

proGlass®

EDITION 2014/2015

AUTO GLASS TOOLS & ACCESSORIES

ProGlass means „for glass“ or „professional products for glass“ – this notion guided us when the company was established in the year 2002 and determines all our action since more than a dozen years.

Our product range is orientated to the company working in auto glass business. No matter if it is a small garage or body-shop, the authorized dealer, the auto glass professional or the car building industry and their component suppliers. In all those fields our tools are successfully used.

You will find in our range all tools, machines, accessories and consumable products for the replacement and repair of auto glass.

Further information at: +49 (0) 7023 / 90013-0 or www.proglass.de



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IMPRINT

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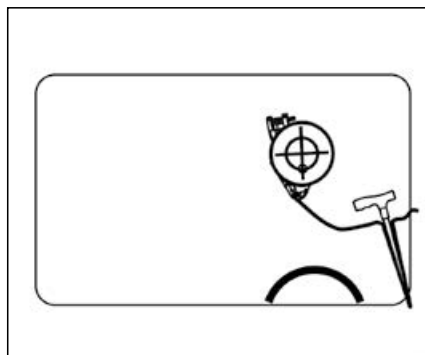
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Wire Cut-Out Technology

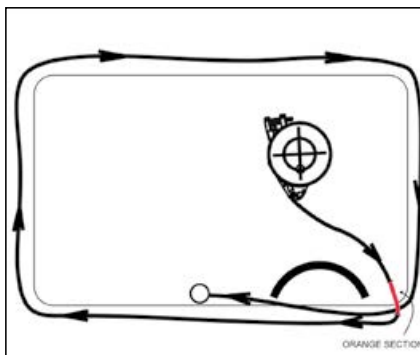
The SPIDER is a revolutionary new device for the removal of bonded windscreens and other vehicle glasses. It works without any cutting blades and it does not use a metal wire. A specially designed fibre line is used to cut through the adhesive bead. The high tensile strength cutting line reaches a similar performance as conventional metal cutting wires. But at the same time it is so soft and flexible that damages to the vehicle's paint or sensitive surfaces of the interior can be excluded completely. Furthermore, the cutting line can be used several times; usually you will be able to cut out 4-5 windscreens with one piece of cutting line.



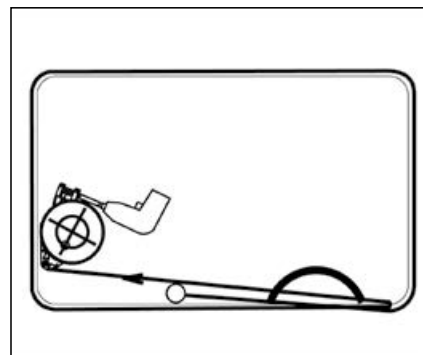
Thanks to the ingenious design of this small and handy device, it only requires four different positions to completely remove a windscreen. Further information on the cutting process can be found on the back side.



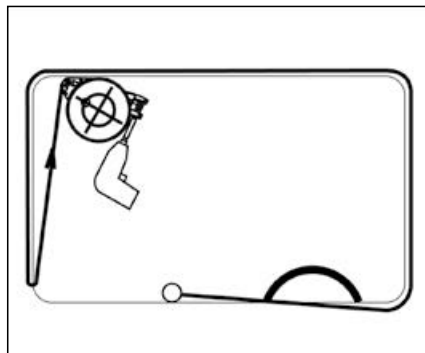
PREPARATIONS:
Pierce the line from inside to outside with the threading tool,...



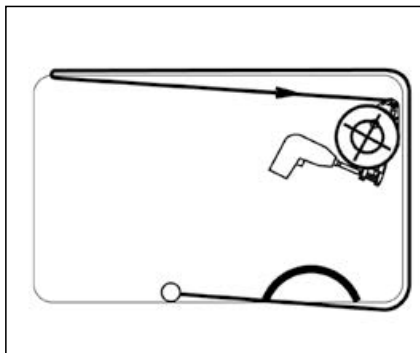
...guide it around the glasses edge and secure it on the outside.



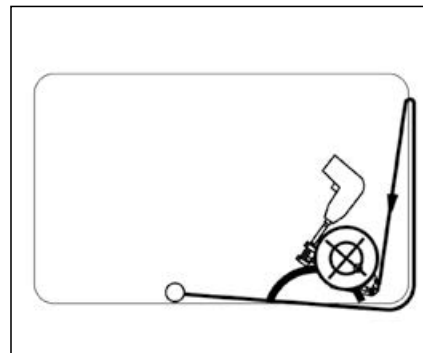
STEP 1:
Cut the adhesive bead from the starting point to the bottom right corner.



STEP 2:
Continue cutting the right A-pillar upwards until you reach the top right corner.



STEP 3:
Continue cutting across the roofside to the top left corner.



STEP 4:
Cut the left A-pillar downwards to the starting point.

■ WSP-001K


**Removal Device SPIDER 001S
complete kit in plastic case**
Patent pending

 German utility patent
No. 20 2012 009 378.9

Kit contains:

- 1 SPIDER cutting tool
- 1 cutting line threader (item no. DST-757-WSP)
- 1 dash protector (item no. DBP-1824-WSP)
- 1 bit holder
- 1 cutting line install tool (item no. MS-180-WSP)
- 1 cutting line SF, 91 m (item no. SF-300)
- 1 anchor suction cup (item no. AS-115)
- 1 extended flexible bit holder (item no. FBH-190)
- 1 instruction manual

Additionally needed accessories:

 High-torque variable speed cordless drill, e.g.
Panasonic cordless drill 14.4 V (item no. AKS-144)

*quicklink to the
product video*




■ **SF-300**

**Spider cutting line SF, 91 m
14 pre-marked lengths at 6.5 m on plastic spool**

Special line made of high-tensile, braided polyethylene fibre. The cord has pre-marked lengths which are matched for using it with the Spider cutting tool.

Tensile strength: 110 kg (1078 N)



■ **AS-115**



Anchor Suction Cup Ø 115 mm for WSP-001K

The vacuum cup with clamp screw is used for the secure fixation of the loose cord end when working with the SPIDER removal system.



■ **DBP-1824-WSP**



Dashboard Protector for WSP-001S/K

Clear transparent Dashboard Protector from the SPIDER kit as a single/replacement part.

Dimensions: 230 x 240 mm



■ **DST-757-WSP**



Cutting Line Threader Length: 340 mm

Cutting Line Threader from WRD Glass Tools with a flexible blade made of spring steel. Just lay the Spider cutting line over the notched tip and pass it through the polyurethane bead by pushing the tool from the inside to the outside.

Length: 340 mm

■ MS-180-WSP Cutting line install tool



A handy install tool for the SPIDER removal system with two different shaped ends. The notch on the one side allows you to lay the cutting line in difficult spots like e. g. at the bottom corners of many wind-screens. The eye on the other side is suitable for laying the cutting line fast and easy under sealing lips and encapsulations.

■ FBH-190

Flexible bit holder for WSP-001S/K



The extended flexible bit holder enables you to cut-out small quarter glasses or strongly curved backlites with the WRD Spider. Due to the high torque force occurring in the cut-out process this component is not suitable for long-term work. For a continuous operation we recommend the angle driver W-1414.

Length: approx. 190 mm

■ W-1414

Angle drive 1/4" for WRD Spider 001S /K



Angle gear drive for using the Spider removal tool in constricted areas (e.g. for the removal of side glasses or backlites).

Dimensions (LxWxH): 170 x 60 x 25 mm

Gear Ratio: 1.285

Torque (max.): 60 N

■ AKS-144

Panasonic Cordless Drill 14.4 V



High-power, robust and compact cordless drill with Li-Ion battery technology. 2-step gear for powerful screwing and fast drilling. Delivered with 2 battery packs (1.5 Ah), battery charger and plastic tool case.

Replacement battery pack on page 117.

■ **ADAS-18-S**

FEIN SuperWire ADAS 18 with battery and charger

■ **ADAS-18-L**

FEIN SuperWire ADAS 18 without battery or charger



Reliable removal of glass without the need to reposition even with tight clearances.

Features:

- Simple removal of glass without the need to reposition the Super-Wire.
- Can even be used if the windscreen is very curved and with small gaps.
- High-strength round wire even cuts through double adhesive beads.
- Robust gearbox and motor unit with slipping clutch.
- Remove 40-60 panes with one battery charge.
- Brushless, maintenance-free motor.
- Remote control with LED lamp and 1.5 m cable.
- Slipping clutch prevents wire breakage.

Set contains

- 1 FEIN SuperWire ADAS 18 in plastic storage case
- 1 rapid charger ALG 50 (only included with ADAS-18-S)
- 1 Li-ion 18 V battery pack (only included with ADAS-18-S)
- 300 m round wire
- 1 starter awl
- 10 metal skewers
- 2 PVC covers (dashboard + headliner)
- 1 vacuum ring for very bent windscreens



*quicklink to the
product video*



■ **ADR-300**

FEIN Cutting Wire 300 m

Replacement wire for FEIN SuperWire cutting system



■ DSC-452

Cutting System CUT-IT complete kit in plastic case

The CUT-IT cutting system has been revised by the manufacturer and is now available in an improved version.

The cut-out process of a windscreen is completely performed by only one person.

The bridge of the system is fixed to the windscreen from inside while the cut-out wire is led around the outside contour of the windscreen.

By re-positioning the guide roller the wire is always guided close to the windscreen in a favorable cutting angle. In conjunction with the optional dashboard protector, this system enables you to cut out the windscreen without having to dismantle the interior trim, which can be very time-consuming.

Damages both of the interior as well as of the pinchweld around the windscreen are practically eliminated with this system.

Kit contains:

- 1 CUT-IT bridge with 2 suction cups
- 1 guide roller with 1 suction cup
- 1 wire threader
- 1 spool of squared cutting wire (item no. XKD-44)
- 1 pair of safety goggles
- 1 plastic case with molded insert
- 1 instruction manual

Recommended Accessories:

- 3/8" ratchet
- dashboard protector (item no. DBP-4525)



GLASS BOT™



- Electrical power tool that cuts with a wire from exterior inwards, eliminating the risk of pinch weld damage
- no nerve or muscle damage from high vibration tools (no hand/arm vibration)
- no physical strain for the operator
- today's vehicles have very tight tolerances between glass and body that restrict the use of pull knives and other cutting tools
- open pinchwelds require - more than ever - that the removal process does not damage the paint
- thanks to the battery operation also suitable for mobile use





■ GBS-180L

Cutting System Glass Bot LION complete kit in plastic case

Patent pending

The Glass Bot LION is a further development of the already known battery powered cutting system. Besides from the up-to-date Li-Ion battery technology the tool has been equipped with a new controller unit. The wired remote control now offers a vario trigger which regulates the Glass Bot LION's operating speed continuously variable. At the same time the battery has been moved from the tool into the remote control unit.

Kit contains:

- 1 Glass Bot LION cutting tool
- 1 rechargeable battery (item no. BP-180)
- 1 battery charger (item no. PBA-1827)
- 2 spools of cutting wire (item no. XKD-44)
- 1 wire threader (item no. DST-757)
- 1 Pointed Pliers with wire cutter 160 mm long (item no. SPZ-160)
- 1 wire-stop suction pad (item no. EDS-150-S)
- 1 guide roller with pump suction cup (item no. ULR-120)
- 1 can of adhesive agent for suction cups (item no. HRS-100)
- 1 dashboard protector (item no. DBP-4525)
- 1 wire guiding spatula (item no. DFS-100)
- 1 wire guide (item no. DH-280)
- 1 pair of safety goggles (item no. SB-886)
- 1 foam lined plastic case
500 x 375 x 175 mm

quicklink to the
product video



■ GB-10L

Cutting Tool Glass Bot LION battery powered

Patent pending

Kit contains:

- 1 Glass Bot LION cutting tool
- 1 rechargeable battery (item no. BP-180)
- 1 battery charger (item no. PBA-1827)



■ BP-180

Li-Ion Rechargeable Battery 18 V (1,5 Ah) for Glass Bot LION

ProGlass Sawing and Cutting Wires

It was in the seventies when the first passenger cars in Europe were manufactured with a bonded windscreen and the garages were faced with a problem: How could they remove the windscreen from the vehicle without smashing the glass with a hammer?

The first solution was found by using piano wire. On the one hand these wires were thin and on the other hand solid enough. Two pieces of wood had to suffice as handles to hold the wire ends – by that the bonding could be cut through and the glass be taken out in one piece. From this, over the years, a braided wire – similar to our today's Sawing Wire SD – was developed. That is why this type of wire is still known as “piano wire”.

Another frequently used thing in these days was “cheese wire”, thus a wire made for cutting cheese. Although this term is also still used by many technicians the current cut-out wires for bonded auto glass have not a lot in common with the products used in former times.

But this very day sawing and cutting wires still are the most commonly used tool for cutting out bonded auto glass. In our range we carry five different types of metal wires with different cross-sections and sizes. Depending on the application and personal liking every auto glass technician will find his favourite wire on the following pages.





■ DD-02

■ DD-50



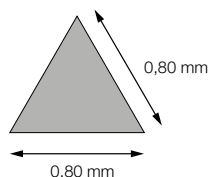
**ProGlass Cut-Out Wire DD,
triangular 0.8 x 0.8 mm, ring at 2.0 m**

**ProGlass Cut-Out Wire DD,
triangular 0.8 x 0.8 mm, ring at 2.0 m**

Due to the pointed cutting angle of 60° the ProGlass triangular cut-out wire has a particularly good cutting ability. To avoid damages to the painted car body and to the interior this cutting wire should be used mainly for cutting easily accessible bondings.

Application: to pull only

Tensile strength: 80 kg (784 N)





■ SD-02

■ SD-22

■ SD-44



ProGlass Sawing Wire SD,
Ø 0.80 mm, ring at 2.0 m



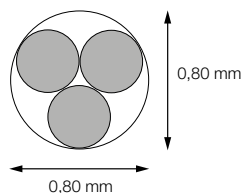
ProGlass Sawing Wire SD,
Ø 0.80 mm, 22 m on plastic spool

ProGlass Sawing Wire SD,
Ø 0,80 mm, 44 m on plastic spool

ProGlass sawing wire is made of three resistant, brass-plated steel wires that are braided to one strand. The result is a very stable and still flexible sawing wire with a diameter of 0,80 mm. Because of it's sawing action this wire is especially good for extra wide or tough bondings.

The wire is held on the plastic spool by a wide rubber band that makes it easy to spool off and cut a required portion while the remaining wire is safely held on the spool.

Application: to saw only
Tensile strength: 110 kg (1078 N)





■ VKD-02

■ VKD-22

■ VKD-44

ProGlass Cut-Out Wire VKD,
squared 0.6 x 0.6 mm, ring at 2.0 m



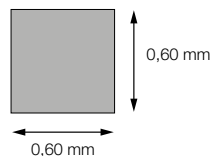
ProGlass Cut-Out Wire VKD,
squared 0.6 x 0.6 mm, 22 m on plastic spool

ProGlass Cut-Out Wire VKD,
squared 0.6 x 0.6 mm, 44 m on plastic spool

Because of its sharp edges this wire has the best cutting action when it is pulled - it is not made for sawing as it would break too fast! To avoid damages to the painted car body and to the interior squared cutting wire should be used mainly for cutting easily accesible bondings.

The wire is held on the plastic spool by a wide rubber band that makes it easy to spool off and cut a required portion while the remaining wire is safely held on the spool.

Application: to pull only
Tensile strength: 70 kg (686 N)





■ XKD-02

■ XKD-22

■ XKD-44



ProGlass Cutting Wire XKD,
squared 0.7 x 0.7 mm, ring at 2.0 m



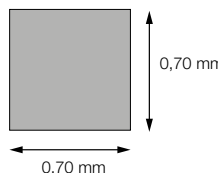
ProGlass Cutting Wire XKD,
squared 0.7 x 0.7 mm, 22 m on plastic spool

ProGlass Cutting Wire XKD,
squared 0.7 x 0.7 mm, 44 m on plastic spool

The tensile strength of ProGlass XKD cutting wire is by 36% higher than of VKD cutting wire. Therefore this square wire is especially good for cutting double beads or extremely wide polyurethane beads. Thanks to its high tensile strength and the excellent cutting ability this wire works also great with cutting systems like the Roll-Out or the Glass Bot.

The wire is held on the plastic spool by a wide rubber band that makes it easy to spool off and cut a required portion while the remaining wire is safely held on the spool.

Application: to pull only
Tensile strength: 95 kg (931 N)





■ RD-02

■ RD-22

■ RD-44

ProGlass Round Wire RD,
Ø 0.68 mm, ring at 2.0 m



ProGlass Round Wire RD,
Ø 0.68 mm, 22 m on plastic spool

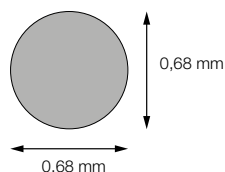
ProGlass Round Wire RD,
Ø 0,68 mm, 44 m on plastic spool

The round profile and the small diameter make this wire a real problem solver for today's cars with narrow gaps between glass and body. It has the same high tensile strength as our proven squared cutting wire but offers at the same time a much lower risk to damage interior linings and dashboards.

The wire is held on the plastic spool by a wide rubber band that makes it easy to spool off and cut a required portion while the remaining wire is safely held on the spool.

Application: to pull only

Tensile strength: 70 kg (686 N)



■ **DSS-704****ProGlass Wire Cutting Kit DSS
with squared and braided wire, in 5 parts**

Kit contains:

- 1 T-handle wire threader (item no. DST-733)
- 1 pair of wire handles (item no. DGL-200)
- 1 ProGlass sawing wire, 22 m (item no. SD-22)
- 1 ProGlass cutting wire, 22 m (item no. VKD-22)

■ **SDK-202****ProGlass Wire Cutting Kit SDK
with braided wire, in 4 parts**

Kit contains:

- 1 wire threader (item no. DST-125)
- 1 pair of wire handles (item no. DGL-200)
- 1 ProGlass sawing wire, 22 m (item no. SD-22)

■ **VKS-202****ProGlass Wire Cut-Out Kit VKS
with squared wire, in 4 parts**

Kit contains:

- 1 wire threader (item no. DST-125)
- 1 pair of wire handles (item no. DGL-200)
- 1 ProGlass cutting wire, 22 m (item no. VKD-22)

■ **RDK-202****ProGlass Wire Cut-Out Kit RDK
with squared wire, in 4 parts**

Kit contains:

- 1 wire threader (item no. DST-125)
- 1 pair of wire handles (item no. DGL-200)
- 1 ProGlass round wire, 22 m (item no. RD-22)



■ EDS-150

ProGlass One Man Wire Cut-Out Tool Kit EDS

The 150 mm diameter sucker holds the wire absolutely reliable in place and takes over the part of the second person!

Very easy and fast attachment of the bell-shaped sucker by merely pressing it against the glass. The wire is driven very close to the glass to avoid damages to the dash board or interior linings.

Adapted for squared and round wire (not for sawing wire!)

Kit contains:

- 1 suction cup with wire fastener (item no. EDS-150-S)
- 1 primer/cleaner for suction cups (item no. HRS-100)
- 1 ProGlass round wire, 22 m (item no. RD-22)
- 1 ProGlass squared cutting wire, 22 m (item no. VKD-22)
- 1 wire threader (item no. DST-125)
- 1 wire handle with suction cup (item no. DGL-201S)



*quicklink to the
product video*



■ EDS-150-0

ProGlass One Man Wire Cut-Out Tool EDS

Kit contains:

- 1 suction cup with wire fastener (item no. EDS-150-S)
- 1 primer/cleaner for suction cups (item no. HRS-100)



■ HRS-100

ProGlass Adhesive Agent For Suction Cups can at 100 ml

It highly degrades the rubber and improves the adhesion between rubber and glass (the glass must be clean as well). Other cleaning agents with a similar efficient formula will destroy the rubber surface within short time.





■ DBP-6030

ProGlass Dashboard Protector
approx. 60 x 30 cm

■ DBP-6030-S

ProGlass Dashboard Protector with 2 suction cups
approx. 60 x 30 cm



The Dashboard Protector is made of a 2 mm plastic material. The elastic plastic material adapts to all curves and is at the same time very imperishable and strong so that all cutting and sawing wires slide along easily.

This tool is the perfect companion to cut out glasses using wire. Thanks to the special shape it can be used practically on all sides and corners of all cars. Push the board between dashboard/interior trim and glass until it touches the adhesive bead. By that you will not only avoid any kind of damages to the sensible surfaces of interior parts but also protect the VIN plate and the pinchweld edges.

In combination with the double suction cups DSN-37 the protective board can be fixed on the glass in any position.



■ DSN-37

Double Suction Cups (set of 2 pieces)
PVC sucker Ø 37 mm, transparent

Double sided suction cups to fix the ProGlass dashboard protector DBP-6030 on the glass. By that the protective board can be fixed whenever needed, also along the A-pillar or on the roof side.



■ DBP-4525



ProGlass Dashboard Protector
approx. 49 x 26 cm

The Dashboard Protector is made of a 2 mm plastic material. The elastic plastic material adapts to all curves and is at the same time very imperishable and strong so that all cutting and sawing wires slide along easily.

This tool is the perfect companion to cut out glasses using wire. Thanks to the special shape it can be used practically on all sides and corners of all cars. Push the board between dashboard/interior trim and glass until it touches the adhesive bead. By that you will not only avoid any kind of damages to the sensible surfaces of interior parts but also protect the VIN plate and the pinchweld edges.

In combination with the double suction cups DSN-37 the protective board can be fixed on the glass in any position.

■ DP001P00

**ICOR Dashboard Protector,
set of 2 pieces, approx. 60 x 24 cm**

ICOR Dashboard Protector,
set of 2 pieces, approx. 60 x 24 cm



■ DP001P01

**ICOR Protective Board for A-pillars
and roofliners, approx. 40 x 10 cm**

ICOR Protective Board for A-pillars
and roofliners, approx. 40 x 10 cm



■ DH-280

**ProGlass Wire Hold
approx. 300 mm long, powder-coated steel**

Simple tool to protect the interior trims when cutting out a bonded
vehicle glass with wire.



The wire hold is fixed with its two suction cups from the inside of the glass, close to the glasses edge. The cutting or sawing wire is thereby guided closely to the glass and can not cut into A-pillar trims or the roof lining.

■ DFS-100

**Wire Guiding Spatula
with wooden handle, 100 mm wide blade**

The spatula is very practical to guide the wire from inside the vehicle. This tool is especially helpful to lift the wire over positioning pins or to loosen these pins from the glass.



■ ULR-120

ProGlass Guide Roller With Pump Cuction Cup

- for guiding the cutting wire from inside of the vehicle
- leading the wire in an optimized angle facilitates cutting
- secure mounting to the glass with integrated vacuum pump
- suitable for manual use as well as for wire cutting tools
- suction cup Ø 120 mm



■ ULR-150

ProGlass Guide Roller With Suction Cup

- for guiding the cutting wire from inside of the vehicle
- leading the wire in an optimized angle facilitates cutting
- easy mounting by merely pressing the bell-shaped suction cup against the glass
- suitable for manual use as well as for wire cutting tools
- suction cup Ø 150 mm



■ **DHL-300****ProGlass Wire Guide, long version**

The extra long wire guide also works with the latest Mini-Vans and Coupés because his flat tip is real 16 cm long! Overall length of the tool is ca. 38 cm. Knurled head screw with thread in M4 for secure fastening of the wire without the use of tools.

■ **DGH-300****ProGlass Wire Guide, long version**

The extra long wire guide also works with the latest Mini-Vans and Coupés because his flat tip is real 16 cm long! Overall length of the tool is ca. 38 cm. Knurled head screw with thread in M4 for secure fastening of the wire without the use of tools.

■ **DGS-301****ProGlass Wire Guide and Wire Handle**

- Kit contains:
- 1 wire guide (item no. DGH-300)
- 1 wire handle (item no. DGL-201)

■ **SPZ-160****Pointed Pliers With Wire Cutter
160 mm long**

Pointed pliers make it easy to grip the wire end after it has been pierced through the adhesive bead. These pointed pliers do also have an integrated wire cutter.





■ **DGL-200**

Wire Handles, set of 2 pieces

These self-locking wire handles have an excellent grip on each type of wire.

The handle is made of shock resistant plastic, sleeve and shaft are made of chrome-plated metal.



■ **DGL-201**

Wire Handle, single

This self-locking wire handle has an excellent grip on each type of wire.

The handle is made of shock resistant plastic, sleeve and shaft are made of chrome-plated metal.



■ **DGL-201S**

Wire Handle With Suction Cup



The fixed suction cup allows you to stick this handle to the glass or even the painted car body. So you can go around the vehicle's front and grab it from the other side easily. The handle will not fall down and hit the car body. The wire will not unnecessarily touch the painted car body or other damageable surfaces.



■ **TWH-500**



Wire Handles TightWire, set of 2 pieces

Wire handles with screw-clamp fastening. For quick and secure fixing of all sawing and cutting wires as well as cutting lines.

Unscrew the handle, insert the wire end into the hole and bend it over, pull it around the bolt at least one time and twist the handle back together tightly.



■ **DEG-SET**

Curved Wire Threader Kit
53, 58 and 61 mm (1 piece of each)

The curved wire threader enables threading of the cutting wire even where the gap between the glass and the pinchweld is very small. This is especially helpful on side and back windows where conventional wire threaders are often difficult to use. The curved threader can be pushed through the adhesive bead from inside to outside or from outside to inside. Piercing works best with the aid of some long-nosed pliers.

The kit contains 1 piece of each curved wire threader in 53, 58 and 61 mm.



■ **DEG-053**

Curved Wire Threader, 53 mm
package at 3 pieces

■ **DEG-058**

Curved Wire Threader, 58 mm
package at 3 pieces

■ **DEG-061**

Curved Wire Threader, 61 mm
package at 3 pieces

The curved wire threader enables threading of the cutting wire even where the gap between the glass and the pinchweld is very small. This is especially helpful on side and back windows where conventional wire threaders are often difficult to use. The curved threader can be pushed through the adhesive bead from inside to outside or from outside to inside. Piercing works best with the aid of some long-nosed pliers.

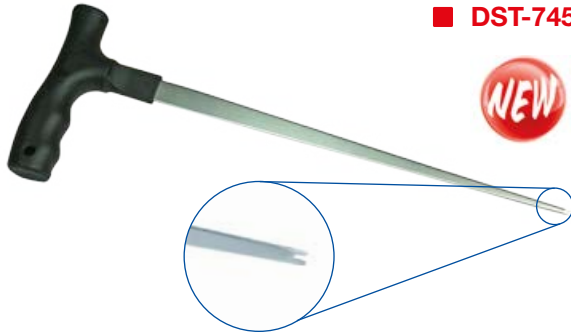


■ **DST-125**

T-Handle Wire Threader, small
length: 125 mm

Hollow needle made of steel with a T-handle made of aluminium to pierce the polyurethane bead and pass the wire through.

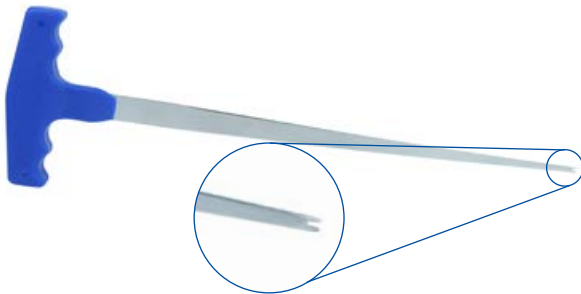
■ **DST-745**



**L-handle Wire Threader, slitted tip,
Length: 340 mm**

Very solid wire threading device with a flexible blade made of spring steel. Just lay the wire in the notched tip and pass it through the polyurethane by pushing the tool from the inside to the outside.

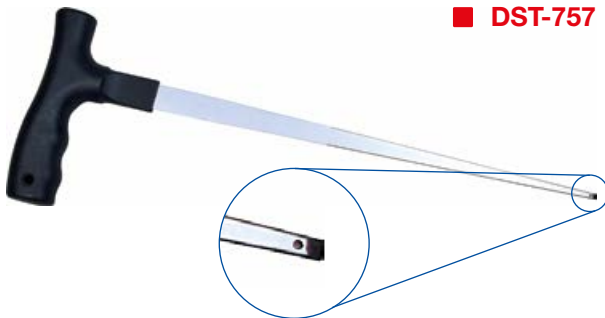
■ **DST-733**



**T-Handle Wire Threader, large
length: 325 mm**

Very solid wire threading device with a flexible blade made of spring steel. Just lay the wire in the notched tip and pass it through the polyurethane by pushing the tool from the inside to the outside.

■ **DST-757**



**L-Handle Wire Threader, large
length: 340 mm**

Very solid wire threading device with a flexible blade made of spring steel. Push the tip through the polyurethane from the inside to the outside, pass the wire through the eye (Ø 1.6 mm) and pull the tool back.

■ **DS-340**



**Wire Threader, large
length: 340 mm**

Very solid wire threading device with a flexible blade made of spring steel. Just lay the wire in the notched tip and pass it through the polyurethane by pushing the tool from the inside to the outside.





■ SY-S1PRO

**Systocut S1 PRO Auto Glass Cut-Out Knife
complete kit in plastic case**

- very efficient cut-out knife with ergonomic handle design
- quick-release system for fastest exchange of blades
- the blade can be mounted to the tool in five different positions which makes the tool very flexible to use
- non-skid handle surface

Kit contains:

- 1 cutting tool Systocut S1 PRO
- 1 blade 25 mm (item no. SY-KK1)
- 1 blade 33 mm (item no. SY-KK2)
- 1 pair of safety gloves „Systocut“, cut-resistant
- 1 foam lined plastic case 274 x 228 x 81 mm



*quicklink to the
product video*



■ SY-S1ECO

Systocut S1 ECO Auto Glass Cut-Out Knife

- very efficient cut-out knife with ergonomic handle design
- screw fastening of blades
- low-priced version of the S1 cutting tool
- non-skid handle surface

Kit contains:

- 1 cutting tool Systocut S1 ECO
- 1 blade 25 mm (item no. SY-KK1)
- 1 blade 33 mm (item no. SY-KK2)



■ **SY-KK1**

■ **SY-KK2**

■ **SY-KK4**

Systocut Blade 25 mm long

Systocut Blade 33 mm long

Systocut Blade 47 mm long

Standard blades for the Systocut S1 cutting tool.
Suitable for Systocut S1 PRO and S1 ECO.

Thanks to the 2-hole-fastening the blade can be locked in different positions. The 47 mm long blade has a reinforced wing.



■ **SY-KK6**

Systocut Blade „Mammoth“, 67 mm long

The „Mammoth“-blade has been especially designed for cutting those difficult to reach the set back adhesive beads on the bottom side of many windscreens. Suitable for Systocut S1 PRO and S1 ECO.

This blade has an extra large wing to make the blade solid enough for the extreme load due to the increased length.



■ **SY-KK7**

■ **SY-KK8**

Systocut Blade AX, 25 mm long

Systocut Blade AX, 33 mm long

Reinforced blades for the Systocut S1 cutting tool.
Suitable for Systocut S1 PRO and S1 ECO.

Thanks to the 2-hole-fastening the blade can be locked in different positions. Compared to the standard blades the AX series has a reinforced wing which makes them more robust.

■ **ZMQ-500**



ProGlass Pull Knife with quick release system, with neoprene handle cover

- ergonomically shaped pull knife for optimum power transmission
- non-skid and protecting covers to avoid scratches
- blade exchange within seconds
- includes 1 stainless steel blade 25 mm long

■ **SMQ-525**



ProGlass Pull Knife Kit in plastic case

Kit contains:

- 1 ProGlass pull knife (item no. ZMQ-500)
- 1 stainless steel blade 25 mm (item no. UW-725)
- 1 stainless steel blade 38 mm (item no. UW-738)
- 1 scraper blade 19 mm (item no. SK-119)
- 1 foam lined plastic case 240 x 215 x 45 mm

■ **ZMX-400**



ProGlass Pull Knife with quick release system

- ergonomically shaped pull knife for optimum power transmission
- corrugated handle design with maximum grip
- blade exchange within seconds
- includes 1 stainless steel blade 25 mm long

■ **ZGL-195**



ProGlass Pull Handle with neoprene cover

Replacement pull handle, suitable for the ProGlass pull knives ZMK-110, ZML-395, ZMQ-500 and ZMX-400.

■ **QC-200****REID Pull Knife, slim, with quick release system**

- ergonomically shaped pull knife for optimum power transmission
- non-skid and protecting covers to avoid scratches
- slim handle design (Ø 30 mm) for longer working without fatigue
- blade exchange within seconds
- includes 1 stainless steel blade 25 mm long

■ **RK-500****REID Pull Knife with quick release system**

- ergonomically shaped pull knife for optimum power transmission
- non-skid and protecting covers to avoid scratches
- blade exchange within seconds
- includes 1 stainless steel blade 25 mm long

■ **RK-500-01****REID Pull Handle**

Replacement pull handle for the REID pull knives QC-200 and RK-500.

■ **FA-500****REID Repair Kit for pull knives**

Repair kit consisting of screw and plastic washer to fix the pull handle to the knife.

Suitable for REID pull knives QC-200 and RK-500.

■ UW-3007

UltraWiz Pull Knife with fast release lever mechanism, with flexible pull handle

UltraWiz Lever Pull Knife with ergonomic handle design and unique fast release lever mechanism. Opening the lever releases the blade immediately. The blade can be adjusted stepless within a wide range. By closing the lever the blade is held in position securely. Includes 1 pull knife blade 25 mm long.



■ UW-3001

UltraWiz Pull Knife with flexible pull handle

UltraWiz pull knife with ergonomic handle design. The lateral locking screw makes blade replacements faster than with standard pull knives. Includes 1 pull knife blade 25 mm long.



■ UW-3001RK

UltraWiz Pull Handle

Replacement pull handle for the UltraWiz pull knives UW-3001 und UW-3007.





■ **ZML-395**

ProGlass Pull Knife with neoprene cover

Rugged and proved standard pull knife with flexible pull handle. With neoprene covered handles and PVC covered pull cable for better handling and to avoid scratches. Includes 1 pull knife blade 25 mm long.

total length: 170 mm (incl. blade /excl. handle)



■ **ZMK-110**

ProGlass Pull Knife with neoprene cover, short model

Rugged and proved standard pull knife with flexible pull handle. The short handle facilitates working in constricted area (e.g. below the bonnet). With neoprene covered handles and PVC covered pull cable for better handling and to avoid scratches. Includes 1 pull knife blade 25 mm long.

total length: 110 mm (incl. blade /excl. handle)



■ **ZMS-382**

ProGlass Standard Pull Knife

Rugged and proved standard pull knife with flexible pull handle. Includes 1 pull knife blade 25 mm long.

total length: 165 mm (incl. blade /excl. handle)



■ **ZKS-110**

ProGlass Standard Pull Knife, short model

Rugged and proved standard pull knife with flexible pull handle. The short handle facilitates working in constricted area (e.g. below the bonnet). Includes 1 pull knife blade 25 mm long.

total length: 105 mm (incl. blade /excl. handle)



■ **ZGL-195**

ProGlass Pull Handle with neoprene cover

Replacement pull handle, suitable for the ProGlass pull knives ZMK-110, ZML-395, ZMQ-500 and ZMX-400.



■ **ZGS-182**

ProGlass Standard Pull Handle

Replacement pull handle, suitable for the ProGlass pull knives ZKS-110 and ZMS-382.



■ **RS-123**

ProGlass Repair Kit for pull knives

Repair kit consisting of screw, plastic washer and nut to fix the pull handle to the blade.

Suitable for ProGlass pull knives ZKS-110, ZMK-110, ZML-395 and ZMS-382.



■ **USS-190**

Universal Sharpening Stone with handle

This sharpening stone with plastic handle is ideal for sharpening all pull knife blades, scraper blades, utility blades and power tool blades.

Working is much easier with a sharp blade!



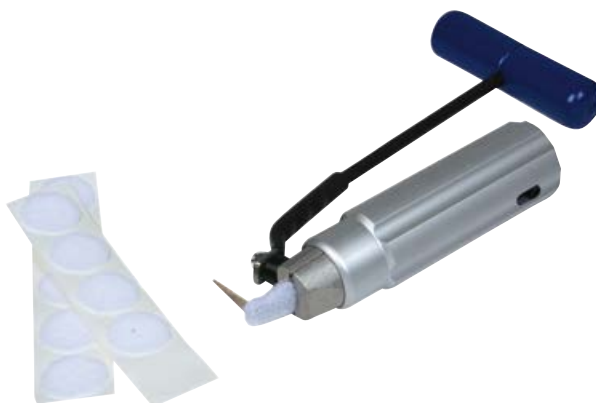
■ **KKP-130**

**Velcro Adhesive Pads Ø 13 mm
package at 10 pieces**

■ **KKP-220**

**Velcro Adhesive Pads Ø 22 mm
package at 10 pieces**

These pads can be used as a protecting cushion on pull knife blades or power tool blades (e. g. BTB, Fein) and so they help avoiding scratches on the pinchweld or on the glass.



■ **UW-6991**

**UltraWiz Serrated Blade, 19 mm long,
package at 5 pieces**



■ **UW-6992**

**UltraWiz Serrated Blade, 25 mm,
long package at 5 pieces**



■ **UW-6994**

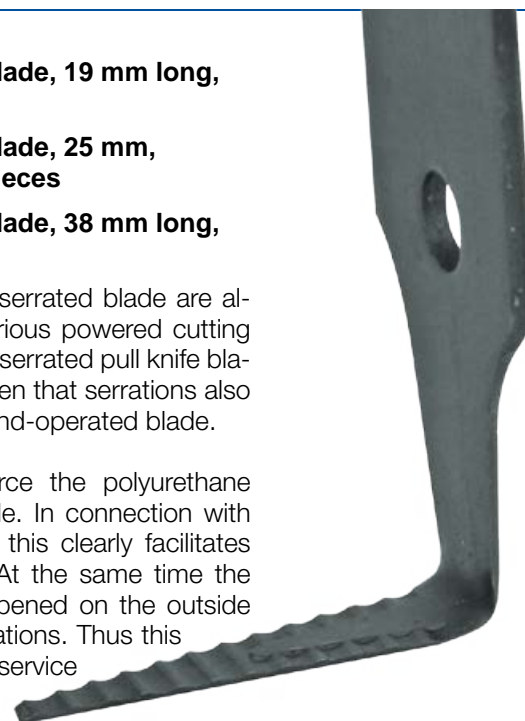
**UltraWiz Serrated Blade, 38 mm long,
package at 5 pieces**



The advantages of a serrated blade are already known from various powered cutting tools. With these new serrated pull knife blades UltraWiz has proven that serrations also offer benefits on of hand-operated blade.

The sharp teeth pierce the polyurethane when pulling the blade. In connection with the thin cutting edge this clearly facilitates the cutting process. At the same time the blade can be re-sharpened on the outside without losing its serrations. Thus this blade has a very long service life.

Suitable for all pull knives in our range.





■ **UW-119**

UltraWiz Standard Pull Knife Blade 19 mm long package at 5 pieces



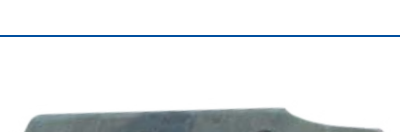
■ **UW-1001-P**

UltraWiz Standard Pull Knife Blade 19 mm long package at 10 pieces



■ **UW-125**

UltraWiz Standard Pull Knife Blade 25 mm long package at 5 pieces



■ **UW-1002-P**

UltraWiz Standard Pull Knife Blade 25 mm long package at 10 pieces



■ **UW-138**

UltraWiz Standard Pull Knife Blade 38 mm long package at 5 pieces



■ **UW-1004-P**

UltraWiz Standard Pull Knife Blade 38 mm long package at 10 pieces

The Standard series from UltraWiz marks the worldwide industry standard for pull knife blades. Made of carbon steel (a low-alloy steel with a high carbon content) these blades offer a fine edge in combination with a good durability and hardness.

Suitable for all pull knives in our range.



■ **UW-519**

UltraWiz Pull Knife Blade, extra thin, 19 mm long package at 5 pieces



■ **UW-5001-P**

UltraWiz Pull Knife Blade, extra thin, 19 mm long package at 10 pieces



■ **UW-525**

UltraWiz Pull Knife Blade, extra thin, 25 mm long package at 5 pieces



■ **UW-5002-P**

UltraWiz Pull Knife Blade, extra thin, 25 mm long package at 10 pieces



■ **UW-538**

UltraWiz Pull Knife Blade, extra thin, 38 mm long package at 5 pieces

■ **UW-5004-P**

UltraWiz Pull Knife Blade, extra thin, 38 mm long package at 10 pieces

The UltraThin series from UltraWiz has a 40% thinner cutting edge than the standard blades. Therefore these blades cut more easily through adhesive beads but still offer the same durability and hardness than the UltraWiz Standard blades.

Suitable for all pull knives in our range.



- **UW-51C1** UltraWiz Paint Protection Blades 19 mm long package at 5 pieces
- **UW-51C1-P** UltraWiz Paint Protection Blades 19 mm long package at 10 pieces
- **UW-51C2** UltraWiz Paint Protection Blades 25 mm long package at 5 pieces
- **UW-51C2-P** UltraWiz Paint Protection Blades 25 mm long package at 10 pieces
- **UW-51C4** UltraWiz Paint Protection Blades 38 mm long package at 5 pieces
- **UW-51C4-P** UltraWiz Paint Protection Blades 38 mm long package at 10 pieces

This blade series has a smooth plastic coating on the back, so if the blade touches the paint, it will not be damaged. The coating is very tough and will not easily rub off. The blade is based on the UltraWiz UltraThin series, so it is one of the thinnest blades in the industry.

Suitable for all pull knives in our range.



- **UW-719** UltraWiz Stainless Steel Blade, 19 mm long
- **UW-7001-P** UltraWiz Stainless Steel Blade, 19 mm long package at 10 pieces
- **UW-725** UltraWiz Stainless Steel Blade, 25 mm long
- **UW-7002-P** UltraWiz Stainless Steel Blade, 25 mm long package at 10 pieces
- **UW-738** UltraWiz Stainless Steel Blade, 38 mm long
- **UW-7004-P** UltraWiz Stainless Steel Blade, 38 mm long package at 10 pieces

With the Stainless Steel series in the year 2000 UltraWiz presented the first coined stainless steel blade of the auto glass industry. The blade combines the known advantages of the Standard series with an improved durability, a better consistency and a longer lasting sharp edge. As each of these blades can be used for a very long time we offer them not only in the original package at 10 pieces but also as single packaged blades.

Suitable for all pull knives in our range.

■ UWE-3



UltraWiz Stainless Steel Blade Assortment, in 3 parts

Kit contains:

- 1 UltraWiz stainless steel blade 19 mm
- 1 UltraWiz stainless steel blade 25 mm
- 1 UltraWiz stainless steel blade 38 mm

■ UWS-6



UltraWiz Blade Assortment, in 6 parts

Kit contains:

- 1 UltraWiz Pull Knife Blade 19 mm
- 1 UltraWiz Pull Knife Blade 25 mm
- 1 UltraWiz Pull Knife Blade 38 mm
- 1 UltraWiz Pull Knife Blade, extra thin, 19 mm
- 1 UltraWiz Pull Knife Blade, extra thin, 25 mm
- 1 UltraWiz Pull Knife Blade, extra thin, 38 mm

■ RKB-410-S/S

REID Extended Shank Stainless Steel Blade, 25 mm long

■ RKB-410-P

REID Extended Shank Stainless Steel Blade, 25 mm long package at 6 pieces

■ RKB-415-S/S

REID Extended Shank Stainless Steel Blade, 38 mm long

■ RKB-415-P

REID Extended Shank Stainless Steel Blade, 38 mm long package at 6 pieces

This blade series has a longer shaft compared to the standard REID stainless steel blades. This gives you more clearance between the pull knife and the glass resp. the car body which is often very helpful.

Available in the typical package at 6 pieces or single. Suitable for all pull knives in our range.



* than standard blades



- **ZK-0119**
- **ZK-0119-P**
- **ZK-0125**
- **ZK-0125-P**
- **ZK-0138**
- **ZK-0138-P**

Standard Stainless Steel Blade, 19 mm long

Standard Stainless Steel Blade, 19 mm long package at 5 pieces

Standard Stainless Steel Blade, 25 mm long

Standard Stainless Steel Blade, 25 mm long package at 5 pieces

Standard Stainless Steel Blade, 38 mm long

Standard Stainless Steel Blade, 38 mm long package at 5 pieces

Well-priced stainless steel blade series. The cutting part of these blades is a little bit thinner and the edge is grinded in a different angle than the stainless series from UltraWiz and REID. Therefore they work with less cutting resistance. Because of the thinner material they also bend and twist more easily when cutting through hard adhesive. Anyway they offer a good cost-performance ratio.

Suitable for all pull knives in our range.



- **ZKS-150**
- **ZKS-180**

ProGlass Special Pull Knife Blade, 30 mm long, stainless steel, for set back adhesive beads

ProGlass Special Pull Knife Blade, 60 mm long, stainless steel, for set back adhesive beads

The unique double-angled shape of this blades enables you to use a pull knife where you could never use it before!

Typical application area of the 60 mm blade are set back adhesive beads that can be found on the bottom side of many windscreens and that could never be reached with a pull knife blade before.

The 30 mm blade is perfect for all other situations with a body superstructure - meaning that the fenders or the hood are covering the glasses edge, making it impossible to use a 90 degree angled blade.



■ UW-1012



**UltraWiz Special Blade „Offset Clearance“
package at 5 pieces**

This blade enables cutting around the bottom corners or the bottom edge when the glass is partly covered by fenders and/or the hood.

The blade has a cutting length of 25 mm.

■ UW-1022



**UltraWiz Special Blade „Offset Moulding“
package at 5 pieces**

This blade enables you to release a glass from its moulding when the moulding has been bonded to the pinchweld as a result of excessive use of adhesive. The blade cuts between glass and moulding. After cutting just slide the glass down until it can be removed. After that the moulding can be separated from the pinchweld without damage.

The blade has a cutting length of 25 mm.

■ UW-5500

**UltraWiz Interior Pull Knife Blade 13 mm
package at 5 pieces**

■ UW-5501

**UltraWiz Interior Pull Knife Blade 19 mm
package at 5 pieces**



Finally a blade series that enables you to use your pull knife from inside the vehicle! With these blades you can cut out many side and back glasses with ease.

Don't believe it? Try to cut out the next back glass of a VW Golf III with the 13 mm long blade and you will be surprised. Works also on side glasses.



■ **OM-520**



**ProGlass Oscillating Cut-Out Knife „Heavy Duty“
with 1 blade OK-51**

- rugged tool for frequent use
- powerful air motor with 22,000 rpm
- backward facing air exhaust with silencer
- safety throttle to avoid an unintended start of the motor
- delivered with hex key for blade exchange
- blade clamp fits all FEIN blades
- air connection 1/4, air consumption 300 l/min
- max. operating pressure 6.2 bar (90 psi)
- net weight: approx. 1.0 kg

■ **OM-605**



**ProGlass Oscillating Cut-Out Knife „Economy“
with 1 blade OK-51**

- standard tool for occasionally use
- rugged air motor with 22,000 rpm
- backward facing air exhaust with silencer
- safety throttle to avoid an unintended start of the motor
- delivered with special key for blade exchange
- blade clamp fits all FEIN blades
- air connection 1/4, air consumption 220 l/min
- max. operating pressure 6.2 bar (90 psi)
- net weight: approx. 0.95 kg

■ **OM-610**



**ProGlass Oscillating Cut-Out-Knife „Heavy Duty“
with 1 blade OK-51**

Extra low vibration drive for non-tiring work under regular and frequent use.

- rugged air motor with 22,000 rpm
- backward facing air exhaust with silencer
- safety throttle to avoid an unintended start of the motor
- delivered with special key for blade exchange with swivelling and removable extra handle
- blade clamp fits all FEIN blades
- air connection 1/4, air consumption 300 l/min
- max. operating pressure 6.2 bar (90 psi)
- net weight: approx. 1.15 kg



■ **OMS-520**

**ProGlass Auto Glass Cut-Out Knife Kit „Heavy Duty“
in plastic case**

Kit contains:

- 1 cut-out knife OM-520
- 1 scraper blade OK-50
- 1 of each cutting blade OK-51, OK-52, OK-53 and OK-54
- 1 foam lined plastic case 340 x 275 x 83 mm



■ **OMS-605**

**ProGlass Auto Glass Cut-Out Knife Kit „Economy“
in plastic case**

Kit contains:

- 1 cut-out knife OM-605
- 1 scraper blade OK-50
- 1 of each cutting blade OK-51, OK-52, OK-53 and OK-54
- 1 foam lined plastic case 340 x 275 x 83 mm



■ **OMS-610**

**ProGlass Auto Glass Cut-Out Knife Kit „Deluxe“
in plastic case**

Kit contains:

- 1 cut-out knife OM-610 with extra handle
- 1 scraper blade OK-50
- 1 of each cutting blade OK-51, OK-52, OK-53 and OK-54
- 1 foam lined plastic case 340 x 275 x 83 mm



■ **OK-50**

**Scraper Blade, cranked,
16 mm wide**

■ **OK-51**

**Cutting blade, straight, cranked
cutting depth 50 mm**

■ **OK-52**

**Cutting blade, straight,
cutting depth 35 mm**

■ **OK-53**

**Cutting blade, curved, cranked,
cutting depth 55 mm**

■ **OK-54**

**Cutting blade, straight, cranked
immersion length 90 mm, cutting depth 50 mm**

Robust universal blades for oscillating cutters. Made of hardened stainless steel with a 19 mm double-hexagonal adaptor.

The blades are compatible with the current oscillators from Fein, CP, ProGlass, Rodcraft, Equalizer, etc.



■ **51847**

**Viper blade, short, L-shaped
cutting depth 19 mm**

■ **51848**

**Viper blade, long, L-shaped
cutting depth 25 mm**

■ **51849**

**Viper blade, extra-long, L-shaped
cutting depth 38 mm**

These L-shaped blades are used for cutting out bonded vehicle glasses without damaging the neighbouring pinchweld. At the same time Viper blades are very robust and cut through tough adhesive beads, where other blades just give up and break. Made of hardened steel with a 19 mm double-hexagonal adaptor.

The blades are compatible with the current oscillators from Fein, CP, ProGlass, Rodcraft, Equalizer, etc.

■ **SAR-012**



Air Hose Reel 12 m, blue

Heavy duty composite case construction. With swivelling wall bracket for installation. Polyurethane braided hose. Delivered with one air plug (item no. OP-20M) and one coupler (item no. OC-20F) for immediate use.

Technical data:

- hose length: 12 m
- hose-Ø: 8 x 12 mm
- max. operating pressure: 15 bar

■ **DLL-806**



PU Spiral Coiled Air Hose

Inside-Ø 6.0 mm, 7.5 m long, air connection 1/4"

Connection hose made of flexible polyurethane. The spiral coiled hose can be extended on up to 80 % of its total length (useable length = 6.00 m).

■ **DG-322**



Rotary Joint for air hoses air connection 1/4"

The rotary joint prevents the air hose from damages or early wear-out. Rotatable at 360°.



■ **DLR-160**

**Air Regulator 11 bar (160 psi)
air connection 1/4"**

Very compact air regulator with pressure gauge to regulate the required working pressure.



■ **PT-321**

**Direct lubricator (not filled)
air connection 1/4"**

This handy lubricator can be placed between air hose and tool and maintains the tool. Your air tool will get the right amount of oil automatically.

Please order additional: Air Tool Oil ATO-100



■ **ATO-100**

Air Tool Oil, bottle at 100 ml

This heavy duty air tool oil can be used for all air tools in our catalogue. Air tools must be oiled daily when used regularly. If you use your tool not regularly you must oil it before and after each use (and run the motor for a few seconds).

The bottle with the long fine tip makes it easy to fill the direct lubricator PT-321.



- **OC-20F**
- **OC-20M**

Coupler for compressed Air, inside thread R 1/4"

Coupler for compressed Air, outside thread R 1/4"



- **OP-20F**
- **OP-20M**

Air Plug with inside thread R 1/4"

Air Plug with outside thread R 1/4"



- **OS-20F**

Air socket with inside thread R 1/4"



- **OD-20M**

Air socket with outside thread R 1/4"

■ **FEC-416**



**FEIN SuperCut Automotive FSC 1.6,
in tool case with accessories**

Kit contains:

- 1 electronic oscillator 400 W
11,000-18,500 1/min, net weight: approx. 1.3 kg
- 1 blade exchange key
- 1 sharpening stone
- 1 plastic tool case

■ **FEC-416Q**



**FEIN SuperCut Automotive FSC 1.6Q
with quick clamping system, in tool case with accessories**

Kit contains:

- 1 electronic oscillator 400 W
11,000-18,500 1/min, net weight: approx. 1.45 kg
- 1 blade exchange key
- 1 sharpening stone
- 1 plastic tool case

■ **AFSC-18**



**FEIN Battery-Powered SuperCut Automotive AFSC 18
with quick clamping system, in tool case with accessories**

Kit contains:

- 1 battery-powered oscillator 18 V
11,000-18,500 1/min, net weight (incl. battery) approx. 2.0 kg
- 1 sharpening stone
- 1 protective cover for tool changes
- 2 Li-Ion battery packs 18 V, 2.4 Ah
- 1 battery charger
- 1 plastic tool case



■ **FEC-416Q-A** **FEIN Professional Set For Vehicle Glazing**

Kit contains:

- 1 FEIN SuperCut 1.6Q with plastic tool case (FEC-416Q)
- 3 L-shaped cutter blades, toothed (FB-207)
- 2 L-shaped cutter blades, toothed (FB-208)
- 1 L-shaped cutter blade, toothed (FB-209)
- 1 hook blade (FB-111)
- 1 hook blade (FB-157)
- 2 hook blades (FB-212)
- 1 straight cutter blade Z-bend, with adjustable stop roller (FB-143)
- 1 straight cutter blade, Z-bend, toothed (FB-081)



■ **AFSC-18-A** **FEIN Professional Set For Vehicle Glazing (Battery-Powered)**

Kit contains:

- 1 FEIN Battery-Powered SuperCut 1.6Q with plastic tool case (AFSC-18)
- 3 L-shaped cutter blades, toothed (FB-207)
- 2 L-shaped cutter blades, toothed (FB-208)
- 1 L-shaped cutter blade, toothed (FB-209)
- 1 hook blade (FB-111)
- 1 hook blade (FB-157)
- 2 hook blades (FB-212)
- 1 straight cutter blade Z-bend, with adjustable stop roller (FB-143)
- 1 straight cutter blade, Z-bend, toothed (FB-081)

■ FEC-416Q-KFZ FEIN Professional Set For Automobile Workshops



Kit contains:

- 1 FEIN SuperCut FSC 1.6Q (FEC-416Q) in plastic tool case
- 2 hook blades (FB-076)
- 1 hook blade (FB-079)
- 1 hook blade (FB-101)
- 2 L-shaped cutter blades, toothed (FB-207)
- 1 L-shaped cutter blade, toothed (FB-208)
- 1 Hook blade, reinforced (FB-157)
- 1 straight cutter blade, Z-bend, with adjustable stop roller (FB-143)
- 1 shovel-shaped scraper blade with scrape protection coating (form 129)
- 1 HSS saw blade Ø 80 mm (FSB-103)
- 1 stopper knife

■ FEC-416Q-C FEIN Professional Set For Cargo



Kit contains:

- 1 FEIN SuperCut FSC 1.6Q (FEC-416Q) in plastic tool case
- 2 straight cutter blades, toothed (FB-073)
- 2 straight cutter blade, Z-bend, toothed (FB-081)
- 1 hook-shaped cutter blade, toothed (FB-217)
- 1 curved cutter blade, Z-bend, toothed (FB-072)
- 2 L-shaped cutter blades, toothed (FB-207)
- 1 L-shaped cutter blade, toothed (FB-209)
- 1 hook blade, toothed (FB-212)
- 1 shovel-shaped scraper blade with scrape protection coating (form 105)
- 1 traction cable with fastening



■ **FB-072**

FEIN Cutting Blade
cranked, length 45 mm, package of 2 pieces



■ **FB-073**

FEIN Cutting Blade
straight, length* 56/35 mm, package of 2 pieces



■ **FB-076**

FEIN Hooked Blade
length 24 mm, package of 2 pieces



■ **FB-079**

FEIN Hooked Blade
length 36 mm, package of 2 pieces



■ **FB-081**

FEIN Cutting Blade
cranked, length* 85/60 mm, package of 2 pieces



■ **FB-101**

FEIN Hooked Blade
length 60 mm, package of 2 pieces



■ **FB-107**

FEIN Hooked Blade
length 60 mm, package of 2 pieces



■ **FB-110**

FEIN Hooked Blade
length 40 mm, package of 2 pieces



■ **FB-123**

FEIN Cutting Blade
cranked, length* 110/32 mm, package of 2 pieces

* immersion length/cutting length



■ **FB-147**

FEIN Hooked Blade,
length 32 mm, package of 2 pieces



■ **FB-157**

FEIN Hooked Blade,
length 60 mm, package of 2 pieces



■ **FB-168**

FEIN Cutting Blade
cranked, length 45 mm, package of 2 pieces



■ **FB-176**

FEIN Cutting Blade
straight, length* 74/40 mm, package of 2 pieces



■ **FB-194**

FEIN Cutting Blade
straight, length* 110 mm, package of 2 pieces



■ **FB-207**

FEIN Cutting Blade, toothed,
L-shaped, length 25.4 mm, package of 2 pieces



■ **FB-208**

FEIN Cutting Blade, toothed,
L-shaped, length 19 mm, package of 2 pieces



■ **FB-209**

FEIN Cutting Blade, toothed,
L-shaped, length 38 mm, package of 2 pieces

* immersion length/cutting length



■ **FB-210**

**FEIN Hooked Blade, toothed, reinforced
length 19 mm, package of 2 pieces**



■ **FB-211**

**FEIN Hooked Blade, toothed, reinforced
length 25.4 mm, package of 2 pieces**



■ **FB-212**

**FEIN Hooked Blade, toothed, reinforced
length 38 mm, package of 2 pieces**



■ **FB-217**

**FEIN Hooked Blade, toothed
cranked, length 38 mm, package of 2 pieces**



■ **FBS-129**

**FEIN Scraper Blade Set
containing 2 scraper blades, 12 and 25 mm wide**



■ **FSB-102**

**FEIN Saw Blade
Ø 63 mm, package of 2 pieces**



■ **FSB-103**

**FEIN Saw Blade
Ø 80 mm, package of 2 pieces**

* immersion length/cutting length

■ AEB-406

**Equalizer Excalibur Deluxe Kit
in storage case with accessories**

Pneumatic version of the unique Equalizer Auto Glass Cut-Out tool. Cuts almost any car glass from inside the vehicle.

- Powerful 375 Watt air motor with silencer
- 4,200 rpm for fast and vibration-free cutting
- Extremely compact, light-weight and sturdy tool
- Air connection 1/4 inch, air consumption 230 l/min
- max. operating pressure 6.2 bar (90 psi)

Kit contains:

- 1 air-powered „Excalibur“ tool, net weight approx. 1.6 kg
- 2 x 100 mm, 2 x 300 mm, 1 x 200 mm blades
- 1 serrated blade 200 mm
- 1 x 100 mm, 1 x 200 mm, 1 x 300 mm sheath
- 1 pair of safety glasses
- 1 T-handle hex key 1/8 inch
- 1 video instruction (DVD)
- 1 foam lined plastic case 500 x 375 x 175 mm



■ EM-417XP

**Equalizer Magnum XP Deluxe Kit
in storage case with accessories**

Electric version of the unique Equalizer Auto Glass Cut-Out tool. Cuts almost any car glass from inside the vehicle.

- Powerful and durable 520 Watt electrical motor
- Electronic speed control from 0 - 3,200 rpm
- Ball bearing drive shaft
- Robust gearing

Kit contains:

- 1 electric „Magnum XP“ tool, 230V / 50Hz net weight approx. 2.6 kg
- 2 x 100 mm, 1 x 200 mm, 2 x 300 mm blades
- 1 serrated blade 200 mm
- 1 x 100 mm, 1 x 200 mm, 1 x 300 mm sheath
- 1 pair of safety glasses
- 1 T-handle hex key 1/8 inch
- 1 video instruction (DVD)
- 1 foam lined plastic case 500 x 375 x 175 mm





■ **ESB-1304-P**

**Equalizer Serrated Blade 100 mm,
package of 5 pieces**



■ **ESB-1308-P**

**Equalizer Serrated Blade 200 mm,
package of 5 pieces**



■ **ESB-1312-P**

**Equalizer Serrated Blade 300 mm,
package of 5 pieces**

The serrated Equalizer blades are especially recommended for very hard or extremely wide adhesive beads.



■ **EEB-793-P**

**Equalizer Blade 100 mm,
package of 5 pieces**



■ **EEB-795-P**

**Equalizer Blade 200 mm,
package of 5 pieces**



■ **EEB-797-P**

**Equalizer Blade 300 mm,
package of 5 pieces**

The classical Equalizer blades have a smooth cutting edge. These blades can be re-sharpened manually with a sharpening stone and have a great service life.



■ **EES-804**

Equalizer Sheath, length 100 mm



■ **EES-808**

Equalizer Sheath, length 200 mm



■ **EES-812**

Equalizer Sheath, length 300 mm

The sheath is the unique, patented idea that makes the Equalizer line of tools work. It guides the blade, regulates the cutting depth and protects the interior.



■ **KLR-500**

**ProGlass PUR Remover
bottle at 500 ml**

Polyurethane and butyl can easily enter the sheath and cause excess strain on the drive unit. Therefore you should clean the sheath after each use. We recommend to soak sheath and blade for some time in a PUR remover bath. The special cleaning agent dissolves the adhesions and enables you to remove all adhesive residues from inside the sheaths.



**...not just another
windscreen tool**



**powerful,
light & versatile**

- cuts hard, wide and high polyurethane
- adjustable cutting depth control for every blade
- minimum hand/arm vibration



long blades

easily reach below any dashboard or hard to reach areas



short blades

for good tool control in easy accessible areas



from outside

operates as a powered pull knife that allows cutting from outside for extremely fast removal without physical force



from inside

the flexible and versatile blades follow curved glass as found for example on hatch glasses, safely remove encapsulated glasses



small & versatile

small tool and different blades allow you to work in tight spaces such as small quarter glasses



also for busses and trains

thanks to the variety of blades the BTB tool can be used for the removal of all kind of glasses, panels and mouldings

■ **WK10HD**



BTB Heavy Duty Air Power Tool

- tool only (without blades and accessories)
- exclusive short and fast in-line stroke absorbs reciprocal cutting action of blades
- change blades in less than 10 seconds
- small, powerful and light weight
- cutting depth control system and nylon control head avoids scratching glass or painted panels
- low noise and vibration levels (HAV)
- fully adjustable speed, stroke and power
- motor speed without load max. 6,500 U/min
- air consumption only 140 l/min
- max. operating pressure 6.0 bar

*quicklink to the
product video*



■ **WK7**



■ **WK7L**



Manual Blade Handle for BTB blades

Manual Blade Double Handle for BTB blades

With the manual blade handle and the manual blade double handle you can use all BTB blades also manually.

■ **WK-KEY**



BTB Universal Key

Handy screwdriver for the blade clamping screw on the BTB tool.

■ **WKSTR**



BTB Starter Kit (4 blades)

Besides the air tool this kit contains a basic assortment of accessories for cutting out bonded glasses on modern vehicles.

Kit contains:

- heavy duty air tool WK10HD, net weight approx. 1.6 kg
- blades: WK2, WK4Z-S, WK27S, WK28M
- adjustable cutting depth control arms: WK11BW5, WK11FW
- accessories: WK-KEY, WK7, WK8DSM, WK9, WK11VEL, WK-GA
- training package:
 - users manual, WK12CD introduction CD, WK12TCD training CD
- vinyl tool roll

■ **WKCLS-BX**



BTB Classic Kit (7 blades)

Besides the air tool this kit contains an assortment of accessories that enable you to cut out most bonded glasses on modern vehicles with ease.

Kit contains:

- heavy duty air tool WK10HD, net weight approx. 1.6 kg
- blades: WK2-S, WK3, WK24Z-S, WK24ZR-S, WK27S, WK28M, WK6-M
- adjustable cutting depth control arms: WK11AW, WK11BW5, WK11CW, WK11FW
- accessories: WK-KEY, WK7, WK8, WK9, WK11VEL, WK20, WK-GA
- training package:
 - users manual, WK12CD introduction CD, WK12TCD training CD
- sturdy plastic case

■ WKTEC-BX

BTB Technician Kit (11 blades)

Besides the air tool this kit contains a comprehensive assortment of accessories for fast and simple cutting out of practically all bonded glasses on modern vehicles.

Kit contains:

- heavy duty air tool WK10HD, net weight approx. 1.6 kg
- blades: WK1-S, WK2-S, WK4-S, WK4Z-S, WK4R-S, WK6-M, WK24Z, WK24ZR-S, WK24R-S, WK27S, WK28M
- adjustable cutting depth control arms: WK11AW, WK11BW5, WK11CW, WK11EW, WK11FW
- accessories: WK-KEY, WK7, WK7L, WK8, WK9, WK11VEL, WK20, WK-GA
- training package:
users manual, WK12CD introduction CD, WK12TCD training CD
- sturdy plastic case



■ WKTDM-BX

BTB Tradesman Kit (13 blades)

Besides the air tool this kit contains a comprehensive assortment of accessories for fast and simple cutting out of practically all bonded glasses on modern vehicles including commercial vehicles.

Kit contains:

- heavy duty air tool WK10HD, net weight approx. 1.6 kg
- blades: WK1-S, WK3, WK4R-S, WK4Z, WK5-S, WK6-M, WK24Z-S, WK24ZR-S, WK24, WK27S, WK28M, WK27RM, WK28RS
- adjustable cutting depth control arms: WK11AW, WK11BW5, WK11CW, WK11DW5, WK11EW, WK11FW
- accessories: WK-KEY, WK7, WK7L, WK8, WK9, WK11VEL, WK20, WK-GA
- training package:
users manual, WK12CD introduction CD, WK12TCD training CD
- sturdy plastic case



■ **WK1**

BTB Long Blade, flat, 300 mm long



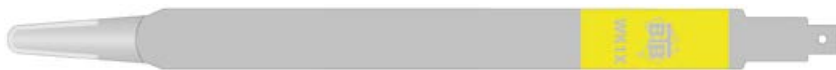
■ **WK1-S**

BTB Long Blade, flat, serrated, 300 mm long



■ **WK1-X**

BTB Extra Long Blade, flat, 370 mm long



■ **WK1-ZX**

BTB Extra Long Blade, cranked, 370 mm long



■ **WK2**

BTB Long Blade, flat, 240 mm long



■ **WK2-S**

BTB Long Blade, flat, serrated, 240 mm long



■ **WK3**

BTB General Purpose Blade, bent, 200 mm long



■ **WK4**

BTB Blade, bent, flexible blade for curved glass, 190 mm long



■ **WK4-S**

BTB Blade, bent, serrated, flexible blade for curved glass, 190 mm long



■ **WK4Z**

BTB Blade, cranked, 140 mm long



■ **WK4Z-S**

BTB Blade, cranked, serrated, 140 mm long





■ **WK5**

BTB Blade, flat, 130 mm long



■ **WK5-S**

**BTB Serrated flat blade,
130 mm long**



■ **WK24-S**

**BTB Long Blade, bent, serrated,
flexible blade for curved glass, 240 mm long**



■ **WK24Z**

**BTB Blade, cranked,
flexible blade for curved glass, 150 mm long**



■ **WK24Z-S**

**BTB Blade, cranked, serrated,
flexible blade for curved glass, 150 mm long**



■ **WK24ZV**

**BTB V-Blade, cranked,
flexible blade for curved surfaces, 150 mm long**



■ **WK24ZV-S**

**BTB V-Blade, cranked, serrated,
flexible blade for curved surfaces, 150 mm long**



■ **WK24ZVR-S**

**BTB Reverse V-Blade, cranked, serrated,
flexible blade for curved glass, 150 mm long**



■ **WK4R-S**

**BTB Reverse Blade, bent, serrated,
flexible blade for curved glass, 190 mm long**



■ **WK4ZR-S**

BTB Reverse Blade, cranked, serrated, 140 mm long



■ **WK24R-S**

BTB Reverse Blade, bent, serrated, flexible blade for curved glass, 240 mm long



■ **WK24ZR-S**

BTB Reverse Blade, cranked, serrated, flexible blade for curved glass, 150 mm long



■ **WK11BW5**

BTB Controller Arm with plastic wheel (large)

For guiding the blade along A-pillar trims or soft headliners. Can be used with all yellow cranked blades as well as WK3 and WK4.



■ **WK11EW**

BTB Controller Arm with metal wheel (thin)

For guiding the blade along uneven adhesive surfaces. Can be used with long blades WK1 and WK1-S.



■ **WK27S**

BTB Left Hand Power Cold Knife Blade, 19 mm tip length



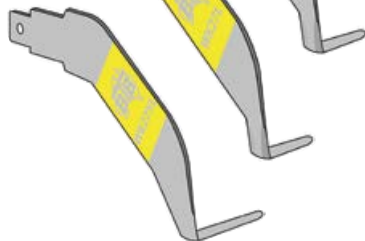
■ **WK27M**

BTB Left Hand Power Cold Knife Blade, 25 mm tip length



■ **WK27L**

BTB Left Hand Power Cold Knife Blade, 30 mm tip length



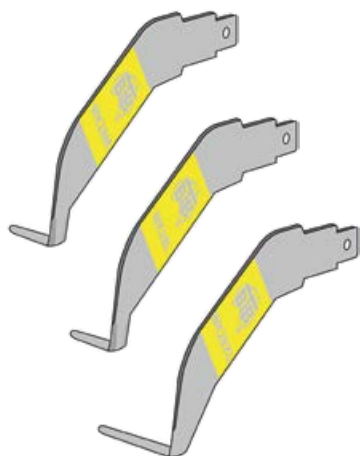
■ **WK27XL**

BTB Left Hand Power Cold Knife Blade, 45 mm tip length



■ **WK27RM**

BTB Left Hand Power Cold Knife Blade, reverse blade, 25 mm tip length



■ **WK28M**

BTB Right Hand Power Cold Knife Blade,
25 mm tip length

■ **WK28L**

BTB Right Hand Power Cold Knife Blade,
30 mm tip length

■ **WK28XL**

BTB Right Hand Power Cold Knife Blade,
45 mm tip length



■ **WK28RS**

BTB Right Hand Power Cold Knife Blade,
reverse blade, 19 mm tip length

■ **WK28RM**

BTB Right Hand Power Cold Knife Blade,
reverse blade, 25 mm tip length

■ **WK28RL**

BTB Right Hand Power Cold Knife Blade,
reverse blade, 30 mm tip length



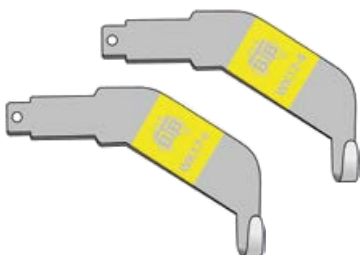
■ **WK11PP**

BTB Paint Protector
for BTB Power Cold Knife Blades



■ **WK16LR**

BTB Moulding Release Blade



■ **WK17-4**

BTB Backfill Removal Blade
4 mm blade channel width

■ **WK17-6**

BTB Backfill Removal Blade
6 mm blade channel width



■ **WK6-40**

BTB Pinchweld Scraper Blade, 40 mm wide

■ **WK6-S**

BTB Winged Pinchweld Scraper Blade, 15 mm wide

■ **WK6-M**

BTB Winged Pinchweld Scraper Blade, 20 mm wide

■ **WK6-L**

BTB Winged Pinchweld Scraper Blade, 25 mm wide



■ **SFE-329**

Equalizer Blade Sharpener

A power tool is only as good as its blade! This blade sharpener is perfect for sharpening all nonserrated Equalizer and BTB blades quickly and easily and is a must for every tool box.



■ **SDS-250**

ProGlass Cutting Lubricant bottle at 250 ml

No matter which power tool you are using: Each blade cuts easier if you spray the adhesive bead with a cutting lubricant. The following is essential to understand: The wider your blade the more important the lubrication to reduce the friction between blade and adhesive bead. Our cutting lubricant is delivered as a concentrate and should be mixed with water at an 1:10 ratio (suitable spray bottles in chapter 14: Cleaning, Maintaining, Coating).





■ **FSK-300**

**ProGlass Pinchweld Scraper Kit
in plastic case, with long scraper tool**

Kit contains:

- 1 pinchweld scraper, long (like item no. FSC-300)
- 10 blades 12 mm wide (item no. SC-313)
- 10 blades 16 mm wide (item no. SC-316)
- 10 blades 20 mm wide (item no. SC-320)
- 1 foam lined plastic case (240 x 215 x 45 mm)

■ **FSK-150**

**ProGlass Pinchweld Scraper Kit
in plastic case, with short scraper tool (not shown)**

Same like FSK-300, but instead of a long scraper tool it comes with a short scraper tool (like item no. FSC-150).

The blades of this pinchweld scraper are sharp like razor blades. The practical clamping mechanism enables a very quick blade exchange without using any tools.



■ **FKM-145**



**Pinchweld Scraper Kit in plastic case,
with short scraper tool and utility knife**

Useful set including a pinchweld scraper tool and a utility knife with numerous replacement blades.

Kit contains:

- 1 pinchweld scraper, short
- 5 blades 12 mm wide (like item no. SC-313)
- 5 blades 16 mm wide (like item no. SC-316)
- 5 blades 20 mm wide (like item no. SC-320)
- 5 blades angled, 16 mm wide (like item no. SCA-316)
- 1 utility knife
- 5 trapezoid blades (in dispenser, like item no. TK-10)
- 1 plastic case (240 x 160 x 50 mm)

FSC-120**ProGlass Scraper with quick change system
120 mm long, with 5 blades 16 mm wide**

Aluminium pinchweld scraper without handle for fine cutting jobs. The practical clamping mechanism enables a very quick blade exchange without using any tools.

Includes 5 pieces of the 16 mm wide blade (like item no SC-316).

FSC-150**ProGlass Pinchweld Scraper with quick blade exchange
150 mm long**

Pinchweld scraper with ergonomically shaped, non-skid handle and short shaft. The practical clamping mechanism enables a very quick blade exchange without using any tools.

Includes 5 pieces of the 16 mm wide blade (like item no SC-316).

FSC-300**ProGlass Pinchweld Scraper with quick blade exchange
190 mm long**

Pinchweld scraper with ergonomically shaped, non-skid handle and long shaft. The practical clamping mechanism enables a very quick blade exchange without using any tools.

Includes 5 pieces of the 16 mm wide blade (like item no SC-316).





- **SC-313**
- **SC-316**
- **SC-318**
- **SC-320**
- **SCA-316**

Scraper Blades 12 mm, package at 10 pieces

Scraper Blades 16 mm, package at 10 pieces

Scraper Blades 18 mm, package at 10 pieces

Scraper Blades 20 mm, package at 10 pieces

Scraper Blades angled, 16 mm wide, package at 10 pieces

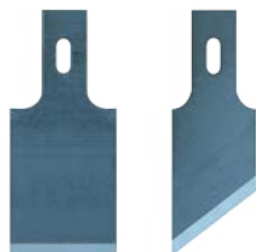


Our high-grade stainless steel scraper blades are optimized for the use with our tools FSC-120, FSC-150 and FSC-300. But they also fit with tools from other manufacturers.

For perfect results the grinded side of the blade faces to the body. By driving the tool in the correct angle you will get a constantly thin layer of remaining material. Damages to the car body can be really avoided.

TIP:

By pulling the loose end of the adhesive bead the blades will cut the material even easier.



- **SCE-012**
- **SCR-006**
- **SCR-012**

Parer Blade, 12 mm wide

Parer Blade, Ø 6 mm

Parer Blade, Ø 12 mm

These parer blades are especially good for cleaning the pinchweld from excessively applied polyurethane in curves and corners. Thereby the special shape reduces the risk of damaging the paint compared to standard scraper blades. The blades are suitable for our scraper tools FSC-150 and FSC-300.

■ **GS-380****Glass Scraper with plastic handle,
for 40 mm wide blades**

Wide scraper with long handle for comfortable use. With its 40 mm wide, razor sharp blades this tool is dedicated to remove labels and to clean glasses from residues.

All metal parts are made of stainless steel. Delivered with 1 blade and a protective cover for safe storage when not in use.

■ **GS-120****Glass Scraper with retractable blade,
for 40 mm wide blades**

Wide scraper with retractable blade for safe use and transportation. With its 40 mm wide, razor sharp blades this tool is dedicated to remove labels and to clean glasses from residues.

All metal parts are made of stainless steel or brass-plated. Includes 1 blade.

■ **MS-6****Mini Scrapers, package of 6 pieces (sorted colours)
for 40 mm wide blades**

The mini scrapers are simply practical and can be used for a million different things!

When not in use, the blade can be flipped so that the metal backed part faces outside. Like that the scraper can be carried in the pocket and is always on hand. Inclusive 1 blade for each piece.

■ **RKK-10****Plastic Razor Blades,
package at 10 pieces**

These plastic razor blades are good for removing stickers and labels from glass surfaces. As the blade is made of plastic it cannot scratch the glass like a metal blade could.



■ **RK-10**

**Scraper blades 40 mm wide
package at 10 pieces**

■ **RK-100A**

**Scraper blades 40 mm wide
package at 100 pieces**

Top quality industrial blades with a thickness of 0.009 (=0.23 mm) and a solid metal back. Each blade has a single paper wrapping in the box to prevent you from injuries.



■ **RK-10HD**

**Heavy Duty Scraper blades 40 mm wide
package of 10 pieces**

■ **RK-100HD**

**Heavy Duty Scraper blades 40 mm wide
package of 100 pieces**

Heavy Duty industrial blades with a thickness of 0.012 (=0.30 mm) and a solid metal back. Each blade has a single paper wrapping in the box to prevent you from injuries.



■ **FSK-003**

Pinchweld Scraper Set, in 3 parts

Set with three different pinchweld scrapers. Fixed blades made of polished spring steel.

- 1 blade approx. 100 mm long, 16 mm wide
- 1 blade approx. 50 mm long, 20 mm wide
- 1 blade approx. 50 mm long, 13 mm wide



■ **SKS-003**

Scraper Set, in 3 parts

Set with three different scrapers. Fixed blades made of polished spring steel. Metal cap at the rear end of the handle.

- 1 blade approx. 100 mm long, 50 mm wide
- 1 blade approx. 100 mm long, 32 mm wide
- 1 blade approx. 100 mm long, 32 mm wide, bent



■ **FSL-213**

**ProGlass Pinchweld scraper with neoprene cover
13 mm wide, exchangeable blade**

■ **FSL-216**

**ProGlass Pinchweld scraper with neoprene cover
16 mm wide, exchangeable blade**

■ **FSL-219**

**ProGlass Pinchweld scraper with neoprene cover
19 mm wide, exchangeable blade**

Standard pinchweld scraper tool (total length: 250 mm) with neoprene cover. The spring steel blade can be re-sharpened and, if necessary, be replaced.



■ **FSS-213**

**Pinchweld Scraper with aluminium handle
13 mm wide, exchangeable blade**

■ **FSS-216**

**Pinchweld Scraper with aluminium handle
16 mm wide, exchangeable blade**

■ **FSS-219**

**Pinchweld Scraper with aluminium handle
19 mm wide, exchangeable blade**

Well-priced pinchweld scraper tool (total length: 240 mm). The spring steel blade can be re-sharpened and, if necessary, be replaced.



■ **SK-113**

Scraper blade, 13 mm wide, 140 mm long

■ **SK-116**

Scraper blade, 16 mm wide, 140 mm long

■ **SK-119**

Scraper blade, 19 mm wide, 140 mm long

Spring steel pinchweld scraper blades suitable for all pinchweld scrapers of this page and many standard pull knives.

NOTE: The 13 and 16 mm wide blades do not fit with quick release pull knives.



■ **KSC-019**

Plastic Scraper, 19 mm wide

■ **KSC-025**

Plastic Scraper, 25 mm wide

Sturdy fiber-reinforced scrapers for the removal of bonded rails and badges.



■ **UCH-319**

U-Groove Parer Knife with pull handle

With the round shape of its blades this knife is able to clean excessive polyurethane from the pinchweld where a normal pinchweld scraper will not work. Two different wide blades let you cut narrow or wide grooves.

Includes one small and one large blade.



■ **UCC-320**

U-Groove Parer Knife without pull handle

With the round shape of its blades this knife is able to clean excessive polyurethane from the pinchweld where a normal pinchweld scraper will not work. Two different wide blades let you cut narrow or wide grooves.

Includes one small and one large blade.



■ **UCS-321**

Small Parer Blade, for UCH-319 and UCC-320

width of cut: approx. 7 mm
depth of cut: approx. 18 mm



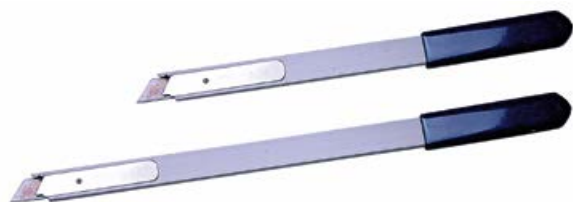
■ **UCL-322**

Wide Parer Blade, for UCH-319 and UCC-320

width of cut: approx. 9 mm
depth of cut: approx. 18 mm

■ **BK-315****Banana Knife with serrated blade
total length 320 mm**

The blade is serrated on the inside and sharpened on the outside. With its bent shape it is ideal to cut a polyurethane bonding where pull knives or cut-out tools will not work (e. g. the lower corners of a windscreen that are often covered by the wings). Thanks to its long narrow blade it has an extremely good reach and outmatches a standard long knife.

■ **BK-230****Replacement Blade for Banana Knife BK-315**■ **LM-460**■ **LM-610****ProGlass Long Knife 460 mm long****ProGlass Long Knife 610 mm long**

Rugged long knife made of aluminium with a non-skid neoprene covered handle. Integrated spare blade compartment. Includes 2 trapezoid blades.





■ **UML-332**

Utility Knife SMART-EDGE

Ergonomically shaped knife, also for big hands, with non-skid rubber platings. The blade is fully retractable. The blade length can be regulated with the slide in multiple steps. It has an eject button to exchange the blade rapidly and without using a screwdriver. Replacement blades can be stored in the integrated blade compartment. Includes 5 trapezoid blades.



■ **UMS-437**

Utility Knife AMERICAN-LINE

This light-weight and handy utility knife with black painted aluminium handle has a fully retractable blade, a multi-step blade length adjustment and offers a spare blade compartment inside the handle. The solid blade holder inside is also made of metal so the blade will not slip out under heavy use. Includes 1 trapezoid blade.



■ **UMF-344**

Utility Knife with fixed blade

The rugged knife with silver painted, chequered aluminium handle is the right companion for all heavy duty jobs. Because the blade is fixed between the two handle parts it will not slip out - even under heavy use. To replace the blade just swivel the red bayonet socket and open the handle. Replacement blades can be stored inside the handle. Includes 3 trapezoid blades.



■ **TK-5**

Trapezoid Blades, package at 5 pieces



■ **TK-10**

Trapezoid Blades, dispenser at 10 pieces



■ **TKS-100**

Trapezoid Blades Dispenser with 100 blades

The dispenser lets you easily withdraw new blades individually. Used blades are inserted at the top of the dispenser and so they are safely put away.



■ **XUB-05**

Trapezoid Blades, extra long, package at 10 pieces

The cutting length of these blades is 120 mm while standard trapezoid blades are only 60 mm long. This blade increases the range by 60 mm!

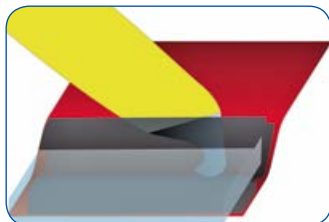
NOTE: When using a retractable blade knife these extra long blades will not be retracted completely.



■ **HK-5**

Hooked Blades, package at 5 pieces

The hooked blades are perfect for cutting off rubber seals from installed glasses without damaging the car body because only the non-cutting part on the outside is facing to the body.



■ XL-2



Olfa® Long Knife for 18 mm wide blades with 1 snap-off blade

■ L-2



Olfa® Knife for 18 mm wide blades with 1 snap-off blade

■ LB-10



Olfa® Snap-Off Blades 18 mm, package at 10 pieces

■ LBB-10



Olfa® Snap-Off Blades extra sharp, 18 mm wide package at 10 pieces



■ LSOL-10



Olfa® Solid Blades 18 mm, not segmented, package at 10 pieces



■ **SVR-2**

Olfa® Silver Knife for 9 mm blades with 3 snap-off blades

Knife and blades are made of stainless steel - therefore this is the ideal tool for the installation of window films.



■ **OL-30**

Olfa® Knife for 9 mm blades with 1 snap-off blade

A small and handy knife with 9 mm wide snap-off blades for all fine jobs.



■ **AB-10**

Olfa® Snap-Off Blades 9 mm package at 10 pieces



■ **ABB-50**

Olfa® Snap-Off Blades extra sharp, 9 mm wide package at 50 pieces



■ **AB-10S**

Olfa Snap-Off Stainless Steel Blades 9 mm package at 10 pieces



■ H-1

**Olfa® Extra Heavy Duty Cutter
with 1 snap-off blade**



■ HB-5

**Olfa® Snap-Off Blades 25 mm
package at 5 pieces**



■ MESSER-C

Knife CUTTEX 9 mm

Snap-off blade knife CUTTEX by Martor Solingen with ProGlass logo and imprint:

www.proglass.de

Tel. 07023/900130

Blade size 9 mm. Suitable replacement blade item no. ABC-10.



■ ABC-10



**Martor Snap-Off Blades, 9 mm wide,
package at 10 pieces**

Replacement blades for the knife CUTTEX 9 mm



■ CEG-148

Clip Remover „Pig Foot“, wide

Simple Clip Remover for door coverings. For easy removal of door coverings without damaging the plastic clips.



■ CE-657

Clip remover, small

A clip remover with a particular narrow and fine tip. With the pointedly approaching v-notch, it is especially suitable for very small clips at newer vehicle models.



■ CE-607

Clip-Remover, angled

This clip remover is ideal for the removal of cowling clips in recessed holes and areas.



■ CES-125

Clip-Remover Kit, in 2 parts

The two clip removal tools in this kit have a fine tip and are very strong at the same time. They help you to remove all those small clips that were almost impossible to reuse because you were never able to remove them without damage.





■ **CE-590**

Clip Removal Tool

Very flat clip removal tool for all kind of clips with a reach of 10 cm even for clips far underneath the door lining. The other side has a reach of 5 cm and offers thereby a larger lever force.



■ **CZ-540**

Clip Removal Pliers to dismantle clips and linings

Clip pliers for professional removal of plastic clips, no scratches or dents at the coachwork. Dismantling of door linings without damage.



■ **CS-696**

TrimClip Pliers to dismantle clips and linings

Pliers with extra flat jaws with 3 different recesses. Each type and size of clips can be grabbed easily and safely.



■ **CDZ-195**

Clip Pliers

Thanks to the specially designed jaws these pliers can also remove very flush installed clips and two-part clips.



■ CES-250

Clip Remover Kit, in 5 parts

These five tools made of polished steel cover the whole range of door and lining clips. With this kit you can remove almost all clips fast, easily and without damage.



■ MHS-068

Hook and Pick Set, in 4 parts

These mini hooks are only about 100 mm long. They are very helpful where 'normal' hook tools do not work.



■ MHK-069

Ball-tipped Mini Hook Set, in 4 parts

These ball-tipped mini hooks are very helpful where standard-sized ball-tipped hooks do not work.

The ball diameter of each tool is 3.0 mm.



■ MHD-110

Double Mini Hook, set of 2 pieces

These mini hooks have a long reach and can help you to adjust rubber mouldings where all other hook tools are simply too big. They are also great little helpers to pick up small pieces.

■ **LH-230**



Trim Jack, heavy duty model

Heavy duty trim jack for removing tight metal trims and all other hardly to remove mouldings. Total length 230 mm.

■ **RFM-683**



Trim Jack

Mainly used to remove re-usable trims. The wide and flat form as well as the curvature enables to lift the trim without damaging. In addition it is perfect to lever simple rubber or plastic mouldings or trims with a metal core. Total length 205 mm.

■ **DHS-360**



Dismantling Lever Set, made of plastic, in 5 parts

Dismantling of clips, trims and linings with metal tools, often causes damages like scratches. Therefore this five parts tool is completely made of sturdy and loadable plastics. It is a must for each car glass workplace.

■ **CEK-180**



Clip & Strip Remover



■ **LEC-SET1**

Clip and Strip Remover Kit, in 4 parts

4 straight clip and weather strip removers made of durable plastics.

Kit contains:

- 1 weather strip remover, flat (item no. LEC-175F)
- 1 straight clip remover, L-shaped (item no. LEC-175FL)
- 1 straight clip remover, V-shaped (item no. LEC-175FV)
- 1 straight clip remover, Z-shaped (item no. LEC-175FZ)



■ **LEC-175F**

Weather Strip Remover, flat



■ **LEC-175FL**

Straight Clip Remover, L-shaped



■ **LEC-175FV**

Straight Clip Remover, V-shaped



■ **LEC-175FZ**

Straight Clip Remover, Z-shaped



■ LEC-SET2

Clip and Strip Remover Kit, in 3 parts

3 bent clip and weather strip removers made of durable plastics.

Kit contains:

- 1 weather strip remover, bent (item no. LEC-175G)
- 1 bent clip remover, U-shaped (item no. LEC-175GU)
- 1 bent clip remover, V-shaped (item no. LEC-175GV)



■ LEC-175G

Weather Strip Remover, bent



■ LEC-175GU

Bent Clip Remover, U-shaped



■ LEC-175GV

Bent Clip Remover, V-shaped



■ BMR-1488

Belt Moulding Remover



When removing a belt moulding it is important that you can save it. This tool slides down into the door opening and pulls out the moulding easily without any damage.



■ DLH-511

Moulding Release Tool with two hook ends

Classical moulding release tool with two hook ends. Rubber spacers at the bottom avoid scratches on glass or varnishing.



■ BND-2882

Blind Rivet Pliers with twistable head

Some rivets are put into places that are almost inaccessible. This tool has a 360° twistable head that works in all directions. By that the nose can reach almost everywhere. Comes with four different nose pieces and a wrench to change them.



■ BNZ-2685

Blind Rivet Pliers, standard

Standard riveting tool with an extended nose length. Thanks to the long nose this tool lets you install rivets in vehicle doors with ease. Comes with four different nose pieces and a wrench to change them.



■ BN-308

Blind Rivets, 3.0 x 8 mm, package at 50 pieces

■ BN-326

Blind Rivets, 3.2 x 6 mm, package at 50 pieces

■ BN-408

Blind Rivets, 4.0 x 8 mm, package at 50 pieces



■ **WAB-150**

Wiper Arm Puller BMW
shank width: 23 mm, working height: 37 mm

Heavy wiper arm puller for BMW from series E32/E34. This tool is designed very similar to the original BMW tool and has exactly the same function.



■ **WAF-1535**

Wiper Arm Puller with flexible shank width
15-35 mm, working height 40 mm

Heavy wiper arm puller for almost all BMW series and Rolls Royce RR1 and RR2.

Also perfect for many other cars!



15 mm - 35 mm



■ **DWR-120**

Wiper Arm Puller, Heavy Duty
shank width: 16 mm, working height: 38 mm

Extremely loadable wiper arm puller. For use on almost all passenger cars and many commercial vehicles. Especially recommended for the BMW E34 (5) and E32 (7) series, that have wipers with adjustable inclination.



■ **TE-125**

TORX Socket T80 for 1/2" drive

This TORX Socket T80 is needed for dismantling the wiper cover of the BMW E32 and E34 series.



■ **HWA-2636**

Wiper Arm Puller "EasyLift II"
shank width: 26 mm, working height: 38 mm

The EasyLift II fits for Audi models from 2001. The wiper arm puller is designed for heavy use. It also offers a brass cap to protect the wiper arm thread against damage.



■ **EWA-1702**

Wiper Arm Puller Easy Lift
shank width: 18 mm, working height: 32 mm

This wiper arm puller is trouble-free applicable under casted air deflators. It can also be used for nearly all other types of wipers. Made of specially hardened steel.



■ **ZAW-090**

Wiper Arm Puller, universal
shank width: 38 mm, working height: 28 mm

A sturdy tool for use on almost all passenger cars and many commercial vehicles, because of a large-scale adjustment to pull of the wipers.



■ **WAV-899**

Wiper puller Volkswagen Group
shank width: 63 mm, working height: 63 mm

Suitable for most models from the Volkswagen group and many others. To protect the wiper arm bolt the large screw is hollow. So to use this tool the wiper arm nut must be loosened, but must remain on the bolt. By that the screw of the tool is holding up against the nut.



■ **WAN-3650**



Wiper Arm Puller Audi Q7
shank width: 36 mm, working height: 16 mm

Compact and very robust wiper arm puller, especially designed for the wiper arm of the Audi Q7 and other models with similar wiper arm construction.



■ **SWA-2316**

Standard Wiper Arm Puller
shank width: 16 mm, working height: 26 mm

A universal wiper arm puller with clamping screw for easy handling (without extra tool). Suitable for many vehicles.



■ **WAZ-919**

Wiper Arm Pliers

Multi-purpose pliers to remove most standard wiper arms. Not suitable for heavy load.



■ **UAZ-1950**

Wiper Arm Puller, heavy-duty
shank width: 18 mm, working height: 48 mm

Real heavy universal puller for various jobs - also fits for many wiper arms.



■ **RMP-416**

Installation Pliers for rearview mirrors with bayonet clamp

With these pliers you can easily remove and install all rearview mirrors with bayonet clamp (e. g. most VW and Audi models). No risk of damaging the windscreen or the mirror.



■ **RMP-416-1**

Replacement Plastic Jaws for (1 pair) RMP-416

(not shown)



■ **CE-749**

Special Tool for C-Clips

For the removal of 'C'-shaped clips on window handles (e. g. Opel).



■ **CTM-310**

Moulding Installer

To install a flush-mounted moulding by using your thumbs often produces an uneven and rippled appearance. With this tool you can simply roll the moulding in place and you will get a smooth and untouched appearance. Also suitable for mounting weather strips.



■ **GH-701**

Rubber Hammer Ø 50 mm weight: 380 gr

Almost indispensable tool to install mouldings and linings.



■ STS-039

Socket Set 1/4 drive in 39 parts

Made of robust chrome-vanadium steel. Delivered in a sturdy plastic box (245 x 130 x 44 mm) with molded insert.

Kit contains:

- 1 ratchet wrench (72 teeth)
- 1 hand grip
- 1 short extension
- 1 large extension with toggle function
- 1 cardan joint
- 13 hexagon sockets (4/4,5/5/5,5/6/7/8/9/10/11/12/13/14)
- 4 cross-head bits (PH1/PH2/PZ1/PZ2)
- 2 slotted bits (5,5 / 7)
- 5 hexagon I-keys (1,2/1,5/2,0/2,5/3,0)
- 3 allen insert (4/5/6)
- 7 Torx (T8/T10/T15/T20/T25/T27/T30)



■ RSS-0819

Ratchet Wrench Set of 7 pieces

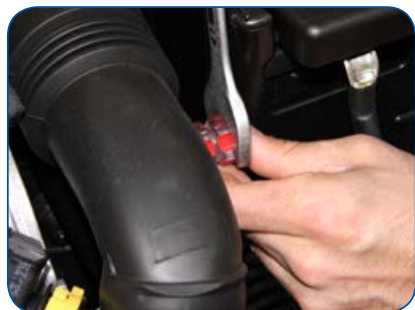
- The professional ratchet mechanism has a gear with 72 teeth (5° returning angle) and allows you to work on narrow places.
- With their small ring end side these wrenches are the perfect alternative to classical ratchets and nuts.
- The wrenches conform to ANSI standard. However, opening very hard fixed screws with the gear-side could break the gear mechanism.
- The set includes the wrench sizes 8, 10, 12, 13, 14, 17 and 19 mm.
- Delivered on a wall-mountable plastic support.



■ **SDM-421**

Mini Screwdriver Set

Who doesn't know that! You can see the screw but no screwdriver can reach into the narrow space above the screw head. That's a job for the only 3.4 cm long mini screwdrivers! The set contains 2 Phillips screwdrivers (PH0, PH1) and 2 slotted screwdrivers (5 mm, 6 mm).



■ **MB-743**

**Rearview Mirror Screwdriver
TORX T15 / TORX T20**



■ **MB-744**

**Rearview Mirror Screwdriver
hex driver 2.0 mm / hex driver 2.5 mm**



■ **MBR-600**

Rearview Mirror Screwdriver
TORX T15 / Phillips PH1



■ **MSP-2030**

Nut Splitter Set

If a nut is so damaged that you can not open it you should have a nut splitter available. The smaller one has an eye diameter of 20 mm, the bigger one of 30 mm. Total length is 117 resp. 150 mm.



■ **WSS-106**

Angle Screwdriver without handle
for use with the cordless driver

Screwdriver bits fix magnetically. Fits for all 1/4 inch bits.

■ MS-180



**Installation Stick Round/Flat
of ivory coloured plastic, 200 mm long**

The round end of the plastic installation stick is appropriate for working on rubber mouldings or render a fresh PU bead, the flat scraper end is good to use for cleaning and removing excessive polyurethane. A tool with almost unlimited applications.

■ MS-181



**Installation Stick Round/Round
of ivory coloured plastic, 200 mm long**

Plastic installation stick with two rounded ends for working on rubber mouldings or render a fresh PU bead. A tool with almost unlimited applications.

■ IWH-692



Handle with installation stick round/round

Handle with one installation stick with 2 round ends (like MS-181). The installation stick is fastened with a set screw.

■ ISH-691



Handle for installation stick

Hollowed out handle to hold an installation stick MS-180 or MS-181. The installation stick is fastened with a set screw.

**■ HLK-012****Lift Support Clamp**

This clamp enables you to fix old pneumatic springs of bonnets or hatches. Open the bonnet up to the desired angle, attach the clamp - fix it - ready.

**■ THH-540**

Telescopic Bonnet Holder
made of aluminum, in 3 parts

■ THH-540-G

Set of Replacement Rubber Caps for THH-540

Keeps the bonnet or hatch open at any desired angle. Telescopic bonnet holder stepless adjustable from 54 to 120 cm.



■ LB-300



**Power-Lifter
inflatable bag 15 x 20 cm**

The PowerLifter facilitates detaching bonded glasses, regardless of the method used. You place the bag at an already detached point between the glass and the car body and inflate it. Lifting the glass, stretches the remaining PU bead, which can now be much easier detached. The bag is made of fibre-reinforced fabric, which is extremely tough and loadable. Only at about 150 kg the pressure-relief valve opens.



■ LB-400



**Power-Lifter, long version
inflatable bag 15 x 40 cm**

The extended PowerLifter can be used flat or folded. By that it can lift the glass from the top edge much more. The big PowerLifter can be used even more universally than its small brother LB-300. The bag is made of fibre-reinforced fabric, which is extremely tough and loadable. Only at about 150 kg the pressure-relief valve opens.

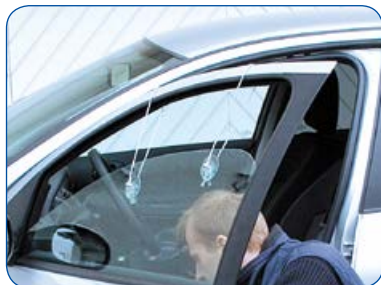




■ SSH-290

Window Holder Set

Holds the side window while you are working on the window lifter so that you have both hands free. This window holder set also keeps a windscreen from sliding down while the polyurethane hardens (fix one end on the glass, the other end on top of the car). Very stable due to cast-in thread. Cable length 45 cm.



■ FDS-700

Flexible Double Suction Cup

The flexible double suction cup is the best to secure a freshly bonded windscreen. These suction cups stay exactly in position and will not let the glass move a single millimeter! Made of two plastic suction heads with 80 mm rubber disks, connected with a foam covered steel cable (cable length 42 cm).





■ FIL-080-P

■ FIL-080

Moulding Clamp, blue, package at 6 pieces

Moulding Clamp, blue, single

Versatile capabilities:

- retains freshly bonded mouldings, badges or mirror plates
- press on freshly bonded vehicle glazings (e. g. if the upper corners do not align properly)
- prevents freshly bonded vehicle glazings from sagging (fix the sucker to the window to hold it up against the roof)



■ FIX-080-P

■ FIX-080

Moulding Clamp, red, package at 6 pieces

Moulding Clamp, red, single

This version has a long slotted hole instead of the three single fixing holes. So it can be easier positioned. The PVC suction cup with a diameter of 80 mm holds on glass as well as on metal.

Versatile capabilities:

- retains freshly bonded mouldings, badges or mirror plates
- press on freshly bonded vehicle glazings (e. g. if the upper corners do not align properly)
- prevents freshly bonded vehicle glazings from sagging (fix the sucker to the window to hold it up against the roof)







■ SLP-101

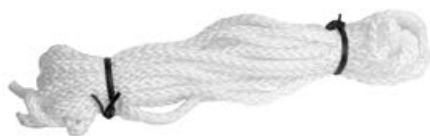
Rope Insert Tool for passenger vehicles
tube outside-Ø: 6 mm, rope length: 6 m

An indispensable tool for the replacement of glasses that are installed with a rubber gasket. With the curved tube you easily place the rope in the channel of the rubber profile. Thanks to the ergonomically shaped handle the rope does not carve into your fingers while installing the rubber moulded glass.

■ SLP-101-01

Replacement Rope 6 m for Rope Insert Tool SLP-101

Very flexible and high-tensile rope made of fine nylon netting.



■ SLN-102

Rope Insert Tool for commercial vehicles
tube outside-Ø: 8 mm, rope length: 9 m

An indispensable tool for the replacement of glasses that are installed with a rubber gasket. With the curved tube you easily place the rope in the channel of the rubber profile. Thanks to the ergonomically shaped handle the rope does not carve into your fingers while installing the rubber moulded glass.

■ SLN-102-01

Replacement Rope 9 m for Rope Insert Tool SLN-102

Very flexible and high-tensile rope made of fine nylon netting.





■ **LT-750**

Locking Strip Tool with 2 double end tips

General purpose tool with two double end tips = four different sized eyelets. Tips are fixed with a big knurled head screw and so no additional tool is required for turning and exchanging the tips. Suitable for locking strips of approx. 6 - 15 mm width.



■ **LT-750-1**

Replacement Eyelet Set (2 pieces) for LT-750

Inner dimensions of the eyelets:

7.5 (14.5) mm / 13.5 mm / 11.0 mm / 16.0 mm



■ **LT-415**

Locking Strip Tool with interchangeable eyelets

With this locking strip tool you can install all locking strips with a width from 8 - 19 mm. All eyelets can also be combined with the roller wheel (installed on the picture) to easily install locking strips.



■ **LT-415-1**

Replacement Eyelet Set (5 pieces) for LT-415

Inner dimensions of the eyelets:

9.5 mm / 10.5 mm / 11.5 mm / 12.5 mm / 13.5 mm

material thickness: 2.0 mm

■ MS-180



**Installation Stick Round/Flat
of ivory coloured plastic, 200 mm long**

The round end of the plastic installation stick is appropriate for working on rubber mouldings or render a fresh PU bead, the flat scraper end is good to use for cleaning and removing excessive polyurethane. A tool with almost unlimited applications.

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Plastic installation stick with two rounded ends for working on rubber mouldings or render a fresh PU bead. A tool with almost unlimited applications.

■ IWH-692



Handle with installation stick round/round

Handle with one installation stick with 2 round ends (like MS-181). The installation stick is fastened with a set screw.

■ ISH-691



Handle for installation stick

Hollowed out handle to hold an installation stick MS-180 or MS-181. The installation stick is fastened with a set screw.



■ **GH-701**

Rubber Hammer Ø 50 mm
weight: 380 gr

Almost indispensable tool to install mouldings and linings.



■ **CTM-310**

Moulding Installer

To install a flush-mounted moulding by using your thumbs often produces an uneven and rippled appearance. With this tool you can simply roll the moulding in place and you will get a smooth and untouched appearance. Also suitable for mounting weather strips.



■ **MHS-068**

Hook and Pick Set, in 4 parts

These mini hooks are only about 100 mm long. They are very helpful where 'normal' hook tools do not work.



■ **MHK-069**

Ball-tipped Mini Hook Set, in 4 parts

These ball-tipped mini hooks are very helpful where standard-sized ball-tipped hooks do not work.

The ball diameter of each tool is 3.0 mm.



■ **MHD-110**

Double Mini Hook, set of 2 pieces

These mini hooks have a long reach and can help you to adjust rubber mouldings where all other hook tools are simply too big. They are also great little helpers to pick up small pieces.



■ **GH-753**

Pointed Hook, special shape „L“

The double bent hook is great to leverage a rubber profile over the pinchweld's edge.

total length: 190 mm



■ **GHS-140**

Pointed Hook, with short shaft

total length: 200 mm



■ **GHS-280**

Pointed Hook, with long shaft

total length: 280 mm



■ **GHK-140**

Ball-Tipped Hook, with short shaft

ball-Ø: 4.5 mm

total length: 200 mm



■ **GHK-280**

Ball-Tipped Hook, with long shaft

ball-Ø: 5.0 mm

total length: 280 mm

■ GH-738

Pointed Hook, special shape „U“

The tridimensionally bent hook is great for working on rubber moulded glasses and for dismantling plastic panels.

total length: 210 mm



■ GH-749

Pointed Hook, special shape „V“

The tridimensionally bent hook is great for working on rubber moulded glasses and for dismantling plastic panels.

total length: 210 mm



■ AHL-818

Equalizer Pointed Hook with long shaft

Pointed hook with long shaft and extra-long hook.

total length: 320 mm



■ AHT-817

Equalizer Pointed Hook with short shaft

Pointed hook with short shaft and extra-long hook.

total length: 220 mm







■ **GBZ-200**

Glass Breaking Pliers 200 mm long
jaw width approx. 25 mm



■ **GBZ-225**

Glass Breaking Pliers 225 mm long
jaw width approx. 25 mm



■ **GC-130**

Glass Cutter, full metal version
130 mm long

- straight edge stand-off distance 1.8 mm
- cutting angle 120°



■ **GCM-130**

Glass Cutter with turnable head
130 mm long

- straight edge stand-off distance 2.5 mm
- cutting angle 135°
- wooden handle



■ **GCK-119**

**Glass Cutter with rounded handle
119 mm long**

- straight edge stand-off distance 2.0 mm
- cutting angle 135°



■ **GCO-170S**

**Oil Glass Cutter with narrow head
170 mm long**

- heavy metal cutter
- narrow cutting head
- straight edge stand-off distance 2.5 mm
- cutting angle 135°
- handle made of aluminium with oil tank



■ **GCO-170L**

**Oil Glass Cutter with wide head
170 mm long**

- heavy metal cutter
- wide cutting head
- straight edge stand-off distance 2.5 mm
- cutting angle 135°
- handle made of aluminium with oil tank



■ **OGC-118**

**Oil for glass cutters
bottle at 118 ml**



- **FTL-430**
- **FTL-430-1**

LED Torch with flexible shaft

Replacement Bulb for FTL-430

Requires three 1.5 V Lady batteries (not included).



- **FTL-402**
- **FTL-402-1**

Mini Torch with flexible shaft

Replacement Bulb for FTL-402

The torch comes with a small removable magnet tip. This makes it easy to find and pick up lost screws in a vehicle. Requires two 1.5 V AA batteries (not included).



- **PF-216**
- **PF-216-1**

Penlight

Replacement Bulb for PF 216

Ball-pen shaped mini torch made of painted tin and plastics. Requires two 1.5 V AAA batteries (not included).



- **BA-LADY** Alkaline Battery 1.5V, type LADY
- **BA-MICRO** Alkaline Battery 1.5V, type AAA
- **BA-MIGNON** Alkaline Battery 1.5V, type AA

■ **PL-140****LED Penlight**

Ball-pen shaped LED torch with very bright LED. Made of painted tin and plastics. Requires two 1.5 V AAA batteries (**included**).

■ **TL-130****LED Torch**

Robust and handy pocket lamp made of anodized light metal. The bright LED light is evenly dispersed by a lens. A distance of 10 cm results in an evenly bright spot with a diameter of approx. 4.5 cm (angle of radiation ca. 12°). With clip for safe transportation in your pocket. Colour: anthracite. Requires two 1.5 V AAA batteries (not included).

■ **LC-014-S****Torch Clip With Suction Cup**

Plastic clip to hold the TL-130 and other small torches with a diameter of 15-16 mm. Insert the torch in the flexible holder and fix it easily to all smooth surfaces. Alternatively you can clip the torch almost anywhere.

■ **LC-014-M****Torch Clip With Magnet**

Plastic clip to hold the TL-130 and other small torches with a diameter of 15-16 mm. Insert the torch in the flexible holder and fix it easily to all magnetic surfaces. Alternatively you can clip the torch almost anywhere. The magnet is detachable.





■ **ULF-481**

Ultrasonic Leak Detector

The ultrasonic leak detector makes it easy to find leak points quickly and reliably, e. g. on bonded glasses. The set includes an ultrasonic transmitter, a receiver and headphones. Requires two 9 V batteries (not included).

Note:

This device is operating with ultrasonic waves. Even smallest leaks can be indicated very reliably. But leaks on bonded vehicle glazings can only be found on dry vehicles! If the vehicle to test is wet you must first let it dry completely before you can use this leak detector to identify a leak on the adhesive bead. Also the glasses edge respectively the pinchweld must not be covered by any trims and mouldings. These parts will also hinder the ultrasonic waves and make it therefore impossible to find any leaks underneath.



■ **TSP-2550**

Telescopic Mirror 25 x 50 mm

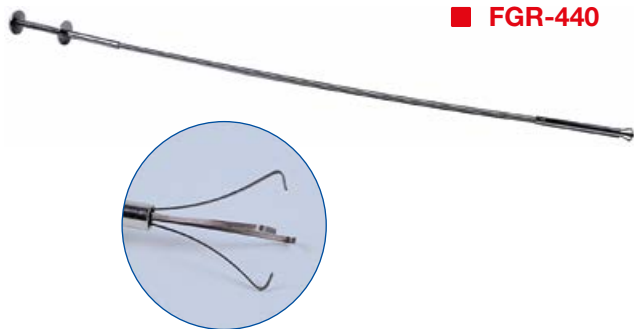
Small longish telescopic mirror with a clip to carry it in your shirt pocket, extendable from 11 - 44 cm.



■ **TSP-5050**

Telescopic Mirror Ø 50 mm

Big round telescopic mirror, extendable from 18 - 32 cm.



■ **FGR-440**

Flexible Grabber

Flexible Grabber with four claws for picking up small parts from difficult to reach areas.

Length 60 cm, max. opening of claws ca. 20 mm.



■ **MH-120**

Telescopic Magnet

The telescopic magnet is a real multi-purpose tool. The extremely strong magnet is capable to lift and carry weights up to 1.5 kg! Extendable from 12 - 60 cm.



■ **MSK-356**

Magnet Bowl for small parts Ø 150 mm

The bowl can be placed almost everywhere on a vehicle because the bottom has a rubber cover to avoid scratches. The strong magnet surely holds the bowl itself and all magnetic contents.



■ **GHK-560**

Ball-Tipped Hook with extra long shaft

This extremely long tool is great for cleaning glass run channels in vehicle doors. By moving the round tip up and down in the run channel it will push out any loose parts without damaging the rubber.

ball-Ø 6.0 mm, total length: 540 mm

■ LTK-170



Lockout Tool Set
professional tool kit to open car doors

It can easily happen that you lock yourself out, while working on a clients car. The lock-out tool kit enables you to cope with the situation. You open the car door without damaging painting, moulding or lining.

Tool kit in 17 parts with an illustrated manual, in a black folding bag made of sturdy synthetic leather (see small fig.).

NOTE:

Will not work on modern vehicles with an electronically controlled locking system.

■ KSK-4510



Plastic wedges
set of 2 pieces

The plastic wedges are made of an impact-resistant material.

length 10 cm, width 4.5 cm, height 2.3 cm

■ TSP-292



Equalizer TightSpot Paint Protector
set of 2 pieces

Sometime you have to park cars so close together that the open door could damage the next vehicle. When this happens you need a Set of TightSpots. They are made of dense foam rubber block and a vacuum cup that holds the block in the right position.

■ **RH-727****Rolling Work Seat 45 x 33,5 x 25 cm**

Solid rolling work seat with three open compartments and one sub-divided compartment under the lid. With four robust swivelling rollers made of plastic (roller Ø: 50 mm).

- load capacity: 110 kg
- very good manoeuvrability thanks to the 360° swivelling casters
- practical compartments for tools and small parts
- for convenient working on door glasses
- also perfect for headlight restoration
- allows a knee- and back-friendly work position

■ **AKS-144****Panasonic Cordless Drill 14.4 V**

High-power, robust and compact cordless drill with Li-Ion battery technology. 2-step gear for powerful screwing and fast drilling. Delivered with 2 battery packs (1.5 Ah), battery charger and plastic tool case.

■ **BP-144****Li-Ion Battery Pack 14.4 V, 1.5 Ah
for AKS-144**

■ **KM-130**

■ **KM-140**

■ **KM-150**



Putty Knife 30 mm wide, with solid wooden handle

Putty Knife 40 mm wide, with solid wooden handle

Putty Knife 50 mm wide, with solid wooden handle

These putty knives have a flexible steel blade with a big wooden handle and are very suitable to produce sealing joints on commercial vehicles, as well as other jointing work.

Blade length: 110 mm

Total length: 220 mm

■ **KM-1140**



Glazing Knife, sabre-shaped

Glazing knife with wooden handle for glazing and jointing work.

blade length: 110 mm

blade width: 40 mm

■ **KM-9527**



Glazing Knife, straight shape

Glazing knife with wooden handle for glazing and jointing work.

blade length: 95 mm

blade width: 27 mm



PI-150

■ **PI-150**

**Power Inverter 12V / 230V (150W / 300W max.)
with plug for power outlet/cigarette lighter**

■ **PI-300**

**Power Inverter 12V / 230V (300W / 600W max.)
with plug for cigarette lighter and crocodile clamps**

■ **PI-400**

**Power Inverter 12V / 230V (400W / 1200W max.)
with plug for cigarette lighter and crocodile clamps**

Small, handy power inverters electrical or electronical appliances for 230 V connection can be used with 12 V vehicle power systems. With the included cables the inverters can be connected to vehicle power outlets or directly with the vehicle's battery.

The power inverters have a (permanent) output power of 150, 300 or 400 W and are provided with an overload protection, a reverse battery protection (fuse) and an automatic switch-off to protect the battery from total discharge.

These inverters deliver an AC current with modified sinus wave. Many electrical devices like e. g. notebooks, video players, radios, lamps, fans or battery chargers can be operated trouble-free. The inverters with higher wattage can even be used with dust cleaners or electrical cutting tools. However the devices input power in watt must not be higher than the continuous power rating of the inverter.

NOTE:

Never try to operate a fluorescent lamp (e.g. an UV lamp for wind-screen repair) or an energy-saving lamp with these inverters. Devices with build-in NiCd batteries and internal charger should also not be operated. Any damages caused by non-observance of the instruction manual are not covered by our warranty!

All devices with external battery charger or mains connector should run trouble-free.



PI-300



PI-400



- **DSP-120** **Diamond Sanding Pad, black grit 120**
- **DSP-200** **Diamond Sanding Pad, red grit 200**
- **DSP-400** **Diamond Sanding Pad, purple grit 400**
- **DSP-800** **Diamond Sanding Pad, white grit 800**
- **DSP-1000** **Diamond Sanding Pad, blue grit 1000**

These handy foam blocks are coated with a flexible diamond sanding surface on one side.

The sanding pads are perfect for grinding small damages and irregularities on glass edges (NOTE: Please only grind the glass edges and never the glass surface!). Moreover they will work on all hard material, but also on many soft surfaces. Even rubber and plastic parts can be burred clean and easy.





ProGlass Workshop Covers

While working on a customer's vehicle it is not only important to perform a proper repair, but also to avoid secondary damages. Therefore the vehicle should be protected anytime from any unnecessary risk best possible.

Our workshop covers protect the vehicle's interior and exterior in an optimum way. The new Wing Protector covers doors and wings – thus exactly the area in which a technician could get in touch with the varnish – to protect this area particularly well. The non-skid Car Covers also prevent from scratching the varnish or the dashboard. At the same time they offer a safe depot for tools and small parts. The Seat Covers protect the vehicle's interior from soil and damage, depending on the model only the two front seats or the whole front passenger area.

All our workshop covers are made from high-quality components and sewn in manual production in Germany. The outcome of this is durable and hard-wearing products – made for the professional use. In the production we set a high value on accurately positioned and neatly processed seams. In all strained areas, like e. g. the practical hangers, we even use double seams.

This is really visible quality - for products that last for a long time.

■ DSS-200

ProGlass Double Seat Cover

Big, one-piece seat cover for covering both front seats, the center console, the footwell and the threshold.

Advantages:

- no glass pieces or dirt on the seats and on scratch-sensitive surfaces
- less dirt means less time for cleaning = time saving
- professional appearance towards the customer

Properties:

- the fabric (Nylon 70D) is hard-wearing, persistent and water-repellent
- the reverse side is skidproof thanks to a soft PVC coating
- thanks to the triangular extension for the centre console suitable for most passenger cars
- all materials are colour-fast and light-resistant
- the cover is fully washable
- high-quality manufacturing - made in Germany
- available with individual logo in small quantities



■ ESS-075

ProGlass Single Seat Cover

Seat cover for covering one front seat.

New design (delivery from May 2014:

Now adapted to all different sized car seats - incl. sports seats.

Advantages:

- no glass pieces or dirt on the seats and on scratch-sensitive surfaces
- less dirt means less time for cleaning = time saving
- professional appearance towards the customer

Properties:

- with practical hanger loop for clean storage when not in use
- the fabric (Nylon 70D) is hard-wearing, persistent and water-repellent
- the reverse side is skidproof thanks to a soft PVC coating
- all materials are colour-fast and light-resistant
- the cover is fully washable
- high-quality manufacturing - made in Germany
- available with individual logo in small quantities



■ **KFS-150**

ProGlass Wing Protector 150 x 50 cm

A workshop cover for wings and doors with very flexible mounting options. This unique cover is suitable for all magnetic and non-magnetic car bodies.

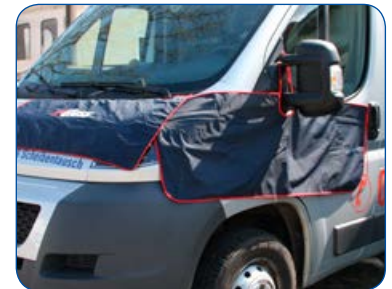
Thanks to the various mounting options this wing protector can be used on all different kind of cars! It can be fixed to the vehicle with the integrated magnetic tape, by hanging into the clearance between wing and hood or into the door window opening, with the cords at the upper corners to screws, holes or in door seals, with center cords and stopper at side mirrors.

Advantages:

- no risk of scratching the painting
- quick and easy handling thanks to the flexible mounting options
- professional appearance towards the customer

Properties:

- the fabric (Nylon 70D) is hard-wearing, persistent and water-repellent
- skidproof, cushioned reverse side (5 mm thick non-slip mat)
- magnetic tapes for safe mounting on steel bodies
- plug-in tongues for easy mounting to car body clearances
- cords for variable mounting to screws, holes or in door seals
- all materials are colour-fast and light-resistant
- the cover is washable by hand (please do not clean in a washing machine because of the magnetic tapes and the cords)
- high-quality manufacturing - made in Germany
- available with individual logo in small quantities





■ FZS-120

ProGlass Car Cover 120 x 50 cm

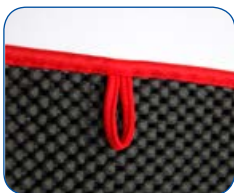
Protective mat with a skidproof, cushioned reverse side for covering and protecting hoods, fenders or dashboards.

Advantages:

- no risk of scratching the painting (fender covers with magnets can easily cause small scratches and dents)
- quick and easy handling (no more time-consuming masking of hood and fender edges with tape)
- safe and practical place to deposit hand tools on a vehicle
- professional appearance towards the customer

Properties:

- with practical hanger loop for clean storage when not in use
- the fabric (Nylon 70D) is hard-wearing, persistent and water-repellent
- skidproof, cushioned reverse side (5 mm thick non-slip mat)
- all materials are colour-fast and light-resistant
- the cover is fully washable
- high-quality manufacturing - made in Germany
- available with individual logo in small quantities



■ FZS-80

ProGlass Car Cover 80 x 45 cm

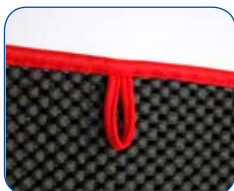
Protective mat with a skidproof, cushioned reverse side for covering and protecting hoods, fenders or dashboards.

Advantages:

- no risk of scratching the painting (fender covers with magnets can easily cause small scratches and dents)
- quick and easy handling (no more time-consuming masking of hood and fender edges with tape)
- safe and practical place to deposit hand tools on a vehicle
- professional appearance towards the customer

Properties:

- with practical hanger loop for clean storage when not in use
- the fabric (Nylon 70D) is hard-wearing, persistent and water-repellent
- skidproof, cushioned reverse side (5 mm thick non-slip mat)
- all materials are colour-fast and light-resistant
- the cover is fully washable
- high-quality manufacturing - made in Germany
- available with individual logo in small quantities



Customized Covers

Starting from a quantity of only 10 pieces (assorted) you can order our car and seat covers with your own logo.

Please contact us for further details and to obtain an individual quote for your needs!





- **CHM-108**
- **CHL-109**
- **CHX-110**

Cut-Resistant Protection Gloves, size M, per pair

Cut-Resistant Protection Gloves, size L, per pair

Cut-Resistant Protection Gloves, size XL, per pair

Pleasant to wear, made of finely knitted fabric with woven in glass fibre and grey PU coating at the inside. Outstanding cutting protection, breathable back side, perfect abrasion resistance, excellent sense of touch.

CE / EN 388 CAT II / 4 5 4 2 (cutting protection level 5!)



- **MHM-108**
- **MHL-109**
- **MHX-110**

Finely Knitted Gloves, non slip, size M, per pair

Finely Knitted Gloves, non slip, size L, per pair

Finely Knitted Gloves, non slip, size XL, per pair

Gloves pleasant to wear, made of finely knitted fabric - especially permeable to air and with optimum fit. Safe grip, due to the polyurethane coating at the inside. Excellent sense of touch combined with a good hand protection.

CE / EN 388 CAT II / 4 1 3 1



■ **LHM-108**

Winter Knitted Gloves, size M, per pair

■ **LHX-110**

Winter Knitted Gloves, size XL, per pair

The perfect winter gloves for the workshop and in the auto glass mobile service. Seamless knitted glove with foamed and waterproof crinkle latex coating. Soft and warm, especially used for outside work during the winter season. Thanks to the latex coating these gloves are really non-skid with a secure grip.

CE / EN 388 CAT II / 1 2 3 1 + EN 511 / X 1 X



■ **NHM-108**

Nitrile Gloves, size M, per pair

■ **NHL-109**

Nitrile Gloves, size L, per pair

■ **NHX-110**

Nitrile Gloves, size XL, per pair

Cotton tricot gloves with a nitrile coating. Partly coated back side, breathable, high flexible and with a secure grip. The tricot material keeps your hands warm and dry - even in damp weather.

CE / EN 388 CAT II / 3 1 1 1



■ **SHM-108**

Knitted Gloves, non-slip, size M, per pair

■ **SHL-109**

Knitted Gloves, non-slip, size L, per pair

■ **SHX-110**

Knitted Gloves, non-slip, size XL, per pair

High-quality cotton/nylon mix knitted gloves that are comfortable to wear and have an optimum fit. Safe grip, due to non slip dots at the palm. Good sense of touch combined with a high protection against cutting.

CE / EN 388 CAT II / 0 2 4 2



■ **LSH-517**

Protective Leather Gloves, per pair

High-quality gloves made of cattle split leather with reinforced sections of full leather for high demands at the inside. Excellent abrasion and puncture resistance. Outside and palm made of cotton fabric.

These gloves cannot be compared with cheap products made of inferior material which you can buy in the DIY store next door.

CE / EN 388 CAT II / 4 1 2 4



■ EHN-694

Nitrile Disposal Gloves, powder-free package at 100 pieces

Nitrile has similar carrying properties than Latex or Vinyl. But it is also resistant against chemicals. Everybody who is doing glass repairs or working with solvents should wear these gloves to protect the skin.

CE / EN 455



■ BNG-418

Nitrile Disposal Gloves, black, powder-free Size: L, package at 100 pieces

■ BNL-820

Nitrile Disposal Gloves, black, powder-free Size: XL, package at 100 pieces

These gloves have textured fingertips for better handling of small items, are high chemical and puncture resistant, and contain no MBT or Latex. They have an unsurpassed comfort and have no offensive odor.

CE / EN 455





■ SB-886

Safety Goggles

Unbreakable goggles made of transparent polycarbonate (PC). The ear pieces can be adapted individually due to the very pliable material. The goggles are shaped in a style that will fit over the most spectacle frames.



■ EHL-652

Latex Disposal Gloves, powder-free package at 100 pieces

Powder-free gloves are particularly suitable for touching the glass edges without leaving traces. No negative impact on adhesion.

CE / EN 455



■ EHL-140

Latex Disposal Gloves, powdered package at 100 pieces

Latex gloves protect your hands against polyurethane, primer and other persistent dirt. At the same time they protect your skin against aggressive cleaning agents

CE / EN 455



■ EHV-500

Vinyl Disposal Gloves, powdered, package at 100 pieces

Vinyl is stretchable and tearproof similar to latex. Therefore it is a perfect solution for persons with latex allergy.

CE / EN 455

■ CMU-099



All-Round Clips Storage Container with 99 compartments

Very spacious clips and small parts storage container with up to 99 compartments. Thanks to the variable dividers this container offers multiple fields of application. Made of shockproof plastic, with robust locks.

Dimensions: 420 x 300 x 410 mm



■ CKM-021



Clips and small parts storage box with 21 compartments

Small parts storage box made of milky-transparent, shockproof plastic, with robust locks. Thanks to the variable arrangement of the dividers you can create bigger or smaller compartments as needed.

Delivery without content.

Dimensions: 364 x 248 x 50 mm





■ CMM-018



Clip storage cabinet with 18 compartments

Small parts storage case for mobile use. Perfect to organize clips, rubber spacers, sensor adhesive pads and other small parts. The 18 boxes can be taken out separately if needed.

Dimensions: 300 x 300 x 150 mm



■ QT-5050



Divider for clip storage cabinet CMM-018

The divider separates each box of the clip storage cabinet in two compartments.



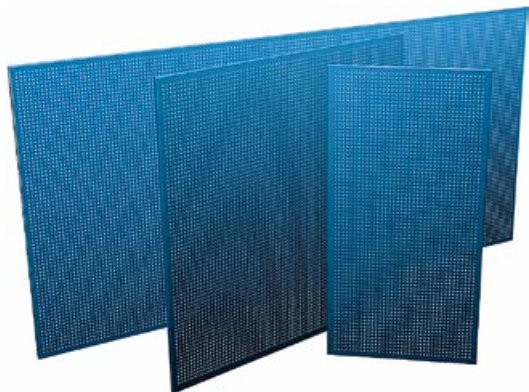
■ **IND-0609**

INDECO Perforated Tool Board
960 x 480 mm, blue

■ **IND-0612**

INDECO Perforated Tool Board
960 x 980 mm, blue

INDECO tool board made of 1.5 mm perforated steel sheet. The boards are powder-coated and therefore very sturdy and durable. Due to a fine matrix of holes (12 x 12 mm hole spacing, 4.2 mm hole diameter) the board can be arranged individually.



■ **IND-601796**

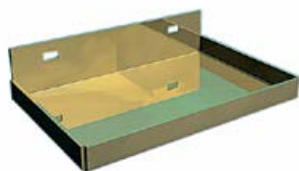
INDECO Screw, single

Each holder requires two screws. Do not forget to order, because commonly available screws are too long.

■ **IND-601099**

Shelf, 250 x 100 x 15 mm

Solid shelf for small parts and tins or bottles. Made of electroplated steel panel.



■ **WH-440**

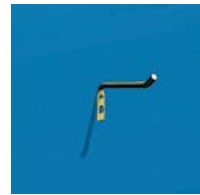
Tool Holder 440 mm
capable to hold 19 tools

A clear and neat way to store tools. Each tool is always ready to hand. The strip is made of aluminium with clamps of plastic. It has two holes for wall fastening or to fix it onto a perforated tool board (delivered without tools).





■ **IND-601703**
Holder, 45 mm long



■ **IND-601704**
Holder, 23 mm long

■ **IND-607703**
Holder, 45 mm long



■ **IND-601727**
Holder, 12 mm wide

■ **IND-601730**
Holder, 18 mm wide



■ **IND-601720**
Holder, 20 mm deep

■ **IND-601721**
Holder, 32 mm deep



■ **IND-601734**
Holder, for 1/2" box nut



■ **IND-601756**
Holder, Ø 21 mm,
height: 50 mm
one side closed



■ **IND-601723**
Holder, 20 mm round

■ **IND-601725**
Holder, 58 mm round



■ **IND-611071**
Tool Holder, 13-15 mm

■ **IND-611074**
Tool Holder, 25-27 mm

■ WSL-34



Tool Board with 34 tools

Kit contains:

- 1 ZMX-400 pull knife with quick change system
- 1 UW-119 UltraWiz pull knife blade 19 mm, package at 5 pieces
- 1 UW-125 UltraWiz pull knife blade 25 mm, package at 5 pieces
- 1 UW-138 UltraWiz pull knife blade 38 mm, package at 5 pieces
- 1 GS-380 glass scraper
- 1 RK-100A scraper blades, package of 100 pieces
- 1 LH-230 trim Jack
- 1 CEG-148 clip remover, wide
- 1 GHS-140 pointed hook, with short shaft
- 1 GHK-140 ball-tipped hook, with short shaft
- 1 FSC-300 ProGlass scraper, with quick change system
- 1 LT-750 locking strip tool with 2 double end tips
- 1 SLN-102 rope insert tool for passenger cars, rope 6 m long
- 1 DGH-300 wire guide
- 1 MH-120 telescopic magnet
- 1 MHS-068 hook and pick set, in 4 parts
- 1 MS-180 installation stick, round/flat
- 1 DST-733 T-handle wire threader, large
- 1 SPZ-160 pointed pliers with wire cutter
- 1 SB-886 safety goggles
- 1 SD-22 ProGlass sawing wire, braided, spool at 22 m
- 1 VKD-22 ProGlass cutting wire, squared, spool at 22 m
- 1 UMS-437 utility knife AMERICAN-LINE
- 1 TKS-100 trapezoid blades, dispenser at 100 pieces
- 1 HK-5 hook blades, package of 5 pieces
- 1 ZAW-090 wiper arm puller, universal
- 1 LM-460 ProGlass long knife 460 mm
- 2 PSH-120-1 ProGlass 2-cup suction lifter, single
- 2 FIX-080 moulding clamp, single
- 1 STG-3850 woven adhesive tape, black, 38 mm wide
- 1 DGL-200 wire handles, self-locking, set of 2 pieces
- 1 SHL-109 knitted gloves, size L
- 2 WH-400 tool Holder 440mm
- 1 IND-610 tool board INDECO 960 x 480 mm, blue, equipped with holders

■ WSK-31

Tool Case with 31 tools

High-quality and robust tool case made of plastic. Equipped with all tools needed to exchange a bonded windscreen. With this case you are ready to go! The two perfectly cut foam linings are good to keep track of your tools. Every single piece has a tidy place. So you have your tools always at your fingertips and nothing disappears.

Kit contains:

- 1 SD-22 ProGlass sawing wire, braided, spool at 22 m
- 1 VKD-22 ProGlass cutting wire, squared, spool at 22 m
- 1 DGL-200 wire handles, self-locking (pair)
- 1 DHL-300 wire guide, long version
- 1 DST-733 T-handle wire threader, large
- 1 SPZ-160 pointed pliers with wire cutter
- 1 ZMX-400 quick release pull knife
- 1 UWE-3 UltraWiz stainless steel blade assortment
- 1 GS-380 glass scraper
- 1 RK-100A scraper blades 40 mm wide (package at 100 pieces)
- 1 FSC-150 ProGlass scraper, with quick change system
- 1 SC-313 scraper blades 12 mm, package at 10 pieces
- 1 SC-316 scraper blades 16 mm, package at 10 pieces
- 1 SC-320 scraper blades 20 mm, package at 10 pieces
- 1 XL-2 Olfa long knife
- 1 LB-10 Olfa snap-off blades, package at 10 pieces
- 1 MS-180 installation stick round/flat
- 1 LH-230 trim jack
- 1 CEG-148 clip remover, wide
- 1 GHS-280 pointed hook, with long shaft
- 1 GHS-140 pointed hook, with short shaft
- 2 PSH-120-1 ProGlass 2-cup suction lifter, single
- 2 FIX-080 moulding clamp, single
- 1 SHX-110 knitted gloves, size XL
- 1 SB-886 safety goggles
- 1 STS-039 socket set 1/4" drive in 39 parts
- 1 ZAW-090 wiper arm puller, universal
- 1 KSZ-163 V-notch pliers
- 1 KA-539 cartridge opener



■ WSA-600

Auto Glass Tool Cart, fully equipped



High-grade tool cart made of aluminium, plastics and coated steel plate. 4 guide rollers, thereof 2 with brake. 360° swivelmounted glass rack with 4 rubber cups for preparing glasses (item WSH-7050). The three top drawers are fully equipped with all hand tools needed to replace bonded and non-bonded glasses. And to keep everything in a nice order each tool has its own space in a rigid-foam lining. The three lower drawers without lining offer enough space for power tools or other big tools. In one of the high drawers for example we have put in the pair of suction lifters. To protect your tools all drawers can be locked with a central lock.

A paper roll holder (item PRH-380), a rod to hang the spray bottles, a 10 litre waste bin (item WAB-909) and two boxes for small parts such as clips and/or cans (items WKB-300 and WKB-400) are furthermore included.



item no.	description	item no.	description	item no.	description	item no.	description
GHS-280	pointed hook, long	STS-039	socket set	ZMX-400	pull knife	GS-380	glass scraper
GHS-140	pointed hook, short	MHS-068	hook and pick set	UWE-3	stainless steel blades	RK-100A	scraper blades
CEG-148	clip remover	SB-886	safety goggles	SLP-101	rope insert tool	MS-180	installation stick
LH-230	trim jack	DGL-200	wire handles	LT-415	locking strip tool	MS-181	installation stick
DWR-120	wiper arm puller	DST-733	T-handle wire threader	KSZ-163	V-notch pliers	OL-30	universal knife
ZAW-090	wiper arm puller	SD-22	sawing wire, 22 m	FSC-150	pinchweld scraper	XL-2	long knife
PF-216	penlight	VKD-22	cutting wire, 22 m	SC-313	scraper blades 12mm	LB-10	snap-off blades
MH-120	telescopic magnet	SPZ-160	pointed pliers	SC-316	scraper blades 16mm	KA-539	cartridge opener
RMP-416	installation pliers for rearview mirrors	DHL-300	wire guide	SC-320	scraper blades 20mm	PSL-150-1	suction lifter (2x)



■ **WSA-600-0**

Tool Cart, empty

Dimensions ca. (LxWxH): 800 x 450 x 985 mm

High-grade tool cart made of aluminium, plastics and coated steel plate. Four drawers with a height of ca. 55 mm and two big drawers with a height of ca. 125 mm. All drawers are 100% useable and can be locked with a central lock to protect your tools.

On the left side it has a rack to hang spray bottles, on the right side it has a grill to hook in boxes for small parts or other things.



■ **WSH-7050**

Glass Rack

The glass rack transforms the tool cart WSA-600-0 into an auto glass work centre. The rack can be swivelled by 360°. If required you can take it off the screw-mounted base very easily.

Dimensions incl. base
and rubber plates (LxWxH): 98,5 x 60,0 x 16,0 cm
carrying capacity (if mounted on WSA-600-0): 60 kg



■ **PRH-380**

**Paper Roll Holder
for tool cart WSA-600-0**

Made of black powder coated metal tube. Max. roll diameter 34 cm, max. roll width 41 cm. Delivered incl. mounting parts.



■ **WAB-909**

**Waste Bin
for tool cart WSA-600-0**

Plastic waste bin to hang-on, capacity 10 l.



■ **WKB-300**

Accessory Box for tool cart WSA-600-0
305 x 80 x 82 mm

■ **WKB-400**

Accessory Box for tool cart WSA-600-0
402 x 100 x 100 mm



■ **WZK-5127**

Tool Box with shelf
dimensions: 530 x 290 x 270 mm

Robust plastic case for the storage of tools. Includes one movable shelf for small items.

The case can even be used as a seat or pedestal.
Maximum load is 120 kg.





■ **WZK-5132**

Tool Box with shelf and compartments in the lid
dimensions: 525 x 295 x 322 mm

Robust plastic case for the storage of tools. Includes one movable shelf for small items. There are four compartments in the lid with movable dividers.

Because of the compartments in the lid this case can not be used as a seat or pedestal.



■ **WZK-5942-R**

Tool Box on Wheels
dimensions: 610 x 375 x 415 mm

Robust and very spacious plastic box on wheels with an extendable handle. With two movable shelves and the detachable lid with further compartments for small items this case is the perfect companion in the mobile service.

The case can be used as a seat or pedestal.
 Maximum load is 120 kg.





■ RW-201



Rolling Workshop STANLEY II

The rolling workshop Stanley II is the well-priced alternative made of plastic to the model „Professional“ (item no. RW-205).

The tool trolley can be demounted with snap closures in two parts for transportation.

Features:

- Removable tool tray in the top. Thereunder is a big compartment that offers enough room for a pair of suction cups.
- Drawer for tools or small parts.
- Higher drawer for tool storage.
- Big bottom compartment for power tools or other big tools.
- Extractable handgrip for convenient and easy transportation.

Delivery without Tools.

Dimensions: 448 x 348 x 778 mm





■ RW-205

Rolling Workshop STANLEY “Professional”

The rolling workshop offers enough space for all tools and supplies that the auto glass professional needs. Thanks to the compact dimensions this tool trolley is an excellent companion for the mobile service. With a single movement the tool trolley can be demounted in two parts for transportation.

Features:

- removable tool tray in the top
- thereunder is a big compartment that offers enough room for a pair of suction cups
- drawer for tools
- big bottom compartment for power tools or other big tools
- extractable handgrip for convenient and easy transportation
- retainer for extension cords or air hoses

Delivery without Tools.

Dimensions: 568 x 389 x 730 mm





■ RW-217



Rolling Workshop STANLEY FatMax

Features:

- Rolling workshop made of metal and plastic with two drawers, a large storage bin and a detachable, 30 cm high toll box
- 20" Detachable metal plastic tool box with removable tray
- Large metal rust proof latches with padlock eye
- Two deep 4" drawer with ball bearing slides
- One drawer with removable boxes for small parts
- Large metal storage bin that provides extra large capacity of portable tool storage
- Heavy duty 7" wheel

Delivery without Tools.

Dimensions: 568 x 389 x 893 mm





■ RW-239



Rolling Workshop STANLEY FatMax

Features:

- Rolling workshop made of plastic for the transport of large amounts of equipment and materials - saves time and effort on repeated trips to the van!
- Robust telescopic handle
- Opens up easily into a 4 level workstation
- Giant lower bin ideal for bulky equipment and tools
- Tool box with lift-out tray for smaller tools, which fits neatly into the fold-out lid

Delivery without Tools.

Dimensions: 549 x 413 x 733 mm







■ **DWS-840**

ProGlass Windscreen Trestle Deluxe

- robust construction - load capacity 90 kg
- made of Ø 25 mm steel tube, blue powder coated
- four high-quality rubber pads (Ø 125 mm) carry the glass
- each glass support is adjustable by angle and position, thus perfect support for every glass
- width multi adjustable to carry all sizes of glass
- delivered demounted, with illustrated manual (assembly in about 5 minutes)



■ **SWS-580**

Windscreen Trestle Standard

■ **SWS-580-01**

Rubber Plates for SWS-580, single

- classical design, made of lacquered steel tube Ø 25 mm
- four big rubber plates to hold the glasses firmly
- width multi adjustable to carry almost all sizes of glasses
- delivered partly mounted
- load capacity: 60 kg



SWS-580-01



■ EWS-620

ProGlass Windscreen Trestle Economy

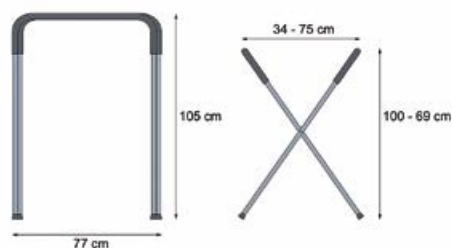
- well-priced and nevertheless sturdy windscreen trestle
- made of shock-resistant lacquered steel tube
- soft coating is made of non-skid material and particularly resistant
- width multi adjustable to carry almost all sizes of glasses
- delivered completely mounted
- load capacity: 80 kg



■ HWS-760

ProGlass Windscreen Trestle Heavy Duty

- very sturdy version - load capacity up to 100 kg
- made of shock-resistant lacquered steel tube Ø 30 mm
- soft coating is made of non-skid material and particularly resistant
- width multi adjustable to carry almost all sizes of glasses
- delivered demounted, with illustrated manual (assembly in about 5 minutes)





Data SRD-030:

- height: 240 cm
- width: 83 cm
- depth: 120 cm
- net weight: 85 kg
- max. load: 600 kg

■ **SRD-030**

**Glass Rack double-sided
with 30 support (carrying capacity max. 600 kg)**

■ **SRE-015**

**Glass Rack single-sided,
with 15 supports (carrying capacity max. 300 kg)**

ATTENTION:

Despatch only by forwarding agency! For this item additional shipping cost always applies. We will confirm the actual shipping cost with our order confirmation. These items are only available in Germany and the other EC countries!

Features:

- very solid rack for storage of all types of car glasses
- all pipes are coated with a strong PVC hose
- the inclination angle of the pipes is approx. 70°
- shock absorbing rubbers at the end of each tray
- each tray can easily carry 5 glasses of the same type (distance between pipes: 11 cm)
- deliver partly mounted
- prepared for wall- and floor-mounting



Data SRE-015:

- height: 240 cm
- width: 83 cm
- depth: 60 cm
- net weight: 55 kg
- max. load: 300 kg



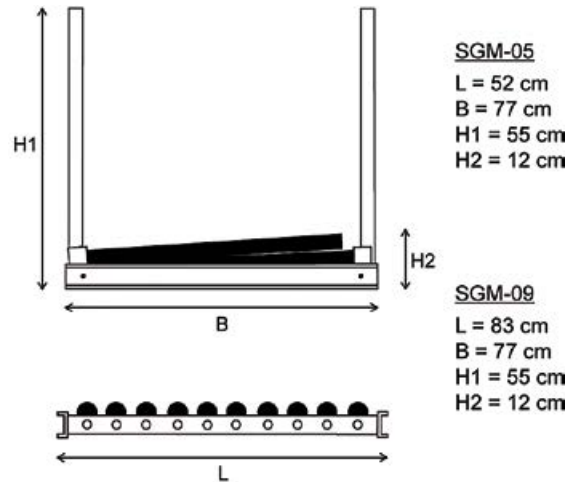
■ **SGM-05**

ProGlass Glass Rack with 5 compartments, collapsible

■ **SGM-09**

ProGlass Glass Rack with 9 compartments, collapsible

- rack completely made of high-grade aluminium - this means no peeling off paint, no rust
- non-skid rubber cams and supports hold all sizes of glasses firmly
- tubes are all padded with resistant material
- rack delivered completely mounted, ready to bolt to the vehicle's bottom (fixing material included)
- in case of disuse, collapsible in a few seconds by pulling out the locking pins





■ **PSL-150-1**

ProGlass 2-Cup Suction Lifter „Pro Deluxe“

Easier and safer to attach than common suction lifters with clamp lever technology - the bell-shaped rubber pads already adhere onto the glass surface with slight pressing - even before pressing down the lever!

- 2 bell-shaped suction cups with large seal avoid slipping or coming off
- pin-jointed heads for an optimum hold on all curved glasses
- slotted handle to pass a belt through
- load capacity for each lifter is 60 kg
- frame made of light-weight and shock-resistant plastic
- diameter of suction cup 150 mm



■ **PSH-120-1**

ProGlass 2-Cup Suction Lifter „Pro“

- pin-jointed heads for optimum hold on curved glasses
- slotted handle to pass a belt through
- load capacity for each lifter is 60 kg
- frame made of light-weight and shock-resistant plastic
- diameter of suction cup 115 mm





■ **PHX-150-1**

ProGlass Single Suction Lifter „Pro Deluxe“

- single-cup suction lifter for one-hand operation with big suction cup 150 mm
- load capacity 30 kg
- for easier and safer handling
- frame made of light-weight and shock-resistant plastic



■ **PHL-115-1**

ProGlass Single Suction Lifter „Pro“

- handy single-cup suction lifter for one-hand operation
- diameter of suction cup 115 mm
- load capacity 30 kg
- frame made of light-weight and shock-resistant plastic



■ **SHV-125-1**

2-Cup Suction Lifter, single with 1-hand-operation

- Particularly flexible bell-shaped rubber pads fit onto all glasses
- fast 1-hand-operation for serial assembling or transportation
- diameter of rubber pad is 125 mm
- load capacity for suction lifter is 40 kg



1 bring suction lifter close



2 place it on the glass



3 press it down



4 done!



5 pull lever to release

■ **SHP-150**

ProGlass Vacuum Lifter Kit

Kit contains:

- 2 single vacuum lifters SHP-150-1
- 1 elbow pad
- 1 plastic case 365 x 200 x 180 mm



■ **SHP-150-1**

ProGlass Vacuum Lifter, single

Easier and safer to attach than common suction lifters with clamp lever technology - the bell-shaped rubber pads already adhere onto the glass surface by slightly pressing them down!

- bell-shaped rubber pad (Ø 150 mm) for optimal hold, also on strongly curved glass surfaces
- fixed with the integrated vacuum pump
- safety ring at the pump plunger for optical monitoring of the vacuum
- load capacity for each single lifter is 60 kg



■ SHP-200-1

Vacuum Lifter for heavy glasses single, in plastic case



- bell-shaped rubber pad (Ø 230 mm) with multiple-seal lip
- for optimum hold, also on strongly curved glass surfaces
- fixed with the integrated vacuum pump
- red safety ring at the pump plunger enables optical monitoring of the vacuum
- load capacity for each lifter is 120 kg



■ SHP-230-1

Vacuum Lifter for heavy glasses single, in plastic case

- bell-shaped rubber pad (Ø 230 mm) with multiple-seal lip
- for optimum hold, also on strongly curved glass surfaces
- fixed with the integrated vacuum pump
- red safety ring at the pump plunger enables optical monitoring of the vacuum
- load capacity for each lifter is 120 kg





■ SHG-200

Single Suction Cup with spherical rubber pad

- spherical rubber pad also fits extremely curved glasses
- fast application without lever or pump
- suction cup diameter: 165 mm
- material: rubber
- load capacity per piece: 20 kg



■ RTD-509

Pair of Ratcheting Tie Downs

- to secure freshly bonded-in glasses
- with German TÜV/GS symbol that stands for proved safety
- solid ratcheting mechanism
- length of each belt: 5 m



■ GT-3516

Window Carrier

The window carrier allows you to easily carry large windows without the use of suction lifters and with only one person. Made of fiber-reinforced plastic.







■ **SL-350-B**

Windscreen Lift up to 3.50 m height for busses, trucks and trains

The ProGlass Windscreen Lift facilitates the fitting of big and heavy windows on busses, trucks or trains.

The model SL-350-B has a suction unit with three suction cups with an overall load capacity of 210 kg. The lift has a total height (extended) of approx. 3.50 m. This is even high enough to exchange the top windscreen on big coaches.

The whole construction can be easily folded down for transportation in a service truck. Thanks to the integrated transportation casters this can be done by a single person (total weight 160 kg).

All functions are mechanical (no external power source necessary) - only lifting and lowering of the window can be supported sensible by using a cordless screwdriver (not included!).



By using the Windscreen Lift the manpower requirements for the glazing of big vehicles can be reduced by minimum one person. Therefore it will pay for itself within short time.



■ **SL-300-S**

Windscreen Lift up to 3.00 m height for busses, trucks and trains

The model SL-300-S has a suction unit with two suction cups (load capacity 140 kg, height approx. 3.00 m, total weight 120 kg) and can be disassembled for transportation without much effort. With this device you can exchange the windscreen on trucks and the most busses with ease.

■ PFN-300

Mobile Scaffold for bus and truck work

Finally a safe working space for the glazing of busses and trucks!

The construction platform with its 4 big swivelling castors (Ø 150 mm, gummed, with brake) can be positioned easy and in a safe manner. In addition, all castors are vertically adjustable to adapt the scaffold on uneven ground.

Two fitters can comfortably move the windscreen to the vehicle: They both have enough space to stand on the platform as it is 3.0 m wide. The steps are fixed on the levels of 50, 75 and 100 cm, they could however be floored higher if needed. In this case an additional safety rail would be necessary.

Assembly and disassembly of the scaffold is quick and easy to handle without the use of tools. The maximum weight of a single part is of only 24 kg, so that it can be done completely by one person.

total weight: 121 kg

loading length (max.): 3.07 m

loading height (max.): 1.54 m

- the ideal scaffold for the glazing of busses and trucks
- working height ca. 3 m (expandable if required)
- TÜV approved, load capacity 200 kg/m² (scaffold class 3) in accordance with EN1004
- the platform size with 2.90 m x 0.60 m offers a safe working space
- all parts are easy to handle (max. weight 24 kg)
- quick assembly without the use of tools thanks to the patented locking system



■ SOK-3030

**Aegis SOLO II Deluxe Kit
installation device**

The installation device AEGIS® Solo™ II allows the installation of wind-screens “solo”, meaning by a single technician. By that large wind-screens, including the biggest vans, can be installed by only one person - a job that mostly needed two technicians so far.

The AEGIS® Solo™ II features a reversible arm that works from both sides of the vehicle. This arm can also be adjusted to 2 different lengths to fit for all sizes of vehicles.

Works with any windscreen curvature. The AEGIS® Solo™ II is based off of the popular AEGIS® Solo™; design.

The Deluxe Kit additionally includes two glass handlers SHP-150-1. Due to their comfortably big handle design these vacuum pump suction lifters facilitate the handling and pivoting of the glass.

*quicklink to the
product video*



■ SOK-3020

**Aegis SOLO II Standard Kit
installation device**

The Standard Kit comes without the additional glass handlers SHP-150-1. Besides that it includes all the same parts from the Deluxe Kit. To work with the SOLO II Standard Kit will require the use of a pair of suitable suction lifters (you may already own).





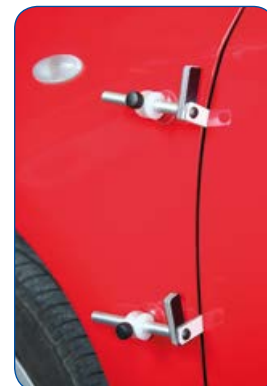
■ ML-101

Assembly Jig 10 x 1.0 mm package at 2 pieces

For a professional windscreen installation in accordance with the manufacturer's instructions you must observe the correct clearance between the glass and the car body. As bonded glasses must not be moved once they have been set, it is beneficial to ensure the correct clearance during the installation process.

With its 1.0 mm thick plastic discs the assembly jig permits an auto glass installation accurate to the last millimetre. Simply position as many discs as needed between glass and pinchweld. The assembly jig can be fixed either on the glass or on the car body.

At the same time the assembly jig can be used as a clearance gauge for all car body jobs (e. g. when mounting fenders or aligning doors and hoods).



■ PFK-050

Work Platform StepTop, max. load 150 kg

- foldable work platform with water-proof and non-slip phenolicresin panel (109 x 30 cm)
- ideal for working on vans and small trucks (height of platform: 50 cm)
- safety locks on both sides prevent unintentional folding
- multiple riveted robust aluminum step/rail joints with 4 additional stable corner braces
- quick and space-saving storage (13.5 cm thick)
- non-slip, large dimensioned foot caps ensure safe foothold



■ RT-560

Wheel Step Ladder load capacity: 225 kg

- facilitates working on high vehicles
- simply put it over the front wheel, if necessary swivel in from the front
- applicable for almost all saloon cars, vans, SUVs and allterrain vehicles with a wheel diameter of at least 600 mm



Note: Due to the size of the wheel arch and the construction of the suspension strut not suitable for all vehicles



■ **SK-1060K**

ProGlass SK-1060K 1-Component PUR Auto Glass Adhesive cartridge at 310 ml

ProGlass SK-1060K is a single-component auto glass adhesive with a short drive-away time which can be used during the whole year.

The adhesive is high-modulous, easy to applicate, it can be used for practically all vehicles and offers a safe drive-away time of only 1 hour with passenger airbag (tested by TÜV).

With these features ProGlass SK-1060K is a true all-in-one product for automotive replacement glazing.

For further information please refer to the technical data sheet.

packaging unit:
carton at 12 pieces incl. plastic nozzle



■ **SK-1060B**

ProGlass SK-1060B 1-Component PUR Auto Glass Adhesive sachet at 400 ml

ProGlass SK-1060B is a single-component auto glass adhesive with a short drive-away time which can be used during the whole year.

The adhesive is high-modulous, easy to applicate, it can be used for practically all vehicles and offers a safe drive-away time of only 1 hour with passenger airbag (tested by TÜV).

With these features ProGlass SK-1060B is a true all-in-one product for automotive replacement glazing.

For further information please refer to the technical data sheet.

packaging unit:
carton at 12 pieces incl. plastic nozzle and adaptor



■ SP-1010

Adhesive Agent / All-in-One Primer
bottle at 125 ml **(new volume)**

■ SP-1001

Adhesive Agent / All-in-One Primer
bottle at 15 ml

This all-in-one primer (black primer) is the perfect UV protection for our ProGlass PUR adhesive. But as a real universal talent the primer can also be applied on all other surfaces incl. the remaining PUR bead on the pinchweld and coatings on the new glass. No separate activator or transparent primer is necessary.

Additionally this all-in-one primer is an effective anticorrosive so that eventually occurring damages on the pinchweld can be simply covered with this primer (apply 2 layers).

NEW: 14 days storage life after the first opening of the bottle!

For further information please refer to the technical data sheet.



■ VRS-1000

ProGlass Pre-Cleaner
can at 1,000 ml

The pre-cleaner is meant for cleaning and degreasing of a new glass before applying the primer for the adhesive. The highly effective formulation does not only take off any adhesive tape residues and greasy contaminations but also **reliably removes silicone residues and flexibilizers** from foams and plastic foils that are commonly used to protect automotive glasses during transportation.

■ **SKS-1060K**

ProGlass Bonding Kit Cartridge

Kit contains:

- 1 cartridge SK-1060K auto glass adhesive (310 ml)
- 1 bottle SP-1001 All-In-One primer (15 ml)
- 2 applicators (same as AP-100)
- 1 plastic nozzle
- 1 product information / application note



■ **SKS-1060B**

ProGlass Bonding Kit Sachet

Kit contains:

- 1 sachet SK-1060B auto glass adhesive (400 ml)
- 1 bottle SP-1001 All-In-One primer (15 ml)
- 2 applicators (same as AP-100)
- 1 plastic nozzle and adaptor
- 1 product information / application note





■ **KSP-1580-12** Plastic nozzles M15 x 1.5, package of 12

■ **KSP-1580-100** Plastic nozzles M15 x 1.5, package of 100

Cartridge nozzles made of PE with embossed cutting marks, for 'cut to fit' use. For the application of auto glass adhesives in aluminium cartridges with standard thread M15 x 1.5. With separately available adaptor (item no. KBA-4915) also suitable for sachets.



■ **KSP-1580S-12** Plastic nozzles M15 x 1.5 (pre-cut), package of 12

■ **KSP-1580S-100** Plastic nozzles M15 x 1.5 (pre-cut), package of 100

Cartridge nozzles made of PE with pre-cut V-notch and guiding pin. For the application of auto glass adhesives in aluminium cartridges with standard thread M15 x 1.5. With separately available adaptor (item no. KBA-4915) also suitable for sachets.



■ **KBA-4915-12** Adaptor for plastic nozzles M15 x 1.5, package of 12

■ **KBA-4915-50** Adaptor for plastic nozzles M15 x 1.5, package of 50

Plastic adaptor made of PE for using auto glass adhesive in sachets with standard plastic nozzles with inside thread M15 x 1.5 mm.



■ **AP-100**

**Applicators, lint-free, 105 mm long,
100 pieces per carton**

■ **AP-100-B**

**Applicators, lint-free, 105 mm long,
100 pieces per plastic bag**

■ **AP-25**

**Applicators, lint-free, 105 mm long,
25 pieces per plastic bag**

■ **AP-2500**

**Applicators, lint-free, 105 mm long,
2.500 pieces in a corrugated cardboard box (not shown)**

Applicators for clean and exact application of black and transparent primers, cleaning agents, etc.

The applicator tufts are made of pure cotton, virtually lint-free, solid and tightly equipped, for an evenly covering application.



■ **APL-100**

**Applicators, lint-free, 130 mm long,
100 pieces per carton**

■ **APL-100-B**

**Applicators, lint-free, 130 mm long,
100 pieces per plastic bag**

■ **APL-25**

**Applicators, lint-free, 130 mm long,
25 pieces per plastic bag**

■ **APL-2500**

**Applicators, lint-free, 130 mm long,
2.500 pieces in a corrugated cardboard box (not shown)**

The 130 mm applicators keep your fingers clean.

With the longer wire they also reach the bottom of most 250 ml bottles. All other features of the APL applicators are the same than of our AP applicators.



■ **DM-1094**

**Applicators small, lint-free, 150 mm long,
100 pieces per plastic bag**



Small head applicators with a wooden stick.



■ **PCG-180-KF****Milwaukee Cordless Caulking Gun 18 V
for 310 ml cartridges and sachets up to 400 ml**

- ProGlass exclusive remodeling with 400 ml aluminium barrel
- incredibly high squeezing pressure of 4300 N for a simple processing of highly viscous material
- up-to-date lithium-ion battery technology for maximum performance at a minimum weight (power tool including battery 2.7 kg)
- highest application accuracy of all battery guns on the market
- variable speed trigger for optimal control
- Vmax restriction on 6-speed wheel (feed rate 0 - 9 mm/s)
- remaining content easily visible by the position of the rack
- no dripping of sealant thanks to electronic rack release function after disengaging the trigger
- rack disengages automatically for fast reloading
- ergonomically shaped, non-skid 2-component handle
- delivered with one 18 V Li-Ion battery pack (1.5 Ah)
- Milwaukee 30-min. quick charger included

■ **PCG-180****Milwaukee Cordless Caulking Gun 18 V
for 310 ml cartridges**

- one-side open plastic barrel for quick and easy reloading of cartridges
- incredibly high squeezing pressure of 4300 N for a simple processing of highly viscous material
- up-to-date lithium-ion battery technology for maximum performance at a minimum weight (power tool including battery 2.6 kg)
- highest application accuracy of all battery guns on the market
- variable speed trigger for optimal control
- Vmax restriction on 6-speed wheel (feed rate 0 - 9 mm/s)
- remaining content easily visible by the position of the rack
- no dripping of sealant thanks to electronic rack release function after disengaging the trigger
- rack disengages automatically for fast reloading
- ergonomically shaped, non-skid 2-component handle
- delivered with one 18 V Li-Ion battery pack (1.5 Ah)
- Milwaukee 30-min. quick charger included



■ **PCG-180-F**

Milwaukee Cordless Caulking Gun 18 V for 600 ml sachets



- long 600 ml aluminium barrel for big sachets
- incredibly high squeezing pressure of 4300 N for a simple processing of highly viscous material
- up-to-date lithium-ion battery technology for maximum performance at a minimum weight (power tool including battery 2.9 kg)
- highest application accuracy of all battery guns on the market
- variable speed trigger for optimal control
- Vmax restriction on 6-speed wheel (feed rate 0 - 9 mm/s)
- remaining content easily visible by the position of the rack
- no dripping of sealant thanks to electronic rack release function after disengaging the trigger
- rack disengages automatically for fast reloading
- ergonomically shaped, non-skid 2-component handle
- delivered with one 18 V Li-Ion battery pack (1.5 Ah)
- Milwaukee 30-min. quick charger included

■ **PCG-180-URS Conversion Kit for Milwaukee 600 ml (PCG-180-F)**



With this conversion kit you can convert your Milwaukee caulking gun PCG-180 or PCG-180-KF without effort into a caulking gun with 600 ml aluminium barrel. The converted caulking gun is equal to our item number PCG-600-F. The kit includes all necessary parts and the tool can be rebuild at any time.

■ **KPA-418**



**Metabo Cordless Caulking Gun 10.8 V
for 310 ml cartridges and sachets up to 400 ml**

- high discharge force of 4413 N (450 kg) for easy processing of all materials - even particularly viscous ones
- infinitely variable setting of the discharge speed for precision working
- remaining content easily visible by the position of the rack
- no dripping thanks to automatic retraction of the gear rack
- rack disengages automatically for fast reloading
- all-metal gear for long service life
- weight (power tool including battery): 2.5 kg
- Ultra-M technology for highest performance, gentle charging, optimum energy utilisation and long service life
- delivered with one 10.8 V Li-Ion battery pack (4.0 Ah)
- 3-year battery pack warranty by means of Ultra-M technology
- Metabo quick charger LC40 included

■ **KPA-618**



**Metabo Cordless Caulking Gun 10.8 V
for sachets up to 600 ml**

- high discharge force of 4413 N (450 kg) for easy processing of all materials - even particularly viscous ones
- infinitely variable setting of the discharge speed for precision working
- remaining content easily visible by the position of the rack
- no dripping thanks to automatic retraction of the gear rack
- rack disengages automatically for fast reloading
- all-metal gear for long service life
- weight (power tool including battery): 2.7 kg
- Ultra-M technology for highest performance, gentle charging, optimum energy utilisation and long service life
- delivered with one 10.8 V Li-Ion battery pack (4.0 Ah)
- 3-year battery pack warranty by means of Ultra-M technology
- Metabo quick charger LC40 included

■ **AKP-410**



**Cox Cordless Caulking Gun 10.8 V
for cartridges and sachets up to 400 ml**

- short 400 ml aluminium barrel for cartridge and sachet use
- powerful caulking gun with an ejection pressure of 2000 N
- speed regulator for controlled application
- weight (power tool including battery): 1.65 kg
- delivered with one 10.8 V, 1.3 Ah Li-Ion battery pack
- Cox 60-min. quick charger included

■ **AKP-610**



**COX Cordless Caulking Gun 14.4 V
for 600 ml sachets**

- long 600 ml aluminium barrel for cartridge and sachet use
- powerful caulking gun with an ejection pressure of 2000 N
- speed regulator for controlled application
- weight (power tool including battery): 1.8 kg
- delivered with one 10.8 V, 1.3 Ah Li-Ion battery pack
- Cox 60-min. quick charger included



■ **AKP-036**



Panasonic Cordless Caulking Gun 3.6 V for cartridges and sachets up to 400 ml

- short 400 ml aluminium barrel for cartridge and sachet use
- powerful and robust cordless caulking gun with an ejection pressure of 2500 N
- weight (power tool including battery): 2.16 kg
- speed regulator build into handle for controlled application
- delivered with one 1,5 Ah (Li-Ionen) battery pack
- Panasonic 30-min. quick charger included



■ **BP-036**



Li-Ion Battery Pack 3.6 V, 1.3 Ah for AKP-036



■ **QC-025**

15-min.-Quick Charger for AKP-036

for Ni-MH and Li-Ion battery packs - not suitable for Ni-Cd battery packs!



■ **BP-180**

**Milwaukee Li-Ion Battery 18 V (1.5 Ah)
for PCG-180 /-F /-KF**



■ **PBA-1827**

**Milwaukee Quick Charger (30 min.)
for PCG-180 /-F /-KF**



■ **BP-418**

**Metabo Li-Power Battery 10.8 V, 4.0 Ah
for KPA-418 / KPA-618**



■ **LC-40**

**Metabo Battery Charger 10.8 V,
for KPA-418 / KPA-618**





■ **BP-410**



Li-Ion Battery Pack 10.8 V, 1.3 Ah,
for AKP-410 / AKP-610



■ **AKP-410-LG**



Cox Quick Charger 10.8 V
for AKP-410

Alternative rechargeable batteries and chargers for Panasonic caulking guns

All batteries and chargers have been tested comprehensively and are in industrial use for years. Especially the 2.4 Volt batteries offer significantly higher capacities (Ah) compared to the original Ni-Cd batteries. Thus the battery has more power available which stands for a longer operating time with one battery load. The chargers also offer advantages over the originals. Thanks to the electronic charge control the batteries are charged more optimal. The result is a longer operating time per battery load and the whole product life can be extended.

Panasonic has stopped the production and the delivery of Ni-Cd batteries in spring 2012. With these batteries you can continue to use your power tool without the need to buy a new charger.



■ **BP-2414**

Ni-Cd Battery 2.4 V - 1.4 Ah

■ **BP-2420**

Ni-Cd Battery 2.4 V - 2.0 Ah

■ **BP-2424**

Ni-Cd Battery 2.4 V - 2.4 Ah

■ **BP-2430MH**

Ni-MH Battery 2.4 V - 3.0 Ah

All battery packs suitable for caulking gun AKP-025-E.

NOTE: For the Ni-MH battery pack BP-2430MH the quick charger BC-2448 must be used.



■ **BC-2448**

Quick Charger 2.4 - 4.8 V

Charging system for Ni-Cd and Ni-MH batteries from Panasonic and alternative battery packs. This charger can be used as a replacement of the original charger QC-025.



■ **BP-7220**

Ni-Cd Battery 7.2 V - 2.0 Ah

Battery pack suitable for caulking guns AKP-050 and AKP-050L.



■ **BC-4814**

Quick Charger 7.2 V

Charging system for Ni-Cd and Ni-MH batteries from Panasonic and alternative battery packs. This charger can be used as a replacement of the original charger QC-050.



■ **TN-310**

**COX Pneumatic Caulking Gun for 310 ml cartridges
max. operating pressure 10 bar**

- pneumatic caulking gun without piston - compressed air streams directly towards the bottom of the cartridge (the cartridge must not be damaged or dented at the bottom)
- **NOT** suitable for sachets!
- regulation of ejection speed with integrated valve



■ **TN-600**

**COX Pneumatic Caulking Gun for 600 ml sachets
max. operating pressure 10 bar**

- pneumatic caulking gun with floating piston - compressed air streams directly towards the bottom of the floating piston which presses towards the sachet
- **NOT** suitable for cartridges!
- regulation of ejection speed with integrated valve



■ **TM-400**

**COX Pneumatic Caulking Gun for cartridges and sachets
up to 400 ml, max. operating pressure 10 bar**

- pneumatic caulking gun with piston rod - mechanical piston is pressed towards the bottom of the cartridge or sachet by compressed air
- regulation of ejection speed with integrated valve



■ **AC-325**

**COX Manual Caulking Gun 26:1
for 310 ml cartridges**

- the trigger ratio 26:1 enables to eject even high viscosity auto glass sealants
- heavy construction for long durability
- the established mechanism is equipped with a wear compensating device. That means, even after longer use, no clearance at the trigger



■ **AC-325C**

**COX Manual Caulking Gun 26:1
for cartridges and sachets up to 400 ml**

- the trigger ratio 26:1 enables to eject even high viscosity auto glass sealants
- heavy construction for long durability
- the established mechanism is equipped with a wear compensating device. That means, even after longer use, no clearance at the trigger



■ **AC-625C**

**COX Manual Caulking Gun 26:1
for cartridges and sachets up to 600 ml**

- the trigger ratio 26:1 enables to eject even high viscosity auto glass sealants
- heavy construction for long durability
- the established mechanism is equipped with a wear compensating device. That means, even after longer use, no clearance at the trigger



■ **CT-318**

**COX Manual Caulking Gun 18:1
for 310 ml cartridges**

- the trigger ratio 18:1 facilitates ejection of high viscosity sealants compared to standard caulking guns
- solid construction
- approved long-living mechanism

■ AV-418


**COX Manual Caulking Gun 18:1
for cartridges and sachets up to 400 ml**

- the trigger ratio 18:1 facilitates ejection of high viscosity sealants compared to standard caulking guns
- solid construction
- approved long-living mechanism

■ AV-618


**COX Manual Caulking Gun 18:1
for cartridges and sachets up to 600 ml**

- the trigger ratio 18:1 facilitates ejection of high viscosity sealants compared to standard caulking guns
- remaining content of sachets always visible thanks to the transparent barrel
- solid construction
- approved long-living mechanism

■ 2P1021


Plastic Adaptor for sachets

This plastic adaptor is part of every COX caulking gun for sachets and also parts of some battery powered caulking gun for sachets. Whenever a sachet was clamped in your gun you should replace this adaptor.

■ ASB-001


Adaptor Kit for Sachets

Sachet clamped? Or even ripped? We know the problem! And here is the solution: An adaptor that properly fits the cylinder of your gun. That does not clamp the sachet. And that empties the sachet economically. Suitable for following products from our range: AKP-050, AKP-050L, AV-418, AV-618, PCG-180-KF, TM-400, and many others on the market!

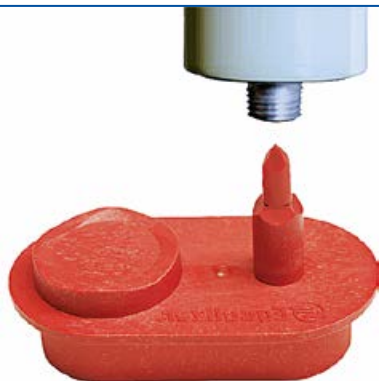
NEW: Now with metal support disc!



■ KA-539

Cartridge Opener

A handy tool to remove the bottom seal (left side in the figure) of many aluminium cartridges as well as to open the front seal (right side in the figure) without making a mess.



■ UTO-539

Cartridge Opener 2-fold for regular and wide nozzle openings

A handy tool to remove the bottom seal (left side in the figure) of many aluminium cartridges as well as to open the front seal (right side in the figure) without making a mess. The stem for the nozzle opening is stepped so that you can use it to open both common types of cartridges.



■ RKS-594

Nozzle Cutter

To open plastic cartridges and to cut the nozzles without risk of injury.



■ MK-081

Replacement Blades for RKS-594 package at 5 pieces



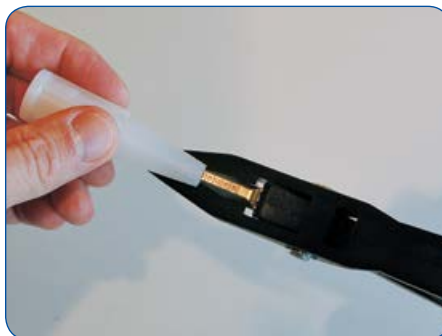
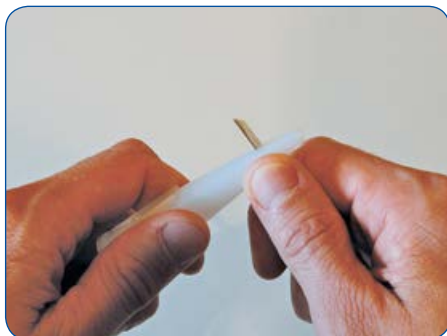
■ KSZ-163

Nozzle Cutting Pliers, made of plastic

For easy and tidy cutting a perfect V-notch for sealant application. Pliers made of fiber-reinforced plastic, blade made of aluminium with a millimeter scale.

These pliers cut a narrow and high V-notch which makes them perfect for the application of high-modulus adhesive material.

depth of cut (at a width of 7 mm): 22 mm



■ KSZ-306

Nozzle Cutting Pliers, metal version

Robust pliers for easy and tidy cutting a perfect V-notch for sealant application. Pliers made of metal, blade made of solid steel.

These pliers cut a classical wide V-notch. To apply a higher adhesive bead the nozzle opening must be cut to a bigger diameter.

depth of cut (at a width of 7 mm): 13 mm





■ **AGR-1105**

**Rubber Spacers Round (Ø 11 mm, height 5 mm)
mat with 55 pieces**

These self-adhesive round rubber spacers are equal with the ones used by BMW. But of course you can use them also on all other vehicles as a universal spacer.



■ **AGV-0906**

**Rubber Spacers Rectangular (LxWxH: 30 x 9 x 6 mm)
package at 100 pieces**

Self-adhesive rectangular rubber spacers. You can cut them according to your needs. They are a practically irreplaceable utility when installing windscreens.

Thanks to the self-adhesive underside you can put them wherever you want.





■ ABS-025

ProGlass Airbag Stickers package of 25 pieces

Almost every car manufacturer has an own airbag warning sticker for the windscreen. Our stickers help you to save time and money to purchase different stickers from the manufacturers. Our multi-useable airbag sticker is made of transparent adhesive foil and can be used for all passenger cars with driver airbag, passenger airbag and side-impact airbag.



■ TB-3006

Butyl Tape Ø 3 mm, reel at 6 m

This fine butyl tape is excellent to stick up the window frame before installing a windscreen or to fix a „stubborn“ moulding.



■ TO-1437

Pinchweld Cleaning Brushes package at 10 pieces

A clean pinchweld is the base for a properly installed and leak-proof windscreen. But it is not always necessary to use a vacuum cleaner. Many times a brush will be sufficient to clean the pinchweld before cutting down the old polyurethane. The brushes are made of horsehair that is soft to the paint but strong enough to brush away the dirt.



■ **KS-125**

Body Filler Applicator Set, in 3 parts

A perfect means to trim and correct fresh PU beads after setting a new glass or to fill up gaps. Remaining adhesive can easily be pulled of the plastic after it is cured.



■ **PRS-118**

ProGlass Rust Remove Pencil

A practical pen to quickly and tidily erase small corroded points. The „core“ of the pen consists of a 3 cm long bundle of fibre glass with a very good abrasive effect. Delivery with two additional bundles of fibre glass, stored inside the shaft, for replacement.



■ **PKS-012**

Anti-Corrosion Pen touch-up applicator with paint-brush, content: 12 ml

Repairing pen for small corrections of damage to the car's paintwork, e.g. at the pinchweld. Tidy application of the grey anti-corrosion liquid with brush, integrated in the lid. This product is quicksetting and needs no topcoat. That means, right after drying you can start installing the glass.







■ **LSS-085**

Conductive Silver Pen, 8.5 g

The conductive silver pen is suitable to metal-coat all smooth surfaces. This is a simple method to produce or repair electrically conductive connections. As this pen can also be used overhead it is especially suitable for the repair of defroster wires on a heated rear window.



■ **LSL-030**

Conductive Silver Paint, 3 g

Conductive paint on silver basis. Suitable to metal-coat almost all surfaces. Applied with a fine paint-brush it can be used e. g. for the repair of defroster wires on a heated rear window.



■ **HP-1002**

Fine Paint-Brush

Paint-brush in size 2 (= very fine tip) for the application of conductive silver paint.



■ **TVB-0333**

Fine Line Tape blue, 3 mm wide, reel at 33 m

The fine line tape is made of PVC as a masking tape for different workings. For example it is perfect to paste up a cutting line to facilitate the tailoring of window films. But you can also use it to easily paste up boundary lines when repairing the wires of a rear window heater.

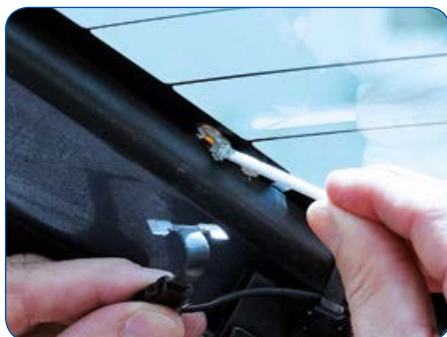


■ LSK-140

Conductive Silver Bonding Kit, 14 g

2-component epoxy for making conductive bondings.

This adhesive can be used in all situations where soldering is difficult or impossible. Therefore it is just perfect to re-affix a broken electrical connection to a heated rear window.



■ TPB-1910

Textile Protection Tape black
19 mm wide, reel at 10 m

■ TPB-1925

Textile Protection Tape black
19 mm wide, reel at 25 m



The textile protection tape is a multi-purpose adhesive tape. It can be used e.g. to treat creaking linings, plastic parts or cables. It is also very suitable to wrap cable loops.



■ GMK-300

ProGlass Glass/Metal Bonding Kit

- high-tensile and fast-curing special adhesive for glass/metal bondings
- for the permanent bonding of rearview mirror plates made of metal to windscreens
- the 2-component superglue cures hand-tight within 30 seconds
- package content is sufficient for bonding approximately 200 mirror plates
- adhesive cures clear-transparent
- the bonding is resistant against humidity and high variation in temperature
- Note: Not suitable for light-alloy mirror stems (e.g. Ford). Danger of tension cracks!
- package contents: 15 ml adhesive, 15 ml activator

quicklink to the product video



■ 3317

Loctite Glass/Metal Bonding Kit, large

Glas/metal bonding kit for durable bondings of interior mirrors. The package contains 24 g glue and 150 ml activator.



■ 3319

Loctite Glass/Metal Bonding Kit, small

Glas/metal bonding kit for durable bondings of interior mirrors. The package contains 5 g glue and 4 ml activator.



- **SFP-10**
- **SFP-100**

Mirror Adhesive Pads, package at 10 pieces

Mirror Adhesive Pads, package at 100 pieces

Mirror adhesive pads of OEM quality for tension-free bonding of interior mirrors (e.g. Ford). The double-sided adhesive pad has a very high tack. Degrease glass and mirror base well, then press on the mirror strongly for a few seconds - ready!

dimensions: 41 x 28 x 1,0 mm



- **RMS-105**

Loctite Interior Mirror Bonding Kit for tension-free bondings

Bonding kit for durable and tension-free bonding of all types of interior mirrors. Package contains 5 ml glue and 10 nylon squares (tintured with activator).



- **401**

Loctite 401 Superglue tube at 3 g in blister pack

Loctite 401 is especially suitable for bonding rubber, plastic and metal as well as porous materials like polyurethane foam many vehicle mouldings are made of. This cyanoacrylate glue dries within seconds and forms a transparent, hard layer. It is therefore not applicable for flexible bondings.

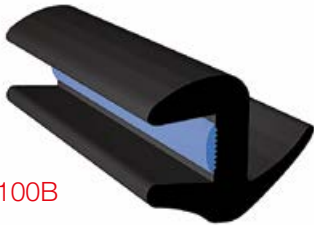


- **4850**

Loctite 4850 Superglue tube at 5 g in blister pack

Loctite 4850 stays flexible after drying and is particularly applicable for bonding elastomers and rubbers as well as many types of plastic, metal and porous materials. This cyanoacrylate glue dries within seconds and forms a transparent and flexible bonding.

UP-100B



■ **UP-100B**

**Universal-Moulding with Butyl Glue
Type 'T4', reel at 23 m**

■ **UP-105B**

**Universal-Moulding with Butyl Glue
16 mm wide, reel at 23 m**

■ **UP-107B**

**Universal-Moulding with Butyl Glue
19 mm wide, reel at 23 m**

■ **UP-200**

**Universal Underside Moulding, self-adhesive
Type 'VW', reel at 30 m**

UP-105B



UP-107B



UP-200



- With the universal mouldings, compared to model type mouldings, you are able to reduce storage space and at the same time, save a lot of money.
- Our universal mouldings are made of high-quality material and are easy to handle.
- Silk-matt surface for a perfect look
- Material particularly flexible, for neatly fitting borders
- Mouldings are suitable for all LSG windscreens with a thickness of 4-6 mm
- For easier installation the glass channel has a thin layer of butyl glue (marked blue in the figure)
- Underside moulding UP-200 with strong adhesive tape (marked blue in the figure) for safe fixation on the glass
- The included metal filament (white spot in the figure / not for UP-200) avoids unintentional stretching of the moulding during the installation or shrinking over time

■ **UPI-5024**

Underside Moulding Installer

This moulding installer helps to install the underside moulding UP-200 in the correct position.

Therewith the moulding will automatically be affixed in a constant distance to the glasses edge. By using this tool you achieve a good looking, trouble-free and easy installation.



■ **MCA-265**

Standard Moulding Maker

The standard moulding maker enables to mitre universal mouldings.

We recommend to stick the cuts with Loctite 4850 superglue.

Suitable replacement blade: TK-5, TK-10 or TKS-100



Allocation Table of Universal Mouldings

YOC	MODEL	FRONT	REAR	YOC	MODEL	FRONT	REAR	YOC	MODEL	FRONT	REAR
ALFA				FIAT (continued)				LANCIA (continued)			
90-94	33 (II)	105		85-	Croma	107	107	96-	Y11	105	
85-93	75	105		3/01-	Doblo	107		94-	Zeta	100	
84-87	90	105		99-	Multipia	100		MAZDA			
84/95-00	145/146	100		98-	Palio	107	200	89-	323 IV BG 2trg. HTB	105	
00-	147	105		94-	Punto I C	107		89-94	323BG/L IV5trgFLH	105	
92-97	155	105		99-	Punto II	105		9/94-98	323 L V 5trg.	105	
97-	156	100		98-	Seicento		105	87/88-90	626III L+K	105	
95-	GTV/Spider	105		01-	Stilo 3/5trg. K	200		88-91	626IIICp GD+FLH	105	
AUDI				87-	Tipo/Tempira	105		98-	Demio Van	100	
89-94	80 B3 Coupé	100		87-	Tipo 3/5trg.		105	90-	MX 5	105	
91/94-97	100 C4/A6 L+K	100		94/95-	Ulysse/Scudo	100		99-	Premacy	100	
91/94-97	100 C4/A6 L		100	FORD				92-	RX7 Cp III	105	
96-	A3	100		90-98	Escort IV 3/5trg.		105	MERCEDES			
94-11/00	A4 L+K	100		98-	Focus	100	200	96-	W170SLK Roadster		200
BMW				95-	Galaxy	100		00-	W203 L+K	107	
91/93-98	E36 3er L+K	105		93-	Mondeo FLH,L,K	107		88-96	MB 100 D	107	
91-	E36 3erCompact		105/107	82-86	Sierra I	107		96-	Vito Transporter	107	
96-	Z3 Roadster	105		87-	Sierra II	107		MITSUBISHI			
00-	Mini Cooper	107		86-	Transit II	107		95-	Carisma	105	
CITROEN				97-00	Transit III	107		88-91	Colt III C50	105	
90-	AX	107		00-	Transit IV	107		93-	ColtIVCC/Lancer	105	
83-92	BX I u. II	105		HONDA				96-	Colt V	100	
83-87	BX I L		105	84-87	Civic III CRX	105		92-	Eclipse I Cp	105	
83-87	BX Break		105	92-	Civic V 3trg. SR3	107		93-96	Galant L	105	
94-	Evasion Jumpy	100		92-97	CivicV CRX TargaEG2	107		97-	Galant EAO	105	
91-	XM L	107		95-	Civic V L 5trg.	107		96-	L200 Pick-Up	100	
97-	Xsara	107		91-	Concerto SJ4	105		88-92	LancerC60L+HTB	105	
00-	Xsara Picasso	100		93-	Integra	107		93-	Lancer L+K CBO	105	
91-	ZX L	107		95-11/98	Shuttle III	107		91-98	Pajero II Jeep	107	
DAEWOO				HYUNDAI				99-	Pajero Pinin	105	
97-	Lanos	100		95-	Accent I / EXCEL	105		95/96-	Space Gear/1400	100	
97-	Leganza	105		00-	Accent II	100		91-95	Space Runner	100	
97-	Nubria	105		98-	Atos	100		99-	Space Star	105	
98-	Cielo	105		00-	Atos Prime	100		92-	Space Wagon II	100	
DAIHATSU				06/96-	Cupé J2	100		99-	Space Wagon III	105	
99-	Cuore V L701	105		91-	Lantra	105		NISSAN			
97-	Gran Move	105		98-	Starex / H200	100		00-	Almera N16	105	
98-	Sirion	105		KIA				00-	Almera Tino		200
97-	Terios	105		01-	Carens	100		00-	Maxima	105	
FIAT				99-	Carnival	100		82-1/92	Micra K10		105
94-	Barchetta C	107		96-	Clarus	100		93-	Serena	105	
95/96-	Bravo/Brava	100		01-	Rio	100		86-93	Terrano I/Pick-Up	105	
95/96	Marea	100		93-	Sephia I	105		OPEL			
95-	Bravo/Marea		200	98-	Sephia II / Shuma	100		98-	Astra G	107	
				LANCIA				98-	Astra G K		105
				85-	Y10	105	105	04/93-	Corsa B 3trg.		105
								94-	Corsa B Combo		105

Legend: 100 = Art. UP-100B / 105 = Art. UP-105B / 107 = Art. UP-107B / 200 = Art. UP-200

Cp = coupé / C = convertible / K = estate / L = limousine

No responsibility is taken for the corectness of this information!

Allocation Table of Universal Mouldings

YOC	MODEL	FRONT	REAR	YOC	MODEL	FRONT	REAR	YOC	MODEL	FRONT	REAR
OPEL (continued)				SUBARU				VW (continued)			
00-	Corsa C	107		98-	Forester	107		97-	Lupo	200	200
91-98	Frontera I	105		95-98	Legacy II	107		92-96	Passat B4 K		200
99-	Frontera II	105		SUZUKI				98-	Passat B5 K		200
84-92	Kadett E L, K+C	105		95-	Baleno L+K	105		90-	Pololl+II L+Cp		200
84-92	Kadett E L+K		105	10/98-	Jimny	100		95-00	Polo A03		200
93-	Monterey	105		89-93	Vitara I	105		95-00	Polo Classic 4trg.	107	
86-93	Omega A	105		93-98	Vitara II	105		00-02	Polo A04		200
97-	Sintra/GM Transport	107		TOYOTA				95-	Sharan	100	200
94-	Tigra	107		91-	4 Runner	105		00-	Sharan		200
95-	Vectra B	107		98-	Avensis L	100		91-	Bus T4 alle	100	
96-	Vectra B K		105	08/01-	Avensis Verso	100		USA MODELS			
99-	Zafira	107	105	08/01-	Camry	100		99-	Chevrolet Alero	107	
PEUGEOT				92-97	Carina IV AT 190/192	105		94-97	Cadillac Seville STS	107	
91-	106		105	90-93	Celica I ST 182	107		93-	Camaro Coupé	100	
89-	205		105	94-7/99	Celica II ST 202	105		90-94	Chevrolet Lumina	105	
98-	206	100		08/99-	Celica III	100		93-94	Chevr.SBlazer/Jimmy	105	
96-	406 L+K	100		87-92	Corolla EE90 L+K	105		94-99	ChevrS10Blaz./Jimmy	107	
94-	806	100		87-92	Corolla EE92 LTB	105		84-95	Chrysler Voyager II	105	105
RENAULT				92-97	Corolla KE 101 LTB	105		96-	Chrysler Voyager III	100	
94-00	Laguna I L+K	107		97-	Corolla E11	100		94-	Chrysler Vision	105	
01-	Laguna II L+K	107		95-	Hi-Ace LH102	107		98-	Chrysler 300 M	105	
97-	Megane Scénic	105		8/97-	Hi-Lux	107		95-99	Cirrus / Stratus	100	
92-01	Safrane	105		8/96-98	Landcruiser HDJ90	100		00-	Chrysler Neon	107	
00-	Midlum	107		98-	Landcruiser HDJ100	100		97-	DodgeDakote2DClub	107	
96-	Premium	107		99-	Lexus RX 300	100		93-	JeepGrandCherokee	107	
ROVER				4/99-	Lexus IS 200	100		97-	Jeep Wrangler	105	
90-95	200	107		91-	MR2 Cp II	107		BUSSES / MOBILE HOMES			
95-	200	100		90-00	Previa I	107		90-	DenOustenAlliance	107	
95-	400	107		00-	Previa II	100		98-	Hymer S-Kl.	107	
97-	Freelander	100		01-	Prius	100		91-	Frankia Pilote	107	
97-	MG F Roadster	100		07/00	RAV4 III	100					
SAAB				90-96	Starlet EP81	107					
94-	900	107		96-	Starlet EP91	100					
SEAT				99-	Yaris	100					
96-	Alhambra	100		99-	Yaris Verso	100					
00-	Alhambra		200	VOLVO							
97-	Arosa	200	200	88/99-97	440/460 L/Sth.	107					
94-00	Cordoba 3/5trg.	107		92-/97-	850/S70/V70 L+K	107					
93-	Ibiza II	107	200	96-	S40/V40	105					
00-	Ibiza III		200	VW							
91-00	Toledo I	107		98-	Beetle	200	200				
SSANGYONG				91-98	Golf III	100					
95-	Musso	107		91-98	Golf III L+K		200				
				98-	Golf IV L+K		200				
				98-	Golf IV L+K		200				
				98-	Bora		200				

Legend: 100 = Art. UP-100B / 105 = Art. UP-105B / 107 = Art. UP-107B / 200 = Art. UP-200

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■ **GKP-100**

**Rubber Adhesive Pads Ø 10 mm
1.5 mm thick, package at 10 pieces**

■ **GKP-200**

**Rubber Adhesive Pads Ø 20 mm
1.5 mm thick, package at 10 pieces**

These self-adhesive rubber pads can be used as a non-skid support pad or as universal spacers.



■ **KKP-130**

**Velcro Adhesive Pads Ø 13 mm
package at 10 pieces**

■ **KKP-220**

**Velcro Adhesive Pads Ø 22 mm
package at 10 pieces**

These pads can be used as a protecting cushion on pull knife blades or power tool blades (e. g. BTB, Fein) and so they help avoiding scratches on the pinchweld or on the glass.



■ **TMF-5545-3**

**Sponge Rubber Tape (Neoprene) 5 x 5 mm
double-sided self-adhesive, 3 reels at 4.5 m**

■ **TMF-5545-P**

**Sponge Rubber Tape (Neoprene) 5 x 5 mm
double-sided self-adhesive, 12 reels at 4.5 m**

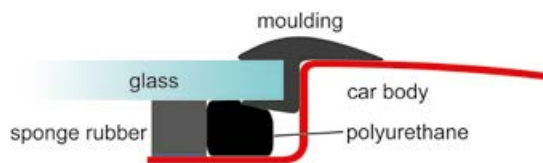
These tapes are used as a spacer between the car body and bonded windscreens, rear and side windows. At the same time they make a nice view from inside. The doublesided adhesive tapes also prevent a freshly installed glass from sliding.



- **TMB-5555-3** **Sponge Rubber Tape (Neoprene) 5 x 5 mm self-adhesive, 3 reels at 5.5 m**
- **TMB-5555-P** **Sponge Rubber Tape (Neoprene) 5 x 5 mm self-adhesive, 12 reels at 5.5 m**
- **TMB-6655-3** **Sponge Rubber Tape (Neoprene) 6 x 6 mm self-adhesive, 3 reels at 5.5 m**
- **TMB-6655-P** **Sponge Rubber Tape (Neoprene) 6 x 6 mm self-adhesive, 12 reels at 5.5 m**

Sponge Rubber Tapes are mandatory for many Asian cars and work as a spacer between car body and windscreen. At the same time they make a nice view from inside.

The high-quality neoprene sponge has a high density (small pores) and a rich dark colour.



- **TMC-5545-3** **Sponge Rubber Tape (PE) 5 x 5 mm self-adhesive, 3 reels at 4.5 m**
- **TMC-5545-P** **Sponge Rubber Tape (PE) 5 x 5 mm self-adhesive, 12 reels at 4.5 m**
- **TMC-6645-3** **Sponge Rubber Tape (PE) 6 x 6 mm self-adhesive, 3 reels at 4.5 m**
- **TMC-6645-P** **Sponge Rubber Tape (PE) 6 x 6 mm self-adhesive, 12 reels at 4.5 m**

The polyethylene (PE) sponge rubber tapes are used in the same way than the higher grade neoprene tapes.

The difference is the lower density of the PE sponge (bigger pores) and the lighter colour which is more like a dark grey than black.



- **TAC-1210** Acrylic Tape transparent, 12 mm wide reel at 10 m
- **TAC-1910** Acrylic Tape transparent, 19 mm wide reel at 10 m
- **TAC-2510** Acrylic Tape transparent, 25 mm wide reel at 10 m
- **TAC-5005** Acrylic Tape transparent, 50 mm wide reel at 5 m

The entirely transparent adhesive tape is 1.0 mm thick and has an extraordinary high tack, also under high temperatures. It is virtually invisible! Most suitable for glass bondings if unobtrusive look is desired, e.g. for antennas and sensors.



- **TAB-0910** Acrylic Tape black, 9 mm wide reel at 10 m
- **TAB-1210** Acrylic Tape black, 12 mm wide reel at 10 m
- **TAB-1910** Acrylic Tape black, 19 mm wide reel at 10 m
- **TAB-2510** Acrylic Tape black, 25 mm wide reel at 10 m
- **TAB-5005** Acrylic Tape black, 50 mm wide reel at 5 m

The deep black double-sided adhesive tape is 1.1 mm thick and has an extraordinary high tack, also under high temperatures. It is suitable to bond e.g. antennas on glass, to fix trims and emblems or to attach linings.



■ **TF-0910**

**Polyethylene Tape dark-grey, 9 mm wide
reel at 10 m**

■ **TF-1210**

**Polyethylene Tape dark-grey, 12 mm wide
reel at 10 m**

■ **TF-1910**

**Polyethylene Tape dark-grey, 19 mm wide
reel at 10 m**

■ **TF-2510**

**Polyethylene Tape dark-grey, 25 mm wide
reel at 10 m**

The dark-grey double-sided adhesive tape is 0.95 mm thick. It has very good final strength and is especially low-priced. It is most suitable to fix trims and for all other workings which use a lot of tape.



■ **TPO-3833**

**Fixing Tape orange, perforated, 38 mm wide
reel at 33 m**

■ **TPO-7691**

**Fixing Tape orange, perforated, 76 mm wide
reel at 91 m**

Especially designed to fix trims, to keep freshly bonded glasses from sliding and to mask the corners of a glass during storage and transport to prevent scratching. Thanks to the perforation (every 15 cm) this tape is very easy to portion from the reel.

The most important thing hereby is: This tape is removable without any residue and it does not corrode the surface of e.g. varnish, rubber or plastic.



■ **STG-3850**

**Woven Adhesive Tape black, 38 mm wide
reel at 50 m**

■ **STG-5050**

**Woven Adhesive Tape black, 50 mm wide
reel at 50 m**

Very densely woven and strong adhesive tape to mask and protect all sensitive areas such as mudguard, bonnet edge, A-pillar and roof edge, while cutting out a glass with wires or hand knives. In short-term use this tape usually can be removed without residues and does not corrode the surface of e.g. varnish, rubber or plastic.

NOTE:

In long-term use or when exposed to direct sunlight this tape can leave residues on the vehicle's varnish.



■ **GTG-5050**

**Woven Adhesive Tape grey, 50 mm wide
reel at 50 m**

Very densely woven and strong adhesive tape to mask and protect all sensitive areas such as mudguard, bonnet edge, A-pillar and roof edge, while cutting out a glass with wires or hand knives. In short-term use this tape usually can be removed without residues and does not corrode the surface of e.g. varnish, rubber or plastic.

NOTE:

In long-term use or when exposed to direct sunlight this tape can leave residues on the vehicle's varnish.



■ **MTP-3850**



**Premium Paper Masking Tape 38 mm wide
reel at 50 m**

High-grade paper masking tape with a special adhesive film - even after several days of application it does not leave any residue on a vehicle's paintwork, rubber and plastic parts. Due to the high stability (does not elongate noticeable) it is ideal to secure freshly bonded wind-screens against sliding. Thanks to the paper carrier the tape can be sectioned very easily and is though very strong.



■ **ATG-5050**

**Woven Adhesive Tape silver, 50 mm wide
reel at 50 m**

Strong woven adhesive tape to secure freshly bonded windscreens against sliding and for common jobs.

NOTE:

In long-term use or when exposed to direct sunlight this tape can leave residues on the vehicle's varnish.



■ **MTG-5050**

**Paper Masking Tape yellow, 50 mm wide
reel at 50 m**

Simple paper masking tape. Good stability (does not elongate easily) and therefore also suitable to secure freshly bonded windscreens against sliding. In short-term use this tape usually can be removed without residues and does not corrode the surface of e.g. varnish, rubber or plastic.

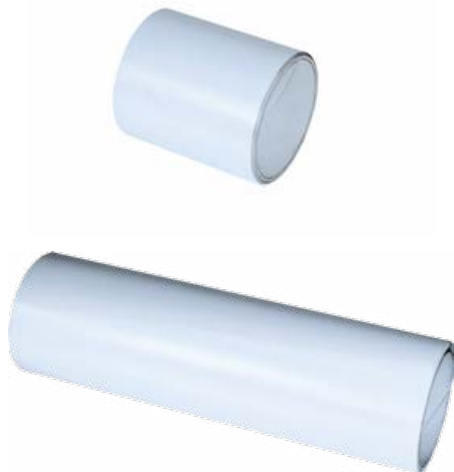
NOTE: In long-term use or when exposed to direct sunlight this tape can leave residues on the vehicle's varnish.



■ **KRS-1588**

**Eraser Disk Ø 88 mm x 15 mm
to remove glue residues**

With this eraser disk all residues of adhesives can be removed without effort from car varnish or other surfaces. Just insert it to the cordless drill and erase the glue residues.



■ **SFT-1025**

Clear Protective Film, 100 mm wide reel at 2.5 m

■ **SFT-1525**

Clear Protective Film, 150 mm wide reel at 2.5 m

■ **SFT-2025**

Clear Protective Film, 200 mm wide reel at 2.5 m

■ **SFT-2525**

Clear Protective Film, 250 mm wide reel at 2.5 m

■ **SFT-3025**

Clear Protective Film, 300 mm wide reel at 2.5 m

The self-adhesive clear polyurethane foil has a smooth and glossy surface. It has been developed as a stone-chipping protection for painted car body parts. Thanks to the extreme elongation the film can be applied wrinkle-free to strongly curved parts, e. g. like the housing of a side mirror.

All painted surfaces like fenders, hoods or side mirrors can be protected against stone-chipping by applying this almost invisible film.

Technical data:

- film thickness: 200 µm
- elongation: 700 %
- temperature resistance: -40 to +120°C
- durability: 7-10 years
- delivery form: 2.5 m on cardboard reel (inside-Ø 76 mm)



■ **SFS-1550**

Black Protective Film, 150 mm wide reel at 5 m

This self-adhesive black protective foil has a medium structured surface. It is suited for covering B-pillars or door frames, as a stone-guard body protection or to protect the trunk sill.

Technical data:

- film thickness: 150 µm
- temperature resistance: -40 to +90°C
- durability: 7-10 years
- delivery form: 5 m on cardboard reel (inside-Ø 76 mm)





■ **PES-2500**

PE Protection Foil, self-adhesive, 82 cm wide reel at 25 m

■ **PES-0165**

PE Protection Foil, self-adhesive, 82 cm wide reel at 1.65 m, for one application



This foil is a temporarily substitute for damaged side or rear windows, to keep the vehicle mobile. The small reel is ideal to replace a toughened safety glass window and should always stay in your vehicle.

The self-adhesive, transparent PE foil (film thickness: $130\text{ }\mu\text{m} = 0,13\text{ mm}$) is easy to attach. The bonding film is very strong and allows tight stretching when fixing. This reduces driving noise to a minimum. Crinkle-free mounting assures that the vehicle will stand even a heavier rain shower.

TIP: Due to the strong bonding film this foil should only be applied on varnishes that are in good condition. In doubt it is recommended to re-condition the area with a polishing compound. For removal you should warm up the film with a hot air gun - this will reduce the glue residues (possible residues can be removed with the eraser disc KRS-1588).



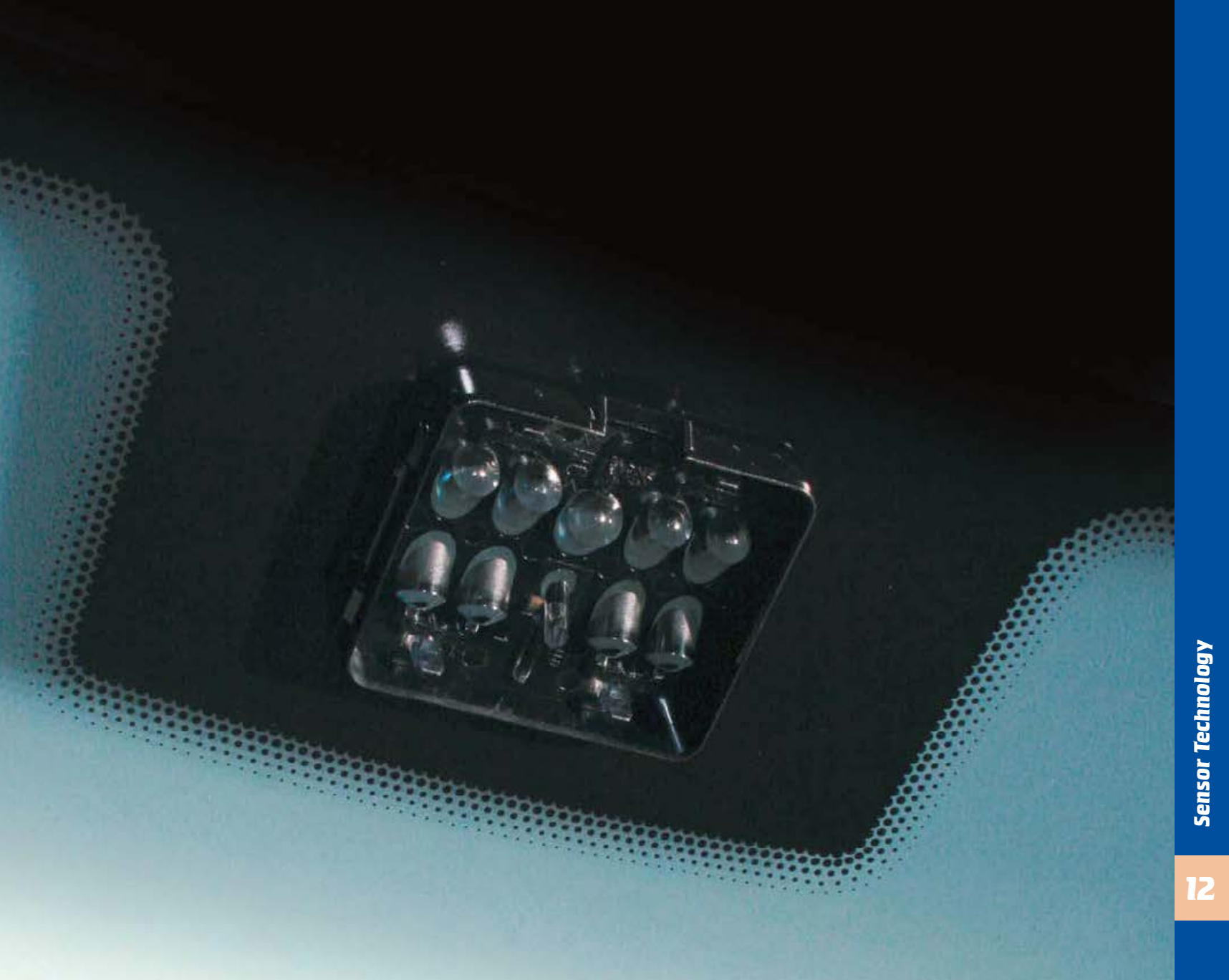
■ **PMS-3000**

Window Guard™ PE Protection Foil, self-adhesive, perforated, 91 cm wide, reel at 30 m

The protection foil is a temporarily substitute for damaged side or rear windows and keeps your vehicle mobile that way.

Window Guard™ is a self-adhesive, clear PE foil (film thickness: $83\text{ }\mu\text{m} = 0,083\text{ mm}$) with a high level of transparency. Due to the perforation it is especially easy to attach. The bonding film is very strong and allows tight stretching when fixing. This reduces driving noise to a minimum. Crinkle-free mounting assures that the vehicle will stand even a heavier rain shower.

TIP: Due to the strong bonding film this foil should only be applied on varnishes that are in good condition. In doubt it is recommended to re-condition the area with a polishing compound. For removal you should warm up the film with a hot air gun - this will reduce the glue residues (possible residues can be removed with the eraser disc KRS-1588).



Rain, Light and Air Con Sensors in best quality from OE manufacturers

The basic version of more and more vehicles is already equipped with a rain or light sensor. Since 2003 BMW additionally uses an anti-fogging sensor which controls the air conditioning system.

Indeed it is possible in most cases to transfer the optical unit from the old to the new windscreen, but therefore the adhesive pad - means the crystal clear bond between optical unit and windscreen - has to be renewed. Depending on the model, this can be very time consuming. It is faster and easier to use a new optical unit (all our optical units are

already equipped with an adhesive pad).

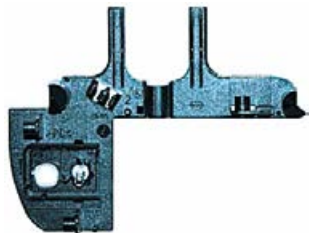
To ensure a faultless function of the extensive controlling electronics you should solely use genuine parts. Reproductions which you can be found on the market can eventually lead to installation problems or even malfunction.



■ SOR-199

Rain Sensor for Alfa Romeo, BMW, Mercedes, Rover

Vehicle Type	Eurocode	YOC
Alfa 147	2037	2001 -
Alfa 166	2036	1998 -
BMW E38	2433	1994 - 2001
BMW E39	2434	12/1995 - 09/2001
BMW E46 Lim./Coupé	2436	1998 - 09/2001
BMW E53 X5	2439	04/2000 - 09/2001
Mercedes W129 SL	5331	1989 - 2001
Mercedes W140 S-Class	5333	1991 - 1998
Mercedes W202 C-Class	5334	03/1993 - 05/2000
Mercedes W203 C-Class	5351	05/2000 - 04/2003
Mercedes W203 Sport Coupé	5352	03/2001 - 06/2003
Mercedes W208 CLK	5341	1997 - 2002
Mercedes W210 E-Class	5337	1995 - 2002
Mercedes W215 CL	5345	03/1999 -
Mercedes W220 S-Class	5344	1998 - 08/2002
Mercedes W230 SL	5346	2001 -
Rover 75	7035	06/1999 - 01/2004



■ SOL-198

Base Plate with Light Sensor for Mercedes W203 C-Class

Vehicle Type	Eurocode	YOC
Mercedes W203 C-Class	5351	05/2000 - 04/2003



■ SPL-801

Cover Plate for Mercedes W203 C-Class

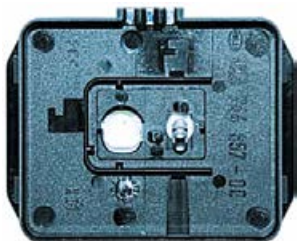
Vehicle Type	Eurocode	YOC
Mercedes W203 C-Class	5351	05/2000 - 04/2003



■ SOL-197A

Light and Rain Sensor for Mercedes

Vehicle Type	Eurocode	YOC
Mercedes W203 C-Class	5351	05/2003 -
Mercedes W203 Sport Coupé	5352	07/2003 -
Mercedes W209 CLK	5353	2002 -
Mercedes W209 Cabrio	5353	2003 -
Mercedes W211 E-Class	5347	2002 -
Mercedes W219 CLS	5360	2004 -
Mercedes W220 S-Class	5344	09/2002 -
Mercedes W221 S-Class	5362	2005 -



■ SOL-197B

Light Sensor for Mercedes W203 C-Class

Vehicle Type	Eurocode	YOC
Mercedes W203 C-Class	5351	05/2003 -

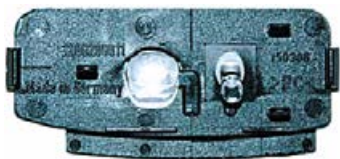


■ SPL-808

Base Plate for MB

Vehicle Type	Eurocode	YOC
Mercedes W203 C-Class	5351	05/2003 -
Mercedes W203 Sport Coupé	5352	07/2003 -
Mercedes W209 Coupé	5353	2002 -
Mercedes W209 Cabrio	5353	2003 -

Detailed vehicle type allocation table on our website at www.proglass.de or upon request!



■ **SOL-803**

Light Sensor for Mercedes

Vehicle Type	Eurocode	YOC
Mercedes W215 Coupé	5345	03/1999 -
Mercedes W220 S-Class	5344	10/1998 - 08/2002
Mercedes W230 SL	5346	2001 -



■ **SKA-502**

Anti-Fogging Sensor for BMW

Vehicle Type	Eurocode	YOC
BMW E60/E61 5-er	2445	2003 -
BMW E63/E64 6-er	2446	2004 -
BMW E65 7-er	2443	2003 -
BMW E87 1-er	2448	2004 -
BMW E90 3-er	2447	2005 -



■ **SKA-502M**

Fit-Up Aid for BMW Anti-Fogging Sensor

Vehicle Type	Eurocode	YOC
BMW E60 5-er	2445	2003 -
BMW E63/64 6-er	2446	2004 -
BMW E65 7-er	2443	2003 -
BMW E87 1-er	2448	2004 -
BMW E90 3-er	2447	2005 -



■ SOL-192A

Light and Rain Sensor for Mercedes, Nissan, Renault

Vehicle Type	Eurocode	YOC
Mercedes BM639 Viano / Vito	5438	09/2003 -
Nissan GT-R	6053	2008 -
Nissan Micra K12	6011	02/2003 -
Nissan Murano Z51	6051	2008 -
Nissan Note	6041	2006 -
Nissan Pathfinder / Navara	6037	2005 -
Nissan Qashqai	6044	2006 -
Nissan Tiida	6046	2007 -
Nissan X-Trail	6047	2007 -
Renault Scénic / Grand Scénic	7257	06/2003 -
Renault Modus	7263	07/2004 -



■ SOL-192A-R

Retainer for SOL-192A

Replacement for the original retainer ring in case it breaks during disassembly or has been damaged during an earlier windscreen exchange.



■ SOL-192C

Light and Rain Sensor for BMW, Renault

Vehicle Type	Eurocode	YOC
BMW E60/E61 5-er	2445	04/2007 -
BMW E70 X5	2452	02/2007 -
BMW F07 5-er GT	2461	2009 -
BMW F07 5-er	2459	2010 -
Renault Mégane III	7279	10/2007 -
Renault Kangoo II	7474	2008 -
Renault Laguna III	7273	2008 -



■ **SOL-192D**

Light and Rain Sensor for Fiat, Mercedes, Smart, VW

Vehicle Type	Eurocode	YOC
Fiat Ducato III	3750	07/2006 -
Mercedes BM906 Sprinter	5439	06/2006 -
Mercedes W169 A-Class	5358	2004 -
Mercedes W171 SLK	5356	2004 - 2010
Mercedes W245 B-Class	5358	2005 -
Smart ForTwo	5368	2007 -
Smart ForFour	5359	2004 -
Smart Roadster	5355	2003 -
VW Crafter	8590	04/2006 -



■ **SOL-189**

Light and Rain Sensor for Citroen, Mercedes, Peugeot

Vehicle Type	Eurocode	YOC
Citroen C-Crosser	2738	2007 -
Mercedes W204 C-Class	5364	2007 -
Mercedes W212 E-Class	5371	2009 -
Mercedes W207 E-Class Coupé	5370	2009 -
Mercedes GLK	5369	2008 -
Peugeot 4007	6555	2007 -



■ **SOL-189B**

Light and Rain Sensor for Chrysler, Jeep

Vehicle Type	Eurocode	YOC
Chrysler Grand Voyager	A230	2008 -
Jeep Cherokee	AJ16	2008 -



■ SOL-193A

Light and Rain Sensor for BMW and Mazda

Vehicle Type	Eurocode	YOC
BMW E39 5-er Limousine	2434	09/2001 - 06/2003
BMW E39/2 5-er Touring	2434	09/2000 - 02/2004
BMW E46/2 3-er Coupé	2437	01/1999 - 05/2006
BMW E46/2C 3-er Cabrio	2437	12/1999 - 11/2006
BMW E46/3 3-er Touring	2436	06/1999 - 08/2005
BMW E46/4 3-er Limousine	2436	01/1998 - 03/2005
BMW E53 X5 - SUV	2439	09/2001 - 11/2006
BMW E65 7-er	2443	10/2001 - 03/2003
BMW E83 X3 - SUV	2449	09/2003 - 08/2007
Mazda 2 (J37L)	5173	2007 -
Mazda 3 (J48C)	5166	2003 -
Mazda 6 (J50C)	5164	2005 -



■ SOL-193B

Light and Rain Sensor for BMW

Vehicle Type	Eurocode	YOC
BMW E46 Compact	2442	06/2001 - 08/2001
BMW E60 5-er Limousine	2445	03/2003 -
BMW E61 5-er Touring	2445	03/2004 -
BMW E63 6-er Coupé	2446	09/2003 -
BMW E64 6-er Cabrio	2446	12/2003 -
BMW E87 1-er Limousine	2448	06/2004 -
BMW E90 3-er Limousine	2447	12/2004 -
BMW E91 3-er Touring	2447	06/2005 -
BMW E92 3-er Coupé	2454	06/2006 -
BMW E93 3-er Cabrio	2450	12/2006 -
BMW Z85 Z4 Roadster	2444	02/2003 -
BMW Z85 Z4 Coupé	2453	03/2006 -



■ SOL-193C

Light and Rain Sensor for BMW

Vehicle Type	Eurocode	YOC
BMW R50 Mini Coupé One, Cooper	2440	07/2004 -
BMW R52 Mini Cabrio	2440	04/2004 -
BMW R53 Mini Coupé, Cooper S		07/2004 -
BMW Mini / Mini Clubman	2455	2006 -



■ SOL-193D

Light and Rain Sensor for Mercedes

Vehicle Type	Eurocode	YOC
Mercedes W163 M-Class	5343	10/2000 - 06/2005



■ SOL-193E

Light and Rain Sensor for Mercedes

Vehicle Type	Eurocode	YOC
Mercedes W164 M-Class / GL-Class	5361	07/2005 -
Mercedes W251 R-Class	5363	10/2005 -



■ SOL-193F

Light and Rain Sensor for Chrysler, Dodge, Jeep

Vehicle Type	Eurocode	YOC
Chrysler 300C	A234	2004 -
Dodge Charger	-	2006 -
Jeep Commander	AJ11	2006 -
Jeep Grand Cherokee	AJ10	2005 -



■ SOL-193G

Light and Rain Sensor for Land Rover, Range Rover

Vehicle Type	Eurocode	YOC
Land Rover L317 Defender Successor	-	2008 -
Land Rover L319 Discovery 3 (LR3)	7032	2004 -
Land Rover L320 Baby Range Rover	-	2005 -
Land Rover L322 FaceLift	-	2007 -
Land Rover Freelander	7038	2007 -
Range Rover Sport	7036	2005 -



■ SOL-193H

Light and Rain Sensor for Peugeot

Vehicle Type	Eurocode	YOC
Peugeot 1007	6547	2004 -
Peugeot 206	6539	07/2001 -
Peugeot 206CC	6545	03/2001 -
Peugeot 207	6548	2006 -



■ SOL-193J

Light and Rain Sensor for Citroen

Vehicle Type	Eurocode	YOC
Citroen C2	2731	2003 -
Citroen C3	2726	2005 - 2010

Replacement Adhesive Pads for rain and light sensors

For more and more vehicles a rain or light sensor is already part of the standard equipment. When exchanging a windscreen, the optical unit of the sensor is also often being replaced, though it is not necessary. Our special adhesive pads, made of entirely transparent, self-adhesive material, enable you to reuse the optical unit.

How to proceed:

First remove the optical unit carefully from the glass with an installation stick or a sensor removal tool. As most of the optical units are made of plastic, they must not get in contact with solvent based cleaners. It is best to peel off the remaining glue with the fingers. For the final cleaning, use a cleaner that

evaporates without residue and does not corrode the plastic, e.g. our primer/cleaner HRS-100. Now first stick on the adhesive pad to the optical unit and then the whole part to the windscreen. For bubble-free, perfect results use our applicator KPA-250.

By the way, our adhesive pads are also suitable for many sensors with a gel pad. On our website you can find an instruction how to proceed in that case. Upon request our sales staff will also be happy to send it to you.



Light/Rain Sensor Adhesive Pad for Toyota

Dimensions: 25 x 34 x 2.0 mm

■ **KPL-154** Package at 5 pieces

■ **KPL-154-1** Package at 1 piece



Light/Rain Sensor Adhesive Pad for Seat, VW

Dimensions: Ø 32 x 1.5 mm

■ **KPL-166** Package at 5 pieces

■ **KPL-166-1** Package at 1 piece

Detailed vehicle type allocation table on our website at www.proglass.de or upon request!



Light/Rain Sensor Adhesive Pad for Honda, Kia, Opel, Saab
Dimensions: 40 x 27 x 1.0 mm

■ **KPL-185** Package at 5 pieces

■ **KPL-185-1** Package at 1 piece



Light/Rain Sensor Adhesive Pad for Citroen, Mercedes, Peugeot
Dimensions: 40 x 35 x 1.5 mm

■ **KPL-189** Package at 5 pieces

■ **KPL-189-1** Package at 1 piece



Light/Rain Sensor Adhesive Pad for Chrysler, Jeep
Dimensions: 40 x 35 x 1.0 mm

■ **KPL-189B** Package at 5 pieces

■ **KPL-189B-1** Package at 1 piece



Light/Rain Sensor Adhesive Pad for Alfa, Audi, Opel, Porsche, Seat, Toyota
Dimensions: 27 x 32.5 x 1.5 mm

■ **KPL-190** Package at 5 pieces

■ **KPL-190-1** Package at 1 piece

Detailed vehicle type allocation table on our website at www.proglass.de or upon request!



Light/Rain Sensor Adhesive Pad for Citroen, Fiat, Mercedes, Nissan, Peugeot, Renault, Smart, VW
Dimensions: Ø 43 x 2.0 mm

■ **KPL-192** Package at 5 pieces

■ **KPL-192-1** Package at 1 piece



Light/Rain Sensor Adhesive Pad for BMW, Renault
Dimensions: Ø 43 x 2.0 mm

■ **KPL-192C** Package at 5 pieces

■ **KPL-192C-1** Package at 1 piece



Light/Rain Sensor Adhesive Pad for BMW, Chrysler, Citroen, Dodge, Jeep, Landrover, Mazda, Mercedes, Peugeot, Range Rover
Dimensions: 55 x 33 x 1.5 mm

■ **KPL-193** Package at 5 pieces

■ **KPL-193-1** Package at 1 piece



Light/Rain Sensor Adhesive Pad for Mercedes
Dimensions: 70 x 42 x 1.5 mm

■ **KPL-197** Package at 5 pieces

■ **KPL-197-1** Package at 1 piece



Light/Rain Sensor Adhesive Pad for Mercedes
Dimensions: 50 x 41.5 (34 x 12.5) x 1.0 mm

■ **KPL-198** Package at 5 pieces

■ **KPL-198-1** Package at 1 piece



Rain Sensor Adhesive Pad for Chevrolet, Honda, Hyundai, Kia, Opel,
Dimensions: 40 x 28 x 1.0 mm

■ **KPR-188** Package at 5 pieces

■ **KPR-188-1** Package at 1 piece



Light/Rain Sensor Adhesive Pad for Citroen, Fiat, Lancia, Mercedes, Peugeot
Dimensions: Ø 27 x 1.5 mm

■ **KPR-191** Package at 5 pieces

■ **KPR-191-1** Package at 1 piece



Light/Rain Sensor Adhesive Pad for VW Group until YOC 98
Dimensions: Ø 28 x 1.0 mm

■ **KPR-194** Package at 5 pieces

■ **KPR-194-1** Package at 1 piece

Detailed vehicle type allocation table on our website at www.proglass.de or upon request!



Rain Sensor Adhesive Pad for Alfa, Jaguar, Porsche, Seat, Skoda, Toyota, VW
Dimensions: Ø 28 x 1.5 mm

- **KPR-195** Package at 5 pieces
- **KPR-195-1** Package at 1 piece



Rain Sensor Adhesive Pad for Chrysler, Daewoo, Honda, Kia, Nissan
Dimensions: 60 x 35 x 1.0 mm

- **KPR-196** Package at 5 pieces
- **KPR-196-1** Package at 1 piece



Rain Sensor Adhesive Pad for Alfa, BMW, Mercedes, Rover
Dimensions: 56 x 31 x 1.5 mm

- **KPR-199** Package at 5 pieces
- **KPR-199-1** Package at 1 piece



■ **KPA-250** **Applicator for Adhesive Pads and Acrylic Tapes**
Spray bottle at 250 ml

The applicator helps you to avoid air locks when sticking on sensor pads and adhesive tapes with acrylic adhesive (all items of our range with an item number starting with KPR-, KPL-, TAC-, TAB-).

The liquid applicator enables you to correct the position after sticking the sensor to the glass.

Detailed vehicle type allocation table on our website at www.proglass.de or upon request!



Adhesive Pad for Toll Collect Device
Dimensions: 52 x 37 x 0.8 mm

- **KPM-3752** Package at 5 pieces
- **KPM-3752-1** Package at 1 piece



Toll Collect DSRC Adhesive Pad
Dimensions: 64 x 44 mm

- **KPM-4464** Package at 5 pieces
- **KPM-4464-1** Package at 1 piece



Adhesive Pad for camera holder
Dimensions: 62 x 60 x 1.5 mm

- **KPM-6260** Package at 5 pieces
- **KPM-6260-1** Package at 1 piece



Adhesive Pad for camera holder
for lane assistant MB Actros

- **KPM-7474** Package at 5 pieces
- **KPM-7474-1** Package at 1 piece

To take off an optical sensor from a windscreen can be very difficult if the glued surface is extensive. Using too much power with a plastic wedge will easily break the optical unit. Therefore we recommend to use these special tools which clasp the optical sensor and enable to turn it off sideways.

TIP:

Warming up the windscreen from the outside (with a hot air gun) weakens the bonding and facilitates loosening the optical unit from the glass.



■ **SLW-193**

**Light/Rain Sensor Removal Tool
for optical units SOL-193x (all versions)**



■ **SLW-197**

**Light/Rain Sensor Removal Tool
for optical units SOL-197x (all versions)**



■ **SLW-199**

**Light/Rain Sensor Removal Tool
for optical unit SOR-199**



■ **WSR-150-N**

**Professional Windscreen Repair Kit
for stationery use**

■ **WSR-150-A**

**Professional Windscreen Repair Kit
for mobile use**



This professional windscreen repair kit is a result of our longtime experience in windscreen repair. It contains all components necessary for professional work and for optimum results. Almost no other system is equipped so completely as this kit. By that the price is remarkably favorable - do not hesitate to compare the contents list to systems from other suppliers.

The stationary kit includes a 230 V mains operated UV lamp. The mobile kit includes a 12 V operated UV lamp that connects with a cigarette lighter or vehicle power outlet.

Besides the large range of tool components, the kit also includes all consumables for at least 20 repairs. Each of these consumables can be bought later separately and at fair prices.

Features:

- high-quality and long-life components
- very complete professional case for all kinds of stonechips
- All components and consumables also available separately
- video manual and detailed instruction manual included

*quicklink to the
product video*





Kit contains:

- ProGlass repair fixture ([WSR-150-1N](#))
- resin chamber small, 3/16" ([WSR-150-2N](#))
- connection hose ([WSR-150-3](#))
- pressure/vacuum pump ([WSR-150-5](#))
- inspection mirror with suction cup ([MC-500](#))
- UV lamp 8W, 230V/50Hz ([UVN-300](#))
or UV lamp 8W, 12V ([UVA-300](#))
- cordless mini drill 9.6V ([AM-961-X](#))
- carbide probe ([CP-5040](#))
- cracker ([CRK-109](#))
- Penlight ([PF-216](#)) incl. batteries
- lighter, childproof ([FZ-8326](#))
- 1 repair resin, 15 ml ([VR-515](#))
- 1 pit filler resin, 15 ml ([VR-415](#))
- 1 glass repair polish, 25 ml ([SP-025](#))
- 1 dome magnifier 15x ([SL-015](#))
- accessory box with following contents:
 - 3 syringes ([1942](#))
 - 3 cannulas ([2496](#))
 - 20 mylar squares ([MR-300](#))
 - 10 scraper blades ([RK-10](#))
 - 5 injector seals 3/16" ([DR-475](#))
 - 1 carbide drill bit, tapered 0.8 mm ([KMB-085-1](#))
 - 1 carbide drill bit, tapered 1.0 mm ([KMB-105-1](#))
 - 1 carbide drill bit, round 0.8 mm ([KMK-110-1](#))
 - 1 carbide drill bit, round 1.0 mm ([KMK-120-1](#))
 - 1 grinding and polishing kit, in 12 parts ([SPS-012](#))
 - 1 bull's eye maker ([SSK-790](#))
- instructional video (CD-ROM)
- detailed instruction manual
- advertising poster (actually only for A, CH, D)
- rugged, foam lined plastic case
500 x 420 x 125 mm



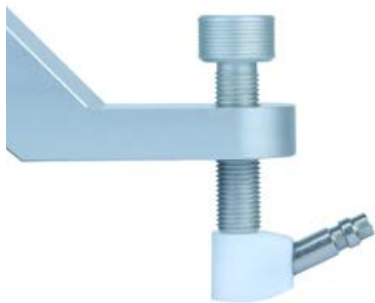
WSR-150-P



■ **WSR-150-1N ProGlass Repair Fixture
(without resin chamber!)**

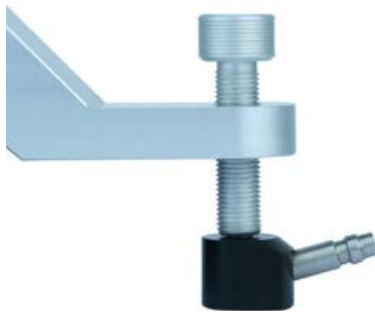
The 125 mm big sucker of the fixture is mounted to the glass securely by pushing the pump plunger only a few times (optical control through red safety ring on the pump). The solid light alloy arm is movable and swivelling so that the resin chamber can be adjusted over the impact point easily and very precisely.

By turning the screw downward the resin chamber will become vacuum-sealed to the glass. Thanks to the spherical seat the resin chamber will align itself at right angle over the impact point. This guarantees that the seal does not impose more pressure upon the glass than necessary.



■ **WSR-150-2N ProGlass Resin Chamber, 3/16" for all standard repairs**

The seal of this chamber has an inside Ø of 4.75 mm. It is dedicated to perform all standard repairs with an impact no bigger than 5 mm. The chamber can be used for repairs on all flat and vertical glasses.



■ **WSR-150-6N ProGlass Resin Chamber, 3/8" for the repair of large damages**

The seal of this chamber has an inside Ø of 9.5 mm. It is suitable for large stone chips as could be found at commercial vehicles or busses. Due to its extra large size, it is also applicable for two impact points close to each other. The chamber can be used for repairs on all flat and vertical glasses.



■ **WSR-150-3**

Connection Hose for WSR-150

The hose connects the pressure/vacuum pump with our resin chambers. It is also compatible to other repair systems on the market, e. g. AEGIS or Würth.



■ **WSR-150-5**

Pressure/Vacuum Pump for WSR-150

Pressure/vacuum pump for our ProGlass Professional Windscreen Repair Kit WSR-150. Also compatible to other repair systems on the market, e. g. AEGIS or Würth.



■ **SHU-3237**

Suction Holder, universal, Ø 32-37 mm



Use the suction holder to fix the pressure/vacuum pump WSR-150-5 to a windscreen or to other smooth surfaces. This is for example very helpful when repairing windscreens on commercial vehicles.



■ **RF-050**

**Refill Kit for WSR-150
sufficient for at least 50 repairs**

Kit contains:

- 2 repair resins (item no. VR-515)
- 1 pit filler resin (item no. VR-415)
- 2 injector seals (like item no. DR-475)
- 10 scraper blades (item no. RK-10)
- 50 mylar squares (like item no. MR-300)
- 4 syringes (item no. 1942)
- 2 cannulas (item no. 2496)



■ **RS-2030**

Resin Dispensing Kit

Kit contains 6 syringes item 1942 and 3 cannulas item 2496 for the laminated glass repair.



■ **1942**

Syringe (polypropylene)

Reuseable syringe made of polypropylene for exact dosage of resin.



■ **2496**

Cannula 2.0 x 70 mm

Reuseable cannula made of stainless steel for exact dosage of resin in connection with the syringe 1942.



■ **FZ-8326**

Lighter „ProGlass“, blue

Refillable pocket lighter.



■ VR-515

Repair Resin ExtraPlus, extra thin, dropper bottle at 15 ml

Extra thin repair resin, excellent crack filler.

viscosity at 25°C: 10-20 mPa*s
shore hardness: D75



■ VR-415

Pit Filler Resin Extra, thin, dropper bottle at 15 ml

More fluid pit filler, for a hard and shiny finish.

viscosity at 25°C: 90-100 mPa*s
shore hardness: D80



■ DR-475

Injector seals 3/16" for repair system WSR-150 package at 5 pieces

Injector seal (small) for the resin chamber WSR-150-2N.

inside-Ø approx. 4.75 mm, outside-Ø ca. 9.75 mm



■ DR-950

Injector seals 3/8" for repair system WSR-150 package at 5 pieces

Injector seal (large) for the resin chamber WSR-150-6N.

inside-Ø ca. 9.5 mm, outside-Ø ca. 16.0 mm

■ **WSR-100**

**ProGlass Windscreen Repair Kit
for stationery use**

■ **WSR-100-A**

**ProGlass Windscreen Repair Kit
for mobile use**

Simple and economic repair system for the professional windscreen repair. The system WSR-100 is distinguished for businesses with a lower repair volume or as a second system.

In this system the pressure and vacuum needed to perform a repair is produced by screwing the plastic injector's piston in and out. The simple construction of the whole system ensures a safe and easy operation. Thanks to the high-quality and extremely thin ProGlass repair resin even finest cracks can be repaired. The system can also be used to repair damages with a finely smashed or very dirty point of impact because an electric mini drill is also included.

Kit contains:

- ProGlass repair fixture ([WSR-100-1](#))
- inspection mirror with sucker ([MC-500](#))
- UV lamp 6W, 230V/50Hz ([UVN-200](#)) or 12V ([UVA-200](#))
- mini drill 12V, with mains adaptor 230V ([BM-120](#)) or cigarette lighter plug 12V ([BM-120-A](#))
- carbide probe ([CP-5040](#))
- cracker ([CRK-109](#))
- Penlight ([PF-216](#)), batteries included
- lighter, childproof ([FZ-8326](#))
- suction cup lubricant, 60 ml ([VS-060](#))
- glass repair polish, 25 ml ([SP-025](#))
- accessory box with following contents:
 - 2 plastic injectors ([INJ-M14-F](#))
 - 1 repair resin, 5 ml ([VR-505](#))
 - 1 pit filler resin, 5 ml ([VR-405](#))
 - 20 mylar squares ([MR-300](#))
 - 10 scraper blades ([RK-10](#))
 - 1 carbide drill bit, tapered 1.0 mm ([KMB-105-1](#))
 - 1 carbide drill bit, round 1.0 mm ([KMK-120-1](#))
- detailed instruction manual
- rugged plastic case 450 x 360 x 106 mm with rigid foam lining





■ WSR-100-1

Repair Fixture for WSR-100



Injector holder made of aluminium with two PVC suction cups (Ø 37 mm). For the simple and safe positioning of the injector over the point of impact. Comes with one injector INJ-M14-F.



■ INJ-M14-F

Injector for Windscreen Repair

Well-priced injector for the ProGlass WSR-100 windscreen repair kit. Compatible with many repair systems on the market like for example Duobond, PMA or Talon (metric fine thread: M12x1,25). Injector seals are not available separately!



■ VR-505

Repair Resin ExtraPlus, extra thin, dropper bottle at 5 ml

Extra thin repair resin, excellent crack filler.

viscosity at 25°C: 10-20 mPa*s
shore hardness: D75



■ VR-405

Pit Filler Resin Extra, thin, dropper bottle at 5 ml

More fluid pit filler, for a hard and shiny finish.

viscosity at 25°C: 90-100 mPa*s
shore hardness: D80

Windscreen Repair Resins

In principle our resins for laminated glass repair can be used with all repairs systems available on the market. The herein mentioned data for viscosity and shore hardness shall help you to choose the right product for your application (by the way, at 20°C water has a viscosity of approx. 1.0 mPa*s, motor oil at 25°C of approx. 100 mPa*s and honey - depending on the type - of approx. 4,000 - 10,000 mPa*s). As the resins have a limited shelf life they should be bought in quantities as needed

and always be stored in a dark and cool place. If stored properly our resins have a shelf life of at least 9 months from the production date, from the delivery from our stock of at least 6 months. To ease control you will find the date of production on each bottle. This ensures the use of only fresh products and gives you more application safety. For further information please also refer to the technical data sheet.



■ VR-505AF

Repair Resin ExtraPlus AF, extra thin, acid-free formulation, dropper bottle at 5 ml

■ VR-515AF

Repair Resin ExtraPlus AF, extra thin, acid-free formulation, dropper bottle at 15 ml

This repair resin is absolutely acid-free. Thereby it can also be used by persons who are sensitive to the acrylic acid contained in conventional resins. Commonly occurred discomfort like irritation of skin, eyes or the respiratory system, headache or even light sickness do no longer occur when using this acid-free resin.

Extra thin repair resin, excellent crack filler.

viscosity at 25°C: 10-20 mPa*s
shore hardness: D75



■ VR-405AF

Pit Filler Resin Extra AF, thin, acid-free formulation, dropper bottle at 5 ml

■ VR-415AF

Pit Filler Resin Extra AF, thin, acid-free formulation, dropper bottle at 15 ml

This pit filler resin is absolutely acid-free. Thereby it can also be used by persons who are sensitive to the acrylic acid contained in conventional resins. Commonly occurred discomfort like irritation of skin, eyes or the respiratory system, headache or even light sickness do no longer occur when using this acid-free resin.

More fluid pit filler, for a hard and shiny finish.

viscosity at 25°C: 90-100 mPa*s
shore hardness: D80



■ **VR-505**

Repair Resin ExtraPlus, extra thin, dropper bottle at 5 ml

■ **VR-515**

Repair Resin ExtraPlus, extra thin, dropper bottle at 15 ml

Extra thin repair resin, excellent crack filler.

viscosity at 25°C: 10-20 mPa*s
shore hardness: D75

■ **VR-305**

Repair Resin Extra, thin, dropper bottle at 5 ml

■ **VR-315**

Repair Resin Extra, thin, dropper bottle at 15 ml

Thin repair resin for all type of stone chips.

viscosity at 25°C: 20-30 mPa*s
shore hardness: D76

■ **VR-105**

Repair Resin Standard, dropper bottle at 5 ml

■ **VR-115**

Repair Resin Standard, dropper bottle at 15 ml

Standard repair resin for repairing bull's eyes.

viscosity at 25°C: 40-45 mPa*s
shore hardness: D75



■ **VR-405**

Pit Filler Resin Extra, thin, dropper bottle at 5 ml

■ **VR-415**

Pit Filler Resin Extra, thin, dropper bottle at 15 ml

More fluid pit filler, for a hard and shiny finish.

viscosity at 25°C: 90-100 mPa*s
shore hardness: D80

■ **VR-205**

Pit Filler Resin Standard, dropper bottle at 5 ml

■ **VR-215**

Pit Filler Resin Standard, dropper bottle at 15 ml

Highly viscous pit filler for a hard finish.

viscosity at 25°C: 300 mPa*s
shore hardness: D78

■ **UV-528**



Glass Star Windscreen Repair Kit

This system does not need a repair fixture. Instead it uses a pedestal that is bonded directly over the point of impact and that works as the resin chamber. Simple repair system for occasional use (e. g. for dealers of used cars).

Kit contains:

- 2 injectors (INJ-581)
- 2 connection hoses (H-538)
- 1 UV battery lamp (batteries included)
- 2 flow regulators
- 1 cure guard
- 1 carbide probe
- 18 pedestals (like P-536)
- 18 adhesive pads (like AS-537)
- 1 repair resin, extra thin (VR-505)
- 1 pit filler resin, thin (VR-405)
- 1 scraper with blade
- 20 mylar squares
- 1 buffing compound
- 1 instruction manual

■ **P-536**



**Pedestal for UV-528
package at 25 pieces**

The pedestals are self-adhesive and can be used several times.

Only the adhesive pad has to be exchanged after each use.

■ **AS-537**



**Adhesive Pads for UV-528
package at 25 pieces**

Use these adhesive pads to renew the pedestals P-536 and as an additional adjustment for repairs on strongly curved glasses.



■ MR-300

Mylar Squares, package at 20 pieces

Squares (approx. 25 x 25 mm) of transparent mylar foil to cover the repair area during UV irradiation.



■ RK-10

Scraper Blades 40 mm wide, package at 10 pieces

Top quality industrial blades with a thickness of 0.009 (=0.23 mm) and a solid metal back. Each blade has a single paper wrapping in the bag to prevent you from injuries.

■ RK-10HD

Heavy Duty Scraper Blades 40 mm wide, package at 10 pieces

Heavy Duty industrial blades with a thickness of 0.012 (=0.30 mm) and a solid metal back. Each blade has a single paper wrapping in the bag to prevent you from injuries.



■ SP-025

Glass Repair Polish, bottle at 25 ml

For polishing the point of impact after a repair. Apply polish on repaired area and polish by hand with a wipe or with a felt polishing wheel on the mini drill until the surface is smooth and shiny.



■ FPS-005

Polishing Kit in 5 parts for mini drills

The small felt polishing wheels are ideal for polishing the pit filler surface after a laminated glass repair.

Kit contains:

- 5 felt polishing wheels Ø 20 x 7 mm
- 1 wheel post

■ DRB-140

Aluminium Bridge



With the aluminium bridge a constantly and controlled counter pressure from the inside of the windscreen can be generated. Thereby the repair result e.g. of longer cracks, can be influenced very positively. A highly expedient add-on for each windscreen repair kit. The handy bridge is also suitable for fixing freshly bonded mirror plates or sensor units.

■ MC-500

Inspection Mirror with suction cup



The mirror has a diameter of 50 mm. With the small PVC suction cup it can be fixed on any plain surface. Suction cup and mirror are connected with a ball joint. Sticked to the windscreen from inside it is the perfect helper for windscreen repairs.

■ CP-5040

Carbide Probe



Probe with carbide tip to clean the impact point and to remove loose glass particles before repairing a stone chip.

■ CRK-109

Cracker



This small cracker is appropriate to easen reparings of stone chips by widening them slightly. Therefore the resin can enter better, respectively the air can escape easier. Handling should be trained on an old windscreen first.



■ SSK-790

Bull's Eye Maker

The bull's eye maker is used to create stone chips on an old windscreen. By that, repairing technique can be trained in a test environment instead on your clients windscreen!



■ WZA-4022

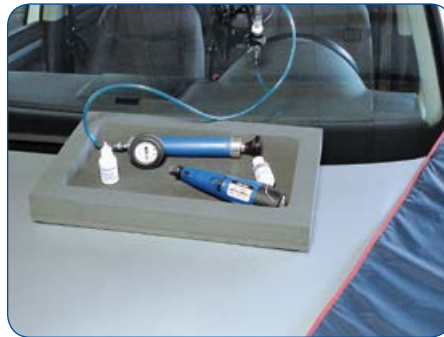
Tool Tray made of rigid foam

Everything needed for a windscreen repair will fit into this tool tray. This way you will always have any small parts ready to hand and safely stored at your workplace.

The rigid foam offers a soft surface that will not scratch the paint and is non-skid so that the tray will safely stay on the hood.

outside dimensions (approx.): 47 x 30 x 5.5 cm

storage space (approx.): 40 x 22 x 4.0 cm



■ WSR-150-P

Poster „Steinschlagschaden?“ in size DIN A1 (59.4 x 84.1 cm)

Poster DIN A1 size that shows some typical stone chips. Placed in your sales room, it will draw your clients attention on it and makes an easy start for a sales conversation about stone chip repairing.

Sorry - actually only available in German language!



■ **SPF-050-D**

Windscreen Band-Aid, German package at 50 pieces

■ **SPF-050-E**

Windscreen Band-Aid, English package at 50 pieces

■ **SPF-050-F**

Windscreen Band-Aid, French package at 50 pieces



The windscreen band-aid is a cost-efficient give away. Many bigger companies in our business have been using it successfully for quite a long time.

Make sure to get your part of the windscreen repair business and hand out the windscreen band-aid to as many as possible of your clients.



The front side is neutral and refers to the specialist mentioned at the back side. At the back side you can attach a printed address label or put on your company stamp.

■ **SPF-050-IND**

Windscreen Band-Aid, designed individually

NEW: Starting from 500 pieces we print your individually designed windscreen band-aid!

Benefit from this handy promotional item as your business card and the perfect advertising medium for your auto glass business!

The front side gives some general information about windscreen repair. The peelable band-aid (red ring) will be printed with your company name and phone number. You want to provide ready-to-print files from your graphics designer? In that case you can also design the front side individually. Please ask for our layout guidelines.

The reverse side can be designed completely to your wishes. If you want to include a company logo or if you already have an artwork (e.g. your business card), please send us these files in a common file format, best by e-mail.

To offer you the best prices, this product is produced in combination with orders from other customers. This means that we collect the orders and print them together periodically. The fix dates can be found on our website (at the item SPF-050-IND) or ask our sales staff.





■ **SML-040**

Pocket Microscope 40x with LED lamp

Pocket microscope made of plastic with LED lamp and fortyfold magnification. Auxiliary tool for the repair and examination of scratches and stone damages on wind-screens. For the LED lamp two batteries size AA are needed (not included).



■ **BA-MIGNON** Alkaline Battery size AA



■ **SMK-025**

Pen Microscope 25x

Pocket microscope made of aluminium and plastic with twentyfivefold magnification. Auxiliary tool for the repair and examination of scratches and stone damages on windscreens.



■ **SL-015**

Dome Magnifier 15x

Simple dome magnifier made of plastic with a transparent base. Nice tool for the repair and examination of scratches and stone damages on windscreens (fifteenfold magnification).



■ **AM-961-X**



Cordless Mini Drill 9.6 V with charging unit, collet kit and polishing kit

- precision tool for drilling stone chips
- also suitable for grinding and polishing
- handy and powerful
- continuously adjustable from 8,000 - 20,000 r.p.m.
- 4 collets for the use of different tools
- exchangeable 9.6 V Ni-MH battery pack
- tool weight incl. battery: 0.300 kg
- charger with interchangeable plugs (EU, GB, US, AUS)

■ **AM-961-1**



Collet Kit, in 4 parts for AM-961-X

Suitable for all mini drills with a 5.0 mm chuck.

The collets suit for tools with a shaft diameter of 1.6 mm, 2.4 mm, 2.8 mm und 3.2 mm.

■ **AM-961-LGX**



Charger for AM-961-X

technical data:

- input: 110-230V/50Hz AC
- output: 12V/500mA DC
- with interchangeable plugs (EU, GB, USA, AUS)

■ **AM-961-BM**



Battery Pack for AM-961-X

technical data:

- battery type: Ni-MH
- voltage: 9.6 V
- capacity: 1.2 Ah

■ **BM-120**



**Mini Drill 12 V with EURO adaptor (230 V / 50 Hz)
incl. collet kit and a grinding and polishing kit in 12 parts**

- applicable for drilling, grinding and polishing
- handy tool with 10,000 r.p.m.
- delivered with 5 different collets (diameter from 0.8 - 3.2 mm)
- tool weight: 0.110 kg

■ **BM-120-A**



**Mini Drill 12 V with cigarette lighter plug
incl. collet kit and a grinding and polishing kit in 12 parts**

- applicable for drilling, grinding and polishing
- handy tool with 10,000 r.p.m.
- delivered with 5 different collets (diameter from 0.8 - 3.2 mm)
- connects with vehicle's power outlet/cigarette lighter (voltage rating: 12V DC)
- tool weight: 0.110 kg

■ **BM-120-1**



Collet Kit, in 4 parts for BM-120

Suitable for all mini drills with a 5.5 mm chuck.

The collets suit for tools with a shaft diameter of 1.6 mm, 2.4 mm, 3.0 mm und 3.2 mm.

■ **SPS-012**



**Grinding and Polishing Kit in 12 parts
for mini drills**

A kit for the mini drill that complies with the requirements of car glass glaziers. Grinding adaptors to remove little corrosion spots and polishing adaptors to polish stone chip repairings.

Scope of delivery as shown.

■ **KMB-085**

**Carbide Drill Bits, tapered Ø 0.8 mm
package at 10 pieces**

■ **KMB-085-1**

**Carbide Drill Bits, tapered Ø 0.8 mm
single**

technical data:

- shaft-Ø: 1.6 mm
- length of shaft: 12.0 mm
- total length: 19.0 mm



■ **KMB-105**

**Carbide Drill Bits, tapered Ø 1.0 mm
package at 10 pieces**

■ **KMB-105-1**

**Carbide Drill Bits, tapered Ø 1.0 mm
single**

technical data:

- shaft-Ø: 1.6 mm
- length of shaft: 12.0 mm
- total length: 19.0 mm



■ **KMC-085**

**Carbide Drill Bits, tapered Ø 0.8 mm,
rounded tip, package of 10 pieces**

■ **KMC-085-1**

**Carbide Drill Bits, tapered Ø 0.8 mm,
rounded tip, single**

technical data:

- shaft-Ø: 1.6 mm
- length of shaft: 12.0 mm
- total length: 19.0 mm



■ **KMC-105**

**Carbide Drill Bits, tapered Ø 1.0 mm,
rounded tip, package of 10 pieces**

■ **KMC-105-1**

**Carbide Drill Bits, tapered Ø 1.0 mm,
rounded tip, single**

technical data:

- shaft-Ø: 1.6 mm
- length of shaft: 12.0 mm
- total length: 19.0 mm





■ **KMK-110**

**Carbide Drill Bits, round Ø 0.8 mm
package at 10 pieces**

■ **KMK-110-1**

**Carbide Drill Bits, round Ø 0.8 mm
single**

technical data:

- shaft-Ø: 1.6 mm
- length of shaft: 12.0 mm
- total length: 19.0 mm



■ **KMK-120**

**Carbide Drill Bits, round Ø 1.0 mm
package at 10 pieces**

■ **KMK-120-1**

**Carbide Drill Bits, round Ø 1.0 mm
single**

technical data:

- shaft-Ø: 1.6 mm
- length of shaft: 12.0 mm
- total length: 19.0 mm





■ **UVB-150**

UV Battery Lamp 4 W

Simple UV lamp with PVC suction cup to fix on the glass.
Requires 4 batteries size AA (not included).



■ **UVB-150T**

UV Battery Lamp 4 W with Torch

Simple UV lamp with PVC suction cup to fix on the glass and integrated torch. Requires 4 batteries size AA (not included).



■ **LR-150**

**Replacement Tube 4W BLB
for UVB-150 and UVB-150T**

dimensions:

- length: 133 mm
- diameter: 16 mm



■ **LRW-150**

**Replacement Tube 4W BL
for UVB-150 / UVB-150T**

dimensions:

- length: 133 mm
- diameter: 16 mm



■ **BA-MIGNON**

Alkaline Battery size AA

■ **UVN-200**



**UV Lamp 6 W (230V / 50 Hz)
with Euro plug and 5 m connection cable**

- two small PVC suction cups for safe fixation on the glass
- 6 W BL tube (proprietary brand) for short curing times*

■ **UVA-200**



**UV Lamp 6 W (12V) with plug
for power outlet/cigarette lighter**

- two small PVC suction cups for safe fixation on the glass
- 6 W BL tube (proprietary brand) for short curing times*

NOTE: Not suitable for 24V vehicle voltage. Damages because of wrong vehicle voltage are not covered by warranty!

■ **LR-200**



**Replacement Tube 6W BL (proprietary brand)
for UVA-200 / UVN-200**

dimensions:

- length: 212 mm
- diameter: 16 mm

*Besides the UV radiation the real curing time also depends on the used resin. With this lamp all our resins cure in only two minutes.

■ **UVN-300**



**UV Lamp 8 W (230V / 50 Hz)
with Euro plug and 5 m connection cable**

- two small PVC suction cups for safe fixation on the glass
- 8 W BL tube (proprietary brand) for short curing times*

■ **UVA-300**



**UV Lamp 8 W (12V) with plug
for power outlet/cigarette lighter**

- two small PVC suction cups for safe fixation on the glass
- 8 W BL tube (proprietary brand) for short curing times*

NOTE: Not suitable for 24V vehicle voltage. Damages because of wrong vehicle voltage are not covered by warranty!

■ **UVA-324**



**UV Lamp 8 W (24V) with plug
for power outlet/cigarette lighter**

- two small PVC suction cups for safe fixation on the glass
- 8 W BL tube (proprietary brand) for short curing times*

This version is build for 24V vehicle voltage (commercial vehicles). Please be sure to use the correct voltage - damages because of wrong vehicle voltage are not covered by warranty!



■ **LR-300**



**Replacement Tube 8W BL (proprietary brand)
for UVA-300 / UVN-300**

dimensions:

- length: 288 mm
- diameter: 16 mm

*Besides the UV radiation the real curing time also depends on the used resin. With this lamp all our resins cure in only two minutes.

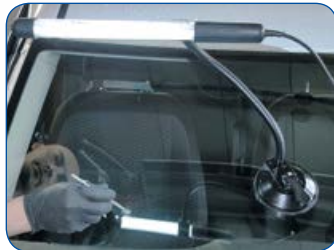
■ **SL-230V**



**Work Light 8W (230 V / 50 Hz)
with Euro plug and 5 m connection cable**

Robust work light with electronic ballast (with bright white fluorescent tube - no UV lamp!). With a rotary metal hook.

■ **FSL-450**



**Flexible Suction Mount with Work Light
450 mm long**

Kit contains:

- 1 flexible suction mount (item no. FSH-450)
- 1 work light 8W (item no. SL-230V)

■ **FSH-450**



**Flexible Suction Mount
450 mm long**

The suction mount enables you to easily and safely fix a work light on almost every flat surface on a vehicle. Thanks to the flexible arm the lamp can be adjusted easily. With this device you can for example perform windscreen repairs even in poorly lit places.

technical data:

- suction pad-Ø 120 mm
- flexible arm length: 38 cm
- suitable for lamp-Ø of approx. 25-30 mm

■ **SRS-502-ECO Scratch-A-Way, electric version
scratch removal system**



The Scratch-A-Way machines are especially good for working on a small section of a glass. Thanks to the splash guard you will not mess up the surrounding area of your workplace.

TIP:

Using it together with our glass polish GPF-250 will let you remove scratches even faster and more effective.

Kit contains:

- 1 polishing machine, 230 V / 150 W, 5,000 - 9,500 rpm
- 3 fine polishing discs
- 1 marker
- 1 loupe, 30-fold magnified
- 1 leather wipe
- 1 instruction manual (multilingual)
- 1 plastic case with foam lining

■ **SRS-400-ECO Scratch-A-Way, pneumatic version
scratch removal system**



Kit contains:

- 1 polishing machine, air consumption 260 l/min., 11,000 rpm (operating pressure 6,0 bar)
- 1 air tool oil
- 5 fine polishing discs
- other contents like item no. SRS-502-ECO



■ **SRS-93054**

Fine Polishing Disc Ø 50 mm, with velcro back single

■ **SRS-93066**

Fine Polishing Disc Ø 50 mm, with velcro back package at 20 pieces

The fine polishing disc is good for polishing fine scratches on glass in one operation.



■ **SRS-93061**

Metal Disc Ø 50 mm, with velcro back, single



The metal disc is good to remove deep scratches. To combine with the polish SRS-93110. After this step the glass has to be polished by using a fine polishing disc.



■ **SRS-93110**

Scratch-A-Way Polish red, tin at 100 ml



The Scratch-A-Way polish paste is used together with the metal disc SRS-93061 to remove deep scratches.

■ **PE12-175SET Metabo Angle Polisher Set**
1200 W, for Backing Pad up to max. 175 mm



- powerful polisher with two-level reduced gear
- Vario-Tacho-Constamatic (VTC) full wave electronics with thumb-wheel: for working with customised speeds for the materials used that remain almost constant under load
- ergonomic front cap for safe, low-fatigue guiding
- overload protection: protects the motor from overheating
- electronic soft start for smooth startup
- weight (without power cable): 2.4 kg

■ **PSG-160 Metabo Cling-fit Polishing Sponge, coarse,**
Ø 160 mm x 25 mm (yellow)



The coarse sponge is more effective but also heats up the glass surface faster. Using it with our glass polish, please take into account that a new sponge absorbs a lot of polish. Only after reaching a certain saturation it will be effective.

■ **PSF-160 Metabo Cling-fit Polishing Sponge, fine,**
Ø 160 mm x 25 mm (white)



The fine polishing sponge (white) is very soft and therefore adapts perfectly to arched glass with only light pressure. Using it with our glass polish, please take into account that a new sponge absorbs a lot of polish. Only after reaching a certain saturation it will be effective.

■ **PFW-155 Metabo Cling-fit Polishing Felt, soft,**
Ø 155 mm x 5 mm (white)



The polishing felt is especially good for faster removal of deeper scratches in a small area. Using it with our glass polish the felt will be saturated much faster than a sponge.



GPF-250

■ **GPF-250**

ProGlass Glass Polish
bottle at 250 ml, liquid polishing compound

■ **GP-1000**

ProGlass Glass Polish
box at 1 kg polishing powder, to mix with water
(to make approx. 1,450 ml liquid polishing compound)

ProGlass glass polish, liquid or powder, is a high-quality grinding and polishing product, for surface finishing of glasses. The ingredients are the same used successfully in the glass industry to remove scratches and to polish glass surfaces.

For scratch removal we recommend to use a polishing machine or an orbital grinder.

Fine scratches, transport defects, traces from the suction cup lifter, coatings and resistant dirt can also be removed by hand. For that please use a clean cotton cloth, a lint-free tissue, a cloth to polish varnish or anything similar.

Features:

- reliable deep cleaner for the vehicle replacement glazing (**removes all oil, grease and silicone residues**)
- perfect pre-cleaner for thorough cleaning before applying a water repellent or to fully remove any previously applied coatings
- high-quality polishing agent to remove scratches on the glass surface (e.g. caused by windscreen wipers, ice scrapers, cleaning sponges or similar things)
- simple and safe application
- inoffensive to varnishes, plastics and rubber parts
- for hand and machine polishing



GP-1000

■ **XP-050**

XERAPOL Scratch Remover
tube at 50 g, for acrylic and plexiglass

XERAPOL is a low cost solution for scratched backlights, caravan windows, boat windows, motorcycle windscreens and helmet visors. Easy application by hand or with the machine - use the soft sponge to avoid holograms. Not applicable on polycarbonate!



■ SAS-340



Sehen Ihre Scheinwerfer so aus?



- schlechte Sicht bei Nacht
- erhöhtes Sicherheitsrisiko
- unansehnliche Optik
- kein TÜV!!!

Wir bieten eine günstige Lösung!

- wieder optimale Sicht
- mehr Fahrsicherheit
- verbesserte Optik
- kostengünstige & schnelle Methode



Mit dem proGlass Scheinwerfer-Aufbereitungssystem werden die durch UV-Strahlung und Umwelteinflüsse vergilbten und ermatteten Scheinwerfergläser aus Kunststoff wieder wie neu!

- geeignet für alle Kunststoffgläser (konventionelle Streuscheibe und Klarglas-Design)
- erspart Ihnen den mehrere 100 € teuren Austausch der kompletten Scheinwerfer
- aufbereitete Scheinwerfer sind für mindestens 2 Jahre gegen die erneute Verwitterung der Kunststoffgläser geschützt

Headlight Restoration Kit Full Set in plastic case

Plastic headlight lenses (polycarbonate) deteriorate with age and become yellow opaque. The brightness of the light is reduced and the risk of accidents during night driving is increased.

With this professional system for the restoration of weathered plastic headlight lenses, you can offer your customers an economical and ecological alternative rather than replace the whole headlight.

The system comes in a foam-lined plastic case, so that all components are properly maintained.

In addition to the parts and materials in the system, you only need a cordless drill, tape (to protect the adjacent parts of the vehicle), a spray bottle with clean water and cleaning paper.

Features:

- suitable for all plastic headlight lenses (standard design and transparent)
- low cost of consumables for each headlight
- needed work-time for each headlight only about 30 minutes
- saves your customers the expensive replacement of the whole headlight
- lights treated with this system are protected against weathering of the plastic lenses for at least 2 years *
- profitable additional business for workshops, car glaziers, vehicle conditioners, dealers of used cars, etc.

* determined at specific long-term tests with different vehicles

Kit contains:

SAS-340	description	item no.
1	disc sanding pad 76.2 mm with adaptor for cordless drill	SAT-762
1	interface pad soft, 76 mm	STS-076
1	polishing pad abrasive, 80 mm	SSG-080
1	polishing pad fine, 76 mm	SSF-076
20	sanding disc grit 500	SLS-500 (pkg at 10)
20	sanding disc grit 800	SLS-800 (pkg at 10)
10	sanding disc grit 1500	SLS-1500 (pkg at 5)
6	sanding disc grit 3000	SLS-3000 (pkg at 5)
1	Polish, 235 ml	SAP-235
1	Finish, 235 ml	SAF-235
1	instruction manual, english	---
100	flyer DIN long (German)	SAS-340-F (pkg.unit=100)
1	showroom poster DIN A1 (German)	SAS-340-P
1	foam lined plastic case, approx. 34 x 27.5 x 8.3 cm	---

■ SAS-340-B

Headlight Restoration Kit Starter Set without plastic case

The starter set has a reduced scope of delivery, but besides that it uses the same high-quality components than the full set SAS-340.



Kit contains:

SAS-340-B	description	item no.
1	disc sanding pad 76.2 mm with adaptor for cordless drill	SAT-762
1	interface pad soft, 76 mm	STS-076
1	polishing pad abrasive, 80 mm	SSG-080
1	polishing pad fine, 76 mm	SSF-076
10	sanding disc grit 500	SLS-500 (pkg at 10)
10	sanding disc grit 800	SLS-800 (pkg at 10)
5	sanding disc grit 1500	SLS-1500 (pkg at 5)
5	sanding disc grit 3000	SLS-3000 (pkg at 5)
1	Polish, 235 ml	SAP-235
1	Finish, 235 ml	SAF-235
1	instruction manual, english	---
100	flyer DIN long (German)	SAS-340-F (pkg.unit=100)

■ SXE-400

Metabo Disc Sander 220 Watt, Backing Pad Ø 80 mm

- For sanding inner and outer curves by means of small 80 mm packing pad and flexible intermediate disc
- Excellent suitability for sanding and polishing smaller surfaces
- Light and handy machine for convenient one-hand operation
- Vario (V)-electronics for working with customised speeds for the materials used
- Thumbwheel for preselection of speed
- Power Control System: No scratches while placing the running machine on the material
- Low housing shape for sanding at places difficult to reach
- Dust-proof ball bearing for long service life of the machine
- Extraction possibility by means of connecting an all-purpose vacuum cleaner

technical data:

- Diameter of backing pad: 80 mm
- Idle revolution: 5,000 - 10,000 /min
- Rated input power: 220 W
- Output power: 100 W
- Revolutions at rated load: 6,000 /min
- Swing diameter: 3 mm
- Weight (without power cable): 1.2 kg
- Cable length: 2.5 m





■ **STS-076**

Interface Pad soft, 76 mm

Soft interface pad as a compensating interface for the sanding discs SLS-500, SLS-800, SLS-1500 and SLS-3000. With hook and look fixture.



■ **SLS-500**

Sanding Disc Grit 800, Ø 75mm, package at 10 pieces

■ **SLS-800**

Sanding Disc Grit 500, Ø 75mm, package at 10 pieces

■ **SLS-1500**

Sanding Disc Grit 1500, Ø 75mm, package at 5 pieces

Sanding discs with hook and look fastening for headlight restoration.



■ **SLS-3000**

Sanding Disc Grit 3000, Ø 75mm, package at 5 pieces

Sanding discs with hook and look fastening for headlight restoration.





■ **SAP-235**

**Polish for the Headlight Restoration
bottle at 235 ml**

Specialized polishing compound for the headlight restoration. Does not contain siloxane!

No polish for car finishes - do not use on painted surfaces!



■ **SSG-080**

**Polishing Pad Abrasive (purple)
Ø 80 mm**

Hard polishing pad with dense structure, for hook and look fastening.



■ **SAF-235**

**Finish for the headlight restoration
bottle at 235 ml**

Specialized polishing compound for the headlight restoration. Contains siloxane.

No polish for car finishes - do not use on painted surfaces!



■ **SSF-076**

**Polishing Pad Fine (grey)
Ø 76 mm**

Soft polishing pad with fine structure, for hook and look fastening.



■ SAT-762

**Disc Sanding Pad 76.2 mm
with adaptor for cordless drill**

Disc sanding pad with hook and loop fixture for the headlight restoration system SAS-340 / SAS-340-B. With connection thread 5/16" x 24UNF and screwable adaptor for cordless drill.



■ SAS-340-F

**Flyer for Headlight Restoration
packing unit: 100 pieces**

The promotional flyer contains end-user information about the headlight restoration and shows a typical before-after situation. In this flyer it is explained in plain words why do headlights yellow over the years and what are the advantages of the restoration (flyer actually only available in German language).



■ SAS-340-P

**Poster „Do your headlights look like this?“
size DIN A1 (59.4 x 84.1 cm)**

Actually only available in German language.

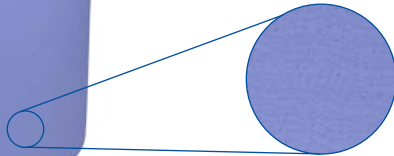




■ **PBM-336**

**Paper Towel, 3-ply paper, blue, industrial quality
approx. 1000 towels 36 x 36 cm**

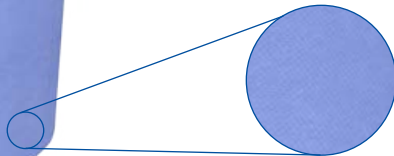
A top class three-ply paper for highest requirements. Specially soft and absorbent quality.



■ **PBX-538**

**Paper Towel, 2-ply paper, blue, industrial quality
approx. 500 towels 38 x 38 cm**

Two-ply paper towel with glued plies for higher volume and better suction.



■ **PWH-400**

Paper Roll Holder, wall-mounted

Wall mounted paper roll holder, made of blue lacquered steel pipe, galvanised steel sheet and plastic.



■ **PBS-400**

Paper Roll Holder, free-standing

Free-standing paper roll holder, made of blue lacquered steel pipe, galvanised steel sheet and plastic.



■ **SRK-950**

**ProGlass Glass Cleaner 1:40 Concentrate,
bottle at 950 ml**

■ **SRK-100**

**ProGlass Glass Cleaner 1:40 Concentrate,
bottle at 100 ml**

Mix the very rich concentrate with clear tap water, mixing ratio 1:40. You receive 39 liters (resp. about 4 liters for item SRK-100) of ready for use glass cleaner at an unbeatable price-performance ratio.

The cleaner is a very powerful contamination and fat solvent with low alcoholic content. Cleaning result: absolutely free of streaks. Best suitable also to clean dashboards, linings and other plastics. The small outlet of the bottle cap makes mixing very easy. Just fill a container with the required amount of water and add concentrate.



■ **SRS-500**

**ProGlass Active Glass Cleaner
500 ml aerosol can**

Features:

- firmly active foam with excellent stain removing power
- dissolves and removes effortlessly all kind of dirt like insects, dust from the road, nicotine film, oil and grease from auto glasses, mirrors and painted surfaces
- also suitable for cleaning painted surfaces as well as rubber and plastic parts on vehicles
- high active ingredient, therefore more profitable than many other products on the market
- sprayhead system with narrow spray angle for easy reach into edges and corners
- silicone-free and gentle

Note:

Do not spray on hot surfaces. Not suitable for polycarbonate glass.

only available in packing units of 12 pieces.



■ **MFT-3530**

ProGlass Microfibre Cloth
colour: orange, 35 x 30 cm

Our microfibre cloth is perfect for final cleaning of car windows. The fine microfibre absorbs dust and fat contamination particularly well. With its chunky, looped knitting style it is at the same time most suitable for structured surfaces (e.g. dashboards and linings). Washable up to 90°.



■ **SFL-1000**

Spray Bottle, industrial quality
capacity 1.0 litre

Blue, transparent plastic bottle with a capacity of 1,000 ml, for glass cleaner, soapy water and other non-corrosive liquids. Due to the adjustable plastic spray nozzle you will obtain any desired result from atomised spray to a strong jet of water. For transport the nozzle can be locked.



■ **DPZ-1500**

Compressed Air Sprayer, professional quality
capacity 1.5 litre

White, transparent plastic container with a capacity of 1,500 ml, for glass cleaner, soapy water or other non-corrosive liquids. Put container under pressure, using the integrated manual pump. To spray, you only need to push the thumb lever. This type of spray bottle is perfect when a large amount of liquid is needed, e.g. to install window films. The handle is ergonomical shaped, comfortable handling even for frequent use. Due to the adjustable brazen spray nozzle you will obtain any desired result from atomised spray to a strong jet of water. For transport the nozzle can be locked.



■ LPR-500

ProGlass Universal Polish bottle at 500 ml

Universally applicable polishing compound to refresh a weathered car finish, to polish light scratches (good filling properties) or glue residues (e. g. after removing a vehicle labelling).

Long-lasting protection and care for every car finish.



■ HRT-150

ProGlass Hand Cleaning Towels dispensing bucket at 150 towels (approx. 28 x 28 cm)

The wet cleaning towels are perfect to remove even resistant dirt, on the way (in service vehicles, busses or lorries) but also at the work place where quick cleaning is required. Within seconds, fat, oil, grease, primer or auto glass adhesive will be removed. The towels have an agreeable odour and they are eudermic. Suitable to clean tools and all other colourfast and water compliant surfaces, such as many plastics, seat covers, roofliners, interior linings and varnished surfaces.



■ HRT-072

SCRUBS-IN-A-BUCKET Hand Cleaning Towels dispensing bucket at 72 towels (ca. 27 x 31 cm)

Mobile and very effective hand cleansing and tool cleaning system. Removes quickly, thoroughly and gently without water strongest dirt like grease, oil, glue, tar, wax, soot, paint, ink, sealant, polyurethane, etc. After cleaning your hands the towels retain enough cleaning power left for the effective cleaning of tools and equipment.

The towels are tintured with a special cleaning agent,

Napped side removes stubborn soils. Smooth side for gentle hand cleansing. The product is antibacterial, doesn't strip the skin's natural oils, and is biodegradable.

The single towels are micro-perforated and can be taken from the bucket easily. SCRUBS-IN-A-BUCKET belongs into every service vehicle and are especially useful for mobile auto glass jobs!

■ **FSD-025L**



Fein Vacuum Cleaner Dustex 25 L

Compact, powerful wet and dry extractor for workshop and assembly work.

Automatic start/stop for connecting up power tools. With soft start function for smooth operation.

Included parts:

- 1 suction hose, 4 m, Ø 35 mm
- 1 filter bag

Technical data:

- Input: 1380 W
- Air flow: 4320 l/min
- Max. vacuum: 245 mbar
- Tank volume: 22 l
- Weight: 8,0 kg
- Cable with plug: 6 m



■ **FDB-025L**



Filter bag for DUSTEX 25 L, pack of 5 pieces





■ OMB-0011

Ombrello Glass Treatment Applicator for single use

A contribution to your safety! Perfect visibility even on worst weather conditions! One single application of the patented glass treatment on windscreen and front side windows, lasts for 20,000 km or 10 months. Visibility improves up to 34 %, which means a significant reduction of your reaction time in critical situations. Ombrello glass treatment also makes it easier to remove ice and any contamination.

Despite numerous praised products, based on the auspicious nano-technology, the patented original still remains our favorite!

None of the competitive products tested on our premises reached the same long-lasting hydrophobic effect like Ombrello.

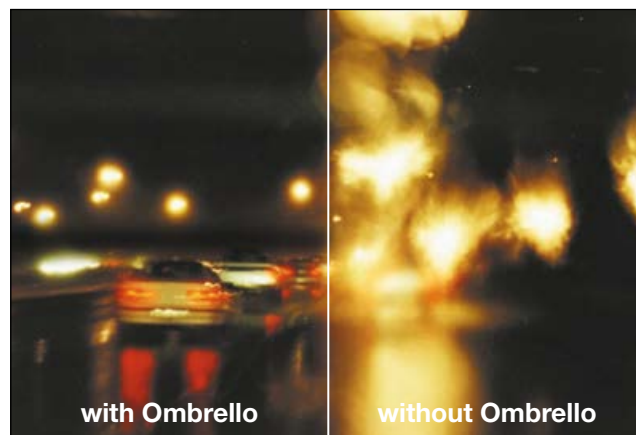
But look and see the difference yourself!



■ OMB-012P

AQUAPEL Glass Treatment Professional Pack at 12 pieces in carton

Aquapel is the original name of 'Ombrello' in the USA and many other countries. You do not need a blister package and instead would prefer more product for the same money? Then this professional pack for 12 applications is exactly what you need.





■ **OMB-6000**

**Ombrello Display Poster
DIN A1 (84 x 59.4 cm)**

A large size, coloured advertising poster for your showroom or shop-window.

(only available in German)



■ **OMB-4000**

**Ombrello Display for 6 blister packs OMB-0011
(delivered without content)**



■ **OMB-3333**

Ombrello Demonstration Jar

A perfect sales promoter for your counter! This glass demonstrates the effect of Ombrello very clearly. The upper part is treated with Ombrello, the lower part is not. Glass contains a powder which turns into a brownish liquid when adding 50 ml water (best to use distilled water). Shaking the glass will show that the water runs off the upper part (treated with Ombrello) immediately whereas the lower part stays hazy for quite a long time.



■ **OMB-5000**

Ombrello Sticker 40 x 35 mm

The small sticker, made of transparent foil, has a field to fill in the application date. Stick the label to the interior, bottom left corner of the windscreen and be sure, your client will not forget to have the Ombrello treatment renewed in due time.





■ **CAP-016**

**Cap in navy-blue, large,
with embroidered ProGlass logo**

■ **CAP-035**

**Cap in navy-blue, small,
with embroidered ProGlass logo**

Everybody has its own head - and therefore not every cap fits on every head! For larger heads we suggest the CAP-016, for smaller heads CAP-035.



■ **TSHIRT**

T-Shirt for Men

T-Shirt in navy-blue, with embroidered ProGlass logo on the left arm and embroidered web address on the right arm. Men's style (slim fit cut), available sizes: M, L, XL



■ **POLO-H**

Polo Shirt for Men

High-quality polo shirt in navy-blue, with embroidered ProGlass logo on the left arm and embroidered web address on the right arm. Men's style, available sizes: S, M, L



■ **POLO-D**

Polo Shirt for Ladies

High-quality polo shirt in navy-blue, with embroidered ProGlass logo on the left arm and embroidered web address on the right arm. Ladies' style, available sizes: S, M, L



■ KAFFEE1

Coffee mug „ProGlass“

Porcelain mug, white, content 0,35 l, with imprint „ProGlass“ and „www.proglass.de“ (on strap-handle)



■ KUGEL-A

Ball Pen

Ball pen with ProGlass logo and imprint:
www.proglass.de
Tel. 07023/900130



■ MESSER-C

Knife CUTTEX 9 mm

Snap-off blade knife CUTTEX by Martor Solingen with ProGlass logo and imprint:
www.proglass.de
Tel. 07023/900130

Blade size 9 mm. Suitable replacement blade item no. ABC-10.



■ ABC-10

Martor Snap-Off Blades, 9 mm wide, package at 10 pieces

Replacement blades for the knife CUTTEX 9 mm



■ SCHIRM-S

Umbrella, small

Small and light-weight Samsonite pocket umbrella with ProGlass logo on the cover. The umbrella itself is also dark-blue and has not promotional imprint.



■ CADDY COIN

Caddy Coin with ProGlass logo

Key ring with caddy coin on a snap hook. The chip shows the ProGlass logo on both sides.



■ SPANNBAND

Banner „ProGlass“ 200 x 100 cm

Large banner with ProGlass logo



■ SPANNBAND2

Banner „ProGlass“ 200 x 40 cm

Small banner with ProGlass logo and imprint „Autoglaswerkzeuge & Zubehör“ (available with imprints in other languages on request)

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Room for Your Notes

This image shows a full page of blank graph paper. The background is a solid light gray color. Overlaid on this background is a precise grid of thin, light blue horizontal and vertical lines. These lines intersect to form a series of small, identical squares that cover the entire area of the page, leaving no margins or other markings.

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General Terms And Conditions

1. Conclusion of Contract

The following general terms and conditions are subject to all deliveries and services of ProGlass GmbH, hereinafter called ProGlass. Deviations of these terms and conditions on side of the purchaser are only recognised insofar as ProGlass expressly agrees to them in writing. The purchaser is bound to his order for three weeks. In case of unauthorised withdraw, ProGlass can claim damages including lost profit. ProGlass is entitled to decline acceptance of order for featured articles or goods out of stock, within three weeks after order has been placed.

2. Prices

All prices are net, excluding VAT (Value Added Tax). Prices are subject to change without prior notice at any time.

3. Delivery

FCA (Free Carrier) Weilheim/Teck, Germany, including packing, excluding transportation costs and customs duties. The transportation is at the consignee's risk. Apart from other delivery specifications on part of the purchaser, delivery is carried out by DHL parcel service or, depending on the size of consignment, by forwarding agent DHL.

4. Payment

Purchasing price as well as possible additional charges are payable with delivery. All invoices are to be paid to the imprest account named by ProGlass. Cheque payment is only considered as effected on day of encashment. Possible cheque fees are at the expense of the purchaser. We reserve the right to ask for payment in advance for all new customer accounts.

5. Minimum order

Please note that the different export regulations for EU, EFTA and Third countries may result in different minimum order values. To receive further information for your country please contact us.

6. Return of goods

Please use our RETURN FORM for all returns. Any returns have to be notified and authorised in advance. Acceptance of returned items is at our sole discretion. All returns are subject to a general restocking fee of 15% of the net value of goods. Items will not be credited if they are damaged, used or in any other way not saleable.

7. Warranty

Any warranty claims must be submitted immediately in written form. It is our sole right under this warranty to repair the defective item or replace it, at our option, without charge. Unless otherwise specified, all sold items are expressly warranted to be free from defects in material and workmanship for 12 months (for commercial purchasers) and 24 month respectively (for private individuals) from the date of delivery. All other warranties are disclaimed.

8. Ownership reservation

Title to the goods shall remain with the seller until all outstanding amounts are fully paid. In the case of resale the debt claim to the third party is to be assigned to the seller.

9. Data storage

Person related data in connection with the privacy of contract will be stored by us.

10. Place of performance and jurisdiction

Place of performance and jurisdiction is D-73230 Kirchheim unter Teck (Germany). We reserve the right to sue at the place of the registered office or residence of the buyer.

As of April 2014 (updated version on our website www.proglass.de or upon request)



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