



Werkzeug und Innovation

**Tools and Innovations
Outillage et Nouveautés**

english version

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A-1880

Art.-No.: 600 003

1" Impact-Wrench with 8" Anvil

Anvil	1"
Anvillength	8"
Freespeed	4.200 rpm
Torque	2.439 Nm
Weight	10,6 kg
Airpressure	6,3 bar
Airinlet	1/2"
Noiselevel	94,9 dB



Robust and powerful 1" impact wrench with an 8" spindle and double-hammer impact mechanism. Three tightening and three loosening torques. Quicker torque buildup.

Due to its long spindle and the extremely high torque this tool is especially suited for deep and hardened screw joints in trucks and buses, construction and agricultural equipment and the specific challenges in industrial maintenance.





A-1250

Art.-No.: 600 078

3/4" Impact-Wrench

Anvil	3/4"
Freespeed	4.000 rpm
Torque	1.626 Nm
Weight	5,9 kg
Airpressure	6,3 bar
Airinlet	3/8"
Noiselevel	96,2 dB/A



Robust and powerful 3/4" impact wrench with excellent power-to-weight ratio. Large steel motor frame and forged double-hammer impact mechanism. Three tightening and three loosening torques ensure a wide range of applications. Exhaust air channeled downwards through the handle. Cold-insulated and vibration-isolated by the rubber cover on the handle. Clockwise/counterclockwise switch in the motor plate protected. Ideal for tire service centers for cars, vans, utility vehicles or for industrial applications and assembly jobs.





A-2008

Art.-No.: 600 090

1/2" Composite Impact Wrench

Anvil	1/2 "
Freespeed	8.500 rpm
Torque	1355 Nm
Clutch mechanism	Twinhammer
Weight	2,1 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	96,6 dB/A



The latest technologies and materials such as the housing made of composite materials offer an excellent power to weight ratio. With its twin-hammer impact mechanism and a 360° rotating air inlet, this impact wrench is very handy, robust and extremely powerful. Three torque settings in the clockwise direction and full loosening torque in the counterclockwise direction can be selected through a built-in power switch. Seven spring-mounted vanes ensure quick torque buildup. Exhaust air is channeled downwards through the handle. The device can be lubricated through a lubricating nipple.





A-2012 / A-2038

Art.-No.: 600101 / 600100

1/2" / 3/8" Impact Wrench (mini housing)

Anvil	1/2" / 3/8"
Freespeed	9.500 rpm
Torque	542 Nm / 434 Nm
Weight	1,6 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	91,66 dB/A



Very short and compact 1/2" respectively 3/8" impact wrench with double-hammer impact mechanism and three-level power switch facilitates assembly even in cramped spaces. Exhaust air channeled through the cold-insulated handle. Weight and design facilitate fatigue-free work even during extended applications. Three tightening and three loosening torques ensure performance-focused assembly. Ideal for work carried out on the transmission, body, brakes or other applications.





A-3112 / A-3138

Art.-No.: 600 365 / 600 366

1/2" / 3/8" Angle-Head Impact Wrench reactionless

Anvil	1/2" / 3/8"
Freespeed	7.000 rpm
Torque	244 Nm / 217 Nm
Length	341mm
Weight	1,8 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	97 dB/A



Extremely powerful angle-head impact wrench for limited-access work areas for the assembly and disassembly of rear brake calipers, gearsets, suspension struts, handlebars, drive shafts, turbochargers, exhaust work, crankshafts and cardan shafts, etc. The turbo-rotor with 7 vanes and ring hammer impact mechanism delivers its high torque reactionless! Clockwise and counterclockwise switch in the cold-insulated handle. Available in the 1/2" or 3/8" version.





B-2512 / B-2538

Art.-No.: 600 361 / 600 222

1/2" Ratchet / 3/8" Ratchet

Anvil	1/2" / 3/8"
Freespeed	180 rpm
Torque	82 Nm
Weight	1,2 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	97,8 dB/A



Powerful 1/2" respectively 3/8" air ratchet wrench with precision gearing for higher force transmission. Rubber-coated handle for cold insulation and vibration reduction. Exhaust air channeled to the rear through the handle. Speed adjustable via adjusting screw. Clockwise/counterclockwise change-over switch on the ratchet head. Robust design for the diverse requirements encountered in day-to-day workshop activities.





B-2214 / B-2238

Art.-No.: 600 213 / 600 212

1/4" Ratchet / 3/8" Ratchet

Anvil	1/4" / 3/8"
Freespeed	280 rpm
Torque	36 Nm
Weight	0,62 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	83 dB/A



Powerful and low-noise 1/4" respectively 3/8" ratchet wrench. Cold-insulating and vibration-isolating composite handle. Exhaust air is channeled to the rear through the handle. Speed can be adjusted using an adjusting screw. Clockwise/counterclockwise change-over switch in the ratchet head. Very robust and handy design for vigorous day-to-day workshop activities. Ideally suited for cramped mechanical joints in the engine compartment, on the body or for maintenance work.



B-2314

Art.-No.: 600 208

1/4" Ratchet Wrench (short version)

Anvil	3/8"
Freespeed	230 rpm
Torque	41 Nm
Weight	0,5 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	86 dB/A



Only 165 mm long the B-2314 is a very short 1/4" ratchet wrench for work in spaces with limited access. Exhaust air is channeled to the rear through the handle. The ratchet head is protected from dirt and damage by a rubber sleeve. Air supply can be regulated using an adjusting screw. This air ratchet wrench is very well suited for the tight spaces in the engine compartment, for assembly jobs and for screw connections on the body.

B-2338

Art.-No.: 600 206

3/8" Ratchet Wrench (short version)

Anvil	3/8"
Freespeed	230 rpm
Torque	41 Nm
Weight	0,5 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	87,42 dB/A



Only 165mm long the B-2338 is a very short 1/4" ratchet wrench for work in spaces with limited access. Exhaust air is channeled to the rear through the handle. The ratchet head is protected from dirt and damage by a rubber sleeve. Air supply can be regulated using an adjusting screw. This air ratchet wrench is very well suited for the tight spaces in the engine compartment, for assembly jobs and for screw connections on the body.



B-3038

Art.-No.: 600223

3/8" Ratchet Wrench (heavy-duty version)

Anvil	1/2" / 3/8"
Freespeed	280 rpm
Torque	108 Nm
Weight	1,24 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	96,68 / 96,07 dB/A



Industrial air ratchet wrench for the toughest workshop requirements. Once bought, always in use. Very high-quality, dirt-protected ratchet head with precision gearing for higher force transmission. Three lubricating nipples ensure a service life up to 3x longer in comparison to conventional ratchet wrenches. Adjustable air outlet and speed control. Air inlet rotating 360°. Excellent price/performance ratio: reliable, sustainable and extremely powerful.



C-3377 VP6 / C-3377 VP6 2,5

Art.-No.: 600 443 / 600 444

Orbital Sander with Dust Extraction

Freespeed	10.000 rpm
Stroke	5 mm / 2,5 mm
Backing plate	152mm / 6" hook and loop.
Weight	0,8 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	79 dB/A



Very lightweight, low-noise and low-vibration orbital sander with 5 mm respectively 2,5mm orbital throw, ensuring a quick and high extraction rate. The machine can be connected to a dust extraction system. It is light, sits comfortably in the hand and is ideally suited for continuous use. The surface pattern is very uniform and is suited for all types of sanding on different surfaces. The high-grade hook-and-loop backing plate perfectly complements the professional performance of the machine.

C-3672

Art.-No.: 600 483

Orbital Sander with Dust Extraction

Freespeed	12.000 rpm
Stroke	5 mm
Backing plate	152 mm / 6" hook and loop
Weight	0,8 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	84,39 dB/A



Very lightweight, low-noise and low-vibration orbital sander with 5 mm orbital throw. Can be connected to a dust extraction system. The machine sits comfortably in the hand and produces a very uniform surface pattern. This model is very well suited for all types of sanding on different surfaces. The high-grade hook-and-loop backing plate complements the professional appearance of this machine very well. Please note the excellent price to performance ratio.

C-3610

Art.-No.: 600 400

Belt sander 10mm

Freespeed	16.000 rpm
Belt size	10 x 330 mm
Weight	0,8 kg
Length	320 mm
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	94 dB/A



Robust 10 mm belt sander with 360° swivel handle and rear exhaust. Speed control built into the handle. The quick-release device simplifies replacement of grinding belts. Sealed bearings and rubber-coated cold-insulated handle for continuous and long-lasting use. Ideal for sanding, deburring, buffing and polishing of metal, plastic, fiberglass, composite materials, etc.

C-3620

Art.-No.: 600 402

Belt sander 20mm

Freespeed	16.000 rpm
Belt size	20 x 520 mm
Weight	1,2 kg
Length	430 mm
Airpressure	6,3 bar
Airinlet	1/4"
Noise level	95 dB/A



Robust 20 mm belt sander with 360° swivel handle and rear exhaust. Speed control built into the handle. The quick-release device simplifies replacement of grinding belts. Sealed bearings and rubber-coated cold-insulated handle for continuous and long-lasting use. Ideal for sanding, deburring, buffing and polishing of metal, plastic, fiberglass, composite materials, etc. Applications for tool making, mold and die production and machine building, in foundries, in plastics manufacturing and in the wood industry.

C-3535

Art.-No.: 600 435

Belt Sander 10 mm, low noise

Freespeed	18.000 rpm
Belt size	10 x 330 mm
Weight	0,7 kg
Length	305 mm
Vibration level	2m/sec ²
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	80,9 dB/A



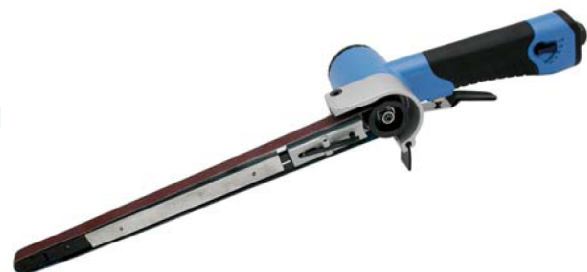
Low-noise and low-vibration 10 mm belt sander with plastic insulated handle. The handle can be turned 360° around the drive roller to adjust the optimal working position. Easy abrasive belt replacement using the quick-release device. Air supply is adjusted through a control valve. Ideal for body sanding work, quick repair of plastic, all types of sanding on tight spaces with limited access, buffing of welded seams and plastic refinishing.

C-3645

Art.-No.: 600 405

13 mm Belt Sander with Extra Long Sword

Freespeed	16.000 rpm
Belt size	12,7 x 610 mm
Weight	1,1 kg
Length	455 mm
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	95 dB/A



Extra long and high-torque belt sander. Weight reduction due to the aluminium housing. Exhaust port through the handle with built-in speed control. 360° swivel handle. The quick-release device simplifies replacement of grinding belts. Sealed bearings and rubber-coated handle for continuous and long-lasting use. Ideal for machining workpieces in confined spaces with recessed corners and rounded surfaces. Ideal for sanding, deburring, buffing and polishing of metal, plastic, fiberglass, composite materials, etc.

C-3710

Art.-No.: 600 432

Diamond Orbital Sander

Freespeed	16.000 rpm
Pad	50 mm velcro type
Stroke	3,0 mm
Weight	0,7 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	80,4 dB/A



Handy industrial orbital sander with a throw of only 3.0 mm. Designed for the quick sanding of flat and curved surfaces. Perfect for professional finishing paintwork. The angled design provides for an unobstructed view of the area to be sanded. The low air consumption save costs, while the reduced vibration and the silencer safeguard the health of the user. Compact and robust, this device is designed for a long service life and very low servicing costs.

C-3851

Art.-No.: 600 438

Finish Sander

Freespeed	2.500 rpm
Pad	32 mm sticky type
Stroke	1,5 mm
Weight	0,4 kg
Airpressure	6,2 bar
Airinlet	1/4"
Noiselevel	68,85 dB/A



Handy and very lightweight mini-orbital sander with a 1.5 mm orbital throw. Because of the angled design the user has an unobstructed view of paint defects to be sanded. The sanding surfaces are small and the finishing work is very efficient. Ideal tool for correcting dust inclusions, paint drips and so-called runs. Designed for 32 mm abrasive discs. Also available with hook-and-loop backing.



3.200 rpm / 0,6 PS

C-3735BK

Art.-No.: 600 496

Polisher/Sander in the Case

Contains	Polisher/sander
Pads:	30 mm velcro type
	75 mm velcro type
Attachements:	Waffle sponge 75mm
	Polishing sponge 75mm
	Polishing felt 75mm
	Lambskin 75mm
	Hand sanding block sticky/velcro
	Microfiber towel
	Abrasive disks 10 pieces
Noiselevel:	80,5 dB/A

Mobile paint repair kit in the case to eliminate small scratches, paint defects, orange peel, dust inclusions and paint transitions produced during partial painting. At 0.6 HP this is a high-torque tool, guaranteeing a high rate of removal. Exhaust air is discharged to the rear through the cold-insulated handle. The mini-polisher is ideal for paint repairs and is therefore best suited for auto detailing, painters and car dealerships. Please refer to the delivery kit for the extensive accessories.





C-3855

Art.-No.: 600 440

3" - Polisher with Plastic Housing

Freespeed	2.100 rpm
Pads	75mm diameter UNF thread
Length	135 mm
Weight	0,77 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	74 dB/A

Handy polisher with composite housing, variable speed control, noise reduction and exhaust air channeled through the handle. Ideal for buffing small defects and for the paint finish area. The high-torque motor guarantees quick and efficient work. The device sits ergonomically in the hand and works without much vibration. Developed for professional painters and for auto detailing.





C-3865BK / C-3865

Art.-No.: 600492 / 600 487

Angle Sander with Direct Drive

Freespeed	25.000 rpm
Pad	50 mm with thread receiver
Weight	0,6 kg
Airpressure	6,2 bar
Airinlet	1/4"
Noiselevel	74,7 dB/A



Mini-angle sander in a case with extensive accessories. The sander features especially low-vibration power transmission. The air regulator valve built into the handle is used to control speed. Gearless drive, therefore especially low-vibration power transmission. Ideal for polishing, sanding and deburring. Backing plate designed to admit commercially available attachment abrasives (e.g. 3M®).

Also available as C-3865 without case and accessories.

D-4130

Art.-No.: 600 501
Car Body Saw

Freespeed	9.000 strokes/min
Stroke	10 mm
Weight	0,6 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	89 dB/A



Professional car body saw with high cutting performance. The tool produces clean edges and features a cold-insulated handle. Ideal for the precise sawing of car body parts, pillars, profiles, for the installation of sunroofs, and also for cutting stud bolts and screw connections. Excellent price/performance ratio.

D-4135

Art.-No.: 600 519
Car Body Saw with Sound-Absorbing Tube

Freespeed	9.000 strokes/min
Stroke	10 mm
Weight	0,77 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	84 dB/A



Professional body saw with clean, high cutting performance and insulated handle. Especially well suited for tight radii and curves. Comes with exhaust tube for sound absorption. High-torque strokes facilitate quick and clean cuts even on thick materials such as stud bolts and screw connections. Very well suited for bodywork and for all metalworking disciplines.



D-4166

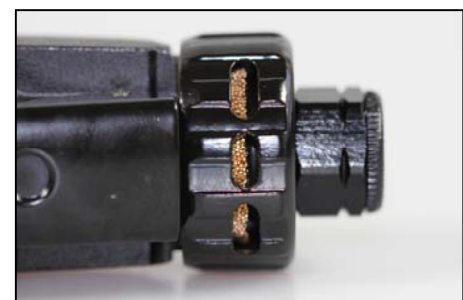
Art.-No.: 600 506

Air Saw

Freespeed	11.000 rpm
Stroke	8mm
Length	185mm
Weight	0,45 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	80,4 dB/A
Vibrationlevel	4,3 m/s ²



Small and very handy body reciprocating saw with an air inlet allowing for 360° rotation which prevents tensioning and twisting of the connecting hose when working. The very high stroke rate facilitates sawing in tight radii and curves. The powerful motor prevents getting jammed in the sheet metal and guarantees precise cuts. Handy aluminium housing with rear exhaust prevents swirling of sawdust. Ideal for auto body shops and metal construction.





D-5120ACK

Art.-No.: 600 522

Spot Annihilator Kit in Case with 3 Spare Drill Cutters

Freespeed	1.800 rpm
Weight	2,2 kg
Airpressure	6,3 bar
Airinlet	1/4"
Drills	6 mm
Noiselevel	82 dB(A)



Drill kit for the quick and convenient removal of spot welds. The patented pneumatic drill spindle feed ensures constant contact pressure. The support bracket can be pivoted 360° or removed with no additional tool needed. This means spot welds on the seam and even on inside plates can be quickly and conveniently opened without great effort. The drilling depth can be adjusted precisely with the continuously variable depth stop, preventing perforation of the second plate. The machine is delivered in the handy carrying case with three spare drill cutters. The jumbo-size bracket is available as an option.





D-5120CBK

Art.-No.: 600 523

Spot Annihilator Kit in Case with 3 Spare Drill Cutters

Freespeed	600 rpm
Weight	2,2 kg
Airpressure	6,3 bar
Airinlet	1/4"
Drills	6 mm
Noiselevel	82 dB(A)



Drill kit for the quick and convenient removal of spot welds. The patented pneumatic drill spindle feed ensures constant contact pressure. The support bracket can be pivoted 360° or removed with no additional tool needed. This means spot welds on the seam and even on inside plates can be quickly and conveniently opened without great effort. The drilling depth can be adjusted precisely with the continuously variable depth stop, preventing perforation of the second plate. The machine is delivered in the handy carrying case with three spare drilling cutters. The jumbo-size bracket is available as an option.



D-6000

Art.-No.: 600 526

3/8" Straight Drill with Keyless Chuck

Freespeed	2.500 rpm
Chuck	10 mm
Drive	clockwise
Weight	1,0 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	92 dB/A



Powerful 3/8" drill with a straight design and rear exhaust. Built-in silencer and cold-insulating composite handle make for low-noise and low-vibration working conditions. The air control valve is in the handle. The 10 mm Jacobs® high-precision drill chuck guarantees a professional result. Essential tool for every auto body shop, for metalworking disciplines or even for trade fair construction.

D-6011

Art.-No.: 600 531

3/8" Drill with Keyless Chuck

Freespeed	1.800 rpm
Chuck	10 mm
Drive	clockwise/counterclockwise
Weight	1,15 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	80 dB/A



Powerful 3/8" drill with a 10 mm Jacobs® keyless chuck. Ergonomically designed composite handle with exhaust port and built-in silencer. The tool is very well balanced, has a low net weight and produces extremely high torques. Clockwise/counterclockwise switch also available with one-hand control. For custom-fit drilling and thread cutting. Absolute standard tool for auto body shops, machine building, service and maintenance work.

D-6030

Art.-No.: 600 535

3/8" Angel Drill with keyless chuck

Freespeed	2.200 rpm
Chuck	10 mm
Drive	clockwise
Weight	1,1 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	81 dB/A



Powerful 3/8" angle drill with keyless chuck, cold-insulated composite handle with exhaust air conduction and continuously variable speed. The device has a grease nipple for the angular gear. The built-in silencer ensures pleasant noise reduction. The low-profile design makes the angle drill perfectly suitable for tight spaces. Recommended for auto body shops, metalwork and trade fair construction.

I-6600

Art.-No.: 601 059

1/4" Die Grinder

Freespeed	22.000 rpm
Collet	6 mm
Weight	0,7 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	86 dB/A



Powerful low-noise and low-vibration one-hand die grinder with 6 mm collet. Composite housing with rear exhaust to prevent the swirling of sanding dust and swarf. The air regulator is built into the handle. The high-output motor provides for high-torque speeds even in the low rpm range. The silencer built into the handle reduces noise buildup. Ideal for buffing welded seams, for auto body shops, drop forging and metalworking disciplines.

A 1/4" collet is optional available.

I-6630

Art.-No.: 601 066
Decal Remover

Freespeed	2.600 rpm
Weight	0,9 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	89,1 dB/A

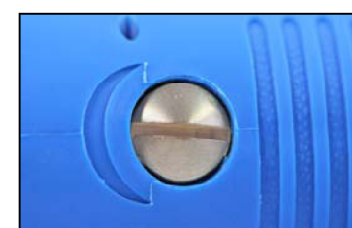
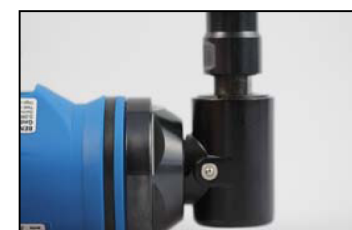


Decal remover for the removal of stickers, rally and design stripes without damaging paint. The gear ratio is especially adapted to the ZI-9120 and ZI-9120PT rubber wheels in terms of speed and torque in order to avoid damaging paintwork. Cold-insulating handle with embedded speed regulator. Exhaust air is channeled to the rear through the handle. The decal remover is also perfectly suited for the removal of adhesive residues from stick-on wheel weights on rims and so is a great tool for tire service centres as well.

I-6650

Art.-No.: 601 058
1/4" Angel Grinder

Freespeed	18.000 rpm
Collet	6 mm
Weight	0,8 kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	85 dB/A



Powerful low-noise and low-vibration angle die grinder with 6 mm collet. Composite housing with rear exhaust to prevent the swirling of sanding dust and swarf. The air regulator is built into the handle. The high-output motor provides for high-torque speeds even in the low rpm range. The gear unit can be lubricated through the lubricating nipple. The silencer built into the handle reduces noise buildup. Ideal for buffing welded seams, for auto body shops, drop forging and metalworking disciplines.



I-6645

Art.-No.: 601 057

Angel Grinder 115°

Freespeed	18.000 rpm
Collet	6mm
Length	197mm
Weight	0.8kg
Airpressure	6,3 bar
Airinlet	1/4"



Powerful low-noise and low-vibration angle die grinder with 6 mm collet. Composite housing with rear exhaust to prevent the swirling of sanding dust and swarf. The air regulator is built into the handle. The high-output motor provides for high-torque speeds even in the low rpm range. The gear unit can be lubricated through the lubricating nipple. The silencer built into the handle reduces noise buildup. Ideal for buffing welded seams, for auto body shops, drop forging and metalworking disciplines.

A 1/4" collet is optional available.





I-9315

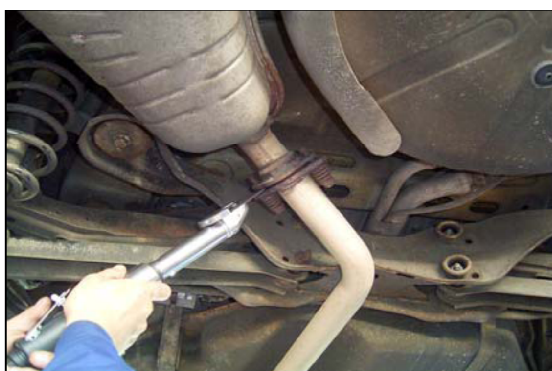
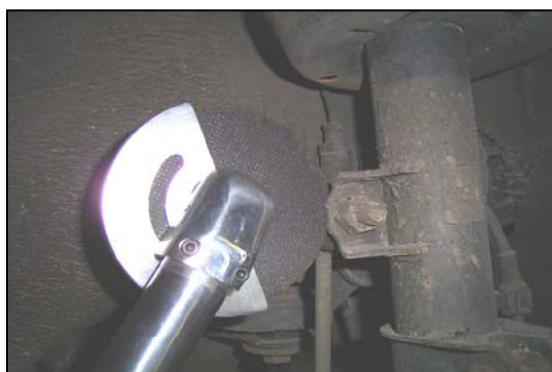
Art.-No.: 601 070
Corner Grinder

Freespeed	15.000 rpm
Torque	0,85 PS/0,63 kW
Length	375 mm
Height	45mm
Weight	1,1 kg
Airpressure	6,3 bar
Airinlet	1/4"
Cutting disks	100 x 1,0 x 10mm



Through its design the extended cutting grinder is well suited for fitters and allows mechanics to work optimally in vehicle spaces where access is limited. Particularly degraded and slipping screw connections can be easily and conveniently severed. Connecting rods and stabilizer bars, tie-rod ends, supporting joints and exhaust screw connections can be cut just as quickly as wheel houses with limited access or the screw connections of many rear axle bushings. At 0.85 HP the extended cutting grinder is the absolute frontrunner in its class and is therefore indispensable to all vehicle and auto body shops.







I-9400

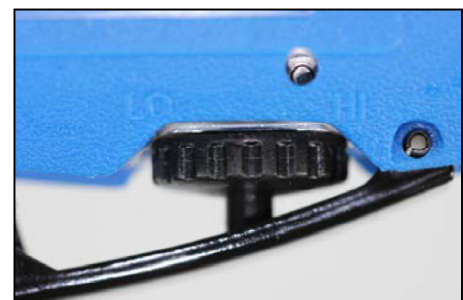
Art.-No.: 601 075

Cut-off Grinder

Freespeed	12.000 rpm
Length	375 mm
Height	65mm
Weight	1,44 kg
Airpressure	6,3 bar
Airinlet	1/4"
Cutting disks	100 x 16 mm
Noiselevel	80 dB/A



This quiet and low-vibration extended cut-off grinder is well suited for fitters and allows mechanics to work optimally in vehicle spaces where access is limited. The switchable clockwise/counterclockwise rotation means you do not have to tilt or pull back the tool in tight spaces with limited access. Also equipped with a speed control to adapt to your individual needs. Slot for standard grinding wheels (100 x 16 mm). Essential tool in every vehicle and auto body shop.



LR-022

Art.-No.: 601 305
Blind Rivet Gun

Tensile force	720 kg
Traction length	14,0 mm
Max. rivet stem diameter	3.2 mm
Weight	1,5 Kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	90 dB/A

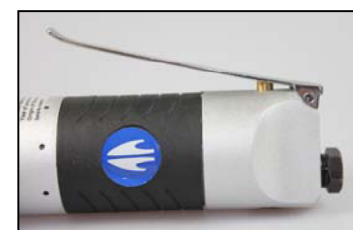


Air/hydraulic blind riveter for copper, aluminium and steel blind rivets with a diameter from 2.4 mm to 4.8 mm. Integrated container to collect spent rivet mandrels. Four different nose pieces. With hook for balancers. The LR-022 features a high degree of axial pulling force and functional safety.

MP-020

Art.-No.: 601 321
Punch and Flange Tool

Sheet thickness	up to 1,6 mm
Hole diameter	5,0 mm
Flange depth	12 mm
Weight	1,3 Kg
Airpressure	6,3 bar
Airinlet	1/4"
Noiselevel	71 dB/A



Combines a hand flange tool and hole punch in one single tool with air/hydraulic support. Ideal for jointing non-hardened body panels and for panel repairs and partial replacement with seamless transition. Also punches holes of up to 5 mm for gas metal arc welding thanks to the pneumatic/hydraulic power boost. Facilitates efficient and fatigue-free work despite one-hand operation. Quicker and less energy-sapping than hand flange tools.

NM-200

Art.-No.: 601 325

Cartridge Applicator Gun



Cartridge size	50 x 215 mm
max.content	310 ml
Weight	1,1 Kg
Airpressure	4 bar
Airinlet	1/4"



Very robust pneumatic applicator gun. Suitable for all commercially available 310 ml cartridges. Easy handling due to automatic pressure drop when trigger is released with no annoying overruns. For sealing compounds, silicone, acrylic, single-component adhesives, joint fillers, filler paste or grease in cardboard, aluminium and plastic cartridges.

Z-100

Art.-No.: 601 500

Pneumatic Vacuum Cleaner

Weight	0,5 Kg
Airpressure	2 - 8 bar
Airinlet	1/4"
Recommended hose	NW 8mm



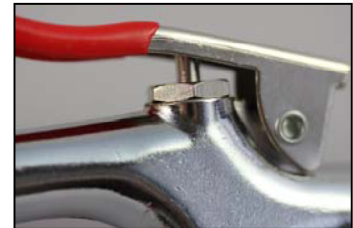
Air-powered suction device utilizing the Venturi effect. Robust metal handle for different nozzle attachments and suction hose with washable and reusable dust bag. Ideal for the safe vacuuming of sharp and hazardous objects such as glass fragments, metal filings or explosive metal dust. Often used to suck up puddles of water in car tires or to pump liquids over small vertical drops. Also used to blow-dry large surfaces and for air cooling. The delivery kit includes four different push-on nozzles, one suction hose and one catch bag.

Z-029a

Art.-No.: 602 524

Air Blow Gun

Size	11 x 6 cm
Weight	115 g
Airpressure	2,5 - 6,2 bar
Airinlet	1/4"



Especially small and handy air blow gun with ergonomic handle. Small and handy: fits into trouser pockets. Tip for safe and damage-free work. Delivery kit includes 2 interchangeable tips.

Z-030

Art.-No.: 877 411

Air Blow Gun

Size	23,5 x 7,5 cm
Weight	120 g
Airpressure	2,5 - 6,2 bar
Airinlet.	1/4"



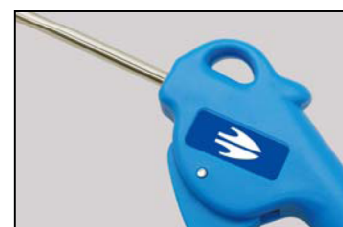
Very lightweight and convenient air blow gun made of impact-resistant plastic. Very focused and powerful air jet, hence excellent cleaning capability. Can be used in a large number of industrial applications. Suitable for continuous use due to the cold-insulated handle. 100 mm long blow tube.

Z-030-20

Art.-No.: 602 506

Air Blow Gun (extra long)

Size	63,5 x 7,5 cm
Weight	220 g
Airpressure	2,5 - 6,2 bar
Airinlet	1/4"



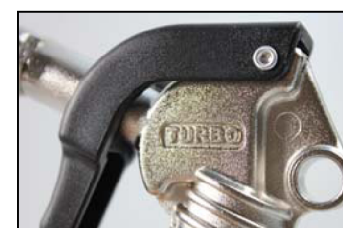
Very lightweight and convenient air blow gun made of impact-resistant plastic, with a 500 mm long blow tube to blast air even in distant and tight spaces. Due to the length and slight bend at the end of the nozzle, it reaches even spaces where access is limited. Very focused and powerful air jet, hence excellent cleaning capability. Can be used in a large number of industrial applications. Suitable for continuous use due to the cold-insulated handle. Perfectly suited for every workshop, for industrial applications and agricultural operations.

Z-040 / Z-041

Art.-No.: 877 440 / 877 441

High-Volume Air Blow Gun

	Z-040	Z-041
Blow tube length	20 mm	300 mm
Length	130 mm	380 mm
Weight	200 g	300 g
Airpressure max.	17,5 bar	17,5 bar
Airinlet	3/8"	3/8"
Noiselevel	113 dB	113 dB



High-grade, robust high-volume air blow gun in a sturdy aluminium housing for cleaning large surface areas. Up to 1,400 l/min of volume flow with the corresponding air supply.

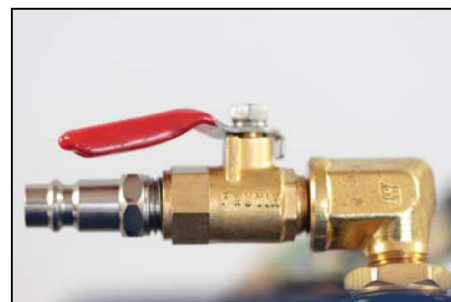


Tire-Booster

Art.-No.: 602 540

Tire Inflating Aid

Tank volume	18,9l / 5 gal
Operating pressure	2,7 bar - 10 bar
max. pressure	15 bar
miscellaneous	Gauge, safety valve, ball valve



Mounting an inflexible tire on the wheel rim can cause the tire to twist or rest imperfectly against the inner rim flange. Air injected through the valve often does not have the needed volume to remove the tire from this twisted position or to press it on the rim flange, and the air escapes unused. This is where the Tire Booster helps. Due to the wide opening of the air vent a large volume of air is blasted into the tire within a very short period. Flexible and applicable on any site since the 19-liter tank has been prefilled with compressed air. Equipped with a safety valve. Due to the variable filling pressure it is compatible with small-format tires such as those for riding mowers, and those for cars, trucks and tractors.



G-563A

Art.-No.: 600 806

Aluminium Articulated Suction Lifter Set

Material	Aluminium
Lifting capacity	approx. 80 Kg.
Content	2 pieces suction lifter set, Clamping strap



Double-articulated suction lifter in a high-quality aluminium housing. Incorporated groove in the middle for the centered application of the attached lifting belt. Especially designed for the installation and removal of window panes. Fabricated out of high-tensile plastic and aluminium. The double-articulated suction lifter is perfectly suited for materials with airtight surfaces such as glass, painted areas, metal, coated wood, granite and marble. Slightly curved surfaces can also be transported because of the movable double joints.

Safety handle for wire

Art.-No.: 700 139

Material	Impact-resistant special plastic
Weight	100g



Ergonomic gripping handle for window cutting wire made of impact-resistant special-purpose plastic. Middle pin and guide bushes made of high-grade and robust stainless steel. Precision holes for self-closing mechanism. Safe handling even with significant tensile loads. This wire gripping handle belongs in the basic tool kit of any car window specialist.

Windshield Removal Set

Art.-No.: 700 137

Set contains

- 1 pieces Square wire 50 m
- 2 pieces Gripping handles
- 1 pieces Wire insertion tool



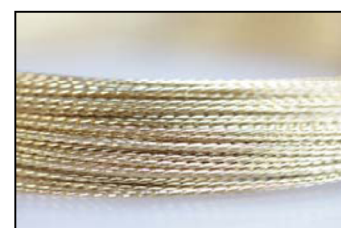
The basic kit for removing bonded car windows. Jab wire insertion tool into the polyurethane layer between window pane and body, thread square wire through the hole and cut it to the working length. Attach wire gripping handles to the wire ends. The wire's square profile facilitates smooth, precise and clean cutting and minimizes the effort expended. In addition, the ergonomic wire gripping handles make for safe handling. Expensive polyurethane moulding cutters are unnecessary. Suitable for all bonded car and truck windows.

Professional Windshield Removal Set

Art.-No.: 700 138

Set contains

- 1 pieces Square wire 50 m
- 1 pieces Piano wire 22.5 m
- 2 pieces Gripping handles
- 1 pieces Wire backstop
- 1 pieces Piercing tool

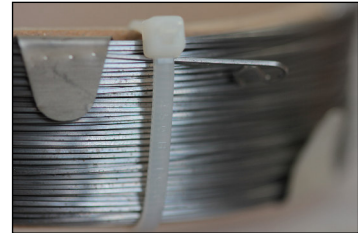


The professional kit for removing bonded car windows. Run window cutting wire with the piercing awl through the polyurethane layer between window pane and body and cut it to the working length. Mount wire backstop (interior) for deep cockpits and attach wire gripping handle (exterior). The square wire facilitates smooth, precise and clean cutting and minimizes the effort expended during the separation. The ergonomic wire gripping handle and backstop make for safe handling. Expensive polyurethane molding cutters are unnecessary. Suitable for all bonded car and truck windows.

Square wire

Art.-No.: 700 150

Material	Special-alloyed steel
Tensile strength	at least 2,400 N/mm
Delivery kit	50 m roll on cardboard spool
Weight	155 g
Dimension	0,6 x 0,6mm
Edge radius	< 0,10 mm



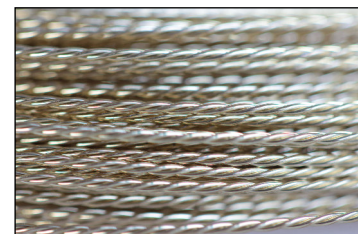
The square profile of the cutting wire facilitates smooth, precise and clean cutting even through the strongest polyurethane layers. This square wire is made of a special alloy to ensure extremely high tensile strengths of over 2,400 MPa and prevent hazardous tearing under a tensile load. Professional wire for professional window replacement.

„Golden“ String wire

twisted

Art.-No.: 700 160

Delivery kit	22.5 m
Weight	approx. 75 g



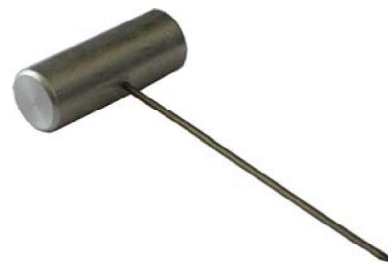
The long-established cutting piano wire braided from 3 individual wires is ideally suited for the safe removal of glued-on car windows because of its excellent sawing qualities and ease of use. This standard tool belongs in the basic tool kit of any workshop.



Needle for wire

Art.-No.: 700 140

Material Aluminium-anodized T-handle
Weight 40 g



100 mm long wire insertion tool with a T-handle allowing the user to apply the right pressure when piercing the PU adhesive. The needle made of high-grade tool steel is pointed and sharp so that it can easily pierce through the PU adhesive. The hole is designed for square wires and piano wires.

High-grade special-purpose tool that should be an indispensable part of workshop equipment.

Needle for square wire, heavy type

Art.-No.: 700 166

Material Brass knob
Weight 92 g



Professional wire insertion tool with a brass knob for applying the right pressure when piercing the PU adhesive. The needle made of high-grade tool steel is pointed and sharp so that it can easily pierce through the PU adhesive. The hole is designed for square wires and piano wires. High-grade special-purpose tool that should be an indispensable part of workshop equipment.



Wire guide

Art.-No.: 700 165

XXL format

Material	Impact-resistant plastic knob and hardened special steel
Weight	approx. 200 g

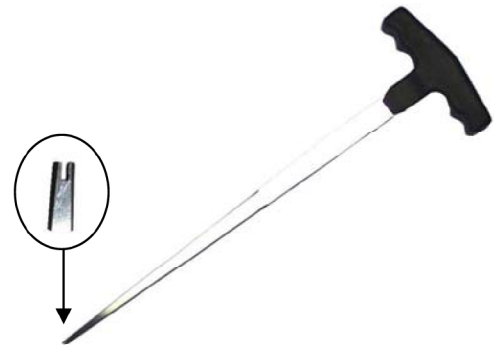


This extra-long wire backstop simplifies the running and pulling of the cutting wire in the vehicle. This tool has no alternative especially in deep cockpits and elongated windshields. The handle is made of impact-resistant plastic. The cutting wire is clamped with a locking screw. Professional tool belonging in every basic tool kit.

Piercing tool

Art.-No.: 700 167

Material	Flexible spring steel
Construction	Special guide fork through which the wire is only inserted and no longer has to be threaded.
Weight	approx. 80 g



The piercing tool is designed to be able to run the cutting wire through the PU adhesive even in deep cockpits. The tip is shaped like a special guide fork into which the wire can be easily placed. The blade is made of highly flexible spring steel and this allows the tool to adapt very well even to the various curvatures of dashboards. The right working pressure can be applied through the T-handle. This special-purpose tool belongs in the basic tool kit of any workshop.



Windshield removal tool set

Art.-No.: 700 169

Scan the beside QR code with your smartphone or tablet to watch the product video



Set contains

- 1 x Base station
- 1 x Alu safety wire handle
- 1 x Roll 50m square wire
- 1 x Piercing tool

Removing windows using conventional tools often requires considerable time and labor. With the window removal tool set the user can now for the first time remove car windows alone! Simply fasten the suction lifter on the inner pane. Then pull the cutting wire from the outside inwards through the adhesive beading and clamp it in the window removal tool. The window removal can now start because the strong return spring pulls the wire inwards and the swiveling suction lifter follows the cutting direction automatically. Even large windows can be cut out easily and conveniently by one person. The window removal kit contains: window removal tool, aluminium gripping handle, 50 m square wire and piercing tool.





UDS-80 Disassembly kit

for wheel locks

Art.-No.: 700 233

Content

- 1 pieces Socket 16.8 - 18.8 mm
- 1 pieces Socket 17.8 - 19.8 mm
- 1 pieces Socket 18.8 - 20.8 mm
- 1 pieces Socket 19.8 - 21.8 mm
- 1 pieces Socket 20.8 - 22.8 mm
- 1 pieces Socket 21.8 - 23.8 mm
- 1 pieces Socket 22.8 - 24.8 mm
- 1 pieces Socket 23.8 - 25.8 mm
- 2 pieces Drift punches



Lost your wheel rim lock key? No problem with the UDS-80 disassembly kit! With the sockets of different sizes you can open any conventional anti-theft wheel lock. The spring steel sockets are driven on the wheel lock using the drift punch and then loosened with a wheel spider. Important: The slim socket design fits even into the narrow mounting holes of designer wheel rims. Also ideal while on the road or at home since no additional pneumatic or electrical tools are needed.

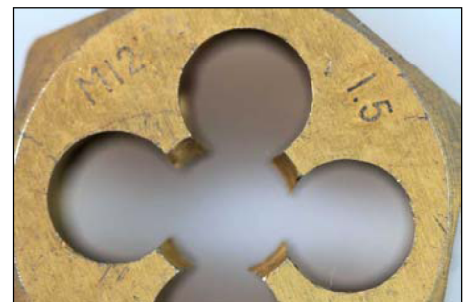




Thread Repair and Cleaning Kit

Art.-No.: 700 260

Content (each 1 piece)	M12 x 1.25 tap
	M12 x 1.50 tap
	M14 x 1.50 tap
	M12 x 1.25 die
	M12 x 1.50 die
	M14 x 1.50 die
	M4-12 tap wrench
	Thread gauge, metric
	Hollow core drill HSS 6.5 mm
	Hollow core drill HSS 7.5 mm
	Screw extractor M12/14



Whether ruptured screws, a threaded hole that is too small or a rusty or twisted thread, there is often the need to cut a thread or bring an existing thread back into shape. With taps, dies, a tap wrench and a die holder, this kit combines all the tools for cleaning or recutting male or female threads. Very well suited for wheel bolts, stud bolts, wheel nuts or wheel hub threads.





Smart-Repair-Set

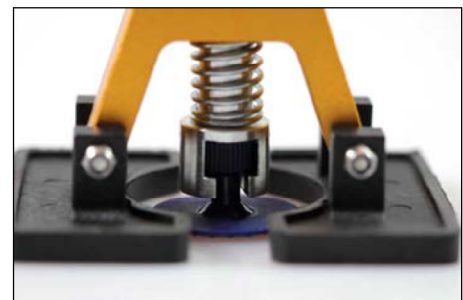
Art.-No.: 700 315

Complete kit for the quick removal of dents

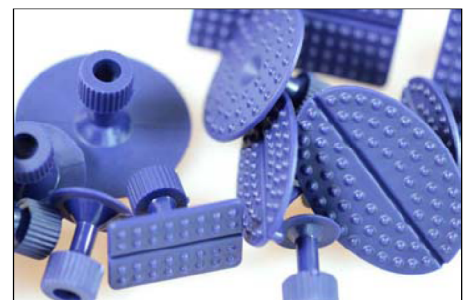
Content:

- 1 patented push-pull pliers
- 1 pull hammer
- 1 glue gun
- 12 plastic tabs in different sizes
- 8 glue sticks

Plastic tabs and glue sticks also available as accessories



SMART repair kit for painless dent repair. Dents are pulled out from the outside of the panel. The plastic tabs are glued on to the dent with the glue gun and the patented push-pull lever positioned. By smoothly pressing the pull pliers together, the dent is pulled out while pressure is simultaneously applied to the surrounding surface. This minimizes the risk of overstretching considerably. Ideal for small "shopping trolley dents". The plastic tabs are then simply broken off. A push hammer for the traditional flattening of large-surface deformations is also included in the kit. Advantages: no repainting, no write-downs, suitable for stationary and mobile application.





Reflection Board

for professional SMART repair application
Art.-No.: 700 321

Dimensions: 200 mm x 240 mm

Practical suction feet
Flexible gooseneck

Indispensable for dent tapping: the ideal addition to our mechanical SMART repair kit (Item No. 700 315). Easy to use with the practical suction feet and flexible holder. Due to the light reflection of the board on the car paint, every little dent becomes visible through the line curvature. Progress can then be checked during the dent repair process based on the changing line contour, and overstretching can be avoided or reduced in a controlled manner.



Sucker set

6 pieces

Art.-No.: 700 460

Material

Plastic

Delivery kit

6 pieces (= 1 Set)

Weight

approx. 75 g/piece



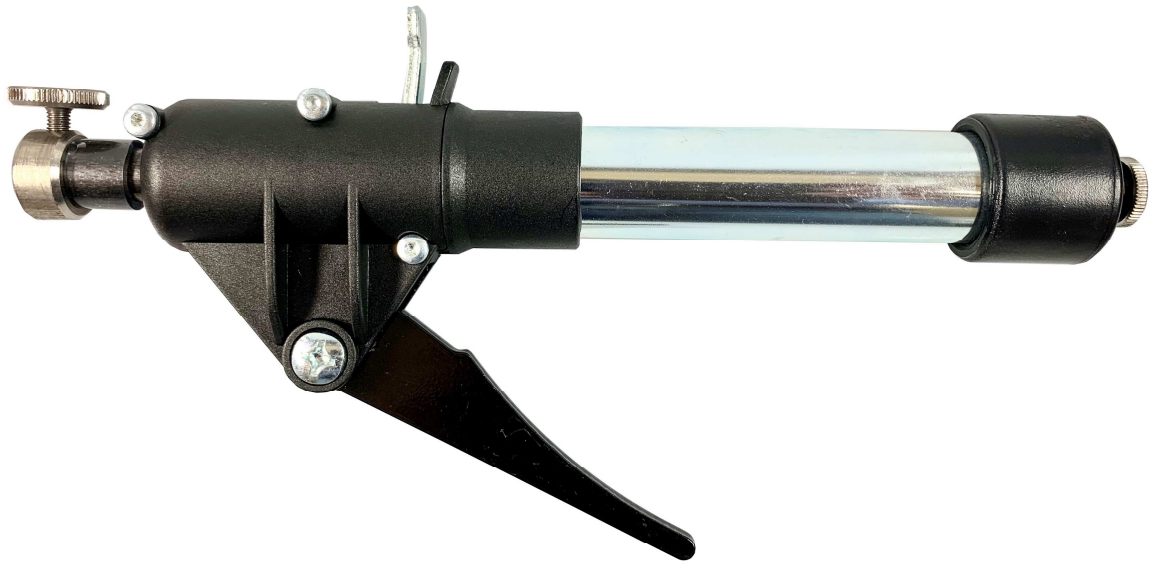
Suction and mounting lifter made of sturdy plastic and high-grade rubber suction cups. For mounting and pressing down trim moldings, window frames, ornaments, etc. Individual positioning capabilities. Contact pressure adjustable using thumb screw. Standard tool for paint shops.

Squirt Nozzle Pliers

Art.-No.: 810 098



Handy plastic pliers for the custom trimming of squirt nozzles of PU cartridges or bags. A spring holds the pliers open in the rest position. Sturdy design with serrated cutting blade and length scale. Continuously adjustable depth. Produces the required V-neck on the squirt nozzles of window adhesives and always ensures an optimal triangular adhesive bead.



Hose Clamp Pliers SZ-4000

Art.-No.: 810 080 (basic tool)

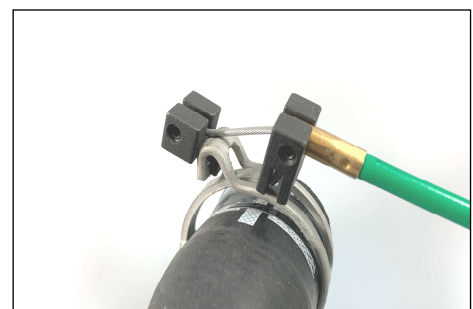
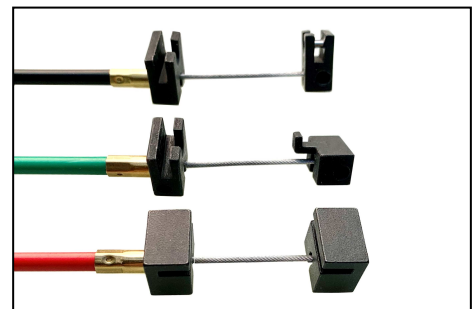
Set contains

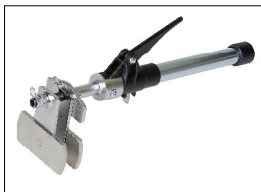
1 x cable black	Art.-No. 810081
1 x cable red	Art.-No. 810082
1 x cable green	Art.-No. 810083

The engine compartments are getting tighter and more compact. For reasons of space, the automobile manufacturers therefore increasingly rely on hose clamps with tight-fitting gripping jaws, which are difficult to open with conventional tools and hardly to reach at all in the very narrow areas.

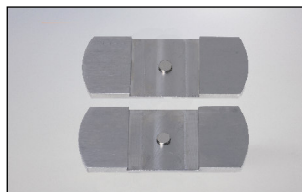
With the hose clamp pliers SZ-4000 and a suitable optional bowden cable, each hose clamp can be opened quickly.

The flexible bowden cables, each with different clamping jaws, can be plugged onto the ends of the hose clamps and opened instantly (!) without great effort.





810011 Adaptor plate no. 1



810012 Adaptor plate no. 2



Brake Piston Extractor for Front and Rear Brakes

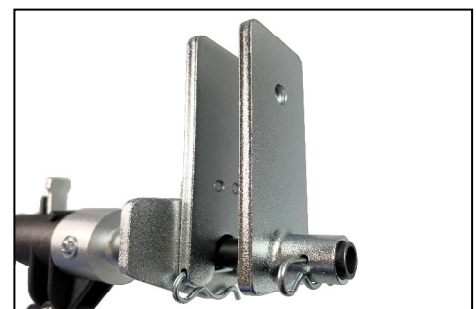
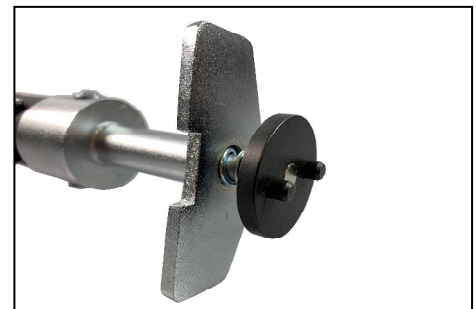
Art.-No.: 810 010

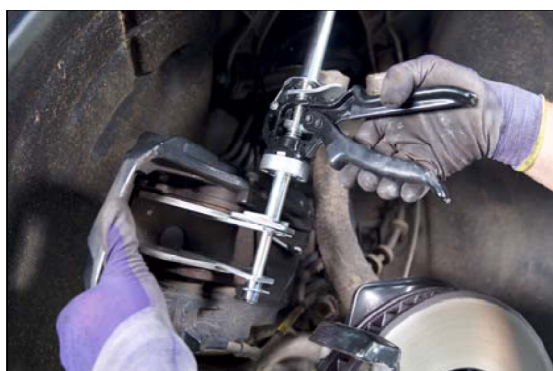
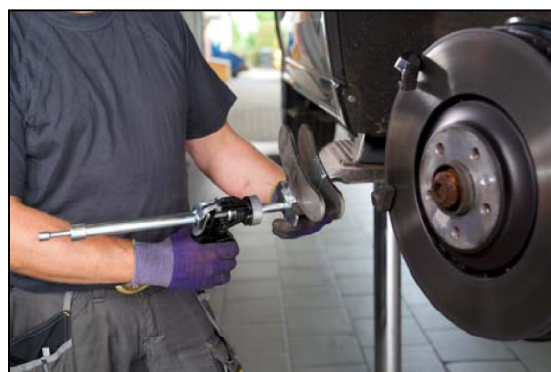
Delivery kit

- 1 extractor pliers
- 2 preload springs
- 1 set of pressure plates (front brake)
- 1 thrust rod
- 1 magnet adapter for rear brakes

Extractor for front and rear brakes in all standard cars. Suitable for swinging, fixed and floating calipers. Clockwise and anticlockwise pistons are extracted easily and without difficulty with the corresponding spring preload. Spindles with right-hand or left-hand threads and readjustments are no longer necessary! Magnet adapter for adapter plates for the easy extraction of two-pin pistons.

Optional available adaptor plate no.1 for 4 brake pistons or adaptor plate no.2 for 6 brake pistons.







Riveting Pliers in Plastic Case

Art.-No.: 810 090

Art.-No.: 810 0901 Riveting Pliers without case

Including each 10 pieces plastic rivets: 5.0 mm, 6.3 mm



Riveting pliers with two nose pieces, for fastening plastic rivets (size: 5.0 mm and 6.3 mm). For all repairs on parts with plastic rivets such as bumpers, wheel house covers (BMW), etc. The rivet head turned 90° and the narrow design of these riveting pliers facilitate the setting of rivets especially in confined areas with limited access. One can then rivet easily in wheel houses (especially in some BMW models), for example, without having to dismantle the wheels beforehand. Bolted wheel house covers that have rusted through can be replaced quickly and conveniently by means of plastic rivets.





Polyurethane Scraper Kit

Art.-No.: 810 514

27 parts in practical carrying case

Art.No.: 810 514 Polyurethane scraper kit:
1 pieces Handle, 1 pieces Multi-purpose knife,
5 pieces Blade 12 mm, 5 pieces Blade 16 mm,
5 pieces Blade 20 mm, 5 pieces Blade 16 mm/53°,
5 pieces Trapezoid blade in the dispenser

Available as accessories:

Art.No.: 810 508 10 pcs. blades 16mm/53°

Art.No.: 810 509 5 pcs. blades trapeze

Art.No.: 810 510 10 pcs. blades 12mm

Art.No.: 810 511 10 pcs. blades 16mm

Art.No.: 810 512 10 pcs. blades 20mm



Polyurethane scraper kit for the pruning of PU beads, sealing residues and toll stickers. The ergonomic 2K handle facilitates safe and high transmission of force. The special edge geometry of the scraper blades does not damage glass or paint surfaces. Different blade widths for different PU beads ensure adapted applications. The scraper blades are quick and easy to change.



Stick-On Weight Remover

Art.-No.: 877 565

Dimensions 270 x 22 mm
Weight 71 g
Packaging unit: 100 pieces

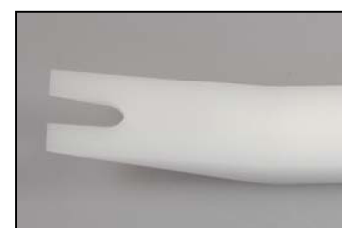


Stick-on weight remover made of high-grade plastic for the effortless removal of stick-on weights and their residues without causing damage. No scratches on the aluminium rims! In addition, diverse applications such as scraping off labels and tags. Solvent-resistant. Handle with impact point for hammers. Plastic cutting edge can be refilled to sharpen.

Assembly Wedge Tool

Art.-No.: 877 570

Dimensions 265 x 20.5 mm
Weight: 57g
Packaging unit: 250 pieces



Especially narrow version of the trim wedge tool with incorporated groove. Ideal for removing door moldings, clips, switches, controllers, etc.



Plastic Trim Wedge Tool

Art.-No.: 877 580 (30mm)

Dimensions	30 x 200 mm
Weight	65 g
Packaging unit	250 pieces



Narrow, non-abrasive 30 mm wedge made of high-grade, shatter-proof plastic. Ideal for working on trim moldings, rubber gaskets, dashboards. Because of the wedge shape also suitable for aligning car doors. The special plastic minimizes paint scratches or paint damage. Available in two different sizes depending on application.



Plastic Trim Wedge Tool

Art.-No.: 877 581 (60mm)

Dimensions	60 x 200 mm
Weight	130 g
Packaging unit	125 pieces



Narrow, non-abrasive 60 mm wedge made of high-grade, shatter-proof plastic. Ideal for working on trim moldings, rubber gaskets, dashboards. Because of the wedge shape also suitable for aligning car doors. The special plastic minimizes paint scratches or paint damage. Available in two different sizes depending on application.





Mini Plastic Wedge Tool

Art.-No.: 877 579

Dimensions 120 x 16 x 8 mm
Weight 15 g



The areas of application are mainly in the passenger compartment, to loosen interior linings, covers, small switches or high-grade chrome trims. Conventional plastic wedge tools are not so sturdy, fray and quickly become unusable. A screwdriver, on the other hand, causes scratches that the customer notices immediately.

Combined Assembly/Trim Wedge Tool

Art.-No.: 877 585

Dimensions 193 x 25 x 25 mm
Weight 72 g



The advantages of the assembly wedge tool and the plastic trim wedge tool combined in one tool. This makes it ideal for removing door moldings, clips, switches, controllers, etc. as well as for working on trim moldings, rubber seals and dashboards.



Plastic Boards (2 pieces)

Art.-No.: 877 586

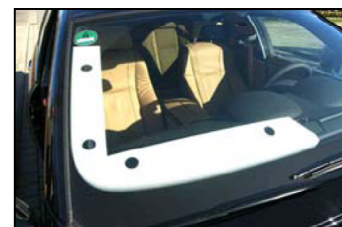
Large board	750 mm x 150 mm x 5 mm
Small board	500 mm x 105 mm x 5 mm



Other colors available starting at 500 sets.



Set of plastic boards used when removing bonded car windows. Can be delivered in various colors for orders in excess of a certain amount. Ideal protection for interior linings of pillars, the headliner and the dashboard when removing car and truck windows with piano or square wire. These sturdy plastic boards are lightweight and easy to attach, for example, between A/B/C-pillars or dashboard and window. They offer excellent protection from damage that can be caused by the sharply edged wire. Quick and safe handling with maximum benefit.



Stub Bit Holder

Art.-No.: 877 708

Scope of delivery 1 piece Stub Bit Holder



Mini-stub bit holder with 1/4" square drive for all standard 1/4" plug-in adapters. The deep square reduces the total height to the smallest dimension possible. This means that for the first time screw connections in very tight spaces can now be easily loosened or hand-tightened. The large lateral gaps allow very good access to the attachments and their convenient replacement. Ideal for screw hose clamps, interior linings, wheel houses, in short in all tight spaces. The stub bit holder belongs in every tool kit.



Spot Weld Cutter HSCo

Art.-No.: 244 010 10 x 90mm

Art.-No.: 244 008 8 x 80mm

Art.-No.: 244 060 6 x 70mm

Spot weld drill-bit with a very high-grade cobalt alloy. This gives the workpiece its extreme toughness and very good hot hardness strength. The precise edge geometry and concentricity accuracy boost the drill bit's breakage resistance and service life. This drill bit is specially designed to drill spot welds. Best suited for pneumatic, electric or battery-powered drills: an optimal drilling result is always produced.

Made in Germany



Spot Weld Cutter HSCo-TIN

Art.-No.: 244 108 8 x 80mm

Art.-No.: 244 106 6 x 70mm

Spot weld drill-bit with a very high quality cobalt alloy and TIN coating. This gives the workpiece its extreme toughness and very good heat resistance.

The precise grinding and concentricity increases the safety against breakage and extends the life-time of the drill-bit. Ideal for compressed air-, electric- or cordless drills: always a perfect drilling result.

Made in Germany



Spot Weld Cutter HSCo-TICN

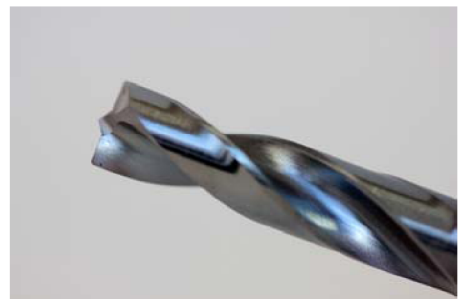
Art.-No.: 244 210 10 x 90mm

Art.-No.: 244 808 8 x 80mm

Art.-No.: 244 107 6 x 70mm

Spot weld drill bit with a very high-grade cobalt alloy and extremely durable TiCN coating. This gives the workpiece its extreme toughness and very good hot hardness strength. The precise edge geometry and concentricity accuracy boost the drill bit's breakage resistance and service life. These drill bits ensure optimum results even with higher-strength materials. Best suited for pneumatic-, electric- or battery-powered drills: an optimal drilling result is always produced.

Made in Germany



Spot Weld Cutter for Vario-Drill HSCo

Art.-No.: 404 108 8 x 44mm

Art.-No.: 404 065 8,0 - 6,5 x 44mm

Spot weld drill bit with 8,0mm or 6,5mm diameter for large or small spot welds, designed especially for Vario drills. The very high-grade cobalt alloy guarantees extreme toughness, outstanding hot hardness strength and high breakage resistance. The precision edge geometry extends service life. The multi-stage cutting geometry and the 44 mm total length are designed especially for Vario drills and ensure an optimal drilling result.



Spot Weld Cutter for Vario-Drill HSCo-TiN

Art.-No.: 404 308 8 x 44mm

Art.-No.: 404 208 8,0 - 6,5 x 44mm

Spot weld drill-bit with 8mm or 6,5mm diameter for large or small spot welds, designed especially for Vario drills. The very high-grade cobalt alloy and TiN coating guarantee extreme toughness, outstanding hot hardness strength and high breakage resistance. The precision edge geometry extends service life. The multi-stage cutting geometry and the 44 mm total length are designed especially for Vario drills and ensure an optimal drilling result.



Spot Weld Cutter for Vario-Drill HSCo-TiCN

Art.-No.: 404 408 8 x 44mm

Art.-No.: 404 209 8,0 - 6,5 x 44mm

Spot weld drill-bit with 8mm or 6,5mm diameter for large or small spot welds, designed especially for Vario drills. The very high-grade cobalt alloy TiCN coating guarantees extreme toughness, outstanding hot hardness strength and high breakage resistance. The precision edge geometry extends service life. These drills ensure optimum results even with higher-strength materials. The multi-stage cutting geometry and the 44 mm total length are designed especially for Vario drills and ensure an optimal drilling result.





Spot Weld Cutter for Spitznagel-Drill D-5120

HSCo / HSCo-TiN / HSCo-TiCN

Art.-No.: 404 608	8 x 46mm HSCo
Art.-No.: 404 609	8,0-6,5 x 46mm HSCo
Art.-No.: 404 808	8,0 - 10,0 x 46mm HSCo
Art.-No.: 404 708	8 x 46mm HSCo-TiN
Art.-No.: 404 611	8,0-6,5 x 46mm HSCo-TiN
Art.-No.: 404 809	8,0 - 10,0 x 46mm HSCo-TiN
Art.-No.: 404 710	8 x 46mm HSCo-TiCN
Art.-No.: 404 610	8-0-6,5 x 46mm HSCo-TiCN
Art.-No.: 404 810	8,0 - 10,0 x 46mm HSCo-TiCN



Spot welding cutter with different diameters and coatings specially developed for the "Spitznagel D-5120". The very high-quality alloys guarantee extreme toughness, utmost resistance to hot hardness and increased resistance to breakage for every type of application. The precision bevel extends the service life. The phase sharpening and the 46mm total length are specially designed for the Spitznagel-Drill D-5120 and ensure the TiCN drills even with higher-strength materials for an optimal drilling result.





Solid Carbide Spot Weld Cutter 3 Flutes with Multilayer Alloy

For Spitznagel-Drill D-5120ACK:	Art.-No.: 404725
For Vario-Drill:	Art.-No.: 404730
For Spotle-Drill:	Art.-No.: 404735 on demand



Solid carbide spot weld cutter for ultra high-strength sheet steels (Usibor) which are used, for example, in frame cross and side members but also in part in sills or A/B-pillars of some models of Audi Daimler/Chrysler, Porsche, VW, BMW, Volvo, Peugeot and many others. For all higher-strength and ultra high-strength sheet steels with a tensile strength of 450 N/mm² – 1,580 N/mm² (DC04 (St 14), bake hardening to martensite phase steels). The multilayer coating was developed with an integrated cutting oil that combines all the advantages of conventional TiN, TiAlN and TiCN alloys. Made in Germany





Solid Carbide Ball Nose Milling Cutter for the I-9209 Laser Grinder

Art.-No.: 244 900

Solid Carbide Ball Nose Milling Cutter 6 x 50 mm



Solid carbide ball nose milling cutter with cross toothing for high cutting capacity. Suitable for high-strength and higher-strength sheet steels. The special cross toothing prevents the burr from catching or wandering in the sheet steel. Elevated high-temperature wear resistance and excellent toughness because of the special cemented carbide. Especially suited for the I-9209 laser grinder to open laser welds.



Sanding belts

for 10mm and 20mm belt sanders

ZC-1040 (Art.-No.: 700 117) 10x330mm grit 40
ZC-1060 (Art.-No.: 700 128) 10x330mm grit 60
ZC-1080 (Art.-No.: 700 126) 10x330mm grit 80
ZC-1120 (Art.-No.: 700 129) 10x330mm grit 120

ZC-2040 (Art.-No.: 700 201) 20x520mm grit 40
ZC-2060 (Art.-No.: 700 206) 20x520mm grit 60
ZC-2080 (Art.-No.: 700 202) 20x520mm grit 80
ZC-2100 (Art.-No.: 700 203) 20x520mm grit 100

Aluminium oxide sanding belts on tear-resistant cloth backing. Suitable for all established belt sanders with spring tension and 10 mm or 20 mm belt width. Ideal for SMART repairs, bodywork or metal sanding.



Sanding discs

for all sanders with Roloc™ fastening

ZC-3000 (Art.-No.: 700 207) fleece disk, brown, 50mm
ZC-3005 (Art.-No.: 700 208) fleece disk, blue, 50mm
ZC-3010 (Art.-No.: 700 209) sanding disk grit 80, 50mm

Grit and fleece sanding discs with Roloc™ fastening. For smoothing metal objects and improving surface structure. Ideal for the removal of tempering colors, secondary burrs and for the quick and efficient reduction of surface roughness. The finer the fleece, the more uniform the surface. Corrosion resistance is also increased. Fields of application: SMART repairs, bodyworks, paint shops, metalworking, etc.



3M® Bristle Disc brush wheels

for Roloc™ fastening

ZC-3050 (Art.-No.: 877 523) green (hard), 50mm
ZC-3051 (Art.-No.: 877 524) white (soft), 50mm
ZC-3052 (Art.-No.: 877 525) yellow (medium), 50mm

The Bristle Disc is used on angle sanders to remove rust, paint, adhesive residues and surface contamination. It is suitable for steel, stainless steel and non-ferrous metals. The Bristle Disc has the abrasive ceramic grain Cubitron™ for thorough and gentle surface conditioning with uniform material removal. Minimum contact pressure is already enough to achieve very good results. Replacement is quick and easy due to the Roloc™ fastening. The different grains from K 50 to K 120 are color-coded for quick and correct assignment. Assembly without any additional backing plate on almost any commercially available angle sander up to a



Backing plate for C-3366/C-3672

Art.-No.: 602 569

15 holes for dust extraction 152mm (6")

ZC-3363

medium/hard, velcro type

Very high-quality 152-mm backing plate with 15 holes to be used on devices with dust extraction. Also suitable for FESTO when combined with the enclosed adapter and spacer washers.



Tornador TS-21

Art.-No.: 601 600

Polishing sponge for PH-21

152mm (6"), velcro type

Honey comb structure

Tornador TS-21 polishing sponge for the PH-21 polisher. The specially made sponge foam ensures a very high level of durability even after extended use. This means polishing performance is very consistent. Because of expansion the incised honeycomb structure facilitates enlargement of the polishing surface and hence quicker achievement of the desired result. The honeycomb structure also reduces heat development on the surface and ensures better distribution of the polishing compound on the sponge surface.



Backing plate for Tornador PH-21

Art.-No.: 601 749 / 601 749b

152mm (6") or 127mm (5")

152mm (6"), velcro type

127mm (5"), velcro type

Pad for electrical polisher Tornador PH-21 equipped with a special thread. Available in 6" and 5".



Pads for C-3710

screwable, different sizes

ZC-3710 (Art.-No.: 3710041) 50mm extra ordinary
strong Velcro type

ZC-3711 (Art.-No.: 3710042) 50mm stick type

ZC-3712 (Art.-No.: 3710049) 30mm extra ordinary
strong Velcro type

ZC-3713 (Art.-No.: 3710050) 75mm extra ordinary
strong Velcro type

Extra ordinary robust 50mm pad with strengthened
plate for sanding accuracy and durability. Equipped with extra
ordinary strong velcro surface. (except ZC-3711)



ZC-372X

Finger Pad for C-3720

ZC-3720 (Art.-No.: 3720038) Velcro type, thick

ZC-3721 (Art.-No.: 3720039) Velcro type, thin

ZC-3722 (Art.-No.: 3720040) Stick type

Replacement finger-pads for C-3720



ZC-3723 / ZC-3724

Art.-No.: 3720082 / 3720083

Finger Pad for C-3720/C-3720XL
Speck Dust Remover Pad

Replacement-finger, special designed for C-3720.
To remove speck-dust with usual 30mm sanding paper.





ZC-3734/3735/3736

Pads for C-3735 Polishing set

ZC-3734 (Art.-No.: 3734099) 30mm Sticky type

ZC-3735 (Art.-No.: 3735099) 30mm Velcro type

ZC-3736 (Art.-No.: 3735098) 75mm Velcro type



Replacement-pads, specially designed for C-3735.
Suitable for 30mm mini-sanding-pads and all 75mm pads
like polishing sponges, lambskin- and felting pads.

ZC-3737/3738

Sponges, velcro type

ZC-3737 (Art.-No.: 3734098) 75mm Waffle sponge

ZC-3738 (Art.-No.: 3734097) 75mm Polishing sponge, soft



Picture shows ZC-3737 waffle sponge 75mm

Replacement sponges for C-3735 polisher all other
items equipped with a 75mm velcro-type pad. Absolutely
recommended for high-grade polishing results.

ZC-3739

Art.-No.: 3734096

Lambskin Pad, Velcro type

ZC-3739 75mm Lambskin Pad



Replacement lambskin-pad for C-3735 polisher all
other items equipped with a 75mm velcro-type pad. To
apply the surfaces with polish. For example anti-weathering
or anti grey-haze.

ZC-3740

Art.-No.: 3734095

Felting-Pad / Velcro type

ZC-3740 75mm Felting-Pad



Replacement Felting-Pad for C-3735 combined polisher and sander respectively for all 75mm velcro-pads.

ZC-3745

Art.-No.: 3735097

Sanding-Block for mini-sanding-pads

ZC-3745 30mm sanding block with extra ordinary strong velcro surface on one and stick type surface on the other side



Very useful sanding-block for paint-finishing application 30mm diameter suitable for usual mini-sanding-pads. Because of the dual surface both types - stick-on and velcro- could be used.

Pad for C-3851

Art.-No.: 877 522 / 877 521

screwable, 30mm

ZC-3800 Stick-type.
Suitable for wet-grinding

ZC-3805 Multi-surface-type
fits velcro and stick-type
papers.
(not recommended for
wet-grinding)



Abbildung zeigt ZC-3805 30mm Mikroklett

Replacement-Pad, 30mm for C-3851.
Available with two different surfaces.

Pad for C-3851

Art.-No.: 877 528
screwable, 50mm

ZC-3804 sticky type



Optional 50mm pad for C-3851.

Pad

Art.-No.: 602 557
to fit 3M®-discs with ROLOC™-thread
and optional drill adapter

ZC-3840 50mm type



Pad, fitting 3M®-sanding-discs with ROLOC™-thread.
Suitable e.g. on C-3860, C-3865, C-3868 and other.
Optional available with drill adapter (6mm) without extra charge.

Pad

Art.-No.: 700 193 / 700 1931
passend für 3“-Polierer C-3855

ZC-3855A 75mm velcro type
(male thread)

ZC-3855 75mm velcro type
(female thread)



Replacement pad for C-3855, screwable. Until year of manufacture 2014 for machines with male thread, from 2015 on for machines with female thread.
75mm velcro type

ZD-1011

Art.-No.: 602 565

Auto Drill Chuck, 10mm



Suitable for several drills.

ZD-1015

Art.-No.: 5120 048

Standard arm

for D-5120 Spitznagel-Drill



Replacement arm for D-5120 Spitznagel-Drill

ZD-1016

Art.-No.: 5120 090

Jumbo arm

for D-5120 Spitznagel-Drill



Jumbo arm for D-5120 Spitznagel-Drill.
Created to fit extra ordinary deep spots.

Sawblades suitable for SIG, bimetal type

5 pcs. set each size

ZD-2018 (Art.-No.: 235005) 18 teeth 5 pcs. set
ZD-2024 (Art.-No.: 235002) 24 teeth 5 pcs. set
ZD-2032 (Art.-No.: 235003) 32 teeth 5 pcs. set

Suitable for all air-body-saws needing the fin, especially SIG-saws. The saw blades are made out of high flexible bi-metal with a special teeth heat-treatment. These saw blades ensures a accurate and smooth cuts.



Sawblades, standard, bimetal type

5 pcs. set each size

ZD-3018 (Art.-No.: 602 520) 18 teeth 5 pcs. set
ZD-3024 (Art.-No.: 602 521) 24 teeth 5 pcs. set
ZD-3032 (Art.-No.: 602 522) 32 teeth 5 pcs. set

Suitable e.g. for D-4130, D-4135, D-4166
The saw blades are made out of high flexible bi-metal with a special teeth heat-treatment.
These saw blades ensures a accurate and smooth cuts.



Cut-off wheels ZI-9300 for I-9315 corner grinder

Art.-No.: 915010

ZI-9300 cutting disks 100 x 1,0 x 10mm

Cut-off wheel for pneumatic grinders. This wheel is reaching difficult to access areas. Brilliant use for thin steel sheets. Also suitable for high strength metal sheets (Usibor), stainless steels, as well as for thin-walled aluminium sheets.



Suitable for I-9315 „corner grinder“.
1 Set contained 25 pcs. cut-off wheels 100mmx1mmx10mm



ZI-9120 Eraser pad



ZI-9121 Adapter (optional)
Art.- No.: 700 728



ZI-9120PT Eraser pad

ZI-9120 | ZI-9120PT Eraser Pad for stripping tool I-6630

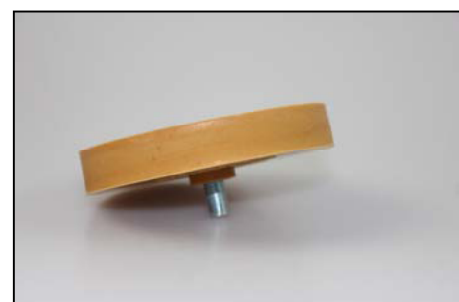
Art.-No.: 700 726 / 700 727

The new design ensures a much better result.

The optional available ZI-9121 Drill-Adapter enables every drill to use the eraser pad.



The original! The rubber wheel with a gentle touch. For the removal of adhesive residues, stickers and large markings without damaging the paint. In conjunction with our I-6630 pneumatic decal remover with its maximum idling speed of 2,600 rpm at 6.3 bar, the gentle serrations have proven their worth a million times over. Using the ZI-9121 adapter the sticker and decal remover can even be operated with a drill (max. 2,600 rpm). Also ideal for removing residues of stick-on weights on aluminium rims and hence also perfectly suitable for tire service centres, paint shops and workshops



Cables for SZ-3000 Hose-Clamp-Pliers

Art.-No.: 810077 (*)	(red) for low profile spring band clamps
Art.-No.: 810078 (*)	(black) for standard spring band clamps
Art.-No.: 810079	(blue) for MAO spring band clamps

(*) = Included in SZ-3000

Create your personal demand SZ-3000 hose-clamp-pliers by adding special cables.



Air adaptor for several pneumatic tools

ZZ-1000 Art.-No.: 603 001	1/4" male
ZZ-1001 Art.-No.: 603 002	1/4" female
ZZ-1002 Art.-No.: 603 003	3/8" male
ZZ-1004 Art.-No.: 603 004	1/2" female

Extra ordinary robust brass type. For special requests also available in steel.



ZZ-1005 Service Adaptor Art.-No.: 603 005

1/4" male

No wrench needed



ZZ-1020 Angle Air Regulator 1/4"

Art.-No.: 602 533

Especially for use at Tornador black Z-020 (S).
Using this Angle-Air-Regulator the cleaning gun can be applied
to every workbench or desk.



Mini oiler with screwfiller neck

Art.-No.: 602 510 / 602 511

ZZ-1031	1/4" type
ZZ-1032	3/8" type

Comfortable mini-oiler to prevent damages on
pneumatic tools due to leak of oil. Simply install between the
tool and the air-hose.
Suitable for every air-tool with 1/4" or 3/8" air-inlet.



ZZ-1033 Air regulator 1/4"

Art.-No.: 602 532

Universal air-regulator to decrease the air-pressure.
Also suitable to regulate the free-speed on some pneumatic
tools.



ZZ-1034 Swivel connector 1/4"

Art.-No.: 602 526

Useful swivel-connector to be installed directly at the air-tool. Relieves applications in tight areas. 360° turnable.



ZZ-1050 Re-Coil-Hose

Art.-No.: 602 523

Measurement 8,0 x 12,0 mm
max. length 10 mtr.
Connectors 1/4" male-adapter

1/4" female-adapter-clutch

High-grade re-coil-air-pressure-hose, ready to use. Equipped with anti-break-off for professional and industrial demands.



Mini-Cartridge-Grease-Gun

Art.-No.: 602 535

Compressed air machines, like for example impact wrenches or corner grinder can be greased easily and quick with this mini-cartridge-grease-gun.

To grease the daily used compressed air machines.





Plastic connector tips, 12 pcs.
for auto-dent repair kit 700315

Art.-No.: 700 316

Plastic connector



Suitable for article 700315 auto-dent repair kit

Glue rod, 8 pcs.
for auto-dent repair kit 700315

Art.-No.: 700 317

Glue rods



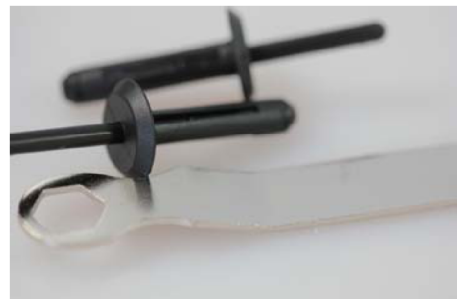
Suitable for article 700315 auto-dent repair kit

Plastic Pop Rivet

Art.-No.: 810 091 / 810 092

810091 Plastic pop rivet 6,3mm (50 pcs.)

810092 Plastic pop rivet 5,0mm (50 pcs.)



Suitable for article 810090 Plastic-Rivet Pliers

General Business Terms and Conditions (AGB), as of January 04, 2016

Scope

These general business terms and conditions apply to all contracts, deliveries and services between the Bendel Werkzeuge GmbH & Co. KG company (hereinafter referred to as Bendel Werkzeuge), (, (Local District Court Lüneburg, Commercial Registry (*HRA 200522*) and its customers, and any commercial or self-employed relationship in connection with the customer. Any amendment of and/or additions to the general business terms and conditions must be confirmed specifically with a written statement by the Bendel Werkzeuge company. This also applies to any agreement setting aside the written form requirement.

Fictitious claims of commercial business or self-employment

Bendel Werkzeuge exclusively supplies to commercial businesses and self-employed persons, and explicitly does not supply to consumers within the meaning of Art. 13 BGB [German Civil Code]. If the commercial use of the purchased goods or the status of a commercial business or self-employment are claimed under false pretences, the customer shall not be entitled to claim his legal status as a consumer.

In such cases, Bendel Werkzeuge explicitly reserves the right to contest such contracts on the grounds of fraudulent misrepresentation.

Possible consequences of returned goods:

In case of a valid return, any payments received are to be credited less any already used portion (e.g. compensation for use). If the value of goods has been diminished in any way, reparation for lost value may be demanded. This is not a valid claim if the decline in value is a result of an examination in a way as could be expected during an in-store evaluation. Generally the compensation for value may be avoided by not commencing to use the goods as an owner would, and to avoid any action that might lessen the value of the goods.

Offers/Prices/Running Accounts

All offers are subject to change. The prices stated are net-prices (unless stated otherwise) and are calculated with the addition of the mandatory value added tax. Bendel Werkzeuge company reserves the right to limit the amount of their items per delivery to a customary amount. If so desired we can arrange the delivery of the goods via a shipping company of our choice. If no other agreements have been made, the shipping/availability terms are ex warehouse. We will keep an account for our customers. Running account agreements as described in common commercial law apply. Payments will be applied to the oldest open invoice.

Conditional Sales/Attachment

Bendel Werkzeuge will retain title to all goods delivered until such time of complete payment for all existing claims resulting from the business transaction. The most current outstanding balance is always applicable as long as we carry a running account for you. The conditional sales extend to the finished product resulting from any possible processing of our product. In case of further processing, combination or mixing of our goods with other materials, we gain the title to the thereby resulting new products to the extent/ratio of the value of our goods to the other materials. Return of goods is replaced in that case by the customer's orderly warehousing of the goods at no cost to us. The buyer may sell our conditionally sold goods in regular commercial transactions or use them in manufacturing only as long as payments are up to date or payments have not been seized. If the buyer should sell the goods delivered by us – regardless of condition – he surrenders any thereby developing claim to payment – as the case may be, in the amount of the shared title value on our part – at that time, including any ancillary rights towards his customer. The customer has the right to collect on any claims surrendered to us until such time as to where we object for due reason. Bendel Werkzeuge company reserves the right to demand that the third party payee be informed about our partial rights to title, and furnish the information and documents necessary for collection of inquiry data immediately. Pledging or security transfers for our retained goods are prohibited. If conditional sales goods by Bendel Werkzeuge company should be subject of a seizure we are to be informed immediately and a copy of the bailiff's return statement must be included. The bailiff must be informed immediately about our share in title of the articles to be seized. Any costs resulting from appeals by the third party will be the responsibility of the buyer. We commit to release granted securities upon the request of the customer to our preference, as long as the value of the securities exceeds the claims by more than 25%.

Delivery times

As a rule we reserve the right to prior sale. Partial deliveries are acceptable, as long as no other terms have been agreed upon beforehand. If there are no written terms of delivery otherwise, the fulfillment of the order will be in the sequence of the purchase order.

Warranty and Claims

If materials delivered should show obvious material or production errors, which may include transportation damage, a written claim must be sent to us or the shipping company commissioned by us immediately. Complaints concerning incomplete and/or incorrect deliveries charges or reproves for covered defects have to be received within 8 days of receipt of goods at our facility in writing. Please make sure to note the regulation concerning reproves according to § 377 HGB, paragraph 377, German commercial law. Warranty of 12 months from date of delivery by Bendel Werkzeuge company is guaranteed. It is our choice initially to repair or replace in case of deficiencies in the goods delivered. For evaluation, the goods are to be sent free of charge to us, i.e. no shipping costs to us. In case of a rightful claim, we will resend the goods to you free of charge as well. If the repair should not be successful, or the replacement goods are also deficient, you may return the goods for a complete refund of your purchase cost or keep the goods and discount the purchase price. The terms concerning compensation for use covered under "consequences of returned goods" are also valid in case of return because of quality claims. Consumable parts are not covered by this warranty. The warranty claim is forfeited if tools fail because of improper use or overstrain because of devices (pipes or extensions), or because our user guide instructions were not heeded. The buyer must be able to furnish proof of purchase during the warranty period.

Compensation for damages

Further claims of any kind, especially claims for damages that did not occur to the delivery item itself, are excluded completely, unless the Bendel Werkzeuge company acted intentionally or grossly negligent or the company declared a special assured condition in a written statement. These special conditions may not be deduced from brochures or illustration in other media, even that of the Bendel Werkzeuge company, but must be explicitly confirmed in writing by us. The warranty for intentional acting of employees/aids and legal representatives is excluded. Printed material and data media of all kinds, our logo, brochures, catalogs, price lists, individual images, descriptions, data media and other media of any kind will always remain the property of the Bendel Werkzeuge company. We also claim, to the full extent of the law, intellectual property rights for their contents. Our logo, offers, brochures, catalogs, price lists, images, descriptions, data media and other media, like depicted for instance in the Internet and e-mail traffic, may not be copied or made available to third parties without our written permission.

Images, dimensions, weights and technical data

Images, dimensions, weights and technical data are only approximations. We also retain the right to replace the depicted and described products with like kind products in case of delivery delays by the manufacturer or other discrepancies. We reserve the right to change without notice all technical data for the purpose of product maintenance.

Payment terms

Deliveries are exclusively prepaid and shipped immediately after receipt of payment. Payment may also be made as cash on delivery for an additional fee within the delivery area of the Federal Republic of Germany. Assuming proper creditworthiness, delivery may also be done as debit request or on account. We reserve the right to request appropriate insurance services at our expense. We insist on reserving the right to reject this delivery variant – without stating cause. In that case the customer is no longer bound by the purchase contract.

Liability and secondary obligations

Advice and information about the use of our delivery items will be given to the best of our ability. We explicitly exclude all liability for use, because responsibility for determining usefulness and specific use of our product rests with the customer.

Data protection

All data relating to personnel/persons is handled strictly confidentially. Data necessary for the transaction of business is stored and passed to shipping companies during order processing if necessary. Your documents are protected during data processing under full consideration of the law.

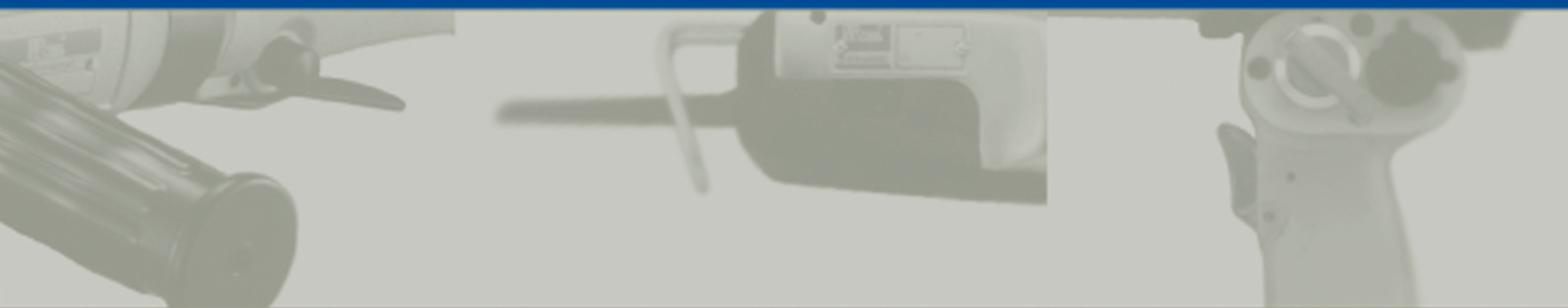
Jurisdiction

Place of performance for delivery and payment is the seat of the company Bendel Werkzeuge GmbH & Co. KG. In legal disputes arising from a contractual relationship with merchants, legal persons under public law or public special assets the place of court is exclusively the responsible court at the seat of Bendel Werkzeuge GmbH & Co. KG, unless otherwise expressly determined by the law.

Final remark

If the nullity or illegality of individual contractual provisions, including through legislative amendment is found by a court of, the legal validity of the remaining terms and conditions shall not be affected.

This terms and condition are a translation of the German version. It's being understood that in case of discrepancies between the two versions, the German text shall prevail.



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