases up to Ø 65 mm
- With PVC dipped handle
- Interchangeable protective jaw
- Chrome plated and mirror polished
- Chrome vanadium



	A mm	C mm	L mm	Replacement jaws	Weight
116.1200	20,0 - 65,0	45,0	225,0	116.1201	320

Double ended mirror screwdriver

- Clip for the breast pocket
- Knurled grip
- Aluminium

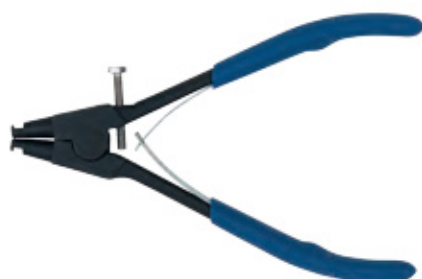
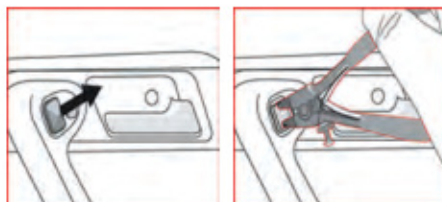


	D	L mm	Weight
140.2216	T15 x PH0	120,0	50
140.2217	2,0 mm x 3/32"	120,0	50
140.2218	T15 x T20	120,0	50

Wing mirror pliers

- Perfectly suited to assembly and disassembly of wing mirrors
- With opening limits
- With adjusting screw and spring
- With PVC dipped handle
- Special tool steel

Application range: Wing mirrors for BMW E12, E21, E24, E28, E30, E31, E32, E34, E36, E38 and E39



	Length mm	Weight
115.1305	165,0	180

One handed mini suction cup

- Practical one-handed operation by lever
- For lifting, carrying and holding
- Quick, easy and correct work on small objects
- Well-suited to adjusting and inserting mirror glass
- Load capacity up to 8 kg
- With release button
- Special plastic



	Suction cup Ø mm	H mm	L mm	Weight
140.1015	70,0	92,0	115,0	168

SENSORS

Rain and light sensor release tool

- Ideally suited to quick and easy removal of the SOR-199 sensor optic on the windscreen
- A damage-free disassembly is ensured with this tool by completely surrounding the sensor
- Once the sensor has been surrounded it is simply pulled out to the side
- By warming the windscreen from the outside, the adhesive for the sensor is easier to remove
- With rounded internal edges with four nuts
- With plastic handle
- Special steel

Application range: Alfa Romeo, BMW, Mercedes, Rover, etc..



	L mm	B mm	Weight
140.2366	200,0	80,0	130

Rain and light sensor release tool

- Ideally suited to quick and easy removal of the SOR-193x sensor optic (all versions) on the windscreen
- A damage-free disassembly is ensured with this tool by completely surrounding the sensor
- Once the sensor has been surrounded it is simply pulled out to the side
- By warming the windscreen from the outside, the adhesive for the sensor is easier to remove
- With cornered inner edges
- With plastic handle
- Special steel

Application range: All BMW models from 09/2001 onwards



	L mm	B mm	Weight
140.2367	200,0	83,0	135

Rain and light sensor release tool

- Ideally suited to quick and easy removal of the SOR-197x sensor optic (all versions) on the windscreen
- A damage-free disassembly is ensured with this tool by completely surrounding the sensor
- Once the sensor has been surrounded it is simply pulled out to the side
- By warming the windscreen from the outside, the adhesive for the sensor is easier to remove
- With rounded inner edges
- With plastic handle
- Special steel

Application range: Mercedes E class, CLK from 2002 onwards, C class from 2003 onwards and S class from 2003 onwards



	L mm	B mm	Wt g
140.2368	230,0	83,0	145

Windscreen rain or light sensor removal tool set

- Ideally suited to quick and easy removal of the SOL-193x sensor optic, SOL-197x (all versions) and SOR-199 on the windscreen
- A damage-free disassembly is ensured with this tool by completely surrounding the sensor
- Once the sensor has been surrounded it is simply pulled out to the side
- By warming the windscreen from the outside, the adhesive for the sensor is easier to remove
- With plastic handle
- Special steel



		Wt g
140.2365	3 pcs Windscreen rain or light sensor removal tool set	410

consists of:

		Wt g
140.2366	Release tool with rounded inner edges	130
140.2367	Release tool with cornered inner edges	135
140.2368	Release tool with rounded inner edges and nuts	145

PLASTIC WEDGES

Standard clip remover

- With wedge shaped end
- With lifting and wedge function
- Ideal for loosening panels without damage to the paintwork
- Special plastic



	L mm	B mm	Wt g
911.8125	210,0	20,0	80

Trim removal wedge

- With wedge shaped end
- Narrow execution
- With 2 different levering angles
- Angled sides have a 90° and 30° angle
- Ideal for loosening panels without damage to the paintwork
- Special plastic



	L mm	B mm	Wt g
911.8122	180,0	20,0	40

Double clip remover

- With wedge shaped end
- Very robust execution
- With 2 different lever angles at 75° and 30°
- Special plastic



	L mm	B mm	Wt g
911.8123	200,0	30,0	70

Bumper trim removal wedge

- With wedge shaped end
- Wide execution
- With 90° angled side
- Ideal for loosening panels without damage to the paintwork
- Special plastic



	L mm	B mm	Wt g
911.8121	160,0	60,0	80

Clip remover with pulling eye

- With wedge shaped end
- Pulling eye for removal
- With 90° angled side
- Ideal for loosening panels without damage to the paintwork
- Special plastic



	L mm	B mm	Wt g
911.8124	180,0	30,0	70

Plastic lever wedge set

- Ideal for loosening miscellaneous cover parts
- Practical assortment of different wedge and clip removal tools
- Slim and robust design
- Ideal for avoiding paint damage and damage-free release of interior trims, panels, etc.
- For delicate work on fragile cover parts
- Special plastic



		Wt g
911.8120	5 pcs Plastic lever wedge set	300

consists of:

		Wt g
911.8121	Bumper trim removal wedge, 160 mm	80
911.8122	Trim removal wedge, 180 mm	40
911.8123	Double clip wedge, 200 mm	70
911.8124	Clip lever, with wedge shaped end, 180 mm	70
911.8125	Standard clip wedge, with wedge shaped end, 210 mm	80

Dual clip remover, offset

- Flat shaped back
- Durable design
- With straight- and sharp chisel end
- Ideal for loosening panels without damage to the paintwork
- With hanging hole
- Special plastic



	L mm	B mm	Wt g
911.8106	200,0	30,0	40

Dual clip remover, straight profile

- Flat shaped back
- Durable design due to straight profil
- Blunt chisel end
- Ideal for loosening panels without damage to the paintwork
- With hanging hole
- Special plastic



	L mm	B mm	Wt g
911.8107	200,0	30,0	40

Double ended clip lever narrow

- Flat shaped back
- Narrow execution
- Wedge end tips pointed and chisel formed
- Ideal for loosening panels without damage to the paintwork
- With hanging hole
- Special plastic



	L mm	B mm	Weight
911.8110	200.0	15.0	20

Double ended pointed and rounded head lever

- Flat shaped back
- Flattened and flexible radius side
- Blunt chisel side
- Ideal for loosening clips
- With hanging hole
- Special plastic



	L mm	B mm	Weight
911.8108	200.0	25.0	20

Double ended sword and rounded head lever

- Flat oval on the front and back side
- Both ends chisel edged formed
- Flexible
- Ideal for loosening clips
- With hanging hole
- Special plastic



	L mm	B mm	Weight
911.8109	200.0	20.0	20

Adhesive weight remover with saw blade

- Ideal for protective disassembly of adhesive wheel weights on aluminium rims
- With flexible flange scraper and cutting edge
- Lever back flange side chisel form, cutting side with teeth
- Special lever for the removal of wheel weights
- Also suitable for the removal of labels, adhesive and type plates
- Surfaces are not damaged
- Sharpened with a file
- Solvent-resistant
- Special plastic



	L mm	B mm	Radius chamfered in mm	Weight
911.8111	200.0	25.0	38.0	20



Interior panelling removal tool set

- Ideal for loosening miscellaneous cover parts
- Practical assortment of different wedge and clip removal tools
- Slim and robust design
- Ideal for avoiding paint damage and damage-free release of interior trims, panels, etc.
- For delicate work on fragile cover parts
- Special plastic



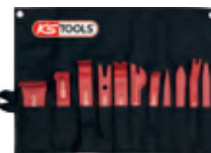
	Weight
911.8105 6 pcs Interior panelling removal tool set	280

consists of:

		Weight
911.8106	Double ended-clip remover, offset	40
911.8107	Dual-clip remover, straight profile, 200 mm	40
911.8108	Double ended pointed and rounded head lever	20
911.8109	Double ended sword and rounded head lever, 200 mm	20
911.8110	Double ended-wedge lever, slim	20
911.8111	Adhesive weight removal lever and cutting edge Length 200 mm, width 25 mm	20

Plastic lever wedge set

- Ideal for loosening miscellaneous cover parts
- Practical assortment of different wedge and clip removal tools
- Slim and robust design
- Ideal for avoiding paint damage and damage-free release of interior trims, panels, etc.
- For delicate work on fragile cover parts
- Special plastic
- In a practical storage case



	Weight
911.8205 11 pcs Plastic lever wedge set	530

consists of:

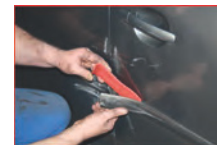
		Weight
911.8106	Double ended-clip remover, offset	40
911.8107	Dual-clip remover, straight profile, 200 mm	40
911.8108	Double ended pointed and rounded head lever	20

consists of:

		Weight
911.8109	Double ended sword and rounded head lever, 200 mm	20
911.8110	Double ended-wedge lever, slim	20
911.8111	Adhesive weight removal lever and cutting edge Length 200 mm, width 25 mm	20
911.8121	Bumper trim removal wedge, 160 mm	80
911.8122	Trim removal wedge, narrow version, with wedge shaped end, 180 mm	40
911.8123	Double clip wedge, with wedge shaped end, 200 mm	70
911.8124	Clip lever, with wedge shaped end, 180 mm	70
911.8125	Standard clip wedge, with wedge shaped end, 210 mm	80

Plastic wedge and glass scraper set

- Ideal for loosening miscellaneous cover parts
- Practical range of different wedge and glass scrapers
- Slim and robust design
- Ideal for avoiding paint damage and damage-free release of interior trims, panels, etc.
- For delicate work on fragile cover parts
- Special plastic



	Weight
911.8210 4 pcs Plastic wedge and glass scraper set	120

consists of:

		Weight
911.8211	Glass scraper, straight, 175 mm	20
911.8212	Glass scraper, angled, 175 mm	30
911.8213	Wedge, cornered, 175 mm	30
911.8214	Wedge, curved tip, 175 mm	30

Moulding wedge with felt

- With felt trimming
- For the careful assembly by pressing in trim mouldings
- The felt surface protects components
- Suitable for the aligning of car doors or to force them open
- Special plastic



	L mm	B mm	Weight
911.8141	250.0	20.0	70

Plastic lever and beveled wedge

- The felt surface protects components
- Ideally suited for working on trims, door panels, rubber seals etc.
- Special plastic



	L mm	B mm	Weight
911.8142	250.0	20.0	30

Trim plastic wedge

- Ideal for the aligning of car doors or to force them open
- The fl t surface protects components
- Suitable for working on trims, door panels, rubber seals etc.
- Special plastic



	L mm	B mm	W
911.8138	195.0	30.0	90
911.8139	195.0	60.0	150

Trim removal combination wedge

- Ideally suitable for the dismantling and assembly of trims
- Door mouldings, door accessories etc
- Swallow tail opening 45° angled
- The fl t surface protects components
- Optimal leverage with the short wedge and long lever
- Optimal usage for removal and refi tting trims and mouldings cutting edges on the ends
- Special plastic



	L mm	B mm	W
911.8140	210.0	26.0	90

Plastic lever wedge set

- Ideal for the aligning of car doors or to force them open
- The fl t surface protects components
- Suitable for working on trims, door panels, rubber seals etc.
- Impact resistant special plastic



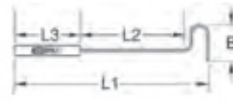
		W
911.8160	5 pcs Plastic lever wedge set	430

consists of:

		W
911.8138	Trim plastic wedge, L=195mm x B=30mm	90
911.8139	Trim plastic wedge, L=195mm x B=60mm	150
911.8140	Trim plastic wedge, L=210mm x B=26mm	90
911.8141	Moulding wedge with felt, L=250mm x B=20mm	70
911.8142	Plastic lever and beveled wedge, L=250mm x B=20mm	30

Removal wedge

- Ideally suited for the dismantling of sensitive components
- The fl t surface protects damaging laquer
- Ideal for hard to access areas
- Special plastic



	L1 mm	L2 mm	L3 mm	B mm	W
911.8119	600.0	340.0	200.0	30.0	340



TRANSPORT AND STORAGE

Windscreen table with rubber protective pads

- Ideally suited for holding the windscreen when removing, or removing adhesive material
- Four moveable rubber nipples hold the windscreen in place and prevent scratches
- Fully adjustable in width
- For nearly all windscreen sizes
- Foldable to save space during storage
- Robust construction
- Up to 80 kg capacity
- From zinc coated steel pipe



	L mm	H mm	Substrat- Q-tin	Rubber pad	W
140.2225	1030.0	1040.0	125.0	140.2225-1	8.40

Windscreen worktable with castors

- Ideally suited for holding the windscreen when removing, or removing adhesive material
- Holding tube with non-slip, coated padding offer optimal grip and prevent scratches
- For nearly all windscreen sizes
- Foldable to save space during storage
- With 4 stable castors, 2 with locking brakes
- Simple handling
- Load capacity up to 100 kg
- Robust construction from steel pipe



	L mm	H mm	Prod	W
140.2227	900.0	930.0	140.2228	8.00

Windscreen holder

- Ideally suited for holding the windscreen when removing, or removing adhesive material
- Holding tube with non-slip, coated padding offer optimal grip and prevent scratches
- Fully adjustable in width
- For nearly all windscreen sizes
- Foldable to save space during storage
- Robust construction
- Up to 80 kg capacity
- From zinc coated steel pipe



	L mm	H mm	Prod	W
140.2226	1030.0	940.0	140.2226-1	6.60

Universal Telescopic-Multi-purpose trolley

- Ideally suited to bodywork restoration, in the painting area or for filling screens when removing, or applying adhesive material, etc.
- Holding tube with non-slip, coated padding offer optimal grip and prevent scratches
- The multi-talented universal use, since width and height are fully adjustable and lockable
- For nearly all windscreen sizes
- Can also be used as a work bench or for carrying parts
- Collapsible to save space during storage
- With 4 stable castors, 2 with locking brakes
- Simple handling
- Load capacity up to 100 kg
- Robust construction from square pipe



	B mm	H mm	kg
500.8100	257,0-1380,0	845,0-1320,0	23,50

PLATFORM

Aluminium work platform

- With skid-proof profile on the running stage
- With chequer plate profile on the steps
- No tipping over through obliquely placed standing feet
- Double-sided access
- With large platform for safe standing
- With safety clips for added security
- Beams and steps made from aluminium
- Collapsible and therefore space saving when storing
- Rounded plastic feet protect the floor and the running stage
- Secure stand makes working easier
- Can be used to assemble screens, engine bay work, work on the roof, commercial vehicle pit work, etc.
- Universally usable for high vehicles such as camper vans, small transporters, wagons, buses and off-road vehicles
- Heavy aluminium construction



Technical data:
 Platform dimensions: 1000 x 300 mm
 Height: 480.0 mm
 Total load capacity: 150 kg

	L mm	B mm	kg
800.0960	1345,0	405,0	7,40

Safety assembly step

- No tipping over through obliquely placed standing feet
- Anti slip, hot dip galvanised, with the frame riveted lattice rustproof
- Step to DIN 50976
- Massive and distortion stiff steel tube construction
- Base frame plastic coated
- The gripped plastic feet protect the surface and add stability
- Applicable e.g. panel assembly, engine compartment works, roof works truck pit working
- Universal suitable in very high vehicles e.g. motor homes, small vehicles, truck and buses, terrain vehicles



Technical data:
 Height 2nd step: 450.0 mm
 Surface area: 690 x 620
 Steel grating: 590 x 290
 Total load capacity: 300 kg

		kg
450.0960	Safety assembly step	14,00

REMOVAL TOOL - NON GLUED CAR WINDSCREENS

Windscreen trim remover

- Ideally suited to levering off trims on windcreens or other similar trims
- With flat, blade-like lever head
- With the special lever shape there is high leverage force, which easily loosens the parts to be removed
- Also suitable for the removal of screens mounted with solid rubber
- PVC dipped handle
- Chrome vanadium



	L mm	kg
140.2285	240,0	140

Mould release tool set

- With rubber underside to prevent damage from scratches
- For removing the clips on bonded car screens
- Ideally suited to removing double clips, which are barbed on both sides
- Can be used for all clip types that must be tightened with the windscreen
- Overall length 220.0 mm
- With suspension hole
- PVC dipped handle



			kg
140.2202	2 pcs	Mould release tool set	280

consists of:

		kg
140.2351	Trim and air ventilation remover right handed	140
140.2352	Trim and air ventilation remover left handed	140

Glass hook with ball end, extra long

- Extra long execution
- For the dismantling and assembly of rubber sealings and trim strips
- For protective lifting or cleaning of sealings
- With hanging hole
- With one component handle



	L mm	kg
140.2229	295,0	160

Glass hook with long shaft

- Pointed execution
- For rubber bonded vehicle windcreens
- Hanging hole
- One component handle



	L mm	kg
140.2233	270,0	120

Ball head with short shaft

- For rubber bonded vehicle windcreens
- Hanging hole
- One component handle



	L mm	kg
140.2235	210,0	120

Glass hook with short shaft

- Pointed execution
- For rubber bonded vehicle windcreens
- Hanging hole
- One component handle



	L mm	kg
140.2234	200,0	110

Locking strip insertion tool

- For non bonded vehicle windcreens
- With 6 interchangeable yoke heads
- Quick insertion of the different rubber profiles is possible
- With hanging hole
- With one component handle



	L mm	Yoke head	kg
140.2236	160,0	140.2236-1	220

Locking tool

- 6 m nylon cord
- For the professional dismantling of vehicle rubbered non bonded windscreens
- Hanging hole
- One component handle



	L mm	Weight
140.2237	170.0	120

Windscreen installation set

- For problem-free assembly of front windscreens with traditional rubber seals and for inserting trim
- Universal usage
- Includes inserter with 6 yoke heads for various seal profiles
- Contains different tools for cleaning the internal seal profiles
- Tool with hanging hole
- With one component handle

Application range: passenger cars, transporters, commercial vehicles, buses and classic cars



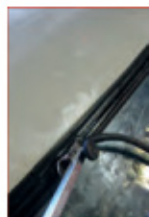
	Weight
140.2240 5 pcs Windscreen installation set	890

consists of:

	Weight
140.2233 Glass hook, for rubber windscreen inserts 270 mm	120
140.2234 Glass hook, for rubber windscreen inserts 200 mm	110
140.2235 Glass hook, for rubber windscreen inserts 210 mm	120
140.2236 Tapered tool for strip insertion, 160 mm	220
140.2237 Locking tool with 6 m pull nylon cord, 170 mm	120

Screen rubber assembly tool

- Ideally suited to the introducing beading in the conventional windscreen sealant
- Not suitable for adhered screens
- Includes 2 eyelets for different bead sizes
- With one component handle
- Special steel



	Length mm	Weight
140.2253	210.0	155

Gasket ring dismantling tool

- Burnished
- Chrome vanadium



	L1 mm	L2 mm	L3 mm	D mm	Weight
550.1060	300.0	195.0	85.0	12.0	380

Hook tool set

- Ideal for removing and use of O rings and seals
- With one component handle
- With hanging hole
- Special steel



	Weight
550.1045 4 pcs Hook tool set	120

consists of:

	Weight
550.1046 Hook tool 120mm blade, straight version	27
550.1047 Hook tool 120mm blade, 45° angled version	27
550.1048 Hook tool 120mm blade, 90° angled version	27
550.1049 Hook tool 120mm blade, 135° angled version	27

Master hook tool set

- Ideal for removing and use of O rings and seals
- With hanging hole
- Special steel



	Weight
550.1070 9 pcs Master hook tool set	680

consists of:

	Weight
550.1046 Hook tool 120mm blade, straight version	27
550.1047 Hook tool 120mm blade, 45° angled version	27
550.1048 Hook tool 120mm blade, 90° angled version	27
550.1049 Hook tool 120mm blade, 135° angled version	27
550.1071 Hook tool large, straight	91
550.1072 Hook tool large, 90° offset	105
550.1073 Hook tool large, sickle form	88
550.1074 T-handle hook tool, S-form small	42
550.1075 T-handle hook tool, S-form big	96

PANEL BAG

Panel bag

- Universal usage for positioning, fixing and separating body parts
- Ideal for the damage-free opening of car doors
- Levelling tool for the installation of door and window frames
- Extremely high pressure power
- Easy to pump with the hand pump
- Robust panel bag



	L mm	B mm	Weight
116.1035	200.0	150.0	190

Panel bag set with hand pump

- Universal usage for positioning, fixing and separating body parts
- Ideal for the damage-free opening of vehicle doors
- Levelling tool for the installation of door and window frames
- For separating interior trim
- Pumping via a hand pump with valve connector
- Release valve on the bellows
- Extremely high pressure power



	Weight
150.1685 4 pcs Panel bag set with hand pump	300

consists of:

	Weight
150.1686 Hand bellows	84
150.1687 Panel bag 180 x 40mm	23
150.1688 Panel bag 190 x 60mm	27
150.1689 Panel bag 160 x 160mm	47

REMOVAL TOOL - GLUED CAR WINDSCREENS

Long knife for trim seals

- For the use with conventional trapezoid blades and hook blades
- Includes a replacement blade in the handle
- Non slip handle
- Aluminium



	L mm	Replacement handle	Weight
140.2284	230.0	907.2206	300
140.2290	470.0	907.2206	320
140.2291	620.0	907.2206	380

Pull knife

- With flexible pull handle
- Ideal for the removal of adhered vehicle screens
- Also suitable for hard-to-reach places or corners
- Includes 25 mm blade
- Practical one-man operation
- Aluminium



	L mm	Replacement handle	Weight
140.2241	130.0	140.2247	240

Pull knife

- PVC dipped stop and pull handle
- With flexible pull handle
- Ideal for the removal of adhered vehicle screens
- Also suitable for hard-to-reach places or corners
- Includes 25 mm blade
- Practical one-man operation
- Also suitable for use as a scraper
- Aluminium



	L mm	Replacement handle	Weight
140.2244	130.0	140.2246	310

Pull knife with quick change system

- PVC dipped stop and pull handle
- With flexible pull handle
- Ideal for the removal of adhered vehicle screens
- Also suitable for hard-to-reach places or corners
- Includes 25 mm blade
- Quick blade changing system with a push button
- Practical one-man operation
- Also suitable for use as a scraper
- Aluminium



	L mm	Replacement handle	Weight
140.2248	130.0	140.2246	350

Pull knife set with quick change system

- PVC dipped stop and pull handle
- With flexible pull handle
- Ideal for the removal of adhered vehicle screens
- Also suitable for hard-to-reach places or corners
- Quick blade changing system with a push button
- Practical one-man operation
- Also suitable for use as a scraper
- Insert made from high quality foam
- Aluminium



	Weight
140.2239 10 pcs Pull knife set with quick change system	1,55

consists of:

	Weight
140.2248 Pull knife, quick change system, 130mm	350
140.2356 Stainless steel pull blade set, blade length 25 mm, 3 part.	45
140.2357 Stainless steel pull blade set, blade length 38 mm, 3 part.	50
140.2358 Seam scraper blade set, blade length 19 mm, 3 part	115

Stainless steel pull knife blade

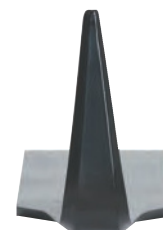
- Blade length 38 mm
- Blade tip tapered
- Extra slim execution
- Stainless steel



	Content	Weight
140.2271	1	20
140.2272	6	120

Pull knife blade

- Blade length 19 mm
- Blade tip tapered
- Slim execution
- Special steel



	Content	Weight
140.2273	1	20
140.2274	6	120

Stainless steel standard pull knife blade

- Blade length 25 mm
- Blade in sword form
- Attachment length 13 mm
- Not for quick change system
- Stainless steel



	Content	Weight
140.2296	1	20
140.2297	6	120

Stainless steel standard pull knife blade

- Blade length 30 mm
- Blade in sword form
- Attachment length 13 mm
- Not for quick change system
- Stainless steel



	Content	Weight
140.2298	1	20
140.2299	6	120

Stainless steel pull knife blade

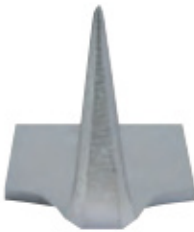
- Blade length 25 mm
- Blade tip tapered
- Extra slim execution
- Stainless steel



Content		
140.2269	1	20
140.2270	6	120

Stainless steel pull knife blade

- Blade length 19 mm
- Blade tip tapered
- Extra slim execution
- Stainless steel



Content		
140.2267	1	20
140.2268	6	120

Pull knife blade

- Blade length 25 mm
- Blade tip tapered
- Slim execution
- Special steel



Content		
140.2275	1	20
140.2276	6	120

Pull knife blade

- Blade length 38 mm
- Blade tip tapered
- Slim execution
- Special steel



Content		
140.2277	1	20
140.2278	6	100

Standard pull knife blade

- Blade length 25 mm
- Blade in sword form
- Attachment length 13 mm
- Not for quick change system
- Special steel



Content		
140.2292	1	20
140.2293	6	120

Standard pull knife blade

- Blade length 32 mm
- Blade in sword form
- Attachment length 13 mm
- Not for quick change system
- Special steel



Content		
140.2294	1	20
140.2295	6	120

Special pull knife blade

- Blade length 25 mm
- Precise and easy cutting
- Newly developed toothed cutting edge
- Extremely substantial and resilient
- Precise guide on the blade and the cutting edge
- Knife blade can be repeatedly sharpened
- Ideally suited in all standard practice hand cutting knives
- High quality chrome-nickel-nirostasteel



Content		
140.2342	1	15
140.2343	5	90

Special pull knife blade

- Blade length 38 mm
- Precise and easy cutting
- Newly developed toothed cutting edge
- Extremely substantial and resilient
- Precise guide on the blade and the cutting edge
- Knife blade can be repeatedly sharpened
- Ideally suited in all standard practice hand cutting knives
- High quality chrome-nickel-nirostasteel



Content		
140.2344	1	15
140.2345	5	90

Special pull knife blade

- Blade length 20 mm
- Precise and easy cutting
- Newly developed toothed cutting edge
- Extremely substantial and resilient
- Precise guide on the blade and the cutting edge
- Knife blade can be repeatedly sharpened
- Ideally suited in all standard practice hand cutting knives
- High quality chrome-nickel-nirostasteel



Content		
140.2340	1	15
140.2341	5	90

Universal Sharpening stone

- For the sharpening of pull knife blades and universal knife blades machine blades etc
- Hanging hole
- One component handle



L mm		
140.2238	170.0	60

Windscreen cutting wire pull handle set

- Cutting edge wire is attached by means of a cone in the handle
- Ergonomically designed hand grip
- With one component handle



Content		
140.2210	2 pcs. Windscreen cutting wire pull handle set	110

consists of:

Content		
140.2353	Windscreen cutting wire pull handle, single	65

Windscreen cutting wire pull handle set, heavy execution

- Optimal working in any direction
- Cutting edge wire is attached by means of a cone in the grip
- Ergonomically designed hand grip
- Two component handle



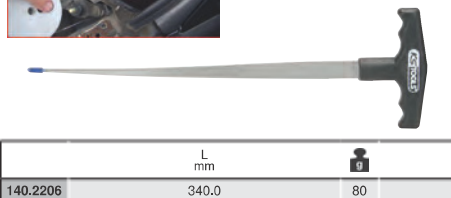
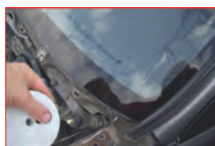
Content		
140.2201	2 pcs. Windscreen cutting wire pull handle set, heavy execution	600

consists of:

Content		
140.2354	Windscreen cutting wire pull handle, heavy execution, single	300

Wire feeder starter tool

- For powerful piercing through the glue trim and inserting the cutting edge wire
- Slotted probe end for inserting the cutting wire
- With spring steel blade
- With one component handle



	L mm	g
140.2206	340.0	80

Cutting wire insertion tool

- Ideal for confined spaces
- For the optimal usage against stop of the cutting edge wire in the inner area
- Ideal for particularly heavily bonded joints
- Without inner stop to reduce any chance of damage
- With one component handle



	L mm	g
140.2205	350.0	220

T-handle wire inserting tool

- For piercing the glue trim and inserting the cutting edge wire
- With steel tube hollow needle
- Aluminium



	L mm	g
140.2207	125.0	60

Cutting wire set with cutting wire

- For cutting working
- For cutting of accessible glue pinch welds
- With steel tube hollow needle
- Ergonomically designed hand grip
- Stainless steel wire



	L mm	g	
140.2250	4 pcs	Cutting wire set with cutting wire	270

consists of:

	L mm	g
140.2207	T-handle wire inserting tool	60
140.2210	Windscreen cutting wire pull handle-set, 2 pcs	110
140.2214	Square windscreen cutting wire	100

Cutting wire set with sawing wire

- Very flexible
- Operates like a saw
- Best suited for cutting of wide and hard glue bondings
- With steel tube hollow needle
- Ergonomically designed hand grip



	L mm	g	
140.2245	4 pcs	Cutting wire set with sawing wire	680

consists of:

	L mm	g
140.2207	T-handle wire inserting tool	60
140.2210	Windscreen cutting wire pull handle-set, 2 pcs	110
140.2211	Braided Windscreen cutting wire, 22,5 m	80

Square windscreen cutting wire

- Best cutting edge effect
- For cutting working
- Best suited for cutting of wide and hard glue bondings in hard to access areas
- Stainless steel wire



	L m	g
140.2214	22.5	100
140.2215	50.0	200

Windscreen cutting wire, braided

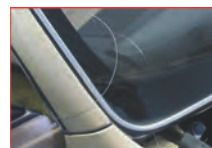
- Very flexible
- Operates like a saw
- Best suited for cutting of wide and hard glue bondings in hard to access areas
- Ø 0.8 mm



	L m	g
140.2211	22.5	80
140.2212	50.0	160

Screen cutting wire, 3 point

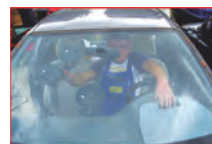
- Best cutting edge effect
- Cutting works
- Best suited to cutting through easily accessible adhesive beading
- Ø 0.8 mm
- Stainless steel wire



	L m	g
140.2213	21,0	93

Universal one-man operation windscreen removal device

- Universal usage
- Ideal for the correct and careful removal of adhered front windcreens as well as most rear and side screens
- With large guide rollers, which require less power and minimise the danger of wire snapping
- Wire lead directly in front of the windscreen, therefore omitting the costly disassembly of trim parts in most cases
- Easy one-man operation
- Especially high-quality pump suction for secure windscreen holding
- Suction power per disc up to 110 kg
- Moveable suction disk also for heavily cambered screens
- In durable plastic storage case



	L mm	g	
140.2360	5 pcs	Universal one-man operation windscreen removal device	4,81

consists of:

	L mm	g
140.2331	Screen removal tool, with 2 suction cups	5200
140.2334	Bodkin to 140.2234	56
140.2335	Wire to 140.2330	103
140.2336	Wire directing holder with single suction cup	577
310.0175	Clear eye goggles, sporty design	30



Windscreen dismantling set

- Ideal for the correct disassembly of adhered front wind-screens as well as most rear and side screens
- The set contains everything needed to remove adhered screens
- Easy operation
- In durable plastic storage case



			kg
140.1040	8 pcs	Windscreen dismantling set	2.78

consists of:

			kg
140.2230		Dismantling lever for interior panels	160
140.2231		Double trim strip remover	70
911.8126		Professional-Scraper	90
140.2206		Wire feeder-starter tool	80
140.2213		Cutting wire on a roll	93
140.2241		Standard Pull cutting knife	240
140.2210		Windscreen cutting wire pull handle-set, 2 pcs	110

Windscreen repair kit

- Ideal for the correct disassembly of adhered front wind-screens as well as most rear and side screens
- The set contains everything needed to remove adhered screens
- Includes suction cup and trim
- Easy operation
- In durable plastic storage case



			kg
140.1065	13 pcs	Windscreen repair kit	6.00

consists of:

			kg
	X		
140.1006	2	Double suction cups up to 80 kg load capacity	730
140.1021	2	Suction holder for trim mounting, single	40
140.2205	1	Cutting wire take up tool, 350 mm	220
140.2206	1	Wire feeder-starter tool	80
140.2211	1	Braided Windscreen cutting wire, 22.5 m	80
140.2215	1	Roll-cutting wire	200
140.2220	1	Mastic cartridge cutters, 210 mm	420
140.2353	2	Windscreen cutting wire pull handle, single	65
907.2215	1	Pinch weld scraper with quick release system, 11 pcs	100
911.8126	1	Professional-Scraper	90

Pneumatic oscillating cutter

- 90° offset execution
- Air exhaust through used air tube
- For one handed operation with ergonomic design
- For the professional dismantling of vehicle discs
- Universal blade reception for all standard blades
- Secure operation lever with locking device
- Stepless speed regulation
- Includes 1/4" coupling connector and blade changing spanner
- Robust steel housing



Technical data:
 Oscillating speed: 2000/min
 No load current: 20000 r.p.m.
 Vibration: 4,3 m/s²
 Noise performance level: 79,8 dbA
 Noise pressure level: 69,9 dbA
 Air consumption: 300 l/min
 Operating pressure: 6,3 bar (90 psi)
 Min. tube diameter: 3/8" - 10 mm
 Connection thread: 1/4"PT

	L mm	Ø mm	kg
140.2251	725.0	Ø 22 mm	1.27

Cutting / scraper blades

- For the pneumatic oscillating cutter
- Special steel



		kg
140.2252	Scraper blade, offset, blade width 16 mm	20
140.2255	Cutting blade, straight, offset, length 50 mm	20
140.2256	Cutting blade, straight, offset, length 90 mm	30
140.2261	Cutting blade, angled, offset, cutting depth 55 mm	20
140.2263	Cutting blade, straight, cutting depth 35 mm	10



		kg
515.5093	Scraper blade, curved, curved, blade length 16 mm	13
515.5094	Scraper blade, curved, curved, blade length 36 mm	13
515.5095	Scraper blade, curved, curved, blade length 63 mm	13
515.5096	Scraper blade, curved, curved, blade length 90 mm	25
515.5097	Scraper blade, curved, straight, blade length 24 mm	12

Pneumatic oscillating cutter set

- 90° offset execution
- Air exhaust through used air tube
- For one handed operation with ergonomic design
- For the professional dismantling of vehicle discs
- Universal blade reception for all standard blades
- Secure operation lever with locking device
- Stepless speed regulation
- Includes 1/4" coupling connector and blade changing spanner
- Robust steel housing



			kg
140.2219	6 pcs	Pneumatic oscillating cutter set	1.51

consists of:

			kg
140.2251		Pneumatic-oscillating cutter	1270
140.2252		Scraper blade, offset, blade width 16 mm	20
140.2256		Cutting blade, straight, offset, length 90 mm	30
140.2261		Cutting blade, angled, offset, cutting depth 55 mm	20
140.2263		Cutting blade, straight, cutting depth 35 mm	10
140.2255		Cutting blade, straight, offset, length 50 mm	20

SUCTION PADS

Suction holder set

- Plastic-coated steel cable with PVC suction cups
- For fixing side windows during work to and on the doors
- Secures freshly adhered windows against slipping
- With suction cups and steel band for optimal hold
- Easy to operate



140.1060	2 pcs	Suction holder set	540
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Trim and window mounting set

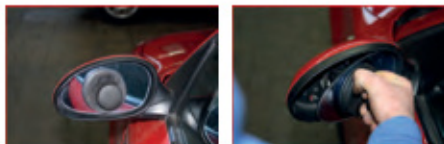
- For fixing and holding trims, emblems and windscreen mountings
- Wide side can also be used as a scraper or lever
- With suction cup
- Quick and easy mounting
- Simple to remove by lifting the tab
- Dosing of the contact pressure with the wing nut



	Length mm	Suction cup Ø mm	Weight kg
140.1020	6 pcs	180.0	85.0

Mini vacuum suction cup

- For lifting, carrying and holding
- For flat and non porous surfaces
- Max. 15 kg carrying capacity - perpendicular to sucker
- Suitable for adjusting and insertion of shower trays
- Solid rubber



	Suction cup Ø mm	Height mm	Weight kg
140.1004	80.0	55.0	100

One handed mini suction cup

- Practical one-handed operation by lever
- For lifting, carrying and holding
- Quick, easy and correct work on small objects
- Well-suited to adjusting and inserting mirror glass
- Load capacity up to 8 kg
- With release button
- Special plastic



	Suction cup Ø mm	H mm	L mm	Weight kg
140.1015	70.0	92.0	115.0	168

Suction pad with folding clamps

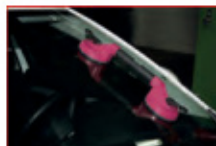
- With sturdy handle
- Creates a vacuum by folding the clamps
- For lifting, carrying and holding or flattening small dents
- For flat and non-porous surfaces
- Quick, easy and correct work on small objects
- Well-suited to transporting bulky items
- Load capacity up to 40 kg
- Special plastic



	Suction cup Ø mm	Height mm	Weight kg
140.1005	118.0	40.0	370

Double suction holder

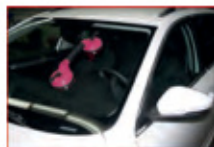
- With sturdy handle
- The suckers fit on every flat surface and are easy to use with two quick release handles
- Ideal for cambered car windows
- For lifting, carrying and holding
- For flat and non-porous surfaces
- Quick, simple and correct work
- Well-suited to transporting bulky items
- Load capacity up to 80 kg
- Special plastic



	Suction cup Ø mm	Load capacity kg	Weight kg
140.1006	120.0	80.0	730

Double suction cup with tilting arm

- With sturdy handle
- The suckers fit on every flat surface and are easy to use with two quick release handles
- Ideal for cambered car windows
- For lifting, carrying and holding
- Suitable for all materials with gas-tight surfaces
- All metal parts made from rust-free steel, making use in swimming pools, outdoor construction sites or in coastal areas possible
- Quick, simple and correct work
- Well-suited to transporting bulky items
- Load capacity up to 80 kg
- Special plastic



	Suction cup Ø mm	Load capacity kg	Weight kg
140.1008	150.0	80.0	1.01



Double suction cup set

- With sturdy handle
- The suckers fit on every flat surface and are easy to use with two quick release handles
- Ideal for cambered car windows
- For lifting, carrying and holding
- For flat and non-porous surfaces
- Quick, simple and correct work
- Well-suited to transporting bulky items
- Load capacity up to 80 kg
- Ratchet belt for fixing the freshly adhered car windscreen
- Special plastic



			Weight kg
140.1010	3 pcs	Double suction cup set	1.75

consists of:

	X		Weight kg
140.1006	2	2 x Double suction cups up to 80 kg load capacity	730
140.1003	1	Ratchet tie down strap	310

Three way suction holder

- With sturdy handle
- The three suckers fit over flat surface and are easy to use with two quick release handles
- Ideal for cambered car windows
- For lifting, carrying and moving large parts
- For flat and non-porous surfaces
- Quick, simple and correct work
- Well-suited to transporting bulky items
- Load capacity up to 120 kg
- Special plastic



	Sucker cup Ø mm	Load capacity kg	
140.1007	120.0	120.0	1,13



Quadruple suction pad with movable suckers

- Ideally suited to the assembly and disassembly of large front windcreens
- The four suckers with a handy vacuum pump allow for a secure fit on every flat surface.
- Ideal for cambered car windows
- For lifting, carrying and moving large parts
- For flat and non-porous surfaces
- Quick, simple and correct work
- Well-suited to transporting bulky items
- Load capacity up to 50 kg
- Special plastic
- Aluminium frame



	Length mm	Height mm	Sucker cup Ø mm	Load capacity kg	
140.1009	1310.0	280.0	150.0	50	5,80

GLASS REPAIR

SlimPOWER mini-pneumatic burnisher

- 90° offset execution
- Air exhaust through the handle rear end
- For one hand operation
- Ideal for curved cutting
- For working in hard to access areas
- Secure operation lever with locking device
- With stepless speed regulation
- Vibration dampened
- Very compact construction
- Receiver: External thread
- Includes 3 Velcro receivers
- Includes 1/4" coupling connector
- Robust housing



- Technical data:**
- Capacity: 190 Watt
 - No load current: 4000 r.p.m.
 - Sponge diameter: 50 + 75 mm
 - Polishing sponge diameter: 46 mm
 - Vibration: 1,5 ms²
 - Noise performance level: 95 dbA
 - Noise pressure level: 81 dbA
 - Air consumption: 240.66 l/min
 - Min. tube diameter: 1/4" - 4,8 mm
 - Operating pressure: max. 5,5 bar (80 psi)
 - Connection thread: 1/4"

	B mm	L mm	
515.5125	55.0	140.0	600

Grinding disc

- With Velcro receiver
- With internal thread receiver



	Ø mm	Material	Count	
515.5101	46,0	flexible	5	275
515.5102	75,0	flexible	5	125
515.5103	46,0	rigid	5	55

Burnishing pads

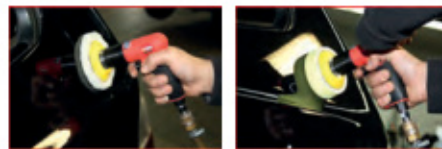
- For burnishing of smooth surfaces



	Ø mm	Material	Colour code	Count	
515.5126	50,0	plastic	yellow	5	10
515.5122	85,0	plastic	yellow	5	55
515.5127	50,0	plastic	white	5	10
515.5123	85,0	plastic	white	5	55
515.5128	50,0	plastic	black	5	10
515.5129	50,0	leather		5	48
515.5124	80,0	leather		5	80

Mini pneumatic burnisher set

- For hard to reach places and improvement work
- With non-slip soft-grip-handle
- 90° offset execution
- Air exhaust through the handle rear end
- For one hand operation
- Ideal for curved cutting
- For working in hard to access areas
- Vibration dampened
- Very compact construction
- Grinding disc with Velcro
- Includes 1/4" coupling connector
- Receiver: Internal thread
- Robust housing
- In durable plastic storage case



- Technical data:**
- No load current: 2500 r.p.m.
 - Vibration: 1,5 ms²
 - Noise performance level: 92 dbA
 - Noise pressure level: 81 dbA
 - Air consumption: 113 l/min
 - Operating pressure: max. 5,2
 - Min. tube diameter: 10 mm
 - Connection thread: 1/4"

515.5120	5 pcs Mini pneumatic burnisher set	1,96

consists of:

515.5121	1/4" mini burnishing machine	1000
515.5122	Burnishing pads yellow, Ø 85,0mm	55
515.5123	Burnishing pads white, Ø 85,0mm	55
515.5124	Burnishing pads, Ø 80,0mm	80
515.5112	Grinding disc Ø76.5 mm	20

Grinding disc

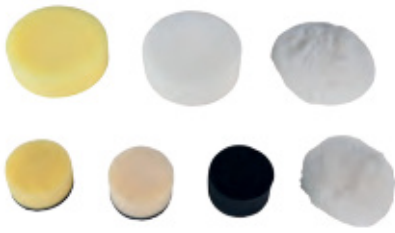
- With Velcro receiver
- With external thread receiver



	Ø mm	Material	Count	
515.5113	46,0	flexible	5	13
515.5112	76,5	flexible	5	20

Burnishing pads

- For burnishing of smooth surfaces



	Ø mm	Material	Colour code	Content	g
515.5126	50,0	plastic	yellow	5	10
515.5122	85,0	plastic	yellow	5	55
515.5127	50,0	plastic	white	5	10
515.5123	85,0	plastic	white	5	55
515.5128	50,0	plastic	black	5	10
515.5129	50,0	leather		5	48
515.5124	80,0	leather		5	80

SCRAPERS

Scraper

- Ideal for removing stickers, seal and glue residues
- With easily interchangeable blades
- With reinforcement eyelet
- Plastic handle



	Length mm	Width mm	g	g
911.8126	160,0	38,0	911.8127	90

Scraper

- Ideal for removing stickers, seal and glue residues
- With easily interchangeable blades
- With reinforcement eyelet
- Scraper blade retractable via spline end for protection
- With metal housing

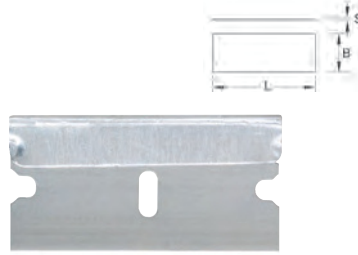


	Length mm	Width mm	g	g
907.2240	110,0	39,0	911.8127	90

Replacement scraper blades

- For all standard scrapers
- SK steel
- In a carton

Application range: for the removal of labels on bumpers, front windscreens, etc.



Content	L mm	B mm	S mm	g	
911.8127	5	40,0	19,5	0,29	40

Replacement plastic scraper blades

- For all standard scrapers
- Particularly gentle on materials, since no scratches can be made
- Dual-sided adjustment
- Plastic
- In a carton

Application range: for the removal of labels on bumpers, front windscreens, etc.



	Content	L mm	B mm	S mm	g
911.8128	10 pcs	40,0	18,5	1,10	2

Pinch weld scraper set

- Ideal for removing of stickers, seal and glue residues
- Simple blade change by loosening the knurled thumb screw on the chuck
- With 10 straight scraper blades 16 mm
- Scraper with two component handle



	Content	g
907.2215	11 pcs Pinch weld scraper set	100

consists of:

	Content	g
907.2201	Dual component scraper handle with chuck holder for blades	60
907.2203	Replacement blades 16 mm wide/straight, 10 pcs.	20

Knife scraper set

- Ideal for removing of stickers, seal and glue residues
- Simple blade change by loosening the knurled thumb screw on the chuck
- Practical storage system for changeable blades
- Suitable for many different application due to the wide range of blades
- Scraper with two component handle
- Professional universal knife with aluminium housing
- In durable plastic case



	Content	g
907.2200	27 pcs Knife scraper set	600

consists of:

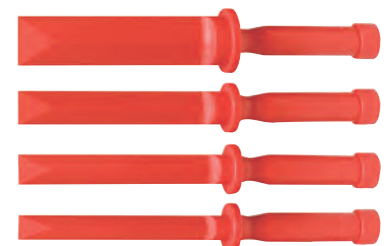
	Content	g
907.2170	Professional universal knife solid	90
907.2201	Dual component scraper handle with chuck holder for blades	60
907.2202	Replacement blades 12 mm wide/straight, 10 pcs.	20
907.2203	Replacement blades 16 mm wide/straight, 10 pcs.	20
907.2204	Replacement blades 16 mm wide/angled 53°, 10 pcs.	20
907.2205	Replacement blades 20 mm wide/straight, 10 pcs.	40
907.2206	Trapezoid blades, holder with 10 blades	60

Replacement blades:

	Width mm	Form	Content	g
907.2202	12,0	straight	10	20
907.2204	16,0	53° angled	10	20
907.2203	16,0	straight	10	20
907.2205	20,0	straight	10	40

Glassfib e chisel set

- For paint preserving removal of ornament and window strips
- Flexible chisel blade
- Impact cap for light impacts
- Ergonomic handle
- Special plastic



	Content	g
911.8130	4 pcs 19 - 22 - 26 - 38 mm	570

consists of:

	Content	g
911.8131	Glassfib e chisel, 19 mm	130
911.8132	Glassfib e chisel, 22 mm	140
911.8133	Glassfib e chisel, 26 mm	150
911.8134	Glassfib e chisel, 38 mm	180

Glasslib e chisel

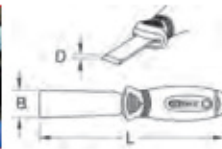
- For paint preserving removal of ornament and window strips and wheel weights on aluminium rims
- Flexible chisel blade
- Impact cap for light impacts
- Ergonomic handle
- Special plastic



	A mm	W
911.8131	19.0	130
911.8132	22.0	140
911.8133	26.0	150
911.8134	38.0	180

STAINLESS STEEL Chisel scraper

- Ideal for removing stickers, seal and glue residues
- Also suitable for the removal and chiselling of plates or welding spots
- Heavy, continuous stainless steel blade that can be re-sharpened
- With reinforcement eyelet
- With hammer cap on the handle
- With ergonomic moulded two component handle
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	B mm	D mm	L mm	W
907.2211	32.0	1.2	190.0	160
907.2213	25.0	1.2	165.0	100
907.2212	32.0	2.5	190.0	160
907.2214	25.0	2.5	165.0	110

STAINLESS STEEL Chisel scraper set

- Ideal for removing stickers, seal and glue residues
- Also suitable for the removal and chiselling of plates or welding spots
- Heavy, continuous stainless steel blade that can be re-sharpened
- With reinforcement eyelet
- With hammer cap on the handle
- With ergonomic moulded two component handle
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid-resistant
- Stainless steel



	W
907.2210	4 pcs 32 x 1,2; 32 x 2,5; 25 x 1,2; 25 x 2,5 mm

Pinch weld scraper

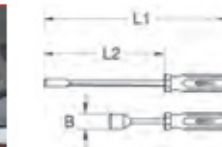
- Ideal for removing stickers, seal and glue residues
- With interchangeable spring steel blade
- Working length max. 115 mm
- Aluminium handle



	B mm	L mm	W
140.2282	13.0	240.0	140.2283 200
140.2286	16.0	240.0	140.2287 200
140.2288	19.0	240.0	140.2289 200

Gasket scraper

- Ideal for removing stickers, seal and glue residues
- Blades can be re-sharpened
- Blade 10° angled
- Extra-long design for hard to reach areas
- Also for removing extremely stubborn impurities and seal residue
- With ergonomic moulded one component handle



	B mm	L1 mm	L2 mm	W
907.2231	12.5	200.0	100.0	120
907.2232	25.0	200.0	100.0	140
907.2233	12.5	300.0	200.0	180
907.2234	25.0	300.0	200.0	200

Gasket scraper set

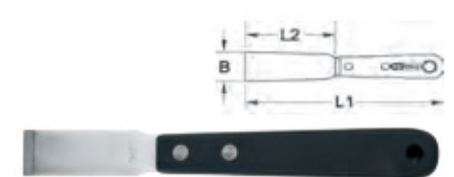
- Ideal for removing stickers, seal and glue residues
- Blades can be re-sharpened
- Blade 10° angled
- Extra-long design for hard to reach areas
- Also for removing extremely stubborn impurities and seal residue
- With ergonomic moulded one component handle



	W
907.2230	4 pcs 12,5 x 200; 25 x 200; 12,5 x 300; 25 x 300 mm

Chisel scraper

- Ideal for removing stickers, seal and glue residues
- Also for removing extremely stubborn impurities and seal residue
- Blade 10° angled
- Blades can be re-sharpened
- Rust-proof and acid-resistant
- Wooden handle



	B mm	L1 mm	L2 mm	W
907.2266	15.0	175.0	50.0	42
907.2267	20.0	185.0	60.0	50
907.2268	30.0	190.0	65.0	57

Chisel scraper set

- Ideal for removing stickers, seal and glue residues
- Also for removing extremely stubborn impurities and seal residue
- Blade 10° angled
- Blades can be re-sharpened
- Rust-proof and acid-resistant
- Wooden handle



	W
907.2270	3 pcs Chisel scraper set

consists of:

	W
907.2266	Chisel scraper, 15 x 175 mm
907.2267	Chisel scraper, 20 x 185 mm
907.2268	Chisel scraper, 30 x 190 mm

NOZZLE CARTRIDGE PLIERS

Cartridge tip pliers

- Ideally suited to cut the ejection nozzle of cartridges or bags as required
- With toothed cutting blade made from solid steel
- With safety locking device
- Allows for the required V cut for windscreen seals and therefore optimised adhesive trim
- Easy to use
- With PVC dipped handle
- Chrome vanadium



	A mm	L mm	S mm	W
140.2220	33.0	210.0	20.0	420

HAND PISTOL CARTRIDGES

Hand gun for double cartridges

- For 2 component adhesives
- For gluing front windscreens as well as most rear and side windows
- Also suitable for double cartridge systems with epoxy hardeners
- Exact dosing
- Cornered cartridge seating
- Robust metal design



	L mm	H mm	Weight kg
980.1080	300.0	170.0	500

Hand cartridge gun 310 ml

- For working with cartridges and soft packs
- Quick and easy cartridge changes
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive, etc.
- Plastic housing
- Robust end parts



	L mm	H mm	Replacement nozzle	Weight kg
980.1000	340.0	210.0	980.1001	750

Hand cartridge gun 600 ml

- For working with cartridges and soft packs
- Quick and easy cartridge changes
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive, etc.
- Plastic housing
- Robust end parts



	L mm	H mm	Replacement nozzle	Weight kg
980.3000	480.0	210.0	980.1001	1.10

Rodless cartridge gun 310 ml

- No protruding push rod and therefore very suitable for confined working environments
- For working with cartridges
- Quick and easy cartridge changes
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive, etc.
- Centralised grip for optimal load distribution
- With integrated steel spring band
- Includes level indicator display
- With belt connector
- Metal cartridge holder
- Plastic handle



	L mm	H mm	Weight kg
980.3050	340.0	200.0	825

BATTERY CARTRIDGE PISTOL

Cordless cartridge gun 310 ml

- Handy and ergonomic dual component housing
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive, etc.
- Drip-free mechanism
- Step-free controllable feed
- Carbon brushes interchangeable
- Lithium-ion high performance rechargeable battery
- Throughput per battery at ~ 20°C up to 15 cartridges
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic switch-off charge station
- Blow mould plastic housing
- In durable plastic storage case



Technical data:

Capacity:	10,8 V
Capacity of the unit:	310 ml
Propulsion without load:	6,1 mm / sec
Output pressure:	392 kgf
Charging time:	1 hour
Rechargeable battery:	10,8 V - 1,5 Ah

	L mm	B mm	H mm	Spine carbon brushes set	Battery pack	Number of Charge stations	Weight kg
515.3569	410.0	138.0	245.0	515.3595	515.3592	0	3.60
515.3570	410.0	138.0	245.0	515.3595	515.3592	1	4.50
515.3571	410.0	138.0	245.0	515.3595	515.3592	2	4.70

Cordless cartridge gun 400 ml

- Handy and ergonomic dual component housing
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Drip-free mechanism
- Step-free controllable feed
- Carbon brushes interchangeable
- Lithium-ion high performance rechargeable battery
- Throughput per battery at ~ 20°C up to 15 cartridges
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic switch-off charge station
- Blow mould plastic housing
- In durable plastic storage case



Technical data:

Capacity:	10,8 V
Capacity of the unit:	400 ml
Propulsion without load:	6,1 mm / sec
Output pressure:	392 kgf
Charging time:	1 hour
Rechargeable battery:	10,8 V - 1,5 Ah

	L mm	B mm	H mm	Spine carbon brushes set	Battery pack	Number of Charge stations	Weight kg
515.3574	450.0	138.0	245.0	515.3595	515.3592	0	3.70
515.3575	450.0	138.0	245.0	515.3595	515.3592	1	4.60
515.3576	450.0	138.0	245.0	515.3595	515.3592	2	4.80

Cordless cartridge gun 600 ml

- Handy and ergonomic dual component housing
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive, etc.
- Drip-free mechanism
- Step-free controllable feed
- Carbon brushes interchangeable
- Lithium-ion high performance rechargeable battery
- Throughput per battery at ~ 20°C up to 15 cartridges
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic switch-off charge station
- Blow mould plastic housing
- In durable plastic storage case



Technical data:

Capacity:	10,8 V
Capacity of the unit:	600 ml
Propulsion without load:	6,1 mm / sec
Output pressure:	392 kgf
Charging time:	1 hour
Rechargeable battery:	10,8 V - 1,5 Ah

	L mm	B mm	H mm	Spine carbon brushes set	Battery pack	Number of Charge stations	Weight kg
515.3579	560.0	138.0	245.0	515.3595	515.3592	0	4.10
515.3580	560.0	138.0	245.0	515.3595	515.3592	1	5.10
515.3581	560.0	138.0	245.0	515.3595	515.3592	2	5.20

PRESSURISED AIR PISTOL CARTRIDGES

Pneumatic cartridge pistols 310 ml

- For working with cartridges and soft packs
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive, etc.
- Perfect run in the cartridge cylinder with the telescopic principle and therefore no cylinder tipping or air intake
- Drip-free mechanism
- Step-free controllable feed
- With two adapters for cartridges and bags
- With safety pressure release valve
- Includes pneumatic regulator for discharge speed
- Handy and ergonomic dual component housing
- Aluminium housing
- Plastic handle



Technical data:

Compressive force:	90 kg
Operating pressure:	max. 6,3 kg/cm ² (90psi)
Max. fl. w rate:	40 l/min
Noise pressure level:	70 dbA
Connection thread:	1/4"PT

	L mm	H mm	Replacement nozzle	
515.1975	400.0	200.0	515.1976	1.00

Pneumatic cartridge pistols 600 ml

- For working with cartridges and soft packs
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Perfect run in the cartridge cylinder with the telescopic principle and therefore no cylinder tipping or air intake
- Drip-free mechanism
- Step-free controllable feed
- With two adapters for cartridges and bags
- With safety pressure release valve
- Includes pneumatic regulator for discharge speed
- Handy and ergonomic dual component housing
- Aluminium housing
- Plastic handle



Technical data:

Compressive force:	90 kg
Operating pressure:	max. 6,3 kg/cm ² (90psi)
Max. fl. w rate:	40 l/min
Noise pressure level:	70 dbA
Connection thread:	1/4"PT

	L mm	H mm	Replacement nozzle	
515.1985	620.0	200.0	515.1976	1.30

ASSEMBLY SPATULA

Plastic assembly spatula fl./round

- Universal usage
- For careful assembly and disassembly
- For lifting and adjusting rubber seals
- Optimal removal of glue residue
- Special plastic



	L mm	B mm	
911.8116	200.0	17.0	20

Plastic assembly spatula round/round

- Universal usage
- For careful assembly and disassembly
- For lifting and adjusting rubber seals
- Optimal removal of glue residue
- Special plastic

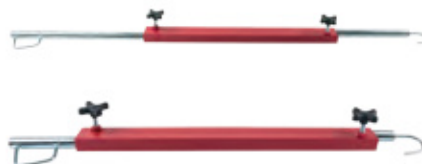


	L mm	B mm	
911.8117	200.0	17.0	20

AID

Engine compartment and tail gate supports

- Ideal for working on the engine compartment or tail gate, e.g. when replacing the dampers
- Tail gate can be locked into any position required
- Fully adjustable
- With practical fastening mechanism
- Special steel



	Length mm	
140.2199	650 - 1500	1.80



Pannel gap gauge set

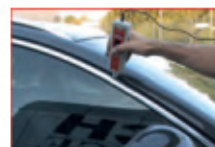
- For adjusting and inserting car windscreens and body parts
- Adjustments on the body with revolving, ball bearing mounted construction
- The gap size gauge can be adjusted 3 dimensionally and can be positioned problem-free according to the required demands
- The 10 distance plates allow for a precise setting of the gap size
- Original size can be decreased with gauge beforehand by an undamaged side
- No damage or scratches on recently painted parts
- With reinforcement screw
- Plastic



	L mm	B mm	H mm		
150.1570	3 pcs	110	20.0	45.0	100

Ultrasound leak detector

- Acoustic locating of leaks on bodywork
- Receiver is passed externally along the bodywork
- Simplifies cause investigation for wind noise and water leaks
- In a practical storage case

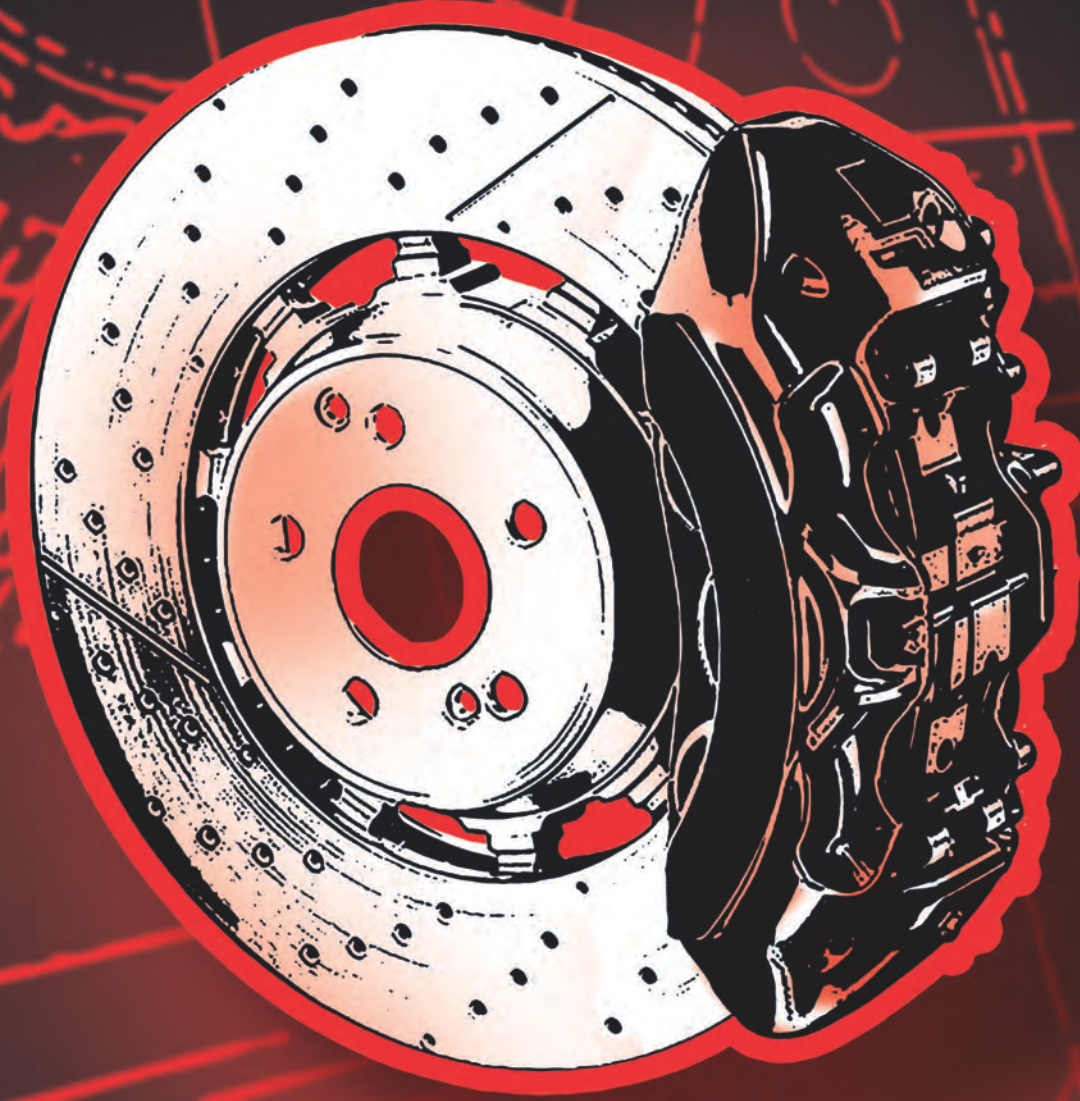


150.1690	Ultrasound leak detector	460

KSTOOLS APP



BRAKE SERVICE



Innovation is
our mission!



	PAGE
BRAKE PISTON RESET TOOL	576 - 579
BRAKE SENSOR CLEANING TOOL	579 - 580
BRAKE CALLIPER TOOL	580 - 582
COTTER PIN DRIVES	582 - 584
BRAKE SPRING TOOL	584 - 585
BRAKE PIPE TESTER	585
BRAKE SPRING PLIERS	585 - 586
BRAKE PEDAL LOCKING DEVICE	586
BRAKE CALLIPER CLEANING	586 - 587
WHEEL HUB CLEANING	587 - 589
BRAKE DISC SCRAPER	589
ASSEMBLY SLEEVES	590
PIPE STOPPER	590
BRAKE PIPE CUTTER	590
BRAKE PIPE DEBURRER	590
BRAKE PIPE BENDING TOOL	591
BRAKE PIPE FLARING TOOL	591 - 592
BRAKE CALLIPER REPAIR TOOL	592
BRAKE FLUID TESTER	592
BRAKE BLEED WRENCHES	592 - 594
BRAKE BLEEDER	594 - 596
BRAKE MAINTENANCE TOOL	596 - 597
BRAKE MEASURING TOOL	597 - 599

BRAKE PISTON RESET TOOL

Universal brake piston resetting dice

- Universal usage: suitable for almost all common vehicles
- Ideally suited to pulling back the brake piston on the braking system with hand brake securer
- Internal square drive to DIN 3120/ISO 1174
- Special steel



	Length mm	Width mm	Height mm	Weight kg
150.2222	95.0	33.0	170.0	90



Brake piston resetting tool, small

- Universal usage: suitable for almost all common vehicle types without integrated hand brake securing device
- Ideally suited to damage-free resetting of the brake disc piston
- Lower force output due to spindle operation
- Allows for a central resetting of the brake piston without tilting
- No damage to sleeves, pistons of piston holes in the brake caliper
- Removes misuse of other tools
- Whilst carrying out maintenance work and when changing the brake pads it is necessary to push the brake pistons back into the brake caliper
- Ideally suited to floating callipers with a single piston and fixed callipers with two pistons
- High stability and closing tightness thanks to the hardened plates and guide bolts
- High precision guarantees an easy and durable use
- Special steel



	Min open width mm	Max open width mm	Height mm	Length mm	Weight kg
150.2056	13.0	80.0	110.0	135.0	0.96

Brake piston resetting tool, large

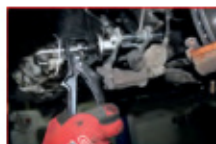
- Universal usage: suitable for almost all common vehicle types without integrated hand brake securing device
- Ideally suited to damage-free resetting of the brake disc piston
- Lower force output due to spindle operation
- Allows for a central resetting of the brake piston without tilting
- No damage to sleeves, pistons of piston holes in the brake caliper
- Removes misuse of other tools
- Whilst carrying out maintenance work and when changing the brake pads it is necessary to push the brake pistons back into the brake caliper
- Ideally suited to floating callipers with a single piston and fixed callipers with four pistons
- High stability and closing tightness thanks to the hardened plates and guide bolts
- High precision guarantees an easy and durable use
- Special steel



	Min open width mm	Max open width mm	Height mm	Length mm	Weight kg
150.2057	13.0	100.0	115.0	200.0	1.50

Brake piston re-setter gun

- Universal usage: suitable for almost all common vehicle types without integrated hand brake securing device
- Ideally suited to damage-free resetting of the brake disc piston
- Lower force output with one-hand operation
- Rotatable 360°
- Allows for a central resetting of the brake piston without tilting
- No damage to sleeves, pistons of piston holes in the brake caliper
- Removes misuse of other tools
- Whilst carrying out maintenance work and when changing the brake pads it is necessary to push the brake pistons back into the brake caliper
- Ideally suited to floating callipers with a single piston and fixed callipers with two pistons
- High stability and closing tightness thanks to the hardened plates and guide bolts
- High precision guarantees an easy and durable use
- Special steel



	Min open width mm	Max open width mm	Height mm	Length mm	Weight kg
150.2193	27.0	75.0	220.0	260.0	1.35

Ratchet brake piston re-setter, reversible

- Universal usage: suitable for almost all common vehicle types without integrated hand brake securing device
- Ideally suited to damage-free resetting of the brake disc piston
- Lower force output due to spindle operation with reversible ratchet mechanism
- Allows for a central resetting of the brake piston without tilting
- No damage to sleeves, pistons of piston holes in the brake caliper
- Removes misuse of other tools
- Whilst carrying out maintenance work and when changing the brake pads it is necessary to push the brake pistons back into the brake caliper
- Ideally suited to floating callipers and fixed callipers: adjustable to brake caliper shape and number of pistons
- High stability and closing tightness thanks to the hardened plates
- High precision guarantees an easy and durable use
- With PVC dipped handle
- Special steel



	Length mm	Operation range mm	Weight kg
150.2194	280.0	40.0 - 68.0	830

Left-turning spindle for brake piston adapter

- With left handed thread
- Complementary for brake pistons, pressure and turning device adapters
- With universal pin adapter
- Without retaining plates
- Special steel



	L mm	Weight kg
150.2036	155.0	360

Right-turning spindle for brake piston adapter

- With right handed thread
- Complementary for brake pistons, pressure and turning device adapters
- With universal pin adapter
- Without retaining plates
- Special steel



	L mm	Weight kg
150.2001	155.0	360

2 in 1 right and left-turning spindle for brake piston adapter

- By reinserting with left or right thread
- Complementary for brake pistons, pressure and turning device adapters
- With universal square attachment
- With retaining plate
- Special steel



		Length mm	
150.1966	3 pcs	155.0	650

consists of:

150.1964	2 in 1 right and left-turning spindle with t-handle	410
150.2064	Counter plate #11, Ø 90 mm	91
150.2007	3/8" brake piston tool adapter with magnet	60

Universal brake piston re-setter tool set

- With individually adjustable 2-pin universal brake piston adapter
- Ideally suited to pulling pack (pulling or pushing) the brake piston on floating brake calliper systems with or without hand brake securing devices
- With 2-way spindle via reinserting with left and right thread
- Lower force output due to spindle operation
- Allows for a central resetting of the brake piston without tilting
- No damage to sleeves, pistons of piston holes in the brake calliper
- Removes misuse of other tools
- Whilst carrying out maintenance work and when changing the brake pads it is necessary to push the brake pistons back into the brake calliper
- Spindle with universal square attachment
- Includes universal pin adapter
- Insert made from high quality foam



150.1965	4 pcs Universal brake piston re-setter tool set	800

consists of:

150.1964	2 in 1 right and left-turning spindle with t-handle	410
150.2064	Counter plate #11, Ø 90 mm	91
150.2007	3/8" brake piston tool adapter with magnet	60
150.1967	Universal adapter, adjustable with 2 pins	100

Pneumatic spindle for brake piston adaptor

- Ideally suited to damage-free resetting of the brake piston
- Right and left-turning
- The turning direction is set by the user via the angle piece at the end of the spindle
- Automatic balancing of different thread slopes with the continuous spindle
- Comfortable and fast working through pneumatic spindle
- With universal pin adapter with magnetic spindle adapter plate
- Optimal grip due to rubber coated control lever
- Allows for a central resetting of the brake piston without tilting
- No damage to sleeves, pistons of piston holes in the brake calliper
- Removes misuse of other tools
- Whilst carrying out maintenance work and when changing the brake pads it is necessary to push the brake pistons back into the brake calliper
- Aluminium housing
- Special steel spindle
- Includes 1/4" coupling connector



		L mm	3/8" Emerson square adapter	
150.2039		260.0	150.2041	2.85

Universal brake piston re-setter tool set with pneumatic spindle

- With individually adjustable 2-pin and 3-pin universal brake piston adapter
- Ideally suited to damage-free resetting of the brake piston
- Right and left-turning
- The turning direction is set by the user via the angle piece at the end of the spindle
- Automatic balancing of different thread slopes with the continuous spindle
- Comfortable and fast working through pneumatic spindle
- With universal pin adapter with magnetic spindle adapter plate
- Optimal grip due to rubber coated control lever
- Allows for a central resetting of the brake piston without tilting
- No damage to sleeves, pistons of piston holes in the brake calliper
- Removes misuse of other tools
- Whilst carrying out maintenance work and when changing the brake pads it is necessary to push the brake pistons back into the brake calliper
- Aluminium housing
- Special steel spindle
- Includes 1/4" coupling connector



150.1925	3 pcs Universal brake piston re-setter tool set with pneumatic spindle	3.13

consists of:

150.2039	Pneumatic spindle for brake piston adapter, 260 mm	2850
150.1926	Universal 2-pin adapter	117
150.1927	Universal 3-pin adapter	161

Brake piston re-setter tool set

- Clockwise
- For the winding back of the brake piston
- Adaptor plates with nosings for borings in the brake piston
- Numerical adaptor plates enable good allocation
- Magnetic spindle drive plate
- Includes stepped adaptor plate for front axles
- Can be used on the front and rear making the work easy
- Fine sandblasted surface
- Special steel
- In durable plastic storage case

Application range:

- 0 - General Motors
- 2 - Citroen XM, Xantia, etc.
- 3 - Alfa Romeo, Audi, Austin, BMW, Ford, Honda, Jaguar
- 4 - Alfa Romeo 164 2.0, Ford, Mazda, Saab 9000, Subaru
- 5 - Adaptor with 3/8" square drive
- 6 - Nissan Primera, Volkswagen Golf IV
- 7 - Audi 80/90/100/V8, Ford Sierra ABS + Scorpio after 85, Honda Prelude, Nissan Silvia 1.8 Turbo, Rover
- 8 - General Motors
- 9 - General Motors
- G - Opel Astra
- Z - Renault
- M - Ford
- N - Saab Honda



150.2015	15 pcs Brake piston re-setter tool set	2.00

consists of:

150.2001	Clockwise spindle, 155mm	360
150.2002	Piston windback adaptor#0, Ø 63mm	105
150.2003	Brake piston adaptor tool 1	180
150.2004	Brake piston tool adaptor 2, Ø 51mm	40
150.2005	Brake piston tool adaptor 3, Ø 54mm	45
150.2006	Brake piston tool adaptor 4, Ø 32mm	60
150.2007	Brake piston tool adaptor 5, Ø 35mm	60
150.2008	Brake piston tool adaptor 6, Ø 42mm	68
150.2009	Brake piston tool adaptor 7, Ø 42mm	84
150.2010	Piston windback adaptor#8, Ø 47mm	46
150.2011	Piston windback adaptor#9, Ø 54mm	46
150.2013	Brake piston adaptor tool G, Ø 30mm	84
150.2016	Brake piston adaptor tool M, Ø 32mm	60
150.2017	Piston windback adaptor#4, Ø 32mm	60
150.2012	Piston windback adaptor#Z, Ø 30mm	80

Brake piston re-setter tool set

- Clockwise and anticlockwise
- For the winding back of the brake piston
- Adaptor plates with nosings for borings in the brake piston
- Numerical adaptor plates enable good allocation
- Magnetic spindle drive plate
- Includes stepped adaptor plate for front axles
- Can be used on the front and rear making the work easy
- Fine sandblasted surface
- Special steel
- In durable plastic storage case

Application range:

- 0 - General Motors
- 2 - Citroën XM, Xantia, etc.
- 3 - Alfa Romeo, Audi, Austin, BMW, Ford, Honda, Jaguar, Mercedes Benz, Mitsubishi, Nissan, Rover, Toyota, Volkswagen
- 4 - Alfa Romeo 164 2.0, Ford, Mazda, Saab 9000, Subaru
- 5 - Adaptor with 3/8" square drive
- 6 - Nissan Primera, Volkswagen Golf IV
- 7 - Audi 80/90/100/V8, Ford Sierra ABS + Scorpio after 85, Honda Prelude, Nissan, Silvia 1.8 Turbo, Rover 8000, Saab 9000, Subaru L+Z, Volkswagen Golf + Passat
- 8 - General Motors
- 9 - General Motors
- G - Opel Astra
- Z - Renault
- M - Ford
- N - Saab Honda
- K - Citroën
- E - Nissan Maxima



Brake piston re-setter tool set with pneumatic spindle

- Right and left-turning
- Ideally suited to damage-free resetting of the brake piston
- The turning direction is set by the user via the angle piece at the end of the spindle
- Automatic balancing of different thread slopes with the continuous spindle
- Comfortable and fast working through pneumatic spindle
- Adapter plates with carriers for borings in the brake piston
- Numerical adapter plates enable good allocation
- With universal pin adapter with magnetic spindle adapter plate
- Priority usage on disk braking rear axles
- Sandblasted surface
- Special steel
- In durable plastic storage case

Application range:

- 0 - General Motors
- 2 - Citroën XM, Xantia, among others.
- 3 - Alfa Romeo, Audi, Austin, BMW, Ford, Honda, Jaguar, Mercedes, Mitsubishi, Nissan, Rover, Toyota, Volkswagen
- 4 - Alfa Romeo 164 2.0, Ford, Mazda, Saab 9000, Subaru
- 5 - Adapter wit 3/8" internal square
- 6 - Nissan Primera, Volkswagen Golf IV
- 7 - Audi, Ford, Honda Prelude, Nissan Silvia 1.8 Turbo, Rover 8000, Saab 9000, Subaru L+Z, Volkswagen Golf + Passat
- 8 - General Motors
- 9 - General Motors
- G - Opel Astra
- Z - Renault
- M - Ford
- N - Saab Honda
- K - Citroën
- E - Nissan Maxima
- K1 - Citroën
- K2 - Citroën / Renault



Brake piston re-setter tool set

- Right and left-turning
- Ideally suited to pulling back the brake piston
- Adapter plates with carriers for borings in the brake piston
- Numerical adapter plates enable good allocation
- Magnetic spindle attachment plate
- Includes stepped adapter plate for front axles
- Priority usage on disk braking rear axles
- Sandblasted surface
- Special steel
- In durable plastic storage case

Application range:

- 0 - General Motors
- 1 - Retaining plate closed angled
- 2 - Citroën XM, Xantia, among others.
- 3 - Alfa Romeo, Audi, Austin, BMW, Ford, Honda, Jaguar, Mercedes, Mitsubishi, Nissan, Rover, Toyota, Volkswagen
- 4 - Alfa Romeo 164 2.0, Ford, Mazda, Saab 9000, Subaru
- 5 - Adapter wit 3/4" internal square
- 6 - Nissan Primera, Volkswagen Golf IV
- 7 - Audi 80/90/100/V8, Ford Sierra ABS + Scorpio from 85, Honda Prelude, Nissan, Silvia 1.8 Turbo, Rover 8000, Saab 9000, Subaru L+Z, Volkswagen Golf + Passat
- G - Opel Astra
- 12 - Retaining plate open cornered
- M - Ford
- E - Nissan Maxima
- B - Ford USA; Lincoln Continental; Subaru
- K1 - Citroën
- K2 - Audi A8, S8 (from 99-)
- C - Nissan Primera; Opel Vectra (from 02-); Toyota Avensis
- D - Citroën BX (from 83), BX 16V (from 88-)
- F - Peugeot 206 (from 03)
- J - Alfa Romeo; Audi; Citroën; Fiat; Ford; Honda; Jaguar; Lancia; Nissan; Peugeot; Renault; Rover; Saab; Seat; Subaru; Volkswagen
- X - Alfa Romeo 164 2.0 Twin Spark, 2.0 Turbo, 3.0 V6; Audi 200; Ford Mondeo 2.0 Ghia; Lancia Thamaalte
- P - Citroën C3
- Q - Alfa Romeo 164 2.0; Fiat Uno, Turbo ie-Barchetta; Ford Escort MK, Orion; Honda; Rover; Subaru
- 11 - Retaining plate open angled
- R - Ford Australia; Mazda 323 Gti, GTX, 929, RX7, 626 16V, 626 GT, 929 V6; Mitsubishi Galant GL Si; Toyota Celicia, Corolla GT, MR2
- S - Audi 100; BMW 740i (from 91); Lancia Delta 1.9TD; Proton 416; Renault Laguna, Safrane; Rover 623 Si; Volkswagen Golf Gti Mk, Passat VR6, Vento GT
- T - Rover 220 C Turbo (from 95)
- V - Rover 216 Gti 16V, 820 Si 2.0 (from 93), 825 SD 2.5 (from 93)
- A - Nissan Primera 2.0 Bluebird; Opel Astra C, Zafí a; Toyota
- Z - BMW Mini



150.2035	18 pcs	Brake piston re-setter tool set	2.10
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consists of:


150.2001	Clockwise spindle, 155mm	360
150.2036	Anti-clockwise spindle, 155mm	360
150.2002	Piston windback adaptor#0, Ø 63mm	105
150.2003	Brake piston adaptor tool 1	180
150.2004	Brake piston tool adaptor 2, Ø 51mm	40
150.2005	Brake piston tool adaptor 3, Ø 54mm	45
150.2006	Brake piston tool adaptor 4, Ø 32mm	60
150.2007	Brake piston tool adaptor 5, Ø 35mm	60
150.2008	Brake piston tool adaptor 6, Ø 42mm	68
150.2009	Brake piston tool adaptor 7, Ø 42mm	84
150.2010	Piston windback adaptor#8, Ø 47mm	46
150.2011	Piston windback adaptor#9, Ø 54mm	46
150.2019	Brake piston adaptor tool E	60
150.2013	Brake piston adaptor tool G, Ø 30mm	84
150.2018	Piston windback adaptor#K	60
150.2016	Brake piston adaptor tool M, Ø 32mm	60
150.2017	Piston windback adaptor#4, Ø 32mm	60
150.2012	Piston windback adaptor#Z, Ø 30mm	80

150.2000	18 pcs	Brake piston re-setter tool set with pneumatic spindle	3.35
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150.2039	Pneumatic brake piston windback tool	2850
150.2002	Piston windback adaptor#0, Ø 63mm	105
150.2004	Brake piston tool adaptor 2, Ø 51mm	40
150.2005	Brake piston tool adaptor 3, Ø 54mm	45
150.2006	Brake piston tool adaptor 4, Ø 32mm	60
150.2007	Brake piston tool adaptor 5, Ø 35mm	60
150.2008	Brake piston tool adaptor 6, Ø 42mm	68
150.2009	Brake piston tool adaptor 7, Ø 42mm	84
150.2010	Piston windback adaptor#8, Ø 47mm	46
150.2011	Piston windback adaptor#9, Ø 54mm	46
150.2012	Piston windback adaptor#Z, Ø 30mm	80
150.2013	Brake piston adaptor tool G, Ø 30mm	84
150.2016	Brake piston adaptor tool M, Ø 32mm	60
150.2017	Piston windback adaptor#4, Ø 32mm	60
150.2018	Piston windback adaptor#K	60
150.2019	Brake piston adaptor tool E	60
150.2037	Brake piston adaptor tool K1, Ø 54mm	60
150.2038	Brake piston adaptor tool K2, Ø 45mm	50

150.2030	30 pcs	Brake piston re-setter tool set	3.30
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150.2001	Clockwise spindle, 155mm	360
150.2036	Anti-clockwise spindle, 155mm	360
150.2064	Counter plate 11, Ø 90mm	91
150.2014	Counter plate 12, Ø 80mm	110
150.2003	Brake piston adaptor tool 1	180
150.2004	Brake piston tool adaptor 2, Ø 51mm	40
150.2005	Brake piston tool adaptor 3, Ø 54mm	45
150.2006	Brake piston tool adaptor 4, Ø 32mm	60
150.2007	Brake piston tool adaptor 5, Ø 35mm	60

		
150.2008	Brake piston tool adaptor 6, Ø 42mm	68
150.2009	Brake piston tool adaptor 7, Ø 42mm	84
150.2074	Brake piston adaptor tool A, Ø 42mm	80
150.2034	Brake piston adaptor tool B, Ø 38mm	70
150.2048	Brake piston adaptor tool C, Ø 38mm	40
150.2051	Brake piston adaptor tool D, Ø 52mm	200
150.2019	Brake piston adaptor tool E	60
150.2013	Brake piston adaptor tool G, Ø 30mm	84
150.2052	Brake piston adaptor tool F, Ø 35mm	90
150.2053	Brake piston adaptor tool J, Ø 42mm	80
150.2037	Brake piston adaptor tool K1, Ø 54mm	60
150.2038	Brake piston adaptor tool K2, Ø 45mm	50
150.2016	Brake piston adaptor tool M, Ø 32mm	60
150.2059	Brake piston adaptor tool P, Ø 52mm	70
150.2062	Brake piston adaptor tool Q, Ø 30mm	40
150.2069	Brake piston adaptor tool R, Ø 35mm	50
150.2071	Brake piston adaptor tool S, Ø 40mm	50
150.2072	Brake piston adaptor tool T, Ø 25mm	60
150.2073	Brake piston adaptor tool V, Ø 40mm	90
150.2054	Piston windback adaptor #X, Ø 30mm	50
150.2099	Brake piston adaptor tool Z, Ø 28mm	40




Brake piston re-setter tool set


- Right and left-turning
- Ideally suited to pulling back the brake piston
- Adapter plates with carriers for borings in the brake piston
- Numerical adapter plates enable good allocation
- Magnetic spindle attachment plate
- Includes adapter attachment for 3/8" ratchet
- Includes stepped adapter plate for front axles
- Priority usage on disk braking rear axles
- Suitable for Bendix, Girling and Smart braking systems
- With 3 interchangeable retaining plates, 2 of which are open, for use with very worn brake pads or tight spaces; with the plates it is possible to construct together in the brake calliper
- Sandblasted surface
- Special steel
- In durable plastic storage case


Application range:

- 0 - General Motors
- 1 - Retaining plate closed angled
- 2 - Citroën XM, Xantia, among others.
- 3 - Alfa Romeo, Audi, Austin, BMW, Ford, Honda, Jaguar, Mercedes, Mitsubishi, Nissan, Rover, Toyota, Volkswagen
- 4 - Alfa Romeo 164 2.0, Ford, Mazda, Saab 9000, Subaru
- 5 - Adapter wit 3/4" internal square
- 6 - Nissan Primera, Volkswagen Golf IV
- 7 - Audi 80/90/100/V8, Ford Sierra ABS + Scorpio from 85, Honda Prelude, Nissan, Silvia 1.8 Turbo, Rover 8000, Saab 9000, Subaru L+Z, Volkswagen Golf + Passat
- 8 - General Motors
- 9 - General Motors
- 11 - Retaining plate open angled
- 12 - Retaining plate open cornered
- A - Nissan Primera 2.0 Bluebird; Opel Astra C, Zafí a; Toyota
- B - Ford USA; Lincoln Continental; Subaru
- C - Nissan Primera; Opel Vectra (from 02-); Toyota Avensis
- D - Citroën BX (from 83), BX 16V (from 88-)
- E - Nissan Maxima
- F - Peugeot 206 (from 03)
- G - Opel Astra
- J - Alfa Romeo; Audi; Citroën; Fiat; Ford; Honda; Jaguar; Lancia; Nissan; Peugeot; Renault; Rover; Saab; Seat; Subaru; Volkswagen
- K - Citroën C5
- K1 - Citroën C5
- K2 - Audi A8, S8 (from 99-)
- M - Nissan Primera (from 03-)
- N - Alfa Romeo 164 2.0 Twin Spark; Audi 200, Ford Mondeo; Lancia Themaalte; Volkswagen Golf GTI (from 83-87), Scirocco 16V (from 84)
- P - Citroën C3
- Q - Alfa Romeo 164 2.0; Fiat Uno, Turbo ie-Barchetta; Ford Escort MK, Orion; Honda; Rover; Subaru
- R - Ford Australia; Mazda 323 Gti, GTX, 929, RX7, 626 16V, 626 GT, 929 V6; Mitsubishi Galant GL Si; Toyota Celicia, Corolla GT, MR2
- S - Audi 100; BMW 740i (from 91); Lancia Delta 1.9TD; Proton 416; Renault Laguna, Safrane; Rover 623 Si; Volkswagen Golf Gti Mk, Passat VR6, Vento GT
- T - Rover 220 C Turbo (from 95)
- V - Rover 216 Gti 16V, 820 Si 2.0 (from 93), 825 SD 2.5 (from 93)
- IV - Iveco
- Z - BMW Mini



		
150.1970	41 pcs Brake piston re-setter tool set	5.10

		
150.2001	Clockwise spindle, 155mm	360
150.2036	Anti-clockwise spindle, 155mm	360
150.2064	Counter plate 11, Ø 90mm	91
150.2014	Counter plate 12, Ø 80mm	110
150.1974	Brake piston adaptor tool 0-disc	65
150.1973	Brake piston adaptor tool 0	114
150.2003	Brake piston adaptor tool 1	180
150.2004	Brake piston tool adaptor 2, Ø 51mm	40
150.2005	Brake piston tool adaptor 3, Ø 54mm	45
150.2006	Brake piston tool adaptor 4, Ø 32mm	60


		
150.2007	Brake piston tool adaptor 5, Ø 35mm	60
150.2008	Brake piston tool adaptor 6, Ø 42mm	68
150.2009	Brake piston tool adaptor 7, Ø 42mm	84
150.1971	Brake piston adaptor tool 8	62
150.1972	Brake piston adaptor tool 9	81
150.2074	Brake piston adaptor tool A, Ø 42mm	80
150.2034	Brake piston adaptor tool B, Ø 38mm	70
150.2048	Brake piston adaptor tool C, Ø 38mm	40
150.2051	Brake piston adaptor tool D, Ø 52mm	200
150.2019	Brake piston adaptor tool E	60
150.2052	Brake piston adaptor tool F, Ø 35mm	90
150.2013	Brake piston adaptor tool G, Ø 30mm	84
150.1978	Brake piston tool adapter #H6	145
150.9494	Hexagon socket angled screwdriver 7,0 mm	100
150.2053	Brake piston adaptor tool J, Ø 42mm	80
150.1975	Brake piston adaptor tool K	82
150.2037	Brake piston adaptor tool K1, Ø 54mm	60
150.2038	Brake piston adaptor tool K2, Ø 45mm	50
150.2016	Brake piston adaptor tool M, Ø 32mm	60
150.1976	Brake piston adaptor tool N	30
150.2059	Brake piston adaptor tool P, Ø 52mm	70
150.1988	Brake piston tool adapter #P3.0	70
150.1989	Brake piston tool adapter #P5.5	68
150.2062	Brake piston adaptor tool Q, Ø 30mm	40
150.2069	Brake piston adaptor tool R, Ø 35mm	50
150.2071	Brake piston adaptor tool S, Ø 40mm	50
150.2072	Brake piston adaptor tool T, Ø 25mm	60
150.2073	Brake piston adaptor tool V, Ø 40mm	90
150.2099	Brake piston adaptor tool Z, Ø 28mm	40
150.2042	Brake piston adaptor tool f.IVECO	50
150.1993	Thread oil from kit 150.1970	105

BRAKE SENSOR CLEANING TOOL

Reamer for ABS sensor with bendable ratchet

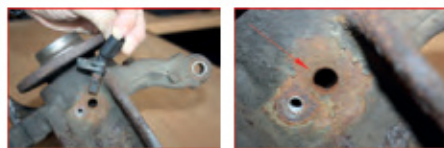
- Suitable for cleaning all guide holes of the ABS sensor in the wheel bearing casing from rust, dirt and corrossions, etc.
- No damage to the new sensor due to improper insertion or pressing in, etc.
- Ensures exact measurement values due to clean and correct positioning of the new sensor
- With integrated, bendable, fin ly toothed special wrench turning to the right is only possible
- Special steel



	Ø mm	Reamer height mm	Total depth mm	Length mm	
150.1981	10,0	20,0	154,0	150,0	218
150.1985	15,0	23,0	33,0	150,0	180
150.1986	18,0	23,0	33,0	150,0	190
150.1987	18,0	34,0	44,0	150,0	205

Reamer set for ABS sensor with bendable ratchet

- Suitable for cleaning all guide holes of the ABS sensor in the wheel bearing casing from rust, dirt and corrossions, etc.
- No damage to the new sensor due to improper insertion or pressing in, etc.
- Ensures exact measurement values due to clean and correct positioning of the new sensor
- With integrated, bendable, finely toothed special wrench turning to the right is only possible
- Special steel



Part No.	Quantity	Description	Weight (kg)
150.1980	2 pcs	Reamer set for ABS sensor with bendable ratchet	415

Part No.	Description	Weight (kg)
150.1981	Reaming ratchet, 10mm	218
150.1984	Special drill with roll-pin, 8mm, L=180mm	64

ABS sensor reamer set

- Suitable for cleaning all guide holes of the ABS sensor in the wheel bearing casing from rust, dirt and corrossions, etc.
- No damage to the new sensor due to improper insertion or pressing in, etc.
- Ensures exact measurement values due to clean and correct positioning of the new sensor
- With the integrated, bendable, finely -toothed special ratchet with quick change function only turning to the right is possible
- Included special borer M10 x 133 mm for boring out corroded and therefore securely fitting sensors
- With various reamers
- Special steel
- In durable plastic storage case



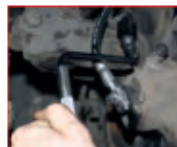
Part No.	Quantity	Description	Weight (kg)
150.2480	7 pcs	ABS sensor reamer set	1.51

Part No.	Vehicle for	Ø (mm)	Length (mm)	Weight (kg)
150.2481	VW Golf V, Polo 9N, Lupo, Passat, T5, Skoda Fabia, Seat Ibiza, Opel Insignia	10	29.2	84
150.2482	BMW E38, E39, E52, E60, E61, E63, E64, E65, E66, E67, E70, E71	14	32.0	27
150.2483	Mercedes A class, Mazda, Ford, Daewoo	15	23.0	22
150.2484	Audi, VW, BMW E36 + E46, Seat, Skoda	18	23.0	33
150.2485	Audi, VW, Seat, Skoda, NFZ	18	34.0	54
150.2486	Borer for boring ABS sensors	10	133.0	50
150.2487	1/4" special joint reamer	-	120.0	142

BRAKE CALLIPER TOOL

Internal square angled pin wrench for brake callipers

- Ideal for the assembly and disassembly of brake callipers
- Universally suited to many vehicle types
- Long design
- Phosphate
- Special steel
- With ribbed aluminium handle

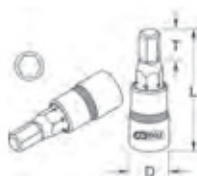


Part No.	Ø (mm)	L1 (mm)	L2 (mm)	Weight (kg)
150.1978	6.0	117.0	226.0	145
150.1979	7.0	117.0	226.0	155

Bit socket for internal hexagon screws on the brake calliper

- Hexagon socket
- Ideal for the assembly and disassembly of brake callipers
- Internal square in accordance with DIN 3120 / ISO 1174
- Short design
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Renault Laguna rear axle

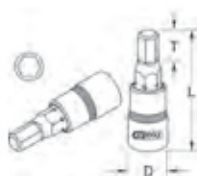


Part No.	Ø (mm)	D (mm)	L (mm)	T (mm)	Weight (kg)
911.3926	7.0	29.0	38.0	11.0	40

Bit socket for internal hexagon screws on the brake calliper

- Hexagon socket
- Ideal for the assembly and disassembly of brake callipers
- Internal square in accordance with DIN 3120 / ISO 1174
- Extra slim design
- Short design
- For manual operation
- Matt finish
- Chrome vanadium

Application range: for releasing and tightening the hard-to-reach brake calliper screws on Mercedes with SBC braking systems, e.g. E class, SL, CLS etc. when changing the brake pads

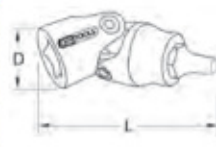
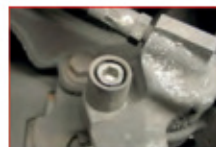


Part No.	Ø (mm)	D (mm)	L (mm)	T (mm)	Weight (kg)
911.3928	7.0	20.0	43.0	13.0	40

Bit socket with joint for internal hexagon screws on the brake calliper

- Hexagon socket
- Ideal for the assembly and disassembly of brake callipers
- Internal square to DIN 3120/ISO 1174 with ball reception
- Screwed joints
- For manual operation
- Matt finish
- Chrome vanadium

Application range: BMW 3 series, BMW 5 series, BMW 8 series, Opel



Part No.	Ø (mm)	D (mm)	L (mm)	Weight (kg)
911.3904	7.0	19.0	61.0	37

Bit socket for internal hexagon screws on the brake calliper

- Hexagon socket
- Extra-long execution
- Ideal for the assembly and disassembly of brake callipers
- In accordance with DIN 7422
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- With press fit nickel-plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Volkswagen, Audi, etc.



Part No.	Ø (mm)	D (mm)	L (mm)	T (mm)	Weight (kg)
911.5327	7.0	22.0	170.0	10.0	140

Bit socket for internal hexagon screws on the brake calliper

- Hexagon socket
- Ideal for the assembly and disassembly of brake callipers
- Internal square in accordance with DIN 3120 / ISO 1174
- Short design
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Mercedes ML (W166)

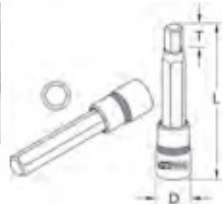


Part No.	Ø (mm)	D (mm)	L (mm)	T (mm)	Weight (kg)
911.3927	11.0	22.0	55.0	14.0	90

Bit socket for internal hexagon screws on the brake calliper

- Hexagon socket
- Ideal for the assembly and disassembly of brake callipers
- In accordance with DIN 7422
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Long design
- With pressed nickel-plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Audi, BMW, Peugeot, Seat, Ford, Renault, Mercedes, Volkswagen, Volvo, etc.



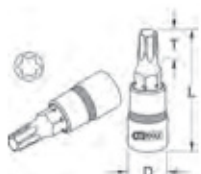
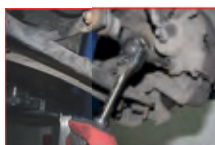
	mm	D mm	L mm	T mm	g
911.1326	5,0	22,0	110,0	72,0	120
911.1327	7,0	22,0	110,0	72,0	120
911.1328	8,0	22,0	110,0	72,0	120
911.1329	9,0	22,0	110,0	72,0	120



Bit socket for TX screws on the brake calliper

- TX
- Ideal for the assembly and disassembly of brake callipers
- Internal square in accordance with DIN 3120 / ISO 1174
- Extra slim design
- Short design
- For manual operation
- Matt finish
- Chrome vanadium

Application range: for releasing and tightening the hard-to-reach brake calliper screws on Mercedes with SBC braking systems, e.g. E class, SL, CLS etc. when changing the brake pads



	D mm	L mm	T mm	g	
911.3929	T40	20,0	43,0	13,0	40

Bit socket set for internal hexagon screws on the brake calliper with bendable ratchet

- Ideally suited to the assembly and disassembly of guide bolts in narrow spaces around the brake calliper
- Ideally suited to the guide bolts on fixed callipers
- Universal usage with all common sizes
- Allows for safe and comfortable working
- Chrome vanadium



		g
918.3500	5 pcs Bit socket set for internal hexagon screws on the brake calliper with bendable ratchet	250

consists of:

		g
918.3501	Internal square socket wrench insert, 6 mm	25
918.3502	Internal square socket wrench insert, 7 mm	29
918.3503	Internal square socket wrench insert, 8 mm	33
918.3504	Internal square socket wrench insert, 9 mm	35
918.3507	Joint reset ratchet, 13.0 mm	81

Bit socket for internal hexagon screws on the brake calliper

- Hexagon socket
- Ideal for the assembly and disassembly of brake callipers
- Internal square drive to DIN 3120/ISO 1174
- Short design
- For manual operation
- Phosphate
- Chrome vanadium

Application range: Mercedes W204 (C class)

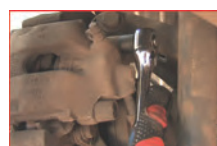


	mm	D mm	L mm	T mm	g
150.2227	7	20,0	25,0	6,0	30

Bit socket for internal hexagon screws on the brake calliper

- Hexagon socket
- Ideal for the assembly and disassembly of brake callipers
- Internal square drive to DIN 3120/ISO 1174
- Short design
- For manual operation
- Phosphate
- Chrome vanadium

Application range: Audi TT (>2007), Audi A4 (>2001), Audi A6 (>2005), Audi A8



	mm	D mm	L mm	T mm	g
150.2228	8	20,0	25,0	6,0	30

Bit socket for internal hexagon screws on the brake calliper

- Hexagon socket
- Ideal for the assembly and disassembly of brake callipers
- Internal square drive to DIN 3120/ISO 1174
- Short design
- For manual operation
- Phosphate
- Chrome vanadium

Application range: Mercedes W164 (M class), Mercedes W251 (R class), BMW, Volkswagen T5



	mm	D mm	L mm	T mm	g
150.2229	9	20,0	25,0	6,0	30

Bit socket set for internal square screws on the brake calliper

- Hexagon socket
- Ideal for the assembly and disassembly of brake callipers
- Internal square drive to DIN 3120/ISO 1174
- Short design
- For manual operation
- Phosphate
- Chrome vanadium



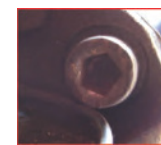
		g
150.2225	3 pcs Bit socket set for internal square screws on the brake calliper	90

	mm	Suitable for	g
150.2227	7	Mercedes W204 (C class)	30
150.2228	8	Audi TT (>2007), Audi A4 (>2001), Audi A6 (>2005), Audi A8	30
150.2229	9	Mercedes W164 (M class), W251 (R class), BMW, VW T5	30

Bit socket for pentagon screws on the brake calliper

- Internal pentagon
- Ideally suited to the disassembly of brake callipers
- Internal square to DIN 3120/ISO 1174 with ball reception
- Short design
- For manual operation
- Phosphate
- Chrome vanadium

Application range: Citroën, Peugeot, Renault, etc.



	Profile	mm	L mm	g
150.2153		10	56,0	90

Socket for pentagon screws on brake calliper

- 5-point
- Ideally suited to the disassembly of brake callipers
- Internal square to DIN 3120/ISO 1174 with ball reception
- Short design
- For manual operation
- Phosphate
- Chrome vanadium

Application range: Citroën, Peugeot, Renault, etc.



	Profile	mm	L mm	W
150.2154		14	40.0	70
150.2155		19	40.0	120

Brake calliper special socket set

- Internal pentagon
- 5-point
- Ideally suited to the disassembly of brake callipers
- Internal square to DIN 3120/ISO 1174 with ball reception
- Short design
- For manual operation
- Phosphate
- Chrome vanadium

Application range: Citroën, Peugeot, Renault, etc.



	W
150.2140	3 pcs Brake calliper special socket set 365

	W
150.2153	1/2" brake calliper bit socket internal pentagon, 10 mm 90
150.2154	1/2" brake calliper socket, pentagon, 14 mm 70
150.2155	1/2" brake calliper socket, pentagon, 19 mm 120

Socket for pentagon screws on brake callipers

- 5-point
- Ideally suited to the assembly and disassembly on brake callipers or pistons
- For the installation and removal of the guide pins, if it is rusty
- Internal square drive to DIN 3120/ISO 1174
- Long and thin design
- For manual operation
- Phosphate
- Chrome vanadium

Application range: Smart Fortwo (lower brake calliper securing screws on the front axle)/Opel Astra G, Opel Zafira (brake calliper system on rear axle)



	mm	D1 mm	D2 mm	L mm	T mm	W
151.1101	14	18.3	24.8	70.0	9.0	70

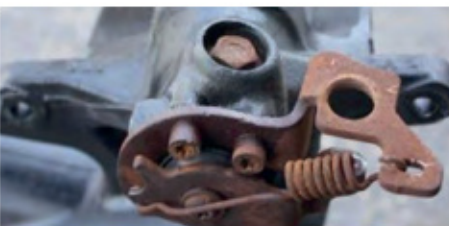
Socket for TX screws on the brake disc

- TX
- Ideally suited to the assembly and disassembly of brake disks
- Internal square drive to DIN 3121/ISO 1174
- Long design
- For manual operation
- Phosphate
- Chrome molybdenum

Application range: Ford, GM



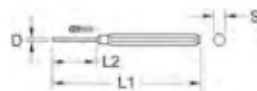
		D mm	L mm	W
515.1581	T40	22.0	52.0	130
515.1582	T45	22.0	52.0	130
515.1583	T50	22.0	52.0	130



COTTER PIN DRIVES

Pin punch

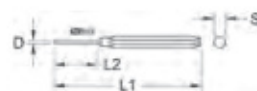
- 8 point
- Quenched and tempered
- Chrome plated and mirror polished
- Highly polished
- Chrome vanadium



	D mm	L1 mm	L2 mm	S mm	W
156.0111	2.0	115.0	30.0	8.0	40
156.0112	3.0	125.0	40.0	8.0	40
156.0113	4.0	150.0	50.0	9.5	60
156.0114	5.0	165.0	50.0	9.5	70
156.0115	6.0	180.0	55.0	12.7	140
156.0116	8.0	180.0	55.0	12.7	150

Pin punch, extra long

- 8 point
- Quenched and tempered
- chrome plated and mirror polished
- Highly polished
- Chrome vanadium



	D mm	L1 mm	L2 mm	S mm	W
156.0121	3.0	200.0	80.0	9.5	70
156.0122	4.0	200.0	85.0	9.5	70
156.0123	5.0	200.0	90.0	9.5	80
156.0124	6.0	200.0	93.0	9.5	80
156.0125	8.0	200.0	93.0	12.7	150
156.0126	10.0	200.0	93.0	12.7	170

Pin punch set

- Quenched and tempered
- Chrome plated and mirror polished
- Highly polished
- Chrome vanadium
- In plastic support bracket



	W
156.0150	6 pcs 115x2 - 125x3 - 150x4 - 165x5 - 180x6 - 180x8 mm 520

Pin punch set

- 8 point
- Quenched and tempered
- Chrome plated and mirror polished
- Highly polished
- Chrome vanadium
- In metal stand with the possibility of wall hanging



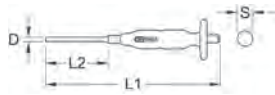
	W
156.0180	17 pcs Pin punch set 1.00

consists of:

	W
156.0111	Punch, octagonal, mirror polished, Ø 2mm 40
156.0112	Punch, octagonal, mirror polished, Ø 3mm 40
156.0113	Punch, octagonal, mirror polished, Ø 4mm 60
156.0114	Punch, octagonal, mirror polished, Ø 5mm 70
156.0115	Punch, octagonal, mirror polished, Ø 6mm 140
156.0116	Punch, octagonal, mirror polished, Ø 8mm 150
156.0121	Punch, extra long, octagonal, mirror polished, Ø 3mm 70
156.0122	Punch, extra long, octagonal, mirror polished, Ø 4mm 70
156.0123	Punch, extra long, octagonal, mirror polished, Ø 5mm 80
156.0124	Punch, extra long, octagonal, mirror polished, Ø 6mm 80
156.0125	Punch, extra long, octagonal, mirror polished, Ø 8mm 150
156.0126	Punch, extra long, octagonal, mirror polished, Ø 10mm 170
156.0130	Punch, mirror polished, Ø 2mm 60
156.0131	Punch, mirror polished, Ø 3mm 60
156.0132	Punch, mirror polished, Ø 4mm 60
156.0133	Punch, mirror polished, Ø 5mm 60
156.0134	Punch, mirror polished, Ø 6mm 60

Pin punch, cylindrical shaft

- Quenched and tempered
- Tip can be resharpened
- Highly polished
- Chrome molybdenum



	D mm	L1 mm	L2 mm	S mm	g
156.0231	3.0	150.0	50.0	8.0	52
156.0232	4.0	180.0	61.0	10.0	93
156.0233	5.0	200.0	61.0	10.0	109
156.0234	6.0	210.0	71.0	12.0	160
156.0235	8.0	220.0	85.0	12.0	172

Punch set, cylindrical shaft

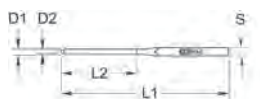
- Quenched and tempered
- Tip can be resharpened
- Highly polished
- Chrome molybdenum



	D mm	L1 mm	L2 mm	S mm	g
156.0230	5 pcs	3 - 4 - 5 - 6 - 8 mm			715

Brake pad cotter pin drive with guide tip

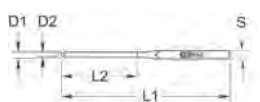
- 8-point
- Extra-long execution
- Quenched and tempered
- With guide pin for locking pins
- Suitable for locking pins on vehicles with disk brakes
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
162.0411	4.0	2.7	175.0	85.0	10.0	60
162.0412	6.0	3.8	175.0	85.0	10.0	70

Brake pad cotter pin drive with guide tip

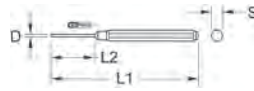
- 6-point
- Extra-long execution
- Quenched and tempered
- 150.2151 with guide pin for locking pins
- Suitable for locking pins on vehicles with disk brakes
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
150.2150	4.0	0.0	180.0	80.0	10.0	70
150.2151	5.8	3.1	175.0	80.0	10.0	70

Pin punch

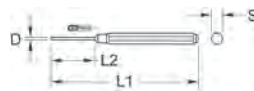
- DIN 6450 form C
- 8 point
- Tip can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	D mm	L1 mm	L2 mm	S mm	g
162.0371	2.0	150.0	35.0	10.0	60
162.0372	2.5	150.0	40.0	10.0	60
162.0373	3.0	150.0	40.0	10.0	60
162.0374	3.5	150.0	40.0	10.0	65
162.0375	4.0	150.0	50.0	10.0	65
162.0376	4.5	150.0	50.0	10.0	65
162.0377	5.0	150.0	50.0	10.0	65
162.0378	6.0	150.0	50.0	10.0	70
162.0379	7.0	150.0	55.0	10.0	95
162.0380	8.0	150.0	55.0	12.0	100
162.0381	9.0	150.0	55.0	12.0	110
162.0382	10.0	150.0	55.0	12.0	115
162.0383	12.0	150.0	55.0	16.0	170

Cotter pin drive, long

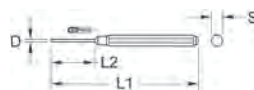
- 8 point
- Quenched and tempered
- Tip can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	D mm	L1 mm	L2 mm	S mm	g
162.0391	3.0	175.0	80.0	10.0	60
162.0392	4.0	175.0	80.0	10.0	70
162.0393	5.0	175.0	80.0	10.0	80
162.0394	6.0	175.0	80.0	10.0	90
162.0395	8.0	175.0	80.0	12.0	140
162.0396	10.0	175.0	80.0	12.0	150

Pin punch, extra long

- 8 point
- Quenched and tempered
- Tip can be resharpened
- Shaft with gold coated lacquer
- Chrome molybdenum



	D mm	L1 mm	L2 mm	S mm	g
162.0401	2.0	200.0	40.0	10.0	82
162.0402	3.0	200.0	50.0	10.0	90
162.0403	4.0	200.0	55.0	10.0	92
162.0404	5.0	200.0	55.0	10.0	96
162.0405	6.0	200.0	55.0	12.0	100
162.0406	8.0	200.0	55.0	12.0	150
162.0407	10.0	200.0	55.0	12.0	165

Pin punch set

- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum
- In a plastic bag



	D mm	L1 mm	L2 mm	S mm	g
162.2122	6 pcs	150x10x3 - 150x10x4 - 150x10x5 - 150x10x6 - 150x12x8 - 150x12x10 mm			470

Pin punch set

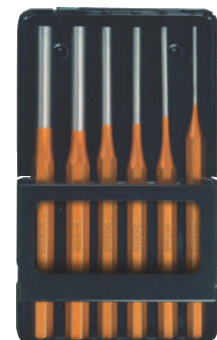
- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome vanadium
- In a plastic holder



	D mm	L1 mm	L2 mm	S mm	g
162.2123	6 pcs	150x10x3 - 150x10x4 - 150x10x5 - 150x10x6 - 150x12x8 - 150x12x10 mm			470

Pin punch set

- Quenched and tempered
- Tip can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum
- In metal storage box



	D mm	L1 mm	L2 mm	S mm	g
162.0370	6 pcs	150x10x3 - 150x10x4 - 150x10x5 - 150x10x6 - 150x12x8 - 150x12x10mm			750

Cotter pin drive with guide sleeve

- Guide sleeve, coded
- Ø 0.9 to 4.9 mm with loose guide sleeve
- Ø 5.9 mm with fixed sleeve
- Highly polished
- Chrome vanadium



	D mm	L mm	S mm	U
162.2249	0.9	70.0	5.0	15
162.2250	1.4	80.0	6.0	21
162.2251	1.8	83.0	6.0	21
162.2252	2.4	92.0	7.0	30
162.2253	2.8	94.0	7.0	30
162.2254	3.4	100.0	8.0	35
162.2255	3.9	100.0	8.0	35
162.2256	4.9	110.0	10.0	45
162.2257	5.9	115.0	12.0	68

Cotter pin drive set with guide sleeve

- Guide sleeve, coded
- Ø 0.9 to 4.9 mm with loose guide sleeve
- Ø 5.9 mm with fixed sleeve
- Highly polished
- Chrome vanadium
- In a plastic bag



	D pcs	70x0,9 - 80x1,4 - 83x1,8 - 92x2,4 - 94x2,8 - 100x3,4 - 100x3,9 - 115x5,9 mm	U
162.2310	8 pcs		240

Pin punches with hand grip

- Round
- Quenched and tempered
- With two component handle
- Tip can be re-sharpened
- Tip polished, shaft burnished
- Chrome vanadium



	D mm	L1 mm	L2 mm	S mm	U
156.0211	2.0	150.0	30.0	10.0	100
156.0212	3.0	150.0	40.0	10.0	100
156.0213	4.0	150.0	55.0	10.0	100
156.0214	5.0	150.0	60.0	10.0	100
156.0215	6.0	150.0	60.0	10.0	100
156.0216	7.0	150.0	60.0	12.0	110
156.0217	8.0	150.0	60.0	12.0	110
156.0218	9.0	150.0	60.0	12.0	110
156.0219	10.0	150.0	60.0	12.0	130

Pin punch set with hand protection grip

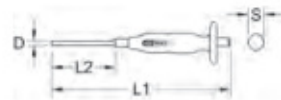
- Round
- Quenched and tempered
- With two component handle
- Tip can be re-sharpened
- Tip polished, shaft burnished
- Chrome vanadium



	D pcs	3 - 4 - 5 - 6 - 8 mm	U
156.0220	5 pcs		800

Pin punch with hand protection grip

- Round
- Quenched and tempered
- Tip can be re-sharpened
- Burnished
- Chrome vanadium



	D mm	L1 mm	L2 mm	S mm	U
156.0002	3.0	130.0	30.0	8.0	50
156.0003	3.0	145.0	40.0	8.0	60
156.0004	4.0	180.0	50.0	8.0	100
156.0005	5.0	180.0	60.0	10.0	100
156.0006	6.0	205.0	80.0	10.0	130
156.0008	8.0	225.0	85.0	12.0	150
156.0010	10.0	225.0	90.0	12.0	200

Pin punches with hand grip

- Round
- Quenched and tempered
- Tip can be re-sharpened
- Burnished
- Chrome vanadium



	D mm	L1 mm	L2 mm	S mm	U
156.0026	6.0	270.0	110.0	10.0	130
156.0028	8.0	300.0	130.0	12.0	220
156.0030	10.0	300.0	140.0	12.0	250
156.0032	12.0	300.0	140.0	14.0	340
156.0034	14.0	300.0	140.0	16.0	450

Pin punch set with hand protection grip

- With wall mounting possibility
- Tip can be resharpended
- Quenched and tempered
- Burnished
- Chrome vanadium
- In metal stand



	D pcs	145x3 - 180x4 - 180x5 - 205x6 - 225x8 mm	U
156.0000	5 pcs		650

Pin punch set with hand protection grip

- Quenched and tempered
- Tip can be resharpended
- Burnished
- Chrome vanadium
- In metal stand with the possibility of wall hanging



	D pcs	270x6 - 300x8 - 300x10 - 300x12 - 300x14 mm	U
156.0020	5 pcs		2.70

BRAKE SPRING TOOL

Brake spring clip tool

- Ideally suited to the assembly and disassembly of brake springs on drum brakes
- With secure clamping screw
- The return spring is placed into the hook head and tightened by turning the handle
- It is hung by turning the spring into the correct position
- With two component handle

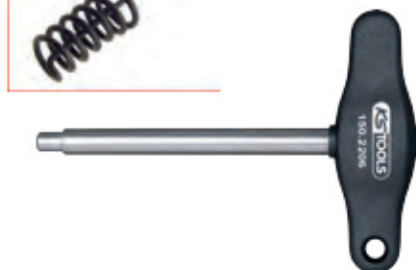


	Length mm	U
150.2218	220.0	70

Hand brake retention clip tool

- Ideal for the assembly and disassembly of the retaining clip on the hand brake jaws of the disk brake
- Guide slots in the function area
- Used for cylindrical and conical retaining clips
- With suspension hole
- 1 piece handle

Application range: Mercedes parking brakes



Length mm	Weight kg
150.2206	145.0
	115

Brake spring clip tool

- Ideal for disassembling the retaining clamp
- Press guide slots into the provided notch
- Then turn the handle by 90° in order to release the clamp from the nail
- With two component handle

Application range: European vehicles with brake jaw retaining clamps



Length mm	Weight kg
150.2207	190.0
	133

Brake spring clip tool

- Ideal for the assembly and disassembly of brake jaw retaining clips on drum brakes
- Quick, easy and correct assembly and disassembly of the spring clip
- With suspension hole
- With two component handle



Ø mm	Length mm	Weight kg
150.2212	13.0 - 22.0	175.0
		130

Brake spring clip tool

- Ideal for the assembly and disassembly of brake jaw retaining clips on drum brakes
- Quick, easy and correct assembly and disassembly of the spring clip
- With suspension hole
- With two component handle



Ø mm	Length mm	Weight kg
150.2213	12.0 - 16.0	160.0
		130

Brake clip tool

- Ideal for the assembly and disassembly of brake jaw retaining springs on drum brakes
- Quick, easy and correct assembly and disassembly of the retaining spring
- Angled
- Special steel
- With T-handle



Height mm	Length mm	Weight kg
150.2208	80.0	155.0
		50

BRAKE PIPE TESTER

Brake pipe cleaning tool

- Quick and easy to check brake pipes
- With two scraper surfaces for the removal of dirt and corrosion
- Easy manual operation when testing the brake pipes without risk of damage
- A level and angled edge allow it to reach all installation points
- The shaped point allow it to remove crusted dirt quickly and to clean the surfaces of the pipes
- Also suitable for detecting hidden corrosion in the brake pipes
- Special plastic

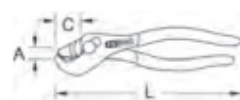


Length mm	Weight kg
150.2209	165.0
	12

BRAKE SPRING PLIERS

Special pipe wrench

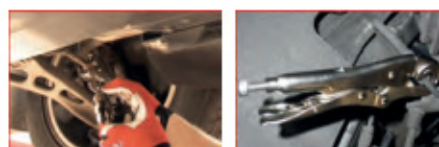
- 2-stage adjustment
- PVC dipped handle
- Ideal for round turned pipe fittings
- Polished surface
- Chrome vanadium



	A mm	L mm	C mm	Weight kg
115.1361	0-16	178.0	23.0	180

Round jaw locking pliers with wire cutter

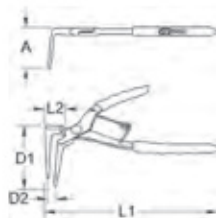
- For safe gripping of nuts and screw heads
- 3 level points prevents slipping and rounding
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- Good adaptation to existing surfaces
- With wire cutting function
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	mm	L mm	Weight kg
115.1175	11-19	175.0	370
115.1176	16-27	220.0	700

Long arm circlip pliers for external circlips, angled

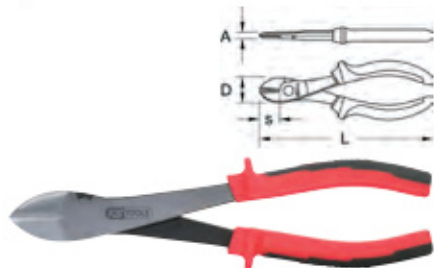
- Durable, extra long precision points
- 90° angled tips
- Self opening
- PVC dipped handle
- Ideal for brake calliper and transmission work
- Chrome vanadium



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	Weight kg
500.1037	63.0	18.0	4.0	185.0	18.0	190

ERGOTORQUE® High leverage side cutter

- In accordance to DIN ISO 5749
- Long cutting edge
- Suitable for various types of wire
- Induction hardened precision cutting
- Extremely robust execution
- Dual component handle
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	Weight
115.1025	13.0	32.0	260.0	31.0	390

Car brake spring pliers

- For attaching and dismantling the brake shoes retaining spring
- For glued and riveted brake shoes
- Special surround
- Chrome vanadium



	A mm	L mm	Weight
150.2211	130.0	325.0	335

Car brake spring pliers

- For attaching and dismantling the brake blocks retaining spring
- For glued and riveted brake shoes
- With special surround
- With moveable wheel clamp
- Chrome vanadium



	A mm	L mm	Weight
150.2116	130	220.0	340

Brake block retaining clip pliers

- Ideally suited to the assembly of spring clamps on drum brakes
- For both brake block retaining spring designs
- Special steel
- Aluminium handle
- Special jaws for pre-tensioning the brake block retaining clip

Application range: Mercedes A class(A140), Citroën, Renault, Peugeot with Lucas drum brakes



	Length mm	Weight
150.2214	220.0	220

Brake spring pliers

- Ideally suited to the assembly and disassembly of hand brake cables on drum brakes
- With holding lever for safe working
- With PVC dipped handle
- Chrome vanadium

Application range: Volkswagen, Audi, BMW, Citroën, Nissan, Peugeot, Renault, Rover, Seat, etc.



	L mm	Weight
150.2118	225.0	175

BRAKE PEDAL LOCKING DEVICE

Brake pedal locking device

- Ideally suited to setting the brake pedal in the desired position
- For obstructing the seat or the steering wheel
- Allows for a constant brake pressure over a long time thanks to internal springs
- Ideally used when testing the tightness on hydraulic braking systems, testing and adjusting brake force regulators or brake force limiters
- Easy and correct use
- Robust design

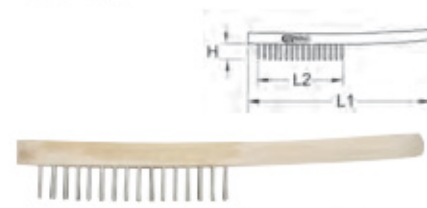


	Length mm	Weight
150.2216	460-660	1.80

BRAKE CALLIPER CLEANING

Steel hand wire brush 3 rowed

- 3 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With steel bristles



	H mm	L1 mm	L2 mm	Weight
201.2305	32.0	290.0	138.0	120

Steel hand wire brush 4 rowed

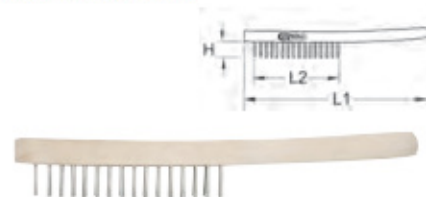
- 4 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With steel bristles



	H mm	L1 mm	L2 mm	Weight
201.2311	32.0	290.0	138.0	120

Stainless steel hand wire hand brush 3 rowed

- 3 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With stainless steel bristles



	H mm	L1 mm	L2 mm	Weight
201.2310	32.0	290.0	138.0	120

Stainless steel hand wire hand brush 4 rowed

- 4 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With stainless steel bristles



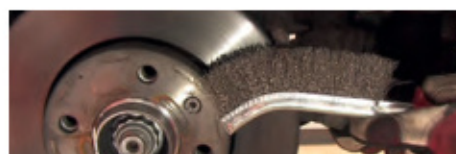
	H mm	L1 mm	L2 mm	Weight
201.2306	32.0	290.0	138.0	100

Steel wire hand brush 4 rowed

- 4 rowed
- Universal usage
- Plastic hand grip casing
- For surface preparation
- Straight steel wire

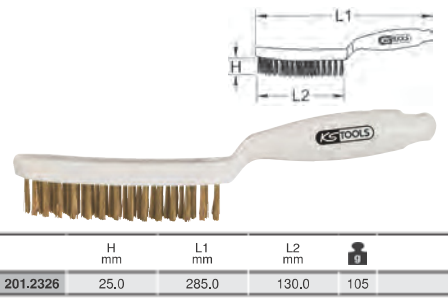


	H mm	L1 mm	L2 mm	Weight
201.2325	25.0	285.0	130.0	120



Brass wire hand brush 3 rowed

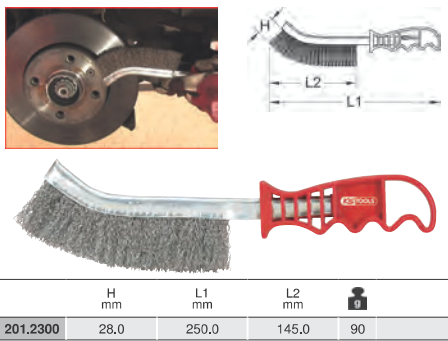
- 3 rowed
- Universal usage
- Plastic hand grip casing
- For surface preparation
- Straight brass wire



	H mm	L1 mm	L2 mm	g
201.2326	25,0	285,0	130,0	105

Steel wire all purpose wire brush

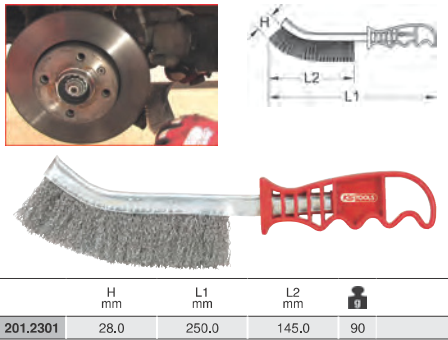
- With plastic handle
- For surface preparation
- Crimped steel wire



	H mm	L1 mm	L2 mm	g
201.2300	28,0	250,0	145,0	90

Stainless steel wire all purpose wire brush

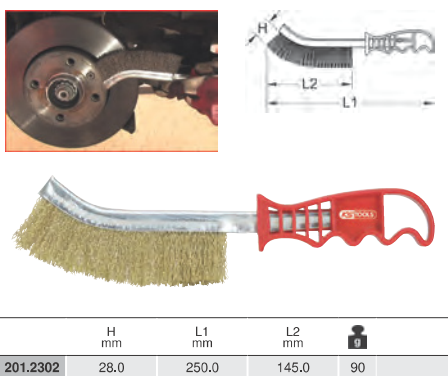
- With plastic handle
- For surface preparation
- Curled and rust free steel wire



	H mm	L1 mm	L2 mm	g
201.2301	28,0	250,0	145,0	90

Brass steel all purpose wire brush

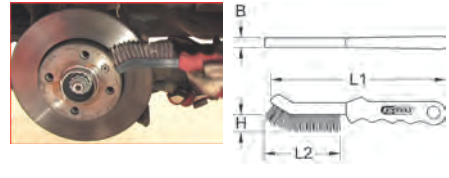
- With plastic handle
- For surface preparation
- Curved brass wire



	H mm	L1 mm	L2 mm	g
201.2302	28,0	250,0	145,0	90

Steel wire brake saddle wire brush 2 rowed, straight

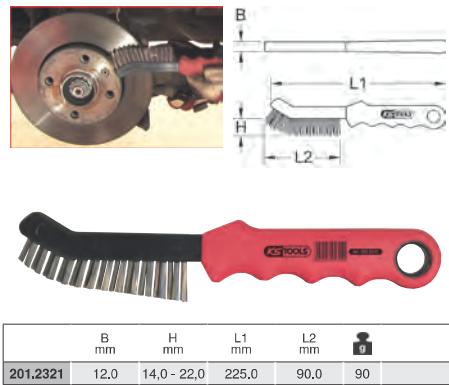
- 2 rowed
- Hanging hole
- Very narrow execution
- For narrow brake saddle shafts
- Robust stock
- Dual component handle
- For removing of stubborn brake dust
- For surface preparation
- Smooth steel wire



	B mm	H mm	L1 mm	L2 mm	g
201.2320	12,0	22,0	225,0	90,0	90

Steel wire brake saddle wire brush 2 rowed, straight and tapered point

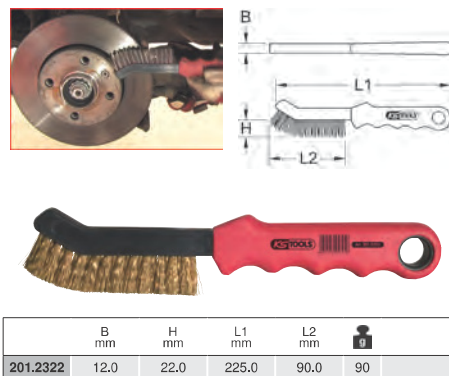
- 2 rowed
- Hanging hole
- Tapered point
- Very narrow execution
- For narrow brake saddle shafts
- Robust stock
- Dual component handle
- For removing of stubborn brake dust
- For surface preparation
- Smooth steel wire



	B mm	H mm	L1 mm	L2 mm	g
201.2321	12,0	14,0 - 22,0	225,0	90,0	90

Brass wire brake saddle wire brush 2 rowed, straight

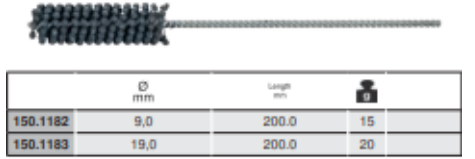
- 2 rowed
- Very narrow execution
- For narrow brake saddle shafts
- Robust stock
- Hanging hole
- Dual component handle
- For removing of stubborn brake dust
- For surface preparation
- Curved brass wire



	B mm	H mm	L1 mm	L2 mm	g
201.2322	12,0	22,0	225,0	90,0	90

Hone brush for brake calliper casing

- For corroded attachment bore holes in the brake calliper casing
- For east assembly of the new guide sleeves
- Universal usage
- Usable with hand-operated bore machine
- Only to be used clockwise and with a maximum turning speed on 500 rpm
- Special steel



	Ø mm	Length mm	g
150.1182	9,0	200,0	15
150.1183	19,0	200,0	20

WHEEL HUB CLEANING

Triangular hollow scraper

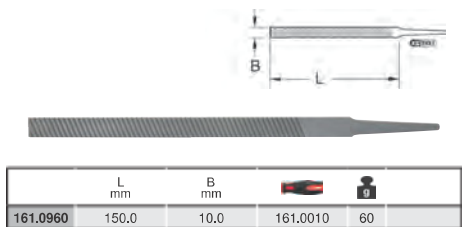
- Ideally suited to treating surfaces
- 3 cutting edges for clean deburring
- Polished working surfaces
- In accordance with DIN 8350 Shape C
- Wooden handle
- Special steel



	L1 mm	L2 mm	g
150.2241	270,0	150,0	120
150.2242	320,0	205,0	160

Brake saddle file ins t extra narrow without handle

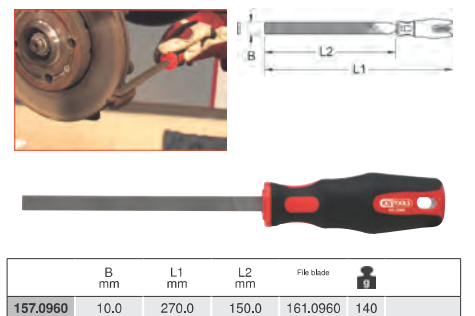
- Especially suited for Japanese vehicles
- For vehicles with disk brakes
- Beveled edges
- Extra narrow execution
- Insert unilaterally coarsely diagonally milled
- With blunt scraper on the forehead side
- For cleaning the brake saddle
- For removing of coarse residues
- Special steel



	L mm	B mm	g
161.0960	150,0	10,0	161.0010 60

Brake saddle file xtra narrow

- Especially suited for Japanese vehicles
- For vehicles with disk brakes
- With two component handle
- With hanging hole
- Extra narrow execution
- Bevelled edges
- Insert unilaterally coarsely diagonally milled
- With blunt scraper on the forehead side
- For cleaning the brake saddle
- For removing of coarse residues
- Special steel



	B mm	L1 mm	L2 mm	File blade	g
157.0960	10,0	270,0	150,0	161.0960	140

Brake saddle file without handle

- For vehicles with disk brakes
- Beveled edges
- Insert unilaterally coarsely diagonally milled
- With blunt scraper on the forehead side
- For cleaning the brake saddle
- For removing of coarse residues
- Special steel



	B mm	L mm		
161.0950	12.0	150.0	161.0010	90

Brake saddle fil

- With vehicles with disk brakes
- With two component handle
- With hanging hole
- Bevelled edges
- Insert unilaterally coarsely diagonally milled
- With blunt scraper on the forehead side
- For cleaning the brake saddle
- For removing of coarse residues
- Special steel



	B mm	L1 mm	L2 mm	File blade	
157.0950	12.0	270.0	150.0	161.0950	170

Wheel hub bolt grinder set, Ø 40 / 50 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs with stud bolts up to Ø 40 or Ø 50 mm in diameter
- Grinding disc with 10 mm pin receptacle with 3 contact surfaces
- For use with boring machines and cordless spanners (max. speed 1,500 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimum dust development due to open-pore grinding medium and cup-shaped grinding disc



100.4080	14 pcs Wheel hub bolt grinder set, Ø 40 / 50 mm 470

consists of:

100.4081	Wheel hub grinder without cleaning discs 50
100.4085	Replacement disc set for hub bolt wheel grinder, 5 pcs. 230
100.4088	Replacement disc set large for hub bolt wheel grinder, 5 pcs. 200

Wheel hub bolt grinding discs Ø 40 mm

- 5 replacement discs Ø 40 mm
- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs with stud bolts up to Ø 40 mm in diameter
- Grinding disc with 10 mm pin receptacle with 3 contact surfaces
- For use with boring machines and cordless spanners (max. speed 1,500 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium
- Delivery takes place without grinding disc



	Ø mm	
100.4085	40	230

Wheel hub bolt grinding discs Ø 50 mm

- 5 replacement discs Ø 50 mm
- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs with stud bolts up to Ø 50 mm in diameter
- Grinding disc with 10 mm pin receptacle with 3 contact surfaces
- For use with boring machines and cordless spanners (max. speed 1,500 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium
- Delivery takes place without grinding disc



	Ø mm	
100.4088	50	200



Wheel hub grinding disc set Ø 65 / 105 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideal for use with passenger cars, vans and saloon car wheel hubs
- Grinding disc with 1/2" receptacle
- For use with impact wrenches or cordless impact wrenches (max. speed 7,000 rpm)
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium



1/2"

100.4035	2 pcs Wheel hub grinding disc set Ø 65 / 105 mm 300

consists of:

100.4038	Wheel hub grinder Ø 65 mm 100
100.4039	Wheel hub grinder Ø 105 mm 200



Wheel hub grinding disc set Ø 65 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideal for use with passenger cars, vans and saloon car wheel hubs
- Grinding disc with 1/2" receptacle
- For use with impact wrenches or cordless impact wrenches (max. speed 7,000 rpm)
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium



1/2"

	Ø mm	
100.4036	5 pcs 65	575

consists of:

100.4038	5 Wheel hub grinder Ø 65 mm 100

Wheel hub grinding disc set Ø 105 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideal for use with passenger cars, vans and saloon car wheel hubs
- Grinding disc with 1/2" receptacle
- For use with impact wrenches or cordless impact wrenches (max. speed 7,000 rpm)
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium



		Ø mm	Weight
100.4037	5 pcs	105	625

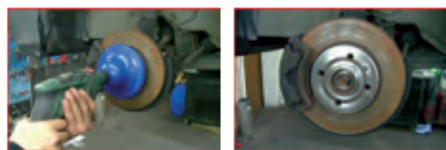
consists of:

	X	Weight
100.4039	5 Wheel hub grinder Ø 105 mm	200



Wheel hub grinder set, Ø 160 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs up to Ø 160 mm
- Optimised for the latest wheel hubs with larger inner diameter (Ø 75 mm)
- Grinding disc with 10 mm pin receptacle with 3 contact surfaces
- For use with boring machines and cordless spanners (max. speed 1,500 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 100 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimum dust development due to open-pore grinding medium and cup-shaped grinding disc



		Weight
100.4070	4 pcs Wheel hub grinder set, Ø 160 mm	800

consists of:

		Weight
100.4071	Wheel hub grinder without cleaning discs	270
100.4075	Replacement discs set for wheel hub grinder 100.4070, 3pcs.	530

Replacement discs set for wheel hub grinder

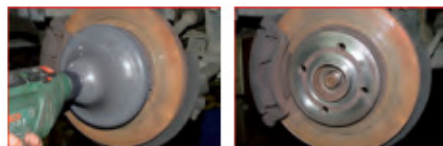
- 3 replacement discs Ø 160 mm
- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs up to Ø 160 mm
- Optimised for the latest wheel hubs with larger inner diameter (Ø 75 mm)
- For use with boring machines and cordless spanners (max. speed 1,000 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 100 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium
- Delivery takes place without grinding disc



		Ø mm	Weight
100.4075	3 pcs	160	530

Wheel hub grinder set, Ø 200 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs up to Ø 200 mm
- Grinding disc with 10 mm pin receptacle with 3 contact surfaces
- For use with boring machines and cordless spanners (max. speed 1,000 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 100 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimum dust development due to open-pore grinding medium and cup-shaped grinding disc



		Weight
100.4090	3 pcs Wheel hub grinder set, Ø 200 mm	1,01

consists of:

		Weight
100.4091	Wheel hub grinder without cleaning discs	470
100.4095	Replacement discs set for wheel hub grinder 100.4090, 2pcs.	530



Wheel hub grinding discs, Ø 200 mm

- 2 replacement discs Ø 200 mm
- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs up to Ø 200 mm
- For use with boring machines and cordless spanners (max. speed 1,000 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 100 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium
- Delivery takes place without grinding disc



		Ø mm	Weight
100.4095	2 pcs	200	530

BRAKE DISC SCRAPER

Brake disc scraper

- Ideally suited to removing rust on the external sides of the brake disk
- As well as the coating of the brake calliper
- Recommendation: Use crank 440.0335 to turn the brake disk
- Use for cleaning
- With two component handle
- With suspension hole



	Length mm	Weight
440.0330	215.0	200

Crank for brake disc

- For turning the brake disc when using the scraper 440.0330
- For removing rust from the outer edges
- Angled handle
- Special steel



	L1 mm	L2 mm	Weight
440.0335	165.0	125.0	240

ASSEMBLY SLEEVES

Brake assembly sleeve set

- For brake discs of brake drums integrated in the wheel bearing
- No tilting during assembly and disassembly
- Quick and safe working without irreparable damage
- Universal usage
- Chrome plated and mirror polished
- Chrome vanadium

Application range: universal, but particularly for PSA



700.2320	8 pcs	Brake assembly sleeve set	885

consists of:

700.2321	Assembly sleeve #1, 24/35 x 50 mm	193	
700.2322	Assembly sleeve #2, 24/30 x 50 mm	30	
700.2323	Assembly sleeve #3, 20/25 x 50 mm	93	
700.2324	Assembly sleeve #4, 22/25 x 50 mm	122	
700.2325	Assembly sleeve #5, 28/30 x 50 mm	148	
700.2326	Assembly sleeve #6, 22/30 x 50 mm	130	
700.2327	Assembly sleeve #7, 20/30 x 50 mm	38	
700.2328	Assembly sleeve #8, 20/29 x 50 mm	64	

PIPE STOPPER

ALLinONE Hose clamp pliers set

- Simple sealing of pipe lines, 4.75 mm (3/16") to 14.0 mm (9/16")
- Rotary magazine with 4 slots for the corresponding pipe size
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against ingress of moisture and dirt
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Special plastic



	Ø mm	A mm	L mm	
122.1295	2 pcs	4,75-14	38,0	149

consists of:

		X	
122.1296	2	ALLinONE Fluidstopper Ø 4,75 - 14 mm	60
122.1297	1	Replaceable plastic plugs for 122.1296 pipe stopper pliers	50

BRAKE PIPE CUTTER

Mini pipe cutter

- For copper, brass and thin walled steel tubes
- With 2 support rollers
- V/A cutter can be retrofi ted
- With hard chrome plated knurled knob
- Metal housing
- Special steel



	D mm	H mm				
101.1000	3,0 - 16,0	35,0	101.1001	101.1002	-	100
101.2000	3,0 - 22,0	40,0	101.1001	101.1002	-	120

Mini pipe cutter

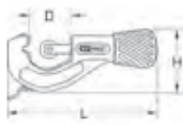
- Ergonomically designed
- For copper, brass and thin walled steel tubes
- With 2 support rollers
- With large impact head
- V/A cutter can be retrofi ted
- Metal housing
- Special steel



	D mm	H mm				
101.5000	3,0 - 28,0	55,0	101.1001	101.1002	-	260
101.5016	3,0 - 16,0	41,0	101.1001	101.1002	-	120
101.5022	3,0 - 22,0	50,0	101.1001	101.1002	-	120

Telescopic pipe cutter

- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special steel



	D mm	H mm	L mm				
103.5000	6,0 - 38,0	60,0	156,0	103.5001	-	-	500

BRAKE PIPE DEBURRER

Internal deburrer

- 3 cutting edges for clean deburring
- Cutting jaws from HSS steel
- Ensures chatter-free working
- For copper, aluminium and soft steel piping
- 2 piece handle



	Material	Ø mm	L mm	
105.3010	HSS	3,0 - 40,0	105,0	40

Internal and external deburrer

- 3 cutting edges for clean deburring
- Insertable blades made from alloy HSS steel
- Ensures chatter-free working
- For copper, aluminium and soft steel piping
- Plastic housing



	Material	Ø mm	Ø mm	L mm	
105.2000	HSS	3,0 - 42,0	6,0 - 42,0	50,0	240

Internal and external deburrer

- 3 cutting edges for clean deburring
- Cutting jaws from alloy HSS steel
- Insertable blades made from alloy HSS steel
- Retractable point for internal burring (protects from injury)
- Ensures chatter-free working
- For copper, aluminium and soft steel piping
- Aluminium housing



	Material	Ø mm	Ø mm	L mm	
105.3015	HSS	3,0 - 12,0	4,0 - 14,0	125,0	175

BRAKE PIPE BENDING TOOL

Mini brake pipe bend tool

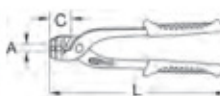
- Easy and handy to use
- For 3.00 + 4.75 + 6.00 mm brake pipes
- Bending doesn't change the diameter of the pipe
- For exact two handed bending up to 90°
- For copper, aluminium, brass and soft steel piping
- For 3 dimensions without exchange of bending segments
- Can be used directly on the vehicle
- Undersize and bend radius on the bending form
- Special steel



	Ø mm	Ø	L mm	Weight
120.1050	3,0 + 4,75 + 6,0	1/8" + 3/16" + 1/4"	140,0	150

Brake pipe bending pliers, 2 in 1

- For 4,75 and 6,00 mm brake pipes
- With plastic handle
- Ideally suitable for bending pipes directly
- For copper, aluminum, brass, mild steel and plastic coated brake pipes
- Burnished
- Special tool steel



	A mm	L mm	C mm	Weight
120.2000	0-27,5	240,0	37,0	400

Brake pipe flaring pliers

- For 4.75 + 6.00 = 8.00 + 10.00 mm brake pipes
- Bending doesn't change the diameter of the pipe
- For exact two handed bending up to 90°
- For copper, aluminium, brass and soft steel piping
- Undersize and bend radius on the bending form
- With two pivoted flaring segments
- With plastic handle
- Special steel



	Ø mm	Length mm	Weight
120.1003	4,75 + 6,0 + 8,0 + 10,0	260,0	530

BRAKE PIPE FLARING TOOL

Universal brake flaring tool set

- Metric sizes
- Easy and handy to use
- Prevents damages of the coated surfaces
- For the manufacture of convex and double flared joints
- For the universal use in vehicle workshops
- Ideally suited for brakes and hydraulic connections
- For thin walled steel, aluminium and copper conductions
- Automatic mandral return
- Fast and precise practical working
- Straight flaring
- No rotating prevents the pipe from splitting
- In durable plastic storage case



	Weight
122.1250 12 pcs Universal brake flaring tool set	4,27

consists of:

		Weight
122.1244	Universal flaring tool	3270
122.1231	Clamping jaw set, 3/16"+4,75mm	50
122.1251	Clamping jaw set, 5mm	50
122.1252	Clamping jaw set, 6mm	50
122.1236	Flaring cone, OP-0	50
122.1254	Flaring cone, 4,75-5mm, OP1, DIN	50
122.1255	Flaring cone, 4,75mm, OP1, SAE	50
122.1256	Flaring cone, 5mm, OP1	50
122.1257	Flaring cone, 6mm, OP1, SAE with thread	50
122.1258	Flaring cone, 4,75-5-6mm, OP2	50
122.1259	Flaring cone, 6mm, OP1, DIN	50
122.1245	Flaring cone holder	250

Universal brake flaring tool set

- Imperial sizes
- Easy and handy to use
- Prevents damages of the coated surfaces
- For the manufacture of convex and double flared joints
- For the universal use in vehicle workshops
- Ideally suited for brakes and hydraulic connections
- For thin walled steel, aluminium and copper conductions
- Automatic mandral return
- Fast and precise practical working
- Straight flaring
- No rotating prevents the pipe from splitting
- In durable plastic storage case



	Weight
122.1230 14 pcs Universal brake flaring tool set	4,27

consists of:

		Weight
122.1244	Universal flaring tool	3270
122.1231	Clamping jaw set, 3/16"+4,75mm	50
122.1232	Clamping jaw set, 1/4"	50
122.1233	Clamping jaw set, 5/16"	50
122.1234	Clamping jaw set, 3/8"	50
122.1236	Flaring cone, OP-0	50
122.1237	Flaring cone, 4,75mm, OP1, DIN	50
122.1238	Flaring cone, 3/16", OP1	50
122.1239	Flaring cone, 1/4", OP1	50
122.1240	Flaring cone, 3/16"+1/4", OP2	50
122.1241	Flaring cone, 5/16", OP1	50
122.1242	Flaring cone, 3/8", OP1	50
122.1243	Flaring cone, 5/16"+3/8", OP2	50
122.1245	Flaring cone holder	250

FLAREFIX 1 universal brake pipe flaring tool set with hydraulic spindle

- Easy and handy to use
- With hydraulic pressure spindle
- Enables use directly on the vehicle
- Prevents damages of the coated surfaces
- For the universal use in vehicle workshops
- Ideally suited to the use at brake connections and/or hydraulic connections
- For thin walled steel-, Aluminium and copper conductions
- For the manufacture of convex and double flared joints
- Fast and precise work results through straight flaring tool action
- No rotating prevents the pipe from splitting
- Including cutter, bender and pipe deburring tool for professional flaring
- In durable plastic storage case



	Weight
122.1290 16 pcs FLAREFIX 1 universal brake pipe flaring tool set with hydraulic spindle	3,13

consists of:

		Weight
101.1000	Mini pipe cutter, 3-16mm	100
105.3010	REAMER FOR 122.1290	40
120.1050	3in1 mini bender, Ø 3+4,75+6mm	150
122.1271	Locking screw, M12x1,25	50
122.1272	FLAREFIX base body	625
122.1273	Die set, 4,75mm, 3/16"	50
122.1274	Die set, 5mm	50
122.1275	Die set, 6mm	50
122.1276	FLAREFIX punch, 4,75+5mm	50
122.1277	FLAREFIX punch, 6mm	50
122.1278	FLAREFIX punch, 4,75+5mm	50
122.1279	FLAREFIX punch, 4,75+5mm	50
122.1280	FLAREFIX punch, 6mm	20
122.1281	FLAREFIX hydraulic ram	500
122.1282	FLAREFIX hand grip with screw	150
122.1283	FLAREFIX Locking bolt for hydraulic spindle	82

FLAREFIX 2 universal brake pipe flaring tool set with hydraulic spindle

- Easy and handy to use
- With hydraulic pressure spindle
- Enables use directly on the vehicle
- Prevents damages of the coated surfaces
- For the universal use in vehicle workshops
- Ideally suited to the use at brake connections and/or hydraulics connections
- For thin walled steel-, Aluminium and copper conductions
- For the manufacture of convex and double flared joints
- Fast and precise work results through straight flaring tool action
- No rotating prevents the pipe from splitting
- In durable plastic storage case



consists of:			
122.1260	11 pcs	FLAREFIX 2 universal brake pipe flaring tool set with hydraulic spindle	3.19

consists of:

consists of:			
122.1264	Flared arbor, 4,75 - 5,0mm SAE	50	
122.1265	Flared arbor, 6,0mm SAE	50	
122.1266	Flared arbor, 4,75, 5,0 und 6,0mm, 90° SAE	50	
122.1267	Flared arbor, 4,75, 5,0 mm DIN	50	
122.1268	Flared arbor, 6,0 mm DIN	50	
122.1269	Locking screw, M12x1,25	50	
122.1273	Die set, 4,75mm, 3/16"	50	
122.1274	Die set, 5mm	50	
122.1275	Die set, 6mm	50	
122.1285	Hydraulic spindle 122.1260	790	
122.1286	Basic unit 122.1260	720	

BRAKE CALLIPER REPAIR TOOL

Thread repair set M9 x 1,25 for brake calliper guide bolts

- For the professional restoration
- Ideal for defective interior threads for brakes guide bolts in wheel hub housings to repair
- The interior thread in the wheel hub housing M9 x 1.25 serves to the reinforcement of the Brake guide bolts
- Due to the Special drill and the drilling template the defective thread is cleared
- In the second section a highly resilient, corrosion-resistant stainless steel threaded sleeve can then be inserted
- In durable plastic storage case

Application range: Golf 4, Golf Variant, Beetle, Audi A3 as well as structurally identical vehicles of that group VAG e.g. Audi, Skoda, Seat, Opel Astra G and Ford Focus



consists of:			
122.1300	16 pcs	Thread repair set M9 x 1,25 for brake calliper guide bolts	1.03

consists of:

consists of:			
122.1301	Special spiral reamer	55	
122.1302	Thread drill, M9x1.25	15	
122.1303	Replacement brush, 10pcs, M9x1.25	50	
122.1304	Drilling template, VAG	190	
122.1305	Drilling template, Opel Astra	190	
122.1306	Drilling template, Ford Focus	215	

BRAKE FLUID TESTER

Brake fluid tester

- For checking the H2O content in the brake fluid
- With automatic switching off after 12 minutes
- Handy pin form with clip for the breast pocket
- With safety cover
- Plastic housing



Technical data:

- Readout: optical/LED
- Battery type: 1xAAA
- Compatible for brake fluid : DOT4
- Standard: IEC/EN 61010-1
- Protection class: IP 44

	D mm	L mm	Weight
150.2199	20.0	150.0	70

Digital brake fluid tester

- For fast and accurate alignment of the steering wheel during the wheel alignment
- Exact measurement of the boiling point possible
- For measuring all brake fluids on glycol content (DOT3, DOT4, DOT 5.1)
- Portable can be used anywhere just connect to a 12 V vehicle battery
- Measurement possible through a sample goblet and dropper also means testing outside of the vehicle
- Enormous time savings through testing directly in the fluid container
- No loss of fluid
- Easy intelligible multilingual menu navigation
- Easy-to-read display
- Acknowledged by leading vehicle manufacturers
- Exceeds the requirements of the TÜV Austria
- Displays and eventual change of the brake fluid
- Plastic housing



Technical data:

- Readout: LCD display
- Compatible for brake fluid : DOT3, DOT4, DOT4 Plus, DOT4 Pro, DOT4 HP, DOT5.1
- Maximum Testing temperature: 320°C (608°F)
- Output-version: °C / °F
- Operational voltage: 12 V
- Dropper with test container 150.2195-1

consists of:			
150.2195	Digital brake fluid tester	1.25	

Digital brake fluid tester set with printer

- Includes printer with integrated software
- For fast and accurate alignment of the steering wheel during the wheel alignment
- Exact measurement of the boiling point possible
- For measuring all brake fluids on glycol content (DOT3, DOT4, DOT 5.1)
- Portable can be used anywhere just connect to a 12 V vehicle battery
- Measurement possible through a sample goblet and dropper also means testing outside of the vehicle
- Enormous time savings through testing directly in the fluid container
- No loss of fluid
- Easy intelligible multilingual menu navigation
- Easy-to-read display
- Acknowledged by leading vehicle manufacturers
- Exceeds the requirements of the TÜV Austria
- Displays and eventual change of the brake fluid
- Plastic housing



Technical data:

- Readout: LCD display
- Compatible for brake fluid : DOT3, DOT4, DOT4 Plus, DOT4 Pro, DOT4 HP, DOT5.1
- Maximum Testing temperature: 320°C (608°F)
- Output-version: °C / °F
- Operational voltage: 12 V

consists of:			
150.2198	Digital brake fluid tester set with printer	1.55	

consists of:

consists of:			
150.2196	Digital brake fluid tester	1255	
150.2197	Printer for brake fluid tester	187	

BRAKE BLEED WRENCHES

One handed multi function spanner

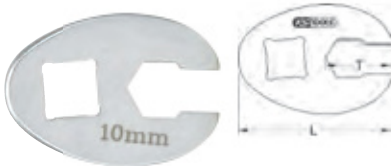
- Multi-function wrench with ratchet function
- For all screw work
- Adapts itself automatically to the screw size
- Self-clamping on flange pipes, bolts, shafts, and unscrewed bodies of hexagonal screws
- No slips thanks to the coarse teeth
- Chrome vanadium



	mm	L mm	Weight
114.0050	8-19	190.0	165
114.0051	14-32	300.0	515

Crawfoot wrench, hexagonal

- 6 point
- With internal square drive
- For manual operation
- Matt finis
- Chrome vanadium



	mm	L mm	T mm	Ø
913.3810	10,0	40,0	16,0	40
913.3811	11,0	37,0	13,0	40
913.3812	12,0	37,0	15,0	40
913.3813	13,0	36,0	14,0	40
913.3814	14,0	43,0	18,0	60
913.3815	15,0	42,0	20,0	60
913.3816	16,0	43,0	22,0	60

Joint ring wrench socket

- Hexagon (open)
- Special construction allows for the removal and tightening of hard-to-reach screws
- Universal usage
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case

Application range: universally suited to all pipe screws on injection systems, brake systems, etc.



	mm	Ø
911.1711	11,0	60
911.1712	12,0	70
911.1713	14,0	80
911.1714	16,0	140
911.1715	17,0	150
911.1716	18,0	160
911.1717	19,0	170

Joint ring wrench socket set (open)

- Hexagon (open)
- Special construction allows for the removal and tightening of hard-to-reach screws
- Universal usage
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case

Application range: universally suited to all pipe screws on injection systems, brake systems, etc.



	pcs	Joint ring wrench socket set (open)	900
911.1710	7 pcs	Joint ring wrench socket set (open)	900

consists of:

		Ø
911.1711	Joint ring wrench socket, 11 mm	60
911.1712	Joint ring wrench socket, 12 mm	70
911.1713	Joint ring wrench socket, 14 mm	80
911.1714	Joint ring wrench socket, 16 mm	140
911.1715	Joint ring wrench socket, 17 mm	150
911.1716	Joint ring wrench socket, 18 mm	160
911.1717	Joint ring wrench socket, 19 mm	170

Ratchet ring spanner, clamp head

- 12 point
- Straight form
- Hanging hole
- From 27 mm with rubber handle
- Chrome plated handle
- Head phosphate finis
- Chrome vanadium



	mm	A mm	B mm	L mm	Ø
500.5007	7	7,0	21,0	137,0	81
500.5008	8	7,0	21,0	137,0	83
500.5009	9	7,0	22,0	137,0	83
500.5010	10	7,0	22,0	137,0	82
500.5011	11	7,0	24,0	139,0	200
500.5012	12	7,0	28,0	140,0	88
500.5013	13	7,0	28,0	140,0	200
500.5014	14	7,0	28,0	140,0	88
500.5016	16	9,5	30,0	187,0	145

Brake bleeding combination spanner

- For pipe screws and screws
- Ideally suited to brake pipe and brake bleed screws
- Special hexagon profil
- Combination wrench
- Matt finis
- Chrome vanadium



	mm	Length mm	Ø
518.0341	7,0	115,0	20
518.0342	8,0	125,0	26
518.0343	9,0	135,0	34
518.0344	11,0	155,0	44
518.0345	12,0	165,0	52
518.0346	14,0	185,0	78

Brake bleeding combination spanner set

- For pipe screws and screws
- Ideally suited to brake pipe and brake bleed screws
- Special hexagon profil
- Combination wrench
- Matt finis
- Chrome vanadium



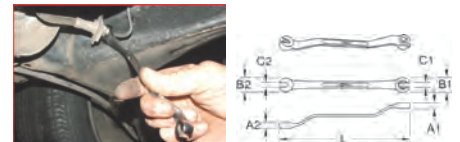
	pcs	Brake bleeding combination spanner set	300
518.0340	6 pcs	Brake bleeding combination spanner set	300

consists of:

		Ø
518.0341	Bleed wrench 7.0 mm	20
518.0342	Bleed wrench 8.0 mm	26
518.0343	Bleed wrench 9.0 mm	34
518.0344	Bleed wrench 11.0 mm	44
518.0345	Bleed wrench 12.0 mm	52
518.0346	Bleed wrench 14.0 mm	78

CHROMEplus® Open double ring spanner set, offset

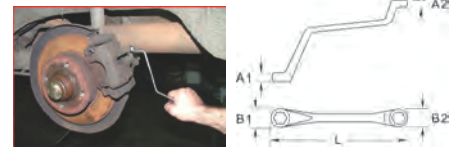
- 6 point
- Ring head 30° offset
- Spanner has double sized head
- Heavy duty head
- For brake pipe couplers
- No slippage
- Chrome plated and mirror polished
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	C1 mm	C2 mm	L mm	Ø
517.0270	10x11	10,5	11,2	17,8	20,0	6,0	6,1	175,0	80

Brake bleeding spanner

- 6-point
- Ideally suited to brake bleed screws
- Ring angled and offset
- For bleeding the brakes without disassembling the wheels
- Matt finis
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Ø
518.0307	7	5,3	5,6	12,9	12,1	190,0	60
518.0308	8	7,5	7,0	16,0	15,8	211,0	130
518.0309	9	7,4	6,9	16,0	15,9	211,0	130
518.0310	10	7,3	7,1	17,5	16,9	236,0	135
518.0311	11	7,2	7,0	17,3	16,9	236,0	135

Brake bleeding spanner set

- 6-point
- Ideally suited to brake bleed screws
- Ring angled and offset
- For bleeding the brakes without disassembling the wheels
- Matt finis
- Chrome vanadium
- Supplied in a leather pouch



	pcs	Brake bleeding spanner set	1.20
518.0300	5 pcs	Brake bleeding spanner set	1.20

consists of:

518.0307	Brake bleeding spanner, 7mm	60
518.0308	Brake bleeding spanner, 8mm	130
518.0309	Brake bleeding spanner, 9mm	130
518.0310	Brake bleeding spanner, 10mm	135
518.0311	Brake bleeding spanner, 11mm	135

Open double ring spanner, offset

- 6 point
- DIN 3118
- Jaw 15° offset
- Opening 15° cranked
- Chrome vanadium



		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
517.0252	8x10	6.6	6.7	17.6	19.8	143.0	45
517.0253	9x11	7.6	7.4	21.3	22.9	152.0	50
517.0254	10x11	7.6	7.4	21.3	22.9	152.0	60
517.0255	10x12	7.6	7.4	21.3	22.9	152.0	80
517.0257	12x13	8.8	9.0	23.1	23.8	156.0	100
517.0258	12x14	10.0	9.9	25.3	27.6	178.0	110
517.0260	14x15	11.4	11.5	30.0	32.1	196.0	120
517.0261	14x17	11.4	11.5	30.0	32.1	196.0	140
517.0263	16x18	11.4	11.5	30.0	32.1	196.0	160

CHROMEplus® Open double ring spanner, offset

- 6 point
- DIN 3118
- Jaw 15° offset
- Opening 15° cranked
- Chrome plated and mirror polished
- Chrome vanadium

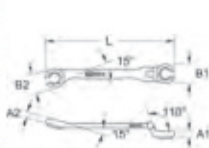


		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
518.0511	6x8	6.6	6.7	17.6	19.8	143.0	50
518.0512	8x12	6.7	7.4	19.8	21.3	147.0	50
518.0513	9x11	7.6	7.4	21.3	22.9	152.0	60
518.0523	10x11	7.6	7.4	21.3	22.9	152.0	60
518.0514	10x12	7.6	7.4	21.3	22.9	152.0	60
518.0524	12x13	8.8	9.0	23.1	23.8	156.0	80
518.0515	13x14	10.0	9.9	25.3	25.3	178.0	120
518.0525	14x15	11.4	11.5	30.0	30.0	196.0	170
518.0526	14x17	11.4	11.5	30.0	30.0	196.0	170
518.0516	15x17	11.4	11.5	30.0	30.0	196.0	170
518.0517	16x18	11.4	11.5	30.0	30.0	196.0	170



CHROMEplus® open double ring spanner, with flexible joint

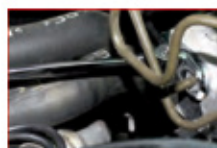
- 6 point
- Ring head 15° offset
- Opening 15° cranked
- With flexible joint
- Chrome plated and mirror polished
- Chrome vanadium



		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
518.0378	8	7.0	7.0	18.0	18.0	128.0	50
518.0379	9	7.0	7.0	18.0	18.0	128.0	50
518.0380	10	7.0	7.0	18.0	18.0	128.0	50
518.0381	11	9.0	9.0	22.0	22.0	148.0	120
518.0382	12	9.0	9.0	22.0	22.0	148.0	120
518.0383	13	11.0	11.0	26.0	26.0	175.0	140
518.0384	14	11.0	11.0	26.0	26.0	175.0	140
518.0387	17	13.0	13.0	32.0	32.0	190.0	200
518.0389	19	13.0	13.0	32.0	32.0	190.0	200

CHROMEplus® open double ring spanner set, with flexible joint

- 6 point
- Ring head 15° offset
- Opening 15° cranked
- With flexible joint
- Chrome plated and mirror polished
- Chrome vanadium



518.0350	3 pcs 10 - 11 - 12 mm 220
518.0360	5 pcs 8 - 9 - 10 - 11 - 12 mm 345
518.0370	3 pcs 14 - 17 - 19 mm 610

CHROMEplus® ratchet spanner with revolving head

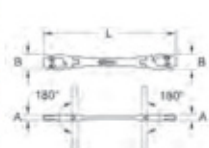
- 6 point
- Straight form
- 180° revolving head
- With ratchet function
- Suitable for force fit applications
- Chrome plated and mirror polished
- Chrome vanadium



		A mm	B mm	L mm	
518.0321	11	10.3	19.0	155.0	115

CHROMEplus® ratchet spanner with revolving head

- 6 point
- Straight form
- 180° revolving head
- Ratchet function
- Suitable for force fit applications
- Chrome plated and mirror polished
- Chrome vanadium



		A mm	B mm	L mm	
518.0332	8x9	8.5	14.8	123.0	56
518.0334	10x11	10.0	18.4	156.0	116
518.0336	12x13	11.2	21.1	179.0	170
518.0338	14x15	12.1	24.6	208.0	240

CHROMEplus® ratchet spanner set with revolving head

- 6 point
- Straight form
- 180° revolving head
- Ratchet function
- Suitable for force fit applications
- Chrome plated and mirror polished
- Chrome vanadium



518.0330	4 pcs 8x9 - 10x11 - 12x13 - 14x15 mm 600

BRAKE BLEEDER

Suction and filling bottle

- Ideal aid for drip-free filling or removal of brake fluid
- Suitable for brake fluid
- Acid-resistant
- With rubber ball and rubber pipe
- Special plastic



	L1 mm	L2 mm	
160.0738	245.0	130.0	92

Brake bleeding refill bottle

- Practical refill device
- While ventilation of the hydraulic brake system it is possible to refill brake fluid in reservoir
- Prevent the complete emptiness of the brake fluid reservoir and prevent the air gets into hydraulic brake system
- Universal clamping device for different reservoir openings
- Mount on the bottle on the brake fluid reservoir - open the valve - automatic level of control



150.2302	1	450
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One-man brake bleed adapter

- With return valve, which prevents used brake fluid from running back as well as air that has been pumped out
- Ideal for hard-to-reach places when bleeding the brakes
- Completely sealed connection of bleeding and filling devices
- For manual brake bleeds on hydraulic brake systems
- Especially suited for coupling systems
- Used fluids are led directly into the drip pan (optional) and stored environmentally
- One-man operation
- Short set-up time
- Simple operation
- Universal usage
- No need to adapt the balance container



150.2304	Length mm: 77.0	Width mm: 52.0	Weight kg: 60
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Brake bleeding spanner set

- Ideally suited to brake bleed screws
- For bleeding the brakes without disassembling the wheels
- Reversible ratchet wrench makes releasing and tightening easier
- Include fin-toothed and reversible ratchet with angled head
- Silicone bleed hose remains when releasing and tightening bleed valve
- Contains short and long hexagon through sockets
- Matt finish
- Chrome vanadium



518.0390	6 pcs	Brake bleeding spanner set	335
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consists of:

		L mm	Weight kg
518.0390-01	Silicone hose	1500,0	70
518.0390-02	9/16" ratchet for brake bleed	140,0	90
518.0390-03	Socket, short, 10 mm	29,0	30
518.0390-04	Socket, short, 11 mm	29,0	30
518.0390-05	Socket, long, 10 mm	75,0	75
518.0390-06	Socket, long, 11 mm	75,0	60

Brake bleeder with reception bottle

- With universal adapter
- Includes bendable silicone hose (400 mm)
- Ideal for containing the brake fluid when bleeding
- With robust hooks
- Special plastic



160.0735	1	272
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One-man brake bleeder with reception bottle

- With non-return valve, to avoid the backflow of old brake fluid or exhausted air
- Especially suited for clutch systems
- Old brake fluid is piped directly in the reception bottle and recycled
- One man operation
- Very short setup time - simple operation
- Universal usage
- No adaptors necessary
- Low priced in the acquirement

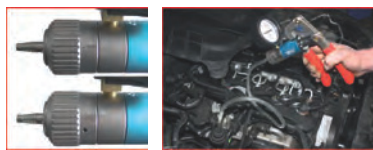


150.2305	1	1.18
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Automotive pressure and vacuum pump set

- For ventilating of smaller brake parts and for inspection of different areas including Low pressure and pressure functions
- Suitable for almost all current vehicles
- Robust metal execution
- Compact pistol form, one man operation
- Shock proof pressure and low pressure manometer with double scale
- Includes extensive adaptor assortment
- Readable in bar or psi
- In durable plastic storage case

Application range: Brake bleeding, test of the low pressure attitude the fuel pressure regulator, turbo charger valve, exhaust gas return valve and brake servos



Technical data:
Working range: vacuum up to -1 bar -30 Hg
pressure up to +1.5 bar 60 psi

150.1900	7 pcs	Automotive pressure and vacuum pump set	1.80
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consists of:

150.1901	Pressure and vacuum pump	730	
150.1902	Drip measuring beaker, 120 ml	44	
150.1903	Supply measuring beaker,	44	
150.1904	Adapter set, 14 pcs	15	
150.1905	Connection hose and sucker	23	
150.1906	Connection point set, 4 pcs	9	
150.1907	Connection hose set, 2 pcs	45	



Pneumatic brake fluid bleeder s t

- For the bleeding and filling of motor vehicle brake systems
- One-man operation
- Suitable for all current vehicles
- Vacuum production over pneumatic air through special "Venturi" -effect
- Bubble development is prevented efficiently
- Includes vacuum pistol and fill up container
- 1 l fill up container 1 l with automatic control mechanism
- The pneumatic operated pistol draws the old brake fluid through
- By means of fill up container this balances the new fluid container that becomes sucked through the Vacuum pistol system
- Includes 1/4" coupling connector



Technical data:

Operating pressure: min. 5,0 - max. 12,0
 Connection thread: 1/4"PT
 Operating temperature: -18°C up to max. 60°C
 Exhaust tube length: 1 m
 Collecting container volume: 2,0 l
 Waste container volume: 1,0 l

150.2058	3 pcs. Pneumatic brake fluid bleeder s t	1.81	

consists of:

150.2301	Brake bleeder unit	950	
150.2302	Brake bleeder filling bottle, 1 litre	450	
150.2303	Replacement tube for brake bleeder	410	

Vacuum fluid extractor suction pump 9.5 litre

- Ideal for quick, clean and simple suction, intake and emptying of fluid
- Suitable for engine oil, transmission oil, hydraulic oil, brake fluid, water, etc.
- For pneumatic use with a compressor or manual use with the integrated hand pump
- Select a suitable probe and suck easily using the vacuum principle
- Suction process automatically stopped when housing is full, preventing fluids from spilling over
- With integrated pressure relief valve for more safety
- With high-quality pump housing and strengthened pump head
- Includes 4 probes for different uses
- Ideally suited to hard-to-reach places thanks to the included, long suction hose
- The suction hose is resistant to petrol and oil
- Polyethylene

Application range: Passenger cars, transporters and MPVs, commercial vehicles, tractors, agricultural and construction machinery, industrial uses



Technical data:

Work pressure: 5-11,5 bar
 Capacity: 9,5 l
 Operating temperature: -0°C to +55°C
 Filling tube length: 1,5 m
 Max. flow rate: 125 l/min

160.0790	5 pcs. Vacuum fluid extractor suction pump 9.5 litre	5.00		

consists of:

160.0791	Vacuum fluid extractor suction pump 9.5 litre	3708	
160.0792	Adaptor and tube 4x8mm x1,5m	200	
160.0793	Main probe 7.8 x 9.8 mm x 1 m	200	
160.0794	Probe 5.3 x 6.7 mm x 1 m	200	
160.0795	Probe 3.5 x 4.5 mm x 1 m	200	



BRAKE MAINTENANCE TOOL

Brake maintenance device KS5

- Portable brake maintenance device
- Also suitable for ABS systems
- One-man operation
- Very good and user-friendly processing
- Mode of operation for use with original containers up to 5 litres
- Will not over-fill the amount of brake fluid required
- Pressure-free uncoupling on the vehicle
- Pulsing fluid flow ensures that even the smallest air pockets are removed from the brake system
- Fast, clean and environmentally friendly working
- Pressure regulator and analogous pressure notice shows on the device front
- Automatic end switching off in empty container
- No bleeding of the device when changing containers is necessary
- Manual on switch and empty switch
- Includes optimised suction hose with universal cone for original container and Euro adapter E20
- Not suited for mineral oil
- Steel housing

Application range: Tyre fitting, petrol stations, motorcycle workshops, small motor vehicle workshops, etc.



Technical data:

Max Container size: 5 l
 Work pressure: 0.5-3.5 bar
 Operational voltage: 230 V
 Filling tube length: 3.5 m
 Dimensions: 400 x 200 x 300 mm

160.0700	Brake maintenance device KS5	7.00	



Brake maintenance device KS20

- Portable brake maintenance device
- One-man operation
- Very good and user-friendly processing
- Integrated suction for extracting the old brake fluid
- Prevents damage to the ABS system
- Mode of operation for use with original containers up to 20 litres
- Will not over-fill the amount of brake fluid required
- Pressure-free uncoupling on the vehicle
- Pulsing fluid flow ensures that even the smallest air pockets are removed from the brake system
- Fast, clean and environmentally friendly working
- Pressure regulator and analogous pressure notice shows on the device front
- Automatic end switching off in empty container
- No bleeding of the device when changing containers is necessary
- Manual on switch and empty switch
- Includes optimised suction hose with universal cone for original container and Euro adapter E20
- Not suited for mineral oil
- Steel housing

Application range: Tyre fitting, petrol stations, motorcycle workshops, small motor vehicle workshops, etc.



Technical data:

Max Container size: 20 l
 Work pressure: approx. 0.4-3.5 bar
 Operational voltage: 230 V
 Filling tube length: 3.5 m
 Dimensions: 1000 x 400 x 400 mm

160.0705	Brake maintenance device KS20	20.00
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Bleed nozzle universal adapter U 90 with chain for brake bleeding

- Universal bottle adapter with securing chain
- Ideal for brake maintenance when installing on the reservoir
- Quick and easy to use
- For reservoir Ø 20 mm to Ø 78 mm
- Special seal for brake fluid
- With connection nipple for quick coupling
- Suitable for many vehicle types, especially those not suited for the Euro adapter
- Made of aluminium

Application range: Japanese, Asian, American models, etc.



160.0708	Bleed nozzle universal adapter U 90 with chain for brake bleeding	270
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Bleed nozzle bayonet adapter B 35 for brake bleeding

- Bayonet connection
- Ideal for brake maintenance when installing on the reservoir
- Quick and easy to use
- For reservoirs with internal Ø 34 mm and second seal for internal Ø 35 mm
- Special seal for brake fluid
- With connection nipple for quick coupling
- Suitable for many vehicle types with bayonet connection
- Made of aluminium

Application range: Japanese and European models, e.g. Subaru, Renault, Nissan, Suzuki, Hyundai, Kia etc.



160.0709	Bleed nozzle bayonet adapter B 35 for brake bleeding	175
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Bleed nozzle Euro adapter E 20 with swivel angle connector for brake bleeding

- Standard adapter
- Also for hard-to-reach reservoirs
- Ideal for brake maintenance when installing on the reservoir
- Quick and easy to use
- Special seal for brake fluid
- With connection nipple for quick coupling
- Suitable for many vehicle types
- Made of aluminium

Application range: For most European models, e.g. Alfa Romeo, Audi, BMW, Citroën, Dacia, Ford, Fiat, Lancia, Mazda, Mercedes, Mini, Opel, Peugeot, Porsche, Rover, Seat, Škoda, Volkswagen, Volvo etc.



160.0713	Bleed nozzle Euro adapter E 20 with swivel angle connector for brake bleeding	118
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Bleed nozzle thread adapter G 75 for brake bleeding

- Thread adapter
- Ideal for brake maintenance when installing on the reservoir
- Quick and easy to use
- Special seal for brake fluid
- With connection nipple for quick coupling
- Suitable for many vehicle types
- Made of aluminium

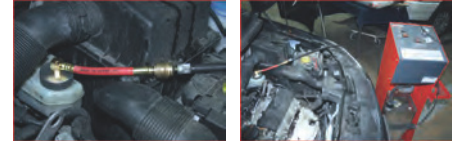
Application range: Volvo V40, Suzuki, Mitsubishi, Subaru etc.



160.0715	Bleed nozzle thread adapter G 75 for brake bleeding	215
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Bleed nozzle adaptor set for brake bleeding

- Usable in connection with brake maintenance devices
- Valuable supplement
- Including a selection of adapters for brake fluid reservoir
- Quick and easy to use
- With connection nipple for quick coupling
- Special seal for brake fluid
- Suitable for >98% of all vehicle types
- Indispensable for all vehicle work shops
- Aluminium adapter
- In durable plastic storage case



160.0710	4 pcs	Bleed nozzle adaptor set for brake bleeding	840
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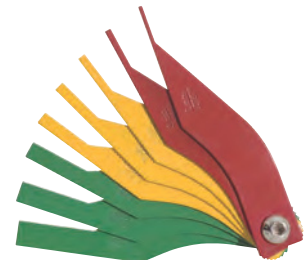
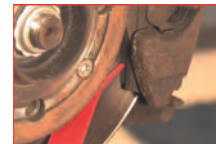
consists of:

160.0708	Bleed nozzle universal adapter U 90 for brake bleeding	270
160.0709	Bleed nozzle bayonet adapter B 35 for brake bleeding	175
160.0713	Bleed nozzle Euro adapter E 20 for brake bleeding	118
160.0715	Bleed nozzle thread adapter G 75 for brake bleeding	215

BRAKE MEASURING TOOL

Brake lining wear indicator set

- For quick assessment of the brake force strength on disk brakes
- With colour coding
- With mm display on the wear gauge
- Can measure from 2 mm to 12 mm



Technical data:

Red: lining thickness poor, replacement necessary
 Gold: lining thickness good to satisfactory
 Green: lining thickness very good to good - replacement not necessary

300.0570	8 pcs	Brake lining wear indicator set	265
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Brake disk vernier calliper

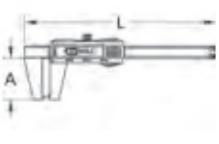
- In accordance with DIN 862
- Locking screw
- Scale division in black
- Measuring bar in mm divisions
- Entirely hardened, finely engineered
- Stainless steel
- In durable wooden case



	Measuring range mm	A mm	L mm	Display accuracy mm	Weight kg
300.0535	0 - 60	55.0	162.0	±/± 0,01	130
300.0536	0 - 90	120.0	255.0	±/± 0,01	135

Digital brake disk vernier calliper 0 - 60 mm

- In accordance with DIN 862
- Locking screw
- For internal measurements
- Scale division in black
- Measuring bar in mm and imperial divisions
- mm/imperial switching
- Hold button for fixing measured value
- Reset (to zero) in every position possible
- Large LCD display figure height 10.0 mm
- Automatic switching off
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case

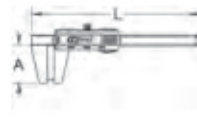


	Measuring range mm	A mm	L mm	Display accuracy mm	Weight kg
300.0540	0 - 60	55.0	160.0	±/± 0,03	130



Digital calliper for brake discs HGV 0 - 100 mm

- In accordance with DIN 862
- mm/imperial switching
- Hold button for fixing measured value
- Reset (to zero) in every position possible
- LCD display - figure height 6,0 mm
- With automatic switching off
- Stainless steel, hardened
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	Weight kg
300.0539	0 - 100	95.0	207.0	±/± 0,03	155

Brake drum calliper

- In accordance with DIN 862
- Locking screw
- For external and internal measurements
- Scale division in black
- Fine adjustment
- Measuring bar in mm divisions
- Thread table
- Internal measure has direct reading
- Entirely hardened, finely engineered
- Stainless steel
- In durable wooden case



	Inner measuring range mm	Outer measuring range mm	A mm	L mm	Display accuracy mm	Weight kg
300.0525	0 - 300	40 - 340	95.0	410.0	±/± 0,02	500
300.0530	0 - 500	60 - 560	150.0	660.0	±/± 0,05	1380

Brake disc calliper gauge

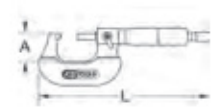
- Allows identification of the brake disc diameter without disassembling the wheels
- Universal usage
- Quick identification of the braking system
- No wrong ordering of brake pads or brake discs
- Quick and efficient
- Saves a lot of time



	Span mm	Length mm	Weight kg
300.0506	200-400	455.0	1,52

Micrometer

- In accordance with DIN 863
- With measurement locking screw
- Measuring force rule through ratchet sensation
- Spindle made out of hardened steel
- Measuring surfaces with hard metal tips
- With hand warmth insulation
- Stainless steel
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	Spindle mm	Clamp mm	Spindle pitch mm	Weight kg
300.0555	0-25	30.0	130.0	±/± 0,01	6,5	17,0	0,5	300



Digital outside micrometre

- DIN 863
- With measured value locating screw
- Measuring force rule through ratchet sensation
- Measuring surfaces with hard metal tips
- With hand warmth insulation
- Stainless steel
- 2 mm feed enables quick measurement
- IP54
- Large LCD display
- With automatic switching off
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	Spindle mm	Clamp mm	Spindle pitch mm	Weight kg
300.0580	0-25	24.0	160.0	±/± 0,01	6,5	17,0	0,5	310

Precision dial indicator gauge 0 - 10 mm

- In accordance with DIN 878
- With fixed adjusting screw and revolving scale reading
- Shockproof
- Splash proofed
- Measuring lip protected against contamination by a bellowed sleeve
- Clamping shaft \varnothing 8 mm H6
- With 2 measuring scales
- Spindle and clamping shaft made from stainless steel
- In durable plastic case



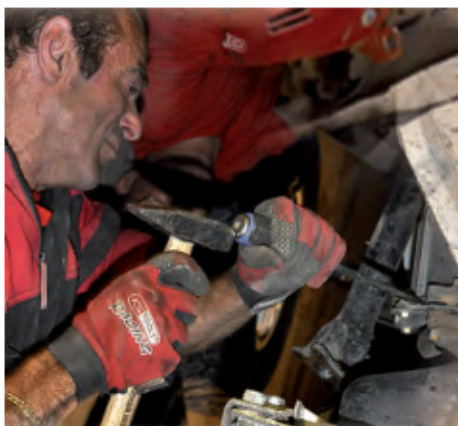
Measuring range mm	D mm	Display accuracy mm	Force resolution mm	Weight kg
300.0560	0 - 10	60.0	\pm 0,01	1.0

Digital precision dial indicator gauge 0 - 10 mm

- mm/imperial switching
- Reset (to zero) in every position
- Large LCD display figure height 6,0 mm
- Clamping shaft \varnothing 8 mm H6
- Automatic switching off
- Spindle and clamping shaft made from stainless steel
- In durable wooden case



Measuring range mm	D mm	Display accuracy mm	Weight kg
300.0565	0 - 10	60.0	\pm 0,02



Magnetic measurement stand with 2 joints

- For clamping of the dial indicator
- Revolving base
- Transverse arm with joint and fin adjustment
- With on and off switchable magnetic base
- High adhesive force on burnished steel and cast areas
- Also adhesive on convolutions
- Foot with prismatic base and stop area mounted edges
- With dial gauge reception \varnothing 8 mm



Radius mm	Height tool L x W x H mm	Total depth mm	Adhesive base mm	Stand \varnothing mm	Weight kg
300.0625	180.0	60x50x55	280.0	600.0	16.0

Magnetic measurement stand with 3 joints

- For clamping of the dial indicator
- Revolving base
- Transverse arm with joint and fin adjustment
- With on and off switchable magnetic base
- High adhesive force on burnished steel and cast areas
- Also adhesive on convolutions
- Foot with prismatic base and stop area mounted edges
- With dial gauge reception \varnothing 8 mm



Radius mm	Height tool L x W x H mm	Total depth mm	Adhesive base mm	Stand \varnothing mm	Weight kg
300.0623	280.0	50x55x60	380.0	600.0	12.0

Brake disc measuring tool set

- For measuring the radial and axial runout of wheel hubs and brake discs
- Exact positioning of the dial gauge on the test object with magnetic dial gauge holder
- Quick and easy attachment of stand with prismatic support and activated magnets
- Precise setting of the measuring scale with adjustable tolerance marks
- With rotating, knurled outer ring
- Suitable for measuring the brake disc thickness, and for detection of irregularities and distortion
- With measured value fixing lever and measuring force control with ratchet function
- In durable plastic storage case



Weight kg
150.2230

consists of:

Item	Weight kg	
300.0625	Magnetic-measurement stand	2.00
300.0560	Dial gauge 0 - 10 mm, mechanical	0.28
300.0556	Outside micrometre 25 - 50mm.	0.32

Brake disc measuring tool set

- Gauge stand with 3-point connection for the assembly of the bumper
- Ideal for identifying of vertical and lateral wobble on the brake disk
- Transverse arm with joint and fin adjustment
- Includes dial gauge and micrometre for identifying wear limit
- Universal usage
- Simple handling
- In durable plastic storage case



Weight kg
300.0690

consists of:

Item	Weight kg	
300.0691	3-point connection	660
300.0692	Stand	600
300.0560	Precise dial gauge, 0-10 mm	260
300.0555	Micrometre, 0-25 mm	300



Innovation is
our mission!



	PAGE
OIL DRAIN PLUG RELEASE TOOL	602 - 604
OIL DRAIN PLUGS & SEAL RINGS	605 - 622
OIL SUMP TOOL	623
TRANSMISSION OIL COOLANT TOOL	623
OIL DRAIN PLUG THREAD REPAIRER	623 - 625
OIL FILTER TENSION WRENCH	625 - 627
SPECIAL OIL FILTER WRENCH	627
OIL FILTER CAP WRENCH	628 - 635
OIL FILTER CAP WRENCH SET	635 - 637
OIL FILTER CUTTER	637
OIL DIP STICK	637
OIL FILLING AND EMPTYING PUMP	637 - 638
OIL FILLING CONTAINER	639 - 641
OIL COLLECTION PAN	641 - 642

OIL DRAIN PLUG RELEASE TOOL

Oil service wrench square socket for PSA

- For the quick and correct assembly and disassembly of the reduction screws on the oil sump, transmissions and differential
- Internal square
- Specially shaped for use
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Renault, Dacia, Peugeot, Citroën, etc.



	mm	Length mm	kg
150.9228	8x10	270.0	275

Oil service internal hexagon wrench

- For the quick and correct assembly and disassembly of the reduction screws on the oil sump, transmissions and differential
- Internal hexagon
- Specially shaped for use
- For manual operation
- Matt finish
- Chrome vanadium



	mm	Length mm	kg
150.9628	10x12	215.0	245

Oil service wrench hexagonal point for Fiat/Alfa Romeo

- For the quick and correct assembly and disassembly of the reduction screws on the oil sump, transmissions and differential
- Internal hexagon
- Specially shaped for use
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Alfa Romeo, Fiat, Lancia, Lada, etc.



	mm	Length mm	kg
150.9227	12	225.0	280

Oil service wrench square

- For the quick and correct assembly and disassembly of the reduction screws on the oil sump, transmissions and differential
- Internal and external square
- Also suitable for the assembly and disassembly of the oil filler
- Specially shaped for use
- For manual operation
- Matt finish
- Chrome vanadium



	mm	Length mm	kg
150.9627	10x10	238.0	340

Oil service internal hexagon wrench

- For the quick and correct assembly and disassembly of the reduction screws on the oil sump, transmissions and differential
- Internal hexagon
- With joint
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Renault, Peugeot, Citroën, Volvo, etc.



	mm	Length mm	kg
150.9225	10x14	256.0	280

Oil service hexagon wrench for Mercedes and BMW

- For the quick and correct assembly and disassembly of the oil filler screw on the transmission
- Internal hexagon
- External hexagon
- Specially shaped for use
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Mercedes W107, W123, W124, W126, W129, W163, W170, W201, W202, W203, W208, W210, W215, W220 Gearbox: 100, 110, 115, 116, 117, 615, 616, 617; BMW



	mm	mm	Length mm	kg
150.9231	14,0	17,0	235,0	230

Oil service hexagon wrench for Mercedes and BMW

- For the quick and correct assembly and disassembly of the oil filler screw on the transmission
- Internal hexagon
- External hexagon
- Specially shaped for use
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Mercedes Gearbox: 102, 103, 104, 110, 115, 116, 117, 119, 120, 123; BMW



	mm	mm	Length mm	kg
150.9232	14,0	13,0	290,0	230

Oil service wrench for VAG

- For the quick and correct assembly and disassembly of the oil filler screw on the transmission and the oil drain plug on the oil sump
- Internal hexagon
- External hexagon
- Specially shaped for use
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Audi, Seat, Škoda and Volkswagen



	mm	mm	Length mm	kg
150.9233	21,0	17,0	250,0	240

8 in 1 Oil service wrench

- For the quick and correct assembly and disassembly of the oil reduction and oil filler screws on transmission, the oil sump and differential
- Special wrench with 8 gear profiles
- Profile change by turning the wrench head
- For manual operation
- Special steel

Profile and wrench widths:
4-point: 10.0 - 11.0 - 12.0 - 13.0 - 14.0 - 15.0 mm
8-point: 14.0 - 17.0 mm

Application range: Audi, Seat, Ford, Renault, Volkswagen, etc.



	mm	Length mm	kg
150.9237	45,5	155,0	330

8 in 1 Oil service wrench

- For the quick and correct assembly and disassembly of the oil reduction and oil filling screws on transmission, the oil sump and differential
- Special wrench with 8 gear profiles
- Profile change by turning and snapping the wrench head
- For manual operation
- Matt chrome
- Special steel

Profile and wrench widths:
 4-point: 8.0 - 10.0 mm - 3/8" - 1/2"
 6-point: 10.0 - 12.0 - 14.0 - 17.0 mm

Application range: Audi, Seat, Ford, Renault, Volkswagen, etc.



	L mm	D1 mm	D2 mm	Weight
150.9302	270.0	40.0	50.0	620

Special oil service wrench for Toyota and Honda

- For quick and correct assembly and disassembly of the draining screw on the oil sump
- With 3/8" square drive
- For manual operation
- For a long life in robust workshop use
- Special steel

Application range: Toyota, Honda



	mm	L mm	Weight
150.9305	14.0	94.0	100

Flexible oil service bit socket for internal hexagon screws

- Internal hexagon
- Special flexible bit socket for actuating the transmission oil control screw on manual and automatic transmissions
- For hard to reach places
- Internal square drive to DIN 3120/ISO 1174
- With press fitted insert bit
- For machinery usage
- Phosphate
- Chrome molybdenum

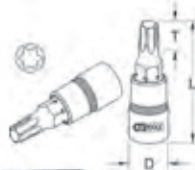
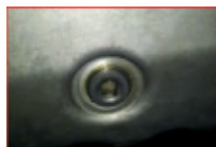
Application range: Audi, Seat, Volkswagen with manual and automatic transmissions



	mm	Length mm	Weight
150.9257	17.0	48.2	110

Bit socket for TX screws

- TX
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- Press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

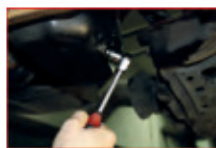


	D mm	L mm	T mm	Weight	
911.1366	T45	22.0	55.0	17.0	90

Oil service hexagonal socket with magnet

- 6-point
- FlankTraction profil
- Special socket for assembly and disassembly of oil drain and transmission oil control screw
- With strong, integrated magnets
- The magnets prevent the screws from falling down into the collection pans
- Internal square in accordance with DIN 3120/ISO 1174
- Perfect profile or correct actuation
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Audi, Alfa Romeo, Ford, Mercedes, Nissan, Toyota, Volkswagen, etc.



	mm	mm	Length mm	Weight
150.1404	13	19.0	20.5	23
150.1405	14	20.0	20.5	23
150.1406	17	24.0	34.0	34
150.1407	18	25.0	23.5	40
150.1408	19	26.0	44.0	44
150.1409	21	29.0	23.5	60

Oil service TX socket with magnet

- TX with pins
- Special socket for assembly and disassembly of oil drain and transmission oil control screw
- With strong, integrated magnets
- The magnets prevent the screws from falling down into the collection pans
- Internal square in accordance with DIN 3120/ISO 1174
- Perfect profile or correct actuation
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Opel, Mercedes, Fiat, etc.



	mm	Length mm	Weight	
150.1415	T45	19.0	34.0	31

Oil service bit socket for internal square screws with magnet

- Internal square
- Special socket for assembly and disassembly of oil drain and transmission oil control screw
- With strong, integrated magnets
- The magnets prevent the screws from falling down into the collection pans
- Internal square in accordance with DIN 3120/ISO 1174
- Perfect profile or correct actuation
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Renault, Dacia, Ford, Opel, Mitsubishi, Nissan, Volvo, etc.



	mm	mm	Length mm	Weight
150.1416	8	19.0	30.0	32
150.1438	9.5	19.0	30.0	34
150.1417	10	19.0	30.0	35
150.1429	10.5	19.0	30.0	38
150.1433	11	19.0	30.0	40
150.1434	13.1	19.0	30.0	42

Oil service bit socket for internal hexagon screws with magnet

- Internal hexagon
- Special socket for assembly and disassembly of oil drain and transmission oil control screw
- With strong, integrated magnets
- The magnets prevent the screws from falling down into the collection pans
- Internal square in accordance with DIN 3120/ISO 1174
- Perfect profile or correct actuation
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Audi, Seat, Opel, Fiat, Ford, Volkswagen, etc.



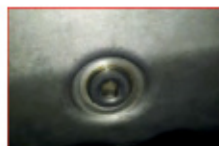
	mm	mm	Length mm	Weight
150.1436	8	19.0	30.0	32
150.1439	9	19.0	30.0	34
150.1441	10	19.0	30.0	35
150.1442	12	19.0	30.0	38
150.1443	13	19.0	30.0	40
150.1444	14	19.0	30.0	42
150.1446	17	19.0	30.0	52



Oil service square socket

- 4 point
- Special socket for assembly and disassembly of oil drain and transmission oil control screw
- Internal square in accordance with DIN 3120/ISO 1174
- Perfect profile or correct actuation
- For manual operation
- Matt finish
- Chrome vanadium

Application range: BMW, Ford, Renault, Toyota, etc.



	mm	mm	Length mm	Weight
150.1426	10	19,0	36,0	47

Oil service bit socket for internal triangle

- Internal triangle
- Special socket for assembly and disassembly of oil drain and transmission oil control screw
- Internal square in accordance with DIN 3120/ISO 1174
- Perfect profile or correct actuation
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Renault, Citroën, Peugeot, etc.

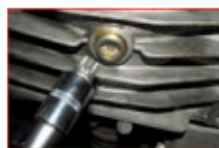


	mm	Length mm	Weight
150.1427	10	36,0	38

Oil drain bit socket for spline (XZN®) screws

- Multi-tooth (XZN®) with tamper proof screws
- Special bit socket for assembly and disassembly of oil drain and transmission oil control screw
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- With press fitted nickel plated insert bit
- Perfect profile or correct actuation
- For manual operation
- Chrome plated and mirror polished
- Chrome vanadium

Application range: Audi A2, A3, A4, A6/ Škoda Fabia, Octavia, Superb/ Volkswagen Passat, Golf IV, LT, etc.



		L mm	Weight
150.1437	3/8"	37,0	55
150.9364	1/2"	50,0	140

MASTER oil service bit socket set

- For screws on oil sumps, transmission, differential, etc.
- Special wrench set for the assembly and disassembly of most oil drains and transmission oil control screws
- In parts with strong, integrated magnets
- The magnets prevent the screws from falling down into the collection pans
- Internal square drive to DIN 3120/ISO 1174
- Perfect profile or correct actuation
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

Application range: Audi, Ford, Renault, Peugeot, Mercedes, Volkswagen, etc.



	Weight
150.1445 23 pcs MASTER oil service bit socket set	960

consists of:

		Weight
150.1404	Oil service hexagonal socket with magnet, 13 mm	23
150.1405	Oil service hexagonal socket with magnet, 14 mm	23
150.1406	Oil service hexagonal socket with magnet, 17 mm	34
150.1407	Oil service hexagonal socket with magnet, 18 mm	40
150.1408	Oil service hexagonal socket with magnet, 19 mm	44
150.1409	Oil service hexagonal socket with magnet, 21 mm	60
150.1436	3/8" Oil service bit socket for internal hexagon screws with magnet, 8 mm	32
150.1439	3/8" Oil service bit socket for internal hexagon screws with magnet, 9 mm	34
150.1441	3/8" Oil service bit socket for internal hexagon screws with magnet, 10 mm	35
150.1442	3/8" Oil service bit socket for internal hexagon screws with magnet, 12 mm	38
150.1443	3/8" Oil service bit socket for internal hexagon screws with magnet, 13 mm	40
150.1444	3/8" Oil service bit socket for internal hexagon screws with magnet, 14 mm	42
150.1446	3/8" Oil service bit socket for internal hexagon screws with magnet, 17 mm	52
150.1416	3/8" Oil service bit socket for internal square screws with magnet, 8 mm	32
150.1438	3/8" Oil service bit socket for internal square screws with magnet, 10,5 mm	34
150.1417	3/8" Oil service bit socket for internal square screws with magnet, 10 mm	35
150.1429	3/8" Oil service bit socket for internal square screws with magnet, 10,5 mm	38
150.1433	3/8" Oil service bit socket for internal square screws with magnet, 11 mm	40
150.1434	3/8" Oil service bit socket for internal square screws with magnet, 13,1 mm	42
150.1437	3/8" Oil service XZN socket with tamper proof screws, M16	55
150.1415	Oil service TX socket with magnet, T45	31
150.1426	Oil service square socket, 10 mm	47
150.1427	3/8" Oil service bit socket for internal triangle, 10 mm	38



Oil service wrench set

- For conical screws on the oil sump, transmission differential, etc.
- Special wrench set for the assembly and disassembly of most oil drains and transmission oil control screws
- External drive hexagonal socket 21.0 mm
- Perfect profile or correct actuation
- For manual operation
- Matt finish
- Chrome vanadium
- In durable steel storage case

Application range: Audi, Ford, Renault, Peugeot, Mercedes, etc.



	Weight
150.9390 6 pcs Oil service wrench set	800

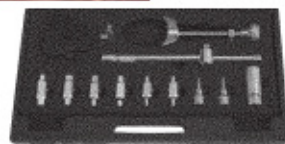
consists of:

		Weight
150.9391	Oil drain screw hexagon-Socket 8 + 10 mm	110
150.9392	Oil drain screw socket hexagon 5/16" + 3/8"	110
150.9393	Oil drain screw hexagon 8 mm + 3/8" (10 mm)	110
150.9394	Oil drain screw hexagon-Socket 12 mm + square 11 mm	110
150.9395	Oil drain screw hexagon-Socket 14 mm + square 13 mm	110
150.9396	Oil drain screw hexagon-Socket 17 mm + 1/2"	110

Oil sump plug and oil filler set

- For conical screws on the oil sump, transmission differential, etc.
- Ideal set for the assembly and disassembly of the oil sump and transmission oil control screw
- With oil filler clamping wrench and oil filler pins
- Perfect profile or correct actuation
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

Application range: Audi, Ford, Renault, Peugeot, Mercedes, Volkswagen, etc.



	Weight
150.9300 13 pcs Oil sump plug and oil filler set	1.55

consists of:

		Weight
150.9313	Oil filler or tension wrench with adapter 1/2" to 3/8"	370
150.9390	Oil drain plug key set, 6pcs	800
155.5002	Band wrench coil filler casing, 65-110mm	241
918.3806	CHROME+ spark plug socket, 3/8", 21mm	60
918.3807	CHROME+ drive adaptor, 3/8", 1/2" Fx3/8" M	60
918.3885	CHROME+ TX bit socket, 3/8", T40	35
918.3886	CHROME+ TX bit socket, 3/8", T45	50
918.3898	CHROME+ extension, knurled, 3/8", 250mm	240

ALFA ROMEO OIL DRAIN PLUG

Oil drain plug, M18 x 1.5 x 27 mm

- Internal hexagon
- Without seal ring



Content					
430.1001	10	M18x1,5x27	8	570	
430.2001	25	M18x1,5x27	8	1425	

Suitable seal ring:



Copper seal ring 26 x 18 x 2.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1506	10	26.0	18.0	2.5	30
430.2506	25	26.0	18.0	2.5	75

Oil drain plug M22 x 1.5 x 13.5 mm

- Internal hexagon
- Without seal ring



Content					
430.1002	10	M22x1,5x13,5	10	540	
430.2002	25	M22x1,5x13,5	10	1350	

Suitable seal ring:



Aluminium seal ring 30 x 22 x 1.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1517	10	30.0	22.0	1.5	10
430.2517	25	30.0	22.0	1.5	25

Oil drain plug M12 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content					
430.1331	10	M12x1,25x13	17	160	
430.2331	25	M12x1,25x13	17	400	

Suitable seal ring:



Copper seal ring 16 x 12 x 1.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1538	10	16.0	12.0	1.5	10
430.2538	25	16.0	12.0	1.5	25

Oil drain plug M22 x 1.5 x 16 mm

- External hexagon
- Without seal ring



Content					
430.1003	10	M22x1,5x16	18	430	
430.2003	25	M22x1,5x16	18	1075	

Suitable seal ring:



Aluminium seal ring 30 x 22 x 1.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1517	10	30.0	22.0	1.5	10
430.2517	25	30.0	22.0	1.5	25

AUDI OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 22 mm

- External hexagon
- Without seal ring



Content					
430.1222	10	M14x1,5x22	19	360	
430.2222	25	M14x1,5x22	19	900	

Suitable seal ring:



Filling ring 20 x 14 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1520	10	20.0	14.0	2.0	10
430.2520	25	20.0	14.0	2.0	25

Oil drain plug, M14 x 1.5 x 17.5 mm

- External hexagon
- With seal ring



Content					
430.1027	10	M14x1,5x17,5	19	410	
430.2027	25	M14x1,5x17,5	19	1025	

BMW OIL DRAIN PLUG

Oil drain plug, M24 x 1.5 x 12 mm

- Internal hexagon
- With seal ring



Content					
430.1231	10	M24x1,5x12	10	90	
430.2231	25	M24x1,5x12	10	225	

Oil drain plug M12 x 1.5 x 13.5 mm

- Internal hexagon
- Without seal ring



Content				
Qty	Part No.			
10	M12x1,5x13,5	13	130	
25	M12x1,5x13,5	13	325	

Suitable seal ring:



Copper seal ring 17 x 12 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
10	17.0	12.0	1.5	10
25	17.0	12.0	1.5	25

Oil drain plug M12 x 1.5 x 18 mm

- External hexagon
- Without seal ring



Content				
Qty	Part No.			
10	M12x1,5x18	17	240	
25	M12x1,5x18	17	600	

Suitable seal ring:



Aluminium seal ring 17 x 12 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
10	17.0	12.0	1.5	10
25	17.0	12.0	1.5	25

Oil drain plug M12 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content				
Qty	Part No.			
10	M12x1,25x13	14	250	
25	M12x1,25x13	14	625	

Suitable seal ring:



Aluminium seal ring 20 x 12 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
10	20.0	12.0	1.5	10
25	20.0	12.0	1.5	25

Oil drain plug M10 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content				
Qty	Part No.			
10	M10x1,25x13	21	180	
25	M10x1,25x13	21	450	

Suitable seal ring:



Copper seal ring 20 x 10 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
10	20.0	10.0	2.0	40
25	20.0	10.0	2.0	100

Oil drain plug M12 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content				
Qty	Part No.			
10	M12x1,5x13	17	200	
25	M12x1,5x13	17	500	

Suitable seal ring:



Aluminium seal ring 17 x 12 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
10	17.0	12.0	1.5	10
25	17.0	12.0	1.5	25

Oil drain plug M22 x 1.5 x 14 mm

- External hexagon
- Without seal ring



Content				
Qty	Part No.			
10	M22x1,5x14	19	750	
25	M22x1,5x14	19	1875	

Suitable seal ring:



Aluminium seal ring 27 x 22 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
10	27.0	22.0	1.5	10
25	27.0	22.0	1.5	25

Oil drain plug, M14 x 1.5 x 20 mm

- External hexagon
- With seal ring



Content			
430.1017	10	M14x1,5x20	13 400
430.2017	25	M14x1,5x20	13 1000

CHRYSLER OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 24 mm

- External hexagon
- Without seal ring



Content			
430.1025	10	M14x1,5x24	13 370
430.2025	25	M14x1,5x24	13 925

Suitable seal ring:



Copper seal ring 20 x 14 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1505	10	20.0	14.0	1.5 20
430.2505	25	20.0	14.0	1.5 50

Oil drain plug, M14 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1026	10	M14x1,5x13	17 320
430.2026	25	M14x1,5x13	17 800

Suitable seal ring:



Japan seal ring 19 x 14 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1518	10	19.0	14.0	2.0 20
430.2518	25	19.0	14.0	2.0 50

Oil drain plug, M14 x 1.5 x 17.5 mm

- External hexagon
- With seal ring



Content			
430.1027	10	M14x1,5x17,5	19 410
430.2027	25	M14x1,5x17,5	19 1025

Oil drain plug, 1/2" UNF x 1.25 x 20 mm

- External hexagon
- With seal ring



Content			
430.1028	10	1/2"UNFx1,25x20	16 440
430.2028	25	1/2"UNFx1,25x20	16 1100

Oil drain plug M16 x 1.25 L= 11.5 mm

- Internal hexagon
- Without seal ring



Content				
430.1029	10	M16x1,25x11,5	8 230	
430.2029	25	M16x1,25x11,5	8 575	

Suitable seal ring:



Copper seal ring 21 x 17 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1534	10	21.0	17.0	1.5 15
430.2534	25	21.0	17.0	1.5 30

CITROËN OIL DRAIN PLUG

Oil drain plug M10 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1015	10	M10x1,25x13	21 180
430.2015	25	M10x1,25x13	21 450

Suitable seal ring:



Copper seal ring 20 x 10 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1508	10	20.0	10.0	2.0 40
430.2508	25	20.0	10.0	2.0 100



Oil drain plug, M14 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1026	10	M14x1,5x13	17 320
430.2026	25	M14x1,5x13	17 800

Suitable seal ring:



Japan seal ring 19 x 14 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1518	10	19.0	14.0	2.0 20
430.2518	25	19.0	14.0	2.0 50

Oil drain plug M16 x 1.5 L = 16 mm

- External hexagon
- Without seal ring



Content			
430.1031	10	M16x1,5x16	21 390
430.2031	25	M16x1,5x16	21 975

Suitable seal ring:



Filling ring 22 x 16 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1521	10	22.0	16.0	2.0 10
430.2521	25	22.0	16.0	2.0 25

Oil drain plug, M20 x 1.5 x 12 mm

- Internal hexagon
- Without seal ring



Content			
430.1034	10	M20x1,5x12	12 290
430.2034	25	M20x1,5x12	12 725

Suitable seal ring:



Megu seal ring 26 x 19 mm x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1526	10	26.0	19.0	2.0 30
430.2526	25	26.0	19.0	2.0 75

DACIA OIL DRAIN PLUG

Oil drain plug M16 x 1.5 L = 13 mm

- Internal square
- Without seal ring



Content			
430.1041	10	M16x1,5x13	8 220
430.2041	25	M16x1,5x13	8 550

Suitable seal ring:



Megu seal ring with centring ribs, 24 x 16 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1524	10	24.0	16.0	2.0 20
430.2524	25	24.0	16.0	2.0 50

DAEWOO OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1026	10	M14x1,5x13	17 320
430.2026	25	M14x1,5x13	17 800

Suitable seal ring:



Copper seal ring 20 x 14 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1505	10	20.0	14.0	1.5 20
430.2505	25	20.0	14.0	1.5 50

DAIHATSU OIL DRAIN PLUG

Oil drain plug M12 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1012	10	M12x1,25x13	14 250
430.2012	25	M12x1,25x13	14 625

Suitable seal ring:



Soft seal ring 24 x 12 x 2.1 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1527	10	24.0	12.0	2.1 20
430.2527	25	24.0	12.0	2.1 50

FIAT OIL DRAIN PLUG

Oil drain plug, M18 x 1.5 x 27 mm

- Internal hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight
430.1001	10	M18x1,5x27	8	570
430.2001	25	M18x1,5x27	8	1425

Suitable seal ring:



Copper seal ring 26 x 18 x 2.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight	
430.1506	10	26.0	18.0	2.5	30
430.2506	25	26.0	18.0	2.5	75

Oil drain plug, M18 x 1.5 x 27 mm

- Internal hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight
430.1001	10	M18x1,5x27	8	570
430.2001	25	M18x1,5x27	8	1425

Suitable seal ring:



Megu seal ring 26 x 19 mm x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight	
430.1526	10	26.0	19.0	2.0	30
430.2526	25	26.0	19.0	2.0	75

Oil drain plug M22 x 1.5 x 13.5 mm

- Internal hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight
430.1002	10	M22x1,5x13,5	10	540
430.2002	25	M22x1,5x13,5	10	1350

Suitable seal ring:



Aluminium seal ring 30 x 22 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight	
430.1517	10	30.0	22.0	1.5	10
430.2517	25	30.0	22.0	1.5	25

Oil drain plug M22 x 1.5 x 16 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight
430.1003	10	M22x1,5x16	18	430
430.2003	25	M22x1,5x16	18	1075

Suitable seal ring:



Aluminium seal ring 30 x 22 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight	
430.1517	10	30.0	22.0	1.5	10
430.2517	25	30.0	22.0	1.5	25

Oil drain plug M12 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight
430.1331	10	M12x1,25x13	17	160
430.2331	25	M12x1,25x13	17	400

Suitable seal ring:



Copper seal ring 16 x 12 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight	
430.1538	10	16.0	12.0	1.5	10
430.2538	25	16.0	12.0	1.5	25

FORD OIL DRAIN PLUG

Oil drain plug M10 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight
430.1015	10	M10x1,25x13	21	180
430.2015	25	M10x1,25x13	21	450

Suitable seal ring:



Copper seal ring 20 x 10 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight	
430.1508	10	20.0	10.0	2.0	40
430.2508	25	20.0	10.0	2.0	100

Oil drain plug, M14 x 1.5 x 17.5 mm

- External hexagon
- With seal ring



Content		KS TOOLS		
430.1027	10	M14x1,5x17,5	19	410
430.2027	25	M14x1,5x17,5	19	1025

Oil drain plug, M14 x 1.5 x 16 mm

- External hexagon
- Without seal ring



Content		KS TOOLS		
430.1061	10	M14x1,5x16	13	340
430.2061	25	M14x1,5x16	13	850

Suitable seal ring:



Megu seal ring with centring ribs, 24 x 16 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1525	10	24.0	16.0	2.0	20
430.2525	25	24.0	16.0	2.0	50


Oil drain plug, M14 x 1.25 x 13 mm

- Internal hexagon
- Without seal ring



Content		KS TOOLS		
430.1062	10	M14x1,25x13	8	230
430.2062	25	M14x1,25x13	8	575

Suitable seal ring:



Filling ring 20 x 14 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1520	10	20.0	14.0	2.0	10
430.2520	25	20.0	14.0	2.0	25

Oil drain plug, M14 x 1.5 x 21 mm

- External hexagon
- Without seal ring



Content		KS TOOLS		
430.1064	10	M14x1,5x21	13	570
430.2064	25	M14x1,5x21	13	1425

Suitable seal ring:



NBR seal ring 22 x 13 x 3.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1530	10	22.0	13.0	3.0	10
430.2530	25	22.0	13.0	3.0	25

Oil drain plug M12 x 1.75 x 28.5 mm

- External hexagon
- With seal ring



Content		KS TOOLS		
430.1066	10	M12x1,75x28,5	15	450
430.2066	25	M12x1,75x28,5	15	1125

Oil drain plug M12 x 1.75 x 21 mm

- External hexagon
- With seal ring



Content		KS TOOLS		
430.1068	10	M12x1,75x21	15	380
430.2068	25	M12x1,75x21	15	950

Oil drain plug, M14 x 1.25 x 12 mm

- Internal hexagon
- Without seal ring



Content		KS TOOLS		
430.1067	10	M14x1,25x12	8	220
430.2067	25	M14x1,25x12	8	550

Suitable seal ring:



Filling ring 20 x 14 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1520	10	20.0	14.0	2.0	10
430.2520	25	20.0	14.0	2.0	25

GENERAL MOTORS OIL DRAIN PLUG

Oil drain plug M12 x 1.75 x 25 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1065	10	M12x1,75x25	15	400
430.2065	25	M12x1,75x25	15	1000

Suitable seal ring:



NBR seal ring 21 x 11 x 2.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1529	10	21.0	11.0	2.5	10
430.2529	25	21.0	11.0	2.5	25

Oil drain plug M12 x 1.75 x 26 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1069	10	M12x1,75x26	15	360
430.2069	25	M12x1,75x26	15	900

Suitable seal ring:



Megu seal ring 18 x 12.7 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1537	10	18.0	12.7	1.5	13
430.2537	25	18.0	12.7	1.5	33

HONDA OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 11 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1071	10	M14x1,5x11	17	330
430.2071	25	M14x1,5x11	17	825

Suitable seal ring:



Aluminium seal ring 22 x 14 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1514	10	22.0	14.0	2.0	10
430.2514	25	22.0	14.0	2.0	25

HYUNDAI OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1026	10	M14x1,5x13	17	320
430.2026	25	M14x1,5x13	17	800

Suitable seal ring:



Japan seal ring 19 x 14 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1518	10	19.0	14.0	2.0	20
430.2518	25	19.0	14.0	2.0	50

Oil drain plug, M14 x 1.5 x 23 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1077	10	M14x1,5x23	17	450
430.2077	25	M14x1,5x23	17	1125

Suitable seal ring:



Japan seal ring 19 x 14 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1518	10	19.0	14.0	2.0	20
430.2518	25	19.0	14.0	2.0	50

ISUZU OIL DRAIN PLUG

Oil drain plug, M18 x 1.5 x 21 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1081	10	M18x1,5x21	13	450
430.2081	25	M18x1,5x21	13	1125

Suitable seal ring:



Megu seal ring 26 x 19 mm x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1526	10	26.0	19.0	2.0	30
430.2526	25	26.0	19.0	2.0	75

JAGUAR OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 21 mm

- External hexagon
- Without seal ring



Content			
430.1064	10	M14x1,5x21	13
430.2064	25	M14x1,5x21	13

Suitable seal ring:



NBR seal ring 22 x 13 x 3.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1530	10	22.0	13.0	3.0	10
430.2530	25	22.0	13.0	3.0	25

JEEP OIL DRAIN PLUG

Oil drain plug M12 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1014	10	M12x1,5x13	17
430.2014	25	M12x1,5x13	17

Suitable seal ring:



Copper seal ring 17 x 12 x 1.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1502	10	17.0	12.0	1.5	10
430.2502	25	17.0	12.0	1.5	25

Oil drain plug, M14 x 1.5 x 17.5 mm

- External hexagon
- With seal ring



Content			
430.1027	10	M14x1,5x17,5	19
430.2027	25	M14x1,5x17,5	19

KIA OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1026	10	M14x1,5x13	17
430.2026	25	M14x1,5x13	17

Suitable seal ring:



Japan seal ring 19 x 14 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1518	10	19.0	14.0	2.0	20
430.2518	25	19.0	14.0	2.0	50

LADA OIL DRAIN PLUG

Oil drain plug M22 x 1.5 x 10 mm

- Internal hexagon
- Bevelled
- Seal ring not necessary



Content			
430.1101	10	M22x1,5x10	10
430.2101	25	M22x1,5x10	10

LANCIA OIL DRAIN PLUG

Oil drain plug M12 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1331	10	M12x1,25x13	17
430.2331	25	M12x1,25x13	17

Suitable seal ring:



Copper seal ring 16 x 12 x 1.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1538	10	16.0	12.0	1.5	10
430.2538	25	16.0	12.0	1.5	25

Oil drain plug M22 x 1.5 x 16 mm

- External hexagon
- Without seal ring



Content			
430.1003	10	M22x1,5x16	18
430.2003	25	M22x1,5x16	18

Suitable seal ring:



Aluminium seal ring 30 x 22 x 1.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1517	10	30.0	22.0	1.5	10
430.2517	25	30.0	22.0	1.5	25

LAND ROVER OIL DRAIN PLUG

Oil drain plug M10 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1015	10	M10x1,25x13	21	180
430.2015	25	M10x1,25x13	21	450

Suitable seal ring:



Copper seal ring 20 x 10 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1508	10	20.0	10.0	2.0	40
430.2508	25	20.0	10.0	2.0	100

Oil drain plug, M14 x 1.5 x 16 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1061	10	M14x1,5x16	13	340
430.2061	25	M14x1,5x16	13	850

Suitable seal ring:



Megu seal ring with centring ribs, 24 x 16 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1525	10	24.0	16.0	2.0	20
430.2525	25	24.0	16.0	2.0	50

LEXUS OIL DRAIN PLUG

Oil drain plug M12 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1012	10	M12x1,25x13	14	250
430.2012	25	M12x1,25x13	14	625

Suitable seal ring:



Soft seal ring 24 x 12 x 2.1 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1527	10	24.0	12.0	2.1	20
430.2527	25	24.0	12.0	2.1	50

MAZDA OIL DRAIN PLUG

Oil drain plug M10 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1015	10	M10x1,25x13	21	180
430.2015	25	M10x1,25x13	21	450

Suitable seal ring:



Copper seal ring 20 x 10 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1508	10	20.0	10.0	2.0	40
430.2508	25	20.0	10.0	2.0	100

Oil drain plug M12 x 1.75 x 28.5 mm

- External hexagon
- With seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1066	10	M12x1,75x28,5	15	450
430.2066	25	M12x1,75x28,5	15	1125

Oil drain plug, M14 x 1.5 x 10 mm

- External hexagon
- Without seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1117	10	M14x1,5x10	19	280
430.2117	25	M14x1,5x10	19	700

Suitable seal ring:



Copper seal ring 20 x 14 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g	
430.1505	10	20.0	14.0	1.5	20
430.2505	25	20.0	14.0	1.5	50

Oil drain plug M12 x 1.75 x 21 mm

- External hexagon
- With seal ring



Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1068	10	M12x1,75x21	15	380
430.2068	25	M12x1,75x21	15	950

MERCEDES BENZ OIL DRAIN PLUG

Oil drain plug M12 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content	mm		
430.1014	10	M12x1,5x13	17
430.2014	25	M12x1,5x13	17

Suitable seal ring:



Copper seal ring 17 x 12 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1502	10	17.0	12.0	1.5
430.2502	25	17.0	12.0	1.5

Oil drain plug, M14 x 1.5 x 24 mm

- External hexagon
- Without seal ring



Content	mm		
430.1025	10	M14x1,5x24	13
430.2025	25	M14x1,5x24	13

Suitable seal ring:



Copper seal ring 20 x 14 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1505	10	20.0	14.0	1.5
430.2505	25	20.0	14.0	1.5

Oil drain plug, M14 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content	mm		
430.1026	10	M14x1,5x13	17
430.2026	25	M14x1,5x13	17

Suitable seal ring:



Japan seal ring 19 x 14 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1518	10	19.0	14.0	2.0
430.2518	25	19.0	14.0	2.0

MITSUBISHI OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content	mm		
430.1026	10	M14x1,5x13	17
430.2026	25	M14x1,5x13	17

Suitable seal ring:



Japan seal ring 19 x 14 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1518	10	19.0	14.0	2.0
430.2518	25	19.0	14.0	2.0

NISSAN OIL DRAIN PLUG

Oil drain plug M12 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content	mm		
430.1012	10	M12x1,25x13	14
430.2012	25	M12x1,25x13	14

Suitable seal ring:



Sleeve 17 x 12 x 3.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1509	10	17.0	12.0	3.0
430.2509	25	17.0	12.0	3.0

Oil drain plug M16 x 1.5 L= 13 mm

- Internal square
- Without seal ring



Content	mm		
430.1041	10	M16x1,5x13	8
430.2041	25	M16x1,5x13	8

Suitable seal ring:



Megu seal ring with centring ribs, 24 x 16 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1524	10	24.0	16.0	2.0
430.2524	25	24.0	16.0	2.0

Oil drain plug M16 JIS x 1.25 L= 11 mm

- External hexagon
- Without seal ring



Content		M16		M16	
Part No.	Quantity	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1043	10	M16JISx1,25x11	22		430
430.2043	25	M16JISx1,25x11	22		1075

Suitable seal ring:



Seal ring, sleeve 21 x 15 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1531	10	21.0	15.0	2.0	10
430.2531	25	21.0	15.0	2.0	25

OPEL OIL DRAIN PLUG

Oil drain plug M22 x 1.5 x 13.5 mm

- Internal hexagon
- Without seal ring



Content		M22		M22	
Part No.	Quantity	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1002	10	M22x1,5x13,5	10		540
430.2002	25	M22x1,5x13,5	10		1350

Suitable seal ring:



Aluminium seal ring 30 x 22 x 1.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1517	10	30.0	22.0	1.5	10
430.2517	25	30.0	22.0	1.5	25

Oil drain plug, M18 x 1.5 x 21 mm

- External hexagon
- Without seal ring



Content		M18		M18	
Part No.	Quantity	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1061	10	M18x1,5x21	13		450
430.2061	25	M18x1,5x21	13		1125

Suitable seal ring:



Megu seal ring 26 x 19 mm x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1526	10	26.0	19.0	2.0	30
430.2526	25	26.0	19.0	2.0	75

Oil drain plug, M14 x 1.5 x 10.5 mm

- Torx
- With seal ring



Content		M14		M14	
Part No.	Quantity	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1137	10	M14x1,5x10,5	T45		240
430.2137	25	M14x1,5x10,5	T45		600

Suitable seal ring:



NBR seal ring 22 x 18 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1528	10	22.0	18.0	2.0	10
430.2528	25	22.0	18.0	2.0	25

Oil drain plug, M14 x 1.5 x 12 mm

- External hexagon
- Without seal ring



Content		M14		M14	
Part No.	Quantity	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1136	10	M14x1,5x12	19		270
430.2136	25	M14x1,5x12	19		675

Suitable seal ring:



Copper seal ring 20 x 14 x 1.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1505	10	20.0	14.0	1.5	20
430.2505	25	20.0	14.0	1.5	50

Oil drain plug M12 x 1.75 x 25 mm

- External hexagon
- Without seal ring



Content		M12		M12	
Part No.	Quantity	Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1138	10	M12x1,75x25	15		410
430.2138	25	M12x1,75x25	15		1025

Suitable seal ring:



NBR seal ring 21 x 11 x 2.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	Weight g
430.1529	10	21.0	11.0	2.5	10
430.2529	25	21.0	11.0	2.5	25

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PEUGEOT OIL DRAIN PLUG

Oil drain plug M10 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content		1000	Hexagon	Weight
430.1015	10	M10x1,25x13	21	180
430.2015	25	M10x1,25x13	21	450

Suitable seal ring:



Copper seal ring 20 x 10 x 2.0 mm

Content		Outer Ø	Inner Ø	Thickness	Weight
430.1508	10	20.0	10.0	2.0	40
430.2508	25	20.0	10.0	2.0	100

Oil drain plug, M20 x 1.5 x 12 mm

- Internal hexagon
- Without seal ring



Content		1000	Internal Hexagon	Weight
430.1034	10	M20x1,5x12	12	290
430.2034	25	M20x1,5x12	12	725

Suitable seal ring:



Filling ring 26 x 20 x 2.0 mm

Content		Outer Ø	Inner Ø	Thickness	Weight
430.1523	10	26.0	20.0	2.0	10
430.2523	25	26.0	20.0	2.0	25

Oil drain plug M16 x 1.5 L= 13 mm

- Internal square
- Without seal ring



Content		1000	Internal Square	Weight
430.1041	10	M16x1,5x13	8	220
430.2041	25	M16x1,5x13	8	550

Suitable seal ring:



Filling ring 22 x 16 x 2.0 mm

Content		Outer Ø	Inner Ø	Thickness	Weight
430.1521	10	22.0	16.0	2.0	10
430.2521	25	22.0	16.0	2.0	25

Oil drain plug, M14 x 1.25 x 13 mm

- Internal hexagon
- Without seal ring



Content		1000	Internal Hexagon	Weight
430.1062	10	M14x1,25x13	8	230
430.2062	25	M14x1,25x13	8	575

Suitable seal ring:



Filling ring 20 x 14 x 2.0 mm

Content		Outer Ø	Inner Ø	Thickness	Weight
430.1520	10	20.0	14.0	2.0	10
430.2520	25	20.0	14.0	2.0	25

PORSCHE OIL DRAIN PLUG

Oil drain plug, M20 x 1.5 x 14 mm

- External hexagon
- Without seal ring



Content		1000	Hexagon	Weight
430.1226	10	M20x1,5x14	15	550
430.2226	25	M20x1,5x14	15	1375

Suitable seal ring:



Copper seal ring 27 x 22 x 1.5 mm

Content		Outer Ø	Inner Ø	Thickness	Weight
430.1533	10	27.0	22.0	1.5	10
430.2533	25	27.0	22.0	1.5	25

Oil drain plug, M18 x 1.5 x 11 mm

- Internal hexagon
- Without seal ring



Content		1000	Internal Hexagon	Weight
430.1227	10	M18x1,5x11	8	110
430.2227	25	M18x1,5x11	8	275

Suitable seal ring:



Aluminium seal ring 24 x 18 x 1.5 mm

Content		Outer Ø	Inner Ø	Thickness	Weight
430.1515	10	24.0	18.0	1.5	10
430.2515	25	24.0	18.0	1.5	25

Oil drain plug, M26 x 1.5 x 11 mm

- External hexagon
- Without seal ring



Content				
430.1228	10	M26x1,5x11	22	680
430.2228	25	M26x1,5x11	22	1700

Suitable seal ring:



Aluminum seal ring 32 x 26 x 2.0 mm

Content		Outer Ø	Inner Ø	Thickness	
		mm	mm	mm	
430.1536	10	32.0	26.0	2.0	10
430.2536	25	32.0	26.0	2.0	25

RENAULT OIL DRAIN PLUG

Oil drain plug M22 x 1.5 x 13.5 mm

- Internal hexagon
- Without seal ring



Content				
430.1002	10	M22x1,5x13,5	10	540
430.2002	25	M22x1,5x13,5	10	1350

Suitable seal ring:



Aluminum seal ring 30 x 22 x 1.5 mm

Content		Outer Ø	Inner Ø	Thickness	
		mm	mm	mm	
430.1517	10	30.0	22.0	1.5	10
430.2517	25	30.0	22.0	1.5	25

Oil drain plug M16 x 1.5 L= 13 mm

- Internal square
- Without seal ring



Content				
430.1041	10	M16x1,5x13	8	220
430.2041	25	M16x1,5x13	8	550

Suitable seal ring:



Filling ring 22 x 16 x 2.0 mm

Content		Outer Ø	Inner Ø	Thickness	
		mm	mm	mm	
430.1521	10	22.0	16.0	2.0	10
430.2521	25	22.0	16.0	2.0	25

Oil drain plug M16 x 1.5 L= 13 mm

- Internal square
- Without seal ring



Content				
430.1158	10	M16x1,5x13	8	350
430.2158	25	M16x1,5x13	8	875

Suitable seal ring:



Filling ring 22 x 16 x 2.0 mm

Content		Outer Ø	Inner Ø	Thickness	
		mm	mm	mm	
430.1521	10	22.0	16.0	2.0	10
430.2521	25	22.0	16.0	2.0	25

Oil drain plug M16 x 1.5 L= 24 mm

- Internal square
- Without seal ring



Content				
430.1157	10	M16x1,5x24	8	310
430.2157	25	M16x1,5x24	8	775

Suitable seal ring:



Filling ring 22 x 16 x 2.0 mm

Content		Outer Ø	Inner Ø	Thickness	
		mm	mm	mm	
430.1521	10	22.0	16.0	2.0	10
430.2521	25	22.0	16.0	2.0	25

Oil drain plug, M18 x 1.5 x 16 mm

- Internal square
- Without seal ring



Content				
430.1159	10	M18x1,5x16	8	350
430.2159	25	M18x1,5x16	8	875

Suitable seal ring:



Filling ring 24 x 18 x 2.0 mm

Content		Outer Ø	Inner Ø	Thickness	
		mm	mm	mm	
430.1522	10	24.0	18.0	2.0	10
430.2522	25	24.0	18.0	2.0	25

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Oil drain plug, M18 x 1.5 x 22 mm

- Internal square
- Without seal ring



Content				
430.1161	10	M18x1,5x22	8	410
430.2161	25	M18x1,5x22	8	1025

Suitable seal ring:


Filling ring 24 x 18 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1522	10	24.0	18.0	2.0	10
430.2522	25	24.0	18.0	2.0	25

ROVER OIL DRAIN PLUG
Oil drain plug M12 x 1.5 x 18 mm

- External hexagon
- Without seal ring



Content				
430.1011	10	M12x1,5x18	17	240
430.2011	25	M12x1,5x18	17	600

Suitable seal ring:


Aluminium seal ring 17 x 12 x 1.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1512	10	17.0	12.0	1.5	10
430.2512	25	17.0	12.0	1.5	25

ROVER MINI OIL DRAIN PLUG
Oil drain plug UNC 5/8" x 11G x 16 mm

- External hexagon
- Without seal ring



Content				
430.1171	10	UNC 5/8"x11Gx16	24	480
430.2171	25	UNC 5/8"x11Gx16	24	1200

Suitable seal ring:


Copper seal ring 25.5 x 16 x 1.6 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1511	10	25.5	16.0	1.6	40
430.2511	25	25.5	16.0	1.6	100

SAAB OIL DRAIN PLUG
Oil drain plug M22 x 1.5 x 13.5 mm

- Internal hexagon
- Without seal ring



Content				
430.1002	10	M22x1,5x13,5	10	540
430.2002	25	M22x1,5x13,5	10	1350

Suitable seal ring:


Aluminium seal ring 30 x 22 x 1.5 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1517	10	30.0	22.0	1.5	10
430.2517	25	30.0	22.0	1.5	25

Oil drain plug, M14 x 1.5 x 16 mm

- External hexagon
- Without seal ring



Content				
430.1061	10	M14x1,5x16	13	340
430.2061	25	M14x1,5x16	13	850

Suitable seal ring:


Copper seal ring 24 x 15 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1510	10	24.0	15.0	2.0	40
430.2510	25	24.0	15.0	2.0	100

Oil drain plug, M14 x 1.5 x 21 mm

- External hexagon
- Without seal ring



Content				
430.1064	10	M14x1,5x21	13	570
430.2064	25	M14x1,5x21	13	1425

Suitable seal ring:


NBR seal ring 22 x 13 x 3.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	
430.1530	10	22.0	13.0	3.0	10
430.2530	25	22.0	13.0	3.0	25

Oil drain plug, M18 x 1.5 x 21 mm

- External hexagon
- Without seal ring



Content	Quantity	Part No.	Material	Weight
430.1081	10	M18x1,5x21	13	450
430.2081	25	M18x1,5x21	13	1125

Suitable seal ring:



Megu seal ring 26 x 19 mm x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight	
430.1526	10	26.0	19.0	2.0	30
430.2526	25	26.0	19.0	2.0	75

Oil drain plug, M14 x 1.5 x 10.5 mm

- Torx
- With seal ring



Content	Quantity	Part No.	Material	Weight
430.1137	10	M14x1,5x10,5	T45	240
430.2137	25	M14x1,5x10,5	T45	600

Suitable seal ring:



NBR seal ring 22 x 18 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight	
430.1528	10	22.0	18.0	2.0	10
430.2528	25	22.0	18.0	2.0	25

Oil drain plug M12 x 1.75 x 25 mm

- External hexagon
- Without seal ring



Content	Quantity	Part No.	Material	Weight
430.1138	10	M12x1,75x25	15	410
430.2138	25	M12x1,75x25	15	1025

Suitable seal ring:



NBR seal ring 21 x 11 x 2.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight	
430.1529	10	21.0	11.0	2.5	10
430.2529	25	21.0	11.0	2.5	25

SEAT OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 17.5 mm

- External hexagon
- With seal ring



Content	Quantity	Part No.	Material	Weight
430.1027	10	M14x1,5x17,5	19	410
430.2027	25	M14x1,5x17,5	19	1025

ŠKODA OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 17.5 mm

- External hexagon
- With seal ring



Content	Quantity	Part No.	Material	Weight
430.1027	10	M14x1,5x17,5	19	410
430.2027	25	M14x1,5x17,5	19	1025

SMART 451 OIL DRAIN PLUG

Oil drain plug M22 x 1.5 x 14 mm

- External hexagon
- Without seal ring



Content	Quantity	Part No.	Material	Weight
430.1187	10	M22x1,5x14	24	810
430.2187	25	M22x1,5x14	24	2025

Suitable seal ring:



Copper seal ring 33 x 22 x 1.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	Weight	
430.1501	10	33.0	22.0	1.0	40
430.2501	25	33.0	22.0	1.0	100



SMART FOR FOUR OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 24 mm

- External hexagon
- Without seal ring



Content			
430.1025	10	M14x1,5x24	13 370
430.2025	25	M14x1,5x24	13 925

Suitable seal ring:



Copper seal ring 18 x 14 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1503	10	18.0	14.0	1.5 10
430.2503	25	18.0	14.0	1.5 25

SUBARU OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1026	10	M14x1,5x13	17 320
430.2026	25	M14x1,5x13	17 800

Suitable seal ring:



Japan seal ring 19 x 14 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1518	10	19.0	14.0	2.0 20
430.2518	25	19.0	14.0	2.0 50

Oil drain plug, M20 x 1.5 x 15 mm

- External hexagon
- Without seal ring



Content			
430.1191	10	M20x1,5x15	17 620
430.2191	25	M20x1,5x15	17 1550

Suitable seal ring:



Japan seal ring 26 x 20 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1519	10	26.0	20.0	2.0 20
430.2519	25	26.0	20.0	2.0 50

SUZUKI OIL DRAIN PLUG

Oil drain plug, M14 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1026	10	M14x1,5x13	17 320
430.2026	25	M14x1,5x13	17 800

Suitable seal ring:



Copper seal ring 20 x 14 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1505	10	20.0	14.0	1.5 20
430.2505	25	20.0	14.0	1.5 50

Oil drain plug, M14 x 1.5 x 10.5 mm

- Torx
- With seal ring



Content			
430.1137	10	M14x1,5x10,5	T45 240
430.2137	25	M14x1,5x10,5	T45 600

Suitable seal ring:



NBR seal ring 22 x 18 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1528	10	22.0	18.0	2.0 10
430.2528	25	22.0	18.0	2.0 25

TOYOTA OIL DRAIN PLUG

Oil drain plug M12 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content			
430.1012	10	M12x1,25x13	14 250
430.2012	25	M12x1,25x13	14 625

Suitable seal ring:



Soft seal ring 24 x 12 x 2.1 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1527	10	24.0	12.0	2.1 20
430.2527	25	24.0	12.0	2.1 50

Oil drain plug, M18 x 1.5 x 11.5 mm

- External hexagon
- Without seal ring



Content		KS TOOLS		KS TOOLS	
430.1018	10	M18x1,5x11,5	24	590	
430.2018	25	M18x1,5x11,5	24	1475	

Suitable seal ring:



Soft seal ring 28 x 18 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	KS TOOLS
430.1532	10	28.0	18.0	2.0	15
430.2532	25	28.0	18.0	2.0	35

VOLVO OIL DRAIN PLUG

Oil drain plug M10 x 1.25 x 13 mm

- External hexagon
- Without seal ring



Content		KS TOOLS		KS TOOLS	
430.1015	10	M10x1,25x13	21	180	
430.2015	25	M10x1,25x13	21	450	

Suitable seal ring:



Copper seal ring 20 x 10 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	KS TOOLS
430.1508	10	20.0	10.0	2.0	40
430.2508	25	20.0	10.0	2.0	100

Oil drain plug, M14 x 1.5 x 13 mm

- External hexagon
- Without seal ring



Content		KS TOOLS		KS TOOLS	
430.1026	10	M14x1,5x13	17	320	
430.2026	25	M14x1,5x13	17	800	

Suitable seal ring:



Japan seal ring 19 x 14 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	KS TOOLS
430.1518	10	19.0	14.0	2.0	20
430.2518	25	19.0	14.0	2.0	50

Oil drain plug M16 x 1.5 L= 13 mm

- Internal square
- Without seal ring



Content		KS TOOLS		KS TOOLS	
430.1041	10	M16x1,5x13	8	220	
430.2041	25	M16x1,5x13	8	550	

Suitable seal ring:



Filling ring 22 x 16 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	KS TOOLS
430.1521	10	22.0	16.0	2.0	10
430.2521	25	22.0	16.0	2.0	25

Oil drain plug, M14 x 1.5 x 21 mm

- External hexagon
- Without seal ring



Content		KS TOOLS		KS TOOLS	
430.1064	10	M14x1,5x21	13	570	
430.2064	25	M14x1,5x21	13	1425	

Suitable seal ring:



NBR seal ring 22 x 13 x 3.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	KS TOOLS
430.1530	10	22.0	13.0	3.0	10
430.2530	25	22.0	13.0	3.0	25

Oil drain plug, M18 x 1.5 x 11 mm

- External hexagon
- Without seal ring



Content		KS TOOLS		KS TOOLS	
430.1208	10	M18x1,5x11	25	460	
430.2208	25	M18x1,5x11	25	1150	

Suitable seal ring:



Copper seal ring 26 x 19 x 2.0 mm

Content		Outer Ø mm	Inner Ø mm	Thickness mm	KS TOOLS
430.1507	10	26.0	19.0	2.0	40
430.2507	25	26.0	19.0	2.0	100

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Oil drain plug, M18 x 1.5 x 18 mm

- External hexagon
- Without seal ring



Content			
430.1211	10	M18x1,5x18	17
430.2211	25	M18x1,5x18	17

Suitable seal ring:


Aluminium seal ring 24 x 18 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1515	10	24.0	18.0	1.5
430.2515	25	24.0	18.0	1.5

Oil drain plug, M14 x 1.25 x 12 mm

- Internal hexagon
- Without seal ring



Content			
430.1067	10	M14x1,25x12	8
430.2067	25	M14x1,25x12	8

Suitable seal ring:


Filling ring 20 x 14 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1520	10	20.0	14.0	2.0
430.2520	25	20.0	14.0	2.0

VOLKSWAGEN OIL DRAIN PLUG
Oil drain plug, M14 x 1.5 x 17.5 mm

- External hexagon
- With seal ring



Content			
430.1027	10	M14x1,5x17,5	19
430.2027	25	M14x1,5x17,5	19

Oil drain plug, M14 x 1.5 x 12 mm

- External hexagon
- Without seal ring



Content			
430.1136	10	M14x1,5x12	19
430.2136	25	M14x1,5x12	19

Suitable seal ring:


Copper seal ring 20 x 14 x 1.5 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1505	10	20.0	14.0	1.5
430.2505	25	20.0	14.0	1.5

Oil drain plug, M14 x 1.5 x 22 mm

- External hexagon
- Without seal ring



Content			
430.1222	10	M14x1,5x22	19
430.2222	25	M14x1,5x22	19

Suitable seal ring:


Filling ring 20 x 14 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1520	10	20.0	14.0	2.0
430.2520	25	20.0	14.0	2.0

Oil drain plug, M26 x 1.5 x 16 mm

- External hexagon
- Without seal ring



Content			
430.1139	10	M26x1,5x16	17
430.2139	25	M26x1,5x16	17

Suitable seal ring:


Copper seal ring 31 x 26 x 2.0 mm

Content	Outer Ø mm	Inner Ø mm	Thickness mm	
430.1535	10	31.0	26.0	2.0
430.2535	25	31.0	26.0	2.0



OIL SUMP TOOL

Oil sump socket for hexagon-screws with ball end

- Ideally suited for assembly and disassembly of securing screws on the oil sump
- Ball end hexagon socket
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Extra-long design
- Matt finish
- Chrome vanadium

Application range: Volkswagen T4, etc.



	mm	mm	mm	
917.3858	5,0	17,5	215,0	79

Oil sump socket for RIBE screws

- Ideally suited for assembly and disassembly of securing screws on the oil sump
- RIBE profil
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Extra-long design
- With sand blasted bit insert
- Matt finish
- Chrome vanadium

Application range: Opel, etc.



	mm	mm	mm	
917.3859	7,0	17,5	210,0	103
917.3866	8,0	17,5	265,0	127

ERGOTORQUEplus® T handle RIBE profile xtra long

- Extra-long design
- For assembly and disassembly of the oil sump
- Without this wrench the oil sump must be removed from the transmission on Opel vehicles
- With 2 component handle
- Continuous hardened
- Chrome plated and mirror polished
- Special steel

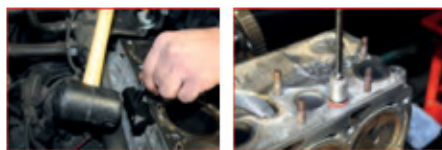
Application range: for assembly and disassembly of the oil sump on Opel, Fiat, Alfa Romeo, Suzuki and Saab vehicles



		L1 mm	L2 mm	
158.5121	M4	280,0	250,0	100
158.5122	M5	280,0	250,0	100
158.5123	M6	280,0	250,0	100
158.5124	M7	280,0	250,0	130
158.5125	M8	280,0	250,0	145
158.5126	M9	280,0	250,0	145
158.5127	M10	290,0	250,0	316

Oil sump and cleaning set

- Ideally suited for removing tough oil sumps
- Light, easy and correct usage
- Not dependant on direction
- Includes cleaning disks with holder
- With two different cutting knives
- Robust design
- In durable plastic storage case



150.1585	20 pcs	Oil sump and cleaning set	385	

consists of:

150.1541	Cutting knife holder	115	
150.1542	Cutting knife, 1,6 mm, black	19	
150.1543	Cutting knife, 2,0 mm, gold	21	
150.1586	Guide pin	24	
150.1587	Cleaning disk holder	44	
150.1588	Cleaning disc set, 15 pcs	30	
151.26025	Internal hexagon angled pin wrench, short, 2,5 mm	10	

TRANSMISSION OIL COOLANT TOOL

Release pins for transmission oil cooler pipes

- Ideally suited for disconnecting pipe connections on the transmission oil coolant and the coolant loop to the power steering
- Necessary for work on the transmission of oil cooler
- Screwed in support brackets
- 5-stage adjustment
- With two component handle
- Chrome vanadium

Application range: BMW 1 series (E81, 82, 87, 88), 3 series (E46, 90, 91, 92, 93), 5 series (E60, E61), 6 series (E64, 63), 7 series (E65, 66), X3 (E83), X5 (E53, 70), X6 (E71), Z4 (E85, 86) and Mini (R50, 52, 53)



	Length mm	Acch mm	Height mm	
115.8504	134,0	220,0	55,0	360



OIL DRAIN PLUG THREAD REPAIRER

Oil drain plug seal seat face milling cutter set

- Tool for facing the seal seat of oil drain plugs
- Facing of the seal seat ensures reliable sealing in the area of the oil drain plug
- Exact centering and alignment of the sealing surface
- Set includes adaption for original oil drain plug and oversize threaded repair plug
- In durable plastic storage case



150.1485	6 pcs	Oil drain plug seal seat face milling cutter set	700	

consists of:

150.1486	3/8" seal place cutter 0°, Ø 22 mm with bore hole	147	
150.1488	Expansion thread M14 x 1.5 to 150.1485	12	
150.1489	Expansion thread M15 x 1.5 to 150.1485	14	
150.1490	Pilot to 150.1485	25	
150.1492	4 mm wrench to 150.1485	25	
150.1493	8 mm wrench to 150.1485	36	

accessories:

150.1494	Milling cutter 24 mm optional to 150.1485	208	
150.1487	Toggle lever to 150.1485	36	



Oil drain plug repair kit M12 x 1,5

- For the solid and fast repair of oil sump plug screw threads
- The damaged thread is cut down to M12 x 1.5 with the thread cutter
- Also suited for aluminium oil sumps
- Allows for repair work and avoids replacing the oil sump
- Also suitable for oil sumps with recessed drainage openings
- Special steel
- In durable plastic storage case

Application range: BMW, Citroën, Land Rover, Mazda, Peugeot, Volvo

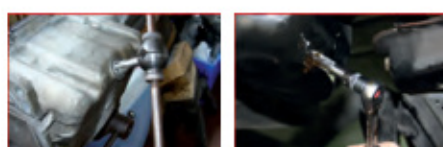


150.4915	12 pcs	Oil drain plug repair kit M12 x 1,5	280
5 x		M12 x 1,5	(150.1461 = 10 x)
5 x		M12 x 1,5	(150.1484 = 25 x)
1 x		M12 x 1,5	(150.4918)
1 x		10mm x 3/8"	(150.4919)

Oil drain plug repair kit M15 x 1,5

- For the solid and fast repair of oil sump plug screw threads
- The damaged thread is cut down to M15 x 1.5 with the thread cutter
- Also suited for aluminium oil sumps
- Allows for repair work and avoids replacing the oil sump
- Also suitable for oil sumps with recessed drainage openings
- Special steel
- In durable plastic storage case

Application range: Audi, BMW, Chrysler, Citroën, Daewoo, Ford, Honda, Mercedes, Opel, Peugeot, Saab, Škoda, Suzuki, Volkswagen, Volvo

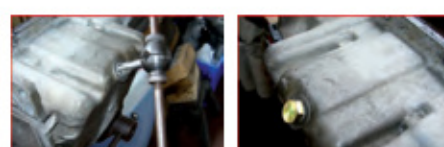


150.4925	12 pcs	Oil drain plug repair kit M15 x 1,5	340
5 x		M15 x 1,5	(150.1451 = 10 x)
5 x		M15 x 1,5	(150.1452 = 25 x)
1 x		M15 x 1,5	(150.1453)
1 x		10mm x 3/8"	(150.4919)

Oil drain plug repair kit M18 x 1,5

- For the solid and fast repair of oil sump plug screw threads
- The damaged thread is cut down to M18 x 1.5 with the thread cutter
- Also suited for aluminium oil sumps
- Allows for repair work and avoids replacing the oil sump
- Also suitable for oil sumps with recessed drainage openings
- Special steel
- In durable plastic storage case

Application range: Chrysler, Citroën, Dacia, Nissan, Peugeot, Renault, Volvo



150.4935	12 pcs	Oil drain plug repair kit M18 x 1,5	360
5 x		M18 x 1,5	(150.1463 = 10 x)
5 x		M18 x 1,5	(150.1497 = 25 x)
1 x		M18 x 1,5	(150.4938)
1 x		10mm x 3/8"	(150.4919)

Oil drain plug repair kit M14 x 1,5

- For the solid and fast repair of oil sump plug screw threads
- The damaged thread is cut down to M14 x 1.5 with the thread cutter
- Also suited for aluminium oil sumps
- Allows for repair work and avoids replacing the oil sump
- Also suitable for oil sumps with recessed drainage openings
- Special steel
- In durable plastic storage case

Application range: Alfa Romeo, BMW, Daihatsu, Fiat, Ford, Jeep, Lancia, Mazda, Lexus, Mercedes, Opel, Nissan, Saab, Toyota

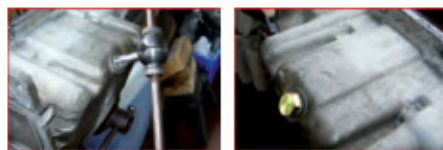


150.4920	12 pcs	Oil drain plug repair kit M14 x 1,5	320
5 x		M14 x 1,5	(150.1462 = 10 x)
5 x		M14 x 1,5	(150.1496 = 25 x)
1 x		M14 x 1,5	(150.4923)
1 x		10mm x 3/8"	(150.4919)

Oil drain plug repair kit M17 x 1,5

- For the solid and fast repair of oil sump plug screw threads
- The damaged thread is cut down to M17 x 1.5 with the thread cutter
- Also suited for aluminium oil sumps
- Allows for repair work and avoids replacing the oil sump
- Also suitable for oil sumps with recessed drainage openings
- Special steel
- In durable plastic storage case

Application range: Chrysler, Citroën, Dacia, Nissan, Peugeot, Renault, Volvo

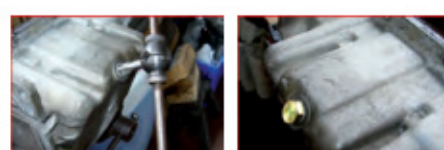


150.4930	12 pcs	Oil drain plug repair kit M17 x 1,5	330
5 x		M17 x 1,5	(150.1454 = 10 x)
5 x		M17 x 1,5	(150.1455 = 25 x)
1 x		M17 x 1,5	(150.4956)
1 x		10mm x 3/8"	(150.4919)

Oil drain plug repair kit M20 x 1,5

- For the solid and fast repair of oil sump plug screw threads
- The damaged thread is cut down to M20 x 1.5 with the thread cutter
- Also suited for aluminium oil sumps
- Allows for repair work and avoids replacing the oil sump
- Also suitable for oil sumps with recessed drainage openings
- Special steel
- In durable plastic storage case

Application range: Alfa Romeo, Fiat, Isuzu, Opel, Porsche, Renault, Saab, Toyota, Volvo



150.4940	12 pcs	Oil drain plug repair kit M20 x 1,5	400
5 x		M20 x 1,5	(150.1457 = 10 x)
5 x		M20 x 1,5	(150.1458 = 25 x)
1 x		M20 x 1,5	(150.4959)
1 x		10mm x 3/8"	(150.4919)

Oil drain plug repair kit M22 x 1,5

- For the solid and fast repair of oil sump plug screw threads
- The damaged thread is cut down to M22 x 1.5 with the thread cutter
- Also suited for aluminium oil sumps
- Allows for repair work and avoids replacing the oil sump
- Also suitable for oil sumps with recessed drainage openings
- Special steel
- In durable plastic storage case

Application range: Citroën, Peugeot, Subaru

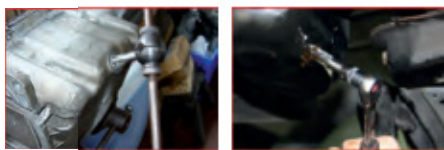


150.4945			
12 pcs	Oil drain plug repair kit M22 x 1,5	460	
5 x		M22 x 1,5 (150.1464 = 10 x)	
5 x		M22 x 1,5 (150.1498 = 25 x)	
1 x		M22 x 1,5 (150.4948)	
1 x		10mm x 3/8" (150.4919)	

Oil drain plug repair kit M24 x 1,5

- For the solid and fast repair of oil sump plug screw threads
- The damaged thread is cut down to M24 x 1.5 with the thread cutter
- Also suited for aluminium oil sumps
- Allows for repair work and avoids replacing the oil sump
- Also suitable for oil sumps with recessed drainage openings
- Special steel
- In durable plastic storage case

Application range: Alfa Romeo, BMW, Fiat, Lada, Lancia, Opel, Porsche, Renault, Saab



150.4950			
12 pcs	Oil drain plug repair kit M24 x 1,5	580	
5 x		M24 x 1,5 (150.1465 = 10 x)	
5 x		M24 x 1,5 (150.1499 = 25 x)	
1 x		M24 x 1,5 (150.4953)	
1 x		10mm x 3/8" (150.4919)	

Master oil drain plug thread repair set

- To the solid and fast repair of oil sump plug screw threads
- The damaged thread is cut to a larger thread by drilling with the next size drill
- Also suited for aluminium oil sumps
- Repair enables and avoids exchange of the oil sump
- Also suitable for oil sumps with damaged threads
- Special steel
- In durable plastic storage case

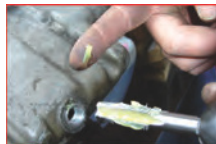
Application range: Audi, Citroen, BMW, Mercedes Benz, Ford, Fiat, Honda, Mazda, Mitsubishi, Nissan, Opel, Peugeot, Porsche, Renault, Saab, Seat, Skoda, Toyota, Volvo, Volkswagen, etc.



150.1450			
64 pcs	Master oil drain plug thread repair set	950	
40 x		10 x M13 - 10 x M15 - 10 x M17 - 10 x M20	
4 x		M13 - M15 - M17 - M20	
20 x		5 x M13 - 5 x M15 - 5 x M17 - 5 x M20	

HSS special hand thread cutter for oil drain plug thread repair

- For the solid and fast repair of oil sump plug screw threads
- The damaged thread is cut down to the next biggest size with the thread cutter
- In accordance to DIN 352
- For through threads with relief-edges
- Surface without discolouration
- High performance steel



		mm	mm	Content	
150.4918	M12	1,5	10,0	1	46
150.1449	M13	1,5	10,0	1	40
150.4923	M14	1,5	10,0	1	58
150.1453	M15	1,5	10,0	1	50
150.1456	M17	1,5	10,0	1	60
150.4938	M18	1,5	10,0	1	89
150.1459	M20	1,5	10,0	1	70
150.4948	M22	1,5	10,0	1	143
150.4953	M24	1,5	10,0	1	151

Oil drain plug

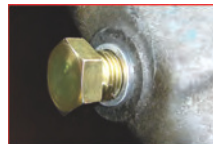
- For oil sump threads
- Suitable for oil sumps made from aluminium, steel, die cast and metal
- Suitable for almost all vehicles



Art. No.	Thread	Profile	Material	Content	Weight
150.1461	M12	1,5	17,0	10	220
150.1447	M13	1,5	17,0	10	300
150.1462	M14	1,5	19,0	10	290
150.1451	M15	1,5	19,0	10	320
150.1454	M17	1,5	8,0	10	360
150.1463	M18	1,5	8,0	10	290
150.1457	M20	1,5	10,0	10	390
150.1464	M22	1,5	12,0	10	420
150.1465	M24	1,5	14,0	10	600

Aluminium seals for oil drain plug

- For the exchange after the oil change
- Also necessary for oil sump plug repairs
- Aluminium
- Suitable for almost all vehicles



Content			
Art. No.	Thread	Quantity	Weight
150.1484	M12	25	10
150.1448	M13	25	10
150.1496	M14	25	10
150.1452	M15	25	10
150.1455	M17	25	10
150.1497	M18	25	10
150.1458	M20	25	10
150.1498	M22	25	10
150.1499	M24	25	10

OIL FILTER TENSION WRENCH

Oil filter band wrench

- Ideally suited for the installation and removal of filters and filter cartridges
- One hand operation
- Fully adjustable
- Also for hard-to-reach filter housing
- Adjustment on the filter width measure by turning the knob on the end of the handle
- Dimpled spring steel band gives a secure mounting on the filter and provides a powerful wrench releasing of the filter



	mm	Replacement band	Weight
155.5002	65,0-110,0	155.0238	241
155.5003	110,0-155,0	155.0338	450

Oil filter band wrench

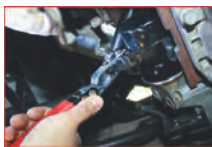
- Ideally suited for the installation and removal of filter and filter cartridges
- One hand operation
- Fully adjustable
- Also for hard-to-reach filter housing
- Adjustment on the filter with measure by turning the knob on the end of the handle
- Dimpled spring steel band gives a secure mounting on the filter and provides a powerful wrench releasing of the filter
- Ergonomic handle shape



Ø mm	External length mm	Handle length mm	Weight
155.5005	65,0-105,0	540,0	297

Oil filter band wrench

- Ideally suited for the installation and removal of filter and filter cartridges
- One hand operation
- Fully adjustable
- Also for hard-to-reach filter housing
- Handle can also be turned 90° via the turning joint
- Grooves give a secure mounting on the filter and provides a powerful wrench releasing of the filter
- PVC dipped handle



Ø mm	Weight
150.9377	350
150.9378	360
150.9379	370

Oil filter band wrench

- Ideally suited for the installation and removal of filter and filter cartridges
- One hand operation
- Fully adjustable
- Also for hard-to-reach filter housing
- Strap made from hardened non-slip rubber gives a secure mounting on the filter and provides a powerful wrench releasing of the filter
- With glass fibre hardened handle



Ø mm	L mm	Weight
114.0150	110,0	180

Oil filter band wrench

- Ideally suited for the removal of filter and filter cartridges
- One hand operation
- Fully adjustable
- Also for hard-to-reach filter housing
- Anti-slip and secured-rubber cotton fabric band gives a secure mounting on the filter and provides a powerful wrench releasing of the filter
- With metal grip
- Chrome plated
- Chrome vanadium



Ø mm	Ø mm	Ø mm	L mm	Replacement band	Weight
114.0170	20,0	140,0	9/64" 220,0	114.0170-1	323
114.0171	25,0	200,0	13/64" 280,0	114.0171-1	590

Oil filter band wrench

- Sturdy and extra high steel band
- Ideally suited for the installation and removal of filter and filter cartridges
- Internal square drive to DIN 3120 - ISO 1174
- Also for hard-to-reach filter housing
- Especially large working area
- Grooves give a secure mounting on the filter and provides a powerful wrench releasing of the filter
- Special steel



Ø mm	Ø mm	H mm	Weight
455.0050	105 - 118	4,1/8" - 4,21/32"	75,0
455.0051	118 - 130	4,21/32" - 5,5/32"	75,0
455.0052	130 - 143	5,5/32" - 5,21/32"	75,0

Oil filter and air dryer cartridge chains wrench

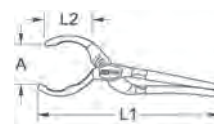
- Extremely robust double tension chain
- Ideally suited for the installation and removal of filter, filter cartridges and air dryer cartridges
- One hand operation
- Fully adjustable
- Also for hard-to-reach filter housing
- Handle can also be turned 90° via the turning joint
- Double tension chain gives a secure mounting on the filter and provides a powerful wrench releasing of the filter
- PVC dipped handle



Ø mm	Weight
150.9375	380
150.9376	380

Oil filter pliers

- Forged, extremely robust execution
- Toughened teeth prevent slips
- Ideally suited for the installation and removal of filter and filter cartridges
- One hand operation
- With 5 levels of adjustment
- Also for hard-to-reach filter housing
- Special griffin teeth give a secure mounting on the filter and provides a powerful wrench releasing of the filter
- Special tool steel
- PVC dipped handle



A mm	L1 mm	L2 mm	Weight
150.9317	50-125	290,0	110,0

Universal oil filter wrench

- Fully adjustable with self-tensioning effect
- The special automatic left and right side adjustment mechanism allows for the releasing and tightening of different sizes oil filters
- Left-toothed jaws for a better hold when releasing
- Ideally suited for the installation and removal of filter and filter cartridges
- Internal square drive to DIN 3120 - ISO 1174
- Also for hard-to-reach filter housing
- Special toughened griffin teeth give a secure mounting on the filter and provides a powerful wrench releasing of the filter
- Forged, extremely robust execution
- Special steel



Ø mm	D mm	H mm	Weight
700.5005	21	60 - 80	40,0
700.5006	22	80 - 110	50,0

Oil filter tension wrench

- Fully adjustable
- The special automatic left and right side adjustment mechanism makes possible the releasing and tightening of different sizes oil filters
- Ideally suited for the installation and removal of filter and filter cartridges
- Internal square drive to DIN 3120 - ISO 1174
- Also for hard-to-reach filter housing
- Specially angled surface areas give a secure mounting on the filter and provides a powerful wrench releasing of the filter
- Sheet construction
- Painted surface



Ø mm	Ø mm	Weight
150.9313	21	63,0-102,0
150.9314	21	65,0-120,0

Oil filter wrench and air dryer cartridge wrench

- Fully adjustable
- The special automatic left and right side adjustment mechanism makes possible the releasing and tightening of different sizes oil filters
- Ideally suited for the installation and removal of filters and filter cartridges and air dryer cartridges
- Internal square drive to DIN 3120 - ISO 1174
- Also for hard-to-reach filter housing
- Specially chequered and hardened surface areas give a secure mounting on the filter and provides a powerful wrench releasing of the filter
- Forged, extremely robust execution
- Special steel



	mm	Ø mm	g
700.5001	24	80 - 120	0.63
700.5002	30	105 - 165	1.40

SPECIAL OIL FILTER WRENCH

Oil filter wrench for Ford, Jaguar, Citroën, Peugeot Duratorq TDCi/HDI twin cam diesel engines

- Ideally suited for installation and removal of hard to reach oil filter covers when changing the oil filter unit
- 12-point
- Perfectly suited for tight installation areas
- Suitable for left and right side operation
- Correct and torque controlled assembly
- Special socket
- Internal square drive to DIN 3120 - ISO 1174
- Chrome vanadium

Application range:
(DW10C) Citroën, Ford, Peugeot 2.0 L Duratorq-TDCi/HDI: Peugeot 308 2.0 HDi 163cv (> 2011), 3008 2.0 16v HDi 163CV (> July 2009), 5008 2.0 HDi 163CV (> December 2009), 407 2.0 HDi 163 CV (2010-2011), 407 Coupé 2.0 HDi 163 CV (2009-2012), 508 2.0 HDi 163CV (> 10/2010), RCZ 2.0 HDi (> April 2010), Citroën C4 Picasso 2.0 HDi 16v 163CV aut. (> 09/2010), C5 2.0 16v HDi (> 2010), C8 2.0 HDi (> 2010), DS4 2.0 HDi (> 2011), DS5 2.0 HDi (> 2011), Ford Mondeo Mk3 2.0 TDCi 163 CV (> 2010), C-Max/C-Max 2.0 TDCi 163CV (> 2010), Galaxy Mk3 2.0 TDCi 163 CV (> 2010), S-Max 2.0 TDCi 163 CV (> 2010), Kuga 2.0 TDCi (> 2010)

(DW12C) Citroën, Ford, Jaguar 2.2 L Duratorq-TDCi/HDI: Citroën C5 Mk2 2.2 HDi (> 10/2010), 508 2.2 HDi GT (> 10/2010), Ford Mondeo Mk3 2.2 TDCi (> 12/2010), Galaxy Mk2 2.2 TDCi (> 2010), S-Max 2.2 TDCi (> 2010), Jaguar XF 2.2D Sportbrake (> 2012)



	mm	L mm	g
150.9306	27	245.0	400

Oil filter wrench for Ford, Jaguar, Citroën, Peugeot Duratorq TDCi/HDI twin cam diesel engines

- Ideally suited for installation and removal of hard to reach oil filter covers when changing the oil filter unit
- 12-point
- With ratchet function
- External drive hexagonal socket 13 mm
- Perfectly suited for tight installation areas
- Suitable for left and right side operation
- Correct and torque controlled assembly
- Special socket
- Chrome vanadium

Application range:
(DW10C) Citroën, Ford, Peugeot 2.0 L Duratorq-TDCi/HDI: Peugeot 308 2.0 HDi 163cv (> 2011), 3008 2.0 16v HDi 163CV (> July 2009), 5008 2.0 HDi 163CV (> December 2009), 407 2.0 HDi 163 CV (2010-2011), 407 Coupé 2.0 HDi 163 CV (2009-2012), 508 2.0 HDi 163CV (> 10/2010), RCZ 2.0 HDi (> April 2010), Citroën C4 Picasso 2.0 HDi 16v 163CV aut. (> 09/2010), C5 2.0 16v HDi (> 2010), C8 2.0 HDi (> 2010), DS4 2.0 HDi (> 2011), DS5 2.0 HDi (> 2011), Ford Mondeo Mk3 2.0 TDCi 163 CV (> 2010), C-Max/C-Max 2.0 TDCi 163CV (> 2010), Galaxy Mk3 2.0 TDCi 163 CV (> 2010), S-Max 2.0 TDCi 163 CV (> 2010), Kuga 2.0 TDCi (> 2010)

(DW12C) Citroën, Ford, Jaguar 2.2 L Duratorq-TDCi/HDI: Citroën C5 Mk2 2.2 HDi (> 10/2010), 508 2.2 HDi GT (> 10/2010), Ford Mondeo Mk3 2.2 TDCi (> 12/2010), Galaxy Mk2 2.2 TDCi (> 2010), S-Max 2.2 TDCi (> 2010), Jaguar XF 2.2D Sportbrake (> 2012)



	mm	Length mm	g
150.9446	27	410.0	980

Oil filter wrench for Opel and Vauxhall petrol engines

- Ideally suited for installation and removal of hard to reach oil filter covers when changing the oil filter unit
- 12-point
- Perfectly suited for tight installation areas
- Suitable for left and right side operation
- Correct and torque controlled assembly
- Special socket
- Internal square in accordance with DIN 3120/ISO 1174
- Chrome vanadium

Application range: for Opel and Vauxhall 2.0 l and 2.2 l petrol engines, e.g. Opel Astra G and H, Vectra B, Vectra C, Speedster, Zafira A and B, Omega B, Signum, Insignia, etc.



	mm	Length mm	g
150.9444	32	140.0	340



Oil filter wrench Ø 76 mm / 12 grooves

- Ideally suited for installation and removal of hard to reach oil filter covers when changing the oil filter unit
- One hand operation
- Suitable for left and right side operation
- Special socket
- Long handle for optimal force
- PVC dipped handle
- Chrome vanadium

Application range: Ford with 1.8 l diesel engine and Motocraft filter EFL 344/Peugeot with Purflux filter/Renault petrol engines, e.g. R5, Twingo, Rapid, Clio, Kangoo, Laguna, Megane, Traffic with the filter numbers 77 00 873 and 77 00 720 978/ Honda Prelude BA4 2.0 16V/ Land Rover Defender 2.5 l Diesel (DD5) with filter number LPX 100 590



	Ø mm	Grooves	Length mm	g
150.9308	76.0	12	330.0	400

Oil filter wrench for Haldex transmission

- For quick and correct assembly and disassembly of the hard to reach oil filter on the Haldex transmission
- 12-point
- Matt finish
- Chrome vanadium

Application range: Volkswagen Golf/Passat/Sharan/Caddy/Tiguan/Transporter T5 (4MOTION Models), Škoda Yeti/Octavia II/Superb II with all-wheel transmission shift



	mm	L mm	g
150.2098	46.0	390.0	770

Oil filter wrench for Audi / Volkswagen

- For the quick and correct assembly and disassembly of the hard to reach oil filter
- Suitable for Mann, Knecht or Mahle filters
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Forged execution
- Matt finish
- Chrome vanadium

Application range: Audi, Volkswagen diesel engines with MANN oil or fuel filter W 920, W 920/7, W 930, W 930/9, W 940, W 940/15, W 940/20, W 940/25, W 950, W 950/1, W 950/5, W 962/2, W 962/7, W 962/14, W 1130/1, WK 940/4, WK 950/4, WK 962/5, WP 931 and WP 962/3, as well as KNECHT and MAHLE oil filters: OC 51, OC 83 and OC 214



	mm	Ø mm	Height mm	g
150.9259	22.0	49.5	24.0	113

Oil filter cover wrench overview

article-no.	dimension	stages	grooves	sides
150.9366	27	1		6
150.9217	27			6
150.9367	32	1		6
150.9218	32			6
150.9368	36	1		6
150.9219	36			6
150.9291	36	1		6
150.9319	64	1		14
150.9211	64,5	1		14
150.9212	64,5	1		14
150.9321	65	1		14
150.9330	65/67	2		14
150.9336	66	1	6	
150.9408	66	1	18	
150.9411	66,5	1	45	
150.9322	68	1		14
150.9304	72	1		14
150.9323	73	1		14
150.9309	73	1		10
150.9337	74	1		15
150.9292	74	1		14
150.9311	74	1	30	
150.9324	74/76	2		15
150.9215	74,2	1		14
150.9412	75	1	16	
150.9333	75/77	2		15
150.9325	76	1		14
150.9338	76	1	12	
150.9339	76	1	8	
150.9334	76	1	30	
150.9406	76	1	6	
150.9341	78	1		15
150.9318	79	1		15
150.9326	80	1		15
150.9331	80/82	2		15
150.9342	86	1		18
150.9343	86	1		16
150.9214	86,6	1		16
150.9413	87	1	16	
150.9213	88,8	1		15
150.9332	90	1		15
150.9369	91	1		15
150.9423	91	1	12	
150.9344	92	1		10
150.9374	92	1	36	
150.9428	92	1	6	
150.9327	93	1		15
150.9345	93	1	45	
150.9329	93	1	36	
150.9346	95	1	15	
150.9347	96	1	18	
150.9429	96	1	6	
150.9381	99	1		15
150.9335	100	1		15
150.9382	103	1		14
150.9348	106	1		15
150.9293	106	1		15
150.9294	107	1		15
150.9349	108	1		15
150.9351	108	1	18	
150.9295	108	1		15
150.9296	108	1	18	
150.9383	109	1	6	
150.9297	135	1		18

OIL FILTER CAP WRENCH

Oil filter wrench Ø 27.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- External drive hexagonal socket 21.0 mm
- For manual operation
- Painted surface

Application range: Mercedes, Mazda, etc.



Oil filter wrench Ø 27.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Forged execution
- Matt finish
- Chrome vanadium

Application range: Mercedes, Smart, etc.



Oil filter wrench Ø 32.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- External drive hexagonal socket 21.0 mm
- For manual operation
- Painted surface

Application range: Volkswagen, Opel, Audi, etc.



Oil filter wrench Ø 32.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Forged execution
- Matt finish
- Chrome vanadium

Application range: Opel, Mercedes, GM, etc.



Oil filter wrench Ø 36.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- External drive hexagonal socket 21.0 mm
- For manual operation
- Painted surface

Application range: Mercedes, BMW, Ford, Volkswagen, Rover, Opel, etc.



Oil filter wrench Ø 36.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Forged execution
- Matt finish
- Chrome vanadium

Application range: BMW, Mini, Volkswagen, Mercedes, Ford, etc.



Oil filter wrench Ø 36.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Mercedes, BMW, Opel, Volkswagen, Audi



Oil filter wrench Ø 64.0 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Toyota, Nissan, Mazda, Fiat, Daihatsu, etc.



Oil filter wrench Ø 64.5 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Toyota, Lexus (6 cylinder), etc.



Oil filter wrench Ø 64.5 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Toyota Auris, Corolla, Isis, Prius, etc.


	mm	Stages	Slots	kg
150.9212	64,5	1	14	144

Oil filter wrench Ø 66.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Fiat, Renault


	mm	Stages	Slots	kg
150.9336	66	1	6	190

Oil filter wrench Ø 68.0 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Mazda, Ford, Subaru, etc.


	mm	Stages	Slots	kg
150.9322	68	1	14	320

Oil filter wrench Ø 65.0 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Daihatsu, Toyota, Nissan, Fiat, Honda, etc.


	mm	Stages	Slots	kg
150.9321	65	1	14	150

Oil filter wrench Ø 66.0 mm / 18 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Renault, etc.


	mm	Stages	Slots	kg
150.9408	66	1	18	140

Oil filter wrench Ø 73.0 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Toyota, Lexus, etc.


	mm	Stages	Slots	kg
150.9323	73	1	14	150

Oil filter wrench Ø 65/0 + 67.0 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Daihatsu, Toyota, etc.


	mm	Stages	Slots	kg
150.9330	65/67	2	14	150

Oil filter wrench Ø 92.3 mm / 45 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Audi, Nissan, Volkswagen, etc.


	mm	Stages	Slots	kg
150.9411	92,3	1	45	220

Oil filter wrench Ø 73.0 mm / 10 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Alfa Romeo GTA


	mm	Stages	Slots	kg
150.9309	73,0	1	10	280

Oil filler wrench Ø 74.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Audi, GM, Rover, Chrysler, etc.

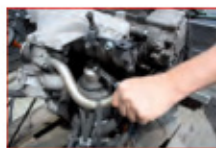


mm	Stages	Sides	kg	
150.9337	74	1	15	220

Oil filler wrench Ø 74.2 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Audi, BMW, Ford, Toyota, Volkswagen, Mercedes, Porsche (all models with V6+V8), etc.



mm	Stages	Sides	kg	
150.9215	74,2	1	14	172

Oil filler wrench Ø 76.0 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Volkswagen, Mercedes, Porsche, BMW, Audi, Opel, etc.



mm	Stages	Sides	kg	
150.9325	76	1	14	150

Oil filler wrench Ø 74.0 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Audi, BMW, Ford, Lancia, Mazda, Mercedes, Fiat, etc.



mm	Stages	Sides	kg	
150.9292	74,0	1	14	140

Oil filler wrench Ø 75.3 mm / 16 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Saab, Fiat, Alfa Romeo, etc.



mm	Stages	Grooves	kg	
150.9412	75,3	1	16	160

Oil filler wrench Ø 76.0 mm / 12 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Fiat, Renault, Mercedes, etc.



mm	Stages	Grooves	kg	
150.9338	76	1	12	190

Oil filler wrench Ø 74.0 + 76.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Ford, Opel, Volkswagen, Audi, Mercedes, etc.



mm	Stages	Sides	kg	
150.9324	74/76	2	15	170

Oil filler wrench Ø 75.0 + 77.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Volkswagen, Audi, Ford, Isuzu, Mercedes, Opel, etc.



mm	Stages	Sides	kg	
150.9333	75/77	2	15	150

Oil filler wrench Ø 76.0 mm / 8 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Fiat, Lancia, etc.



mm	Stages	Grooves	kg	
150.9339	76	1	8	170

Oil filler wrench Ø 76.0 mm / 30 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Ford, etc.


	mm	Stages	Grooves	mm
150.9334	76	1	30	150

Oil filler wrench Ø 80.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Nissan, Honda, Opel, Mazda, etc.


	mm	Stages	Grooves	mm
150.9326	80	1	15	150

Oil filler wrench Ø 86.0 mm / 16 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Volvo, etc.


	mm	Stages	Grooves	mm
150.9343	86	1	16	180

Oil filler wrench Ø 76.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Audi, Citroën, Ford, Mercedes, Honda, Renault, Suzuki, etc.


	mm	Stages	Grooves	mm
150.9406	76,0	1	6	220

Oil filler wrench Ø 80.0 + 82.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Subaru, Toyota, Honda, Mazda, Nissan, etc.


	mm	Stages	Grooves	mm
150.9331	80/82	2	15	150

Oil filler wrench Ø 86.6 mm / 16 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Volvo, BMW, etc.


	mm	Stages	Grooves	mm
150.9214	86,6	1	16	293

Oil filler wrench Ø 78.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Nissan, Ford, Toyota, etc.


	mm	Stages	Grooves	mm
150.9341	78	1	15	170

Oil filler wrench Ø 86.0 mm / 18 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Volkswagen, Audi, Renault, Peugeot, Citroën, etc.


	mm	Stages	Grooves	mm
150.9342	86	1	18	143

Oil filler wrench Ø 87.0 mm / 16 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

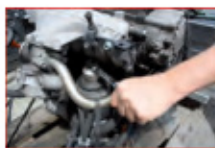
Application range: Volkswagen, Audi, Renault, Peugeot, Citroën, etc.


	mm	Stages	Grooves	mm
150.9413	87	1	16	240

Oil filter wrench Ø 88.8 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Hyundai, Kia, etc.



Part No.	Ø mm	Stages	Sides	Weight g
150.9213	88,8	1	15	289

Oil filter wrench Ø 92.0 mm / 10 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Fiat, Lancia, etc.



Part No.	Ø mm	Stages	Sides	Weight g
150.9344	92	1	10	180

Oil filter wrench Ø 93.0 mm / 45 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Volkswagen, Audi, etc.



Part No.	Ø mm	Stages	Discs	Weight g
150.9345	93	1	45	180

Oil filter wrench Ø 90.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Honda, Isuzu, Mitsubishi, etc.



Part No.	Ø mm	Stages	Sides	Weight g
150.9332	90	1	15	150

Oil filter wrench Ø 66.6 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Renault, etc.



Part No.	Ø mm	Stages	Grooves	Weight g
150.9428	66,6	1	6	140

Oil filter wrench Ø 93.0 mm / 36 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Ford, etc.



Part No.	Ø mm	Stages	Grooves	Weight g
150.9329	93	1	36	150

Oil filter wrench Ø 91.0 mm / 12 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Fiat Ducato, etc.



Part No.	Ø mm	Stages	Grooves	Weight g
150.9423	91	1	12	220

Oil filter wrench Ø 95.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Mazda, Volvo, Mitsubishi, Nissan, Honda, etc.



Part No.	Ø mm	Stages	Sides	Weight g
150.9327	93	1	15	150

Oil filter wrench Ø 95.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Toyota, Alfa Romeo, GM, Ford, Chrysler, etc.



Part No.	Ø mm	Stages	Grooves	Weight g
150.9346	95	1	15	190

Oil filter wrench Ø 96.0 mm / 18 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Volkswagen, Audi, Renault, etc.



1/2"

	mm	Stages	Grooves	mm
150.9347	96	1	18	190

Oil filter wrench Ø 103.0 mm / 14 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Opel, Renault, etc.



1/2"

	mm	Stages	Grooves	mm
150.9382	103	1	14	520

Oil filter wrench Ø 107.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Volvo, Iveco, Renault, Scania, etc.



1/2"

	mm	Stages	Grooves	mm
150.9294	107	1	15	360

Oil filter wrench Ø 96.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Renault, etc.



3/8"

	mm	Stages	Grooves	mm
150.9429	96	1	6	220

Oil filter wrench Ø 106.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Fiat, MAN, Scania, etc.



1/2"

	mm	Stages	Grooves	mm
150.9348	106	1	15	200

Oil filter wrench Ø 108.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Volvo, etc.



1/2"

	mm	Stages	Grooves	mm
150.9349	108	1	15	220

Oil filter wrench Ø 100.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Isuzu, Mitsubishi, etc.



1/2"

	mm	Stages	Grooves	mm
150.9335	100	1	15	150

Oil filter wrench Ø 106.0 mm / 15 grooves

- Ideally suited for installation and removal of hard to reach oil filter covers when changing the oil filter unit or the oil filter
- Use according to the manufacturer's specification for torque
- 1/2" internal square and external hexagon 21.0 mm
- Painted surface

Application range: Volkswagen, Mercedes, Porsche, BMW, Audi, Opel



1/2"

	mm	Stages	Grooves	mm
150.9293	106,0	1	15	200

Oil filter wrench Ø 108.0 mm / 18 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Renault, etc.



1/2"

	mm	Stages	Grooves	mm
150.9351	108	1	18	190

Oil filter wrench Ø 108.0 mm / 15 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range Volvo, Iveco, Renault, Scania, etc.



1/2"	mm	Stages	Slots	kg
150.9295	108,0	1	15	210

Oil filter wrench Ø 108.0 mm / 18 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range Renault, Opel, etc.



1/2"	mm	Stages	Grooves	kg
150.9296	108,0	1	18	210

Oil filter wrench Ø 109.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Fiat, Alfa Romeo, Lancia, Opel, etc. with 1,3L, 1,9L and 2,4L diesel engines



1/8"	mm	Stages	Grooves	kg
150.9383	109	1	6	380

Oil filter wrench Ø 135.0 mm / 18 grooves

- For the quick and professional installation and dismantling of the oil filter cover when changing the oil filter insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range MAN, etc.



1/2"	mm	Stages	Slots	kg
150.9297	135,0	1	18	510

OIL FILTER CAP WRENCH SET

Oil service wrench set for filter housing cover

- Ideally suited for installation and removal of hard to reach oil filter covers when changing the oil filter unit or the oil filter
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- External drive hexagonal socket 21.0 mm
- For manual operation
- Painted surface
- In durable plastic storage case

Application range: Audi, BMW, Mercedes, Volkswagen, Opel, etc.



1/4"	mm	Stages	Slots	kg
150.9365	3 pcs			320

consists of:

	Suitable for	mm	Slots	kg
150.9366	Mercedes Benz, Mazda	27	6	60
150.9367	VW, Audi, Opel	32	6	70
150.9368	Mercedes Benz, BMW, Ford, VW, Rover, Opel	35	6	80

Oil service wrench set for oil filter and filter housing covers

- Ideally suited for installation and removal of hard to reach oil filter covers when changing the oil filter unit or the oil filter
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- Includes universal oil filter tension wrench for all standard filters
- For manual operation
- Painted surface
- In durable plastic storage case

Application range: Audi, BMW, Ford, Mazda, Mercedes, Toyota, Lexus, Porsche, Kia, Volvo, Seat, Hyundai, Mini, Volkswagen, Opel, etc.



1/8"	mm	Stages	Slots	kg
150.9210	9 pcs			3.14

consists of:

	Suitable for	mm	Slots	kg
150.9211	Allion, Auris, Corolla, Prius, Vaux etc	64.5	14	169
150.9212	Toyota, Lexus (6 Zyl.)	64.5	14	144
150.9213	Hyundai, KIA	88.8	15	289
150.9214	BMW 3-5-X, Volvo	86.6	16	293
150.9215	Audi, BMW, Ford, Toyota, VW, Porsche, Mercedes Benz	74.2	14	172
150.9216	universal	53-83		378
150.9217	Mercedes, Smart	27	6	118
150.9218	GM, Opel, Mercedes	32	6	146
150.9219	Mercedes Diesel, BMW, Mini, Ford	35	6	188



Oil service set for oil filler and filler housing cover

- Ideally suited for installation and removal of hard to reach oil filler covers when changing the oil filler unit or the oil filler
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- External drive hexagonal socket 21.0 mm
- Includes 1/2" universal oil filler strap wrench
- For manual operation
- Painted surface
- In durable plastic storage case

Application range: Mercedes, MAN, Scania, Renault, Opel, Iveco, Volkswagen, etc.



150.9290	9 pcs	Oil service set for oil filler and filler housing cover	3.40
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consists of:

	Suitable for	mm	Discs	Sides	U
150.9291	Mercedes Benz, Scania	36,0	6	70	
150.9292	Audi, BMW, Ford, Lancia, Mazda, Mercedes Benz, Fiat	74,0	14	140	
150.9293	Volkswagen, Mercedes Benz, Porsche, BMW, Audi, Opel	106,0	15	200	
150.9294	Volvo, Iveco, Renault, Scania	107	15	360	
150.9295	Volvo, Iveco, Renault, Scania	108,0	15	210	
150.9296	Renault, Opel	108,0	18	210	
150.9297	MAN	135,0	18	510	
150.9298	Universal	160,0		140	
150.9299	Universal	24,0		270	



Oil service set for oil filler and filler housing cover

- Ideally suited for installation and removal of hard to reach oil filler covers when changing the oil filler unit or the oil filler
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- External drive hexagonal socket 21.0 mm
- For manual operation
- Painted surface
- In durable plastic storage case

Application range: BMW, Daihatsu, Ford, GM, Honda, Mazda, Mercedes, Opel, Porsche, Renault, Saab, Subaru, Toyota, Volkswagen, etc.



150.9320	15 pcs	Oil service set for oil filler and filler housing cover	2.83
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consists of:

	Suitable for	mm	Discs	Sides	U
150.9321	Daihatsu, Toyota, Nissan, Fiat, Honda	65	6	14	150
150.9322	Mazda, Ford, Subaru	68	14	320	
150.9323	Toyota, Lexus	73	14	150	
150.9324	Ford, Opel, VW, Audi, Mercedes Benz	74/76	15	170	
150.9325	VW, Mercedes Benz, Porsche, BMW, Audi, Opel	76	14	150	
150.9326	Nissan, Honda, Opel, Mazda	80	15	150	
150.9327	Mazda, Mitsubishi, Volvo, Nissan, Honda	93	15	150	
150.9329	Ford	93	36	150	
150.9330	Daihatsu, Toyota	65/67	14	150	
150.9331	Subaru, Toyota, Honda, Mazda, Nissan	80/82	15	150	
150.9332	Honda, Mitsubishi, Isuzu	90	15	150	
150.9333	VW, Audi, Ford, Isuzu, Mercedes Benz, Opel	75/77	15	150	
150.9334	Ford	76	30	150	
150.9335	Isuzu, Mitsubishi	100	15	150	
150.9340	Universal	21		153	

Oil service set for oil filler and filler housing cover

- Ideally suited for installation and removal of hard to reach oil filler covers when changing the oil filler unit or the oil filler
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- External drive hexagonal socket 21.0 mm
- Includes 1/2" oil filler pi
- For manual operation
- Painted surface
- In durable plastic storage case

Application range: Audi, BMW, Fiat, GM, Lancia, Mercedes, Nissan, Opel, Porsche, Renault, Saab, Volvo, Volkswagen, etc.



150.9310	16 pcs	Oil service set for oil filler and filler housing cover	2.30
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consists of:

	Suitable for	mm	Discs	Sides	U
150.9313	Universal	63/102			370
150.9324	Ford, Opel, VW, Audi, Mercedes Benz	74/76	15	170	
150.9325	VW, Mercedes Benz, Porsche, BMW, Audi, Opel	76	14	150	
150.9327	Mazda, Mitsubishi, Volvo, Nissan, Honda	93	15	150	
150.9336	Fiat, Renault	66	6	190	
150.9338	Fiat, Renault, Mercedes Benz	76	12	190	
150.9339	Fiat, Lancia	76	8	170	
150.9340	Universal	21		153	
150.9342	VW, Audi, Renault, Peugeot, Citroën	86	18	143	
150.9343	Volvo S40/S80	86	16	180	
150.9344	Fiat, Lancia	92	10	180	
150.9345	VW, Audi	93	45	180	
150.9347	VW, Audi, Renault	96	18	190	
150.9348	Fiat	106	15	200	
150.9349	Volvo	108	15	220	
150.9351	Renault	108	18	190	

Oil service set for oil filler and filler housing cover

- Ideally suited for installation and removal of hard to reach oil filler covers when changing the oil filler unit or the oil filler
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- External drive hexagonal socket 21.0 mm
- Includes 1/2" oil filler pin
- For manual operation
- Painted surface
- In durable plastic storage case

Application range: Alfa Romeo, Audi, BMW, Daihatsu, Fiat, Ford, GM, Honda, Lancia, Lexus, Mazda, Mercedes, Mitsubishi, Nissan, Opel, Porsche, Renault, Saab, Subaru, Toyota, Volvo, Volkswagen, etc.



150.9350	30 pcs	Oil service set for oil filler and filler housing cover	6.67
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consists of:

	Suitable for	mm	Dimensions	Weight
			mm	kg
150.9313	Universal	63-102		370
150.9321	Daihatsu, Toyota, Nissan, Fiat, Honda	65	6 14 150	
150.9322	Mazda, Ford, Subaru	68	14 320	
150.9323	Toyota, Lexus	73	14 150	
150.9324	Ford, Opel, VW, Audi, Mercedes Benz	74/75	15 170	
150.9325	VW, Mercedes Benz, Porsche, BMW, Audi, Opel	76	14 150	
150.9326	Nissan, Honda, Opel, Mazda	80	15 150	
150.9327	Mazda, Mitsubishi, Volvo, Nissan, Honda	93	15 150	
150.9329	Ford	93	36 150	
150.9330	Daihatsu, Toyota	65/67	14 150	
150.9331	Subaru, Toyota, Honda, Mazda, Nissan	80/82	15 150	
150.9332	Honda, Mitsubishi, Isuzu	90	15 150	
150.9333	VW, Audi, Ford, Isuzu, Mercedes Benz, Opel	75/77	15 150	
150.9334	Ford	76	30 150	
150.9335	Isuzu, Mitsubishi	100	15 150	
150.9336	Fiat, Renault	66	6 190	
150.9337	Audi, GM, Rover, Chrysler	74	15 220	
150.9338	Fiat, Renault, Mercedes Benz	76	12 190	
150.9339	Fiat, Lancia	76	8 170	
150.9340	Universal	21		153
150.9341	Nissan, Ford, Toyota	78	15 170	
150.9342	VW, Audi, Renault, Peugeot, Citroën	86	18 143	
150.9343	Volvo S40/S80	86	16 180	
150.9344	Fiat, Lancia	92	10 180	
150.9345	VW, Audi	93	45 180	
150.9346	Toyota, Alfa, GM, Ford, Ford, Chrysler	95	15 190	
150.9347	VW, Audi, Renault	96	18 190	
150.9348	Fiat	106	15 200	
150.9349	Volvo	108	15 220	
150.9351	Renault	108	18 190	

OIL FILTER CUTTER

Oil filler cutter

- Ideally suited for cleanly cutting the oil filler
- Suitable for oil fillers from Ø 60 - 120 mm
- Can therefore limit premature damage
- Contaminants and shavings can be discovered early
- With mounting possibility on the work bench
- Includes t-bar
- Special steel



	Length mm	Height mm	Width mm	Weight kg
150.9203	280.0	35.0	120.0	730

OIL DIP STICK

Oil control rod for Mercedes Benz

- Ideal for the easy, quick and correct control of engine and automatic transmission oil levels
- Essential following an oil change, since vehicles are shipped without a measuring device and only have a plug
- Time-saving and reliable measurements
- With plastic hand grip



150.9280	4 pcs	Oil control rod for Mercedes Benz	380
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consists of:

		Transmission gear ID	Weight kg
150.9281	Oil dip stick, 1220 mm	772.6 L, G, P, V	160
150.9282	Oil dip stick, 920 mm	772.7_P, 772.8_P, 716.5_V	120
150.9283	Oil dip stick, 930 mm	103, 104, 111, 119, 120, 137, 603	40
150.9284	Oil dip stick, 930 mm	M112, 113, 646, 647, 648	40

Oil dip stick for VAG

- Ideal for the easy, quick and correct control of engine oil levels
- Adjustable oil measure as a tool for checking oil levels electronically
- Essential following an oil change, since vehicles are shipped without a measuring device and only have a plug
- For checking after an oil change or replacing the oil sensor
- Optimal for recalibrating combi-instruments
- Time-saving and reliable measurements

Application range: Audi A4 (> 2008)/Audi A5 (> 2008)/Audi A7/Audi A8/Audi Q5/Volkswagen Touareg
Engines: 3.2-4V petrol/3.2 FSI/2.0 TFSI/3.0 TDI



	L mm	Weight kg
150.9285	630.0	30

OIL FILLING AND EMPTYING PUMP

Mini transfer pump

- Ideal aid for transferring in emergencies
- Suitable for battery acid, fuels, oils and distilled water
- The hoses are attached to the balloon holder using supplied hose clamps
- Acid-resistant
- Special plastic



	Tube inner Ø mm	Tube length mm	Weight kg
150.1665	8.0	2 x 900	320

Syringe for fluid change 0.2 l

- Ideal tool for decanting, removing or dosing liquids to transmissions, power steering, hydraulics, engines, etc.
- Suitable for fuel oil, water and antifreeze
- Fine dosing
- Overfilling material can be pumped back problem-free
- Includes rubber hose
- Robust metallic design



	Tube inner Ø mm	Hose inner Ø mm	Tube length mm	Housing length mm	Weight kg	
150.1684	0.2	8	10	290	290	365

Transfer pump

- Ideal aid for easy transferring and pumping
- Suitable for battery acid, fuels, oils and distilled water
- Acid-resistant
- With high quality pump body and reinforced pump handle
- Special plastic



	Tube inner Ø mm	Tube length mm	Weight kg
150.1660	12.0	2 x 1.300	465

Universal transmission oil filling system set incl. 15 piece adapter set

- Ideal for filling transmission, distributor transmission and differentials of different vehicle manufacturers with oil
- Large coverage of many vehicle manufacturers in particular with universal adapter
- Many transmission cannot be filled without this tool
- Optimal for narrow places or hard-to-reach places
- Includes 15 piece adapter set with various angle tails for correct and economic filling
- Quick filling by unscrewing the pump units is possible
- Precise hand pump
- Includes return flow function
- For difficult-to-access areas
- Secure stand thanks to large base
- Container with filling level scale
- Easy to use and saves time

Application range: Audi, Ford, BMW, Mercedes, Volkswagen, Skoda, Volvo, Toyota, Lexus, Nissan, Infiniti etc.



Technical data:

- Capacity: 7.5
- Tube length: 1600.0 mm
- Tube diameter: 1/2"
- Quantity per stroke: 80 cc
- Viscosity: - SAE 140

		Weight kg
150.9275	16 pcs Universal transmission oil filling system set incl. 15 piece adapter set	4.80

consists of:

		Weight kg
150.9258	Transmission oil filling device without adapter	3.50
150.9279	Transmission oil filling adapter set 15 piece	1.30



Vacuum fluid extractor suction pump 9.5 litre

- Ideal for quick, clean and simple suction, intake and emptying of fluid
- Suitable for engine oil, transmission oil, hydraulic oil, brake fluid, water, etc.
- For pneumatic use with a compressor or manual use with the integrated hand pump
- Select a suitable probe and suck easily using the vacuum principle
- Suction process automatically stopped when housing is full, preventing fluids from spilling over
- With integrated pressure relief valve for more safety
- With high-quality pump housing and strengthened pump head
- Includes 4 probes for different uses
- Ideally suited to hard-to-reach places thanks to the included, long suction hose
- The suction hose is resistant to petrol and oil
- Polyethylene

Application range: Passenger cars, transporters and MPVs, commercial vehicles, tractors, agricultural and construction machinery, industrial uses



Technical data:

- Work pressure: 5-11.5 bar
- Capacity: 9.5 l
- Operating temperature: +0°C to +55°C
- Filling tube length: 1.5 m
- Max. fill rate: 125 l/min

		Weight kg
160.0790	5 pcs Vacuum fluid extractor suction pump 9.5 litre	5.00

consists of:

		Weight kg
160.0791	Vacuum fluid extractor suction pump 9.5 litre	3708
160.0792	Adaptor and tube 4x8mm x1,5m	200
160.0793	Main probe 7.8 x 9.8 mm x 1 m	200
160.0794	Probe 5.3 x 6.7 mm x 1 m	200
160.0795	Probe 3.5 x 4.5 mm x 1 m	200

Universal transmission oil filling adapter set

- Ideal for filling transmission, distributor transmission and differentials of different vehicle manufacturers with oil
- Large coverage of many vehicle manufacturers in particular with universal adapter
- Many transmission cannot be filled without this tool
- Optimal for narrow places or hard-to-reach places
- With various angle tails for correct and economic filling
- For difficult-to-access areas
- Easy to use and saves time
- In durable plastic storage case

Application range: Audi, Ford, BMW, Mercedes, Volkswagen, Skoda, Volvo, Toyota, Lexus, Nissan, Infiniti etc.



		Weight kg
150.9279	15 pcs Universal transmission oil filling adapter set	1.30

consists of:

		Weight kg
150.9261	Adapter pipe straight, Ford, Ø 10 GL=120 x AL = 110 with thread	43
150.9262	Angled adapter pipe, universal, Ø 10 GL = 140 x 45 mm	65
150.9263	Angled adapter pipe, VAG, Ø 10 GL = 150 x 15 mm	58
150.9264	Angled adapter pipe, VAG, Ø 10 GL = 150 x 30 mm	61
150.9265	Adapter pipe straight, VAG, Ø 10 GL = 100 x AL = 85 with thread	33
150.9267	Screw adapter, Mercedes transmission number 722.9, M12 x 1.5	53
150.9268	Screw adapter, VAG DSG, M24 x 1.5	110
150.9269	Screw adapter, VAG CVT, M22 x 1.5	90
150.9271	Screw adapter, Škoda, M18 x 1.5	65
150.9272	Screw adapter, Škoda/VAG, M30 x 1.5	150
150.9273	Flexible universal adapter, 300 mm	35
150.9274	Adapter line for Volvo, 5/16"-24"	22
150.9276	Adapter line for Toyota/Lexus, M18 x 1.5	89
150.9277	Adapter line for Nissan/Infiniti, M8 x 1.0	25
150.9278	Angled ATF adapter for Volkswagen Passat	93



OIL FILLING CONTAINER

Oil release adaptor hose for VAG 1.8 + 2.0 gasoline car with stop function

- Ideally suited for a clean, correct and environmentally-friendly draining of the engine oil via the oil filler housing
- The adapter opens a valve when screwed into the oil filler housing and ensures controlled draining
- With flow stop at the end of the hose
- Reduces loss and dirtying of oily engines
- Flexible, transparent hose

Application range: Audi, Seat, Škoda and Volkswagen with 1.8 l and 2.0 l engines with engine codes AXW/ BLY/ BVZ/ BVY/ BLX/ BLR/ BVX



	Length mm	Ø Tube mm	Weight g
550.1291	550.0	14 x 16	137

Measuring cup set

- Configuration of practical measuring cup sizes
- Versatile application possibilities
- Transparent
- Break-proof
- Red primed scale division
- Resistant to oil, petrol and acid
- With handle and spout
- PE (polyethylene)

Scales: L/ml, cups, Oz, quart



	Weight g
150.9205 3 pcs 250 - 500 - 1.000 ml	227



Oil can with flexible outlet spout

- For a wide range of uses
- Flexible, funnel-shaped spout allows for a clean drainage
- Suitable for oil, chemicals, petrol, acid, anti-freeze fluid and non-acidic fluid
- Break-resistant
- Steady
- Graduated scale
- With practical carry handle
- Special plastic



	Quantity	Code	Weight g
150.9234	1	150.9236	150
150.9235	2	150.9236	250



Funnel set

- Configuration of practical funnel sizes
- Versatile application possibilities
- Red
- Break-proof
- Resistant to oil, petrol and acid
- Grip strap for convenient use
- HDPE (high density polyethylene)



	Weight g
150.9240 5 pcs Ø 50 - Ø 75 - Ø 95 - Ø 115 - Ø 150 mm	251

Universal funnel set

- Special flexible funnel for hard-to-reach places
- For a wide range of uses
- With bayonet connection and seal
- Direct connection to the oil filler opening
- No more lengthy and time-consuming pouring
- Includes clear hose with sealing plug on the end of the hose
- Bottle with handle for comfortable use
- Reduces loss and dirtying of oily engines
- Special plastic



	Quantity	Ø Tube mm	Weight g	Size length mm	Weight g
150.9230	3 pcs	14x16	1	160	400 240

Flexible funnel with aluminium body

- Ideally suited to a clean and controlled draining of all fluids, e.g. oil, coolant, brake fluid, fuel, etc.
- Resistant to petrol, diesel, oil, coolant, hydraulic and brake fluid
- Also suitable as a funnel for filling
- Shape is maintained and can be altered at any time
- Free malleable, therefore can be adapted for extremely tight spaces
- Problems with draining fluids are a thing of the past
- The heavy-duty construction can be fitted to any desired shape and used again
- Easy to clean
- Temperature resistance of -34 to +232°C
- Aluminium frame
- Outer skin made from nitrile rubber



	Length mm	Width mm	Weight g
150.9303	372.0	170.0	240

Oil fill funnel set

- Ideally suited for a clean, correct and environmentally-friendly filling
- Special narrower funnel with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Includes bayonet and VAG MQB platform adapter
- No play assembly on the engine
- Aluminium plug system design
- Special plastic
- Optional expandable plug system



150.9525	3 pcs	1	940

consists of:

150.9526	Oil fill funnel, 1 litre	253
150.9528	Universal bayonet adapter for oil fill funnel	260
150.9539	VAG MQB platform adapter for oil fill funnel	167

Oil fill funnel set with turnable arm

- Ideally suited for a clean, correct and environmentally-friendly filling
- Special narrower funnel with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- With turnable arm for hard to reach places
- Includes bayonet and VAG MQB platform adapter
- No play assembly on the engine
- Aluminium plug system design
- Special plastic
- Optional expandable plug system



150.9535	4 pcs	1	1.26

consists of:

150.9526	Oil fill funnel, 1 litre	253
150.9527	Arm for oil fill funnel	309
150.9528	Universal bayonet adapter for oil fill funnel	260
150.9539	VAG MQB platform adapter for oil fill funnel	167

Oil pouring funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling alongside the adapter
- Special narrower funnel with seal
- Direct and secure connection with the oil fill opening via the adapter
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Special plastic
- Optional expandable plug system
- Can be used alongside an adapter



150.9526		1	253



Arm for oil fill funnel

- Ideally suited with the funnel and adapter for clean, correct and environmentally friendly filling
- Special turnable arm for hard to reach places with a seal
- In connection with the funnel and adapter direct and secure connection with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- Can be used alongside an oil fill funnel and adapter



150.9527	Length mm	309

Universal bayonet adapter for oil fill funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling
- Special bayonet adapter with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- For use alongside the oil fill funnel

Application range: Audi, BMW, Ford, Mercedes, Škoda, Seat, Volvo and Volkswagen



150.9528	Ø mm	260

VAG MQB platform adapter for oil fill funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling
- Special adapter with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- For use alongside the oil fill funnel

Application range: Audi A3 (8V), Seat Leon (5F), Škoda Octavia 3, Volkswagen Golf 7



150.9539	Ø mm	167

Subaru adapter for oil fill funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling
- Special adapter with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- For use alongside the oil fill funnel

Application range: Subaru



150.9529	Thread	236
	Ø mm	

Toyota and Lexus adapter for oil fill funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling
- Special adapter with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- For use alongside the oil fill funnel

Application range: Toyota and Lexus



	Thread	Ø mm	Weight
150.9531	M24 x 1,5	61,0	224

Toyota and Lexus bayonet adapter for oil fill funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling
- Special bayonet adapter with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- For use alongside the oil fill funnel

Application range: Toyota and Lexus



	Ø mm	Weight
150.9534	61,0	260

Mazda adapter for oil fill funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling
- Special adapter with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- For use alongside the oil fill funnel

Application range: Mazda

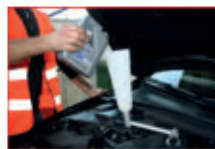


	Thread	Ø mm	Weight
150.9532	M24 x 1,5	61,0	240

Honda, Nissan and Jaguar adapter for oil fill funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling
- Special adapter with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- For use alongside the oil fill funnel

Application range: Honda, Nissan and Jaguar



	Thread	Ø mm	Weight
150.9533	M24 x 1,5	61,0	235

Porsche adapter for oil fill funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling
- Special adapter with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- For use alongside the oil fill funnel

Application range: Porsche 911 (1984-1989), 911 Turbo (1984-1994), 924S (1985-1988), 928 (1987-1995), 944 (1983-1989), 944 S (1986-1991), 944 S2 (1989-1992), 944 Turbo (1985-1991), 968 (1992-1995), 911 Carrera 2 (1989-1993), 911 Carrera 4 (1989-1993)



	Ø mm	Weight
150.9536	65,0	200

Porsche adapter for oil fill funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling
- Special adapter with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- For use alongside the oil fill funnel

Application range: Porsche Carrera (2005-2008), Carrera S (2005-2008), Carrera 4 (2006-2008), Carrera 4S (2006-2008), 911 Turbo (2007-2009), Boxster (2005-2008), Boxster S (2005-2008), Cayman (2006-2008), Cayman S (2006-2008)



	Ø mm	Weight
150.9537	65,0	220

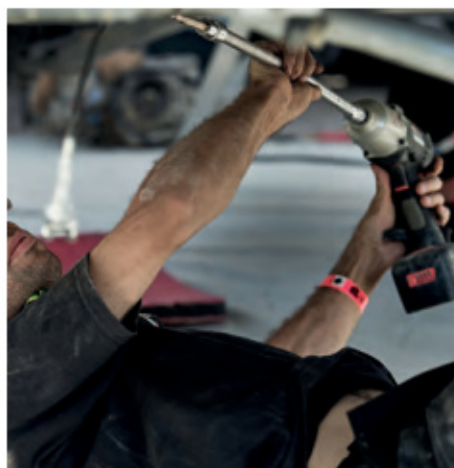
Universal adapter for oil fill funnel

- Ideally suited with the funnel for clean, correct and environmentally friendly filling
- Special adapter with seal
- Direct and tight fitting with the oil fill opening
- No more lengthy and time-consuming pouring
- Prevents loss and dirtying from drained oil on the engine block or exhaust manifold
- Aluminium plug system design
- Optional expandable plug system
- For use alongside the oil fill funnel

Application range: Cadillac, Chevy Cobalt, Ford Explorer, GMC Sierra, Hyundai Santa Fe and Tucson, Jaguar 5.0 I V8 engines, Land Rover 5.0 I V8 engines, Mazda CX-9 3.7 I, Saab 9-3



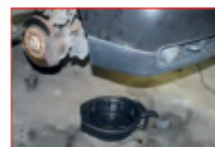
	Ø mm	Weight
150.9538	61,0	180



OIL COLLECTION PAN

Oil drain pan 7.5 litres

- With three carry handles
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock-proof



	Ø mm	H mm	Weight
150.9359	385,0	130,0	620

Oil drain pan 8 litres

- With three carry handles
- Safe and clean pouring with the spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Screwed connection with rubber seal for safe transport
- Shock-proof



	B mm	H mm	L mm	kg
150.9357	340.0	120.0	600.0	1.06

Oil drain pan 17 litres

- With three carry handles
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock-proof



	Ø mm	H mm	kg
150.9360	445,0	145,0	1,16

Oil drain pan 17 litres

- With three carry handles
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock-proof



	Ø mm	H mm	kg
150.9361	445,0	145,0	1,16

Mobile oil drain pan, 30 litres, extra fl t with castors

- With five carry handles
- 12.0 cm high, extra fl t edges
- Safe and clean pouring with the closed contained and spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- With four steerable castors
- Practical, quick and friendly to the environment
- Includes removable sieve
- Screwed connection with rubber seal for safe transport
- Shock-proof



	B mm	H mm	L mm	kg
150.9354	600.0	120.0	850.0	5.60



Oil drain pan 55 litres, extra fl t

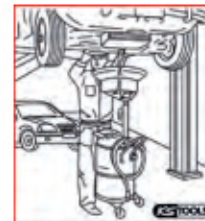
- With four carry handles
- 11.0 cm high, extra fl t edges
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock-proof
- Polyethylene



	L mm	B mm	H mm	kg
150.9358	1030.0	724.0	110.0	6.80

Mobile oil draining device 60 litre

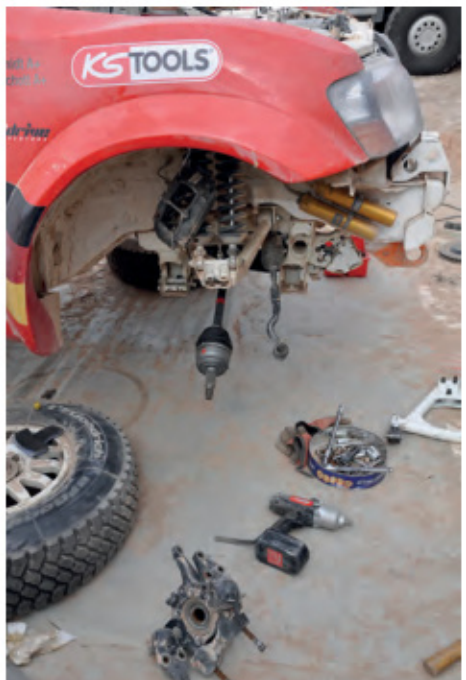
- Basic unit for old oil capture and re-filling
- Pneumatic pressure emptying with manometer and safety valve
- Emptying takes approximately 3 minutes at 0.8 bar
- Heavy deposits can also be removed via a plate on the underside
- Mobile and connectable container with extra-large plastic wheels
- With carry handle
- Stop cock and clamping screws to release pressure
- Extremely manoeuvrable and ideal for workshop design
- Centrally mounted and height-adjustable round drip pan
- Side filling display with measuring scales
- Includes clear fabric hose for draining



Technical data:

Capacity of container:	60 l
Capacity of catch:	ca. 16 l
Collection container dimensions:	490 x 580 x 1040 mm
Collection pan dimensions:	Ø 380 mm
Height adjustment:	1040 - 1700 mm

	kg	kg
160.0001	60	32.00



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1:1

AUDI | BMW | CHRYSLER | CITROËN | FIAT | FORD | GM | HONDA | LEXUS | MAZDA |
MERCEDES | MITSUBISHI | MORRIS | NISSAN | OPEL | PEUGEOT | RENAULT | TOYOTA |
TRIUMPH | VOLKSWAGEN AUDI GROUP | VOLVO



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our mission!

WHEEL / TYRE FITTING



Innovation is our mission!

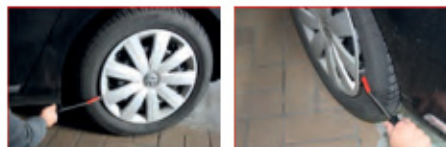


	PAGE
HUB CAP TOOLS	646
MAGNETIC HOLDERS	646
TYRE STORAGE	646
TORSION RODS	647 - 649
SPECIAL BORING TOOLS	649
WHEEL BOLTING SOCKET WRENCH	649 - 652
WHEEL NUT WRENCH	652 - 653
MANUAL RELEASE TOOLS	653
TORQUE WRENCHES	653 - 654
TYRE SERVICE HAMMERS	654 - 655
WHEEL HUB CLEANING	655 - 657
TYRE PRESSURE CONTROL SYSTEM SETS	657 - 663
THREAD REPAIR	663 - 664
PROFILE DEPTH MEASURER	664
WHEEL FILLING GAUGE	664 - 665
MOUNTING LEVER	665
BEAD HOLD-DOWN DEVICE	665
VALVE BORING TOOLS	665 - 666
VALVE LIFT	666
TYRE SERVICE PLIERS	666 - 667
ADHESIVE WEIGHT REMOVER	667
TYRE FITTING GREASE	667 - 668
TYRE REPAIR	668 - 669
WEDGES	670
LIFT TECHNOLOGY	670 - 672
TYRE TRANSPORT	672

HUB CAP TOOLS

Release lever for the disassembly of plastic hub caps with protective insulation

- Easier release lever for the damage-free disassembly of plastic hub caps
- Blade-like tapered lever head for the tightest spaces
- With protective insulation
- Ergonomic single component handle



	L mm	
911.8150	300.0	190

Release lever for the assembly and disassembly of plastic hub caps

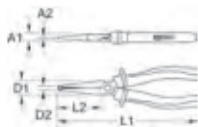
- Release lever for the damage-free assembly and disassembly of plastic hub caps
- Optimally moulded lever end
- Blade-like tapered lever head for the tightest spaces
- With integrated rubber mallet for hitting the plastic hub caps
- Ergonomic single component handle



	L mm	
911.8155	360.0	550

Pliers for the mounting and disassembly of wheel bolt protective caps

- For the mounting and disassembly of wheel bolt caps on aluminium rims
- Specially shaped pliers tip for the optimal removal of wheel bolt protective caps
- With two component handle
- Matt chrome
- Chrome vanadium



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	
150.2023	0.0-11.5	6.5	20.0	7.0	200.0	64.0	260

MAGNETIC HOLDERS

Metal magnetic holder

- Creates an organised working area
- Positive and safe mounting
- With 2 exceptionally strong magnets (Ø each 80 mm)
- Has reinforcement on the elevated section
- Impact wrench, sockets and a torque wrench can all be left in their set place



	L mm	
800.0190	390.0	1.46

Plastic magnetic bowl

- Oblique opening
- For holding screws and other small parts
- Magnetic plate is covered with rubber
- Plastic



	Ø mm	
800.0156	150	750

Stainless steel magnetic tray

- 1 magnet
- For holding screws and other small parts such as wheel nuts
- Magnetic plate is covered with plastic
- Stainless steel



	Ø mm	
800.0150	150.0	430



Stainless steel magnetic tray

- 2 magnets
- For holding screws and other small parts such as wheel nuts
- Magnetic plate is covered with plastic
- Stainless steel



	L mm	B mm	
800.0151	240.0	140.0	850

TYRE STORAGE

Wheel bolt bag

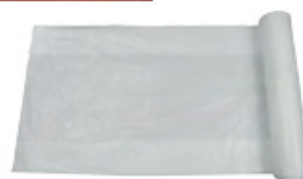
- Ideal for the storage of wheel bolts
- With handy drawstring for closing
- Made from 100% cotton



500.8032	Wheel bolt bag 20

Tire bags

- Protects the vehicle interior when transporting tires
- Ideal for storage in the garage or workshop
- LDPE plastic
- Delivery on perforated roll



	Length mm	Width mm	Height mm	Colour code	Quantity	
500.8088	700.0	350.0	500.0	white	100	4.00

TORSION RODS

Torsional torque limiter extension

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- Internal square in accordance with DIN 3120/ISO 1174
- For machine operation
- Colour coded for better overview
- Chrome molybdenum



	Colour code	max N-m	L mm	D mm	Weight
515.1061	●	90	195.0	25.0	270
515.1062	●	100	195.0	25.0	270
515.1063	○	110	195.0	25.0	270
515.1064	●	120	195.0	25.0	270
515.1065	●	135	195.0	25.0	270

Torsional torque limiter extension set

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- Internal square in accordance with DIN 3120/ISO 1174
- For machine operation
- Colour coded for better overview
- Chrome molybdenum



	Weight
515.1060 5 pcs. 90 - 100 - 110 - 120 - 135 N-m	1.37

consists of:

	Weight
515.1061 Torsion bar extension, 1/2", 90Nm	270
515.1062 Torsion bar extension, 1/2", 100Nm	270
515.1063 Torsion bar extension, 1/2", 110Nm	270
515.1064 Torsion bar extension, 1/2", 120Nm	270
515.1065 Torsion bar extension, 1/2", 135Nm	270

Torsional torque limiter socket 17 mm x 75 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Renault, Škoda, Suzuki



	Colour code	mm	max N-m	L mm	D mm	Weight
515.1472	●	17,0	75	220,0	26,0	300

Torsional torque limiter socket 17 mm x 95 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Opel, Renault



	Colour code	mm	max N-m	L mm	D mm	Weight
515.1473	○	17,0	95	220,0	26,0	300

Torsional torque limiter socket 17 mm x 110 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Audi, BMW, Opel, Porsche and Volkswagen



	Colour code	mm	max N-m	L mm	D mm	Weight
515.1474	●	17,0	110	220,0	26,0	300

Torsional torque limiter socket 19 mm x 55 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Alfa Romeo, Citroën, Fiat, Honda, Hyundai, Peugeot, Renault, Rover



	Colour code	mm	max N-m	L mm	D mm	Weight
515.1475	●	19,0	55	220,0	28,0	300

Torsional torque limiter socket 19 mm x 90 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Alfa Romeo, Citroën, Fiat, Ford, Lada, Opel, Peugeot, Renault, Rover, Volvo



	Colour code	mm	max N-m	L mm	D mm	Weight
515.1476	●	19,0	90	220,0	28,0	300

Torsional torque limiter socket 19 mm x 110 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Alfa Romeo, Fiat, Ford, Honda, Hyundai, Isuzu, Kia, Mercedes, Rover, Saab, Volvo



	Colour code	mm	max N-m	L mm	D mm	Weight
515.1477	●	19,0	110	220,0	28,0	300

Torsional torque limiter socket 19 mm x 135 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Ford, Porsche



Colour code	mm	max N-m	L mm	D mm	g
515.1478	19,0	135	220,0	28,0	300

Torsional torque limiter socket 21 mm x 95 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Ford



Colour code	mm	max N-m	L mm	D mm	g
515.1481	21,0	95	220,0	30,0	300

Torsional torque limiter socket 19 mm x 100 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Fiat Ulysse, Fiat Multipla



Colour code	mm	max N-m	L mm	D mm	g
515.1484	19,0	100	220,0	28,0	300

Torsional torque limiter socket 21 mm x 80 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Mitsubishi, Rover



Colour code	mm	max N-m	L mm	D mm	g
515.1479	21,0	80	220,0	30,0	300

Torsional torque limiter socket 17 mm x 120 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Audi, Škoda



Colour code	mm	max N-m	L mm	D mm	g
515.1482	17,0	120	220,0	26,0	300

Torsional torque limiter socket 19 mm x 150 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Mercedes M-class



Colour code	mm	max N-m	L mm	D mm	g
515.1485	19,0	150	220,0	28,0	300

Torsional torque limiter socket 21 mm x 110 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Daihatsu, Ford, Mazda, Mitsubishi, Nissan, Toyota



Colour code	mm	max N-m	L mm	D mm	g
515.1480	21,0	110	220,0	30,0	300

Torsional torque limiter socket 17 mm x 150 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Mercedes S-class



Colour code	mm	max N-m	L mm	D mm	g
515.1483	17,0	150	220,0	26,0	300

Torsional torque limiter socket 22 mm x 80 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Jaguar (only steel rims)



Colour code	mm	max N-m	L mm	D mm	g
515.1486	22,0	80	220,0	32,0	300

Torsional torque limiter socket 22 mm x 100 N-m

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive as per DIN 3121/ISO 1174 with ball stop
- For machine operation
- Colour coded for better overview
- Chrome molybdenum

Application range: Jaguar (only aluminium rims)

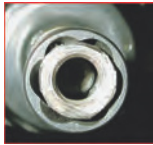


Colour code	Max. Nm	L mm	D mm	Weight
515.1487	22.0	100	220.0	320

SPECIAL BORING TOOLS

Special force socket set with spiral grooves for damaged wheel bolts and nuts

- Dual profile sockets have spiral grooves and hexagonal profile
- Self-fastening aggressive special spiral profile
- For loosening badly damaged wheel bolts and nuts
- The square drive is located in the central part of the socket
- For machine operation
- Phosphate
- Chrome molybdenum



Weight	Max. Nm	L mm	D mm	Weight
913.1280	3 pcs	Special force socket set with spiral grooves for damaged wheel bolts and nuts	600	

consists of:

Weight	Max. Nm	L mm	D mm	Weight
913.1281	1/2"	Spiral profile impact socket 17 mm	130	
913.1282	1/2"	Spiral profile impact socket 19 mm	170	
913.1283	1/2"	Socket Extension, 75 mm	160	



Special force socket set with spiral grooves for damaged wheel bolts and nuts

- Dual profile sockets have fine and coarse spiral groove profiles
- Self-fastening aggressive special spiral profile
- For loosening badly damaged wheel bolts and nuts
- Square drive as per DIN 3121/ISO 1174
- For machine operation
- Phosphate
- Chrome molybdenum



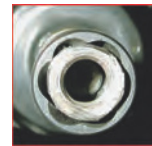
Weight	Max. Nm	L mm	D mm	Weight
913.1270	3 pcs	Special force socket set with spiral grooves for damaged wheel bolts and nuts	600	

consists of:

Weight	Max. Nm	L mm	D mm	Weight
913.1271	1/2"	Spiral profile impact socket 17 mm	140	
913.1272	1/2"	Spiral profile impact socket 19 mm	200	
913.1273	1/2"	Spiral profile impact socket 21 mm	210	

Special force socket with spiral grooves for damaged wheel bolts and nuts, extra long

- Self-fastening aggressive special spiral profile
- For loosening badly damaged wheel bolts and nuts
- Square drive as per DIN 3121/ISO 1174
- Extra-long execution
- For machine operation
- Phosphate
- Chrome molybdenum



Weight	Max. Nm	L mm	D mm	Weight
913.1291	17	145.0	300	
913.1292	19	145.0	320	
913.1293	21	145.0	340	

Special force socket set with spiral grooves for damaged wheel bolts and nuts, extra long

- Self-fastening aggressive special spiral profile
- For loosening badly damaged wheel bolts and nuts
- Includes impact mandrel
- Square drive as per DIN 3121/ISO 1174
- Extra-long execution
- For machine operation
- Phosphate
- Chrome molybdenum
- In durable plastic storage case



Weight	Max. Nm	L mm	D mm	Weight
913.1290	4 pcs	Special force socket set with spiral grooves for damaged wheel bolts and nuts, extra long	1.50	

consists of:

Weight	Max. Nm	L mm	D mm	Weight
913.1291	1/2"	Spiral profile impact socket 17 mm	300	
913.1292	1/2"	Spiral profile impact socket 19 mm	320	
913.1293	1/2"	Spiral profile impact socket 21 mm	340	
913.1295		Impact bar	540	

WHEEL BOLTING SOCKET WRENCH

Hexagon impact socket set, deep

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- Includes storage rail



Weight	Max. Nm	L mm	D mm	Weight
515.0103	3 pcs	17 - 19 - 21 mm	860	

consists of:

Weight	Max. Nm	L mm	D mm	Weight
515.1117		Impact socket, deep, 1/2", 17mm	220	
515.1119		Impact socket, deep, 1/2", 19mm	220	
515.1121		Impact socket, deep, 1/2", 21mm	220	

Aluminium wheel impact socket, deep

- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage free work on aluminum rims
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Chrome vanadium



Weight	Max. Nm	L mm	D1 mm	D2 mm	T mm	Replacement sleeves	Weight
515.2015	15.0	85.0	21.0	25.0	23.0	515.2035	180
515.2017	17.0	85.0	24.0	30.0	23.0	515.2030	231
515.2019	19.0	85.0	26.0	30.0	23.0	515.2031	235
515.2021	21.0	85.0	28.0	30.0	23.0	515.2032	258
515.2022	22.0	85.0	30.0	32.0	23.0	515.2033	320

Aluminium wheel impact socket set, deep

- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square to DIN 3121 / ISO 1174 with ball reception
- For machinery usage
- Plastic sleeves for the damage free work on aluminum rims
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Chrome vanadium
- In durable plastic case



	mm			
515.1005	3 pcs	17 - 19 - 21 mm	0.86	
515.1006	4 pcs	17 - 19 - 21 - 22 mm	1.45	
515.1007	5 pcs	15 - 17 - 19 - 21 - 22 mm	1.40	

Aluminium wheel impact socket, extra deep

- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Extra long execution
- For machinery usage
- Plastic sleeves for the damage free work on aluminum rims
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Chrome vanadium



Colour code	mm	L mm	D1 mm	D2 mm	T mm	Replacement sleeves	mm
515.2040	17,0	150,0	28,0	30,0	31,0	515.2045	600
515.2041	19,0	150,0	29,5	30,0	31,0	515.2046	650
515.2042	21,0	150,0	31,0	30,0	31,0	515.2047	700

Aluminium wheel impact socket set, extra deep

- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Extra long execution
- For machinery usage
- Plastic sleeves for the damage free work on aluminum rims
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Chrome vanadium
- In durable plastic case



	mm		
515.1040	6 pcs	Aluminium wheel impact socket set, extra deep	1,45

consists of:

515.2040	Impact socket, XXL, blue, 1/2", 17mm	600	
515.2041	Impact socket, XXL, yellow, 1/2", 19mm	650	
515.2042	Impact socket, XXL, red, 1/2", 21mm	700	
515.2045	Replacement plastic sleeve, 17mm	10	
515.2046	Replacement plastic sleeve, 19mm	10	
515.2047	Replacement plastic sleeve, 21mm	10	

Special aluminium wheel impact socket, extra deep

- Specially for the wheel assembly and/or dismantling on aluminium sports wheels with deep lying wheel screws
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Extra long and thin walled execution
- For machinery usage
- Plastic sleeves for the damage free work on aluminum rims
- Plastic sleeves interchangeable
- Phosphate finish
- Chrome molybdenum



	mm	L mm	D1 mm	D2 mm	T mm	Replacement sleeves	mm
515.2043	17,0	130,0	28,0	30,0	19,0	515.2044	350

Special aluminium wheel impact socket for special profile, long

- Especially for wheel mounting or disassembly of Mercedes special profile wheel bolts
- Square drive as per DIN 3121/ISO 1174 with backstop groove
- Long design
- Plastic-coated for the damage-free working on aluminium rims
- Replaceable plastic sleeve
- Phosphate
- Chrome molybdenum

Application range: Mercedes C-class (W204), CL-class (W216), GLK (W204), E-class (W211, W212, W207), M-class (W166), S-class (W221, W222), SLK (W172), Maybach



	mm	L mm	D1 mm	D2 mm	T mm	Replacement sleeves	mm
515.2055	MS17	88,0	26,0	26,0	18,0	515.2056	257

Aluminium wheel impact socket, deep

- Robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum



	Colour code	mm	L mm	D1 mm	D2 mm	T mm	Replacement sleeves	mm
515.1072	Green	15,0	85,0	24,4	25,0	23,0	515.2053	150
515.1073	Blue	17,0	85,0	26,5	30,0	23,0	515.2050	220
515.1075	Yellow	19,0	85,0	28,5	30,0	23,0	515.2051	235
515.1076	Red	21,0	85,0	30,5	30,0	23,0	515.2052	257
515.1077	Orange	22,0	85,0	31,6	32,0	23,0	515.2054	262



Aluminium wheel impact socket set, deep

- Robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum
- In durable plastic case



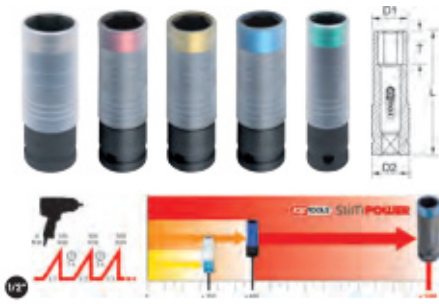
	mm		
515.1070	3 pcs	17 - 19 - 21 mm	780

consists of:

515.1073	Torque impact socket, deep, 1/2", 17mm	220	
515.1075	Torque impact socket, deep, 1/2", 19mm	235	
515.1076	Torque impact socket, deep, 1/2", 21mm	257	

SlimPOWER Alloy rim impact socket, deep

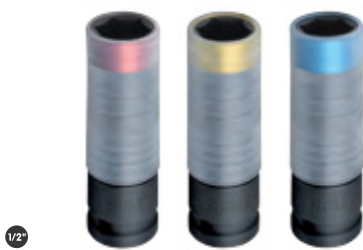
- Very robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum



Colour code	mm	L mm	D1 mm	D2 mm	T mm	kg
515.0991	15,0	86,0	24,5	23,5	20,0	155
515.0992	17,0	86,0	26,0	25,5	20,0	220
515.0993	19,0	86,0	26,0	27,5	20,0	207
515.0994	21,0	86,0	26,0	29,5	20,0	251
515.0995	22,0	86,0	32,0	30,0	20,0	266

SlimPOWER Alloy rim impact socket set, deep

- Very robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum
- In durable plastic case



Colour code	mm	L mm	D1 mm	D2 mm	T mm	kg
515.0989	2 pcs	17 - 19 mm				404
515.0990	3 pcs	17 - 19 - 21 mm				791



SlimPOWER Alloy rim impact socket, extra deep

- Very robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Extra long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum



Colour code	mm	L mm	D1 mm	D2 mm	T mm	kg
515.0617	17,0	150,0	26,5	29,0	20,0	385
515.0618	19,0	150,0	28,5	29,5	20,0	405
515.0619	21,0	150,0	30,0	29,5	20,0	425

SlimPOWER Alloy rim impact socket set, extra deep

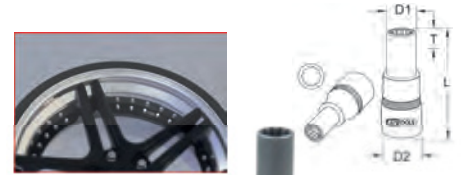
- Very robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum
- In durable plastic case



Colour code	mm	L mm	D1 mm	D2 mm	T mm	kg
515.0621	2 pcs	17 - 19 mm				800
515.0622	3 pcs	17 - 19 - 21 mm				1300

OZ special aluminium rims socket for multi-piece OZ rims

- Custom-fit special profile or disassembling multi-piece OZ rims
- Also suitable for BBS, AMG, RH, etc. rims with OZ bolting
- Square drive as per DIN 3121/ISO 1174 with backstop groove
- Professional and damage-free assembly and disassembly
- Time-saving finishing and repair
- Matt finish
- Chrome vanadium



Profile	mm	L mm	D1 mm	D2 mm	T mm	kg
515.1033	10 point	8,0	60,0	12,0	23,0	8,0
515.1034	10 point	10,0	60,0	14,0	23,0	8,0

OZ special aluminium rims bit socket for multi-piece OZ rims

- Custom-fit special profile or disassembling multi-piece OZ rims
- Also suitable for BBS, AMG, RH, etc. rims with OZ bolting
- Square drive as per DIN 3121/ISO 1174 with backstop groove
- Professional and damage-free assembly and disassembly
- Time-saving finishing and repair
- Matt finish
- Chrome vanadium



Profile	L mm	D mm	T mm	kg	
515.1036	10 point	90,0	23,0	52,0	100

Special OZ socket set for multi-pieces aluminum rims

- Custom-fit special profile or disassembling multi-piece OZ rims
- Also suitable for BBS, AMG, RH, etc. rims with OZ bolting
- Square drive as per DIN 3121/ISO 1174 with backstop groove
- Professional and damage-free assembly and disassembly
- Time-saving finishing and repair
- Matt finish
- Chrome vanadium



Profile	L mm	D mm	T mm	kg
515.1039	3 pcs	Special OZ socket set for multi-pieces aluminum rims		280

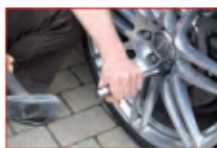
consists of:

Profile	L mm	D mm	T mm	kg
515.1033	OZ special aluminium rims socket for multi-piece OZ rims, 8 mm			80
515.1034	OZ special aluminium rims socket for multi-piece OZ rims, 10 mm			80
515.1036	OZ special aluminium rims bit socket for multi-piece OZ rims, 8 mm, 90 mm long			100

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Rim lock release tool set

- For the quick and easy removal of wheel rim locks
- With conical left hand cutting internal thread
- Slim design is ideal for tight mounting holes
- Can be used for almost all current wheel lock systems
- Includes impact and pull punch
- Force-fit connection between socket and head
- Phosphate
- Chrome molybdenum
- In durable plastic storage case



			kg
913.1480	10 pcs	Rim lock release tool set	2.35

consists of:

			kg
913.1480-01	6-point rod, 17 mm x 180 mm	265	
913.1480-02	6-point rod, 22 mm x 180 mm	530	
913.1480-03	Force socket, 24 mm	190	
913.1480-04	Force socket, 23 mm	180	
913.1480-05	Force socket, 25 mm	200	
913.1480-06	Force socket, 22 mm	160	
913.1480-07	Force socket, 21 mm	150	
913.1480-08	Force socket, 20 mm	140	
913.1480-09	Force socket, 19 mm	130	
913.1480-10	Force socket, 18 mm	110	

Rim lock release tool for Toyota/Lexus/Hyundai

- For the quick and easy removal of wheel rim locks
- Left-turning clamping device
- Shaped in the key core then wedged in and then releasing on the thread and push it in so doing
- For manual operation
- Chrome molybdenum

Application range: Toyota, Lexus, Hyundai



			kg
913.1479		Rim lock release tool for Toyota/Lexus/Hyundai	260

WHEEL NUT WRENCH

Telescopic wheel nut wrench

- Variable adjustment
- Ideal for use with passenger cars, vans and saloon cars
- Sturdy design
- Square drive as per DIN 3120/ISO 1174 with ball stop
- For manual operation
- Ergonomic single component handle
- Matt finish
- Chrome vanadium



	L mm	kg
518.1130	370,0 - 535,0	730

Telescopic socket wheel nut wrench

- 6-point
- Variable adjustment
- Ideal for use with passenger cars
- Sturdy design
- For manual operation
- Ergonomic single component handle
- Matt finish
- Chrome vanadium



	mm	L mm	kg
518.1128	17,0 + 19,0	370,0 - 535,0	860

consists of:

			kg
518.1129	Telescopic wheel nut wrench socket, 17+19 mm		175
518.1130	Telescopic wheel nut wrench, 370 - 535 mm		730

Wheel spanner with slip joint for passenger cars

- 6-point
- DIN 3319/ISO 6788
- Sturdy design
- Foldable
- With slip joint for lower lying wheel nuts or for enhancing the leverage
- Ideal for use with passenger cars, vans and saloon cars
- Square drive as per DIN 3120/ISO 1174 with ball stop
- Polished heads
- Matt finish
- Special steel



	mm	L mm	kg
518.1154	17x19x21x1/2"	400,0	1,25

Wheel spanner for passenger cars

- 6-point
- DIN 3319/ISO 6788
- Sturdy design
- Ideal for use with passenger cars, vans and saloon cars
- Square drive as per DIN 3120/ISO 1174 with ball stop
- Polished heads
- Matt finish
- Special steel



	mm	L mm	kg
518.1153	17x19x21x1/2"	400,0	1,25
518.1150	17x19x22x1/2"	400,0	1,25

Wheel spanner for passenger cars

- 6-point
- DIN 3319/ISO 6788
- Extremely sturdy design
- Forged middle piece
- High loads (tested up to 500 N-m)
- Ideal for use with passenger cars, vans, saloon cars and agricultural machinery
- Square drive as per DIN 3120/ISO 1174 with ball stop
- Polished heads
- Matt finish
- Special steel



	mm	L mm	kg
518.1151	17x19x22x13/16"	400,0	1,25
518.1152	17x19x22x1/2"	400,0	1,25

Wheel spanner with slip joint for commercial vehicles

- 6-point
- DIN 3319/ISO 6788
- Sturdy design
- Foldable
- With slip joint for lower lying wheel nuts or for enhancing the leverage
- Ideal for use with vans, commercial vehicles, tractors, agricultural and construction machines
- Square drive as per DIN 3120/ISO 1174 with ball stop
- Polished heads
- Matt finish
- Special steel



	mm	L mm	kg
518.1163	24x27x32x3/4"	600,0	3,18

Wheel spanner for commercial cars

- 6-point
- DIN 3319/ISO 6788
- Sturdy design
- Ideal for use with vans, commercial vehicles, tractors, agricultural and construction machines
- Square drive as per DIN 3120/ISO 1174 with ball stop
- Polished surface
- Chrome vanadium



	mm	L mm	kg
518.1155	24x27x32x3/4"	630.0	3.46

Wheel spanner for commercial cars

- 6-point
- DIN 3319/ISO 6788
- Extremely sturdy design
- Forged middle piece
- Middle piece with screw locking
- High loads (tested up to 2,000 N·m)
- Ideal for use with vans, commercial vehicles, tractors, agricultural and construction machines
- Square drive as per DIN 3120/ISO 1174 with ball stop
- Polished heads
- Matt finish
- Special steel
- Delivery in canvas bag



	mm	L mm	kg
518.1161	24x27x30x32	750.0	6.00
518.1162	24x27x32x3/4"	750.0	5.90

Wheel spanner for commercial cars

- 6-point
- DIN 3319/ISO 6788
- Extremely sturdy design
- Forged middle piece
- High loads (tested up to 2,000 N·m)
- Ideal for use with vans, commercial vehicles, tractors, agricultural and construction machines
- Square drive as per DIN 3120/ISO 1174 with ball stop
- Polished heads
- Matt finish
- Special steel



	mm	L mm	kg
518.1156	24x27x30x32	750.0	5.60
518.1157	24x27x32x3/4"	750.0	5.60
518.1158	27x30x32x33	750.0	5.60
518.1159	27x30x32x3/4"	750.0	5.60

MANUAL RELEASE TOOLS

Telescopic wheel nut wrench

- Variable adjustment
- Ideal for use with passenger cars, vans and saloon cars
- Sturdy design
- Square drive as per DIN 3120/ISO 1174 with ball stop
- For manual operation
- Ergonomic single component handle
- Matt finish
- Chrome vanadium



	L mm	kg
518.1130	370.0 - 535.0	730



CHROMEplus® Flexi head drive handle

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- Burnished head
- Chrome plated and mirror polished
- Chrome vanadium



	L mm	head open	kg
918.3700	260.0	918.3826-1	390
918.3701	450.0	918.3826-1	615

CHROMEplus® Flexible head drive handle

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- Burnished head
- Chrome plated and mirror polished
- Chrome vanadium



		L mm	head open	kg	
918.1291	(A)	1/2"	360.0	918.1292-1	0.66
918.1297	(B)	1/2"	460.0	918.1292-1	1.12
918.1292	(B)	1/2"	600.0	918.1292-1	1.42
918.1293	(B)	1/2"	760.0	918.1292-1	1.63

TORQUE WRENCHES

ERGOTORQUE® basic torque wrench with feed-through square ratchet head

- Actuation accuracy: ±3 % tolerance from the set scale value
- Precise reading accuracy for a minimum 5,000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Double scale in N·m and lbf·ft divisions for precise adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Including test certificate in accordance with DIN EN ISO 6789:2003 national standard



	N·m	lbf·ft	Scale type	L mm	D mm	H mm	kg	
516.1942	1/2"	20-200	15 - 150	10.00	485.0	43.0	27.0	1.12
516.1972	1/2"	60-320	45 - 236	10.00	585.0	43.0	27.0	1.45

ERGOTORQUE® basic torque wrench with bag

- Actuation accuracy: ±3 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5,000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Double scale in N·m and lbf·ft divisions for precise adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Including test certificate in accordance with DIN EN ISO 6789:2003 national standard



		kg
516.1905	6 pcs ERGOTORQUE® basic torque wrench with bag	2.50

consists of:

		kg
516.1942	1/2" ERGObasic torque wrench, insert type ratchet head, 20-200N·m	1.120
516.1443	1/2" Rotary square box wrench	65
918.1202	1/2" CHROMEplus® extension, 125mm	180
918.1247	1/2" CHROMEplus® Hexagon socket, deep, 17mm	140
918.1249	1/2" CHROMEplus® Hexagon socket, deep, 19mm	150
918.1258	1/2" CHROMEplus® Hexagon socket, deep, 21mm	190

ERGOTORQUE® precision torque wrench with rotary mushroom ratchet head

- Actuation accuracy: $\pm 3\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- Torque setting by pulling out and pushing in the slide in knob at the end of the handle
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Double scale in N-m and lbf-ft divisions for precise adjustment
- Includes micrometer scale in N-m divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Individually marked with serial number unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



		N-m	lbf-ft	Drive size	Drive	L mm	D mm	H mm	Weight
516.1442	1/2"	20-200	15-150	1.00	500.0	45.0	23.0	1.30	
516.1472	1/2"	60-320	45-236	1.00	585.0	45.0	23.0	1.45	

ERGOTORQUE® precision torque wrench with reversible ratchet head

- Actuation accuracy: $\pm 3\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Double scale in N-m and lbf-ft divisions for precise adjustment
- Includes micrometer scale in N-m divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 36 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two-component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



		N-m	lbf-ft	Drive size	Drive	L mm	D mm	H mm	Weight
516.1542	1/2"	20-200	15-150	1.00	500.0	45.0	23.0	1.30	
516.1572	1/2"	60-320	45-236	1.00	585.0	45.0	23.0	1.45	

Industrial torque wrench with reversible ratchet head

- Actuation accuracy: $\pm 3\%$ tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- Use in almost all industrial production areas
- For controlled fastening in clockwise and counter clockwise directions
- Double-scale Nm and lbf-ft and/or lbf-in division
- Including a micrometer scale in Nm divisions and lbf-ft and/or lbf-in for precise and fine adjustment
- Clearly audible and noticeable torque release signal
- Setting the torque securely by turning the handle
- Secure locking function within the handle
- Long service-life and high holding times
- Highest precision and reliability even under tough long-term use
- Square drive adaptor in accordance with DIN 3120 - ISO 1174 with ball lock
- Individual serial number for clear product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 - traceable to national standards



		Weight	Drive	Drive	lbf-ft	Drive	D mm	L mm	Weight
516.5155	1/2"	40-200	32	1.00	33-144	0.7	43.5	530.0	1.65
516.5156	1/2"	60-340	32	2.00	52-243	1.5	43.5	610.0	1.80

Torque wrench with quick set feature, reversible

- Actuation accuracy: $\pm 3\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 10.000 tightening cycles
- With idle condition, resetting to the minimum value (0) is not necessary
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Double scale in N-m and lbf-ft divisions for precise adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 72 teeth ratchet mechanism
- Torque setting is simple and quick by sliding the scale using the knurled-head screw
- Secure locking function using the integrated hex screw
- Ergonomic handle designed for comfortable use
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789 national standard



		N-m	lbf-ft	L mm	D mm	H mm	Weight
516.4542	1/2"	40-200	30-150	450.0	38.0	24.0	1.20
516.4572	1/2"	60-350	45-250	590.0	38.0	24.0	1.45

TYRE SERVICE HAMMERS

Recoil free soft faced hammer

- With steel tube handle and plastic handle
- Shock absorbing effect through steel shot in the head
- Up to 100% higher impact effect than normal Soft head hammers
- Shatterproof and wear resistant
- Polyamid heads interchangeable
- For safer working with less recoil



	g	D mm	L1 mm	L2 mm	Handle, upper head upper	Weight
140.5270	360	25.0	270.0	105.0	-	360
140.5271	480	30.0	290.0	105.0	-	480
140.5272	590	35.0	295.0	110.0	-	590
140.5273	850	40.0	300.0	120.0	-	850
140.5274	990	45.0	305.0	120.0	-	990
140.5275	1110	50.0	310.0	125.0	-	1110
140.5276	1290	55.0	325.0	135.0	-	1290
140.5277	1670	60.0	335.0	140.0	-	1670

Rubber hammer

- DIN 5128
- With ash handle
- Hammer head made out of hard rubber



	g	D mm	L1 mm	L2 mm	Handle upper	Weight
140.5221	300	45.0	300.0	80.0	140.5304 140.5404	340
140.5222	500	58.0	310.0	95.0	140.5305 140.5405	560
140.5223	700	63.0	345.0	112.0	140.5306 140.5405	780

Recoil free soft faced hammer

- With polyurethane glassfiber composite handle
- Shock absorbing effect through steel shot in the hammer head
- Substantially higher impact effect than standard conventional hammers
- For safer working with less recoil

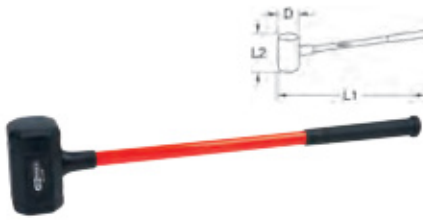


	g	D mm	L1 mm	L2 mm	Handle upper	Weight
140.5252	400	40.0	270.0	81.0	-	480
140.5254	560	40.0	305.0	100.0	-	640
140.5255	645	42.0	325.0	100.0	-	725
140.5256	860	50.0	342.0	118.0	-	940
140.5257	1270	56.0	355.0	118.0	-	1350
140.5258	1720	65.0	370.0	135.0	-	1800

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Recoil free soft faced hammer, extra large

- Fiberglass handle
- Special absorbing effect through steel shot in the hammer head
- Substantially higher impact effect than standard conventional hammers
- Polyurethane glassfiber composite
- For safer working with less recoil



g	D mm	L1 mm	L2 mm	handle type	W	U
140.5259	4500	105.0	890.0	180.0	-	-

WHEEL HUB CLEANING

Steel hand wire brush 3 rowed

- 3 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With steel bristles



H mm	L1 mm	L2 mm	W
201.2305	32.0	290.0	138.0

Steel hand wire brush 4 rowed

- 4 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With steel bristles



H mm	L1 mm	L2 mm	W
201.2311	32.0	290.0	138.0

Stainless steel hand wire hand brush 3 rowed

- 3 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With stainless steel bristles



H mm	L1 mm	L2 mm	W
201.2310	32.0	290.0	138.0

Stainless steel hand wire hand brush 4 rowed

- 4 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With stainless steel bristles



H mm	L1 mm	L2 mm	W
201.2306	32.0	290.0	138.0

Steel wire hand brush 4 rowed

- 4 rowed
- Universal usage
- Plastic hand grip casing
- For surface preparation
- Straight steel wire



H mm	L1 mm	L2 mm	W
201.2325	25.0	285.0	130.0

Brass wire hand brush 3 rowed

- 3 rowed
- Universal usage
- Plastic hand grip casing
- For surface preparation
- Straight brass wire



H mm	L1 mm	L2 mm	W
201.2326	25.0	285.0	130.0

Steel wire brake saddle wire brush 2 rowed, straight and tapered point

- 2 rowed
- Hanging hole
- Tapered point
- Very narrow execution
- For narrow brake saddle shafts
- Robust stock
- Dual component handle
- For removing of stubborn brake dust
- For surface preparation
- Smooth steel wire



B mm	H mm	L1 mm	L2 mm	W
201.2321	12.0	14.0 - 22.0	225.0	90.0

Brass wire brake saddle wire brush 2 rowed, straight

- 2 rowed
- Very narrow execution
- For narrow brake saddle shafts
- Robust stock
- Hanging hole
- Dual component handle
- For removing of stubborn brake dust
- For surface preparation
- Curved brass wire



B mm	H mm	L1 mm	L2 mm	W
201.2322	12.0	22.0	225.0	90.0

Wheel hub bolt grinder set, Ø 40 / 50 mm

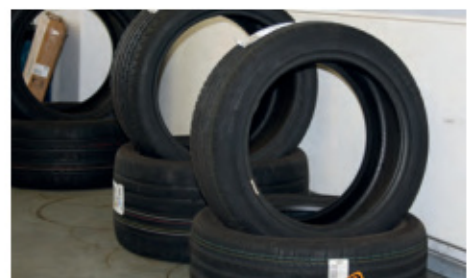
- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs with stud bolts up to Ø 40 or Ø 50 mm in diameter
- Grinding disc with 10 mm pin receptacle with 3 contact surfaces
- For use with boring machines and cordless spanners (max. speed 1,500 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flying sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsification of the wheel tightening torques
- Minimum dust development due to open-pore grinding medium and cup-shaped grinding disc



		W
100.4080	14 pcs Wheel hub bolt grinder set, Ø 40 / 50 mm	470

consists of:

		W
100.4081	Wheel hub grinder without cleaning discs	50
100.4085	Replacement disc set for hub bolt wheel grinder, 5 pcs.	230
100.4088	Replacement disc set large for hub bolt wheel grinder, 5 pcs.	200



Wheel hub bolt grinding discs Ø 40 mm

- 5 replacement discs Ø 40 mm
- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs with stud bolts up to Ø 40 mm in diameter
- Grinding disc with 10 mm pin receptacle with 3 contact surfaces
- For use with boring machines and cordless spanners (max. speed 1,500 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium
- Delivery takes place without grinding disc



		Ø mm	
100.4085	5 pcs	40	230

Wheel hub bolt grinding discs Ø 50 mm

- 5 replacement discs Ø 50 mm
- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs with stud bolts up to Ø 50 mm in diameter
- Grinding disc with 10 mm pin receptacle with 3 contact surfaces
- For use with boring machines and cordless spanners (max. speed 1,500 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium
- Delivery takes place without grinding disc



		Ø mm	
100.4088	5 pcs	50	200

Wheel hub grinding disc set Ø 65 / 105 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideal for use with passenger cars, vans and saloon car wheel hubs
- Grinding disc with 1/2" receptacle
- For use with impact wrenches or cordless impact wrenches (max. speed 7,000 rpm)
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium



		Ø mm	
100.4035	2 pcs	Wheel hub grinding disc set Ø 65 / 105 mm	300

consists of:

100.4038	Wheel hub grinder Ø 65 mm	100
100.4039	Wheel hub grinder Ø 105 mm	200



Wheel hub grinding disc set Ø 65 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideal for use with passenger cars, vans and saloon car wheel hubs
- Grinding disc with 1/2" receptacle
- For use with impact wrenches or cordless impact wrenches (max. speed 7,000 rpm)
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium



		Ø mm	
100.4036	5 pcs	65	575

Wheel hub grinding disc set Ø 105 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideal for use with passenger cars, vans and saloon car wheel hubs
- Grinding disc with 1/2" receptacle
- For use with impact wrenches or cordless impact wrenches (max. speed 7,000 rpm)
- No flyi g sparks
- Low wear - maximum service life (about 50 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium



		Ø mm	
100.4037	5 pcs	105	625

Wheel hub grinder set, Ø 160 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs up to Ø 160 mm
- Optimised for the latest wheel hubs with larger inner diameter (Ø 75 mm)
- Grinding disc with 10 mm pin receptacle with 3 contact surfaces
- For use with boring machines and cordless spanners (max. speed 1,500 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 100 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimum dust development due to open-pore grinding medium and cup-shaped grinding disc



100.4070	4 pcs	Wheel hub grinder set, Ø 160 mm

consists of:

100.4071	Wheel hub grinder without cleaning discs	270
100.4075	Replacement discs-set for wheel hub grinder 100.4070, 3pcs.	530

Replacement discs set for wheel hub grinder

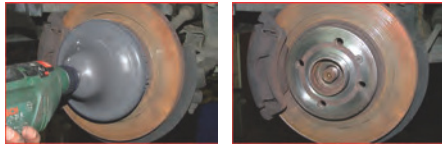
- 3 replacement discs Ø 160 mm
- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs up to Ø 160 mm
- Optimised for the latest wheel hubs with larger inner diameter (Ø 75 mm)
- For use with boring machines and cordless spanners (max. speed 1,000 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 100 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium
- Delivery takes place without grinding disc



		Ø mm	
100.4075	3 pcs	160	530

Wheel hub grinder set, Ø 200 mm

- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs up to Ø 200 mm
- Grinding disc with 10 mm pin receptacle with 3 contact surfaces
- For use with boring machines and cordless spanners (max. speed 1,000 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 100 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimum dust development due to open-pore grinding medi-um and cup-shaped grinding disc



100.4090	3 pcs	Wheel hub grinder set, Ø 200 mm	1.01
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consists of:

100.4091	Wheel hub grinder without cleaning discs	470
100.4095	Replacement discs set for wheel hub grinder 100.4090, 2pcs.	530



Wheel hub grinding discs, Ø 200 mm

- 2 replacement discs Ø 200 mm
- For the optimal cleaning of wheel hubs and brake discs
- Ideally used for passenger cars, vans and saloon car wheel hubs up to Ø 200 mm
- For use with boring machines and cordless spanners (max. speed 1,000 rpm)
- Velcro closure for the quick replacement of the cleaning disc
- No flyi g sparks
- Low wear - maximum service life (about 100 vehicles per disc)
- Clean contact surfaces prevent falsifi ation of the wheel tightening torques
- Minimal dust development due to open-pore grinding medium
- Delivery takes place without grinding disc



100.4095	2 pcs	Ø mm	g
		200	530

TYRE PRESSURE CONTROL SYSTEM SETS

TPMS Tool set for tyre pressure valve control systems

- Ideal configur ation for the proper assembly and disassembly of tyre pressure monitoring sensors and the associated special tyre valves
- With this product line, all assembly and service work can be carried out for standard TPM [tyre pressure monitoring] systems.
- Adjustable calibrated torque wrench (1 - 25 N-m) covers all known tightening torques
- The torque wrench has a release accuracy of +/- 3% and exceeds the requirements of the ETRTO values
- Contains all necessary tools for avoiding screws and sensors and for ensuring a secure bolted connection and seal
- Includes expanded accessories for standard snap-in tyre valves
- In durable plastic storage case



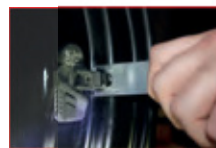
100.1180	13 pcs	TPMS Tool set for tyre pressure valve control systems	2.20
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consists of:

516.1412	ERGOprec torque wrench, mushroom head	460
516.1413	Mushroom head, 3/8"	21
150.2029	Tyre valve torque screwdriver, 0,25 Ncm	50
150.2031	Tyre valve torque screwdriver, 0,45Ncm	50
150.2022	Tyre valve screwdriver, 150mm	40
911.1442	TX bit socket, 1/4", T10	10
911.1443	TX bit socket, 1/4", T15	10
911.1444	TX bit socket, 1/4", T20	10
917.1431	CLASSIC hex socket deep, 1/4", 11mm	50
917.1432	CLASSIC hex socket deep, 1/4", 12mm	50
911.1434	Spinner handle, 1/4", 150mm	140
156.0111	Pin punch octagonal shaft, 2mm	40
100.1182	Valve sealing tool, for 11 mm valves	9

Valve sealing tool

- Ideally suited for the injury-free assembly and disassembly of rubber baskets with TPMS valves
- Suitable for 11 mm valves
- No sharp blades or edges
- Sturdy metal design



100.1182	Length mm	Width mm	Height mm	g
	80.0	25.0	2.0	9

Hook tool, 135° bent

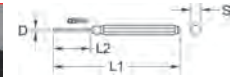
- Ideal for removing and use of O rings and seals
- With one component handle
- With hanging hole
- Special steel



550.1049	L mm	g
	130.0	27

TPMS brace

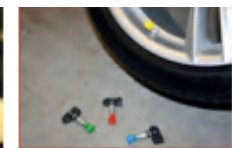
- Ideally suited as bracket for valve assembly
- No twisting when tightening the union nut
- Easy and safe handling
- Special steel



156.0111	L1 mm	L2 mm	D mm	S mm	g
	115.0	30.0	2.0	8.0	40

TPMS tyre bleeder set

- Suitable for bleeding tyres when installing the TPMS wheel pressure sensors
- Colour coding is used for the correct mounting of the wheel
- Reprogramming the sensors is usually therefore eliminated
- Prevents incorrect mounting of the wheels



100.1185	4 pcs	TPMS tyre bleeder set	133
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consists of:

100.1186	TPMS tyre bleeder, yellow, front left	28
100.1187	TPMS tyre bleeder, red, front right	28
100.1188	TPMS tyre bleeder, green, left rear	28
100.1189	TPMS tyre bleeder, blue, right rear	28

TPMS service set for tyre pressure control systems 01

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut: 4.25 Nm

Application range:
Saab: 9.7X
Chevrolet: Camaro, Corvette, Trailblazer
Cadillac: STS, XLR, CTS, SRX

Reference number: 72-20-223



Reference number		5	
149.1001	72-20-223		

TPMS service set for tyre pressure control systems 02

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut: 6 Nm

Application range:
Toyota: 4 Runner, Auris, Avalon, Avenis, Avenis Break, Aygo, Camry, Corolla, FJ Cruiser, GT86, Highlander, IQ, Land Cruiser, Land Cruiser SW V8, Land Cruiser V8, Matrix, Prius + (hybrid), Prius Rechargeable, RAV 4 I, RAV 4, Solara, Urban Cruiser, Venza, Verso, Verso-S, Yaris
Lexus: CT, ES, GS, GX470, IS Coupe, IS Coupe Convert, IS Series, IS-F, LS, LX, RX, SC 430
Chrysler: 300, 300 C, Grand Voyager, Sebring, Voyager
Dodge: Avenger, Caliber, Challenger, Charger, Dakota, Journey, Nitro, Ram Series Pickup
Jeep: Cherokee Grand, Commander, Compass, Grand Cherokee, Patriot, Wrangler

Reference number: 72-20-219, TPK66138



Reference number		5	
149.1002	72-20-219, TPK66138		

TPMS service set for tyre pressure control systems 03

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 8 Nm

Application range:
Volkswagen: New Beetle, Passat, Passat Syncro

Reference number: 72-20-211, TPK65660



Reference number		5	
149.1003	72-20-211, TPK65660		

TPMS service set for tyre pressure control systems 04

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 8 Nm

Application range:
Opel: Ampera, Astra GTC, Astra H, Astra J, Astra Sports Tourer, Astra Twintop, Cascada, Insigna, Insigna OPC, Insigna Tourer, Signum, Vectra, Vectra Estate, Zafiro B, Zafiro C, Zafiro A Tourer
Volvo: S60, V70, XC70, XC90
Saab: 10, 9-3, 9-5
Chrysler: 300C, Sebring, Voyager
Chevrolet: Volt
Dodge: Caliber, Dakota, Nitro
Jeep: Commander, Grand Cherokee, Wrangler
Lotus: Elise, Elise S, Evora, Evora S, Exige, Exige S
Nissan: Primera

Reference number: 72-20-208, TPK65657



Reference number		5	
149.1004	72-20-208, TPK65657		

TPMS service set for tyre pressure control systems 05

- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 4 Nm

Application range:
Hyundai: i40 (VF)



Reference number		3	
149.1005	-		

TPMS service set for tyre pressure control systems 06

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 8 Nm

Application range:
Volvo: S60, S80, V60, V70, XC60, XC70
Ford: Galaxy, Mondeo IV, S-Max

Reference number: 72-20-216, TPK66070, 7020K



Reference number		10	
149.1006	72-20-216, TPK66070, 7020K		

TPMS service set for tyre pressure control systems 07

- For Schrader manufacturer
- The sensor and the valve service set must be checked during every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the screw 1.4 Nm

Application range:
Opel: Adam, Antara, Mokka
Saab: 9.4X
Citroën: Berlingo, Berlingo Multispace, C4, C4 Picasso, DS4, DS5, Jumpy
Peugeot: 3008, 3008 Hybrid 4, 307 Facelift, 308, 308 CC, 308 Gti, 308 SW, 5008, Expert, RCZ, RCZ THP 200
Fiat: 500, 500 C, 500 L, Freemont
Lancia: Thema, Voyager
Ford: E series van, E450 Super Duty, Escape, Explorer, F series pickup, Fiesta, Focus, Fusion, Mondeo, Mustang, Navigator, Super Duty Van, Taurus, Transit Connect
Cadillac: CTS
Chevrolet: Malibu, Trax
Chrysler: 300, 300 C, Grand Voyager, Sebring, Town & Country Van, Voyager
Dodge: Avenger, Caliber, Caravan Grand, Challenger, Charger, Dakota, Durango, Grand Caravan, Journey, Nitro, Ram Series pickup
Jeep: Cherokee Grand, Commander, Compass, Grand Cherokee, Liberty, Patriot, Wrangler
Lincoln: MKZ
Mercury: Mariner, Milan
Mazda: Tribute
Hyundai: Veloster

Reference number: 72-20-401, 20018, VS-950



Reference number		84	
149.1007	72-20-401, 20018, VS-950		

TPMS service set for tyre pressure control systems 08

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 8 Nm

Application range:
Mazda: 3, 5, 6, CX7, MX5

Reference number: 72-20-218, TPK66072, 7000K



Reference number		9	
149.1008	72-20-218, TPK66072, 7000K		



TPMS service set for tyre pressure control systems 09

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 8 Nm

Application range:
Kia: Carens, Cee'd, Cee'd SW, Opima, Pro Cee'd, Sorento, Soul 1.6 CVVT, Venga
Hyundai: i20, i30, Santa Fe

Reference number: 72-20-217, TPK66071



Reference number		
149.1009	72-20-217, TPK66071	8

TPMS service set for tyre pressure control systems 10

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 8 Nm

Application range:
Citroën: C4, C5 II, C5 III, C6, C8
Peugeot: 207, 307, 407, 508, 607 II, 807, 1007
Mazda: 3, 5, 6, CX7, MX5
Volvo: S60, S80, V60, V70, XC60, XC70
Ford: Galaxy, Mondeo IV, S-Max
Land Rover: Discovery, Evoque, FreeLander, Range Rover
Jaguar: X-Type, XF, XJ (X350) Limousine, XK New
Fiat: Ulysse Nuovo
Lancia: Phedra

Reference number: 72-20-210, TPK65659



Reference number		
149.1010	72-20-210, TPK65659	8

TPMS service set for tyre pressure control systems 11

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 4.25 Nm

Application range:
Renault: Espace IV, Koleos, Laguna II, Laguna III, Latitude, Megane I, Megane II, Megane III, Modus, Scenic I, Scenic II, Scenic III, Vel Satis

Reference number: 72-20-205, TPK65654



Reference number		
149.1011	72-20-205, TPK65654	5

TPMS service set for tyre pressure control systems 12

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 4.25 Nm

Application range:
Citroën: C5 I, C8
Peugeot: 607, 807
Fiat: Ulysse
Lancia: Phedra

Reference number: 72-20-207, TPK65656



Reference number		
149.1012	72-20-207, TPK65656	5

TPMS service set for tyre pressure control systems 13

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 6 Nm

Application range:
Mercedes: AMG (W197 and others), C-Class, CLK (W207), CLK (W209), CLS (W218), E-Class (W212), G-Class, ML-Class, S-Class (W221), SL (W231), SLC (W212), SLK, Smart, Smart FourTwo, Sprinter

Reference number: TPK65964



Reference number		
149.1013	TPK65964	6

TPMS service set for tyre pressure control systems 14

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 7.5 Nm

Application range:
Renault: Clio III, Espace IV, Koleos, Laguna II, Laguna III, Latitude, Megane I, Megane II, Megane III, Modus, Scenic I, Scenic II, Scenic III, Vel Satis

Reference number: 72-20-206, TPK65655



Reference number		
149.1014	72-20-206, TPK65655	6

TPMS service set for tyre pressure control systems 15

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 6 Nm

Application range:
Mercedes: AMG, C-class, CLK (W207), CLK (W209), CLS (W218), E-class(W212), G-class, ML-class, S-class(W221), SL (W231), SLC (W212), SLK, Sprinter
Smart: ForTwo

Reference number: TPK65962



Reference number		
149.1015	TPK65962	5

TPMS service set for tyre pressure control systems 16

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 8 Nm

Application range:
Infiniti: G37 Coupe, G37 Sedan, J50 EX37, R35 GT-R, S51 FX37
Nissan: GTR
Renault: Koleos

Reference number: 72-20-212, TPK65961



Reference number		
149.1016	72-20-212, TPK65961	5

TPMS service set for tyre pressure control systems 17

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 8.5 Nm

Application range:
Renault: Megane II, Scenic II
Chrysler: Jeep Grand Cherokee

Reference number: 72-20-209, TPK65658



Reference number		
149.1017	72-20-209, TPK65658	6

TPMS service set for tyre pressure control systems 18

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 4.25 Nm

Application range:
Renault: Laguna III, Latitude, Megane Berline, Megane Coupe, Megane Estate, Megane III, Megane RS, Scenic III

Reference number: 72-20-214, TPK65963



Reference number		
149.1018	72-20-214, TPK65963	9



TPMS service set for tyre pressure control systems 19

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 9 Nm

Application range:
Hyundai: i20, i30
Kia: Cee'd SW, Pro Cee'd, Soul 1.6 CVT

Reference number: TPK65768



Reference number		
149.1019	TPK65768	8

TPMS service set for tyre pressure control systems 20

- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 7 Nm

Application range:
Hyundai



Reference number		
149.1020	-	5

TPMS service set for tyre pressure control systems 21

- For manufacturer VDO TG1B sensor
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 8 Nm

Application range:
Chrysler: 300 C, Grand Voyager, Sebring, Voyager
Dodge: Avenger, Caliber, Dakota, Journey, Nitro, Ram Series Pickup
Jaguar: F-Type (TG1B), X-Type (TG1B), XF (TG1B), XFR (TG1B), XJ X350 (TG1B), XK New (TG1B), XKR (TG1B)
Jeep: Commander, Compass, Grand Cherokee, Patriot, Wrangler
Land Rover: Discovery (TG1B), Evoque (TG1B), Free Lander (TG1B), Free Lander 2 (TG1B), Range Rover (TG1B), Range Rover Vogue (TG1B), Range Sport V8 SC (TG1B), Range V8 S.C. (TG1B)

Reference number: 72-20-422



Reference number		
149.1021	72-20-422	12

TPMS service set for tyre pressure control systems 22

- For manufacturer Schrader EZ sensor
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 8 Nm
Tightening torque of the screw 1.4 Nm

Application range:
Mercedes: AMG, C-class, CL-class, CLK, CLS, E-class, G-class, GL-class, GLK-class, M-class, ML-class, R-class, S-class, SL, SL-class, SLK, SLK-class, SLS, Sprinter, Viano, Vito NVC 2
Smart: ForTwo, ForTwo Convertible, ForTwo Coupe
Opel: Ampera, Antara, Astra, Cascada, Insignia, Mokka, Zafira C, Zafira Tourer
Peugeot: 3008, 307 Facelift, 308, 5008, Espace IV, Expert, Koleos, Laguna II, Megane, RCZ, Scenic, Vel Satis
Volkswagen: CC, Passat, Tiguan
Volvo: C30, C70, S40, S60, S80, V50, V60, V70, XC60, XC70, XC90
Saab: 9.3, 9.4X, 9.5
Citroën: Berlingo, C4, DS4, DS5, Jumpy
Ford: Galaxy, Mondeo IV, S-Max
Cadillac: CTS, STS, XLR
Chevrolet: Camaro, Corvette, Malibu, Trax, Volt
Chrysler: 300C, Grand Voyager, Sebring, Voyager
Dodge: Avenger, Caliber, Dakota, Nitro, Ram Series Pickup
Infiniti: EX37, FX30, FX37, FX50, G37, G37 Berline, G37 Convertible, G37 Coupe, G37 Sedan, J50 EX37, M, S51 FX37
Jeep: Commander, Compass, Grand Cherokee, Patriot, Wrangler
Lotus: Elise, Elise S, Evora, Evora S, Exige, Exige S
Hyundai: i20, i30, i30SW, ix20
Kia: Cee'd SW, Optima, Pro Cee'd, Sorento, Soul 1.6 CVT, Venge
Nissan: GT-R, GT-R Track Pack, Primera

Reference number: 72-20-116



Reference number		
149.1022	72-20-116	37

TPMS service set for tyre pressure control systems 23

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 6 Nm

Application range:
Mercedes: CLS (W219), E-class (W211), M-class (W164), R-class (W251), S-class (W221), SL (W230)

Reference number: 72-20-102, TPK65661



Reference number		
149.1023	72-20-102, TPK65661	17

TPMS service set for tyre pressure control systems 24

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the screw 1.4 Nm

Application range:
Opel: Adam, Antara, Mokka
Ford: Explorer, Fiesta, Focus, Mondeo, Navigator
Citroën: Berlingo, C4, DS4, DS5, Jumpy
Peugeot: 307 Facelift, 308, 3008, 5008, Expert, RCZ
Fiat: 500, Freemont
Lancia: Thema, Voyager
Saab: 9.4X
Cadillac: CTS
Chevrolet: Malibu, Trax
Chrysler: 300, 300 C, Grand Voyager, Sebring, Town & Country Van, Voyager
Dodge: Avenger, Caliber, Caravan Grand, Challenger, Charger, Dakota, Durango, Grand Caravan, Journey, Nitro, Ram Series pickup
Jeep: Cherokee Grand, Commander, Compass, Liberty, Patriot, Wrangler
Hyundai: Veloster

Reference number: 72-20-101



Reference number		
149.1024	72-20-101	21

TPMS service set for tyre pressure control systems 25

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:
Tightening torque of the nut 6 Nm
Tightening torque of the screw 1.4 Nm

Application range:
Chrysler: 300C, Sebring, Voyager
Dodge: Caliber, Dakota, Nitro
Jeep: Commander, Grand Cherokee, Wrangler

Reference number: TPK66086



Reference number		
149.1025	TPK66086	12

TPMS service set for tyre pressure control systems 26

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:

Tightening torque of the nut 6 Nm

Application range:

Mercedes: Sprinter NVC3 (906), Vito NVC2 (639), Viano Dodge

Reference number: 72-20-104, TPK65958, 1098K



Reference number		Icon	
149.1026	72-20-104, TPK65958, 1098K		22

TPMS service set for tyre pressure control systems 27

- for manufacturers TRW, HUF/BERU
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:

Tightening torque of the nut 4 Nm
Tightening torque of the screw 4 Nm

Application range:

Audi: A4, A6, A8, Q7, R8, RS4, RS6, S4, S6, S8
Volkswagen: CC, Passat (B7), Passat CC, Phaeton, Tiguan (5N), Touareg
Porsche: 911, 997, Boxster, Carrera GT, Cayenne, Cayman, Panamera
Mercedes: AMG E-class (W210 AMG), CLS (C219), E-class, S-class, SL Roadster, SLR (R199), SL-Roadster (R230)
BMW: 1-series, 3-series, 5-series, 6-series, 7-series, Alpina, X1 (E84), X3 (E83), X5 (E53), X5 (E70), X6, Z4 Coupe 30i, Z4 Roadster 30i
Mini: Clubman, Convertible, Cooper, Cooper S, Countryman, Coupe, Paceman, Roadster
Rolls Royce: Cabrio (RR02), Convertible (RR02), Phantom (RR01), Phantom 2 Coupe
Alfa Romeo: 159, 8C (920), Brera, Giulietta, Mito, Spider
Fiat: Bravo, Cromo, Doblo, Nuova Bravo, Punto Grand
Lancia: Delta, Delta 2
Ferrari: 458 Italia (F142), 458 Italia Spider, 550 Maranello, 575 M-Maranello, 599 GTB (F141), 599 GTO, 612 Scaglietti (F137), California (F149), Enzo (F140), F430 (F131 evo), F430 Spider, FXX
Lamborghini: Aventador, Gallardo (US), Murcielago LP640 (US)
Aston Martin: Rapide, DB9, DBS, V12 Vantage, V8 Vantage, Vanquish
Bentley: Arnage, Azure, Continental Flying Spur (611), Continental GT (614), Continental GT (614), Continental GT S., Continental GTC, Continental Sports, Flying Spur 611, Mulsanne
Maserati: Coupe (M145), Coupe (M154), Quattroporte (M139)
Maybach: 57, 62, Landaulet
Land Rover: Range Rover (L30)

Reference number: 72-20-103, TPK65731



Reference number		Icon	
149.1027	72-20-103, TPK65731		17

TPMS service set for tyre pressure control systems 28

- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:

Tightening torque of the nut 4 Nm
Tightening torque of the screw 4 Nm

Application range:

Audi: A4, A6, A8, Q7, R8, RS4, RS6, S4, S6, S8
Volkswagen: CC, Passat (B7), Passat CC, Phaeton, Tiguan (5N), Touareg
Porsche: 911, 997, Boxster, Carrera GT, Cayenne, Cayman, Panamera
Mercedes: AMG E-class (W210 AMG), CLS (C219), E-class, S-class, SL Roadster, SLR (R199), SL-Roadster (R230)
BMW: 1-series, 3-series, 5-series, 6-series, 7-series, Alpina, X1 (E84), X3 (E83), X5 (E53), X5 (E70), X6, Z4 Coupe 30i, Z4 Roadster 30i
Mini: Clubman, Convertible, Cooper, Cooper S, Countryman, Coupe, Paceman, Roadster
Rolls Royce: Cabrio (RR02), Convertible (RR02), Phantom (RR01), Phantom 2 Coupe
Alfa Romeo: 159, 8C (920), Brera, Giulietta, Mito, Spider
Fiat: Bravo, Cromo, Doblo, Nuova Bravo, Punto Grand
Lancia: Delta, Delta 2
Ferrari: 458 Italia (F142), 458 Italia Spider, 550 Maranello, 575 M-Maranello, 599 GTB (F141), 599 GTO, 612 Scaglietti (F137), California (F149), Enzo (F140), F430 (F131 evo), F430 Spider, FXX
Lamborghini: Aventador, Gallardo (US), Murcielago LP640 (US)
Aston Martin: Rapide, DB9, DBS, V12 Vantage, V8 Vantage, Vanquish
Bentley: Arnage, Azure, Continental Flying Spur (611), Continental GT (614), Continental GT (614), Continental GT S., Continental GTC, Continental Sports, Flying Spur 611, Mulsanne
Maserati: Coupe (M145), Coupe (M154), Quattroporte (M139)
Maybach: 57, 62, Landaulet
Land Rover: Range Rover (L30)



Reference number		Icon	
149.1028	-		16

TPMS service set for tyre pressure control systems 29

- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:

Tightening torque of the nut 4 Nm
Tightening torque of the screw 4 Nm

Application range:

Audi: A4, A6, A8, Q7, R8, RS4, RS6, S4, S6, S8
Volkswagen: CC, Passat (B7), Passat CC, Phaeton, Tiguan (5N), Touareg
Porsche: 911, 997, Boxster, Carrera GT, Cayenne, Cayman, Panamera
Mercedes: AMG E-class (W210 AMG), CLS (C219), E-class, S-class, SL Roadster, SLR (R199), SL-Roadster (R230)
BMW: 1-series, 3-series, 5-series, 6-series, 7-series, Alpina, X1 (E84), X3 (E83), X5 (E53), X5 (E70), X6, Z4 Coupe 30i, Z4 Roadster 30i
Mini: Clubman, Convertible, Cooper, Cooper S, Countryman, Coupe, Paceman, Roadster
Rolls Royce: Cabrio (RR02), Convertible (RR02), Phantom (RR01), Phantom 2 Coupe
Alfa Romeo: 159, 8C (920), Brera, Giulietta, Mito, Spider
Fiat: Bravo, Cromo, Doblo, Nuova Bravo, Punto Grand
Lancia: Delta, Delta 2
Ferrari: 458 Italia (F142), 458 Italia Spider, 550 Maranello, 575 M-Maranello, 599 GTB (F141), 599 GTO, 612 Scaglietti (F137), California (F149), Enzo (F140), F430 (F131 evo), F430 Spider, FXX
Lamborghini: Aventador, Gallardo (US), Murcielago LP640 (US)
Aston Martin: Rapide, DB9, DBS, V12 Vantage, V8 Vantage, Vanquish
Bentley: Arnage, Azure, Continental Flying Spur (611), Continental GT (614), Continental GT (614), Continental GT S., Continental GTC, Continental Sports, Flying Spur 611, Mulsanne
Maserati: Coupe (M145), Coupe (M154), Quattroporte (M139)
Maybach: 57, 62, Landaulet
Land Rover: Range Rover (L30)



Reference number		Icon	
149.1029	-		19



TPMS service set for tyre pressure control systems 30

- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:

Tightening torque of the nut 4 Nm
Tightening torque of the screw 4 Nm

Application range:

Audi: A4, A6, A8, Q7, R8, RS4, RS6, S4, S6, S8
Volkswagen: CC, Passat (B7), Passat CC, Phaeton, Tiguan (5N), Touareg
Porsche: 911, 997, Boxster, Carrera GT, Cayenne, Cayman, Panamera
Mercedes: AMG E-class (W210 AMG), CLS (C219), E-class, S-class, SL Roadster, SLR (R199), SL-Roadster (R230)
BMW: 1-series, 3-series, 5-series, 6-series, 7-series, Alpina, X1 (E84), X3 (E83), X5 (E53), X5 (E70), X6, Z4 Coupe 30i, Z4 Roadster 30i
Mini: Clubman, Convertible, Cooper, Cooper S, Countryman, Coupe, Paceman, Roadster
Rolls Royce: Cabrio (RR02), Convertible (RR02), Phantom (RR01), Phantom 2 Coupe
Alfa Romeo: 159, 8C (920), Brera, Giulietta, MiTo, Spider
Fiat: Bravo, Cromia, Doblo, Nuova Bravo, Punto Grand
Lancia: Delta, Delta 2
Ferrari: 458 Italia (F142), 458 Italia Spider, 550 Maran Evol., 575 M-Maranello, 599 GTB (F141), 599 GTO, 612 Scaglietti (F137), California (F149), Enzo (F140), F430 (F131 evo), F430 Spider, FXX
Lamborghini: Aventador, Gallardo (US), Murcielago LP640 (US)
Aston Martin: Rapide, DB9, DBS, V12 Vantage, V8 Vantage, Vanquish
Bentley: Arnage, Azure, Continental Flying Spur (611), Continental GT (614), Continental GT (614), Continental GT S., Continental GTC, Continental Sports, Flying Spur 611, Mulsanne
Maserati: Coupe (M145), Coupe (M154), Quattroporte (M139)
Maybach: 57, 62, Landaulet
Land Rover: Range Rover (L30)



Reference number			
149.1030	-	19	

TPMS service set for tyre pressure control systems 31

- For Schrader manufacturer
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:

Tightening torque of the nut 6 Nm

Application range:

Mercedes: A-class, AMG, B-class, C-class, CL-class, CLK, CLS, E-class, G-class, GL-class, GLK, G-car, M-class, ML-class, R-class, S-class, SL, SLAMG, SLK, SLS, Sprinter, Vario, Vito
Smart: ForTwo, ForTwo Convertible, ForTwo Coupe
Jeep: Commander, Compass, Grand Cherokee, Patriot, Wrangler
Dodge: Avenger, Caliber, Dakota, Journey, Nitro, Ram Series Pickup

Reference number: 72-20-105, TPK43148



Reference number			
149.1031	72-20-105, TPK43148	12	

TPMS service set for tyre pressure control systems 32

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:

Tightening torque of the nut 8 Nm

Application range:

Volvo: C30, C70, S40, S60, S80, V50, V60, V70, XC60, XC70
Renault: Laguna III, Latitude, Megane, Scenic III, SX4
Ford: Galaxy, Mondeo IV, S-Max
Chrysler: 5, 300, Grand Voyager, Sebring, Voyager
Dodge: Avenger, Caliber, Dakota, Journey, Nitro, Ram Series Pickup
Jeep: Commander, Compass, Grand Cherokee, Patriot, Wrangler
Land Rover: Discovery (TG1C), Evoque (TG1C), Free Lander (TG1C), Free Lander 2 (TG1C), Range Rover (TG1C), Range Rover Vogue (TG1C), Range Sport V8 SC (TG1C), Range V8 S.C. (TG1C)
Jaguar: F-Type (TG1C), X-Type (TG1C), XF (TG1C), XFR (TG1C), XJ X350 (TG1C), XK New (TG1C), XKR (TG1C)
Hyundai: i20, i30, i30SW, ix20
Kia: Cee'd SW, Optima, Pro Cee'd, Sorento, Soul 1.6 CVT, Venga
Mazda: 2, 3, 5, 6, CX-5, CX-7, MX-5, MX-5 Roadster C

Reference number: 72-20-403, TPK43171



Reference number			
149.1032	72-20-403, TPK43171	7	

TPMS service set for tyre pressure control systems 33

- For manufacturer VDO
- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of the valve insert and cap, gasket or sealing ring and union nut
- Suitable for steel or aluminium rims

Technical data:

Tightening torque of the nut 8 Nm

Application range:

Jaguar: X-Type, XF, XJ (X350) Limousine, XK New
Land Rover: Discovery, Evoque, FreeLander, Range Rover
Mazda: 3, 5, 6, CX7, MX5

Reference number: TPK43211



Reference number			
149.1033	TPK43211	9	

Valve insert

- Suitable for all valves
- Short
- Red rubber gasket
- Nickel plated



Contents			
149.1035	25	25	

Valve cap

- Suitable for all valves
- Silver
- Plastic



Contents			
149.1036	25	25	

TPMS service product range for tyre pressure control systems

- The entire valve service set of the sensor must be replaced with every tyre change or tyre service
- Consists of valve insert and cap, gasket and sealing ring, union nut and (sometimes) marking ring
- Suitable for the most common European combinations of valve and TPMS sensor
- Assigned using the features of manufacturer, model and year
- All parts required for a repair are included
- Suitable for steel or aluminium rims
- In durable plastic storage case



Reference number			
149.0100	150 pcs TPMS service product range for tyre pressure control systems	450	

consists of:

X			
149.1002	8 TPMS service set for tyre pressure control systems 02	5	
149.1003	8 TPMS service set for tyre pressure control systems 03	5	
149.1004	8 TPMS service set for tyre pressure control systems 04	5	
149.1005	8 TPMS service set for tyre pressure control systems 05	3	
149.1006	8 TPMS service set for tyre pressure control systems 06	10	
149.1008	8 TPMS service set for tyre pressure control systems 08	9	
149.1009	8 TPMS service set for tyre pressure control systems 09	8	
149.1016	8 TPMS service set for tyre pressure control systems 16	5	
149.1019	8 TPMS service set for tyre pressure control systems 19	8	
149.1020	8 TPMS service set for tyre pressure control systems 20	6	

