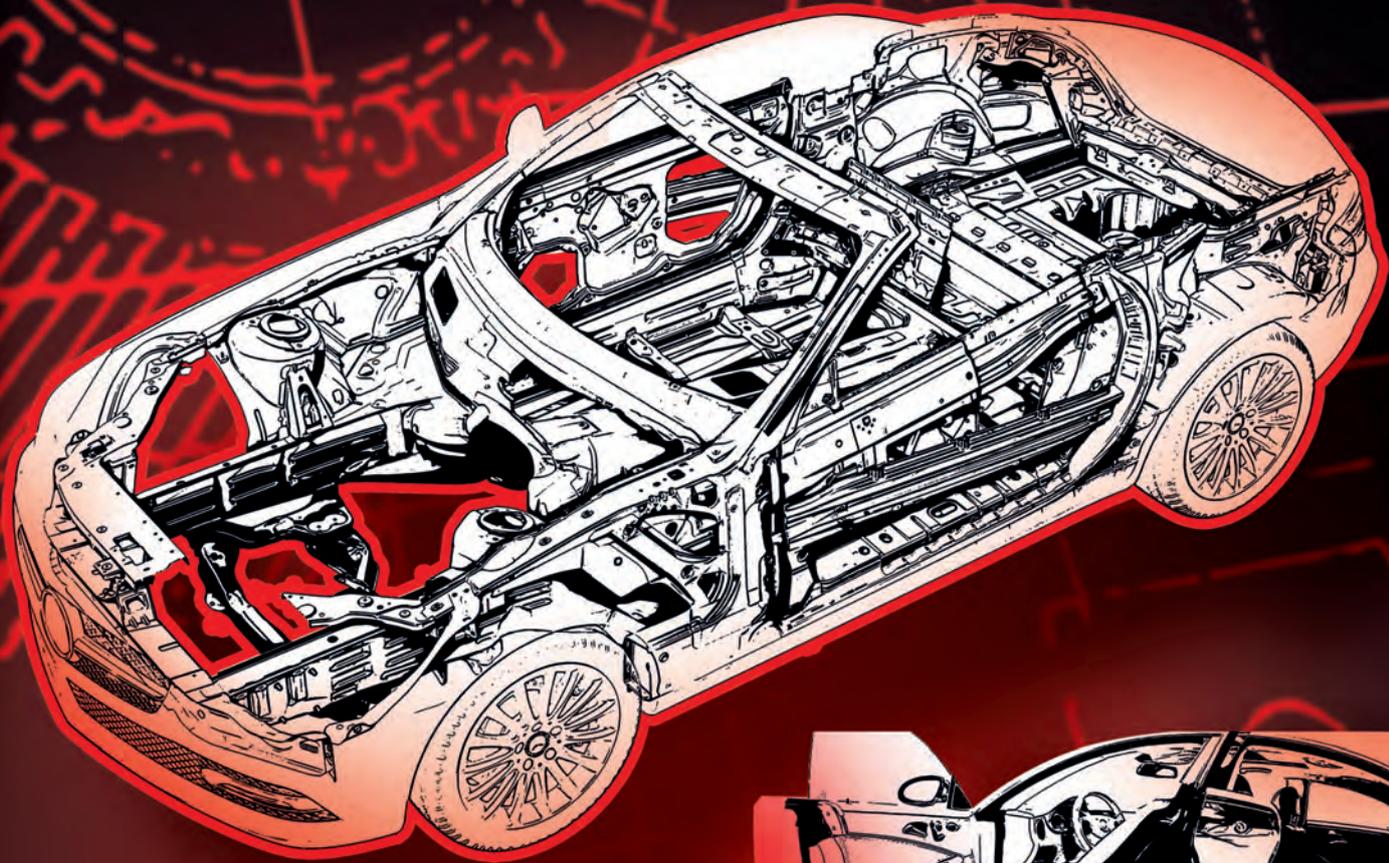


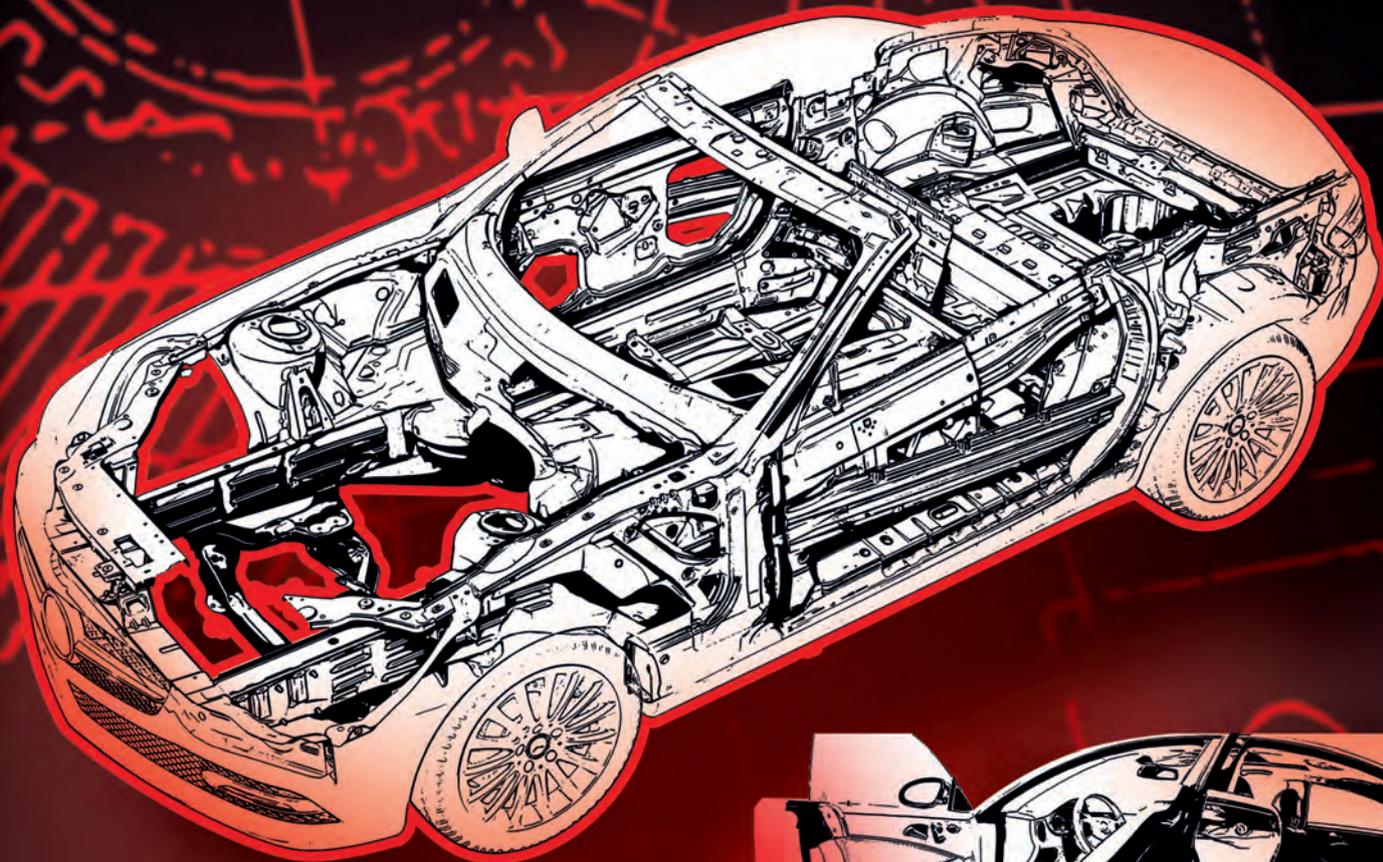
# K15



**KS TOOLS**



BODYWORK AND INTERIOR →



Innovation is  
our mission!



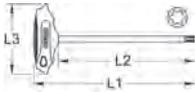
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## VEHICLE LIGHTING AND BUMPERS

### ERGOTORQUE<sup>plus</sup> T-handle TX key wrench, long

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

**Application range:** Fittings, engine, bumper, headlamps, fuse boxes, etc.

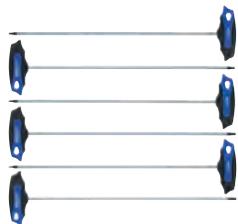


	⚙️	L1 mm	L2 mm	L3 mm	⚖️
158.8051	T10	403.0	373.0	80.0	30
158.8052	T15	403.0	373.0	80.0	30
158.8053	T20	403.0	373.0	100.0	40
158.8054	T25	408.0	373.0	100.0	40
158.8055	T27	408.0	373.0	100.0	40
158.8056	T30	408.0	373.0	100.0	45

### ERGOTORQUE<sup>plus</sup> T-handle TX key wrench set

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

**Application range:** Fittings, engine, bumper, headlamps, fuse boxes, etc.



	⚙️
158.8050	6 pcs T10 - T15 - T20 - T25 - T27 - T30
	375

### Headlamp adjusting key Audi

- Ideal for the adjustment of the headlamps
- Extra-long design
- with T-handle
- With suspension hole
- Continuous hardened
- Multi-tooth head with centring pin, bronzed
- Chrome plated
- Chrome vanadium

**Application range:** Audi A4 (8K), A6 (4G), A5 (8T)

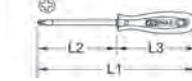


	Total length mm	⚖️
150.8105	345.0	170

### ERGOTORQUE<sup>plus</sup> screwdriver for phillips screws PH

- DIN/ISO 8764
- 1 piece handle
- Optimal power transmission
- With suspension hole
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

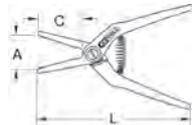
**Application range:** Headlamp adjustment screwdriver for Volkswagen Golf 3, Vento, etc.



		L1 mm	L2 mm	L3 mm	⚖️
911.1188	PH 2	350.0	250.0	100.0	140

### Incandescent bulbs pliers

- With protecting foam material
- For the removal and replacement of incandescent bulbs
- With internal spring
- Plier jaws with foam protection material
- Suited for glass socket lamps of 4,0 mm until 6,0 mm
- Special plastic



	A mm	C mm	L mm	⚖️
115.1054	0-32	45.0	160.0	70

### Hexagonal tube socket for bumper screw

- 6-point
- For actuating the bumper screw at the rear
- Internal square
- Extra-long design for actuating the screw via the threaded rod
- Allows controlled tightening of the screw to the torque specified by the manufacturer
- For manual operation
- Matt finish
- Chrome vanadium

**Application range:** Mercedes type 204, Audi A3 from 2004, A4 from 2001, A6 from 2005, TT from 2007



	⚖️	Ø mm	L mm	⚖️
917.1423	1/4"	10,0	13,0	160,0
				60

### Brake lights removal fork set

- Suitable for disassembling the brake light from the tail gate
- Allows the correct unlocking of the retaining clamps
- High accuracy of fit
- For manual operation
- With PVC dipped handle
- Matt finish
- Chrome vanadium

**Application range:** Mercedes E Class (W210) T model



		L mm	⚖️
150.1691	4 pcs	135.0	260

## PLASTIC REPAIR

### Hot stapler set for plastic repair (cordless)

- Suitable for the repair of cracks or similar damage to plastic parts (from 1 mm thick)
- Also for plastics with a glass fibre content of max. 40%
- Battery operated, mains independent working
- Can also be used directly connected to the power supply
- Heating rod holder for different repair clamps with Ø 0.6 and 0.8 mm
- Heats the clamps with approx. 100-200 °C
- Folding and with stand foot
- One battery charge lasts for approx. 150 repair clamps
- With 100 different clips per type
- Repair clamps are pressed into the break and give the plastic body its permanent stability back
- Includes operating, battery status and charge display
- Do not use on pure fibre-glass reinforced plastic or carbon

**Application range:** Bumpers, panels, covers, etc.



#### Technical data:

input current:	DC 5 V 2 A
output current:	DC 3.7 V max. 8A
Battery charger:	100-240V / 50/60Hz
Charging time:	3-4 hours

	⚖️
150.1035	302 pcs Hot stapler set for plastic repair (cordless) 1.30

consists of:

150.1036	Plastic repair device	400		
150.1037	Power supply 12 V, 100-240 V, 50-60 Hz	93		
150.1051	Repair staple U-format Ø 0,6 mm	20		
150.1057	Repair staple U-format Ø 0,8 mm	20		
150.1052	Repair staple V-format Ø 0,6 mm	20		

**Repair staples**

- Suitable for repairing breaks on headlamps, bumpers, etc.
- The clamps are fused into the breaks
- Rust-proof
- Stainless steel



	Form	Ø mm	Content	
150.1051	U-form	0,6	100	20
150.1057	U-form	0,8	100	20

**Repair staples**

- Suitable for repairing breaks on headlamps, bumpers, etc.
- The clamps are fused into the breaks
- Rust-proof
- Stainless steel



	Form	Ø mm	Content	
150.1053	W shaped	0,6	100	20
150.1059	W shaped	0,8	100	20

**Repair staples**

- Suitable for repairing breaks on headlamps, bumpers, etc.
- The clamps are fused into the breaks
- Rust-proof
- Stainless steel



	Form	Ø mm	Content	
150.1052	V-form	0,6	100	20
150.1058	V-form	0,8	100	20

**Repair staples**

- Suitable for repairing breaks on headlamps, bumpers, etc.
- The clamps are fused into the breaks
- Rust-proof
- Stainless steel



	Form	Ø mm	Content	
150.1055	U-form	0,6	100	20
150.1061	U-form	0,8	100	20

**Plastic soldering iron**

- Ideal for small plastic repairs, e.g. cracks in the bumper, wings, engine panels, etc.
- Electrically-operated micro soldering device
- Includes holder

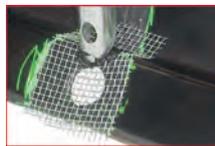


Capacity: 60 Watt  
 Voltage range: 120, 220V / 230V / 240 V - 50Hz / 60Hz  
 Working temperature: 0-400 °C  
 Cable length: 1,35 m  
 Heating blade: 15 x 26 mm

	Length mm	
960.1120	260.0	960

**Reinforcement mat**

- Suitable for plastic repairs
- Gives the plastic a secure hold
- For use alongside standard plastic soldering irons



	Size mm	Content
960.1126	150 x 110 mm	5 25

**Plastic soldering iron set**

- Ideal for small plastic repairs, e.g. cracks in the bumper, wings, engine panels, etc.
- Gas-operated micro soldering device
- With piezo ignition
- Adjustable gas supply
- With various repair sticks and reinforce mats
- Filled with standard lighter gas/ISO butane gas
- In durable plastic storage case



960.1115	33 pcs	Plastic soldering iron set 960

consists of:

960.1116	Plastic soldering iron	110
960.1117	Soldering iron add-on, Ø 9.0 mm	7
960.1118	Soldering iron add-on, Ø 12.0 mm	11
500.7111	Precision flat-head screwdriver, 3 mm	20
201.2316	Brass wire spark plug wire brush, 2 rows	20
960.1119	Cleaning file, round	6
960.1121	Reinforcement mats set, 3 pcs., 100 x 55 mm	9
960.1122	PE (Polyethylene) repair sticks set, 6 pcs., black	15
960.1123	PE (Polyethylene) repair sticks set, 6 pcs., black	15
960.1124	PS (Polystyrene) repair stick set, 6 pcs., black	15
960.1125	ABS repair stick set, 6 pcs., black	15

**PARKING SENSOR TOOLS**

**Parking sensors pin wrench**

- Suitable for assembly and removal of parking sensors, which are integrated into the front and rear bumpers
- Allows professional tightening to the prescribed torque
- Internal square in accordance with DIN 3121/ISO 1174
- High accuracy of fit
- For manual operation
- Matt finish
- Chrome vanadium

**Application range:** Mercedes S Class (W140) and E Class (W210)



	Length mm	
917.1424	135.0	360

**Hole punch set for parking sensors (PDC)**

- Ideal for punching holes into the bumper for parking sensors
- Allows the optimum diameter for parking sensors
- With various punches varying in size
- No damage to the paint when cutting out the holes
- Repainting is not necessary
- Parking sensors must be inserted to the exact millimetre due to their sensitivity
- Includes mandrels with which the parking sensors can be attached precisely to the bumper
- In durable plastic storage case



140.2540	14 pcs	Hole punch set for parking sensors (PDC) 2.36

consists of:

140.2542	Knob with ball bearing	360
140.2543	Punch set with pin, 3 pcs., Ø 18.2 mm (VW, BMW)	140
140.2546	Punch set with pin, 3 pcs., Ø 24.0 mm (Opel)	240
140.2548	Punch set with pin, 3 pcs., Ø 26.0 mm (VW)	280
140.2552	Punch set with pin, 3 pcs., Ø 32.0 mm (BMW)	380
140.2554	Drill, 10 mm	40

accessories:

140.2556	Punch set with pin, 3 pcs., Ø 18.0 mm (Skoda)	180
140.2558	Punch set with pin, 3 pcs., Ø 26.7 mm (Skoda)	340

TRIM

### MASTER Induction Heat Gun Set

- For loosening rusted and seized connections
- For loosening "insoluble" glued connections
- Induction principle
- Pinpoint heating in seconds
- Heating of components to max. 780 °C (red hot)

**Application range:** Screws, nuts and bolts, exhaust clamps and pipes, lambda probes, running gear, stuck bearings, ball joints, steering (e.g. tracking adjustment screws), chemically micro-encapsulated threaded connections (bonded), warming of bearing housings during dismantling and assembly



**Technical data:**

Capacity: 1500 Watt

500.8415	12 pcs. MASTER Induction Heat Gun Set	3.88

consists of:

500.8420-1	Induction heat gun	1830
500.8431	Induction coils 15mm, standard	48
500.8432	Induction coils 19mm, standard	53
500.8433	Induction coils 22mm, standard	54
500.8434	Induction coils 26mm, standard	54
500.8435	Induction coils 32mm, standard	64
500.8436	Induction coils 38mm, standard	70
500.8423	Induction coils 22mm, extra long	760
500.8424	Induction coils 26mm, extra long	810
500.8450	Induction coil, cable, fully flexible, standard	62
500.8445	Induction coil, semi-rigid, deformable, universal	42
500.8440	Induction pad	175

### Induction pad

- Heat-resistant material
- Gentle on painted surfaces
- Flat and flexible surface
- Simple handling
- Can be used in conjunction with induction heating gun 500.8420-1

**Application range:** Removal of stickers, type plates, emblems, decorative strips, self-adhesive films and small trims on painted surfaces



		Length mm	
500.8440	100 x 100	260.0	175

### 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	
140.1020	6 pcs.	180.0	85.0	250

consists of:

	X	
140.1021	6 Trim assembly suction set, 6 pcs., Ø 85 mm	40

### DOOR HINGES AND HANDLES

#### Door lock screwdriver

- Spline (XZN®)
- Suitable for the assembly and disassembly of the door lock screws
- Also suitable for the external door handle
- 1 piece handle
- Blade made of chrome vanadium

**Application range:** Audi TT, Volkswagen Golf 4, Passat B5, Lupo, New Beetle, Bora, Seat, Škoda, etc.

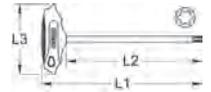
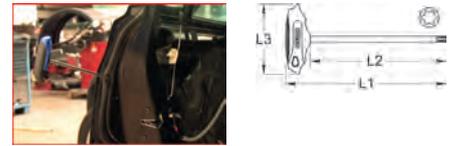


		L1 mm	L2 mm	
911.1117	M4	125.0	215.0	50

### ERGOTORQUEplus® T-handle TX key wrench, long

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

**Application range:** Fittings, engine, bumper, headlamps, fuse boxes, etc.

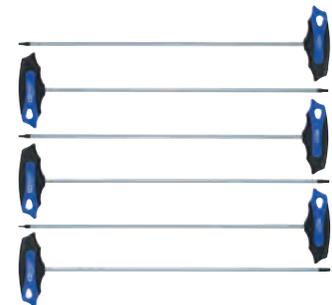


		L1 mm	L2 mm	L3 mm	
158.8051	T10	403.0	373.0	80.0	30
158.8052	T15	403.0	373.0	80.0	30
158.8053	T20	403.0	373.0	100.0	40
158.8054	T25	408.0	373.0	100.0	40
158.8055	T27	408.0	373.0	100.0	40
158.8056	T30	408.0	373.0	100.0	45

### ERGOTORQUEplus® T-handle TX key wrench set

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

**Application range:** Fittings, engine, bumper, headlamps, fuse boxes, etc.



158.8050	6 pcs. T10 - T15 - T20 - T25 - T27 - T30	375

### Door hinge socket wrench

- TX-E
- Ideal for the assembly and disassembly of the deep-seated door hinge holding screws on the rear hinged door and sliding door
- Internal square in accordance with DIN 3121/ISO 1174
- Long design
- Phosphate
- Chrome molybdenum

**Application range:** Mercedes Sprinter from 2005 and Volkswagen LT



		L mm	
911.4451	E10	150.0	260

**Central cable plug - grooved nut key**

- 3-stage adjustable groove nut key
- For the disassembly and assembly of difficult to access central cable connectors on the A-pillar (installed in door frame)
- Easy to use
- Sturdy design

**Application areas:** Ford (Galaxy), Seat (Alhambra), Škoda and Volkswagen (Polo, Sharan)

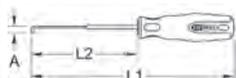


115.1306	Central cable plug - grooved nut key	240
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**Door handle release tool**

- For removal of the cap of door handles without lock cylinder
- Necessary for removal of the door handle
- For release of the locking hook in confined spaces
- With hanging hole
- With two component handle
- Chrome vanadium

**Application range:** Volkswagen Golf 6 from MY 08 / Fox from MY 05 / Passat B6 (3C) from MY / Tiguan from MY



	L1 mm	L2 mm	A mm	
150.1609	260.0	150.0	10.0	140

**Door hinge roll pin drift set**

- For the dismantlement of instep cases in door hinges
- For all passenger car and transporter doors
- Surface zinc-plated
- Special steel



140.2190	4 pcs	Door hinge roll pin drift set	450
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consists of:

140.2191	Impact iron with PVC-handle, length 290 mm	366
140.2192	Extraction pin Ø 3.5 mm length 115 mm	12
140.2193	Extraction pin Ø 4.5 mm length 115 mm	19
140.2194	Extraction pin Ø 5.5 mm length 115 mm	25

**Special door hinge and alignment wrench set**

- For the assembly and disassembly of door hinges
- Ideally suitable for door alignment
- Extra short bits with ball locking
- Includes ratchet with bit adaptor
- In durable plastic storage case

**Application range:** Volkswagen, Audi, Seat, Mercedes, Renault, etc.



140.2180	9 pcs	Special door hinge and alignment wrench set	940
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consists of:

140.2181	Double ended dual offset wrench, Length 300 mm	410
140.2182	5/16" Bit ratchet angled, length 140 mm	110
140.2183	5/16" Special bit, XZN® M8	10
140.2184	5/16" Special bit, XZN® M10	10
140.2185	5/16" Special bit, XZN® M12	20
140.2186	5/16" Special bit, TORX® T30	10
140.2187	5/16" Special bit, TORX® T40	10
140.2188	5/16" Special bit, TORX® T45	10
140.2189	5/16" Special bit, TORX® T50	10

**Universal straightening iron**

- For alignment of passenger car and van doors
- Also suitable for car boot and hatchbacks
- Double-walled execution
- Includes 3 different interchangeable special bolts
- Storage of the 3 special bolts convenient in the pipe grip magazine
- Chrome plated and mirror polished
- Special steel



	L mm	Replacement bolt set 3 pcs	
150.1605	700.0	150.1606	1.30

**DOOR OPENER**

**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	
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



150.1685	4 pcs	Panel bag set with hand pump	300
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consists of:

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

### Automobile car door lock opener set

- Wide range of round and flat steel tools, nylon wedge and universal gas cap key
- For opening locked car doors from outside
- Ideal for towing service
- Can be used on most common vehicle models
- In durable leather case

**Note:** Does not work with modern vehicles with electronically controlled locking systems



				kg
150.1630	16 pcs	Automobile car door lock opener set		2.55

consists of:

			kg
150.1611	Door opening wire, button and auxiliary hook		90
150.1612	Door opening wire, double slide hook		70
150.1613	Door opening wire, Toyota Camry/Chrysler tool		10
150.1614	Door opening wire, Mercedes/Volvo tool		60
150.1615	Door opening wire, dual tool		30
150.1616	Door opening wire, Japanese/button hook		90
150.1617	Door opening wire, Porsche tool		20
150.1618	Door opening wire, Chevrolet Astra/Camaro tool		60
150.1619	Door opening wire, double curve		20
150.1620	Door opening wire, button pull		20
150.1621	Door opening wire, wonder tool		140
150.1622	Strip type catches small f.150.1630		60
150.1623	Strip type catches wide f.150.1630		120
150.1624	Plastic strip f.150.1630		10
150.1625	Nylon window wedge f.150.1630		40
150.1626	Double ended fuel cap key f.150.1630		10

### EXTERIOR MIRROR

#### Double ended mirror screwdriver

- Clip for the breast pocket
- Knurled grip
- Aluminium



	D	L mm	kg
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

#### ERGOTORQUE<sup>plus</sup> screwdriver for TX screws, tamperproof

- Perfectly suited to assembly and disassembly of wing mirrors
- With two component handle
- Optimal power transmission
- With suspension hole
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

**Application range:** Mercedes W203 (C Class) and W204 (E Class)

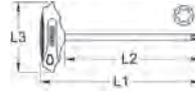


	L1 mm	L2 mm	L3 mm	kg	
159.1054	TB20	205.0	100.0	105.0	50

### ERGOTORQUE<sup>plus</sup> T-handle TX key wrench, long

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

**Application range:** Fittings, engine, bumper, headlamps, fuse boxes, etc.

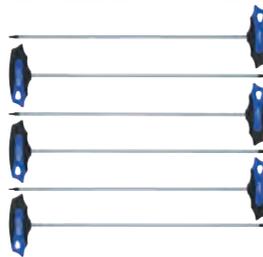


		L1 mm	L2 mm	L3 mm	kg
158.8051	T10	403.0	373.0	80.0	30
158.8052	T15	403.0	373.0	80.0	30
158.8053	T20	403.0	373.0	100.0	40
158.8054	T25	408.0	373.0	100.0	40
158.8055	T27	408.0	373.0	100.0	40
158.8056	T30	408.0	373.0	100.0	45

### ERGOTORQUE<sup>plus</sup> T-handle TX key wrench set

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

**Application range:** Fittings, engine, bumper, headlamps, fuse boxes, etc.



				kg
158.8050	6 pcs	T10 - T15 - T20 - T25 - T27 - T30		375

### 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

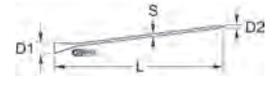


	Length mm	kg
115.1305	165.0	180

### LEVER AND SEPARATING TOOLS

#### Bending iron/pry bar

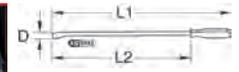
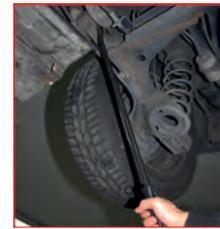
- 6-point
- Quenched and tempered
- Forged
- Cone polished
- Special steel



	D1 mm	D2 mm	L mm	S mm	kg
129.2222	22.0	5.0	405.0	16.0	650

#### Pry bar

- Ideal for assembly and disassembly work
- Ergonomic one component handle
- Hardened through the whole length
- Chrome molybdenum



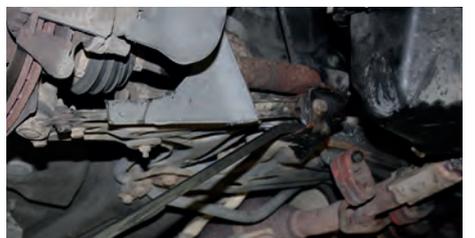
	D mm	L1 mm	L2 mm	kg
911.8101	11.0	200.0	115.0	130
911.8102	15.0	300.0	185.0	220
911.8103	18.0	450.0	320.0	420
911.8104	18.0	600.0	470.0	560

#### Pry bar sets

- Ideal for assembly and disassembly work
- Ergonomic one component handle
- Hardened through the whole length
- Chrome molybdenum



				kg
911.8100	4 pcs	11 x 115 mm - 15 x 185 mm - 18 x 320 mm - 18 x 470 mm		1.33



**Mechanics pry bar**

- Angular lever end guarantees non-slip surface
- With go through blade and hammer cap
- Ideally suited to assembly and disassembly work
- For pressure testing securely-fitted parts
- Suitable for positioning parts or holding parts in place
- Suitable for the testing of defective bearings
- With two component handle
- Heavy design especially for commercial vehicles
- Special steel



	Bend radius	L mm	kg
911.8411	0°	900.0	1.70
911.8412	45°	900.0	1.75
911.8413	75°	600.0	1.17
911.8414	90°	600.0	1.20
911.8415	45°	1120.0	4.75

**Mechanics pry bar set**

- Angular lever end guarantees non-slip surface
- With go through blade and hammer cap
- Ideally suited to assembly and disassembly work
- For pressure testing securely-fitted parts
- Suitable for positioning parts or holding parts in place
- Suitable for the testing of defective bearings
- With two component handle
- Heavy design especially for commercial vehicles
- Special steel
- In durable plastic storage case



		kg
911.8410	4 pcs Mechanics pry bar set	8.70

consists of:

		kg
911.8411	Mechanics pry bar, straight 900 mm	1.70
911.8412	Mechanics pry bar 45°, angled head 900 mm	1.75
911.8413	Mechanics pry bar 75°, angled head 600 mm	1.17
911.8414	Mechanics pry bar 90°, angled head 600 mm	1.20

**Intexable ratchet pry bar**

- Extremely versatile and robust execution
- Variable adjustable roll head
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Ideally suited for commercial vehicles
- Special steel



	L mm	Assembly levels	kg
911.8176	250.0	5	600
911.8177	300.0	5	600
911.8178	400.0	5	600
911.8179	620.0	5	1810



**Adjustable joint roll head pry bar set**

- Extremely versatile and robust execution
- Variable adjustable roll head
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Ideally suited for commercial vehicles
- Special steel



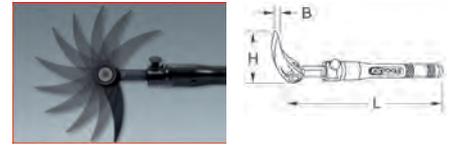
		kg
911.8175	3 pcs Adjustable joint roll head pry bar set	1.20

consists of:

		kg
911.8176	Ratched pry bar, 10"	600
911.8177	Ratched pry bar, 12"	600
911.8178	Ratched pry bar, 15"	600

**Telescopic flexible roll head pry bar**

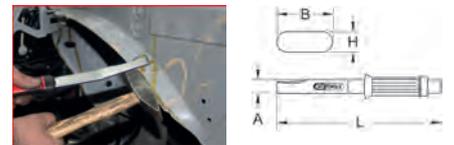
- Handle can be lengthened by the push button in ratchet steps
- Rolling head adjustable in stages
- Extra thin with embedded rolling head
- Maximum power in the smallest areas
- Optimal leverage in minimal work area
- Ideally suited to assembly and disassembly work
- For pressure testing securely-fitted parts
- Suitable for positioning parts or holding parts in place
- Suitable for the testing of defective bearings
- Ideal for use in passenger cars and commercial vehicles
- Special steel



	L mm	H mm	B mm	kg
911.8186	325-460	90.0	12.0	780
911.8187	600-915	120.0	20.0	1900
911.8188	865-1350	145.0	24.0	4260

**Bodywork slitting chisel**

- Suitable for separating welds
- With re-grindable cutters
- Continuous blade
- With two component handle
- Special steel



	L mm	A mm	B mm	H mm	g
162.0216	300.0	25.0	19.0	6.0	330

**Bodywork slitting chisel**

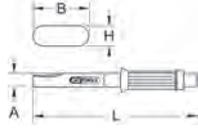
- Suitable for separating welds
- With re-grindable cutters
- Continuous blade
- With two component handle
- Special steel



	L mm	A mm	B mm	H mm	g
162.0217	300.0	25.0	19.0	6.0	330

### Bodywork slitting chisel

- Suitable for separating welds
- With re-grindable cutters
- Continuous blade
- With two component handle
- Special steel



	L mm	A mm	B mm	H mm	g
162.0218	240.0	25.0	19.0	6.0	330

### Bodywork slitting chisel set

- Suitable for separating welds
- With re-grindable cutters
- Continuous blade
- With two component handle
- Special steel



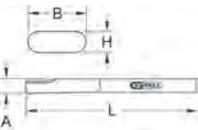
	L mm	A mm	B mm	H mm	g
162.0215	3 pcs	Bodywork slitting chisel set			1.00

#### consists of:

	L mm	A mm	B mm	H mm	g
162.0216	Bodywork separating chisel, straight				330
162.0217	Bodywork separating chisel, 15° angled				330
162.0218	Bodywork separating chisel, 90° angled				330

### Bodywork slitting chisel

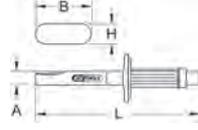
- DIN 7255
- Flat oval form
- Blade can be resharpened
- Extra flat
- Burnished
- Chrome vanadium



	L mm	A mm	B mm	H mm	g
140.2162	300.0	21.0	25.0	6.0	310

### Bodywork slitting chisel with hand grip

- DIN 7255
- Flat oval form
- Blade can be resharpened
- Extra flat
- Burnished
- Chrome vanadium



	L mm	A mm	B mm	H mm	g
140.2165	300.0	21.0	25.0	6.0	550

### Bodywork slitting chisel

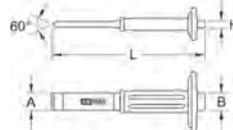
- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	g
162.0271	250.0	30.0	23.0	13.0	162.0442 460

### Slitting chisel with hand grip

- Flat oval form
- Extra thin
- Blade can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	g
162.0471	240.0	26.0	26.0	7.0	370

### Bodywork spade chisel

- Extra wide execution
- With protective handgrip
- Quenched and through hardened
- For cutting metal sheet and spot welds
- Shaft with powder coated lacquer
- Special steel



	B mm	L mm	g
156.0330	60.0	240.0	600

### Bodywork slitting chisel set

- Flat oval form
- Extensive range
- With re-grindable cutters
- Extra flat
- Bronzed, chrome vanadium
- Highly polished/chrome molybdenum



	L mm	A mm	B mm	H mm	g
140.2145	4 pcs	Bodywork slitting chisel set			2.00

#### consists of:

	L mm	A mm	B mm	H mm	g
156.0330	Bodywork chisel, 60x240mm				600
140.2162	Slitting chisel no grip, 300mm				310
140.2165	Slitting chisel+grip, 300mm				550
162.0471	Slitting chisel, hand grip, 240mm				370

### Pneumatic chisel set

- Non slip soft grip handle
- Air exhaust through the handle
- Ergonomic designed handle
- For ripping out car body sheet metal with pneumatic air
- Ideal for industry
- Also suitable for loosening firmly rusted fittings
- Quick release chuck for quick chisel changing
- Stepless impact regulation
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector and chuck
- Ultra light housing from two component plastic
- In durable plastic case



#### Technical data:

Chisel holder:	10 mm
Number of blows:	2900 blows/min
Vibration:	5,35 ms <sup>2</sup>
Noise performance level:	104.9 dbA
Noise pressure level:	90.4 dbA
Air consumption:	77.3 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"PT

	L mm	A mm	B mm	H mm	g
515.3840	7 pcs	Pneumatic chisel set			1.70

#### consists of:

	L mm	A mm	B mm	H mm	g
515.3841	AIR CHISEL				1.50
515.3842	Rivet cutting chisel				0.17
515.3843	Spot weld chisel				0.16
515.3844	Flat chisel				0.16
515.3845	Pointed chisel				0.16
515.3846	Curved sheet metal cutting chisel				0.16
515.3847	Quick change retainer				0.10

**Vibro impact pneumatic chisel hammer set**

- With non slip soft grip handle
- Air exhaust through the handle
- Ergonomic designed handle
- Ideal for industry
- Efficient, gentle loosening of screw fittings
- With stepless impact regulation
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light housing from two component plastic



515.3880	6 pcs	Vibro impact pneumatic chisel hammer set	5.70

**consists of:**

515.3881	Pneumatic chisel hammer	2.17	
515.3882	Holder for pneumatic chisel hammer	1.55	
515.3886	Pneumatic chisel track rod loosener, 110mm	0.14	
515.3887	Pneumatic chisel hammer, 110mm	0.15	
515.3888	Pneumatic chisel loosening adapter, 130mm	0.16	
515.3889	Pneumatic chisel loosening mandrel, 100x25x12mm	0.19	

**Special Vibro chisel set**

- For loosening seized screw joints and loosening components
- Gentle peeling and driving
- Vibration is transmitted directly to the screw connections
- Impact mandrel attachment as ingenious aid to any removal operation
- For hexagonal and round 10 mm machine mountings
- Including pressure plate adapter for driving out bearings, sleeves, bushings

**Caution:** Use only in conjunction with a pneumatic hammer chisel!



515.3885	4 pcs	Special Vibro chisel set	7.74

**consists of:**

515.3886	Pneumatic chisel track rod loosener, 110mm	1.38	
515.3887	Pneumatic chisel hammer, 110mm	1.48	
515.3888	Pneumatic chisel loosening adapter, 130mm	1.59	
515.3889	Pneumatic chisel loosening mandrel, 100x25x12mm	1.90	

**BODY BORING TOOLS**

**SlimPOWER mini-pneumatic straight drill**

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Not reversible
- With quick release chuck capacity 1 - 6,5 mm
- For hard to reach places
- Ideally suited for car bodywork and industrial working
- With stepless speed regulation
- Vibration dampened through double bearing guides
- Includes 1/4" coupling connector
- Robust housing



- Technical data:**
- Chuck capacity: 1 - 6,5 mm
  - Chuck thread reception: 3/8" x 24 UNF
  - Capacity: 190 Watt
  - No load current: 6000 r.p.m.
  - Vibration: < 0,7 ms<sup>2</sup>
  - Noise performance level: 95 dbA
  - Noise pressure level: 80 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"NPT

	B mm	L mm	
515.5020	35.5	145.0	400

**Pneumatic straight drill**

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Not reversible
- With quick release chuck capacity 0 - 10 mm
- For hard to reach places
- Ideally suited for car bodywork and industrial working
- With stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened through double bearing guides
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing from special plastic

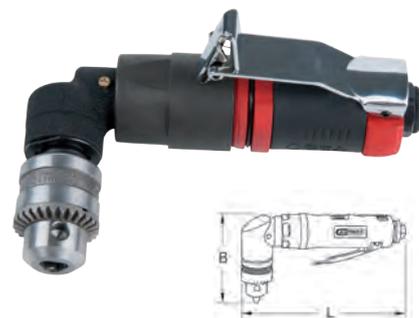


- Technical data:**
- Chuck capacity: 1 - 10 mm
  - Chuck thread reception: 3/8" x 24 UNF
  - Capacity: 330 Watt
  - No load current: 2600 r.p.m.
  - Vibration: < 0,1 ms<sup>2</sup>
  - Noise performance level: 95 dbA
  - Noise pressure level: 82 dbA
  - Air consumption: 85 l/min
  - Min. tube diameter: 3/8" - 10 mm
  - Operating pressure: max. 6,3 bar (90 psi)
  - Connection thread: 1/4"NPT

	B mm	L mm	
515.3025	44.0	215.0	750

**SlimPOWER mini-pneumatic angle drill**

- Angled version
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Not reversible
- With gear rim drill chuck width 1 - 6,5 mm
- For hard to reach places
- Ideally suited for car body work
- With stepless speed regulation
- Vibration dampened through double bearing guides
- Includes 1/4" coupling connector
- Robust housing

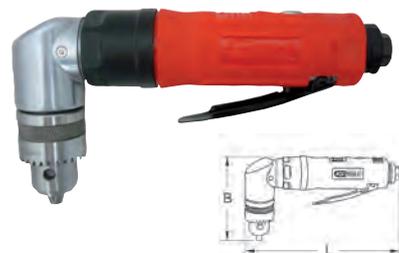


- Technical data:**
- Chuck capacity: 1 - 6,5
  - Chuck thread reception: 3/8" x 24 UNF
  - Capacity: 230 Watt
  - No load current: 4500 r.p.m.
  - Vibration: < 0,7 ms<sup>2</sup>
  - Noise performance level: 95 dbA
  - Noise pressure level: 83 dbA
  - Air consumption: 240.66 l/min
  - Min. tube diameter: 1/4" - 6,4 mm
  - Operating pressure: max. 6,3 bar (90 psi)
  - Connection thread: 1/4"

	B mm	L mm	
515.5025	90.0	145.0	700

**Pneumatic angle drill**

- Angled version
- With planetary gearing
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Not reversible
- With gear rim drill chuck width 0 - 10 mm
- For hard to reach places
- Ideally suited for car body work
- With stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened through double bearing guides
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing from special plastic



- Technical data:**
- Chuck capacity: 1 - 10
  - Chuck thread reception: 3/8" x 24 UNF
  - Capacity: 330 Watt
  - No load current: 1800 r.p.m.
  - Vibration: < 0,15 ms<sup>2</sup>
  - Noise performance level: 95 dbA
  - Noise pressure level: 87 dbA
  - Air consumption: 85 l/min
  - Operating pressure: 6,3 bar (90 psi)
  - Min. tube diameter: 3/8" - 10 mm
  - Connection thread: 1/4"NPT

	L mm	B mm	
515.1265	200.0	100.0	1.15

### Cordless drill machine

- Light weight
- Handy and ergonomic dual component housing
- Universal use through robust quick release chuck
- With practical clockwise and anticlockwise reversing function
- Stepless controllable motor speed through electronic switch
- With torque control
- Carbon brushes interchangeable
- With lithium ion high performance rechargeable battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- In durable plastic storage case



#### Technical data:

Chuck capacity:	1 - 10 mm
Capacity:	10,8 V
Speed:	0 - 1870 rpm
Torque max.	24 Nm
No load current:	3,5 A
Charging time:	1 hour
Rechargeable battery:	10,8 V - 1,5 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		
515.3534	190.0	55.0	200.0	515.3595	515.3592	0	0	1.60
515.3535	190.0	55.0	200.0	515.3595	515.3592	1	1	2.50
515.3536	190.0	55.0	200.0	515.3595	515.3592	2	1	2.70

### Pneumatic pistol grip drill

- Very handy and compact construction
- With non slip soft grip handle
- Air exhaust through the handle
- For one handed operation with ergonomic design
- With quick release chuck capacity 0 - 10 mm
- With practical clockwise and anticlockwise switch
- Suitable for continuous duty
- For working in hard to access areas
- Ideally suited for car bodywork and industrial working
- With stepless speed regulation
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing from special plastic



#### Technical data:

Chuck capacity:	1 - 10 mm
Chuck thread reception:	3/8" x 24 UNF
Capacity:	330 Watt
No load current:	1800 r.p.m.
Vibration:	< 0,1 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	82 dbA
Air consumption:	113 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	
515.3030	165.0	150.0	920

### Pneumatic pistol grip drill

- Low rotation speed
- Non slip soft grip handle
- Ultra light robust housing from special plastic
- Air exhaust through the handle
- Quick release chuck capacity 0 - 13 mm
- Practical clockwise and anticlockwise switch
- Suitable for continuous duty
- Ideally suited for working with hard to machine materials
- For spot weld drills, polishing and grinding wheels, erasing rubbers etc.
- Very substantial guide
- Stepless speed regulation
- Vibration dampened
- Handle for 2 hand operation 360° revolving and lockable
- Cold insulated handle
- Includes 1/4" coupling connector



#### Technical data:

Chuck capacity:	1,5 - 13 mm
Chuck thread reception:	3/8" x 24 Gang
Capacity:	330 Watt
No load current:	450 r.p.m.
Vibration:	< 0,15 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	87 dbA
Air consumption:	113 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	T mm	
515.3035	200.0	230.0	43.0	1.60

### Pneumatic spot weld drill

- Air exhaust through the handle
- Easy operation
- Suitable for continuous duty
- Ideally suited for internal and external spot welds
- For spot weld drills
- Very substantial guide
- With adjustable milling machine depth ring in steps of 0,05 mm
- With revolving and removable frame to the fixation on the object
- With large frame for deep lying points
- Feed achievement through pneumatic cylinder
- With stepless speed regulation
- Includes 1/4" coupling connector
- Robust machined housing



#### Technical data:

Drive:	Ø 8 mm with set screw
Capacity:	500 Watt
No load current:	1600 r.p.m.
Vibration:	< 0,3 ms <sup>2</sup>
Noise performance level:	90 dbA
Noise pressure level:	81 dbA
Air consumption:	280 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4" IG

	B mm	L mm	
515.1206	200.0	235.0	2.20

### accessories:

515.1207	Counter bracket, small for 515.1206	300
515.1208	Counter bracket, large for 515.1206	500

### Pneumatic spot weld drill set

- Air exhaust through the handle
- Easy operation
- Suitable for continuous duty
- Ideally suited for internal and external spot welds
- For spot weld drills
- Very substantial guide
- Adjustable milling machine depth ring in steps of 0,05 mm
- Revolving and removable frame on the fixation on the object
- Large frame for deep lying points
- Feed achievement through pneumatic cylinder
- Stepless speed regulation
- Includes 1/4" coupling connector
- Robust machined housing
- In durable plastic case



#### Technical data:

Drive:	Ø 8 mm with set screw
Capacity:	500 Watt
No load current:	1600 r.p.m.
Vibration:	< 0,2 ms <sup>2</sup>
Noise performance level:	90 dbA
Noise pressure level:	81 dbA
Air consumption:	280 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4" IG

515.1205	9 pcs Pneumatic spot weld drill set	2.20

#### consists of:

515.1206	1/2" pneumatic spot weld drill	2.20
515.1207	Counter bracket, small for 515.1206	0.30
515.1208	Counter bracket, large for 515.1206	0.50
332.0108	HSSSE spot weld drill, Ø 8,0mm	0.02
515.3361	Pneumatic tool oil, 100ml	0.25



**Fastdrill pneumatic spot weld drill**

- Special drive for high torque
- With non-slip soft-grip-handle
- Air exhaust through the handle
- Suitable for continuous duty
- Ideally suited for internal and external spot welds
- For carbide spot weld drills
- Very substantial guide
- With revolving and removable frame on the fixation on the object
- Feed achievement through pneumatic-cylinder
- With stepless speed regulation
- Cold insulated handle
- Includes 1/4" coupling connector
- Robust machined housing



**Technical data:**

Drive in mm	8 mm
Capacity:	280 Watt
No load current:	1000 r.p.m.
Vibration:	< 0,233 ms <sup>2</sup>
Noise performance level:	95.4 dbA
Noise pressure level:	82.4 dbA
Air consumption:	340 l/min
Operating pressure:	6 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.1311	175.0	315.0	1.85

**accessories:**

		kg
515.1312	Bracket, small, for Fastdrill	550
515.1313	Bracket, big, for Fastdrill	800

**Fastdrill pneumatic spot weld drill set**

- Special gearbox for high torque
- With non slip soft grip handle
- Air exhaust through the handle
- Suitable for continuous duty
- Ideally suited for internal and external spot welds
- For carbide spot weld drills
- Very substantial guide
- With revolving and removable frame on the fixation on the object
- Feed achievement through Pneumatic-cylinder
- With stepless speed regulation
- Cold insulated handle
- Includes 1/4" coupling connector
- Robust machined housing



**Technical data:**

Drive in mm	8 mm
Capacity:	280 Watt
No load current:	1000 r.p.m.
Vibration:	< 0,233 ms <sup>2</sup>
Noise performance level:	95.4 dbA
Noise pressure level:	82.4 dbA
Air consumption:	340 l/min
Operating pressure:	6 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

		kg
515.1310	3 pcs Fastdrill pneumatic spot weld drill set	2.40

consists of:

		kg
515.1311	Fastdrill pneumatic spot weld drill	1.85
515.1312	Bracket, small, for Fastdrill	0.55
515.1314	T-handle wrench	0.04

**COOLANT**

**Cooling lubricant stick**

- Suitable for working with centre bits, countersinks and stepped drills
- Contents 18g
- To prolong the service life



	Volume g	kg
390.0190	18	44



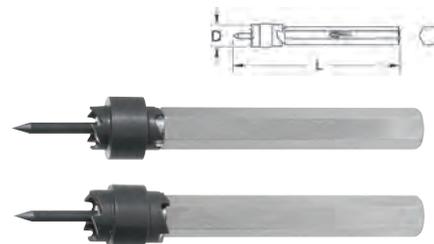
Please find our wide range of drills, tap and dies in our Hand Tools catalogue on page 500 to 507.

**SPOT WELD DRILLS**

**HSS Spot weld cutter**

- Right hand cutting
- Interchangeable crowns
- Milling machine depth adjustable
- For efficient and fast working
- For loosening of spot welds
- No deformation of the sheet metal
- Special high performance steel

Ideally suitable with pneumatic drill, electric drill and rechargeable battery drill.



	D mm	D	L mm	Replacement crowns	Center point	Content	kg
332.0951	8.0	5/16	72.0	332.0952	332.0955	1	30
332.0953	10.0	3/8	72.0	332.0954	332.0955	1	30

**HSS Spot weld cutter set**

- Right hand cutting
- Interchangeable crowns
- Milling machine depth adjustable
- For efficient and fast working
- For loosening of spot welds
- No deformation of the sheet metal
- Special high performance steel

Ideally suitable with pneumatic drill, electric drill and rechargeable battery drill.



		kg
332.0950	2 pcs 8 - 10 mm	100

**HSSE Spot weld drill**

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- Surface without discolouration
- High performance steel

Ideally suited in a hand drilling machine. For drilling of plastic sheet, copper, zinc, aluminum, brass and steel sheet.

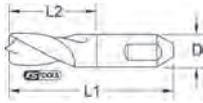


	D mm	L1 mm	L2 mm	Content	kg
332.0106	6.0	70.0	25.0	1	10
332.0108	8.0	80.0	30.0	1	20
332.0110	10.0	90.0	35.0	1	40

### HSSE TIN Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TIN coated surface
- High performance steel

Ideally suited in a hand drilling machine.  
For drilling of plastic sheet, copper, zinc, aluminum, brass and steel sheet.

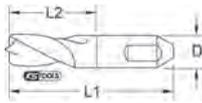


	D mm	L1 mm	L2 mm	Content	
332.0206	6.0	70.0	25.0	1	10
332.0208	8.0	80.0	30.0	1	20
332.0210	10.0	90.0	35.0	1	40

### HSSE TiCN Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TiCN coated surface
- High performance steel

Ideally suited in a hand drilling machine.  
For drilling of plastic sheet, copper, zinc, aluminum, brass and steel sheet.

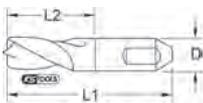


	D mm	L1 mm	L2 mm	Content	
332.0308	8.0	80.0	30.0	1	20
332.0310	10.0	90.0	35.0	1	40

### HSS Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TiCN coated surface
- High performance steel

Ideally suited in a pneumatic drill and vario milling machine.

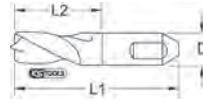


	D mm	L1 mm	L2 mm	Content	
332.0408	6.5	44.0	15.0	1	10
332.0708	8.0	44.0	15.0	1	10

### HSSE TIN Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TIN coated surface
- High performance steel

Ideally suited in a pneumatic drill and vario milling machine.

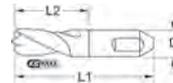


	D mm	L1 mm	L2 mm	Content	
332.0508	6.5	44.0	15.0	1	10
332.0808	8.0	44.0	15.0	1	10

### HSSE TIN Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TIN coated surface
- High strength steel

Ideally suited in a pneumatic drill and vario milling machine

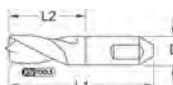


	D mm	L1 mm	L2 mm	Content	
332.0809	8.0	44.0	23.0	10	134

### HSSE TiCN Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TiCN coated surface
- High performance steel

Ideally suited in a pneumatic drill and vario milling machine.



	D mm	L1 mm	L2 mm	Content	
332.0608	8.0	44.0	15.0	1	10

### HSSE Double ended spot weld drill

- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 135° pointed angle
- Double ended usage
- Extra short and durable
- For thin walled materials
- Surface without discolouration
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm<sup>2</sup> tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, pressure-, malleable- and cast iron



	D mm	L1 mm	L2 mm	Content	
332.0908	8.0	70.0	16.3	1	20

### HSS Double ended spot weld drill set

- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 135° pointed angle
- Double ended usage
- Extra short and durable
- For thin walled materials
- Surface without discolouration
- High performance steel

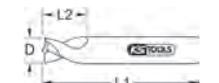
Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm<sup>2</sup> tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, pressure-, malleable- and cast iron



	D mm	L1 mm	L2 mm	Content	
332.0938	3 pcs	3 x 332.0908			70

### Carbide spot weld drill

- Right hand cutting
- Highest stability under load
- Double edged
- Welded carbide head
- Especially temperature resistance up to max. 1100°C
- High performance carbide
- Suitable for high strength car body panels

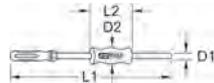


	D mm	L1 mm	L2 mm	Content	
515.1305	8.0	44.0	11.0	1	22
515.1308	10.0	44.0	11.0	1	25

**BENDING AND PULLING TOOLS**

**Slide hammer**

- Flexible removal tool
- Internal thread for holding various pullers, bolts and hooks
- Ideal for removing ball bearings, wheel hubs, etc.
- Ideal in confined spaces
- Special steel



	L1 mm	L2 mm	D1 mm	D2 mm	∅ mm	kg
660.0501	170	40.0	10.0	30.0	M10	0.40
660.0502	170	80.0	10.0	50.0	M10	0.90
660.0503	250	100.0	16.0	45.0	M10	1.30
660.0504	250	100.0	16.0	45.0	M10+G3/8"	1.40
660.0505	250	100.0	16.0	60.0	G3/8"	2.60

**Universal slide hammer**

- Extra heavy and solid execution
- For universal use for automobiles + trucks
- Enormous impact delivery of up to 11 tonnes
- With 6 kg impact weight
- Includes 3 kg additional weight
- With M 20 x 1.5 mm connection thread
- Additional weights can be screwed together
- Special steel



	L mm	kg
700.1415	850.0	12.00

**accessories:**

	kg	
700.1421	Adaptor ET UN 1.1/2" x IT M20 x 1.5	0.72
700.1423	Adaptor for double hook	0.27
700.1424	Universal hook M20 x 1.5 for ball joints + car body	2.40
700.1425	Double hook	0.75
700.1428	Adaptor ET UN 1.1/2" x IT M16 x 2.0	0.72
700.1430	Adaptor ET UN 1.1/2" x IT M16 x 1.5	0.72
152.1056	Single screw adaptor AG M17 x 1	0.24
700.1411	Wheel hub/drive flange dismatling tool	2.55

**Universal slide hammer with puller hook, 6+3 kg**

- Suitable for use with tensioning clamps
- Extra heavy and solid execution
- For universal use for automobiles + trucks
- Enormous impact delivery of up to 11 tonnes
- With 6 kg impact force
- Includes 3 kg additional weight
- With M 20 x 1.5 mm connection thread
- Additional weights can be screwed together
- Special steel



		kg	
700.1475	3 pcs	Universal slide hammer with puller hook, 6+3 kg	13.24

**consists of:**

		kg
140.2455	Universa pull hook	1.00
700.1415	Universal slide hammer 6+3kg, 850mm	12.00

**Edge hammering iron**

- Suitable for professional hammering out edges and beads
- For hard-to-reach areas too
- Does not destroy the edges
- 4-edge handle for controlling the tool position in hollows
- Can be folded together
- Special steel



	Width mm	Length mm	kg
140.2456	148.0	450.0	1.02

**Universal clamping yoke**

- Suitable for bodywork repairs
- Ideal for hammering our extremely deep lying areas
- Can be used with slide hammer (M20 x 1.5)
- Adjustable plastic slider for aluminium
- Robust design
- Special steel



	Width mm	Connection thread mm	kg
140.2198	600.0	M20x1,5	5.70

**Super spotter - Welding gun 220V - 50/60 Hz**

- Handy workshop tool
- For the repair of bodywork damage
- For hammering out body panels
- Plastic housing

**Technical data:**

Attention idle cut-out: 200 Ampere  
Attention light cut-out: 200 Ampere



	Length mm	kg
500.8551	285.0	5.46

**Slide hammer puller 1.5 kg**

- For problem free hammering out of car bodywork panels
- With 1.5 kg slide weight
- Usable in connection with the super spotter
- Special steel



	Length mm	Height mm	Replacement span head	kg
500.8559	475.0	80.0	500.8561	2.08

**Super spotter - Welding gun set**

- Handy workshop tool
- For the repair of bodywork damage
- For hammering out body panels
- By means of special electrodes nails or washers are welded on the sheet metal so the dents can be removed with an impact hammer using accurate blows
- With a heat electrode placed hot points can be set on the sheet metal
- Also contains an electrode for welding copper-plated dome head screws for the reinforcement of housings, parts, etc. directly on the bodywork
- In durable plastic storage case

**Technical data:**

Attention idle cut-out: 200 Ampere  
Attention light cut-out: 200 Ampere



	kg	
500.8550	Super spotter - Welding gun set	10.39

consists of:

		kg
500.8551	Welding gun 220V, 50/60 Hz	5460
500.8554	Electrode for welding nails, Copper	10
500.8556	Electrode for rivets, magnetic, Copper	10
500.8557	Electrode for washers, Brass	10
500.8558	Heating electrode for hot spots, Brass	10
500.8559	Slide hammer puller 1,5 kg	2080
500.8560	Electrode extension, brass	10
500.8571	Spotter-consumables, welding nails copper coated, 2,0 x 50 mm, pcs 500	660
500.8572	Spotter consumables, copper plated, welding nails, 2,5 x 50 mm, pcs 100	210
500.8574	Spotter-consumables, screws copper coated, M 4 x 16 mm, pcs 100	30
500.8579	Spotter-consumables, screws copper coated, M 4 x 16 mm, pcs 100	140
500.8592	Washers 8.0 x 16.0 mm copper coated pcs 100	160

### Super spotter additional kit

- For removing of car body damage
- Includes the adaptor for the slide hammer puller
- The flexible and strong steel wire profile is used so the processing of securing car body panels
- The movable pull hooks situated can be pulled by the claw fastener straightening the carbody and/or the bump on
- It can be hooked on 1-9 pull hooks, at what point exact or extensive enabling the removal of dents



		kg
500.8530	15 pcs Super spotter additional kit	1.04

consists of:

		kg
500.8531	Welding-Electrode for corrugated wire for Spotter 500.8550	23
500.8532	Corrugated wire Ø 2 mm x L=310 mm 10 pcs.	122
500.8533	Corrugated wire positioner magnetic	34
500.8534	Multi hook head with 6 claw connection IG M14x 1.5	315
500.8536	System adaptor for slide hammer puller IG M14x1,5, for use with 500.8559	86
500.8572	Spotter consumables, copper plated, welding nails, 2,5 x 50 mm, pcs 100	210

### Super spotter electrodes

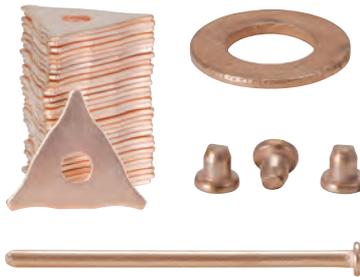
- Usable in connection with the super spotter
- Copper and/or brass



		kg
500.8554	Electrode for welding nails, Copper	10
500.8556	Electrode for rivets, magnetic, Copper	10
500.8562	Electrode for screws, Copper	20
500.8557	Electrode for washers, Brass	10
500.8558	Heating electrode for hot spots, Brass	10
500.8560	Electrode extension, brass	10

### Super spotter consumables

- Usable in connection with the super spotter
- For the reinforcement of the car body
- Copper coated



		kg
500.8570	Welding nail, 100pcs, 2x50mm	140
500.8571	Welding nail, 500pcs, 2x50mm	660
500.8572	Welding nail, 100pcs, 2.5x50mm	210
500.8573	Welding nail, 500pcs, 2.5x50mm	1150
500.8592	Washer, 100pcs, 8x16mm	160
500.8595	Triangular-washer 2.5 x 50.0 mm copper coated 100pcs	500
500.8574	Rivet, 100pcs, 3x3.2mm	30
500.8575	Rivet, 100pcs, 3x4.5mm	40
500.8576	Rivet, 100pcs, 5x8.2mm	40
500.8579	Screw, 100pcs, M4x16mm	140

### Hydraulic vehicle alignment tool kit, 4 t

- For pressing, clamps and spreading of car body parts
- Simple handling due to plug in connection
- Includes hydraulic hand pump/ high pressure cylinder 4 t, detachable handle, pressure plate, and various attachments
- Special steel
- In durable plastic storage case with handle



		kg
160.0445	15 pcs Hydraulic vehicle alignment tool kit, 4 t	17.50

consists of:

		kg
160.0446	Hydraulic-Pump for bodywork alignment tool, 4 t	5.20
160.0447	Hydraulic-piston for bodywork alignment tool, 4 t	1.80
160.0448	Extension tube for bodywork alignment tool, 400 mm	1.20
160.0449	Extension tube for bodywork alignment tool, 300 mm	0.96
160.0451	Extension tube for bodywork alignment tool, 200 mm	0.70
160.0452	Extension tube for bodywork alignment tool, 100 mm	0.45
160.0453	Adaptor extension	0.20
160.0454	Pressure plate 110 x 65 mm	0.75
160.0455	Pressure plate, V form	0.13
160.0456	Piston attachment (laterally offset)	0.34
160.0457	Wedge adaptor (notched)	0.21
160.0458	Rubber ball, Ø 67 mm	0.26
160.0459	Adaptor head, Cylinder serrated Ø: 35 mm	0.20
160.0461	Pressure plate (laterally offset)	0.31
160.0462	Adaptor for bodywork alignment tool, 4 t	1.73

### Hydraulic alignment tool kit, 10 t

- For pressing, clamps and spreading of car body parts
- Simple handling due to plug in connection
- Includes hydraulic hand pump/ high pressure cylinder 10 t, detachable handle simple handling due to plug in connection
- Special steel
- In durable wheeled storage case



		kg
160.0175	17 pcs Hydraulic alignment tool kit, 10 t	41.00

consists of:

		kg
160.0176	Hydraulic pump f.body repair kit, 10 t	7.00
160.0177	Hydraulic piston f.body repair kit, 10 t	5.55
160.0178	Adaptor f.bodywork alignment tool	1.93
160.0179	Extension tube f.body repair kit, 530mm	3.34
160.0180	Extension tube f.body repair kit, 400mm	1.66
160.0181	Extension tube f.body repair kit, 300mm	1.70
160.0182	Extension tube f.body repair kit, 175mm	1.70
160.0183	Adaptor f.body repair kit, MxM	1.66
160.0184	Pressure plate, V form	1.14
160.0185	Pressure plate, 150x95mm	0.66
160.0186	Wedge adaptor (notched)	0.66
160.0187	Pressure plate (laterally offset)	0.86
160.0188	Piston attachment (laterally offset)	0.86
160.0189	Rubber ball, Ø 80 mm	0.66
160.0190	Adaptor head, cylinder serrated Ø 50 mm	1.14

### Clamp for preparation working

- Ideally suited to avoiding deformations during preparation working
- Central tube can be rotated to short or lengthen the spanner
- With two adjustable jaws
- Robust design
- Special steel

Application range: Boot, engine compartment, etc.

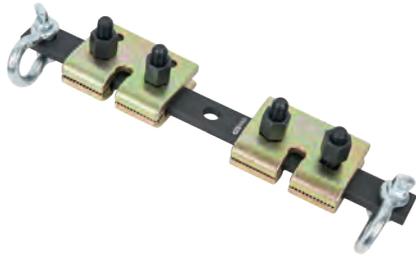


Opening of jaws min: 1000.0 mm  
 Jaw width max: 1200.0 mm  
 Width replacement jaws: 100.0 mm

		kg
700.1445	700.1446	5.00

**Universal tensioning clamp straightening iron**

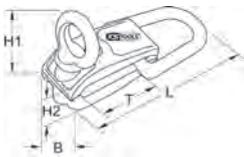
- Suitable for bodywork repairs and pulling
- 2 adjustable jaws for secure attachment
- Includes 2 blades
- Maximum load 5 tonnes
- Universal application by adjusting the adjustable jaws
- Robust design
- Special steel



	L mm	Width replacement jaws mm	
700.1457	450.0	120	6260

**Mini pull clamp**

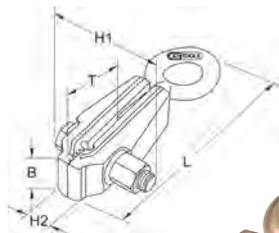
- Two directions of pull
- Eyelet can be mounted to the left and right
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	
140.2400	150.0	36.0	100.0	42.0	27.0	M12x1,75	930

**Standard pull clamp**

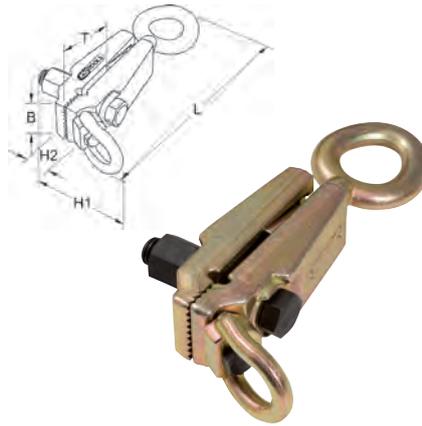
- One direction of pull
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	
140.2405	220.0	44.0	90.0	22.0-42.0	32.0	TG/M17x90	1.95

**Standard pull clamp with 2 pull directions**

- Two directions of pull
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	
140.2410	220.0	44.0	125.0	22.0-80.0	32.0	TG/M17x90	2.13

**Small pull clamp**

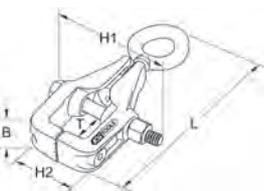
- One direction of pull
- No distorting due to the security device
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	
140.2415	255.0	32.0	85.0	23.0-42.0	70.0	TG/M14x85	1.65

**Box pull clamp**

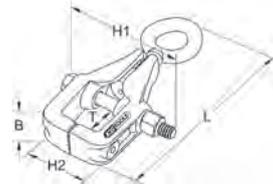
- One direction of pull
- Extra instep
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	
140.2420	245.0	38.0	130.0	80.0-85.0	64.0	TG/M14x130	2.04

**Box pull clamp with adaptable jaws**

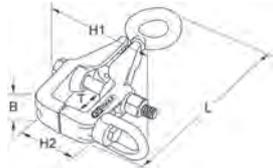
- One direction of pull
- Extra instep
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	
140.2425	245.0	38.0	130.0	80.0-85.0	64.0	TG/M14x130	2.01

**Box pull clamp with 2 pull directions**

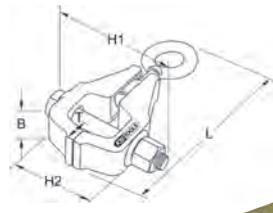
- Two directions of pull
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	
140.2430	245.0	38.0	155.0	80.0-145.0	64.0	TG/M14x130	2.21

**Maxi pull clamp**

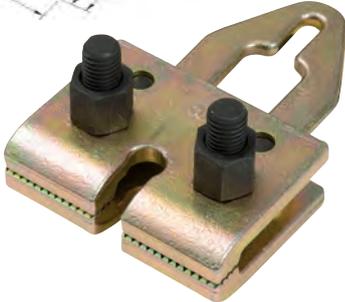
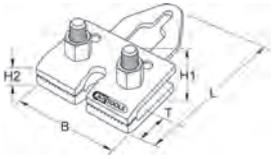
- One direction of pull
- With extra large mouth
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	
140.2435	240.0	46.0	150.0	20.0-100.0	42.0	TG/M19x150	3.00

### Double jaw pull clamp

- One direction of pull
- No distorting due to the security device
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	kg
140.2440	175.0	120.0	90.0	22.0-36.0	32.0	TG/M17x90	2.49

### Single-ended tensioning clamp

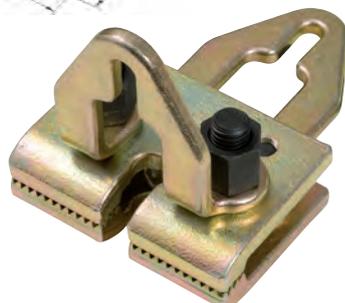
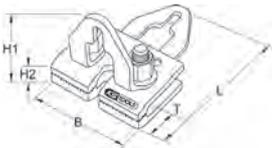
- One direction of pull
- With extra-large mouth
- Ideal for car body repairs
- Solid design
- Special steel



	L mm	B mm	T mm	Fixing bolt	kg
140.2404	170.0	40.0	32.0	TG/M14x90	1.20

### Double jaw pull clamp with 2 pull directions

- Two directions of pull
- No distorting due to the security device
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	kg
140.2445	175.0	120.0	140.0	22.0-135.0	32.0	TG/M17x90	2.86

### Double jaw pull clamp with 3 pull directions

- Three directions of pull
- No distorting due to the security device
- Ideal for car body repairs
- Extremely versatile
- Special steel



	L mm	B mm	H1 mm	H2 mm	T mm	Fixing bolt	kg
140.2450	175.0	120.0	140.0	22.0-135.0	32.0	TG/M17x90	3.40

### V tensioning clamp

- One direction of pull
- Ideal for car body repairs
- Solid design
- For use alongside the universal slide hammer (700.1415), adaptor (700.1421), and double hook (700.1425)
- Special steel



	L mm	B mm	Fixing bolt	kg
140.2436	135.0	35.0	M12x70	0.67

### Universal pull hook

- Universal car bodywork pull hooks
- Ideally suited for all ring eyelet tools
- High quality and compensated alloy steel
- Special steel



	kg
140.2455	2 pcs Universal pull hook
	1.00

### Pulling chain connector

- Ideal for connecting or shortening pulling chains
- Suitable for 3/8" and 5/16" chains
- Maximum load 10 tonnes
- Simple, secure and easy to use
- Special steel



	Total length mm	kg
140.2462	255.0	1.22

### Universal bodywork tensioning clamp

- Ideal for car body repairs
- One direction of pull
- For narrow spaces
- Solid design
- Special steel



	L mm	B mm	H1 mm	kg
140.2469	260.0	35.0	30.0	1.85

### Universal tension plate

- Universal bodywork tensioning plate
- A variety of holes for aligning any standard frame and many module chassis
- Ideal for car body repairs
- Solid design
- Special steel



	Length mm	Width mm	Height mm	kg
140.2460	300.0	75.0	12.0	1.00

### Wing puller, small

- Ideal for removing the wings
- Suitable for universal use thanks to the different arches
- Also suitable for adjusting headlamp openings and door pillars
- Tensile force is distributed when pulling
- Special steel



	Length mm	Width mm	Height mm	kg
140.2465	160.0	220.0	80.0	1.50

**Wing puller, large**

- Ideal for removing the wings
- Suitable for universal use thanks to the different arches
- Also suitable for adjusting headlamp openings and door pillars
- Tensile force is distributed when pulling
- Special steel

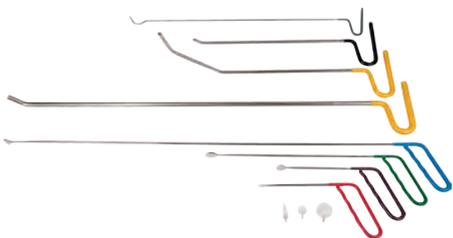
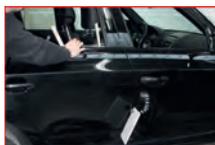


	Length mm	Width mm	Height mm	
140.2470	320,0	235,0	80,0	1,80

**HAMMERING TOOLS**

**Heel dolly set**

- Ideal for removing dents
- Ideal for hail damage
- Various head forms
- Simple handling
- Plastic handles
- With practical carrying bag
- Special steel



140.2490	11 pcs Heel dolly set 3,80

consists of:

140.2491	Semi-circular iron, 220 mm 100
140.2492	Semi-circular iron, 210 mm 100
140.2493	Round iron, 420 mm 150
140.2494	Semi-circular pointed iron, 600 mm 120
140.2495	Ball head iron, angled 460 mm 400
140.2496	Ball head iron, angled, 1000 mm 120
140.2497	Special iron with hook, 1070 mm 300
140.2498	Ball head iron, twice angled, 560 mm 500
140.2499	Set of plastic tips, 3 pcs. 240

**Aluminium panel beating hammer set**

- For hammering out the car body
- Ideal for small dents and stone chips
- Replaceable plastic heads
- For gentle sheet metal working
- PVC dipped handle



140.5290	5 pcs Aluminium panel beating hammer set 375

consists of:

140.5291	Panel beating hammer 333
140.5292	Plastic head, flat 13
140.5293	Plastic head, cone-shaped/long 9
140.5294	Plastic head, cone-shaped/short 8
140.5295	Plastic head, cylindrical 13

**Mini precision hammer set**

- For hammering out the car body
- Ideal for small dents and stone chips
- Metal and plastic head for gentle sheet metal working
- Flexible handle in cone form



		g	Hammer Ø mm	head length mm	Total length mm
140.5296	3 pcs	63	24,0	43,0	180,0

consists of:

140.1246	Mini precision hammer, 180 mm 53
140.1247	Metal head, curved 15
140.1253	Plastic head, curved 7



**Mini precision hammer set**

- For hammering out the car body
- Ideal for small dents and stone chips
- Various metal and plastic heads for gentle sheet metal working
- Flexible handle in cone form
- In durable plastic storage case



140.1245	7 pcs Mini precision hammer set 242

consists of:

140.1246	Mini precision hammer, 180 mm 53
140.1247	Metal head, curved 15
140.1248	Aluminium head, curved 6
140.1249	Copper head, curved 18
140.1251	Copper head, cylindrical 25
140.1252	Plastic head, cylindrical 4
140.1253	Plastic head, curved 7

**Universal panel beating hammer set**

- For hammering out the car body
- Practical configuration
- For stretching and forming of car body sheet panels
- Hammer with 9 different attachments
- Special steel
- In durable plastic storage case



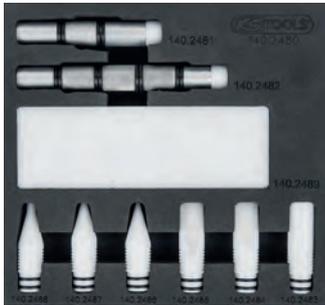
140.5245	14 pcs Universal panel beating hammer set 1,00

consists of:

140.5246	Universal hammer 190
140.5247	Corrugated attachment, coarse 66
140.5248	Corrugated attachment, fine 68
140.5249	Hammering attachment, smooth 74
140.5250	Hammering attachment, aluminium 32
140.5251	Hammer attachment, copper 82
140.5253	Hammer attachment, plastic 12
140.5261	Tip attachment, conical/flat 64
140.5262	Tip attachment, cone-shaped/tip 40
140.5263	Wedge adaptor 67
140.5264	Set of headless screws, 4 pcs. 4
140.5265	Burr arbour 15
151.2602	BASIC key wrench, hex, short, 2mm 10

### Kit of teflon wedges for varnished surface

- Ideal for reforming an over-compressed dent
- Hammering out without damage to paint
- Ridges are hammered out with targeted use of the hammer on the dents
- Also ideal for releasing tensioning in the sheet metal
- With interchangeable attachments
- Includes 2 handles
- Very rugged plastic



Part No.	Quantity	Description	Price
140.2480	10 pcs	Kit of teflon wedges for varnished surface	280

#### consists of:

Part No.	Description	Quantity
140.2481	Handle, short, 90 mm	32
140.2482	Handle, long, 130 mm	50
140.2483	Cylinder-shaped impact head	16
140.2484	Impact head, wedge-shaped, round	13
140.2485	Impact head, wedge-shaped, square	12
140.2486	Impact head, cone-shaped, tip	10
140.2487	Impact head, cone-shaped, round	11
140.2488	Cylinder-shaped impact head with cone	10
140.2489	Set of strike plates, 2 pcs., 155 mm	120

### Dent mirror

- Ideal for better identification of dents and bumps, e.g. hail damage
- Also suitable for mobile use
- With suction foot for straightforward use in the vehicle
- Freely adjustable using a gooseneck arm
- Arm can be easily separated from the screen with a snap lock for better transport
- Plastic



Part No.	Length mm	Width mm	Price
140.2597	240.0	200.0	370

### Dent mirror with light

- Ideal for better identification of dents and bumps, e.g. hail damage
- Also suitable for mobile use
- Stripes are projected on to the paint by penetration
- With suction foot for straightforward use in the vehicle
- Freely adjustable using a gooseneck arm
- Arm can be easily separated from the screen with a snap lock for better transport
- 230 V cable connector
- Closed plastic housing



Part No.	Length mm	Width mm	Price
140.2598	360.0	203.0	1480

### Professional slide hammer set

- Suitable for repairing small dents or bumps
- No filling or painting work
- Allows the flexible removal of the dent and provides the best results
- Includes small slide hammer
- With 10 different beating pads



Part No.	Quantity	Description	Price
140.2510	11 pcs	Professional slide hammer set	896

#### consists of:

Part No.	Description	Quantity
914.0066	Slide hammer	860
140.2501	Self-adhesive sheets, round, flat, Ø 40 mm	5
140.2511	Self-adhesive sheets, round, flat, Ø 35 mm	4
140.2521	Self-adhesive sheets, round, flat, Ø 32 mm	4
140.2531	Self-adhesive sheets, spherical, round, Ø 25 mm	3
140.2541	Self-adhesive sheets, spherical, round, Ø 20 mm	3
140.2551	Self-adhesive sheets, spherical, round, Ø 15 mm	2
140.2561	Self-adhesive sheets, elliptical, flat, 48 x 33 mm	5
140.2571	Self-adhesive sheets, elliptical, flat, 40 x 27 mm	4
140.2581	Self-adhesive sheets, elliptical, flat, 33 x 22 mm	3
140.2591	Self-adhesive sheets, rectangular, 32 x 17 mm	3

### Professional smart-repair dent puller set

- Suitable for repairing small dents or bumps
- No filling or painting work
- Allows the flexible removal of the dent and provides the best results
- Includes dent-pulling unit with rubber support feet
- With 10 different beating pads



Part No.	Quantity	Description	Price
914.0065	11 pcs	Professional smart-repair dent puller set	316

#### consists of:

Part No.	Description	Quantity
914.0067	Dent-pulling unit with rubber support feet	280
140.2501	Self-adhesive sheets, round, flat, Ø 40 mm	5
140.2511	Self-adhesive sheets, round, flat, Ø 35 mm	4
140.2521	Self-adhesive sheets, round, flat, Ø 32 mm	4
140.2531	Self-adhesive sheets, spherical, round, Ø 25 mm	3
140.2541	Self-adhesive sheets, spherical, round, Ø 20 mm	3
140.2551	Self-adhesive sheets, spherical, round, Ø 15 mm	2
140.2561	Self-adhesive sheets, elliptical, flat, 48 x 33 mm	5
140.2571	Self-adhesive sheets, elliptical, flat, 40 x 27 mm	4
140.2581	Self-adhesive sheets, elliptical, flat, 33 x 22 mm	3
140.2591	Self-adhesive sheets, rectangular, 32 x 17 mm	3

### Pneumatic smart-repair dent puller set

- Suitable for repairing small dents or bumps
- No filling or painting work
- Allows the flexible removal of the dent and provides the best results
- Includes pneumatic dent puller
- With 10 different beating pads



Part No.	Quantity	Description	Price
140.2520	12 pcs	Pneumatic smart-repair dent puller set	1.48

consists of:

140.2522	Pneumatic hammering puller	1440	
140.2501	Self-adhesive sheets, round, flat, Ø 40 mm	5	
140.2511	Self-adhesive sheets, round, flat, Ø 35 mm	4	
140.2521	Self-adhesive sheets, round, flat, Ø 32 mm	4	
140.2531	Self-adhesive sheets, spherical, round, Ø 25 mm	3	
140.2541	Self-adhesive sheets, spherical, round, Ø 20 mm	3	
140.2551	Self-adhesive sheets, spherical, round, Ø 15 mm	2	
140.2561	Self-adhesive sheets, elliptical, flat, 48 x 33 mm	5	
140.2571	Self-adhesive sheets, elliptical, flat, 40 x 27 mm	4	
140.2581	Self-adhesive sheets, elliptical, flat, 33 x 22 mm	3	
140.2591	Self-adhesive sheets, rectangular, 32 x 17 mm	3	
140.2523	Extension adaptor	37	

**Self-adhesive sheets for hammering tools**

- Suitable for repairing small dents or bumps
- No filling or painting work
- Allows the flexible removal of the dent and provides the best results
- For use alongside a planishing tool



Content			
140.2505	5 Self-adhesive sheets, round, flat, Ø 40 mm, 5 pcs	25	
140.2515	5 Self-adhesive sheets, round, flat, Ø 35 mm, 5 pcs	20	
140.2525	5 Self-adhesive sheets, round, flat, Ø 32 mm, 5 pcs	20	
140.2535	5 Self-adhesive sheets, spherical, round, Ø 25 mm, 5 pcs	15	
140.2545	5 Self-adhesive sheets, spherical, round, Ø 20 mm, 5 pcs	15	
140.2555	5 Self-adhesive sheets, spherical, round, Ø 15 mm, 5 pcs	10	
140.2565	5 Self-adhesive sheets, elliptical, flat, 48 x 33 mm, 5 pcs	25	
140.2575	5 Self-adhesive sheets, elliptical, flat, 40 x 22 mm, 5 pcs	20	
140.2585	5 Self-adhesive sheets, elliptical, flat, 33 x 22 mm, 5 pcs	15	
140.2595	5 Self-adhesive sheets, rectangular, 32 x 17 mm, 5 pcs.	15	

**Pneumatic vacuum dent puller set**

- Ideal for processing bumps in bodywork
- A vacuum creates an underpressure and the suction disks stick to the bodywork allowing dents to be easily pulled out
- Pneumatic regulation via ball valve
- Includes 3 exchangeable suction discs and 1 pull hook
- Special steel
- In durable plastic storage case



**Technical data:**

- Operating pressure: 6 - 8 bar
- Min. tube diameter: 1/4" - 6,3mm
- Connection thread: 1/4"
- Slide hammer weight: 1,2 kg
- Removal power: bis zu 100 Kg

140.2080	5 pcs	Pneumatic vacuum dent puller set	4.50

consists of:

140.2083	Panel beating hammer with impact weight	2400	
140.2084	Suction disk Ø 75 mm	126	
140.2085	Suction disk Ø 100 mm	170	
140.2086	Suction disk Ø 125 mm	260	
140.2087	Pull hook	100	

**Aluminium hammer**

- With hickory handle
- Aluminium head
- Protective material



	g	D mm	L1 mm	L2 mm	hands spare		
140.2121	280	30.0	310.0	145.0	140.2122	140.2123	380

**Aluminium bodywork hammering set**

- For hammering out aluminium car body panels
- Practical configuration
- For stretching and forming of aluminium car body sheet panels
- In durable plastic storage case



140.2475	7 pcs	Aluminium bodywork hammering set	3.50

consists of:

140.2476	Aluminium bodywork recess heel dolly	186	
140.2477	Aluminium bodywork comma heel dolly	350	
140.2478	Aluminium bodywork universal heel dolly	210	
140.2479	Aluminium bodywork toe heel dolly	265	
700.1489	Aluminium bodywork pick hammer curved head, round/tip	110	
700.1490	Aluminium bodywork flat pick hammer curved head, round/flat tip	140	
700.1491	Aluminium bodywork standard hammer curved head, round/square	148	

**Panel beater's serrated hammer, round/tip**

- For reworking repaired areas
- Stresses are removed from the plate using a special profile in the impact area
- For tightening with a round, rough serrated head
- Fine face curved for accurate hammering out
- Special steel



	Length mm	head length mm	Ø round side mm	Tip width mm	
140.2109	280.0	120.0	40.0	20.0	460

**Panel beaters hammer**

- With ash handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	hands spare		
140.4003	400	30.0	310.0	118.0	140.5304	140.5404	560

**Panel beaters hammer, small round/square**

- Simple hammer with a flat, angular face and a round, slightly arched face
- Work areas ground
- Special steel



	L mm	head length mm	Ø round side mm	square dia. mm	
140.2138	325.0	100.0	30.0	28 x 28 mm	390

**Panel beaters standard hammer, large round/square**

- Planishing hammer with a square and round, flat face
- Work areas ground
- Special steel



	L mm	head length mm	Ø round side mm	square dia. mm	
140.2133	325.0	100.0	40.0	39 x 39 mm	420

### Panel beaters serrated hammer fine, round/square

- For forming with a square, rough serrated face
- For stretching with a round, slightly domed face
- Round work surfaces ground
- Special steel



	L mm	head length mm	Ø round side mm	square dim. mm	g
140.2139	325.0	100.0	40.0	38 x 38 mm	490

### Panel beaters serrated hammer, round/square

- For forming with a square, finely serrated face
- For stretching with a round, slightly domed face
- Round work surfaces ground
- Special steel



	L mm	head length mm	Ø round side mm	square dim. mm	g
140.2132	325.0	100.0	40.0	38 x 38 mm	490

### Panel beaters hammer, round/square

- Bumping hammer with strong arched faces
- Work areas ground
- Special steel



	L mm	head length mm	Ø round side mm	square dim. mm	g
140.2130	325.0	105.0	30.0	26 x 26 mm	390

### Panel beaters hammer rounded head, small round/square

- Simple hammer with a flat, angular face and a round, slightly arched face
- Work areas ground
- Special steel



	L mm	head length mm	Ø round side mm	square dim. mm	g
140.2135	325.0	100.0	30.0	27 x 27 mm	390

### Aluminium bodywork pick hammer curved head, round/ tip

- For hammering out aluminium car body panels
- Planishing hammer with a round, slightly domed face
- Fine conical face for accurate hammering out
- Polished surface
- Aluminium



	L mm	head length mm	Ø round side mm	g
700.1489	300.0	140.0	40.0	110

### Panel beaters pick hammer straight head, round/pointed

- Planishing hammer with a round, slightly domed face
- Fine conical face for accurate hammering out
- Work areas ground
- Special steel



	L mm	head length mm	Ø round side mm	g
140.2137	325.0	140.0	40.0	460

### Aluminium bodywork flat pick hammer curved head, round/flat tip

- For hammering out aluminium car body panels
- Planishing hammer with a round, slightly domed face
- Fine face for accurate hammering out
- Polished surface
- Aluminium



	L mm	head length mm	Ø round side mm	Tip width mm	g
700.1490	300.0	140.0	40.0	20.0	140

### Panel beaters pick hammer straight head, round/flat point

- Planishing hammer with a round, slightly domed face
- Fine face for accurate hammering out
- Work areas ground
- Special steel



	L mm	head length mm	Ø round side mm	Tip width mm	g
140.2136	325.0	140.0	40.0	19.0	460

### Panel beaters pick hammer straight head, flat/pointed

- Planishing hammer with a round, slightly domed face
- Fine face curved for accurate hammering out
- Work areas ground
- Special steel



	L mm	head length mm	Ø round side mm	Tip width mm	g
140.2131	325.0	140.0	40.0	19.0	460

### Aluminium bodywork standard hammer curved head, round/square

- For hammering out aluminium car body panels
- Simple hammer with a flat, angular face and a round, slightly arched face
- Polished surface
- Aluminium



	L mm	head length mm	Ø round side mm	square dim. mm	g
700.1491	300.0	100.0	40.0	38 x 38 mm	148

### Panel beaters standard hammer curved head, large round/square

- Simple hammer with a flat, angular face and a round, slightly arched face
- Work areas ground
- Special steel



	L mm	head length mm	Ø round side mm	square dim. mm	g
140.2134	325.0	100.0	40.0	38 x 38 mm	490

### Wing dinging hammer

- Ideal for hammering out the wings
- Extra heavy execution
- Fine face curved for accurate hammering out
- Safe and easy use
- Polished working surfaces
- With hickory handle
- Special steel



	Length mm	head length mm	square dim. mm	Tip width mm	kg
140.2461	380	220	30 x 38 mm	35	1.31

**Bodywork serrated hammer**

- For hammering out the bodywork area
- High-quality design
- Work area coarse
- Special steel



	Length mm	head length mm	square dim./mm	
140.2204	325.0	60.0	30 x 45 mm	330

**Bodywork standard hammer, slightly curved**

- For hammering out the bodywork area
- High-quality design
- Work area ground and lightly arched
- Special steel



	Length mm	head length mm	square dim./mm	
140.2209	325.0	60.0	30 x 45 mm	330

**Bodywork standard hammer, sharply curved**

- For hammering out the bodywork area
- High-quality design
- Work area ground and strongly arched
- Special steel



	Length mm	head length mm	square dim./mm	
140.2319	325.0	60.0	30 x 45 mm	360

**Bodywork dinging hammer set**

- For hammering out the car body
- High-quality design
- Optimum composition of rough and curved faces
- Polished working surfaces
- Special steel
- In durable plastic storage case



140.2200	3 pcs Bodywork dinging hammer set	1.02

consists of:

140.2204	Bodywork serrated hammer	330
140.2209	Bodywork standard hammer, slightly curved	330
140.2319	Bodywork standard hammer, sharply curved	360

**Car body panel beating set**

- For hammering out on the car body area
- High quality execution
- Includes clamping and simple tools
- Special steel



140.2125	3 pcs Car body panel beating set	2.04

consists of:

140.2112	Car bodywork panel beating grid toe dolly 127mm	1130
140.2132	Panel beaters hammer, serrated hammer large round/square	490
140.2133	Panel beaters hammer, standard hammer arched, round/square	420

**Car body panel beating set**

- For hammering out on the car body area
- Practical grouping together
- For stretching and forming of car body sheet panels
- In durable plastic storage case



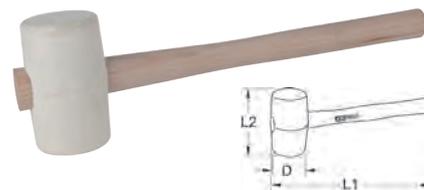
140.2100	7 pcs Car body panel beating set	7.50

consists of:

140.2114	Car bodywork-universal slapping dolly, 70 mm	1380
140.2115	Car bodywork-pointed slapping dolly, arched and ground, 130 mm	1630
140.2116	Car bodywork-heel dolly, arched and ground, 60 mm	1130
140.2119	Car bodywork-toe dolly (large), 120 mm	1400
140.2133	Panel beaters hammer, standard hammer arched, round/square	420
140.2137	Panel beaters-pick hammer straight head, round/pointed, ground 325 mm	460
140.2139	Panel beaters-serrated hammer fine head, (round/square), ground, 325 mm	490

**Rubber hammer**

- DIN 5128
- With tapered ash inserted handle
- Hammer head made out of hard rubber
- With white rubber head



	g	D mm	L1 mm	L2 mm	
140.1234	270	50.0	320.0	85.0	540
140.1235	500	65.0	335.0	115.0	540
140.1236	700	74.0	375.0	126.0	750

**Rubber hammer**

- DIN 5128
- With ash handle
- Hammer head made out of hard rubber



	g	D mm	L1 mm	L2 mm	handl.-score	
140.5221	300	54.0	300.0	85.0	140.5304 140.5404	360
140.5222	500	67.0	310.0	100.0	140.5305 140.5405	560
140.5223	700	74.0	330.0	120.0	140.5306 140.5405	760

**Rubber hammer**

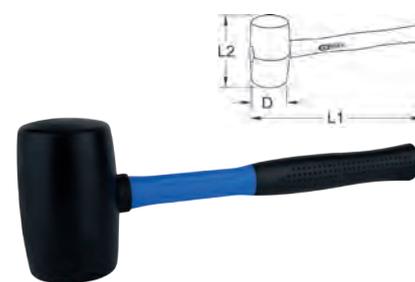
- DIN 5128
- With tapered ash inserted handle
- Hammer head made out of hard rubber



	g	D mm	L1 mm	L2 mm	
140.1230	520	60.0	340.0	110.0	540

**Rubber hammer**

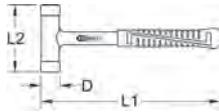
- DIN 5128
- With fiberglass handle
- Hammer head made out of hard rubber



	g	D mm	L1 mm	L2 mm	
140.1237	700	56.0	3250.0	100.0	60

### Recoil free soft faced hammer

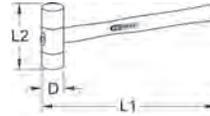
- With hickory handle
- Shock absorbing effect through steel shot in the head
- Up to 100% higher impact effect than normal Soft head hammers
- Shatterproof and wear resistant
- Polyamid heads interchangeable
- For safer working with less recoil



	g	D mm	L1 mm	L2 mm	kg
140.1215	350	32.0	330.0	120.0	60

### Plastic hammer

- With transparent heads made from impact resistant cellulose acetate
- Impact heads are exchangeable (screw thread)
- With ash handle
- Ideal for hammering out and gentle sheet metal working



	g	D mm	L1 mm	L2 mm	hands.spare	kg
140.5201	200	28.0	260.0	82.0	140.5301 140.5401	210
140.5202	340	35.0	300.0	95.0	140.5304 140.5404	350

### 3 in 1 Heel dolly

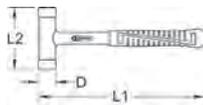
- With a round form, a tip and anvil form
- Ideal for beating out bumps and dents
- With arched and ground work surfaces
- Polished surface
- Steel



	B mm	H mm	L mm	kg
140.2105	37.0	74.0	61.5	285
140.2106	37.0	86.5	39.5	394
140.2107	42.0	74.0	98.5	590

### Recoil free soft faced hammer

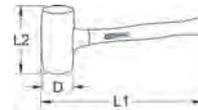
- With steel tube handle and plastic handle
- Shock absorbing effect through steel shot in the head
- Up to 100% higher impact effect than normal Soft head hammers
- Shatterproof and wear resistant
- Polyamid heads interchangeable
- For safer working with less recoil



	g	D mm	L1 mm	L2 mm	hands.spare	head.spare	kg
140.5270	360	25.0	270.0	105.0	-	140.5280	360
140.5271	480	30.0	290.0	105.0	-	140.5281	480
140.5272	590	35.0	295.0	110.0	-	140.5282	590
140.5273	850	40.0	300.0	120.0	-	140.5283	850
140.5274	990	45.0	305.0	120.0	-	140.5284	990
140.5275	1110	50.0	310.0	125.0	-	140.5285	1110
140.5276	1290	55.0	325.0	135.0	-	140.5286	1290
140.5277	1670	60.0	335.0	140.0	-	140.5287	1670

### Recoil free soft faced hammer

- With polyurethane glass-fibre composite handle
- Serrated surface for secure grip
- Free of sparks due to rubber cover
- Special absorbing effect through steel shot balls in the hammer head
- Substantially higher blow effect than in conventional hammering
- For safer working



	g	D mm	L1 mm	L2 mm	hands.spare	kg
140.5252	210	35.0	280.0	90.0	-	400
140.5254	390	45.0	300.0	90.0	-	580
140.5255	540	50.0	320.0	100.0	-	795
140.5256	710	55.0	355.0	110.0	-	1050
140.5257	915	60.0	365.0	120.0	-	1270
140.5258	1230	65.5	375.0	130.0	-	1540

### 3 in 1 Heel dolly set

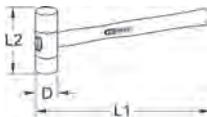
- Each tool with 1 x round form, 1 x tip and 1 x anvil form
- Ideal for beating out bumps and dents
- With arched and ground work surfaces
- Each form provided in different sizes
- For working in hard to access areas
- Steel



	kg
140.2108	3 pcs 3 in 1 Heel dolly set 1.37

### Nylon hammer

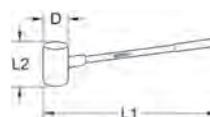
- With impact heads made out of impact resistant nylon
- Shatterproof, break and wear-resistant
- With ash handle
- Ideal for hammering out and gentle sheet metal working



	g	D mm	L1 mm	L2 mm	hands.spare	kg
140.5211	200	28.0	260.0	82.0	140.5301 140.5401	230
140.5212	340	35.0	300.0	95.0	140.5304 140.5404	450

### Recoil free soft faced hammer, extra large

- With polyurethane glass-fibre composite handle
- Rubber handle for better grip
- Special absorbing effect through steel shot balls in the hammer head
- Substantially higher blow effect than in conventional hammering
- For safer working



	g	D mm	L1 mm	L2 mm	hands.spare	kg
140.5259	4500	80.0	890.0	180.0	-	4.76
140.5260	5000	105.0	900.0	200.0	-	5.26

consists of:

	kg
140.2105	3 in 1 heel dolly, 37 x 74 mm 285
140.2106	3 in 1 heel dolly, 37 x 86.5 mm 394
140.2107	3 in 1 heel dolly, 42 x 98.5 mm 590

### Bodywork drip moulding spoon

- With blue lacquered handle
- Work areas ground and polished
- Special steel



	L mm	B mm	kg
140.2151	240.0	45.0	1.07

**Bodywork slapping spoon**

- With blue lacquered handle
- Work areas ground and polished
- Light execution
- Special steel



	L mm	B mm	kg
140.2150	250.0	50.0	290

**Dent tool, wide**

- Suitable for bodywork work
- Wide shape
- Robust design
- Special steel



	Length mm	Width mm	kg
156.0520	290.0	50.0	840

**Bodywork grid toe dolly**

- Arched work area
- For stretching with grooved surface
- Grooved surface has red lacquer
- Polished surface



	L mm	B mm	kg
140.2112	120.0	58.0	1.13

**Dent tool**

- Suitable for bodywork work
- Wide shape
- Robust design
- Special steel



	Length mm	Width mm	kg
156.0507	420.0	60.0	1.82

**Dent tool, long**

- Suitable for bodywork work
- Wide and long form
- Robust design
- Special steel



	Length mm	Width mm	kg
156.0529	390.0	55.0	1.26

**Aluminium bodywork comma heel dolly**

- For hammering out aluminium car body panels
- Upper areas arched and ground on all sides
- Universal usage
- Polished surface
- Aluminium



	L mm	B mm	kg
140.2477	135.0	60.0	350

**Panel beating pry bar**

- Suitable for bodywork work
- Wide, cranked form
- Robust design
- Special steel



	Length mm	Width mm	kg
156.0506	520.0	60.0	2.24

**Bodywork slapping heel dolly**

- With flat, arched and ground work areas
- Polished surface



	L mm	B mm	kg
140.2110	105.0	60.0	670

**Bodywork curved heel dolly**

- Upper areas on all sides arched and ground
- Polished surface



	L mm	B mm	kg
140.2115	130.0	59.0	1.63

**Dent tool, narrow**

- Suitable for bodywork work
- Narrow form
- Robust design
- Special steel



	Length mm	Width mm	kg
156.0519	270.0	30.0	620

**Bodywork toe dolly, small**

- With flat, arched and ground work areas
- Polished surface
- Narrow execution



	L mm	B mm	kg
140.2111	115.0	55.0	960

**Aluminium bodywork recess heel dolly**

- For hammering out aluminium car body panels
- Upper areas arched and ground on all sides
- Universal usage
- Polished surface
- Aluminium



	L mm	B mm	kg
140.2476	75.0	30.0	186

### Bodywork heel dolly

- Upper areas on all sides arched and ground



	L mm	B mm	kg
140.2116	60.0	80.0	1.13

### Bodywork ambos heel dolly

- Work areas arched and ground
- Polished surface



	L mm	B mm	Handle mm	kg
140.2117	130.0	65.0	120.0	3.66

### Bodywork small anvil heel dolly

- Work areas arched and ground
- Polished surface



	L mm	Head Ø mm	kg
140.2103	125.0	54.0	750

### Body work large anvil heel dolly

- Work areas arched and ground
- Polished surface



	L mm	kg
140.2104	125.0	1.20

### Bodywork dome dolly with handle

- With slightly arched and ground work areas
- Polished surface



	L mm	B mm	kg
140.2118	60.0	80.0	1.47

### Aluminium bodywork toe heel dolly

- For hammering out aluminium car body panels
- Upper areas arched and ground on all sides
- Universal usage
- Polished surface
- Aluminium



	L mm	B mm	kg
140.2479	102.0	58.0	265

### Bodywork toe dolly, large

- With flat, arched and ground work areas
- Polished surface



	L mm	B mm	kg
140.2119	120.0	58.0	1.40

### Bodywork outline dolly

- With flat, arched and ground work areas
- Polished surface



	L mm	B mm	kg
140.2120	120.0	58.0	1.63

### Bodywork double dolly

- In anvil form
- With arched and ground work surfaces
- Polished surface



	L mm	B mm	kg
140.2113	59.5	53.0	1.38

### Aluminium bodywork universal heel dolly

- For hammering out aluminium car body panels
- In hand fist form
- With arched and ground work surfaces
- Universal usage
- Polished surface
- Aluminium



	L mm	H mm	kg
140.2478	70.0	65.0	210

### Bodywork universal heel dolly

- In hand fist form
- With arched and ground work surfaces
- Universal usage
- Polished surface



	L mm	H mm	kg
140.2114	70.0	85.0	1.38

### Bodywork anvil dolly

- Diabolo-shaped
- Polished surface



	Ø mm	Height mm	kg
140.2101	55.0	55.0	740

**Bodywork anvil dolly wedge**

- Wedge-shaped
- Polished surface



	Length mm	Width mm	Height mm	 g
140.2102	111.0	62.0	27.0	840

**Fold alignment tool**

- Suitable for aligning bodywork panels
- Important registering tool
- Groove for lateral alignment
- Extremely durable
- Special plastic



	L mm	B mm	 g
140.2141	270.0	40.0	180



**Handling tool, semi-circular**

- Suitable for aligning bodywork panels
- Precise handling of profile panels
- Aligning curves
- Extremely durable
- Special plastic



	L mm	B mm	 g
140.2142	280.0	90.0	220

**Round anvil**

- Ideal for aligning bodywork panels
- Stable tip
- Simple handling
- Robust design
- Extremely durable
- Special plastic



	L mm	 g
140.2146	180.0	1.60

**Anvil dolly, flat and curved**

- Suitable for aligning bodywork panels
- Ideal for counter-holding
- Robust design
- Extremely durable
- Special plastic



	L mm	B mm	 g
140.2163	190.0	50.0	320

**Edge alignment tool**

- Suitable for aligning bodywork panels
- Used for aligning edges
- Robust design
- Extremely durable
- Special plastic



	L mm	B mm	 g
140.2149	280.0	100.0	200

**Profile alignment block**

- Suitable for aligning bodywork panels
- For angled contours
- For large areas
- Extremely durable
- Special plastic



	L mm	B mm	 g
140.2144	360.0	60.0	1.28

**Rubber guide wedge, small**

- Suitable for aligning bodywork panels
- Optimal resistance
- For narrow sites
- Robust design
- Special plastic



	L mm	B mm	H mm	 g
140.2164	65.0	75.0	40.0	400

**Rubber guide wedge, large**

- Suitable for aligning bodywork panels
- Optimal resistance
- Robust design
- Special plastic



	L mm	B mm	H mm	 g
140.2167	120.0	75.0	40.0	700

**WING BRAKE PIPE FLARING**

**Universal wing flange tool**

- Ideal for expanding the wing
- Suitable for 4 and 5-hole wheel hubs
- Extremely gentle on paintwork
- Secure and easy to use
- Special steel



	Length mm	Width mm	Height mm	 g
140.2096	440.0	150.0	260.0	6.88

## BODYWORK FILES

### Bodywork file

- With a handle for safe one handed usage
- For flat applications
- Double sided blade
- Includes a blade
- With two component handle
- Special steel



	Cut	Length mm	Width mm	File blade	
140.3010	1 Single cut	490.0	35.0	140.3013	640
140.3011	1 Cross cut	490.0	35.0	140.3014	640
140.3012	3 Cross cut	490.0	35.0	140.3015	640

### Bodywork file blade holder

- With a handle and knob for safe two handed usage
- For flat applications
- Suitable for file blade; radial and helical toothing
- Made out of wood



	Length mm	Width mm	
140.3016	525.0	25.0	350

### Bodywork file blade

- DIN 7264 Form A
- sides
- Milled, helical toothing
- Suitable for bodywork file blade holder 140.3016



	Length mm	Width mm	
161.0017	350.0	35.0	250
161.0018	350.0	35.0	250
161.0019	350.0	35.0	250

### Bodywork file blade

- DIN 7264 Form A
- sides
- Milled, radial toothing
- Suitable for bodywork file blade holder 140.3016



	Length mm	Width mm	
161.0021	350.0	35.0	262
161.0022	350.0	35.0	262

### Bodywork file blade holder

- With a handle and knob for safe two handed usage
- For semi-circular applications
- Suitable for file blade; semi-circular (hollow)
- Made out of wood



	Length mm	Width mm	
140.3017	525.0	25.0	277

### Bodywork file blade

- DIN 7264 Form F
- Semi-circular (hollow)
- Semi-circular, radial toothing
- Suitable for bodywork file blade holder 140.3017



	Length mm	Width mm	
161.0023	350.0	30.0	250

### Bodywork file, adjustable

- With a handle and knob for safe two handed usage
- For flat and curved applications
- Double sided blade
- Includes one blade - radius 10 teeth
- Aluminium



	Length mm	Width mm	Replacement holder	Replacement blade	
140.3090	350.0	34.0	140.3091	140.3092	770

### Flexible sanding paper holder with rubber mat

- With quick clamping system for holding the sanding paper
- Rubber mat ensures a firm seating of the sanding paper
- Extremely flexible
- Adapts itself to the bodywork
- Ergonomic wooden handles

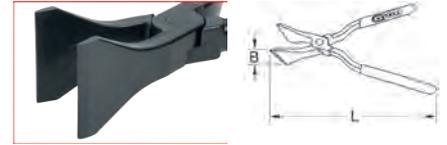


	Length mm	Width mm	
140.3019	400.0	70.0	440

## HOLE, SETTING, AND SEAM PLIERS

### Seaming pliers

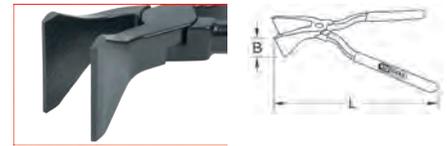
- For folding of sheet metal
- Straight design
- Insulated handle
- Cast iron



	L mm	B mm	
222.1601	280.0	52.0	660

### Seaming pliers

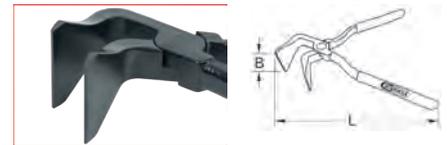
- For folding of sheet metal
- 45° angled jaws
- Insulated handle
- Cast iron



	L mm	B mm	
222.1602	260.0	52.0	670

### Seaming pliers

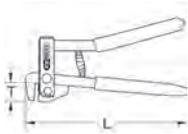
- For folding of sheet metal
- 90° angled jaws
- Insulated handle
- Cast iron



	L mm	B mm	
222.1603	260.0	52.0	760

**Mini joggler pliers**

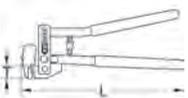
- Self opening
- For the flanging of sheet metal and body parts
- Up to 1 mm thickness
- Particularly suitable for thin sheet metal edges, curves and arches
- Requires light expenditure of energy
- Hardened flanging jaws
- Special tool steel



	L mm	T mm	kg
118.0056	220.0	13.0	900

**Joggler pliers**

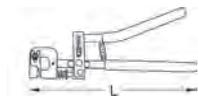
- Self opening
- For the flanging of sheet metal and body parts
- Up to 1 mm thickness
- Requires light expenditure of energy
- Hardened flanging jaws
- Special tool steel



	L mm	T mm	kg
118.0058	280.0	13.0	1.00

**Joggler pliers**

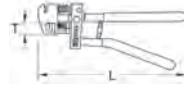
- Self opening
- For punching straight and bent sheet metal
- Up to 1.25 mm thickness
- Radius to 40,0 mm
- Hole diameter 5 mm
- Requires light expenditure of energy
- Special tool steel



	L mm	hole diameter	kg
118.0057	300.0	max. 5 mm	1.00

**Punched hole and joggler pliers**

- Self opening
- Fast conversion by simply turning the head
- For the flanging and punching sheet metal and body parts
- Punching up to 1,25 mm thickness
- Hole diameter 5 mm
- Requires light expenditure of energy
- Special tool steel



	L mm	T mm	hole diameter	kg
118.0055	285.0	13.0	max. 5 mm	1.23

**Punch pliers set**

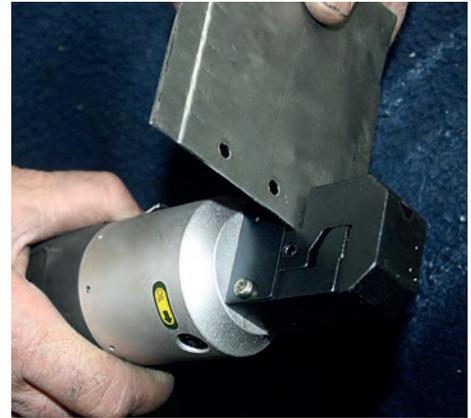
- Ideal for use in all sheet-metal processing areas
- Enormous punch force due to lever mechanism
- Work depth adjustable up to 47 mm
- 7 different punches with counter tool (2.38 mm-7.14 mm)
- Easy reconstruction
- PVC dipped handle
- Plier body from die-cast metal
- In durable plastic storage case



		kg
118.0105	16 pcs Punch pliers set	1.33

consists of:

		kg
118.0106	Joggler pliers	1020
118.0107	Punch, 2.38 mm	10
118.0108	Punch, 3.18 mm	10
118.0109	Punch, 3.97 mm	10
118.0110	Punch, 4.76 mm	10
118.0111	Punch, 5.56 mm	10
118.0112	Punch, 6.35 mm	10
118.0113	Punch, 7.14 mm	10
118.0114	Counter holder, 2.38 mm	5
118.0115	Counter holder, 3.18 mm	5
118.0116	Counter holder, 3.97 mm	5
118.0117	Counter holder, 4.76 mm	5
118.0121	Counter holder, 5.56 mm	5
118.0122	Counter holder, 6.35 mm	5
118.0123	Counter holder, 7.14 mm	5
118.0126	Assembly tool	11



**Pneumatic hole and joggler pliers**

- Self-opening
- For the flanging and punching sheet metal and body parts
- Flanging and punching up to a maximum material thickness of 1.5 mm
- Hole diameter 5 mm
- Lower power usage
- Rubber handle
- Special tool steel



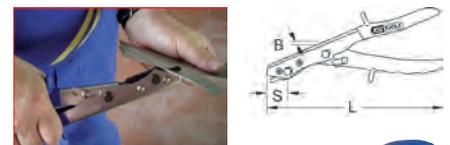
**Technical data:**  
 Rebate width: 22 mm  
 Rebate depth: 12 mm  
 Air consumption: 113 l/min  
 Operating pressure: 6.3 bar (90 psi)  
 Min. tube diameter: 3/8" - 10 mm  
 Connection thread: 1/4"

	Length mm	Ø mm	kg
515.1295	250.0	55.0	1.30

**SHEET METAL NIBBLER AND SNIPS**

**Sheet steel nibbler**

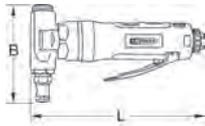
- Burr free cutting
- No deformation of the sheet metal
- Clean cut on the edges
- Easy locking action
- PVC dipped handle
- Cuts sheet metal up to 1.2 mm ideal also for aluminum, copper and plastic
- Special tool steel



	Ø mm	B mm	L mm	S mm	Replacement blades	kg
140.2175	1,2	14,0	265,0	3,0	140.2175-1	460

### Pneumatic nibbler

- 90° offset execution
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Ideal for curved and straight cutting
- Cut is made by punching a series of holes sequentially in sheet metal
- Also suitable for plastic cutting
- For extremely small radius
- With stepless speed regulation
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



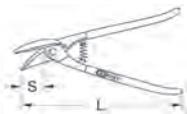
#### Technical data:

Cutting speed:	2,6 m/min
Cutting output:	steel 1,2 mm Aluminium 1,6 mm
Cutting width:	4,5 mm
Capacity:	330 Watt
Vibration:	< 0,5 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	82 dbA
Air consumption:	85 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3050	100.0	190.0	1.15

### Ideal shears

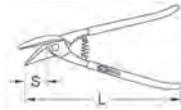
- Straight cut
- With spring
- Induction-hardened precision cutting
- With PVC dipped handle
- Cuts steel sheet up to 1.2 mm, stainless steel up to 0.7 mm
- Special tool steel



	Ø mm	L mm	S mm	kg
118.0145	1,2 (0,7)	280,0	38,0	630

### Tin snips, left handed cut

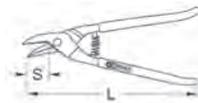
- Left handed cut
- With spring
- Induction-hardened precision cutting
- With PVC dipped handle
- Cuts steel sheet up to 1.2 mm, stainless steel up to 0.7 mm
- Special tool steel



	Ø mm	L mm	S mm	kg
118.0146	1,2 (0,7)	280,0	38,0	540

### Punching shears

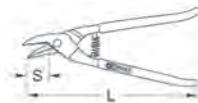
- Induction-hardened precision cutting
- With PVC dipped handle
- Cuts steel sheet up to 1.2 mm, stainless steel up to 0.7 mm
- Special tool steel



	Ø mm	L mm	S mm	kg
118.0147	1,2 (0,7)	250,0	42	455

### Punching scissors, left handed cut

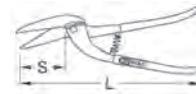
- Left handed cut
- Induction-hardened precision cutting
- With PVC dipped handle
- Cuts steel sheet up to 1.2 mm, stainless steel up to 0.7 mm
- Special tool steel



	Ø mm	L mm	S mm	kg
118.0148	1,2 (0,7)	250,0	42	455

### Pelican straight cut shears

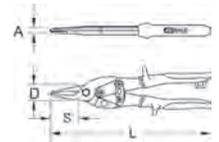
- Right hand cutting
- Straight cut
- With spring
- Induction-hardened precision cutting
- With PVC dipped handle
- Cuts steel sheet up to 1.2 mm, stainless steel up to 0.7 mm
- Special tool steel



	Ø mm	L mm	S mm	kg
118.0149	1,2 (0,7)	305,0	73,5	465

### Mini metal shears, straight cut

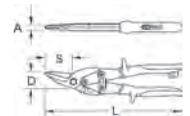
- Straight cut
- Optimal for fine working
- Self opening handle
- With internal spring
- With easy locking action
- Induction-hardened precision cutting
- With two component handle
- Cuts sheet metal up to 1.2 mm
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	kg
118.0152	1,2	10,0	20,0	180,0	20,0	300

### Mini metal shears, right handed cut

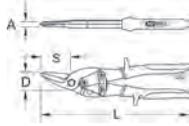
- Right handed cut
- Optimal for fine working
- Self opening handle
- With internal spring
- With easy locking action
- Induction-hardened precision cutting
- With two component handle
- Cuts sheet metal up to 1.2 mm
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	kg
118.0151	1,2	17,0	33,0	180,0	20,0	300

**Mini metal shears, left handed cut**

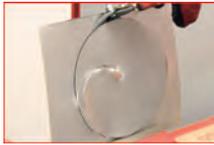
- Left handed cut
- Optimal for fine working
- Self opening handle
- With internal spring
- With easy locking action
- Induction-hardened precision cutting
- With two component handle
- Cuts sheet metal up to 1.2 mm
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	kg
118.0153	1,2	20,0	25,0	180,0	20,0	300

**Mini straight and shape cutting snip set**

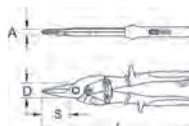
- Self opening handle
- With internal spring
- With easy locking action
- With two component handle
- 25% power savings
- Left, right hand cutting & straight
- Smooth blades
- Induction-hardened precision cutting
- Cuts sheet metal up to 1.2 mm
- Chrome molybdenum



	kg
118.0150 3 pcs Mini straight and shape cutting snip set	800

**Tin snips sheet metal shear, self opening, straight cut**

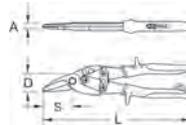
- Straight cut
- Self opening handle
- Serrated blades
- Internal spring
- Easy locking action
- Includes hanging loop
- Induction hardened precision cutting
- Two component handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	kg
118.0051	1,2 (0,7)	20,0	19,0	250,0	45,0	400

**Tin snips sheet metal shear, self opening, right handed cut**

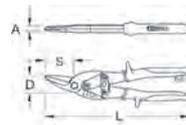
- Right handed cut
- Self opening handle
- Serrated blades
- Internal spring
- Easy locking action
- Includes hanging loop
- Induction hardened precision cutting
- Two component handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	kg
118.0052	1,2 (0,7)	18,0	21,0	240,0	42,0	400

**Tin snips sheet metal shear, self opening, left handed cut**

- Left handed cut
- Self opening handle
- Serrated blades
- Internal spring
- Easy locking action
- Includes hanging loop
- Induction hardened precision cutting
- Two component handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	kg
118.0053	1,2 (0,7)	17,0	26,0	240,0	44,0	400

**Tin snips sheet metal shear set**

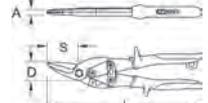
- Self opening handle
- Serrated blades
- Internal spring
- Easy locking action
- Includes hanging loop
- Induction hardened precision cutting
- Two component handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



	kg
118.0050 3 pcs Tin snips sheet metal shear set	1.20

**Template cutting shear with lever gearing, right handed cut**

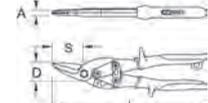
- Right handed cut
- Self opening handle
- Serrated blades
- With internal spring
- With easy locking action
- Includes hanging loop
- Induction hardened precision cutting
- With two component handle
- Cuts steel sheet up to 1.5 mm, stainless steel up to 1.0 mm
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	kg
118.0045 right	1,5 (1,0)	30,0	50,0	260,0	40,0	380

**Template cutting shear with lever gearing, left handed cut**

- Left handed cut
- Self opening handle
- Serrated blades
- With internal spring
- With easy locking action
- Includes hanging loop
- Induction hardened precision cutting
- With two component handle
- Cuts steel sheet up to 1.5 mm, stainless steel up to 1.0 mm
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	kg
118.0046 left	1,5 (1,0)	30,0	50,0	260,0	40,0	380

**Manual guillotine shears**

- Ideal for all straight and round cuts
- Cuts practically all materials up to 1.5 mm
- Easy cutting of external and internal radii, contours, curves, angles, etc.
- No deformation of the material
- Simple cutting of long, straight work pieces
- approx. 190 mm cutting lengths
- Self-sharpening due to special blade, no regrinding necessary
- Includes a mount for a workbench

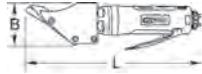
**Application range:** Steel, copper, aluminium, brass, stainless steel, etc.



	Cutting width mm	max. material strength mm	kg
118.0144	250,0	1,5	4,50

### Pneumatic sheet metal shear

- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Ideal for the cutting of car body sheet metal and aluminium sheet
- Eccentric cutting drive
- For curved cutting up to 100 mm radius
- With stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



#### Technical data:

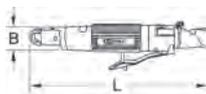
Cutting speed:	2,6 m/min
Cutting output:	steel 1,2 mm Aluminium 1,6 mm
Cutting width:	5,0 mm
Vibration:	< 9,1 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	82 dbA
Air consumption:	85 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm		
515.3055	59.0	250.0	515.3055-40	1.25

### PANEL SAWS

#### SlimPOWER mini-pneumatic reciprocating bodywork key hole saw

- Air exhaust through the used air tube to the rear
- For one handed operation
- For works in car body panels, beams and profile
- Secure operation lever with locking device
- Suitable for small sawing radius
- Stepless speed regulation
- Vibration dampened
- Includes 1/4" coupling connector
- Robust metal housing



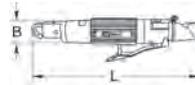
#### Technical data:

Stroke:	7.9 mm
Cutting strokes:	5760 strokes/min
Capacity:	190 Watt
Vibration:	< 16,4 ms <sup>2</sup>
Noise pressure level:	92 dbA
Noise performance level:	81.0 dbA
Air consumption:	240.66 l/min
Operating pressure:	max. 5,5 bar (80 psi)
Min. tube diameter:	4,8 mm
Connection thread:	1/4"

	B mm	L mm		
515.5045	36.0	170.0	129.3740-46	500

### Pneumatic reciprocating bodywork saw, low vibration

- Air exhaust through the used air tube to the rear
- For one handed operation with ergonomic design
- For works in car body panels, beams and profile
- Secure operation lever with locking device
- Suitable for small sawing radius
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Robust metal housing



#### Technical data:

Stroke:	10.0 mm
Cutting strokes:	5760 strokes/min
Vibration:	< 9,1 ms <sup>2</sup>
Noise pressure level:	69.2 dbA
Noise performance level:	81.0 dbA
Air consumption:	196 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm		
515.3000	45.0	790.0	129.3740-46	800

### Jigsaw blades

- Flexible and shatter proof
- Suitable for:
- Non ferrous metal and stainless steel
- Steel sheet and car body panels
- Compression moulded material and formica

Suitable for: Ober, KS, Pneutek, CP, KS 515.3000 und 515.3200



	No. teeth	TPI	D mm	L mm	Content	
129.3740	80	32	1,0	100,0	5 30	
129.3742	60	24	1,0	100,0	5 30	
129.3744	45	18	1,0	100,0	5 30	
129.3746	35	14	2,0	100,0	5 30	

### Jigsaw blades

- Flexible and shatter proof
- Suitable for:
- Non ferrous metal and stainless steel
- Steel sheet and car body panels
- Compression moulded material and formica

Suitable for: SIG und Flex



	No. teeth	TPI	D mm	L mm	Content	
129.3750	80	32	0,7	100,0	5 20	
129.3752	60	24	1,0	100,0	5 20	
129.3754	45	18	1,4	100,0	5 20	
129.3756	35	14	1,8	100,0	5 20	

### LOCKING PLIERS

#### Mini welding clamp set

- Ideal for preparing bodywork welding work
- Adjustable clamping range for various panel thicknesses
- Can be used in the narrowest of spaces, e.g. wheel arches, window apertures, engine compartment, etc.
- With tiltable clamp jaws
- Contact pressure adjustable via wing nut
- Span width 0 – 7 mm
- Allows for precise adjusting and positioning



115.1105	4 pcs	Mini welding clamp set	315

#### consists of:

	X		
115.1106	4	Mini welding clamp	78

### Micro grip pliers

- Ideal for confined areas
- Straight linear design of the movable jaw
- With brass screw for fine adjustment
- With loosening lever
- One hand operation
- Aluminium alloy



	Length mm	
115.1026	92.0	120

### Locking pliers holder

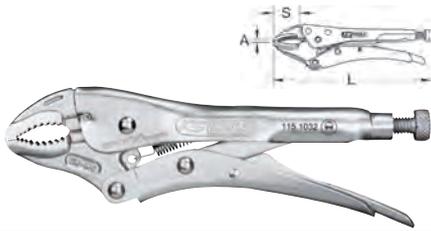
- Alternative for a vice
- For light work
- For screwing onto workbenches, worktables etc.



	L mm	B mm	T mm	
115.2072	91.0	84.0	24.3	300

**Locking pliers**

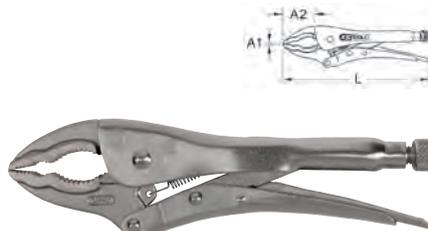
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome vanadium



	A mm	L mm	S mm	⚖
115.1031	0-50	125.0	19,3	180
115.1032	0-55	175.0	24,0	340
115.1033	0-60	250.0	27,5	520

**Wide jaw locking pliers**

- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	⚖
115.1506	0-64	250.0	50,0	600

**Locking pliers with quick-release lever, straight jaws**

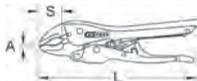
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With easy locking action
- For round and flat material
- To hold when welding
- With quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum
- With dual component handle



	A mm	L mm	S mm	⚖
115.3011	0-40	175.0	25,0	400
115.3012	0-50	250.0	30,0	600

**Power locking pliers**

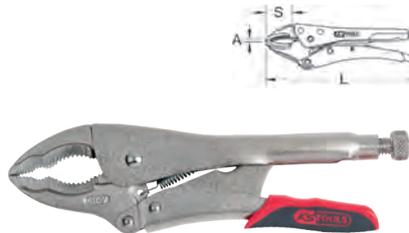
- Forged gripping jaws
- Prevents slipping even at high forces
- Well thought through jaw teeth
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome vanadium



	A mm	L mm	S mm	⚖
115.1196	0-40	175.0	30,0	400
115.1197	0-50	250.0	37,0	600

**Wide jaw locking pliers with quick-release lever**

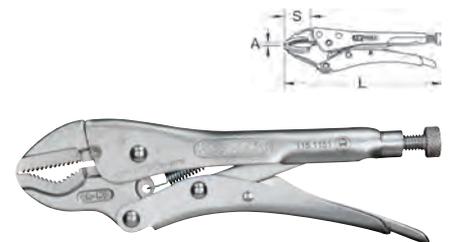
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With easy locking action
- For round and flat material
- To hold when welding
- With quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum
- With dual component handle



	A mm	L mm	S mm	⚖
115.2006	0-65	250.0	51,0	620

**Locking pliers, V jaws**

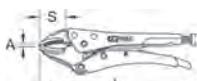
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	⚖
115.1151	0-25	185.0	24,0	400
115.1152	0-32	225.0	27,5	600

**Locking pliers with quick-release lever**

- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With easy locking action
- For round and flat material
- To hold when welding
- With quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum
- With dual component handle



	A mm	L mm	S mm	⚖
115.2031	0-30	125.0	21,0	300
115.2032	0-40	175.0	27,0	390
115.2033	0-55	250.0	30,0	600

**Locking pliers, straight jaws**

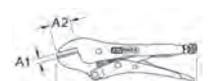
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	⚖
115.1501	0-28,5	175.0	27,0	370
115.1502	0-45,5	250.0	30,0	600

**Clamping pliers for pipes**

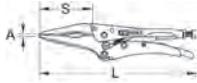
- Forged gripping jaws
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- With hexagonal nut for safe fastening
- For clamping pipes
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	⚖
115.1504	0-30,5	175.0	29,5	360

### Clamping pliers for pipes

- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For clamping pipes
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	
115.1505	0-86	280.0	118,0	500

### 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



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

### Chain grip pliers

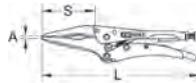
- For fastening and clamping of different profiles
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- Ideal for confined spaces
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	Ø mm	L mm	Replacement chain	
115.1171	150,0	220,0	115.1172	755

### Long nose locking pliers

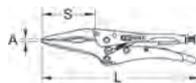
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	
115.1177	0-25	125.0	35	110
115.1034	0-35	150.0	45,0	180
115.1035	0-45	225.0	65,0	340

### Long-nose locking pliers with quick-release lever

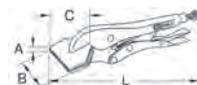
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With easy locking action
- For round and flat material
- To hold when welding
- With quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum
- With dual component handle



	A mm	L mm	S mm	
115.2034	0-45	225.0	45,0	300
115.2035	0-60	150.0	53,0	500

### Wide and flat jaw locking pliers

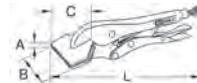
- Forged gripping jaws
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For clamping of flat or bended metal sheets
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	B mm	C mm	L mm	
115.1076	0-53	90,0	40,0	205,0	480
115.1077	0-57	100,0	45,0	245,0	650

### Wide jaw flat die locking pliers with quick-release lever

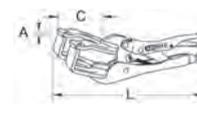
- Forged gripping jaws
- With easy locking action
- Size adjustment using the adjustment wheel
- For clamping of flat or bended metal sheets
- With quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum
- With dual component handle



	A mm	C mm	L mm	B mm	
115.2076	0-40	45,0	205,0	80,0	600
115.2077	0-55	45,0	250,0	80,0	800

### Welding gripping pliers

- With malleable cast iron jaws
- Suitable for setting the welding points between the cut outs
- With loosening lever
- Size adjustment using the adjustment wheel
- To hold and adjust sheets and profiles
- With easy locking action
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	C mm	L mm	
115.1078	0-45	70,0	220,0	600
115.1079	0-55	70,0	280,0	780

### Welding gripping pliers with quick-release lever

- With malleable cast iron jaws
- Suitable for setting the welding points between the cut outs
- Size adjustment using the adjustment wheel
- To hold and adjust sheets and profiles
- With easy locking action
- With quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome vanadium
- With dual component handle



	A mm	C mm	L mm	
115.2078	0-45	70,0	270,0	710
115.2079	0-65	70,0	230,0	875

**Welding gripping pliers**

- Forged semi-circular gripping jaws
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	B mm	L mm	kg
115.1070	0-35	40.0	170.0	240

**Welding gripping pliers, extra long**

- Round forged gripping jaws
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Large clamping depth for front and rear panels
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	B mm	L mm	kg
115.0573	0-295	415.0	610.0	1.52

**Welding gripping pliers with movable clamping jaws**

- Flat gripping jaws
- Movable clamping jaws
- With quick-release lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum
- With dual component handle



	A mm	B mm	L mm	kg
115.2013	0-105	115.0	275.0	0.41
115.2014	0-420	395.0	275.0	1.54

**Welding gripping pliers, extra long**

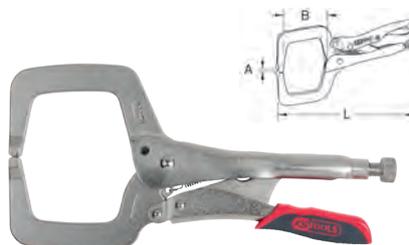
- Round forged gripping jaws
- Quick-release lever
- Easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Large clamping depth for front and rear panels
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	B mm	L mm	kg
115.1072	0-27	250.0	450.0	1.18

**Welding clamp gripping pliers with quick-release lever**

- Very good clamping capacity
- Round forged gripping jaws
- With quick-release lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome vanadium
- With dual component handle



	A mm	B mm	L mm	kg
115.2008	0-45	45.0	275.0	300
115.2009	0-90	85.0	150.0	900

**Welding gripping pliers**

- For applications that need a straight jaw
- Jaws from special steel
- Easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- Ideal for spot welding
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	kg
115.1080	0-20	56.0	205.0	548

**Welding gripping pliers**

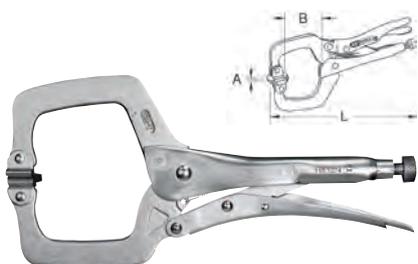
- Very good clamping capacity
- Round forged gripping jaws
- Quick-release lever
- Easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	B mm	L mm	kg
115.1071	0-100	90.0	285.0	780

**Welding gripping pliers with movable clamping jaws**

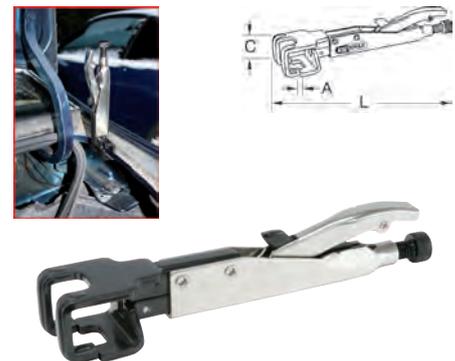
- Flat gripping jaws
- Movable clamping jaws
- Quick-release lever
- Easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	B mm	L mm	kg
115.1178	0-25	25.0	125.0	0.15
115.1073	0-35	40.0	170.0	0.24
115.1074	0-100	70.0	285.0	0.78
115.1075	0-270	240.0	450.0	1.25
115.0570	0-420	395.0	610.0	1.54

**Welding gripping pliers**

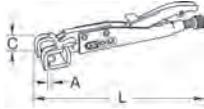
- For applications that required double curved jaws
- Jaws from special steel
- Easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- Ideal for fitting and mounting of body parts
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	kg
115.1081	0-20	39.0	230.0	568

### Welding gripping pliers

- For applications that required double curved jaws
- Jaws from special steel
- Easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- For welding of the hole between the panels
- Also suitable for U-profile
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1082	0-15	26.0	215.0	562

### Welding gripping pliers

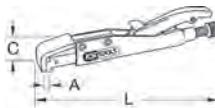
- For applications that need a angled jaw
- Jaws from special steel
- Easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- Ideal for welding in the fold
- Also suitable for U-profile
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1083	0-20	30.0	210.0	509

### Welding gripping pliers

- For applications that need a straight jaw
- Slim design
- Jaws from special steel
- Easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- For right-angled terminals in the fold
- For difficult to access areas
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1084	0-16	30.0	210.0	488

### Welding gripping pliers set

- For applications that need a straight jaw
- Extra slim design
- Jaws from special steel
- With easy locking action
- With quick release lever
- Size adjustment using the adjustment wheel
- For right angled terminals in the fold
- For difficult to access areas
- For welding of the hole between the panels
- Also suitable for U profile
- Ideal for spot welding
- Nickel plated handle
- Chrome molybdenum



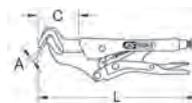
		g
115.1085	5 pcs Welding gripping pliers set	2.60

consists of:

		g
115.1080	Welding gripping plier, 205mm	548
115.1081	Welding gripping plier, 230mm	568
115.1082	Welding gripping plier, 215mm	562
115.1083	Welding gripping plier, 210mm	509
115.1084	Welding gripping plier, 210mm	488

### Automotive welding gripping pliers

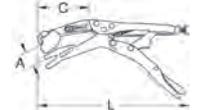
- Forged gripping jaws
- Serrated execution
- Quick-release lever
- Easy locking action
- For flanged material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1088	0-40	60.0	200.0	400

### Welding gripping pliers

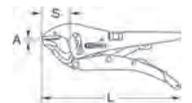
- Flat gripping jaws
- Movable clamping jaws
- Serrated execution
- No sticking to the electrode
- Quick-release lever
- Easy locking action
- Good adaptation to existing surfaces
- Copper alloy clamping jaws
- No flaring under the strongest loads
- Loosening under continuous pressure of a spring
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1180	0-70	85.0	240.0	500

### Locking pliers, serrated

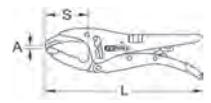
- Forged gripping jaws
- Serrated execution
- Quick release lever
- Size adjustment using the adjustment wheel
- For round and flat material
- To hold when welding
- Nickel plated
- Chrome vanadium



	A mm	L mm	S mm	g
115.1036	0-55	250.0	40.0	670

### Locking pliers, serrated

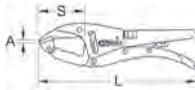
- Forged gripping jaws
- Serrated execution
- Quick release lever
- Size adjustment using the adjustment wheel
- For round and flat material
- To hold when welding
- Nickel plated
- Chrome vanadium



	A mm	L mm	S mm	g
115.1037	0-85	250.0	60.0	800

**Locking pliers, serrated**

- Forged gripping jaws
- Movable clamping jaws
- Serrated execution
- Quick-release lever
- Size adjustment using the adjustment wheel
- For round and flat material
- To hold when welding
- Nickel plated
- Chrome vanadium



	A mm	L mm	S mm	g
115.1038	0-85	250.0	60,0	800

**Automatic locking pliers**

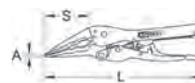
- Forged gripping jaws
- Automatic adjustment by cam mechanism
- Serrated execution
- Quick-release lever
- For round and flat material
- Heavy but controlled clamping
- To hold when welding
- Knurled handle
- Nickel plated
- Chrome vanadium



	A mm	L mm	S mm	g
115.1150	0-32	125.0	22,0	250
115.1155	0-47	250.0	29,0	620

**Automatic long nosed locking pliers**

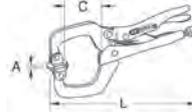
- Forged gripping jaws
- Automatic adjustment by cam mechanism
- Serrated execution
- Quick-release lever
- Heavy but controlled clamping
- For round and flat material
- To hold when welding
- Knurled handle
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	g
115.1160	0-51	175.0	55,0	260

**Automatic gripping pliers**

- Flat gripping jaws
- Movable clamping jaws
- Automatic adjustment by cam mechanism
- Quick-release lever
- Heavy but controlled clamping
- For round and flat material
- For profiled bulky components
- Good adaptation to existing surfaces
- Knurled handle
- Nickel plated
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1165	0-68	55.0	175.0	330
115.1170	0-90	90.0	275.0	860

**BLIND RIVET TOOLS**

**Plastic rivet pliers set included rivets**

- Suitable for plastic rivets
- Narrow head pliers
- Can be used in hard to access areas
- 90° angled rivet head
- With rubber grip
- Includes 40 plastic rivets
- Die-cast metal body

Plastic rivets: 5.0x15.8 - 5.0x17.2 - 6.3x25.2 - 6.6x17.2 mm



		g
150.9650	41 pcs Plastic rivet pliers set included rivets	760

consists of:

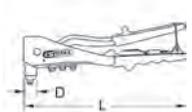
		g
150.9651	Plastic rivet pliers	580
150.9652	Replacement rivets Pack of 10, 17,2 x 6,6 mm	20
150.9653	Replacement rivets Pack of 10, 25,2 x 6,3 mm	22
150.9654	Replacement rivets Pack of 10, 17,2 x 5 mm	15
150.9655	Replacement rivets Pack of 10, 15,8 x 5 mm	16



**Standard hand riveting tool**

- Suitable for blind rivets
- Including four interchangeable mouthpieces
- Magazine and key in the riveter body
- Narrow head pliers
- With safety lock on the handle end
- With rubber grip
- Die-cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 mm



	D mm	L mm	g
150.9510	21.0	270.0	920

**Standard hand riveting tool set**

- Suitable for blind rivets
- Four interchangeable mouthpieces
- Magazine and key in the riveter body
- Includes 200 blind rivets
- With rubber grip
- Die-cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 mm

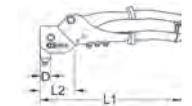


		g
150.9520	205 pcs Standard hand riveting tool set	1.25

**Hand rivet tool**

- Suitable for blind rivets
- 360° rotating head
- For difficult to access areas
- Narrow head pliers
- With safety lock on the handle end
- Including four interchangeable mouthpieces
- Die-cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 mm



	D mm	L1 mm	L2 mm	g
150.9540	21.0	290.0	70.0	751

### Universal hand rivet tool with swivel head

- Suitable for blind rivets and blind rivet nuts
- 360° rotating head
- For hard-to-reach places
- Four interchangeable mouthpieces and nut rivet pulling inserts
- Die-cast metal body

Blind rivets: 2.4mm-3.2mm-4.0mm-4.8 mm  
Rivet nuts: M3-M4-M5-M6



	L mm	kg
150.9619	290.0	500

### Universal hand riveting tool set

- Suitable for blind rivets and blind rivet nuts
- 360° rotating head
- For difficult to access areas
- Four interchangeable mouthpieces and nut rivet pulling inserts
- Die-cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 mm  
Rivet nuts: M3 - M4 - M5 - M6



	kg
150.9610 10 pcs Universal hand riveting tool set	1.96

consists of:

	kg
150.9570 Mouthpieces for riveting, 2.4 mm	10
150.9571 Mouthpieces for riveting, 3.2 mm	10
150.9572 Mouthpieces for riveting, 4.0 mm	10
150.9573 Mouthpieces for riveting, 4.8 mm	10
150.9613 Rivet nut pulling spindle for riveting tools, M3	30
150.9614 Rivet nut pulling spindle for riveting tools, M4	30
150.9615 Rivet nut pulling spindle for riveting tools, M5	30
150.9616 Rivet nut pulling spindle for riveting tools, M6	30
150.9619 Hand rivet tool 360° rotating head	500
150.9620 Rivet head for 150.9610	160

### Long arm hand riveting tool

- Suitable for blind rivets
- Including four interchangeable mouthpieces
- Extra long lever arms
- High power transmission
- Magazine and key in the riveter body
- With rubber grip
- Die-cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 mm



	D mm	L1 mm	L2 mm	kg
150.9530	21.0	410.0	59.0	1.50

### Long-arm hand riveter set for thread sleeves

- Suitable for thread sleeves
- Including four interchangeable mandrels and mouthpieces
- Extra-long lever arms
- High power transmission
- Suitable for aluminium, steel, and stainless steel sleeves
- With rubber grip
- Die-cast metal body

Application range: for 5.0-6.0-8.0-10.0 mm thread sleeves



	kg
150.9660 10 pcs Long-arm hand riveter set for thread sleeves	1.60

consists of:

	kg
150.9661 Long arm hand riveting tool	1290
150.9662 Threaded mandrel, M5	35
150.9663 Mouthpiece, M5	32
150.9664 Threaded mandrel, M6	36
150.9665 Mouthpiece, M6	34
150.9666 Thread arbour, M8	42
150.9667 Mouthpiece, M8	33
150.9668 Thread arbour, M10	32
150.9669 Mouthpiece, M10	32
150.9670 Wrench 10 mm for threaded mandrel	12

### Universal riveting tool

- Suitable for blind rivets and blind rivet nuts
- Retractable legs for increased power consumption
- Mouthpiece magazine intergrated in the handle
- With two component handle
- Die cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 - 6,4 mm



	D mm	L1 mm	L2 mm	kg
150.9633	30.0	510.0	45.0	1.60

### Universal riveting tool set

- Suitable for blind rivets and blind rivet nuts
- Retractable legs for increased power consumption
- Mouthpiece magazine intergrated in the handle
- With two component handle
- Die-cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 - 6,4 mm  
Rivet nuts: M4 - M5 - M6 - M8 - M10



	kg
150.9630 11 pcs Universal riveting tool set	2.67

consists of:

	kg
150.9633 Universal riveter, 510 mm	1600
150.9632 Replacement rivet head for rivet tools, for 150.9630	40
150.9634 Rivet nut pulling spindle for riveting tools, M4	40
150.9635 Rivet nut pulling spindle for riveting tools, M5	40
150.9636 Rivet nut pulling spindle for riveting tools, M6	40
150.9638 Rivet nut pulling spindle for riveting tools, M8	70
150.9640 Rivet nut pulling spindle for riveting tools, M10	70
150.9642 Combination spanner 8.5 + 5.5 mm, for 150.9630	15
150.9643 Combination spanner 17 + 12 mm, for 150.9630	29
150.9644 Combination spanner 19 + 15 mm, for 150.9630	35
151.2026 Internal hexagon angled pin wrench, short, 6 mm	30

accessories:

	kg
150.9570 Rivet holders for riveting tool small and large, 2.4 mm	10
150.9571 Mouthpieces for riveting, 3.2 mm	10
150.9572 Mouthpieces for riveting, 4.0 mm	10
150.9573 Mouthpieces for riveting, 4.8 mm	10
150.9574 Mouthpieces for riveting, 5 mm	10
150.9575 Mouthpieces for riveting, 6.4 mm	10
150.9578 Replacement jaw grips suitable for rivet head, suitable for 150.9610	10
150.9579 Replacement gripping jaws for rivet head, for 150.9630	10
150.9620 Cavity wall fixing rivet head, for 150.9610	160
150.9613 Rivet nut pulling spindle for small rivet tool, M3, suitable for 150.9610	30
150.9614 Rivet nut pulling spindle for riveting tools, M4	30
150.9615 Rivet nut pulling spindle for riveting tools, M5	30
150.9616 Rivet nut pulling spindle for riveting tools, M6	30
150.9634 Rivet nut pulling spindle for riveting tools, M4	40
150.9635 Rivet nut pulling spindle for riveting tools, M5	40
150.9636 Rivet nut pulling spindle for riveting tools, M6	40
150.9638 Rivet nut pulling spindle for riveting tools, M8	70
150.9640 Rivet nut pulling spindle for riveting tools, M10	70
150.9611 Spare rivet heads, suitable for 150.9610	60
150.9631 Replacement rivet heads for rivet tools, for 150.9630	100
150.9632 Replacement rivet heads for rivet tools, for 150.9630	40

### Pneumatic riveting tool pistol

- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For pop rivet working
- With swivel joint at the coupling connector for flexible use
- Cold insulated
- Includes 1/4" coupling connector
- Robust aluminium housing



Technical data:

Rivet sizes:	2,4 - 3,2 - 4,0 - 4,8 mm
Stroke length:	14 mm
Driving power:	8677,5 N
Vibration:	< 2,5 ms <sup>2</sup>
Noise performance level:	98.6 dbA
Noise pressure level:	85 dbA
Air consumption:	1 l/Hub
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3102	195.0	290.0	1.50

**Pneumatic riveting tool pistol**

- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For professional riveting, continuous operation
- For steel, aluminium, stainless steel or copper riveting up to 6,4 mm
- With 6 mouth pieces, 4,8 mm is pre assembled
- Especially low noise level
- Swivel joint at the connection thread for flexible use
- Cold insulated
- Includes 1/4" coupling connector
- Robust aluminium housing



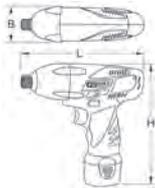
**Technical data:**

Rivet sizes:	3,2 - 4,0 - 4,8 - 6,4 mm
Stroke length:	19 mm
Driving power:	13839,5 N
Vibration:	< 2,5 ms <sup>2</sup>
Noise performance level:	85 dbA
Noise pressure level:	73,3 dbA
Air consumption:	1,8 l/Hub
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	
515.3101	210.0	340.0	2.00

**Cordless riveting tool pistol**

- Handy and ergonomic dual component housing
- Universal use for aluminium and steel rivets Ø 2.4/3.2/4.0/4.8 mm
- Approx. 220 rivets per battery
- With practical clockwise and anticlockwise reversing function
- Very short setup time
- Fast change of rivets
- Short processing time
- Stepless controllable motor speed through electronic switch
- 40% extended lifespan due to changeable special carbon brush conductors
- With lithium-ion high performance rechargeable battery
- Includes automatic turn off charging station
- Fast charging function (1 hour)
- Blow mould plastic housing
- In durable plastic storage case



**Technical data:**

Rivet sizes:	2,4 / 3,2 / 4,0 / 4,8 mm
Stroke length:	15 mm
Vibration:	3,2 ms <sup>2</sup>
Noise performance level:	86,9 dbA
Noise pressure level:	75,9 dbA
Driving power:	4.900
Capacity:	10,8 V
Rechargeable battery:	10,8 V - 1,5 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger		
515.4104	235.0	55.0	200.0	515.3595	515.3592	0	0	1.15
515.4105	235.0	55.0	200.0	515.3595	515.3592	1	1	2.69
515.4106	235.0	55.0	200.0	515.3595	515.3592	2	1	3.07

**Blind rivets assortment**

- Breakable pin made from steel
- In plastic storage case



970.0150	400 pcs Blind rivets assortment	250
100 x	2,4 mm	
100 x	3,2 mm	
100 x	4,0 mm	
100 x	4,8 mm	

**Threaded rivets assortment, aluminium**

- Aluminium threaded rivets
- In durable plastic storage case



970.0620	150 pcs Threaded rivets assortment, aluminium	220
25 x	M3 x 9 mm	
25 x	M4 x 11 mm	
25 x	M5 x 13 mm	
25 x	M6 x 15 mm	
25 x	M8 x 18 mm	
25 x	M10 x 21 mm	



**Threaded rivets assortment, steel**

- Steel threaded rivets
- In durable plastic storage case



970.0610	150 pcs Threaded rivets assortment, steel	460
25 x	M3 x 9 mm	
25 x	M4 x 11 mm	
25 x	M5 x 13 mm	
25 x	M6 x 15 mm	
25 x	M8 x 18 mm	
25 x	M10 x 21 mm	

**Threaded rivets assortment, steel + aluminium**

- Steel/aluminium threaded rivets
- In durable plastic storage case



970.0630	300 pcs Threaded rivets assortment, steel + aluminium	0.96
25 x	M3 x 9 mm	
25 x	M4 x 11 mm	
25 x	M5 x 13 mm	
25 x	M6 x 15 mm	
25 x	M8 x 18 mm	
25 x	M10 x 21 mm	
25 x	M3 x 9 mm	
25 x	M4 x 11 mm	
25 x	M5 x 13 mm	
25 x	M6 x 15 mm	
25 x	M8 x 18 mm	
25 x	M10 x 21 mm	

## WELDING

### Electronic surge protection

- Constantly suppresses emerging voltage peaks to safe levels and therefore protects the vehicle power supply against overvoltages
- Prevents damage to the on-board electronics when charging the built-in battery or even during welding work
- Maximum load 200 A (8/20 μs)
- With fuse protection
- Visibility and tone signal in the event of voltages peaks
- With reverse polarity protection
- The connection to the battery takes place via two plastic-coated crocodile pole clamps
- Sturdy workshop design



		Cable length mm	
150.3080	12 V	195	480
150.3045	12/24V	195	480

### Welders protective helmet

- Turns fully automatically from bright after dark as soon as the light arch is ignited
- Due to high quality solar cells battery replacement is no longer require
- Equipped with a sensitivity and delaying switch for switching between dark and light to prevent welders blindness when welding at high amp capacity
- Quick switching is possible when changing from seam to spot welding
- Selection switch for reaction time
- Robust multi positional head band
- Complete neck protection
- Face protection to EN 175 / eye protection to EN379 1/2/1



#### Technical data:

Switching timed:	1/25,000 s
	0.6 s delay
Window:	98 x 40 mm (3.7/8" x 1.5/8")
Cassette size:	110 x 90 x 9 mm (4.3/8" x 3.1/2" x 0.35")
Power requirement:	litium battery + solar cells
UV / IR protection:	according to EN169 / to DIN 16
Colour selection:	variable adjustment from DIN 9-13 standard light adjustment DIN 3 (4)
Working temperature:	-5° to +55°C
Storage temperature:	-20° up tp +70°C

	L mm	B mm	H mm	
310.0180	330.0	200.0	200.0	830

### Welding apron

- Made from leather
- Adjustable in length
- Size of the waist adjustable
- Breast pocket



		L mm	
985.7019	L	910.0	775
985.7020	XL	1080.0	775

### Leather sleeves

- Dark brown
- Made from leather
- Ends with elastic band



	L mm	Content	
985.7021	400.0	2	320

### Leather sleeves

- Light brown
- Made from leather
- Ends with elastic band



	L mm	Content	
985.7022	400.0	2	335

### Welding coat

- Double leather closure, front
- With hook and loop fastener
- Adjustable cuffs
- Lined collar and with hook and loop fastener for additional protection
- Inner pocket



985.7000	L	1.80
985.7001	XL	1.80
985.7002	XXL	1.82
985.7003	XXXL	1.82

### Welding leather gloves

- Made from leather
- Good, comfortable wear
- Can be used for applications with heat
- With open sleeves



	Size mm	
985.7034	M	365
985.7035	L	365
985.7036	XL	365
985.7037	XXL	365

### Welding leather gloves, long

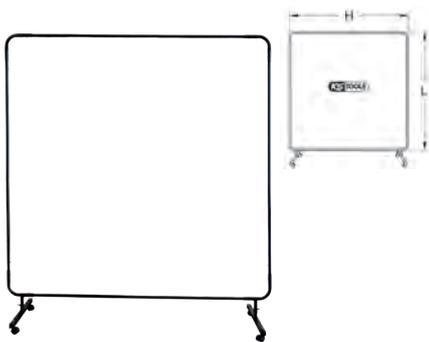
- Made from leather
- Extra long
- Good, comfortable wear
- Can be used for applications with heat
- With open sleeves



	Size mm	
985.7038	M	495
985.7039	L	495
985.7040	XL	495
985.7041	XXL	495

**Frame for welding protection screen**

- Very stable frame made from steel tubing
- With direct rolls
- With 360° swivel joint



	L mm	H mm	kg
985.7026	1780.0	1780.0	4.50

**Welding protection awning**

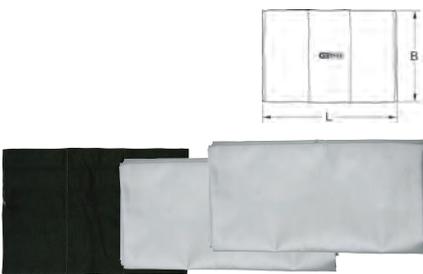
- Resistant against UV rays, flames and wear
- Edges with eyelets at 30cm intervals
- Without frame



	Colour code	L mm	H mm	kg
985.7027	●	1740.0	1740.0	1.72
985.7028	●	1740.0	1740.0	1.72
985.7029	●	1740.0	1740.0	1.72

**Flame proof mats**

- Asbestos free
- Reduced fire risk
- Very flexible
- Good formability

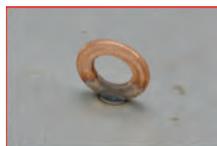


	B mm	L mm	max. °C	kg
610.3350	330.0	500.0	700	330
610.3351	460.0	800.0	700	650
610.3399	1500.0	2000.0	600	2110

**Super spotter - Welding gun 220V - 50/60 Hz**

- Handy workshop tool
- For the repair of bodywork damage
- For hammering out body panels
- Plastic housing

**Technical data:**  
Attention idle cut-out: 200 Ampere  
Attention light cut-out: 200 Ampere



	Length mm	kg
500.8551	285.0	5.46

**Slide hammer puller 1.5 kg**

- For problem free hammering out of car bodywork panels
- With 1.5 kg slide weight
- Usable in connection with the super spotter
- Special steel



	Length mm	Height mm	Replacement span head	kg
500.8559	475.0	80.0	500.8561	2.08

**Super spotter - Welding gun set**

- Handy workshop tool
- For the repair of bodywork damage
- For hammering out body panels
- By means of special electrodes nails or washers are welded on the sheet metal so the dents can be removed with an impact hammer using accurate blows
- With a heat electrode placed hot points can be set on the sheet metal
- Also contains an electrode for welding copper-plated dome head screws for the reinforcement of housings, parts, etc. directly on the bodywork
- In durable plastic storage case

**Technical data:**  
Attention idle cut-out: 200 Ampere  
Attention light cut-out: 200 Ampere



	kg
500.8550	10.39

consists of:

		kg
500.8551	Welding gun 220V, 50/60 Hz	5460
500.8554	Electrode for welding nails, Copper	10
500.8556	Electrode for rivets, magnetic, Copper	10
500.8557	Electrode for washers, Brass	10
500.8558	Heating electrode for hot spots, Brass	10
500.8559	Slide hammer puller 1,5 kg	2080
500.8560	Electrode extension, brass	10
500.8571	Spotter-consumables, welding nails copper coated, 2,0 x 50 mm, pcs 500	660
500.8572	Spotter consumables, copper plated, welding nails, 2,5 x 50 mm, pcs 100	210
500.8574	Spotter-consumables, 3 x 3.2 mm, pcs 100	30
500.8579	Spotter-consumables, screws copper coated, M 4 x 16 mm, pcs 100	140
500.8592	Washers 8.0 x 16.0 mm copper coated pcs 100	160

**Super spotter additional kit**

- For removing of car body damage
- Includes the adaptor for the slide hammer puller
- The flexible and strong steel wire profile is used so the processing of securing car body panels
- The movable pull hooks situated can be pulled by the claw fastener straightening the car body and/or the bump on
- It can be hooked on 1-9 pull hooks, at what point exact or extensive enabling the removal of dents



		kg
500.8530	15 pcs Super spotter additional kit	1.04

consists of:

		kg
500.8531	Welding-Electrode for corrugated wire for Spotter 500.8550	23
500.8532	Corrugated wire Ø 2 mm x L=310 mm 10 pcs.	122
500.8533	Corrugated wire positioner magnetic	34
500.8534	Multi hook head with 6 claw connection IG M14x 1.5	315
500.8536	System adaptor for slide hammer puller IG M14x1.5, for use with 500.8559	86
500.8572	Spotter consumables, copper plated, welding nails, 2,5 x 50 mm, pcs 100	210

**Super spotter electrodes**

- Usable in connection with the super spotter
- Copper and/or brass



		kg
500.8554	Electrode for welding nails, Copper	10
500.8556	Electrode for rivets, magnetic, Copper	10
500.8562	Electrode for screws, Copper	20
500.8557	Electrode for washers, Brass	10
500.8558	Heating electrode for hot spots, Brass	10
500.8560	Electrode extension, brass	10

### Super spotter consumables

- Usable in connection with the super spotter
- For the reinforcement of the car body
- Copper coated



500.8570	Welding nail, 100pcs, 2x50mm	140
500.8571	Welding nail, 500pcs, 2x50mm	660
500.8572	Welding nail, 100pcs, 2.5x50mm	210
500.8573	Welding nail, 500pcs, 2.5x50mm	1150
500.8592	Washer, 100pcs, 8x16mm	160
500.8595	Triangular-washer 2.5 x 50.0 mm copper coated 100pcs	500
500.8574	Rivet, 100pcs, 3x3.2mm	30
500.8575	Rivet, 100pcs, 3x4.5mm	40
500.8576	Rivet, 100pcs, 5x8.2mm	40
500.8579	Screw, 100pcs, M4x16mm	140

### SURFACE TREATMENT

#### Magnet protector set

- Suitable for protecting door edges and trims
- Ideal for polishing, painting and grinding
- Flexible use thanks to flexible magnetic film
- Surface made from rugged special plastic
- Easy to use



903.1040	2 pcs Magnet protector set	131

#### consists of:

903.1041	Magnet protector, small, 120 mm	51
903.1042	Magnet protector, large, 150 mm	80

### Pneumatic sand blaster

- Ideal for specific working
- With integrated storage tank 600 cm<sup>3</sup>
- Suitable for blasting material grain size 46-100
- Suitable for quartz sand, glass beads, plastic granulate, aluminium oxide, standard corundum and glass granulate
- Supply for blasting material can be switched off and therefore also be used as normal pneumatic guns
- ABS tank
- Robust steel handle
- Steel nozzle, maintenance-free

**Application range:** Paint stripping, paint removal, rust removal, cleaning, surface cleaning



**Technical data:**  
 Operating pressure: max. 6.3 bar (90 psi)  
 Air consumption: 200 l/min  
 Min. tube diameter: 3/8" - 10 mm  
 Connection thread: 1/4"NPT

	Length mm	Height mm	Ø mm	
515.1909	260.0	280.0	5,0	1.30

### Pneumatic pencil grinder, 70.000 rpm

- Straight design
- Air exhaust through the used air tube
- Ideal for carbide, corundum and tungsten carbide burs
- For working in hard to access areas
- Very handy and compact construction
- Suitable for different repair works
- With stepless speed regulation
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector and chuck wrench
- Aluminium housing

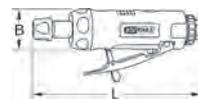


**Technical data:**  
 Tube length: 1 m  
 Tube diameter: 5 mm  
 Chuck capacity: 3 mm  
 Capacity: 150 KW  
 No load current: 70000 r.p.m.  
 Vibration: < 2,5 ms<sup>2</sup>  
 Noise performance level: 86 dbA  
 Noise pressure level: 74 dbA  
 Air consumption: 140 l/min  
 Operating pressure: max. 6,3 bar (90 psi)  
 Min. tube diameter: 1/4" - 6,35 mm  
 Connection thread: 1/4"PT

	D mm	L mm	
515.3198	16.0	132.0	330

### SlimPOWER mini-pneumatic die grinder, straight

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Very handy and compact construction
- Secure operation lever with locking device
- With stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing

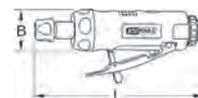


**Technical data:**  
 Chuck: 6 mm  
 Capacity: 230 Watt  
 No load current: 25000 r.p.m.  
 Vibration: < 1,5 ms<sup>2</sup>  
 Noise performance level: 95 dbA  
 Noise pressure level: 81 dbA  
 Air consumption: 319.93 l/min  
 Min. tube diameter: 1/4" - 6,4 mm  
 Operating pressure: max. 5,5 bar (80 psi)  
 Connection thread: 1/4"PT

	B mm	L mm	
515.5030	35.0	123.0	300

### Mini pneumatic die grinder, straight

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Very handy and compact construction
- Secure operation lever with locking device
- With stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing from special plastic

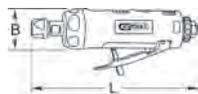


**Technical data:**  
 Chuck: 6 mm  
 Capacity: 250 Watt  
 No load current: 25000 r.p.m.  
 Vibration: < 0,1 ms<sup>2</sup>  
 Noise performance level: 95 dbA  
 Noise pressure level: 82 dbA  
 Air consumption: 85 l/min  
 Operating pressure: max. 6,3 bar (90 psi)  
 Min. tube diameter: 3/8" - 10 mm  
 Connection thread: 1/4"PT

	B mm	L mm	
515.3005	365.0	155.0	920

**Pneumatic die grinder**

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Very handy and compact construction
- Secure operation lever with locking device
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



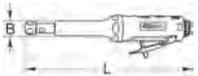
**Technical data:**

Chuck:	6 mm
Capacity:	330 Watt
No load current:	21000 r.p.m.
Vibration:	< 0,1 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	82 dbA
Air consumption:	85 l/min
Operating pressure:	6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3010	44.0	175.0	920

**Long shaft die grinder**

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in deep lying areas
- Secure operation lever with locking device
- With stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



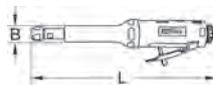
**Technical data:**

Chuck:	6 mm
Capacity:	330 Watt
No load current:	22000 r.p.m.
Vibration:	< 0,1 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	82 dbA
Air consumption:	85 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3015	26.5	280.0	1.08

**Long shaft die grinder set**

- With 25 mini grinding wheels and mounting mandrel
- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grindstone with 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in deep lying areas
- Secure operation lever with locking device
- With stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing from special plastic



**Technical data:**

Chuck:	6 mm
Capacity:	330 Watt
No load current:	22000 r.p.m.
Vibration:	< 0,1 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	82 dbA
Air consumption:	85 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3016	26.5	280.0	1.25

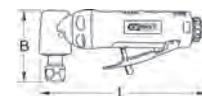
**consists of:**

		kg
515.3015	Long shaft die grinder, 22000 r.p.m.	1.08
337.2005	High performances thin disk, 1mm, pack of 25	0.10
515.3017	Clamping mandrel M6 f. thin cutting disk	0.07



**SlimPOWER mini-pneumatic angled die grinder**

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Secure operation lever with locking device
- With stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing



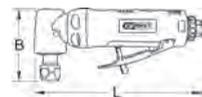
**Technical data:**

Chuck:	6 mm
Capacity:	190 Watt
No load current:	19000 r.p.m.
Vibration:	< 1,5 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	82 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	kg
515.5035	75.0	123.0	300

**SlimPOWER mini-pneumatic angled die grinder**

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Secure operation lever with locking device
- With stepless speed regulation
- Vibration dampened
- Includes 1/4" coupling connector
- Robust housing



**Technical data:**

Chuck:	6 mm
Capacity:	230 Watt
No load current:	20000 r.p.m.
Vibration:	< 1,5 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	83 dbA
Air consumption:	319.93 l/min
Min. tube diameter:	1/4" - 6,4 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"

	B mm	L mm	kg
515.5040	70.0	270.0	700

### Pneumatic angled die grinder

- 90° offset execution
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Secure operation lever with locking device
- With stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing from special plastic
- Grease nipple for maintenance on striking mechanism ensures long life (KS grease gun 980.1070)



#### Technical data:

Angle size:	80 mm
Chuck:	6 mm
Capacity:	330 Watt
No load current:	18000 r.p.m.
Vibration:	< 0,1 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	82 dbA
Air consumption:	85 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	
515.3020	80.0	180.0	920

**Our wide range of tube/sheet drills and taper/deburring countersinkers can be found on pages 509 to 523 of our Hand Tools catalogue.**

### 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 ms <sup>2</sup>
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	Content	
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	Content	
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 ms <sup>2</sup>
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 weiß, 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	Content	
515.5113	46,0	flexible	5	13
515.5112	76,5	flexible	5	20

### Burnishing pads

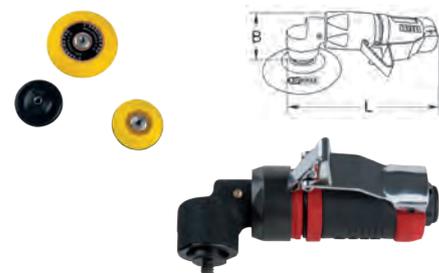
- For burnishing of smooth surfaces



	Ø mm	Material	Colour code	Content	
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

### SlimPOWER mini-pneumatic grinding machine

- 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
- Includes 1/4" coupling connector
- Receiver: External thread
- Robust housing
- Incl. three grinding discs



#### Technical data:

Capacity:	190 Watt
No load current:	16500 r.p.m.
Sponge diameter:	50 + 75 mm
Polishing sponge diameter:	46 mm
Vibration:	< 1,5 ms <sup>2</sup>
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	
515.5100	40.0	120.0	300

**Grinding disc**

- With Velcro receiver
- With internal thread receiver



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

**Grinding pads**

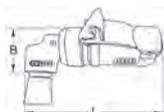
- For polishing rough surfaces made from wood, metal, varnish and natural stone
- For breaking edges



	Ø mm	Grain	Content	
515.5119	50,0	320	10	16
515.5116	75,0	320	10	19
515.5118	50,0	400	10	16
515.5115	75,0	400	10	19
515.5117	50,0	600	10	16
515.5114	75,0	600	10	19

**SlimPOWER mini-pneumatic grinding machine for small pads**

- 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
- For screw in pads with 26.7 mm diameter
- Includes 1/4" coupling connector
- Receiver: Internal thread
- Robust housing



**Technical data:**  
 No load current: 16500 r.p.m.  
 Vibration: < 1,5 ms<sup>2</sup>  
 Noise performance level: 92 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	
515.5070	65,0	120,0	300

**Grinding pads 26.7 mm**

- For polishing rough surfaces made from wood, metal, varnish and natural stone
- For breaking edges
- With external thread receiver



	Material	Ø mm	Grain	Colour code	Content	
515.5071		26,7	60	brown	10	10
515.5072		26,7	80	brown	10	20
515.5073		26,7	150	purple	10	20
515.5074		26,7	300	blue	10	20
515.5075	Strip Rad	26,7		black	10	25

**SlimPOWER mini-pneumatic grinding machine for large pads**

- 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
- For screw in pads with 50.0 mm diameter
- Includes 1/4" coupling connector
- Receiver: Internal thread
- Robust housing



**Technical data:**  
 No load current: 16500 r.p.m.  
 Vibration: < 1,5 ms<sup>2</sup>  
 Noise performance level: 92 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	
515.5080	70,0	120,0	300

**Grinding pads 50.0 mm**

- For polishing rough surfaces made from wood, metal, varnish and natural stone
- For breaking edges
- With external thread receiver



	Material	Ø mm	Grain	Colour code	Content	
515.5081	Scouring wool	50,0		white	10	60
515.5083	Sand paper	50,0	80	brown	10	60
515.5084	Sand paper	50,0	150	purple	10	60
515.5082	Sand paper	50,0	240	brown	10	30
515.5085	Sand paper	50,0	300	blue	10	60
515.5086	Strip Rad	50,0		purple	10	100
515.5087	Strip Rad	50,0		black	10	100

**Belt sander**

- With non slip soft grip handle
- Air exhaust through the handle rear end
- Working head is 360° adjustable
- Adjustable for quick sanding belt change
- Ideal for narrow areas (10 mm belt width)
- Secure operation lever with locking device
- With stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Light aluminium housing



**Technical data:**  
 Belt speed: 1188 m/min  
 No load current: 18000 r.p.m.  
 Vibration: < 2,0 ms<sup>2</sup>  
 Noise performance level: 81 dbA  
 Noise pressure level: 73 dbA  
 Air consumption: 142 l/min  
 Operating pressure: max. 6,3 bar (90 psi)  
 Min. tube diameter: 3/8" - 10 mm  
 Connection thread: 1/4"PT

	L1 mm	L2 mm	
515.3549	150,0	170,0	800

**Sanding belt for belt sander**

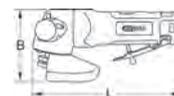
- Sanding belt for belt sander 515.3549



	Grain	Content	
515.3551	80	10	60
515.3552	100	10	80
515.3553	120	10	100

**Pneumatic disc cutter**

- Air exhaust through the handle rear end
- For grinding wheels up to Ø 125 mm x 22 mm
- With safety cover
- For grinding metal sheet and steel
- Secure operation lever with locking device
- With detachable second handle
- With stepless speed regulation
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing from special plastic



**Technical data:**  
 Tool holder: 5/8" - 11 Gang  
 No load current: 10000 r.p.m.  
 Capacity: 700 Watt  
 Vibration: < 0,2 ms<sup>2</sup>  
 Noise performance level: 103 dbA  
 Noise pressure level: 90 dbA  
 Air consumption: 142 l/min  
 Operating pressure: max. 6,3 bar (90 psi)  
 Min. tube diameter: 3/8" - 10 mm  
 Connection thread: 1/4"PT

	B mm	L mm	
515.3045	95,0	210,0	1.75

### Pneumatic disc cutter

- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For cutting wheels up to  $\varnothing 75 \text{ mm} \times 10 \text{ mm}$
- With safety cover
- For cutting metal sheet and steel
- Secure operation lever with locking device
- For working in inaccessible places
- With stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



#### Technical data:

Tool holder:	5/16" - 24 mm
No load current:	21000 r.p.m.
Capacity:	330 Watt
Vibration:	< 0,2 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	82 dbA
Air consumption:	85 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	Kg
515.3040	80.0	195.0	1.00

### Mini pneumatic random orbital sander

- 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
- Includes 1/4" coupling connector
- Receiver: Internal thread
- Robust housing
- Grinding disc with Velcro
- In durable plastic storage case



#### Technical data:

No load current:	15000 r.p.m.
Vibration:	< 1,5 ms <sup>2</sup>
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"

	B mm	L mm	Kg
515.5110	63 pcs	Mini pneumatic random orbital sander set	1.45

consists of:

			Kg
515.5111	Mini random orbital sander	700	
515.5119	Grinding pads, grit 320 $\varnothing 50 \text{ mm}$ , 10 pcs	16	
515.5118	Grinding pads, grit 400 $\varnothing 50 \text{ mm}$ , 10 pcs	16	
515.5117	Grinding pads, grit 600 $\varnothing 50 \text{ mm}$ , 10 pcs	16	
515.5116	Grinding pads, grit 320 $\varnothing 75 \text{ mm}$ , 10 pcs	19	
515.5115	Grinding pads, grit 400 $\varnothing 75 \text{ mm}$ , 10 pcs	19	
515.5114	Grinding pads, grit 600 $\varnothing 75 \text{ mm}$ , 10 pcs	19	
515.5113	Grinding disc $\varnothing 46.0 \text{ mm}$	13	
515.5112	Grinding disc $\varnothing 76.5 \text{ mm}$	20	

### Grinding disc

- With Velcro receiver
- With external thread receiver



	$\varnothing$ mm	Material	Content	Kg
515.5113	46,0	flexible	5	13
515.5112	76,5	flexible	5	20

### Grinding pads

- For polishing rough surfaces made from wood, metal, varnish and natural stone
- For breaking edges



	$\varnothing$ mm	Grain	Content	Kg
515.5119	50,0	320	10	16
515.5116	75,0	320	10	19
515.5118	50,0	400	10	16
515.5115	75,0	400	10	19
515.5117	50,0	600	10	16
515.5114	75,0	600	10	19

### Fine finish eccentric sander with dust extraction

- Air exhaust through the used air tube
- With ergonomic design for fatigue free working
- Compact construction height and light composite housing for controlled working
- For sanding or polishing
- Alternatively can be used with dust bag or industrial vacuum cleaner
- Includes fabric dust collection bag
- With 6 punched hole in pitch circle: 80 mm /  $\varnothing 11 \text{ mm}$
- With stepless speed regulation
- Low vibration
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



#### Technical data:

Sanding radius:	2,5 mm
Velcro disc receiver:	$\varnothing 152,4 \text{ mm} = 6"$
Tube length:	2 m
Capacity:	240 Watt
No load current:	10000 r.p.m.
Vibration:	3,5 ms <sup>2</sup>
Noise performance level:	71 dbA
Noise pressure level:	60 dbA
Air consumption:	255 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	1/4" - 6,35 mm
Connection thread:	1/4"PT

	D mm	L mm	Kg
515.3061	150.0	100.0	900

### Rapid removal eccentric sander with dust extraction

- Air exhaust through the used air tube
- With ergonomic design for fatigue free working
- Compact construction height and light composite housing for controlled working
- For sanding or polishing
- Alternatively can be used with dust bag or industrial vacuum cleaner
- Includes fabric dust collection bag
- With 6 punched hole in pitch circle: 80 mm /  $\varnothing 11 \text{ mm}$
- With stepless speed regulation
- Low vibration
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



#### Technical data:

Sanding radius:	5 mm
Velcro disc receiver:	$\varnothing 152,4 \text{ mm} = 6"$
Tube length:	2 m
Capacity:	240 Watt
No load current:	10000 r.p.m.
Vibration:	3,5 ms <sup>2</sup>
Noise performance level:	71 dbA
Noise pressure level:	60 dbA
Air consumption:	225 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	1/4" - 6,35 mm
Connection thread:	1/4"PT

	D mm	L mm	Kg
515.3066	150.0	100.0	900

### Pneumatic multi-grinder set

- For removing underbody coating, sealant, rust, corrosion, clingages, paints, films, text as well as for paint stripping
- With non-slip soft-grip-handle
- For hard to reach places
- Air exhaust through the handle rear end
- Easy operation
- Ideal for grinding and erasing work
- For working in hard to access areas
- Vibration dampened
- Includes 1/4" coupling connector
- Robust housing
- In durable plastic storage case



#### Technical data:

No load current:	3500 r.p.m.
Vibration:	< 4,4 ms <sup>2</sup>
Noise performance level:	94 dbA
Noise pressure level:	88 dbA
Air consumption:	113 l/min
Operating pressure:	6,2
Min. tube diameter:	1/4" - 6,3 mm
Connection thread:	1/4"

	D mm	L mm	Kg
515.5130	17 pcs	Pneumatic multi-grinder set	4.67

consists of:

515.5131	Mini multi-grinder with handle, 272 mm	1400	
515.5132	Film eraser, light execution, 105mm, pack of 5	1325	
515.5133	Film eraser, dark execution, 105mm, pack of 5	1400	
515.5134	Adaptor for film eraser, pack of 5	100	
515.5135	Brushing belt, coarse, curved tips, 11 mm, pack of 5	250	
515.5136	Brushing belt, coarse, curved tips, 23 mm, pack of 5	375	
515.5137	Brushing belt, straight tips, 11 mm, pack of 5	325	
515.5138	Brushing belt, straight tips, 23 mm, pack of 5	350	
515.5139	Eliminator disc 15 mm, pack of 5	500	
515.5166	Adaptor for 11 mm Ø brushing belt, pack of 5	80	
515.5167	Adaptor for individual eliminator disc, 19 mm, pack of 5	550	
515.5168	Adaptor for double eliminator disc, 31 mm, pack of 5	650	

**Pneumatic erasing machine**

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Ideal for removing of stickers glue and color remainders
- Includes neutral colored rubber eraser disc
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing from special plastic



**Technical data:**

Tool holder:	5/16" - 24
Capacity:	330 Watt
No load current:	2600 r.p.m.
Vibration:	< 0,1 ms <sup>2</sup>
Noise performance level:	95 dbA
Noise pressure level:	82 dbA
Air consumption:	85 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	Eraser wheels	
515.1244	40.0	225.0	515.1243	1.08

**Rubber eraser disc**

- For removing of stickers, glue and color remainders on varnished areas
- Includes neutral colored rubber eraser preventing a smearing on the surface
- Not suitable for pneumatic die grinders



**Technical data:**

Speed:	4000 rpm
Shaft:	M8

	B mm	D mm	Content	
515.1243	15.0	90.0	1	110
515.1285	15.0	90.0	6	660

**Soldering wood set**

- Suitable for working hot-tinned surfaces
- Comprehensive set with various soldering woods
- Beech wood



903.1010	5 pcs	Soldering wood set	460

consists of:

903.1011	Soldering wood chock, 180 x 53 x 34 mm	120	
903.1012	Soldering wood chock, 158 x 40 x 50 mm	120	
903.1013	Soldering wood chock, 130 x 41 x 40 mm	80	
903.1016	Soldering wood block, 92 x 30 x 25 mm	40	
903.1017	Soldering wood block, 92 x 47 x 20 mm	60	

**Stainless steel spatula with short handle**

- With two component handle
- Ground
- Polished
- With suspension hole
- Extremely long service life
- Rust-proof
- Stainless steel



	Length mm	Width mm	
144.0631	50.0	100.0	20
144.0632	75.0	113.0	30
144.0633	100.0	116.0	50
144.0634	150.0	120.0	85

**Stainless steel scraper**

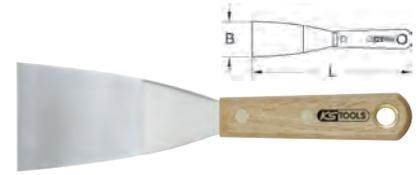
- With two component handle
- Ground
- Polished
- Stainless steel



	L mm	B mm	
144.0622	225.0	30.0	72
144.0624	225.0	40.0	73
144.0625	225.0	50.0	75
144.0626	225.0	60.0	84
144.0628	225.0	80.0	85

**STAINLESS STEEL scraper**

- With wooden handle
- Ground
- Polished
- With hanging hole
- 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



	L mm	B mm	
907.2261	225.0	25.0	70
907.2262	225.0	38.0	70
907.2263	225.0	50.0	70
907.2264	225.0	63.0	70
907.2265	225.0	75.0	80

**Sanding block with sponge rubber backing**

- Accepts emery and sandpaper etc
- Moulded handle ensures a comfortable grip
- Ideally suited for working on surfaces
- Clamping clips made from stainless steel
- Special plastic



	L mm	B mm	
515.3095	210.0	105.0	330

**Grinding hand block set**

- Ideal for grinding and polishing
- For affixing sandpaper, etc. by hook and loop fastener
- Ideally suited to working on level surfaces
- With ergonomic design for fatigue-free working
- Low height
- With dust suction in combination with an industrial vacuum cleaner
- With non-slip soft touch handle
- Ultra-light robust housing from special plastic



140.3065	3 pcs	Grinding hand block set	690

consists of:

140.3066	Grinding hand block, small, 70 x 125 mm	180	
140.3067	Grinding hand block, medium, 90 x 175 mm	215	
140.3068	Grinding hand block, large, 115 x 225 mm	290	

## INTERNAL CLEANING

### Plasma air-cleaner with ionisator technology

- Eliminates odours and disinfects the interior of the vehicle
- Compact, lightweight, and high ozone emission
- For use in closed passenger compartments
- In odour elimination mode, it switches off automatically after 60 minutes
- In disinfection mode, it automatically switches off after 30 minutes and immediately switches to odour elimination mode for 30 minutes
- Works without chemical additives, guaranteed to leave no residue
- It leaves no traces, even on sensitive surfaces
- Removes mould, bacteria, fungus and mites
- Includes an active carbon HEPA technology replacement filter
- Simple operation



#### Technical data:

Dimensions:	173x122x49 mm
Battery type:	Lithium-ion
Rechargeable battery:	<850 mA/H
Operational voltage:	DC 12-24V / AC 100-240V / 50/60 Hz
Power consumption:	5
Ozone transformation:	5 mg/h
Negative Ion concentration:	3000 pcs/cm <sup>2</sup>
Covering scope:	15m <sup>2</sup>

Replacement filter		g
550.1183	550.1199	360

### Compressed-air cleaning guns

- Ideal for spraying cleaning fluids or oils
- With integrated storage tank 750 cm<sup>3</sup>
- Simple handling
- Robust design
- Coated metal

**Application range:** Waxing, sealing, impregnating, spraying cold cleaners in or on to surfaces, washing agents, antirust agents, spray oils, etc.



#### Technical data:

Operating pressure:	max. 6,3 bar (90 psi)
Air consumption:	170 l/min
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"

Length mm	Height mm	Ø mm	g
515.1911	310.0	230.0	4.5 500

## HURRICANE pneumatic cleaning guns

- Ideal for professional cleaning of cushions, door pillars, ventilation channels, carpets, foot mats, fabric seats, etc.
- Pneumatic-operated with simple handling
- Unique, cyclonic, ball bearing mounted rotation cleaning technology
- Efficient and energy-saving using targeted air turbulence
- For all possible surfaces, cleaned damp or dry
- Also suitable for hard-to-reach places, e.g. between seats and seams
- Cleaned surfaces also dry extremely quickly thanks for the fine misted cleaning solution
- With pressure regulator
- Includes 360° rotating and 30° angled ball joint and plug nipple



#### Technical data:

No load current:	8000 r.p.m.
Vibration:	0,64 ms <sup>2</sup>
Noise performance level:	110 dbA
Noise pressure level:	90 dbA
Air consumption:	160 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10,0 mm
Connection thread:	1/4"PT

		g
515.1980	1000 ml	755

### Cleaning Brush-Adaptor

- Ideal addition for cleaning the interior
- Can be used in conjunction with HURRICANE compressed-air cleaning guns (515.1980)
- With screw connection
- Plastic housing



		g
515.1983	Cleaning Brush-Adaptor	27

### Cleaning Brush

- Ideal addition for cleaning the interior
- Can be used in conjunction with HURRICANE compressed-air cleaning guns (515.1980)
- With suspension hole
- Plastic housing

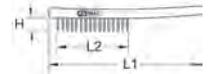


		g
515.1986	Cleaning Brush	60

## WIRE BRUSHES

### Steel hand wire brush 3 rowed

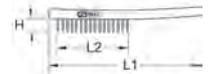
- 3 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With steel bristles



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

### Steel hand wire brush 4 rowed

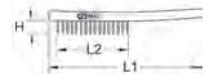
- 4 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With steel bristles



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

### Stainless steel hand wire hand brush 3 rowed

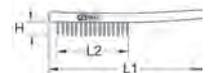
- 3 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With stainless steel bristles



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

### Stainless steel hand wire hand brush 4 rowed

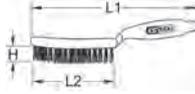
- 4 rowed
- Universal use
- Handle made out of wood
- For surface preparation
- With stainless steel bristles



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

**Brass wire hand brush 3 rowed**

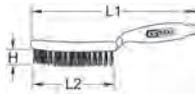
- 3 rowed
- Universal usage
- Plastic hand grip casing
- For surface preparation
- Straight brass wire



	H mm	L1 mm	L2 mm	
201.2326	25.0	285.0	130.0	105

**Steel wire hand brush 4 rowed**

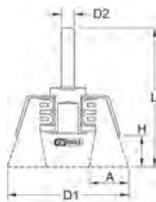
- 4 rowed
- Universal usage
- Plastic hand grip casing
- For surface preparation
- Straight steel wire



	H mm	L1 mm	L2 mm	
201.2325	25.0	285.0	130.0	120

**Steel wire jar brush 0,3 mm**

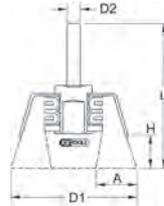
- With 6 mm mandril
- To enable with high rotary speed
- Long durability through compact border
- For use with drill machine
- For surface preparation
- Crimped steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0001	8000	10.0	38.0	6.0	20.0	55.0	50
340.0002	10500	10.0	50.0	6.0	20.0	70.0	60
340.0003	4500	10.0	63.0	6.0	20.0	88.0	70
340.0004	4500	15.0	75.0	6.0	25.0	105.0	80
340.0005	4500	15.0	80.0	6.0	25.0	112.0	90

**Rust free steel jar brush 0,3 mm**

- With 6 mm mandril
- To enable with high rotary speed
- Long durability through compact border
- For use with drill machine
- For surface preparation
- Curled and rust free steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0011	8000	10.0	38.0	6.0	20.0	55.0	50
340.0012	10500	10.0	50.0	6.0	20.0	70.0	60
340.0013	4500	10.0	63.0	6.0	20.0	88.0	70
340.0014	4500	15.0	75.0	6.0	25.0	105.0	80
340.0015	4500	15.0	80.0	6.0	25.0	112.0	90

**Steel wire brush 0,3 mm**

- With 6 mm mandril
- For use with drill machine
- For difficult to access areas
- For surface preparation
- Crimped steel wire



	RPM max	D1 mm	D2 mm	H mm	L mm	
340.0016	20000	17.0	6.0	22.0	65.0	30
340.0017	18000	23.0	6.0	25.0	68.0	40
340.0018	18000	30.0	6.0	25.0	68.0	50

**Paint brush steel wire brush 0,5 mm**

- With 6 mm mandril
- For use with drill machine
- For difficult to access areas
- For surface preparation
- Crimped steel wire



	RPM max	D1 mm	D2 mm	H mm	L mm	
340.0019	20000	17.0	6.0	22.0	65.0	30
340.0020	18000	23.0	6.0	25.0	68.0	40
340.0021	18000	30.0	6.0	25.0	68.0	40

**Steel wire jar brush 0,5 mm**

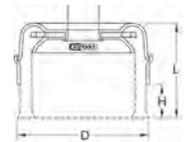
- Braided design
- With thread arbor
- For use in one hand angle grinder
- Ideal for heavy brush works
- For surface preparation
- Crimped steel wire



	RPM max		D mm	H mm	L mm	No. plates	
340.0022	12500	M14 x 2,0	65.0	20.0	55.0	18	160
340.0023	11500	M14 x 2,0	80.0	22.0	68.0	20	200
340.0024	11500	M14 x 2,0	90.0	22.0	77.0	20	240

**Rust free stainless steel wire jar brush 0,5 mm**

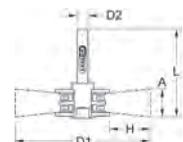
- Braided design
- With thread arbor
- For use in one hand angle grinder
- Ideal for heavy brush works
- For surface preparation
- Curled and rust free steel wire



	RPM max		D mm	H mm	L mm	No. plates	
340.0025	12500	M14 x 2,0	65.0	20.0	55.0	18	160
340.0026	11500	M14 x 2,0	80.0	22.0	68.0	20	200
340.0027	11500	M14 x 2,0	90.0	22.0	77.0	20	240

**Steel wire brush disc 0,3 mm**

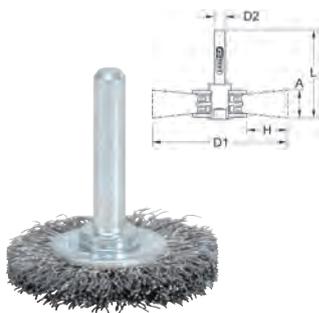
- With 6 mm mandril
- Especially longlife industry version
- For use with drill machine
- For surface preparation
- Curled steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0028	20000	9.0	30.0	6.0	6.0	45.0	40
340.0029	15000	14.0	50.0	6.0	12.0	45.0	40
340.0030	15000	14.0	60.0	6.0	17.0	45.0	60
340.0031	15000	16.0	70.0	6.0	19.0	45.0	80
340.0032	15000	18.0	80.0	6.0	20.0	45.0	100

### Rust free steel wire brush disc 0,3 mm

- With 6 mm mandril
- Especially longlife industry version
- For use with drill machine
- For surface preparation
- Curled and rust free steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0033	20000	9.0	30.0	6.0	6.0	45.0	40
340.0034	15000	14.0	50.0	6.0	12.0	45.0	40
340.0035	15000	14.0	60.0	6.0	17.0	45.0	60
340.0036	15000	16.0	70.0	6.0	19.0	45.0	80
340.0037	15000	18.0	80.0	6.0	20.0	45.0	100

### Steel wire circular brush 0,3 mm

- Braided design
- With 12 mm mandril
- Especially longlife industry version
- For use in with drill machine
- For removing of underbody coating
- For surface preparation
- Flat steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0038	15000	12.0	75.0	6.0	15.0	43.0	100

### Steel wire circular brush 0,5 mm

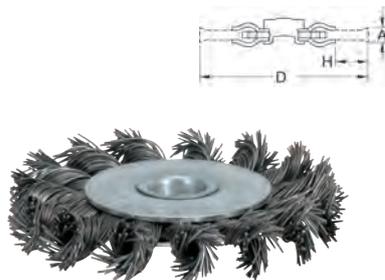
- Braided design
- With 12 mm mandril
- Especially longlife industry version
- For use in with drill machine
- For removing of underbody coating
- For surface preparation
- Flat steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0039	15000	12.0	75.0	6.0	15.0	43.0	100

### Steel wire circular brush 0,5 mm

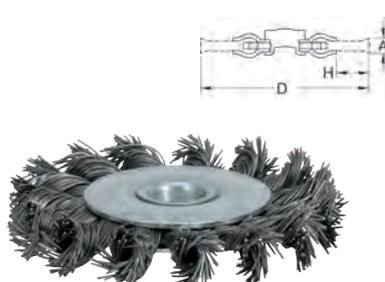
- Braided design
- With 22,2 mm bore reception
- Longlife industry version
- For use in one hand angle grinder
- For removing of rubber, grate and lacquer residue
- For surface preparation
- Flat steel wire



	RPM max	A mm	D mm	H mm	No. plates	
340.0040	12500	11.0	75.0	16.0	15	90
340.0041	12500	11.0	100.0	20.5	18	120
340.0042	12500	11.0	115.0	23.5	20	140
340.0043	12500	11.0	125.0	24.5	22	150

### Stainless steel and brushed steel 0,5 mm

- Braided design
- With 22,2 mm bore reception
- Longlife industry version
- For use in one hand angle grinder
- For removing of rubber, grate and lacquer residue
- For surface preparation
- Flat and grate free steel wire



	RPM max	A mm	D mm	H mm	No. plates	
340.0044	12500	11.0	75.0	16.0	15	90
340.0045	12500	11.0	100.0	20.5	18	120
340.0046	12500	11.0	115.0	23.5	20	140
340.0047	12500	11.0	125.0	24.5	22	150

### Cone design steel wire circular brush 0,5 mm

- Braided design
- With thread arbor
- Especially longlife industry version
- For use in one hand angle grinder
- For hard to reach places
- For surface preparation
- Flat steel wire



	RPM max		A mm	D mm	H mm	No. plates	
340.0048	12500	M 14 x 2,0	12.0	100.0	20.0	18	190
340.0049	15000	M 14 x 2,0	12.0	115.0	24.0	20	210

### Rust free cone design steel wire circular brush 0,5 mm

- Braided design
- With thread arbor
- Especially longlife industry version
- For use in one hand angle grinder
- For hard to reach places
- For surface preparation
- Flat and grate free steel wire



	RPM max		A mm	D mm	H mm	No. plates	
340.0050	12500	M 14 x 2,0	12.0	100.0	20.0	18	190
340.0051	15000	M 14 x 2,0	12.0	115.0	24.0	20	210

## STEERING WHEEL AND FITTING

### Universal steering wheel puller 3 arm

- For steering wheels with three or four spokes
- Tie rings with rubber sleeve for protection on the steering wheel
- Special steel



	Ø mm	L mm	max t mm			
670.0191	160	120	4	17	M14x1,5 x 130	1.90

### Universal steering wheel puller 2 arm for passenger cars

- Suitable for quick, clean and damage-free removal of the steering wheel
- With short and long hooks as well as pressure piece for spindle
- Suitable for universal use due to longitudinal grooves in the puller bridge
- Extremely robust spindle with inductively hardened thread
- Special steel



	A mm	B mm	max t mm			D mm	E mm	F mm	G mm	
670.0201	90	135	2,5	M14x1,5 x 130	17	5	3,5	11	7,5	900

**Steering wheel distance sleeve remover for VAG**

- For removing the distance sleeve on the steering spindle when changing ignition switch
- Shearing action increases the pressing power when removing
- Clamp holds hooks firmly together
- Prevents slippage
- Extremely robust spindle with inductively hardened thread
- Special steel

**Application range:** Audi, Volkswagen, Seat, Škoda, etc.



A	B	max	mm	D	E	F	G	Weight
mm	mm	t	mm	mm	mm	mm	mm	g
620.5401	80	90	5	M18 x 1.5 x 130	19	3	12 26 24	1.70

**Steering wheel distance sleeve puller for Volkswagen**

- Suitable for quick, clean and damage-free removal of the adapter sleeve on the steering arm
- External drive hexagonal socket 17.0 mm
- Extremely robust spindle with inductively hardened thread
- Special steel

**Application range:** Volkswagen Golf 2, Golf 3, Golf 4, Jetta, Passat > 1988



Length	mm	Weight
450.0303	180.0	720

**Steering wheel distance sleeve mandrel**

- Suitable in order to strike the adapter sleeve damage-free on the steering column
- Brass



Length	mm	Ø	mm	Weight
450.0304	150.0	30,0	720	

**Pull hook set for instrument cluster**

- Ideal for removing the instrument cluster
- Without this tool it is impossible to remove the instrument cluster without damage
- Specially curved
- 1 piece handle
- With suspension hole

**Application range:** Mercedes W116, W123, W124, W126, W129, W140, W201, W202, W203, W208, W209, W210, W211, W220, W230, Volkswagen Crafter



Weight
140.2380

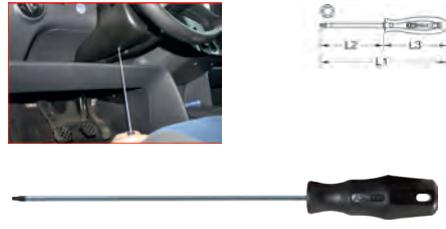
consists of:

X	Weight
140.2381	56

**Steering column shroud screwdriver for TX screws**

- Suitable for assembly and disassembly of steering column shroud
- 1 piece handle
- Optimal power transmission
- With suspension hole
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

**Application range:** Audi A4 (8E), A6 (4F)



L1	L2	L3	Weight		
mm	mm	mm	g		
911.1661	T8	350,0	250,0	100,0	80

**AIRBAG**

**Special airbag bit socket for hexagon screws**

- Suitable for the assembly and disassembly of the airbag unit
- Optimal access to the airbag unit screws
- Hexagon socket
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Bit socket in custom lengths
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

**Application range:** Audi, etc.



Length	mm	Weight	
140.2303	5	85.0	30

**Special airbag bit socket for TX screws**

- Suitable for the assembly and disassembly of the airbag unit
- Optimal access to the airbag unit screws
- TX
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Bit socket in custom lengths
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

**Application range:** BMW, etc.



Length	mm	Weight	
140.2305	T25	85.0	30

**Special airbag bit socket for TX screws with bore hole**

- Suitable for the assembly and disassembly of the airbag unit
- Optimal access to the airbag unit screws
- TX with bore hole
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Bit socket in custom lengths
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

**Application range:** BMW, etc.



Length	mm	Weight	
140.2304	TB25	85.0	30

**Special airbag bit socket for TX screws**

- Suitable for the assembly and disassembly of the airbag unit
- Optimal access to the airbag unit screws
- TX
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Bit socket in custom lengths
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

**Application range:** Audi A4 > 2004, etc.



Length	mm	Weight	
140.2307	T27	85.0	30

**Special airbag bit socket for TX screws with bore hole**

- Suitable for the assembly and disassembly of the airbag unit
- Optimal access to the airbag unit screws
- TX with bore hole
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Bit socket in custom lengths
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

**Application range:** Audi A4 > 2004, etc.



Length	mm	Weight	
140.2308	TB27	85.0	30

### Special airbag bit socket for TX screws

- Suitable for the assembly and disassembly of the airbag unit
- Optimal access to the airbag unit screws
- TX
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Bit socket in custom lengths
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

**Application range:** Audi, Opel, Renault, Volkswagen, etc.



		Length mm	
140.2302	T30	85.0	30

### Special airbag bit socket for TX screws with bore hole

- Suitable for the assembly and disassembly of the airbag unit
- Optimal access to the airbag unit screws
- TX with bore hole
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Bit socket in custom lengths
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

**Application range:** Audi, BMW, Mercedes, Opel, etc.

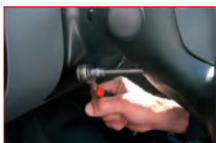


		Length mm	
140.2301	TB30	85.0	30

### Special airbag bit socket set

- Suitable for the assembly and disassembly of the airbag unit
- Optimal access to the airbag unit screws
- Internal hexagon, TX with and without tamperproof borehole
- Range for the assembly and disassembly of the airbag unit
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Bit socket in custom lengths
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

**Application range:** Audi, BMW, Mercedes, Opel, Volkswagen, etc.



140.2300	5 pcs Special airbag bit socket set	200

consists of:

140.2301	1/4" Airbag bit socket TB 30	30
140.2302	1/4" Airbag bit socket TX 30	30
140.2303	1/4" Airbag bit socket hexagonal 5 mm	30
140.2304	1/4" Airbag bit socket TB 25	30
140.2305	1/4" Airbag bit socket TX 25	30

### Special airbag unlocking tool

- Suitable for disassembling the airbag unit
- Optimal access to the airbag unit
- For manual operation
- 1 piece handle
- Special steel

**Application range:** Audi, Seat, Škoda, BMW, Mercedes, Volkswagen, etc.



140.2317	Special airbag unlocking tool	30

### Special airbag key

- Suitable for disassembling the airbag unit
- Optimal access to the airbag unit
- For manual operation
- Contains 2 pieces as standard
- 1 piece handle
- Special steel

**Application range:** Audi A4, A6, Volkswagen Passat, Polo, Lupo, etc.



140.2313	Special airbag key	100

### Special airbag key

- Suitable for disassembling the airbag unit
- Optimal access to the airbag unit
- For manual operation
- Contains 2 pieces as standard
- 1 piece handle
- Special steel

**Application range:** Seat, Škoda Fabia, Octavia, Volkswagen Golf 4, New Beetle, etc.



140.2311	Special airbag key	70

### Special airbag unlocking tool

- Suitable for disassembling the airbag unit
- Optimal access to the airbag unit
- For manual operation
- With suspension hole
- Special steel

**Application range:** Volkswagen, Golf 4, Bora, Passat, etc.



140.2315	Special airbag unlocking tool	30

### Special airbag removal lever

- Suitable for disassembling the airbag unit
- Optimal access to the airbag unit
- For manual operation
- Special steel

**Application range:** Volkswagen

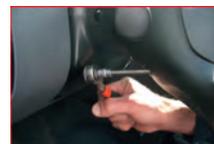


		Width mm	Length mm	
140.2316		5,5 + 8,0	105,0 + 96,0	50

### Airbag dismantling tool set

- For the dismantling and assembly of airbag units
- Sockets are the ideal length
- Optimal access to the reinforcement screws of the airbag pad
- Universal usage
- In durable plastic case

**Application range:** Audi, BMW, Mercedes Benz, Opel, Volkswagen, Renault, Seat, Skoda, etc.



140.2310	12 pcs Airbag dismantling tool set	1.60

consists of:

140.2301	1/4" Airbag bit socket, TB 30	30	
140.2302	1/4" Airbag bit socket, T30	30	
140.2303	1/4" Airbag bit socket, hex 5mm	30	
140.2304	1/4" Airbag bit socket, TB 25	30	
140.2305	1/4" Airbag bit socket, T25	30	
140.2311	Airbag tools Golf 4, Skoda Fabia, 2pcs	70	
140.2313	Airbag tools VW Polo, Audi A4, 2pcs	100	
140.2315	Airbag tools Golf 4, Passat, Bora	30	
140.2316	Airbag tools VW, 105x96mm 5,+8,0mm	50	
140.2317	Uni Airbag unlocking tool	30	

**LOCKING CYLINDER**

**Door lock screwdriver**

- Spline (XZN®)
- Suitable for the assembly and disassembly of the door lock screws
- Also suitable for the external door handle
- 1 piece handle
- Blade made of chrome vanadium

**Application range:** Audi TT, Volkswagen Golf 4, Passat B5, Lupo, New Beetle, Bora, Seat, Škoda, etc.



		L1 mm	L2 mm	
911.1117	M4	125.0	215.0	50

**VAG ignition lock disassembly needle tool**

- Suitable for disassembling the ignition lock
- For unlocking the interior locking bolt
- With two component handle
- Blade made of chrome vanadium

**Application range:** Audi A3, Volkswagen Golf 4, Passat >1997, Seat, etc.



	Ø mm	L1 mm	L2 mm	
911.1118	1,4	200.0	120.0	60



**Mercedes steering wheel lock spring clamp**

- Suitable for disassembling the protective sleeve with ignition starter switch from the steering wheel lock
- Locating bolts in the steering lock part must be pressed in with the spring clamps
- Contains 2 pieces as standard
- Special steel

**Application range:** Mercedes W129, W140, W210 and W202 with FBS2 ignition lock



	Length mm	Width mm	
500.1310	150.0	105.0	10

**Mercedes rear lock disassembly needle tool**

- Suitable for the quick removal of the locking cylinder on the rear lock
- Contains 2 pieces as standard
- Special steel

**Application range:** Mercedes W203 rear lock

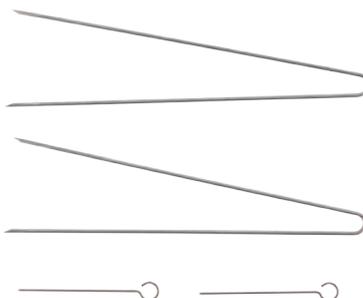
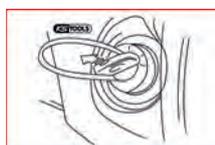


	Length mm	
500.1311	110.0	10

**Mercedes ignition lock disassembly needle tool set**

- Ideal for fast disassembly of the ignition
- Easy removal
- Special steel

**Application range:** Mercedes W116, W123, W124, W126, W201



500.1315	4 pcs	Mercedes ignition lock disassembly needle tool set	25

consists of:

500.1383	Mercedes ignition removal needle tool Ø 1.25 mm, 2 pcs.	9	
500.1384	Mercedes ignition removal needle tool Ø 2.0 mm, 2 pcs.	1	

**Ignition key mounting sleeve**

- Suitable for the quick release of the ignition lock rosette
- With suspension hole
- Aluminium

**Application range:** Mercedes W129, W140, W203, W208, W209, W210, W211, W220, W230, W906 with FBS2 and FBS3 ignition lock systems, Volkswagen Crafter



	Length mm	
500.1312	80.0	55

**Ignition key mounting sleeve**

- Suitable for the quick release of the ignition lock rosette
- With rubber mat in the interior
- Special steel

**Application range:** Mercedes W202, W210 until 1997



	Length mm	
500.1313	110.0	150

**Locking cylinder assembly sleeve**

- Suitable for the quick and exact repair of the door lock
- For inside track closure with internal spring
- Special steel

**Application range:** Seat, Škoda, Volkswagen Passat, Vento, Beetle, Lupo, Golf 4 (not Cabrio), etc.



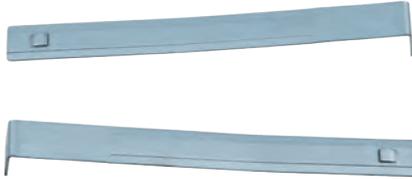
	Total length mm	
500.1314	65.0	100

## RADIO AND NAVIGATION SYSTEM

### Radio and navigation device unlocking tool Panasonic

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Panasonic

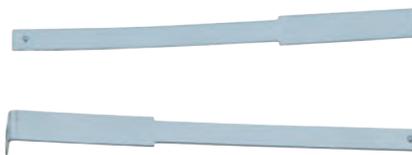


	Length mm	
500.1366	100.0	6

### Radio and navigation device unlocking tool Kenwood

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Kenwood > 1998

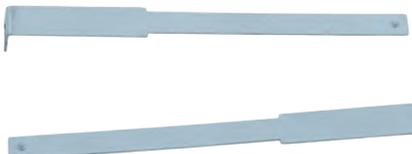


	Length mm	
500.1367	110.0	4

### Radio and navigation device unlocking tool Panasonic

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Panasonic

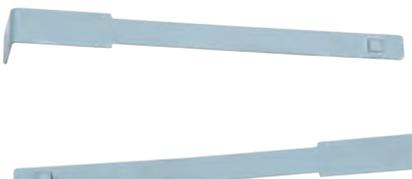


	Length mm	
500.1368	105.0	5

### Radio and navigation system unlocking tool Pioneer and JVC

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Pioneer and JVC



	Length mm	
500.1369	95.0	6

### Radio installation and removal set

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Blaupunkt, Grundig, Volkswagen, Audi, Ford



	Length mm	
500.1371	96.0	22

### Radio installation and removal set

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 1 pieces as standard

**Application range:** for BMW



	Length mm	
500.1372	85.0	20

### Radio installation and removal set

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 4 pieces as standard

**Application range:** for Audi, Volkswagen, Becker, Mercedes



	Length mm	
500.1373	78.0	15

### Radio installation and removal set

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Becker, Porsche, Mercedes



	Length mm	
500.1374	68.0	6

### Radio installation and removal set

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Volkswagen



	Length mm	
500.1375	61.0	6

### Radio installation and removal set

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 1 pieces as standard

**Application range:** for BMW and Opel



	Length mm	
500.1376	52.0	2

### Radio installation and removal set

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Becker > 2002



	Length mm	
500.1377	89.0	11

### Radio installation and removal set

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Škoda > 2002



	Length mm	
500.1378	65.0	7

**Radio installation and removal set**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 4 pieces as standard

**Application range:** for Blaupunkt > 2002



Length mm		
500.1379	97.0	24

**Radio and navigation device unlocking tool Opel**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Opel double ball hexagon socket

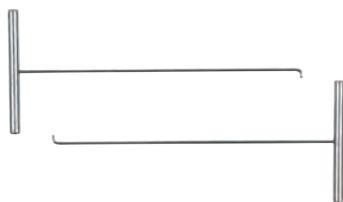


Length mm		
500.1381	90.0	15

**Radio and navigation system unlocking tool Mercedes and BMW**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Mercedes and BMW

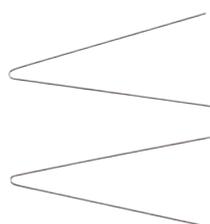


Length mm		
500.1382	165.0	21

**Radio and navigation system unlocking tool Mercedes and BMW**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Mercedes and BMW

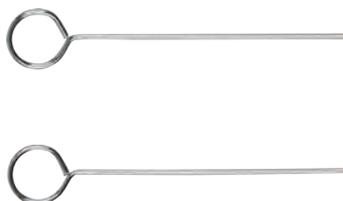


Length mm		
500.1383	180.0	9

**Mercedes ignition removal needle tool Ø 2.0 mm**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Mercedes and BMW



Length mm		
500.1384	65.0	1

**Radio and navigation device unlocking tool Clarion**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Clarion new

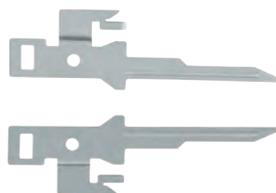


Length mm		
500.1385	115.0	11

**Radio and navigation device unlocking tool Kenwood**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Kenwood



Length mm		
500.1386	110.0	9

**Radio and navigation device unlocking tool Clarion**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Clarion old

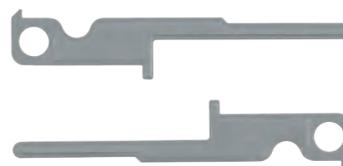


Length mm		
500.1387	115.0	28

**Radio and navigation device unlocking tool Kenwood**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Kenwood III > 2002



Length mm		
500.1388	120.0	7

**Radio and navigation device unlocking tool Sony**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Sony II > 2002

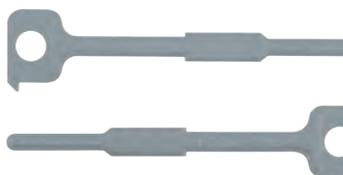


Length mm		
500.1389	97.0	7

**Radio and navigation device unlocking tool Kenwood**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Kenwood II 1998-2001



Length mm		
500.1396	120.0	7

**Radio and navigation device unlocking tool Sony**

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Sony I > 2005



Length mm		
500.1397	115.0	7

### Radio and navigation device unlocking tool Sony

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Sony I > 2001



	Length mm	
500.1398	54.0	4

### Radio and navigation device unlocking tool Fiat

- Ideal for the assembly and disassembly of car radios and navigation devices
- Professionally and without damage
- Saves time
- Contains 2 pieces as standard

**Application range:** for Fiat Brava



	Length mm	
500.1399	74.0	10

### Radio installation and removal set

- Ideal for the assembly and disassembly of car radios and navigation devices
- For loosening the locking devices
- Range for various unlocking systems
- In plastic storage pouch



500.1370	18 pcs	Radio installation and removal set	160

**consists of:**

500.1371	Radio install+removal set, 2pcs, FORD	22
500.1372	Radio install+removal set, 1pcs, BMW	20
500.1373	Radio install+removal set, 4pcs, Mercedes	15
500.1374	Radio install+removal set, 2pcs, Porsche	6
500.1375	Radio install+removal set, 2pcs, VW	6
500.1376	Radio install+removal set, 1pcs, BMW/OPEL	2
500.1377	Radio install+removal set, 2pcs, Becker	11
500.1378	Radio install+removal set, 2pcs, Skoda	7
500.1379	Radio install+removal set, 2pcs, Blaupunkt	24

### Radio and navigation system installation and removal set

- Ideal for the assembly and disassembly of car radios and navigation devices
- For loosening the locking devices
- Extensive range for various unlocking systems
- In durable plastic storage case

**Application range:** Porsche, Mercedes, Fiat, Volkswagen, Audi, Ford, BMW, Opel, Clarion, Kenwood, Panasonic, Pioneer, JVC, Sony, Becker, Blaupunkt, Grundig, etc.



500.1380	52 pcs	Radio and navigation system installation and removal set	1.41

**consists of:**

500.1366	Radio unlocking tool Panasonic, 2 pcs.	6
500.1367	Radio unlocking tool Kenwood, 2 pcs.	4
500.1368	Radio unlocking tool Panasonic, 2 pcs.	5
500.1369	Radio unlocking tool Pioneer, JVC, 2 pcs	6
500.1371	Radio install+removal set, 2pcs, FORD	22
500.1372	Radio install+removal set, 1pcs, BMW	20
500.1373	Radio install+removal set, 4pcs, Mercedes	15
500.1374	Radio install+removal set, 2pcs, Porsche	6
500.1375	Radio install+removal set, 2pcs, VW	6
500.1376	Radio install+removal set, 1pcs, BMW/OPEL	2
500.1377	Radio install+removal set, 2pcs, Becker	11
500.1378	Radio install+removal set, 2pcs, Skoda	7
500.1379	Radio install+removal set, 2pcs, Blaupunkt	24
500.1381	Radio unlocking tool Opel, 2 pcs.	15
500.1382	Radio unlocking tool, Mercedes, BMW, 2 pcs.	21
500.1383	Mercedes ignition removal needle tool Ø 1.25 mm, 2 pcs.	9
500.1384	Mercedes ignition removal needle tool Ø 2.0 mm, 2 pcs.	1
500.1385	Radio unlocking tool Clarion, 2 pcs.	11
500.1386	Radio unlocking tool Kenwood, 2 pcs.	9
500.1387	Radio unlocking tool Clarion, 2 pcs.	28
500.1388	Radio unlocking tool Kenwood, 2 pcs.	7
500.1389	Radio unlocking tool Sony, 2 pcs.	7
500.1396	Radio unlocking tool Kenwood, 2 pcs.	7
500.1397	Radio unlocking tool Sony, 2 pcs.	7
500.1398	Radio unlocking tool Sony, 2 pcs.	4
500.1399	Radio unlocking tool Fiat, 2 pcs.	10

### CLIP, RIVET AND EXTRACTION TOOLS

#### Plastic rivet pliers set included rivets

- Suitable for plastic rivets
- Narrow head pliers
- Can be used in hard to access areas
- 90° angled rivet head
- With rubber grip
- Includes 40 plastic rivets
- Die-cast metal body

Plastic rivets: 5.0x15.8 - 5.0x17.2 - 6.3x25.2 - 6.6x17.2 mm



150.9650	41 pcs	Plastic rivet pliers set included rivets	760

**consists of:**

150.9651	Plastic rivet pliers	580
150.9652	Replacement rivets Pack of 10, 17,2 x 6,6 mm	20
150.9653	Replacement rivets Pack of 10, 25,2 x 6,3 mm	22
150.9654	Replacement rivets Pack of 10, 17,2 x 5 mm	15
150.9655	Replacement rivets Pack of 10, 15,8 x 5 mm	16

#### Rivet removal pliers set

- Suited to the dismantling of plastic rivets
- Self-opening
- Including angled and straight set up
- Plastic



115.1096	2 pcs	Rivet removal pliers set	40

**consists of:**

115.1097	Rivet pliers, red, angled, 100mm	20
115.1098	Rivet pliers, blue, straight, 100mm	20

**Trim clip pliers set**

- Suited to the dismantling of plastic rivets and plastic clips
- With various profiles
- 35° + 80° angled tips
- Self-opening
- Chrome vanadium



115.1086	2 pcs	Trim clip pliers set	380

consists of:

115.1087	Trim clip pliers, 35° offset, 190mm	180	
115.1088	Trim clip pliers, 80° offset, 200mm	190	

**Clip remover**

- For metal and plastic clips
- Durable tool for the removal of door panels
- Lever effect due to the angled head on the front end of the lifter
- Robust execution with durable square shaft
- With hanging hole
- Special steel



	L mm	opening mm		
140.2230	275.0	12.0		160

**Clip remover, short**

- For metal and plastic clips
- Durable tool for the removal of door panels
- Lever effect due to the angled head on the front end of the lifter
- Rugged design with durable shaft
- With suspension hole
- 15° angled
- With two component handle
- Special steel



	L mm	opening mm		
140.2371	245.0	4.0		65
140.2372	245.0	8.0		65
140.2373	245.0	10.0		65

**Clip remover, long**

- For metal and plastic clips
- Durable tool for the removal of door panels
- Lever effect due to the angled head on the front end of the lifter
- Rugged design with durable shaft
- With suspension hole
- 15° angled
- With two component handle
- Special steel



	L mm	opening mm		
140.2374	510.0	4.0		150
140.2375	510.0	8.0		150
140.2376	510.0	10.0		150

**Clip removal set**

- For metal and plastic clips
- Durable tool for the removal of door panels
- Lever effect due to the angled head on the front end of the lifter
- Rugged design with durable shaft
- With suspension hole
- 15° angled
- With two component handle
- Special steel



140.2370	6 pcs	Clip removal set	1.00

consists of:

140.2371	Clip release short, length 245 mm, opening 4 mm	65	
140.2372	Clip release short, length 245 mm, opening 8 mm	65	
140.2373	Clip release short, length 245 mm, opening 10 mm	65	
140.2374	Clip release long, length 510 mm, opening 4 mm	150	
140.2375	Clip release long, length 510 mm, opening 8 mm	150	
140.2376	Clip release long, length 510 mm, opening 10 mm	150	

**Clip remover**

- For removing and installing clips
- With varying length ends
- Very flat and robust execution
- Painted surface
- Metal



	L1 mm	L2 mm	L3 mm	
140.2249	230.0	100.0	50.0	170

**Clip removal set**

- Special tool for the careful removal of metal and plastic clips and Rubber plugs
- Straight and angled form
- With rubber handle
- Metal



140.2232	2 pcs	Clip removal set	90

consists of:

140.2223	Clip remover angled form	45	
140.2224	Clip remover straight form	45	

**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	
911.8125	210.0	20.0	80

**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	
911.8123	200.0	30.0	70

**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	
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



911.8120	5 pcs	Plastic lever wedge set	300

consists of:

911.8121	Bumper trim removal wedge, 160 mm	80
911.8122	Trim removal wedge, 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

### 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	
911.8106	200.0	30.0	40

### Dual clip remover, straight profiled

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



	L mm	B mm	
911.8107	200.0	30.0	40



### Clip remover U-form, narrow angled

- Universal usage
- For removing cover panels trims and protective caps, etc
- Beveled ground blades
- With hanging hole
- With two component handle
- Stainless steel



	Width mm	Depth mm	Total length mm	Blade length mm	Blade thickness mm	
911.8191	6.0	13.0	230.0	95.0	2.5	120

### Clip remover V-form

- Universal usage
- For removing cover panels trims and protective caps, etc
- With cutting edge blade
- Bevelled ground cutting edge blade
- With hanging hole
- With two component handle
- Stainless steel



	Width mm	Depth mm	Total length mm	Blade length mm	Blade thickness mm	
911.8192	5.0	8.0	230.0	95.0	2.5	120

### Clip remover U-form, wide offset

- Universal usage
- For removing cover panels trims and protective caps, etc
- Bevelled ground blades
- With hanging hole
- With two component handle
- Stainless steel



	Width mm	Depth mm	Total length mm	Blade length mm	Blade thickness mm	
911.8193	8.0	20.0	260.0	120.0	2.5	210

### Clip remover U-form, wide angled

- Universal usage
- For removing cover panels trims and protective caps, etc
- Bevelled ground blades
- With hanging hole
- With two component handle
- Stainless steel



	Width mm	Depth mm	Total length mm	Blade length mm	Blade thickness mm	
911.8194	16.0	20.0	230.0	95.0	2.5	150

### Clip remover Y-form, double width angled

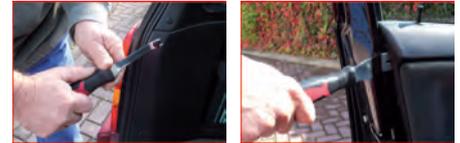
- Universal usage
- For removing cover panels trims and protective caps, etc
- Bevelled ground blades
- With hanging hole
- With two component handle
- Stainless steel



	Width mm	Depth mm	Total length mm	Blade length mm	Blade thickness mm	
911.8195	8.0	20.0	230.0	95.0	2.5	150

### Clip remover and cutting set

- Universal use due to different blades
- For removing cover panels trims and protective caps, etc
- Bevelled ground blades
- With hanging hole
- With two component handle
- Stainless steel



911.8190	5 pcs Clip remover and cutting set	2.00

consists of:

911.8191	Clip remover U-form, narrow angled, 230 mm	120
911.8192	Clip remover V form, 230 mm	120
911.8193	Clip release U-form, wide offset, 230 mm	210
911.8194	Clip release U-form, wide angled, 230 mm	150
911.8195	Clip release Y-form, double width angled, 230 mm	150