

**proGlass®**

**AUTO GLASS TOOLS & ACCESSORIES**

**EDITION 2018/2019**

# Cut-Out Technology



# Preparation



# Installation



# Specialty Tools



# Repair



# Protection & Care



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## **IMPRINT**

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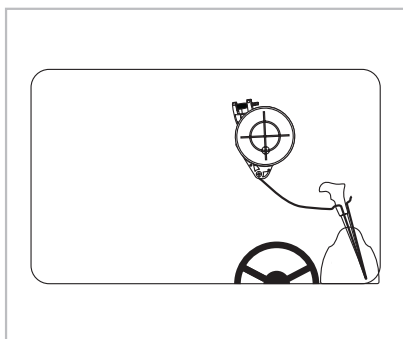
**1** Cord & Wire Cut-Out Technology

On its implementation in the year 2012 the SPIDER from WRD Glass Tools has revolutionized the market of cut-out tools! In the meantime the third generation of this patented tool enables technicians to separate bonded vehicle glasses without any damage. For cutting the adhesive bead it uses a specially designed, high tensile strength cutting line. This method is not only gentle to the vehicle and its interior, but also allows a very fast operation.



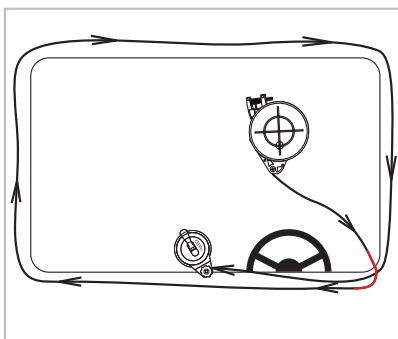
Due to the tremendously increased tensile strength of the cutting line over the last years, the tool itself also had to become stronger. The SPIDER 3 therefore includes several detail improvements which either increase the durability or optimize the working method. For more detailed information please refer to the product brochure or visit our website.

### Schematic working method for a bonded windscreen removal in only four steps:

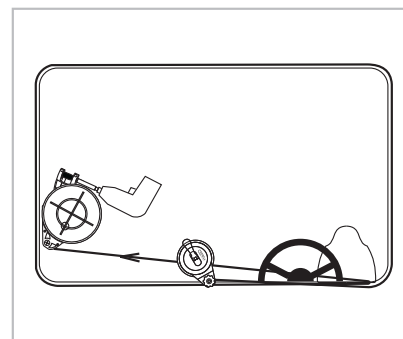


#### PREPARATIONS:

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

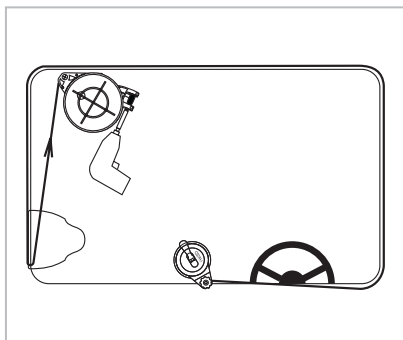


...guide it around the glasses edge and secure it with the anchor suction cup.



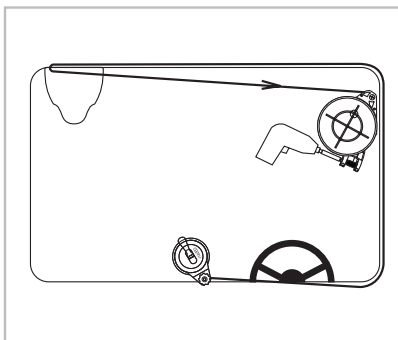
#### STEP 1:

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



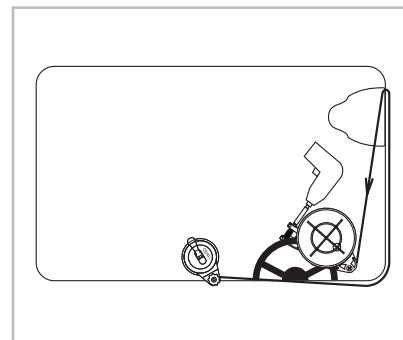
#### STEP 2:

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-003K



### Removal Device SPIDER 003S complete kit in plastic case

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 long (item no. WSR-003K-BIT-L)
- 1 bit short (item no. WSR-003K-BIT-K)
- 1 cutting line install tool (item no. MS-180-WSP)
- 1 Spider cutting line, spool at 96 m (item no. P8)
- 1 anchor suction cup (item no. AS-115-K)
- 1 mini hook (item no. MH-140-WSP)
- 1 instruction manual
- 1 foam lined plastic case

Additionally needed accessories:

High-torque variable speed cordless drill, e.g.

Fein cordless drill 12 V (item no. ABSU-12C) or

Fein Cordless drill / driver 12 V (item no. ASCM-12C)



European Patent  
No. EP 2 540 463  
German Utility Patent  
No. 20 2012 009 378.9  
**Further patents pending**

*quicklink to the  
product video*







■ P6

**Spider Cutting Line P6, 96 m,  
14 pre-marked lengths at 6.85 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. The multiple reusable cutting line P6 offers a very high tensile strength and abrasion resistance at a diameter of only 0.6 mm. Thanks to the small diameter this line applies only gentle pressure on the glass so that most windscreens can be removed without breaking.

Application: with SPIDER removal system

Tensile strength: 110 kg (1078 N)

Diameter: 0.6 mm



■ P8

**Spider Cutting line P8, 96 m,  
14 pre-marked lengths at 6.85 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. The multiple reusable cutting line P8 offers a very high tensile strength and abrasion resistance at a diameter of 1.0 mm

Application: with SPIDER removal system

Tensile strength: 165 kg (1618 N)

Diameter: 1.0 mm



### ■ TS-135

#### ProGlass Cutting Line TS, Ø 0.5 mm, 135 m on plastic spool

Special line made of high-tensile, braided polyethylene fibre. Thanks to the very small diameter of only 0.5 mm this cutting line can be pulled manually (with handles TSG or DGL). But it can also be used with the SPIDER cutting tool, e. g. for cutting-out a glass that is installed very tight to the pinchweld. However, in that case the line could probably not be used more than once.

Application: manual pulling or with SPIDER removal system

Tensile strength: 95 kg (930 N)

Diameter: 0.5 mm

### ■ W-1414

#### Angle drive 1/4" for WRD Spider

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



### ■ FBH-190

#### Flexible bit holder for WRD Spider

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 drive W-1414.

Length: approx. 190 mm





■ **DBP-1824-WSP Dashboard Protector for WRD Spider**

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

Dimensions: 230 x 240 mm



■ **DBP-3316-WSP Dashboard Protector for WRD Spider approx. 330 x 160 mm**

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

Dimensions: approx. 330 x 160 mm



■ **DBP-4024-WSP Dashboard Protector for WRD Spider approx. 400 x 240 mm**

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

Dimensions: approx. 400 x 240 mm



■ **DSF-075 Wire/Cord guiding needle Package of 10 pieces**

Guide Pins are used from the outside in the PU bead, a must to guide the wire or line into the right position. Especially by windshield overhanging the pinchweld at bottom.

Total length: 75 mm

## ■ TSG-400

**Cutting Line Handles, set of 2 pieces**

Pull handle from WRD Glass Tools in the design of the Spider removal tool. With the ergonomically shaped pull handles the fibre line is clamped reliably and hence can be used also for manual cutting of adhesive beads as well as for the removal of spoilers, trims, badges, antenna covers, etc. With useful PVC suction cup for safe „parking“ of the handle on all smooth surfaces.



## ■ TSG-401

**Cutting Line Handle, single**

Pull handle from WRD Glass Tools in the design of the Spider removal tool. With the ergonomically shaped pull handle the fibre line is clamped reliably and hence can be used also for manual cutting of adhesive beads as well as for the removal of spoilers, trims, badges, antenna covers, etc. With useful PVC suction cup for safe „parking“ of the handle on all smooth surfaces.



## ■ ESS-150



### ProGlass One Man Cutting Line Tool Kit ESS

Tool kit for the manual cut-out of bonded vehicle glazing and attached parts with cutting line by only one person.

Thanks to the small diameter the ProGlass cutting line TS can also be operated manually. For cutting out windscreens (or other bonded glasses and attached parts) by only one person this kit contains a 150 mm diameter suction tool with a recessed arm and a fixing point for the cutting line. Attached to the inside of a windscreen this suction tool will hold the line end securely while you cut through the adhesive by pulling with the pull handle from outside.

Kit contains:

- 1 suction cup with cutting line fixing point (item no. ESS-150)
- 1 ProGlass cutting line, 135 m (item no. TS-135)
- 1 wire threader (item no. DST-210)
- 1 cutting line handle with suction cup (item no. DGL-201TS)

## ■ DGL-201TS



### Cutting Line 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 handle is made of shock resistant plastic, sleeve and shaft are made of chrome-plated metal. Suction cup made of clear PVC.





■ **AS-115-K**

**Anchor Suction Cup Ø 115 mm (plastic) for WRD Spider**

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



■ **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



■ **MH-140-WSP** **Mini Hook 140 mm**

The mini hook with its double bent tip facilitates grabbing the cutting line from the pinchweld.



■ **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.

■ **ABSU-12C**



**FEIN Cordless Drill / Driver  
incl. second battery pack 12.0 V Li-Ion**

- Powerful and long-life DC motor with overheating and overload protection.
- Robust solid metal drill chuck with chucking force safety device.
- Short design of 180 mm.
- Perfect for use with stepped drill bit, e.g. for drilling initial holes in sheet metals.
- 17 torque levels – force can be easily metered up to 30 Nm for tough screw connections.
- 2-speed solid metal gearbox.
- Bright LED light on housing.
- 2.5 Ah battery capacity for up to 350 screw connections (5 x 40 mm).
- FEIN SafetyCell technology. Protects the battery and tool from overload, overheating and total discharge.
- The battery charge can be read off the battery.
- Includes belt holder and magnetic bit holder.
- One charger for all FEIN Li-ion batteries of all voltage classes.

■ **BP-012-ABSU** Li-Ion Battery Pack 12 V, 2.5 Ah for ABSU-12C / ASCM-12C

■ **ASCM-12C**



**FEIN Cordless Drill / Driver  
incl. second battery pack (12.0 V Li-Ion / 2,5 Ah)**

- Brushless FEIN PowerDrive motor, powerful and maintenance free for maximum efficiency and service life.
- Solid metal removable drill chuck for excellent load handling under the toughest conditions.
- The optimum cutting speed for any drill diameter thanks to 4-speed solid metal gearbox.
- Speed 4 for drilling 6 mm in metal at 2500 rpm.
- Speed 1 for powerful thread cutting.
- Optimum speeds for self-drilling screws.
- Speeds can be easily metered for work with stepped drill bit.
- Drill chuck with spindle lock and chucking force safety device.
- Compact 150 mm length (without drill chuck).
- 2.5 Ah battery capacity for up to 400 screw connections (5x 40mm).
- FEIN SafetyCell technology. Protects the battery and tool from overload, overheating and total discharge.
- The battery charge can be read off the battery.
- Includes belt holder and magnetic bit holder.
- Bright LED light on housing.
- One charger for all FEIN Li-ion batteries of all voltage classes.

■ **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

■ **ADR-300****FEIN Cutting Wire 300 m**

Replacement wire for FEIN SuperWire cutting system



■ VIP-1138

**Cut-Out System Equalizer Viper tool kit in soft carry case**

The Equalizer® Viper™ is a wire removal device designed for small quarter glass removals, but can also be used on windshields and back glasses. It's small, light, and easy to maneuver. Simply use a 1/2" drive ratchet with a 1-1/8" socket slipped over the shaft of the tool to rotate the wire reel. The double direction capability of the reel allows for optimum use and the magnetic points on the ratchet shaft ensure that your ratchet stays firmly attached to the tool, even in steep/vertical scenarios.

Kit Includes:

- 1 Viper Tool (Includes 1/2" Drive Ratchet & 1-1/8" Socket)
- 1 Center Start
- 1 Mini Anchor
- 1 Clear Dash Protector
- 1 Roll of Squire™ Wire
- All packaged in a soft carry case with foam liner.



*quicklink to the product video*



■ VT-1136

**Cut-Out Tool Equalizer Viper**

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

Scope of Delivery:

- 1 Viper Tool
- 1 Ratchet (1/2" Drive)
- 1 Special Socket (1-1/8")



## 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.







■ SD-02

■ SD-22

■ SD-44

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

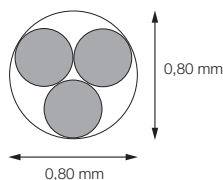
**ProGlass Sawing Wire SD,**  
Ø 0.80 mm, 22 m on plastic spool

**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 its 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)





■ DD-02

■ DD-50

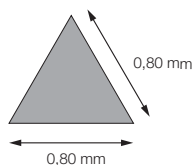
**ProGlass Cut-Out Wire DD,  
triangular 0.8 x 0.8 mm, ring at 2.0 m**

**ProGlass Cut-Out Wire DD,  
triangular 0.8 x 0.8 mm, 50 m in cardboard box**

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)





■ VKD-02

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

■ VKD-22

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

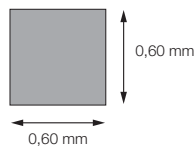
■ VKD-44

**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**

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

■ **XKD-22**

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

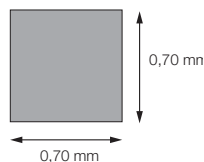
■ **XKD-44**

**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, CUT-IT, Viper 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)





■ **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)



### ■ 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-210)
- 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-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.



■ 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.



■ **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.

■ **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



■ **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





■ **DGH-300****ProGlass Wire Guide**

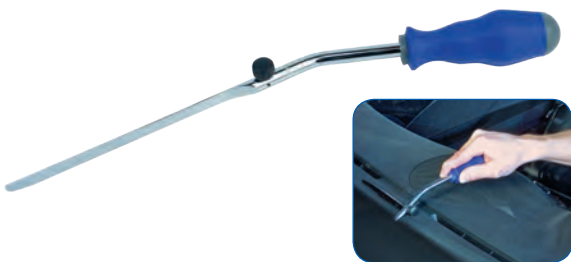
The wire guide can prevent you from damaging the dash board, interior trims or the painted body of the vehicle. Length of the flat tip: 7 cm, overall length of the tool is approx. 34 cm. Knurled head screw with thread in M4 for secure fastening of the wire without the use of tools.

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

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

■ **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.

■ **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.

Made of aluminium with red vinyl cover.





■ **DEG-053**

**Curved Wire Threader, 53 mm  
package at 3 pieces**

■ **DEG-058**

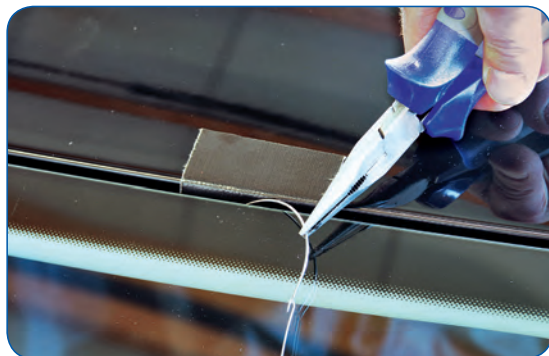
**Curved Wire Threader, 58 mm  
package at 3 pieces**

■ **DEG-061**

**Curved Wire Threader, 61 mm  
package at 3 pieces**

■ **DEG-SET**

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

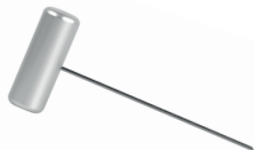


The curved wire threader enables threading of the cutting wire even where the gap between the glass and the pinchweld is very small. This is especially helpful on side and back windows where conventional wire threaders are often difficult to use. The curved threader can be pushed through the adhesive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

■ **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-210**

**T-Handle Wire Threader, large  
length: 210 mm**

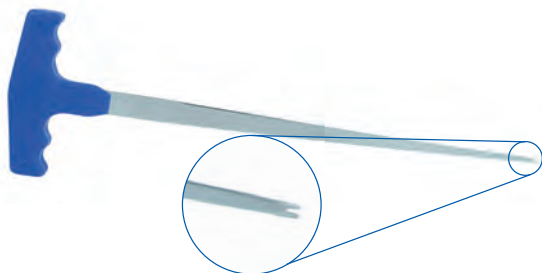
Hollow needle made of steel with a T-handle made of aluminium to pierce the polyurethane bead and pass the wire through.



■ **DST-733**

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

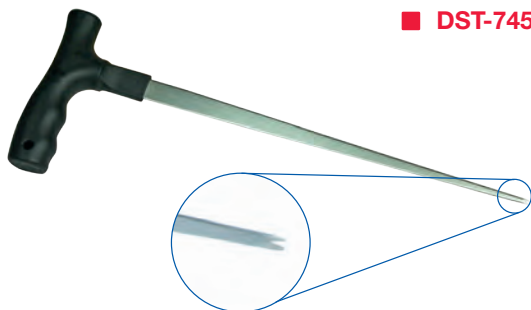
Very solid wire threading device with a flexible blade made of spring steel. Just lay the wire in the notched tip and pass it through the polyurethane by pushing the tool from the inside to the outside.



■ **DST-745**

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

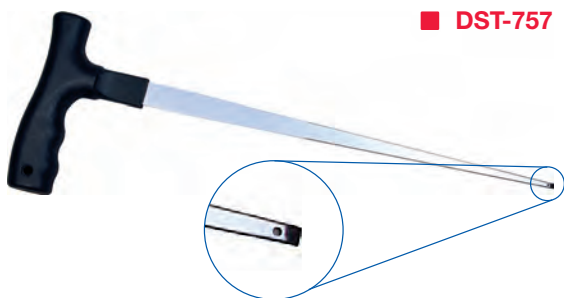
Very solid wire threading device with a flexible blade made of spring steel. Just lay the wire in the notched tip and pass it through the polyurethane by pushing the tool from the inside to the outside.



■ **DST-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.



■ **WS-782**

**O-Handle Wire Threader, small, Length: 125 mm**

■ **WS-782P**

**O-Handle Wire Threader, long, Length: 230 mm**

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







■ **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



■ **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



■ **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.



### ■ ZFK-3007

#### ProGlass Pull Knife / Pinchweld Scraper Kit

Complete tool kit for cutting-out bonded vehicle glasses and for preparing the pinchweld for the replacement glazing.

Kit contains:

- UltraWiz Pull Knife with fast release system
- UltraWiz Serrated Blade, 19 mm long
- UltraWiz Serrated Blade, 25 mm long
- UltraWiz Serrated Blade, 38 mm long
- Scraper, 120 mm long
- 10 Scraper Blades, 18 mm wide
- Parer Blade, Ø 6 mm
- Parer Blade, Ø 12 mm
- foam lined plastic case



### ■ 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.



■ **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)

■ **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)

■ **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)

■ **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)

■ **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!

■ **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.



■ **UW-109**

**UltraWiz Pull Knife Blade 9 mm long  
package at 5 pieces**

■ **UW-1000-P**

**UltraWiz Pull Knife Blade 9 mm long  
package at 10 pieces**



■ **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-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-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.

## ■ 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

## ■ UWG-3

**UltraWiz Serrated Blade Assortment, in 3 parts**

Kit contains:

- 1 UltraWiz Serrated Blade 19 mm long
- 1 UltraWiz Serrated Blade 25 mm long
- 1 UltraWiz Serrated Blade 38 mm long

## ■ 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

## ■ 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-550

■ UW-565



**UltraWiz Pull Knife Blade,extra thin, 50 mm long**

**UltraWiz Pull Knife Blade, 65 mm long**

Due to its special length this blade enables you to cut an adhesive bead that is set back from the glass edge.

■ UW-5500

■ UW-5501



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

**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.



■ **ZK-0119**

**Standard Stainless Steel Blade, 19 mm long**

■ **ZK-0119-P**

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

■ **ZK-0125**

**Standard Stainless Steel Blade, 25 mm long**

■ **ZK-0125-P**

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

■ **ZK-0138**

**Standard Stainless Steel Blade, 38 mm long**

■ **ZK-0138-P**

**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**

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

■ **ZKS-180**

**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.









■ 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**

**Scrapper 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**



■ **OK-55**

**Cutting blade, serrated, straight, Blade lenght 37 mm,  
cutting depth 30 mm**



■ **OK-56**

**Cutting blade, straight, Blade lenght 43 mm,  
cutting depth 30 mm**



■ **OK-57**

**Cutting blade, curved 45°, Blade lenght 43 mm,  
cutting depth 27 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.



■ 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).



■ 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



■ **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-20M

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



■ OP-20F

Air Plug with inside thread R 1/4"



■ OP-20M

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"

■ **AFSC-17**

**FEIN Battery-Powered SuperCut Automotive AFSC 1.7 Q with quick clamping system, in tool case with accessories**

Kit contains:

- 1 FEIN Battery-Powered SuperCut AFSC 1.7 Q  
10,000-19,500 1/min, net weight (incl. battery) approx. 1.8 kg
- 1 sharpening stone
- 1 protective cover for tool changes
- 2 Li-Ion battery packs 18 V, 5.0 Ah
- 1 battery charger
- 1 plastic tool case



■ **AFSC-17-A**

**FEIN Professional Set For Vehicle Glazing (Battery-Powered)**

Kit contains:

- 1 FEIN Battery-Powered SuperCut AFSC 1.7 Q  
10,000-19,500 1/min, net weight (incl. battery) approx. 1.8 kg
- 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)
- 1 sharpening stone
- 1 protective cover for tool changes
- 2 Li-Ion battery packs 18 V, 5.0 Ah
- 1 battery charger
- 1 plastic tool case



■ **BP-AFSC-17** Li-Ion Battery 18V, 5.0 Ah for AFSC-17



■ **FEC-417**



**FEIN SuperCut Automotive FSC 1.7,  
in tool case with accessories**

Kit contains:

- 1 electronic oscillator 450 W  
10,000-19,500 1/min, net weight: approx. 1.45 kg
- 1 blade exchange key
- 1 sharpening stone
- 1 plastic tool case

■ **FEC-417Q**



**FEIN SuperCut Automotive FSC 1.7, with quick clamping  
system, in tool case with accessories**

Kit contains:

- 1 electronic oscillator 450 W  
10,000-19,500 1/min, net weight: approx. 1.65 kg
- 1 sharpening stone
- 1 plastic tool case

■ FEC-417Q-A

**FEIN Professional Set For Automobile Workshops**



Kit contains:

- 1 FEIN SuperCut FSC 1.6Q (FEC-417Q) 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-417Q-B

**FEIN Professional Set For Bus and Truck**



Kit contains:

- 1 FEIN SuperCut FSC 1.7Q (FEC-417Q) 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**  
cranked, 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

\* immersion length/cutting length



■ **FB-123**

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



■ **FB-157**

**FEIN Hooked Blade,**  
length 60 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



■ **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

■ **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.

■ **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.

■ **ATV-2012**

quicklink to the  
product video

**Equalizer Ambush 20 V (Equalizer® Express® series)**

The Equalizer® Ambush™ is designed to cut through the toughest urethane. A heavy-duty 20-Volt motor provides the power to quickly remove the most difficult glass and with the convenience of the battery, there is no need to worry about finding an electrical outlet or extension cords. It has a rubber over molded comfort grip that allows for optimal comfort and control and a quick release blade clamp that makes it fast and easy to change blades on the fly.

Kit contains:

- 1 Equalizer® Ambush™ Removal Tool
- 1 20-Volt battery DCB-205
- 1 battery charger DCB-105
- 1 Blade BFE-1400
- 1 Instructional DVD
- 1 pair of safety glasses
- 1 heavy-duty plastic carrying case

■ **ES-1406****Equalizer® Express® Sheath**

The sheath is the unique, patented idea that allows the Equalizer® Express® to use a flexible blade and still have the strength to cut the toughest polyurethane. All Express® tools use the same sheath.

■ **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.

■ **BFE-1400**

**Equalizer® Express® Blade, standard, wide**

The Equalizer® Express® Blades were developed from daily use on hundreds of different vehicles. The BFE-1400 is the most used size and is perfect for slicing through wide bands of polyurethane. It works well in all places where you plunge cut or angle cut. The BFE-1401 blade is perfect for removing glass that is not broken. The narrow blade is more flexible and puts less stress on the glass.



■ **EHB-186**

**Equalizer® Express® Blade, long, wide**

Express® HydroBlades have a series of small dimples stamped on the side of the blade that rides against the polyurethane. These dimples are designed to carry cutting lubricant into the polyurethane. The cutting lubricant allows for each stroke of the blade to slide easily through the polyurethane. Besides making the blade cut easier they also save battery life and reduce vibration because of the reduced friction on the blade.



■ **MEH-234**

**Manual Handle for Express® Blades**

With this manual handle you can use any Equalizer Express® Blade as a long knife. The handle is made of aluminum and is 215 mm long (perfect for two handed operation). The blade can be set into the handle at any depth from 20 mm up to 95 mm just by tightening the steel screw into the blade when you have set the blade at the desired depth. Blade not included.



■ **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.





**...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



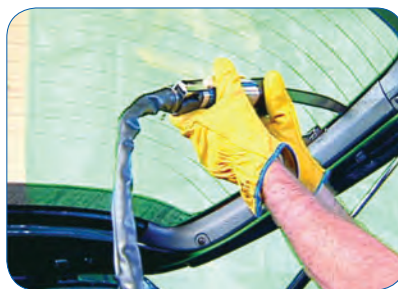
#### **short blades**

for good tool control  
in easy accessible  
areas



#### **from outside**

operates as a pow-  
ered pull knife that  
allows cutting from  
outside for extre-  
mely fast removal  
without physical  
force



#### **from inside**

the flexible and ver-  
satile blades follow  
curved glass as  
found for example  
on hatch glasses,  
safely remove en-  
capsulated 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, pa-  
nels and mouldings



■ **WKSTR-BX**

**BTB Starter Kit (4 blades) in plastic case**

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, WK12DVD Introduction & Training DVD
- sturdy plastic case



■ **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, WK12DVD Introduction & Training DVD
- 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, WK12DVD Introduction & Training DVD
- 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, WK12DVD Introduction & Training DVD
- sturdy plastic case



### ■ WKBTR15-BX BTB Bus, Truck & Rail Kit (15 blades)



For the bus, truck, rail and commercial vehicle industries, this toolkit contains blades specifically suited to adhesive bonded glass and bonded panel removal on today's transport fleets.

Kit contains:

- heavy duty air tool WK10HD, net weight approx. 1.6 kg
- blades: WK1-S, WK1X, WK2-S, WK4Z-S, WK4ZR-S, WK4-S, WK5-S, WK27S, WK27M, WK27L, WK28S, WK28M, WK28L, WK6-L, WK6-40
- adjustable cutting depth control arms: WK11BW5, WK11DW5, WK11EW
- accessories: WK7, WK7L, WK8DSM, WK9, WK9B, WK11VEL, WK20, WKGA
- training Package: users manual, WK12DVD Introduction & Training DVD
- sturdy plastic case

*quicklink to the product video*



### ■ WK10HD

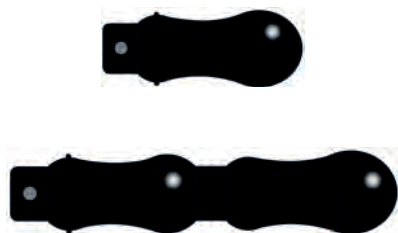
#### BTB Heavy Duty Air Power Tool



- 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.



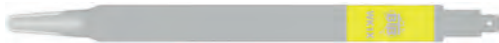
- **WK1**

#### **BTB Long Blade, flat, 300 mm long**



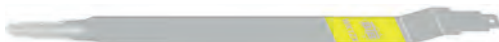
- **WK1-S**

#### **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**

|   |                  |   |
|---|------------------|---|
|    | ■ <b>WK3</b>     | BTB General Purpose Blade, bent, 200 mm long                                    |
|    | ■ <b>WK3-S</b>   | BTB General Purpose Blade, bent, serrated, 200 mm long                          |
|    | ■ <b>WK4</b>     | BTB Blade, bent,<br>flexible blade for curved glass, 190 mm long                |
|    | ■ <b>WK4-S</b>   | BTB Blade, bent, serrated,<br>flexible blade for curved glass, 190 mm long      |
|    | ■ <b>WK4Z</b>    | BTB Blade, cranked, 140 mm long   |
|    | ■ <b>WK4Z-S</b>  | BTB Blade, cranked, serrated, 140 mm long                                       |
|    | ■ <b>WK5</b>     | BTB Blade, flat, 130 mm long  |
|    | ■ <b>WK5-S</b>   | BTB Serrated flat blade,<br>130 mm long   |
|  | ■ <b>WK24</b>    | BTB blade for curved glass,<br>240 mm long                                      |
|  | ■ <b>WK24-S</b>  | BTB Long Blade, bent, serrated,<br>flexible blade for curved glass, 240 mm long |
|  | ■ <b>WK24Z</b>   | BTB Blade, cranked,<br>flexible blade for curved glass, 150 mm long             |
|  | ■ <b>WK24Z-S</b> | BTB Blade, cranked, serrated,<br>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



■ **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



■ **WK4ZV-S**

BTB V-Blade, cranked, serrated, for curved glass  
140 mm long

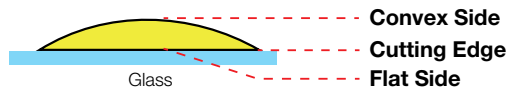


■ **WK4ZVR-S**

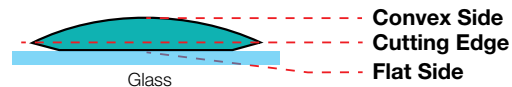
BTB VR-blade, cranked, serrated, sharpened on the rear side  
140 mm long



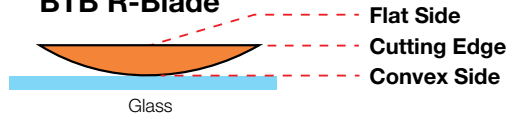
### BTB Blade



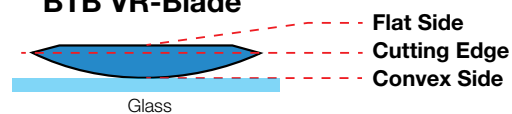
### BTB V-Blade



### BTB R-Blade



### BTB VR-Blade





■ **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



■ **WK28S** BTB Right Hand Power Cold Knife Blade, 19 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**



■ **WK18Z**

**BTB Spade Blade, cranked,  
140 mm long, wide spade shape**



■ **WK18ZS**

**BTB Spade Blade, cranked, serrated,  
140 mm long, wide spade shape**



■ **WK19Z**

**BTB Spade Blade, cranked,  
180 mm long, wide spade shape**



■ **WK19ZS**

**BTB Spade Blade, cranked, serrated,  
180 mm long, wide spade shape**



■ **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**

■ **WK6-40**

**BTB Pinchweld Scraper Blade, 40 mm wide**

■ **WK6-SET**

**BTB Pinchweld Scraper Set in 6 parts**

BTB Pinchweld Scraper Set, including the following components:

- 1 scraper blade 15 mm wide (WK6-S)
- 1 scraper blade 20 mm wide (WK6-M)
- 1 scraper blade 25 mm wide (WK6-L)
- 1 scraper blade 40 mm wide (WK6-40)
- 1 manual handle (WK7)
- 1 universal key (WK-KEY)





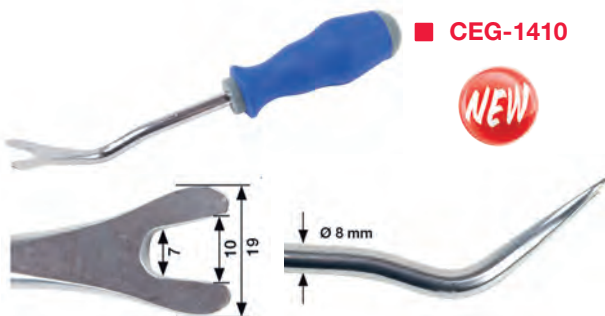


■ CE-119

#### Clip Remover, flat/narrow

Clip Remover with flat and narrow nose for removing all kind of plastic clips. Ergonomically shaped, two-component ProGlass handle, shaft made of solid metal.

Total length: approx. 210 mm



■ CEG-1410

#### Clip Remover flat/wide

Clip Remover with flat and wide nose for removing all kind of plastic clips. Ergonomically shaped, two-component ProGlass handle, shaft made of solid metal.

Total Length: 220 mm



■ 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.

Total Length: 195 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.

Total Length: 230 mm

■ **CE-607****Clip-Remover, angled**

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

Total Length: 195 mm

■ **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.

Total Length: 230 mm

■ **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.

Total Length: 155 mm

■ **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.

Total Length: 240 mm







■ **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.



■ **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.



■ **CDZ-195**

### Clip Pliers

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

Total Length: 195 mm



■ **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.

Total Length: 210 mm



■ **CE-749****Special Tool for C-Clips**

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

■ **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.

Total Length: 225 mm

■ **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.

■ **MHS-068****Hook and Pick Set, in 4 parts**

These mini hooks are only about 130 mm long. They are very helpful where 'normal' hook tools do not work.



■ **CEK-180**

**Clip & Strip Remover**

Total Length: 180 mm



■ **CEK-215**

**Clip & Strip Remover**

Total Length: 215 mm



■ **LHK-160**

**Trim Jack 160 mm long, 60 mm wide**



■ **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.



■ **HBS-027**

Trim & Clip Remover Kit in 27 parts,  
with blow moulded plastic case





■ **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**

Total Length: 175 mm



■ **LEC-175FL**

**Straight Clip Remover, L-shaped**

Total Length: 175 mm



■ **LEC-175FV**

**Straight Clip Remover, V-shaped**

Total Length: 175 mm



■ **LEC-175FZ**

**Straight Clip Remover, Z-shaped**

Total Length: 175 mm



### ■ 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

Total Length: 175 mm



### ■ LEC-175GU

#### Bent Clip Remover, U-shaped

Total Length: 175 mm



### ■ LEC-175GV

#### Bent Clip Remover, V-shaped

Total Length: 175 mm



### ■ MS-205



#### Installation Stick Pointed/Round plastic, 205 mm long

This installation stick is the perfect tool for dismantling those damageable plastic covers from rear view mirrors and cameras.



■ **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.





■ **MSL-265****Installation Lever flat/clip made of plastic, 265 mm long**

Long lever tool with one flat-angle wedge end and one clip lever end.

■ **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.

■ **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.





■ **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

■ **WAS-700****Universal Wiper Arm Puller Set**

- No. 1 Alfa-Romeo, Audi, BMW, Citroen, Fiat, Ford, Honda, Jaguar, Mazda, MG-Rover, MB, Mitsubishi, Opel, Peugeot, Renault, Seat, Skoda, Volvo, VW, Mercedes, Chevrolet
- No. 2 Alfa-Romeo, Audi, BMW, Citroen, Fiat, Ford, Honda, Hyundai, Jaguar, Land Rover, MB, Opel, Peugeot, Renault, Saab, VW, Mercedes, Chevrolet
- No. 3 Alfa-Romeo, Audi, BMW, Fiat, Citroen, b Ford, Mazda, MB, Mitsubishi, Opel, Peugeot, Smart, Volvo, VW, Chevrolet
- No. 4 Citroen, Hyundai, MB, Opel, Mercedes, Chevrolet
- No. 5 Alfa-Romeo, Audi, BMW, Ford, Jaguar, Land Rover, Mazda, MB, Volvo, VW
- No. 6 Citroen, Ford, Peugeot

■ **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 defl ectors. It can also be used for nearly all other types of wipers. Made of specially hardened steel.

■ **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.



■ 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.



■ 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.



■ 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.



■ **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.



■ **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: 33 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.



■ **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.



■ **WAZ-919**

**Wiper Arm Pliers**

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



■ **GH-701**

**Rubber Hammer Ø 50 mm**  
**weight: 380 gr**

Almost indispensable tool to install mouldings and linings.



■ **GPZ-225**

**Grip Pliers, 225 mm long**

- Straight grip pliers made of chromoly steel (CrMo)
- Holds round, profile and flat material securely
- With adjustment screw and release lever for one-hand operation
- High clamping pressure due to toggle lever action
- Holding capacity 0-30 mm





■ **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)



■ **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**

■ **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).



■ **WSS-106**

**Angle Screwdriver without handle  
for use with the cordless driver**

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



■ **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.





### ■ 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.



■ **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. The telescopic bonnet holder is stepless adjustable from 54 to 120 cm.





### ■ SSH-290

#### Window Holder Set

Holds the side window while you are working on the window lifter so that you have both hands free. Very stable due to cast-in thread. Cable length 45 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.



■ **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)







■ **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 150 mm long
- 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-007  **Parer Blade, 7 mm wide, max. cutting depth 9 mm**



- SCE-012 **Parer Blade, 12 mm wide**



- SCR-006 **Parer Blade, Ø 6 mm**



- SCR-012 **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-120, 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.

■ **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-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.







■ 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.



■ FGS-140

**Flat Glass Scraper with 1 blade, 89 mm wide**

■ RK-8905

**Razor blades for FGS-140, package of 5 pieces**



This extra wide glass scraper with its retractable 89 mm wide blade is perfectly suited for removing large labels and stickers or window films.







■ **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.



■ **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



■ 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**

Includes one small and one large blade.



■ UCL-322

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

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



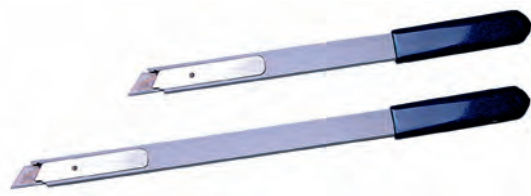
■ UCS-321

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

width of cut: approx. 7 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**

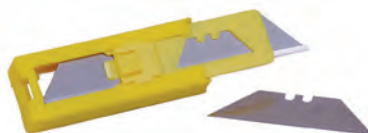
Ergonomically shaped knife, also for big hands, with non-skid rubber platings. The blade is fully retractable. The blade length can be regulated with the slide in multiple steps. It has an eject button to exchange the blade rapidly and without using a screwdriver. Replacement blades can be stored in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



■ **TK-10**

**Trapezoid Blades, dispenser at 10 pieces**

■ **TKS-100**

**Trapezoid Blades, dispenser at 100 pieces**

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 95 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.



■ **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-40**

**Olfa® Knife for 9 mm wide 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**



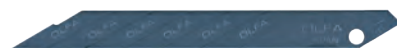
■ **AB-10S**

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



■ **AB-50S**

**Olfa® Snap-Off Blades (stainless steel), 9 mm wide, package at 50 pieces**



■ **SAB-10**

**Olfa® Graphic Snap-Off Blades, 30°, 9 mm wide, package at 10 pieces**

■ **MT-1**

Olfa® Knife for 12.5 mm wide blades with 1 snap-off blade



■ **MTB-10B**

Olfa® Snap-Off Blades, 12.5 mm wide, package at 10 pieces



■ **FWB-10**

Olfa® Snap-Off Blades extra sharp, 12.5 mm wide, package at 10 pieces



■ **FWB-50**

Olfa® Snap-Off Blades extra sharp, 12.5 mm wide, package at 50 pieces







■ L-2

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



■ XL-2

Olfa® Long 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



■ **H-1**

**Olfa® Extra Heavy Duty Cutter 25 mm  
with 1 snap-off blade**



■ **HB-5**

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



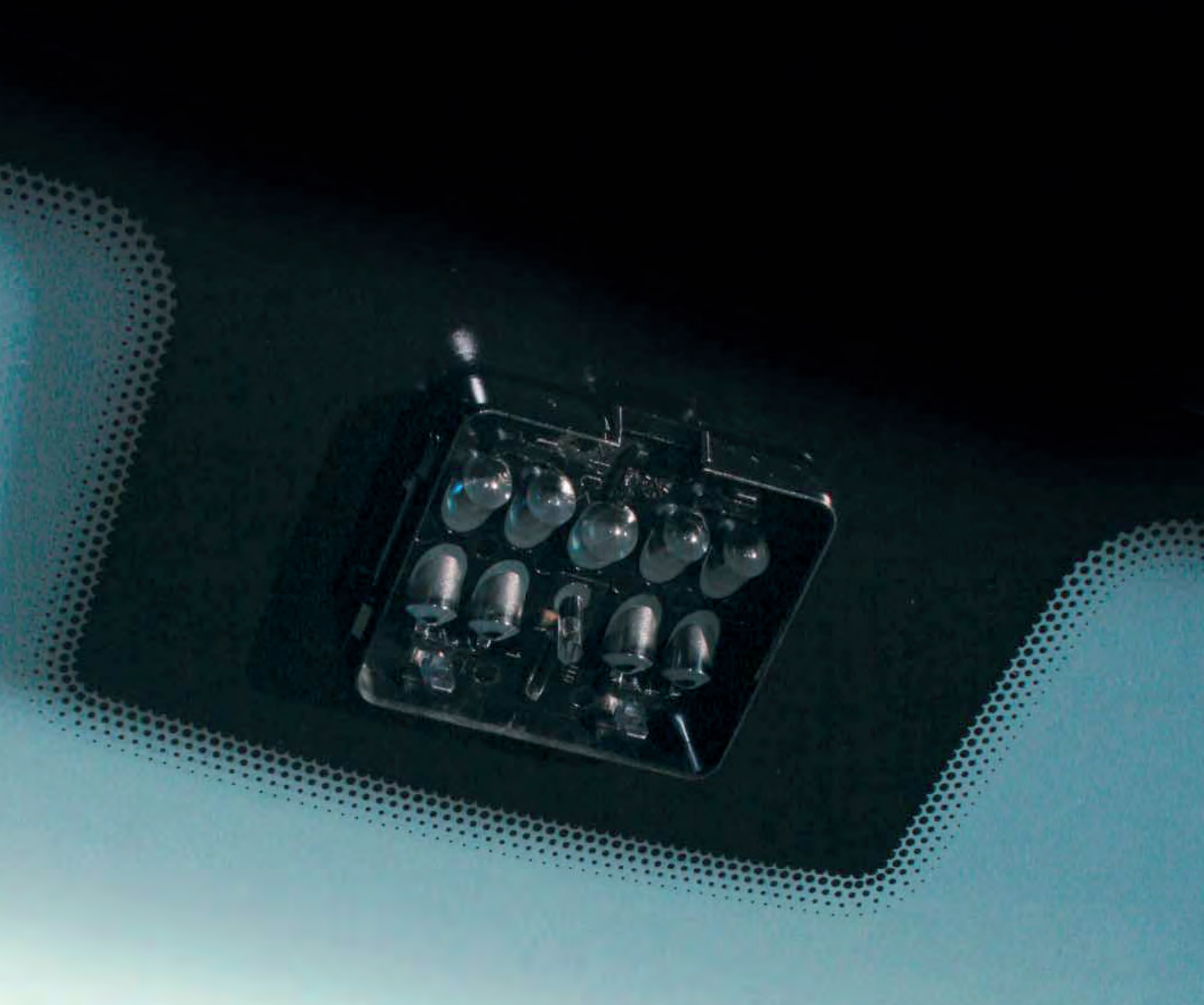
■ **HOK-1**

**Olfa® Hook Cutter**



■ **HOB-1**

**Olfa® Hooked Blade, single**



## 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 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-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-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 - |

Detailed vehicle type allocation table on our website at [www.proglass.de](http://www.proglass.de) or upon request!



■ 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**

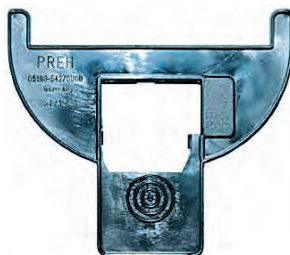
| Vehicle Type           | Eurocode | YOC               |
|------------------------|----------|-------------------|
| BMW E46 Compact        | 2442     | 06/2001 - 08/2001 |
| BMW E60 5-er Limousine | 2445     | 03/2003 -         |
| BMW E61 5-er Touring   | 2445     | 03/2004 -         |
| BMW E63 6-er 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 -         |



■ 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 - |

Detailed vehicle type allocation table on our website at [www.proglass.de](http://www.proglass.de) or upon request!



## Gel Pads for LRS (light and rain sensors)

While in the nineties most sensors had a separate optical unit that was bonded to the glass, the trend nowadays goes to integrated models. These sensors combine the electronic and optical unit in one compact box. When a windscreen is replaced the whole box is taken over to the new glass. These sensors are no longer bonded to the glass, but the optical unit is only joint on to it with a gel pad which can be replaced easily in case of a windscreen exchange.

### How to proceed:

Take off the sensor box from the old windscreen. To do this it is either sufficient to dismount the rearview mirror or to release the retaining bracket. Afterwards the sensor box can be removed from the glass without effort (Pay attention to sensors with opaque silicone pads! These sensors can stick to the glass very tightly and it is very likely to damage the silicone pad. To remove such a sensor we recommend to heat the glass from the outside with a hot air gun - this will help to remove the silicone pad together with the sensors more easily and without damage).

When removing the sensor box in most cases the gel pad will be destroyed. This is why the vehicle manufacturers have specified that the sensor pad must be renewed every time the sensor has been dismounted (this is especially important for crystal clear gel pads). The gel residue can be removed easily by rubbing them off manually. If required you can use a mild cleaner with high alcohol content (e. g. our applicator KPA-250). Please let evaporate thoroughly! Then place the right gel pad on the clean sensor surface and mount the sensor box to the new windscreen.

ATTENTION: The applicator KPA-250 must not be used with our gel pads. The high alcohol content would affect the material. If you need to use a liquid applicator you can use clear water or a liquid glass cleaner with a low alcohol content.



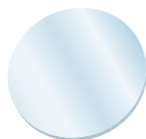
#### ■ GPL-154

**Gel Pads for rain/phot sensor Mazda, Lexus, Subaru, Toyota, Package at 5 pieces**

#### ■ GPL-154-1

**Gel Pads for rain/phot sensor Mazda, Lexus, Subaru, Toyota, Package at 1 piece**

Dimensions: 26 x 34 x 2.0 mm



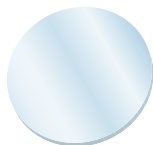
#### ■ GPL-166

**Gel Pads for rain/phot sensor Seat, Skoda, VW, Package at 5 pieces**

#### ■ GPL-166-1

**Gel Pads for rain/phot sensor Seat, Skoda, VW, Package at 1 piece**

Dimensions: Ø 32 x 1.5 mm



■ **GPL-168**

Gel Pads for rain/photosensor Audi, BMW, Buick, Cadillac, Chevrolet, Ford, Opel, Package at 5 pieces

■ **GPL-168-1**

Gel Pads for rain/photosensor Audi, BMW, Buick, Cadillac, Chevrolet, Ford, Opel, Package at 1 piece

Dimensions: Ø 31 x 1.5 mm



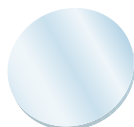
■ **GPL-190**

Gel Pads for rain/photosensor Audi, Alfa, Fiat, Ford, Volvo, Toyota, Opel, Seat, Package at 5 pieces

■ **GPL-190-1**

Gel Pads for rain/photosensor Audi, Alfa, Fiat, Ford, Volvo, Toyota, Opel, Seat, Package at 1 piece

Dimensions: 27 x 32.5 x 1.5 mm



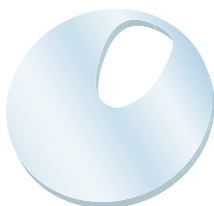
■ **GPL-191**

Gel Pads for rain/photosensor Alfa, Citroen, Fiat, Mercedes, Porsche, Skoda, Toyota, VW, Package at 5 pieces

■ **GPL-191-1**

Gel Pads for rain/photosensor Alfa, Citroen, Fiat, Mercedes, Porsche, Skoda, Toyota, VW, Package at 1 piece

Dimensions: Ø 27 x 1.5 mm



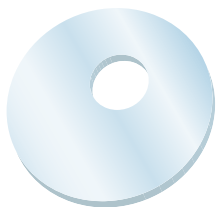
■ **GPL-192**

Gel Pads for rain/photosensor Fiat, Ford, Mercedes, Nissan, Renault, Setra, Package at 5 pieces

■ **GPL-192-1**

Gel Pads for rain/photosensor Fiat, Ford, Mercedes, Nissan, Renault, Setra, Package at 1 piece

Dimensions: Ø 44 x 2.5 mm



■ **GPL-192C**

**Gel Pads for rain/phot sensor BMW, Nissan, Renault, Smart, Package at 5 pieces**

■ **GPL-192C-1**

**Gel Pads for rain/phot sensor BMW, Nissan, Renault, Smart, Package at 1 piece**

Dimensions: Ø 43 x 2.5 mm

■ **PSG-001**

**ProGlass Sensor Gel**

Sensor gel for the regeneration of the gel pad of all light and rain sensors with crystal clear silicone pad.

Two-component special silicone gel for one complete refill of a big sensor, like e. g. on Renault Espace, MB Sprinter or BMW 5 series (our item no. SOL-192...).

If the repair gel is not used completely at once, for example when filling a smaller sensor, immediately remove the mixing nozzle and seal the syringe with the original cap. Additional mixing nozzles are available under item no. PSG-MD10.



■ **PSG-MD10**

**Mixing Nozzle for Sensor Gel, package at 10 pieces**



## 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

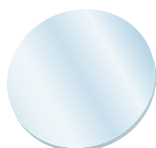
evaporates without residue and does not corrode the plastic, e.g. our primer/cleaner HRS-100. Now first stick on the adhesive pad to the optical unit and then the whole part to the windscreen. For bubble-free, perfect results use our applicator KPA-250.

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](http://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

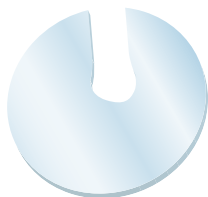
Detailed vehicle type allocation table on our website at [www.proglass.de](http://www.proglass.de) or upon request!



**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



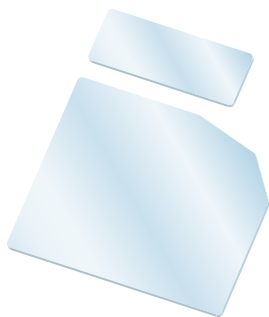
**Light/Rain Sensor Adhesive Pad for Mercedes**  
**Dimensions: 70 x 42 x 1.5 mm**

■ **KPL-197** Package at 5 pieces

■ **KPL-197-1** Package at 1 piece

Detailed vehicle type allocation table on our website at [www.proglass.de](http://www.proglass.de) or upon request!





**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

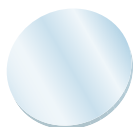
■ **KPL-198-1** Package at 1 piece



**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

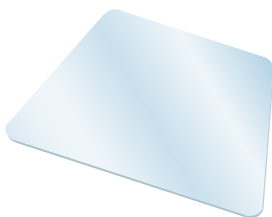
■ **KPR-191-1** Package at 1 piece



**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



**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.

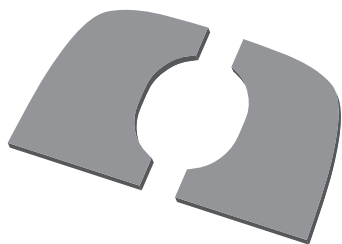
ATTENTION: The applicator KPA-250 must not be used with our gel pads. The high alcohol content would affect the material. If you need to use a liquid applicator you can use clear water or a liquid glass cleaner with a low alcohol content.



**Adhesive Pad for Toll Collect Device**  
**Dimensions: 52 x 37 x 0.8 mm**

■ **KPM-3752** Package at 5 pieces

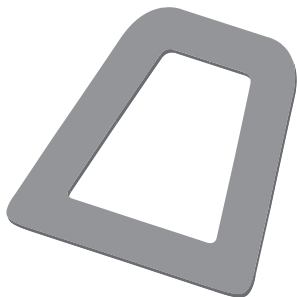
■ **KPM-3752-1** Package at 1 piece



**Adhesive Pads for camera holder for  
IVECO EURO CARGO & DAF XF**  
**Dimensions: 51 x 41 x 20 mm**

■ **KPM-4151** Package at 5 pieces

■ **KPM-4151-1** Package at 1 piece



**Toll Collect DSRC Adhesive Pad**  
**Dimensions: 64 x 44 x 1,6 mm**

■ **KPM-4464** Package at 5 pieces

■ **KPM-4464-1** Package at 1 piece



**Adhesive Pad for sensor / camera holder for lane assistant  
SCANIA R & S series**  
**Dimensions: 100 x 50 x 1,6 mm**

■ **KPM-5010** Package at 5 pieces

■ **KPM-5010-1** Package at 1 piece





**Adhesive Pad for camera holder  
MAN TGA L/M, XL & MB Actros  
Dimensions: 62 x 60 x 1,5 mm**

■ **KPM-6260** Package at 5 pieces

■ **KPM-6260-1** Package at 1 piece



**Adhesive Pad for sensor / camera holder for lane assistant  
MAN TGA L/M, XL  
Dimensions: 132 x 74 x 1,1 mm**

■ **KPM-74132** Package at 5 pieces

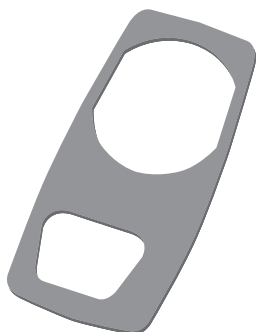
■ **KPM-74132-1** Package at 1 piece



**Adhesive Pad for camera holder  
for lane assistant MB Actros  
Dimensions: 74 x 74 x 1,6 mm**

■ **KPM-7474** Package at 5 pieces

■ **KPM-7474-1** Package at 1 piece



**Adhesive Pad for sensor / camera holder for lane assistant  
MB Actros  
Dimensions: 164 x 80 x 1,6 mm**

■ **KPM-80164** Package at 5 pieces

■ **KPM-80164-1** Package at 1 piece







■ **SL-350-C**

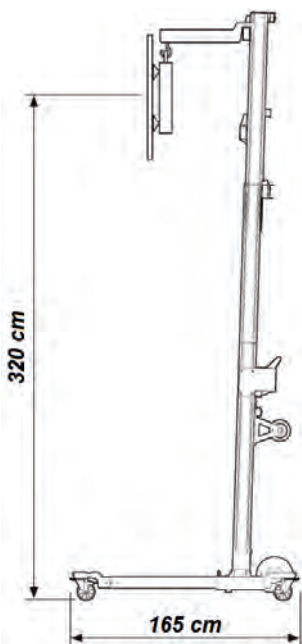
**Windscreen Lift up to 3.50 m height  
for busses, trucks and trains**

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

The model SL-350-C has a suction unit with three suction cups with an overall load capacity of 280 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 154 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. At the same time the use of this equipment significantly reduces the physical stress and the risk of injuries for the technicians.

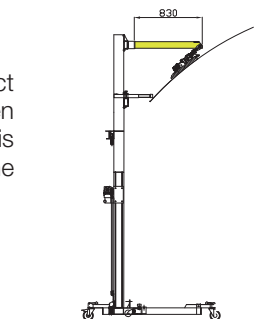






### ■ SL-350-ZV1 Extension 830 mm for Windscreen Lift

The 830 mm long extension arm is perfect for the installation of the upper windscreen on a Neoplan Cityliner or Starliner II. With this extension you can tilt the windscreen to the needed setting angle of 45 degrees.



### ■ SL-350-ZV2 Extension 1,540 mm for Windscreen Lift

With the 1,540 mm long extension arm and the long supports the lift can also be used for the installation of windscreens on vans and smaller trucks.



### ■ SL-350-ZS1 Overturning System for Windscreen Lift

For turning the glass from horizontal to installation position with a cordless screwdriver. ATTENTION: Can only be used in connection with the extension 830 mm (SL-350-ZV1).



### ■ SL-350-ZM1 Motor Kit for Windscreen Lift

Gear motor with wire controller for supplementary installation. The cable length of the wire controller is 5.20 m. With industrial socket IEC 309 (200 - 250 V, 16 A, IP44). Power cord not included!

■ **SL-300-S**

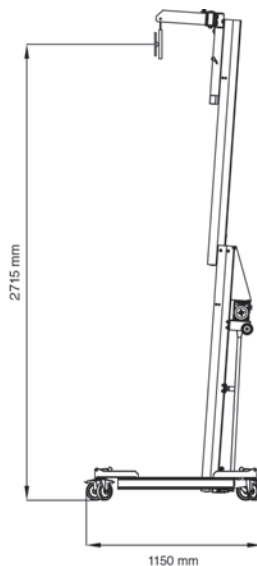
**Windscreen Lift up to 3.00 m height  
for busses, trucks and trains**

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

The model SL-300-S has a suction unit with two suction cups with an overall load capacity of 140 kg. The lift has a total height (extended) of approx. 3.00 m. This is high enough to install the windscreen on most busses and trucks.

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 120 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. At the same time the use of this equipment significantly reduces the physical stress and the risk of injuries for the technicians.



## ■ 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.

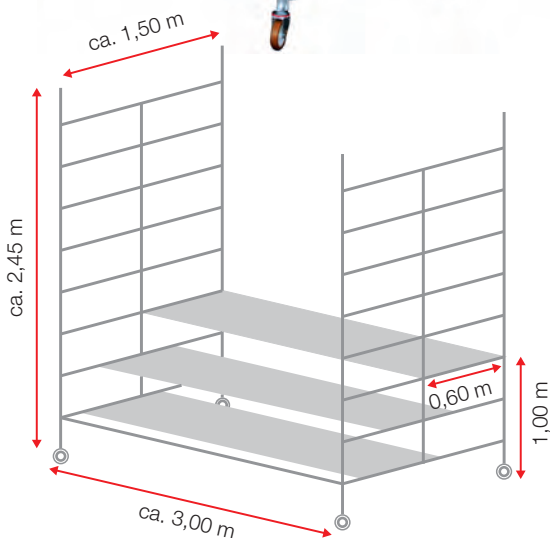
Assembly and disassembly of the scaffold is quick and easy to handle without the use of tools. The maximum weight of a single part is of only 24 kg, so that it can be done completely by one person.

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
- TÜV approved, load capacity 200 kg/m<sup>2</sup> (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



## ■ 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



■ **WPRO6-3IN1-D**

**WRD PRO6 System 3-in-1, Deluxe Kit**



This is the latest all-in-one solution from WRD Glass Tools for the removal, transportation and installation of bonded vehicle glasses. Each of the three vacuum pump suction lifters has a different configuration, which makes this multifunctional tool kit extremely versatile. This is probably the most compact and professional tools solution for the up-to-date windscreen removal with cutting line and cordless drill (similar to the famous SPIDER removal system) and the back-friendly installation of bonded windscreens by only one person. At the same time the suction lifters can be used for the safe handling and transportation of all glasses.

Scope of delivery as shown on picture!

■ **WPRO6-INS4**

**WRD PRO6 Installation System with 4 suction lifters**



Kit contains:

- 4 vacuum pump suction lifters WPRO6-B
- 1 extended arm WPRO6-EA
- 1 double hook kit WPRO6-DH
- 1 tool tote WPRO6-TT
- 1 instruction manual





The installation system from the WRDglass Tools PRO6 series allows simple installation of windshields by just one person. The ingenious system is suitable for car and van windshields and allows windshields to be fitted to almost any model of vehicle. This also includes severely curved windshields, or those covered by car body parts.

The system is uniquely compact with 4 pump siphons and three system accessories. This makes it the perfect mobile solution for one-man installation - both as a mobile service or in the workshop.

*quicklink to the  
product video*



# POWER PUSH



7

Auto Glass Installation

■ APP-5420



## **Power Push Cordless Caulking Gun 20 V for 310 ml cartridges and sachets up to 400 ml**

- short 400 ml clear barrel for sausage packs
- Incredibly high squeezing pressure of 4700 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 2.28 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, nonskid 2-component handle
- Delivered with one 20 V Li-Ion battery pack (2.0 Ah) incl. 30 min. quick charger



■ APP-5620



**Power Push Cordless Caulking Gun 20 V  
for 310 ml cartridges and sachets up to 600 ml**

- long 600 ml clear barrel for sausage packs
- Incredibly high squeezing pressure of 4700 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 2.28 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, nonskid 2-component handle
- Delivered with one 20 V Li-Ion battery pack (2.0 Ah) incl. 30 min. quick charger

■ APP-5420-URS



**Conversion Kit 600 ml for APP-5420**

With this conversion kit you can convert your Power Push caulking gun APP-5420 without effort into a caulking gun with 600 ml clear barrel.

The converted caulking gun is equal to our item number APP-5620. The kit includes all necessary parts and the tool can be rebuilt at any time.



■ **APP-5420-LG** Power Push Quick Charger 20 V  
for APP-5420 / APP-5620



■ **APP-5420-BA** Power Push Adapter for sachets  
for APP-5420 / APP-5620



■ **BP-5420** Power Push Li-Ion Battery 20 V (2.0 Ah)  
for APP-5420 / APP-5620



■ **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)
- 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-KFT Milwaukee Cordless Caulking Gun 18 V for 310 ml cartridges and sachets up to 400 ml with clear 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 due to the transparent barrel
- No dripping of sealant thanks to electronic rack release function after disengaging the trigger
- Rack disengages automatically for fast reloading
- Ergonomically shaped, nonskid 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)
- 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 310 ml cartridges and sachets up to 600 ml**

- 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)
- 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



■ **BP-180**

**Milwaukee Li-Ion Battery 18 V (1.5 Ah)  
for PCG-180 /-F /-KF /-KFT**



■ **PBA-1827**

**Milwaukee Quick Charger (30 min.)  
for PCG-180 /-F /-KF /-KFT**



■ **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.

■ **AKP-420**



**Cox Cordless Caulking Gun Easipower Plus 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 2500 N
- Variable speed trigger for controlled application
- Vmax restriction with control dial
- Remaining content easily visible by the position of the rack
- Soft touch grip and rubber pads to protect the tool
- No dripping of sealant thanks to electronic rack release function after disengaging the trigger
- Weight (power tool incl. battery): 1.7 kg
- Delivered with one 10.8 V, 1.5 Ah Li-Ion battery pack
- Cox 30-Min. quick charger included

■ **AKP-620**



**Cox Cordless Caulking Gun Easipower Plus 10.8 V  
for cartridges and sachets up to 600 ml**

- long 600 ml aluminium barrel for cartridge and sachet use
- powerful caulking gun with an ejection pressure of 2500 N
- Variable speed trigger for controlled application
- Vmax restriction with control dial
- Remaining content easily visible by the position of the rack
- Soft touch grip and rubber pads to protect the tool
- No dripping of sealant thanks to electronic rack release function after disengaging the trigger
- Weight (power tool incl. battery): 1.86 kg
- Delivered with one 10.8 V, 1.5 Ah Li-Ion battery pack
- Cox 30-Min. quick charger included





■ **BP-410P**

**Li-Ion Battery Pack 10.8 V, 1.5 Ah  
for AKP-420 / AKP-620**



■ **AKP-410-LG**

**Cox Battery Quick Charger 10.8 V  
for AKP-410/-610 and AKP-420/-620**



■ **AKP-075/L-01**

**Aluminium front cap for battery caulking guns**

The robust front cap is made of die casted aluminium and can be used for most caulking guns from COX, Metabo, Milwaukee and Panasonic.



■ **TM-TN-0022**

**Plastic front cap for caulking guns**

The robust front cap is made of plastic and can be used for most caulking guns from COX, Metabo, Milwaukee and Panasonic.

## 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-2420**

**Ni-MH Battery 2.4 V - 2.0 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.

## Alternative rechargeable batteries for Milwaukee caulking guns



### ■ BP-180-Z



#### Rechargeable Li-Ion Battery Pack 18 V (2.0 Ah) for PCG-180 /-F /-KF /-KFT & ANT-M18

- Type: Li-Ion
- Voltage: 18V
- Demand: 2000mAh / 36Wh
- Weight: 356 g



### ■ BP-180-ZHP



#### Rechargeable Li-Ion Battery Pack High Power 18 V (4.0 Ah) for PCG-180 /-F /-KF /-KFT & ANT-M18

- Type: Li-Ion
- Voltage: 18V
- Demand: 4000mAh / 72Wh
- Weight: 596 g



■ 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



■ TM-600

**COX Pneumatic Caulking Gun for cartridges and sachets from  
310ml up to 600ml**

Features of the compact Pneumatic Caulking Gun

- Very handy because of a perfect length and a ergonomic handle
- This gun is usable for cartridge 290-310ml even for sachet from 300-600ml
- Easy change from cartridge to sachet converting into 10 sec because of a special quick release system.





■ **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



■ **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





■ AV-435



### COX Manual Caulking Gun 35:1 for cartridges and sachets up to 400 ml

- the handy gun enables over the perfect trigger ratio to eject even high viscosity glass sealants
- the trigger ratio 35:1 facilitates ejection of high viscosity sealants compared to standard caulking guns
- 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!



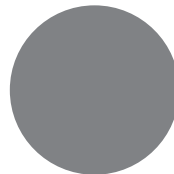
■ AGR-1105

**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.



Ø 11 mm

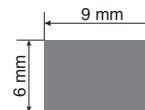
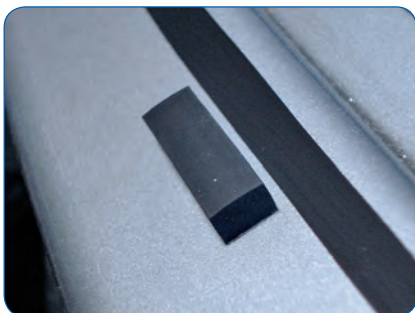


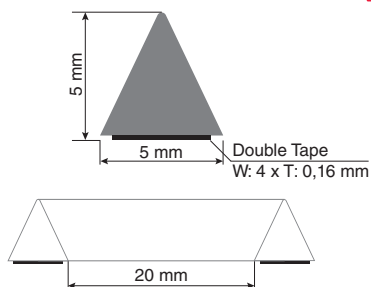
■ AGV-0906

**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.



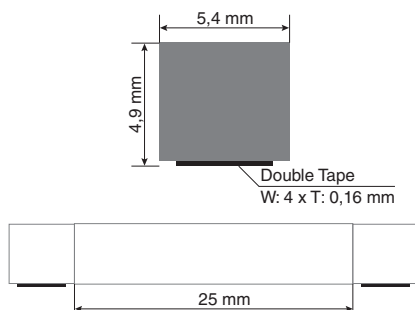
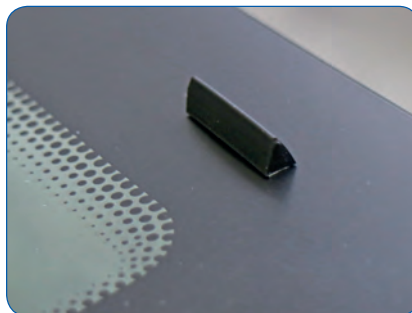


■ **AGD-0505**



**Rubber Spacers triangular (LxWxH: 20 x 5 x 5 mm), bag with 100 pieces**

Self-adhesive triangle 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.



■ **AGV-5449**



**Rubber Spacers rectangular (25 x 5,4 x 4,9 mm), bag with 100 pieces**

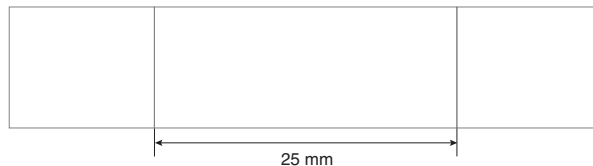
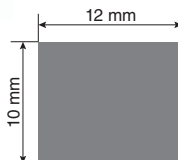
Self-adhesive rectangular rubber spacers. You can cut them according to your needs. They are a practically irreplaceable utility when installing windscreens. Thanks to the self-adhesive underside you can put them wherever you want.



■ **KB-1228**

**Rubber Spacers rectangular (LxWxH: 25 x 12 x 10 mm)  
bag with 50 pieces**

Rectangular rubber spacers.(no self-adhesive). You can cut them according to your needs. They are a practically irreplaceable utility when installing windscreens.

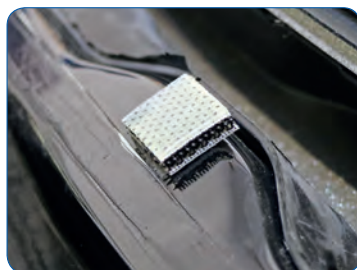


■ **AKV-2515**

**Spacer pads, rectangular,  
package at 8 pieces**

- dimensions (LxWxH): 25 x 15 x 5.4\* mm
- reclosable fastener with self-adhesive backside

\*height for double sided use



■ **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.



■ **TO-1437**

**Pinchweld Cleaning Brushes  
package at 10 pieces**

■ **TO-1437-100**

**Pinchweld Cleaning Brushes  
package at 100 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.



■ **KFB-230**

**Pinchweld Cleaning Brush, package at 2 pieces**

The solid brush made of galvanized steel with nylon bristles is well suitable for the removal of tenacious stain from the pinchweld. Also for the mobile service, wehn no vacuum cleaner is available, this brush does a good job.



■ PRS-118

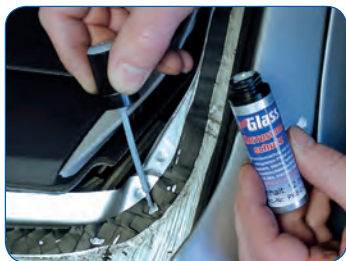
**ProGlass Rust Remove Pencil**



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.

■ DM-1094

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



Small head applicators with a wooden stick.

■ APM-100-B

**Mini-Applicators, lint-free, 125 mm long, 100 pieces per plastic bag**



These applicators with a smaller diameter should be used on all vehicles with a very narrow pinchweld. The small head facilitates a clean application without primer being visible after the installation.

Ø ca. 15 mm



ca. 125 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.

Ø ca. 22 mm



ca. 105 mm

■ **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.

Ø ca. 22 mm



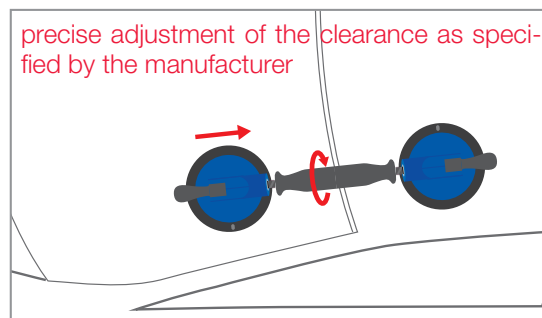
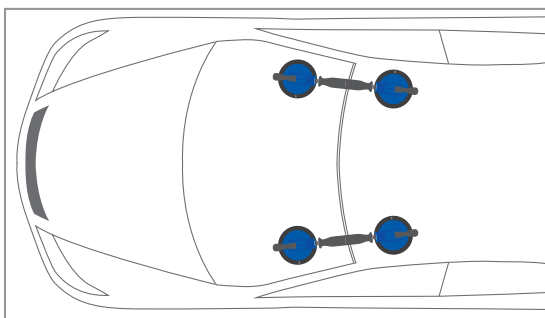
ca. 130 mm

■ **PML-145-1**

**ProGlass Installation Suction Lifter**

The installation suction lifter makes it possible to align a freshly installed glass with millimetre precision and to fix it securely until the save drive-away time is obtained.

- Precise alignment of the glass by simply twisting the handle
- Two bell-shaped rubber pads with large seal for easier handling and additional safety against coming off
- Pin-jointed heads bridge angles of max. 30°
- Load capacity for each lifter is 60 kg
- Heads made of shock-resistant plastic, handle made of powder-coated aluminium
- Diameter of suction cups 150 mm



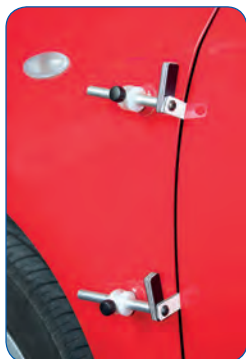
■ **FDS-700**

**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 115 mm rubber disks, connected with a foam covered steel cable (cable length 42 cm).



■ **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).





## ■ 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.



## ■ 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.









■ **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 driverside air bag (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 driverside air bag (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**

#### ■ 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).

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



■ **KTO-230**



**Cartridge Heater for 2 cartridges, 230V**

Powerful Cartridge Heater for warm-up two 310 ml cartridges. Guarantees an optimum processing of the PU during the cold season. Delivery without cartridges.

- Voltage: 230V
- Demand: up to 60° Degree
- Capacity: 2 x 310ml Cartridge
- Inside Dimension: Ø = 48 mm L = 220 mm
- Weight: 1475 g



■ **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.





■ **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.



■ **KSP-15110D-10** Cartridge Nozzle 360° rotatable, M15 x 1,5, 'cut to fit' model, Package of 10 pieces



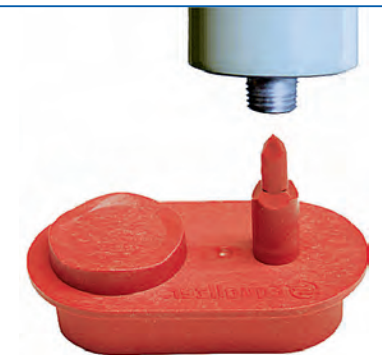
Cartridge nozzles 360° rotatable made of PE for 'cut to fit' use. For the application of auto glass adhesives in aluminium cartridges with standard thread M15 x 1.5. With separately available adaptor (ProGlass KBA-4915) also suitable for sachets.



■ **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





### ■ KSK-050



#### 2C adhesive with 50ml cartridge

2C adhesive long term bonding for the most plastic parts. Fast repair or installation off the following materials: EPDM, PP, PUR, RIM, RRIM, SMC, TPO, TPE und Fiberglas. 2C cartridge with 50 ml adhesive.

- 50 ml 2C
- 30-50 second processing time
- Hand-tight after 90 seconds
- Can be sanded after 5 min.
- Paintable after 30 min.



### ■ MD-085

### ■ MD-085-P



#### Static Mixer (single-use) for KSK-050, single

#### Static Mixer (single-use) for KSK-050, package of 10 pieces

- Static disposable mixing nozzle off plastic
- For 50 ml 2K cartridge
- Constant high-grade mixing ratio
- Bayonet fitting
- Nozzle length 65 mm
- Total length 85 mm



### ■ KTP-502K



#### Manual Caulking Gun 11:1 for 50 ml 2C cartridges

- The trigger ratio 11:1 facilitates ejection of the 2K material
- For 50 ml 2C cartridge
- Solid construction



■ **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 windcreens
- 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



■ **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).



### ■ 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.



■ **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.

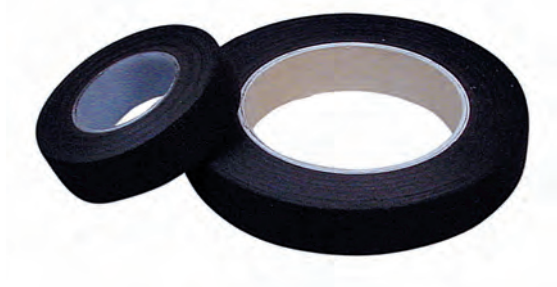


#### ■ TPB-1910

**Textile Protection Tape black**  
19 mm wide, reel at 10 m

#### ■ TPB-1925

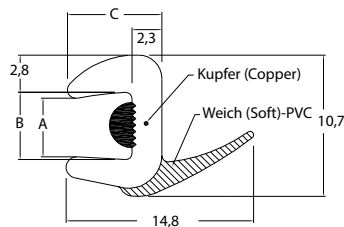
**Textile Protection Tape black**  
19 mm wide, reel at 25 m



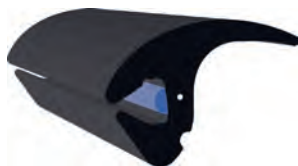
The textile protection tape is a multi-purpose adhesive tape. It can be used e.g. to treat creaking linings, plastic parts or cables. It is also very suitable to wrap cable loops.



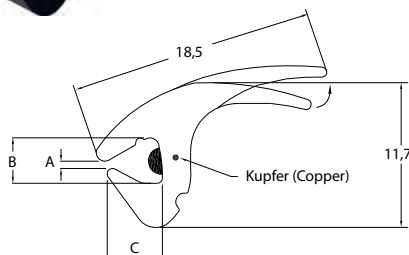
UP-100B



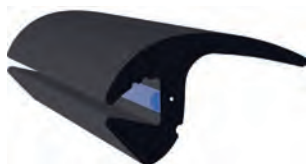
A = 4,5 mm ± 0,3 mm  
B = 5,2 mm ± 0,3 mm  
C = 7,5 mm ± 0,3 mm



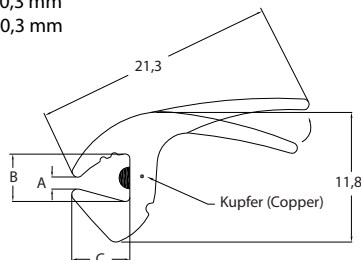
UP-105B



A = 2,5 mm ± 0,3 mm  
B = 3,7 mm ± 0,3 mm  
C = 4,5 mm ± 0,3 mm



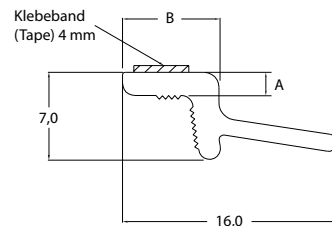
UP-107B



A = 2,5 mm ± 0,3 mm  
B = 4,2 mm ± 0,3 mm  
C = 5,1 mm ± 0,3 mm



UP-200



A = 1,7 mm ± 0,3 mm  
B = 7,1 mm ± 0,3 mm

■ **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

- 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 particular 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



■ **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-10 or TKS-100

■ **401**



**Loctite 401 Superglue  
tube at 3 g in blister pack**

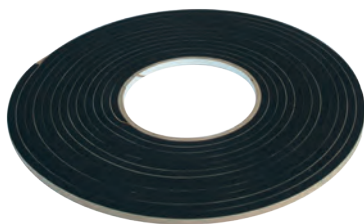
Loctite 401 is especially suitable for bonding rubber, plastic and metal as well as porous materials like polyurethane foam many vehicle mouldings are made of. This cyanoacrylate glue dries within seconds and forms a transparent, hard layer. It is therefore not applicable for flexible bondings.

■ **4850**



**Loctite 4850 Superglue  
tube at 5 g in blister pack**

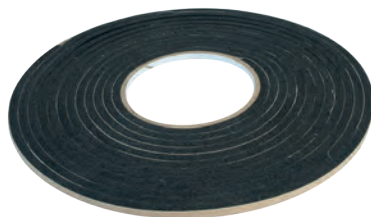
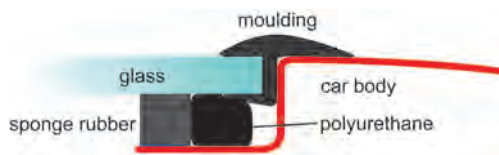
Loctite 4850 stays flexible after drying and is particularly applicable for bonding elastomers and rubbers as well as many types of plastic, metal and porous materials. This cyanoacrylate glue dries within seconds and forms a transparent and flexible bonding.



- **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.

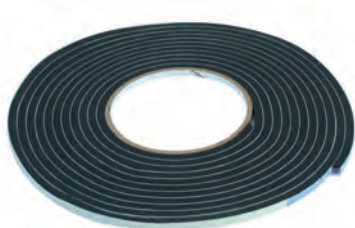
The high-quality neoprene sponge has a high density (small pores) and a rich dark colour.



- **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.



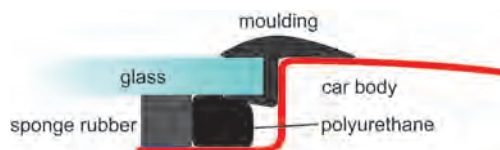
■ **TMF-5545-3**

**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.



■ **TMA-2012**

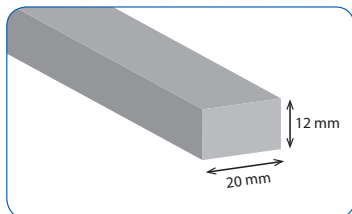


**Sponge Rubber Tape 20 x 12 mm self-adhesive (compressed), reel at 12 m**

This tape matches with the originally used sound-absorbing foam tapes between windscreen and dashboard. Therefore this endless foam tape on reel is ideal to replace the vehicle-specific sealing tapes, especially for all BMW series (1 series from 2004, 2 series from 2014, 3 series from 2005, 4 series from 2013, 5 series from 2003, 6 series from 2011, 7 series from 2008), various Audi series (A6 from 2011, A7 from 2010, A8 from 2004), as well as different Renault models (e. g. Espace, Mégane, Scénic).

Due to its good acoustic properties (reduction of low-frequency vibrations) it makes sense to use this self-adhesive, slowly expanding foam tape also on many more vehicles for sound insulation purposes.

Delivery pre-compressed, that is to say that the height on the reel is only about 2 mm. After unreeling/applying the tape will expand very slowly and reaches its total height of 12 mm only after approx. 20 minutes. The windscreen shall be fitted directly after applying the tape, so that the windscreen adhesive has gained enough stability when the tape has expanded completely.





- **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 unobstrusive look is desired, e.g. for antennas and sensors.



- **TAT-1910**



**Acrylic Tape black, 19 mm wide extra thin 0,25 mm, reel at 10 m**

The tape finds his application where is needed a very high adhesiveness but a very low interspace between the two glued parts.



- **TPC-1910**



**PET Tape transparent, 19 mm wide extra thin 0,2 mm, reel at 10 m**

The tape finds his application where is needed a very high adhesiveness but a very low interspace between the two glued parts.



- **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.



■ **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 windcreens against sliding. Thanks to the paper carrier the tape can be sectioned very easily and is though very strong.

■ **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 windcreens 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.





■ **STG-3850**

**Woven Adhesive Tape black, 38 mm wide  
reel at 50 m**

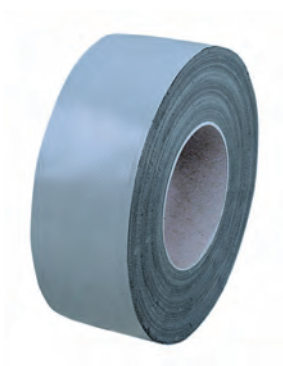
■ **STG-5050**

**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.



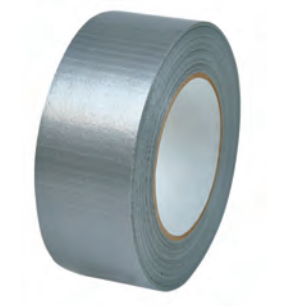
■ **GTG-5050**

**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.



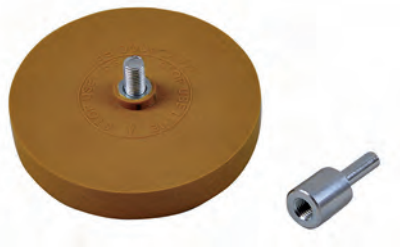
■ **ATG-5050**

**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.



■ **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.



■ **KSR-5025**

**Fastener for road charge units,  
10 strips at 5.0 cm**

- dimensions (WxH): 25 x 5.4\* mm
- reclosable fastener tape with self-adhesive backside

\*height for double sided use

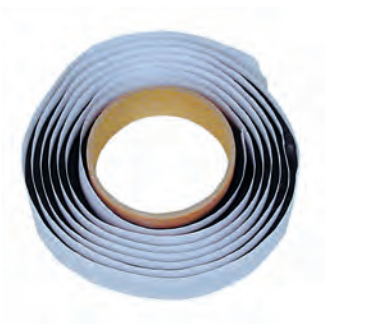


■ **KSX-200**

**Fastener for road charge units,  
roll at 2.0 m**

- dimensions (WxH): 25 x 5.4\* mm
- reclosable fastener tape with self-adhesive backside

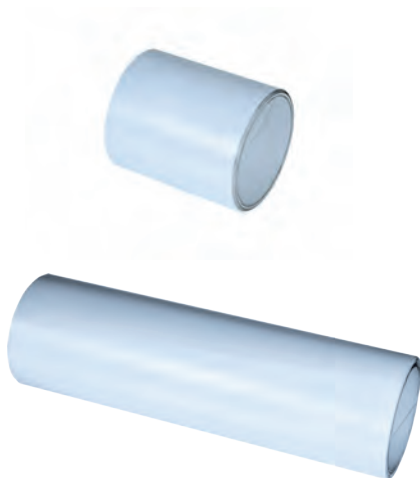
\*height for double sided use



■ **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.



■ **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**

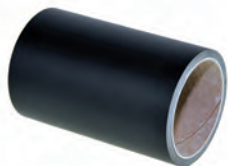
The self-adhesive clear polyurethane foil has a smooth and glossy surface. It has been developed as a stone-chipping protection for painted car body parts. Thanks to the extreme elongation the film can be applied wrinkle-free to strongly curved parts, e. g. like the housing of a side mirror.

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:  $130 \mu\text{m} = 0.13 \text{ mm}$ ) 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, all 91,5 cm 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:  $83 \mu\text{m} = 0.083 \text{ mm}$ ) 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).





■ **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

■ **GHS-140**

**Pointed Hook, with short shaft**

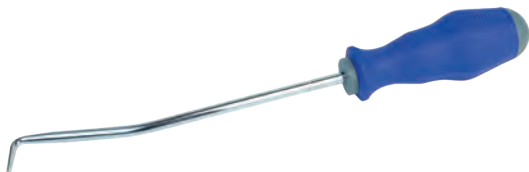
total length: 200 mm



■ **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



■ **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



■ **AHL-818**

**Equalizer Pointed Hook with long shaft**

Pointed hook with long shaft and extra-long hook.

total length: 320 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°





■ **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**

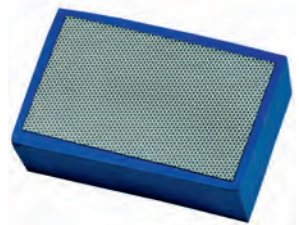
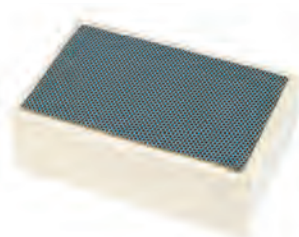
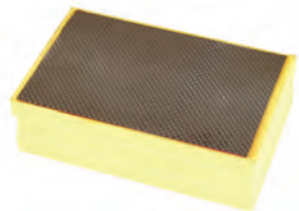
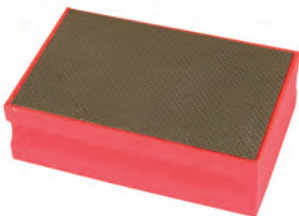
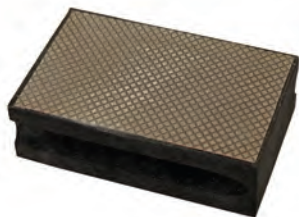
- heavy metal cutter
- narrow cutting head
- straight edge stand-off distance 2.5 mm
- cutting angle 135°
- handle made of aluminium with oil tank



■ **GCM-130**

**Glass Cutter with turnable head  
130 mm long**

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



■ **DSP-120**

**Diamond Sanding Pad, black  
grit 120**

■ **DSP-200**

**Diamond Sanding Pad, red  
grit 200**

■ **DSP-400**

**Diamond Sanding Pad, yellow  
grit 400**

■ **DSP-800**

**Diamond Sanding Pad, white  
grit 800**

■ **DSP-1000**

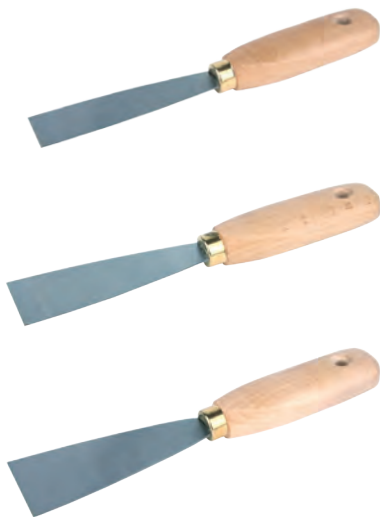
**Diamond Sanding Pad, blue  
grit 1000**



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.





■ **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

- **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).

- **LED-LIGHT**



#### **LED Penlight**

- Very lightness and handy LED Flashlight
- Sturdy aluminium body
- Weatherproof
- Perfect for garage and trade

- **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**).



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



■ **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.



■ **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.



■ **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

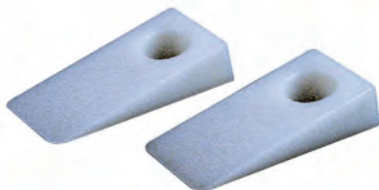


■ **KSK-4510**

**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



■ **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.





■ **ALS-185**



**All-Purpose Cutter, 185 mm long**

The handy formed All-Purpose Cutter allow trough his very smooth ser-rated blade a exactly and easy cut for the following material: Rubber, Plastic, Cardboard, Paper, Leather, Cable until 2.0 mm, Wire until 2.0 mm, metal sheet until 0.8 mm and much more. Solid approved long-living construction.



■ **KSC-019**

■ **KSC-025**



**Plastic Scraper, 19 mm wide**

**Plastic Scraper, 25 mm wide**

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

■ **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



■ **RHR-410**

**Stepstool, approx. 41 cm high, made of plastic**

- Plastic stepstool with spring loaded castors that retract when weight is applied.
- Tolerates heavy use without losing its look.
- dent-proof, scratch-proof, rust-proof
- Capacity: 150 kg





#### ■ 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



#### ■ 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.







■ 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      | UWG-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-40     | universal knife     |
| ZAW-090  | wiper arm puller                         | SD-22    | sawing wire, 22 m      | FSC-150  | pinchweld scraper      | XL-2      | long knife          |
| PL-140   | 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**

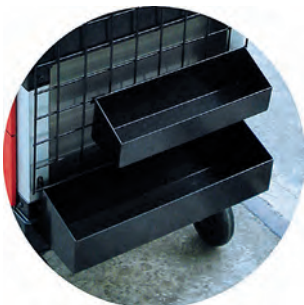
Plastic waste bin to hang-on, capacity 10 l.

■ **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**



## ■ WSK-31

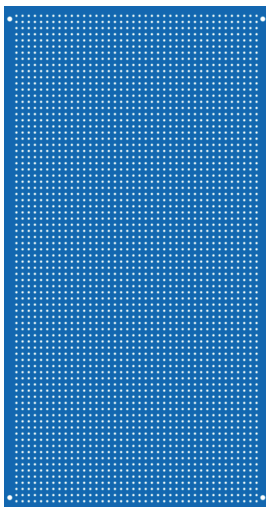
### Tool Case with 31 tools

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 UWG-3 UltraWiz Serrated Blade Assortment, in 3 parts
- 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





■ **IND-0609**

**INDECO Perforated Tool Board**  
960 x 480 mm, blue

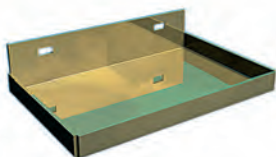
INDECO tool board made of 1.5 mm perforated steel sheet. The boards are powder-coated and therefore very sturdy and durable. Due to a fine matrix of holes (12 x 12 mm hole spacing, 4.2 mm hole diameter) the board can be arranged individually.



■ **IND-601796**

**INDECO Screw, single**

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



■ **IND-601099**

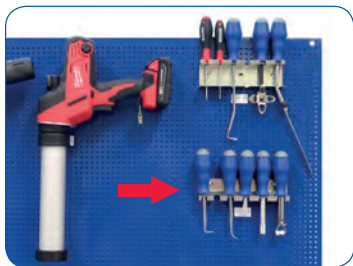
**Shelf, 250 x 100 x 15 mm**

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

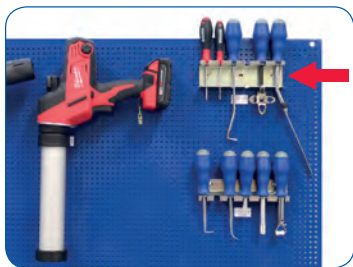
■ **IND-601201**

**Shelf 480 x 90 x 95 mm**

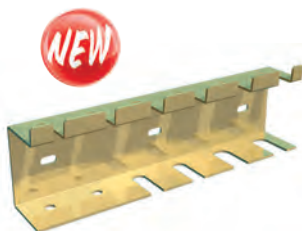




■ **IND-602030** Toolholder 200 x 56 mm



■ **IND-602060** Toolholder 189 x 60 mm



■ **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





■ **IND-603070** Holder round Ø70 mm



■ **IND-603080** Holder round Ø80 mm



■ **SLK-S-17080** Stock-Box-Set 5 pcs.  
Size: 170 x 100 x 80 mm Total length 520 mm

■ **SLK-17080** Stock-Box  
Size: 170 x 100 x 80 mm



- Variabel applicable
- Robust style
- Clear arrangement
- Stackable



■ **SLK-S-9050** Stock-Box-Set 5 pcs.  
Size: 90 x 100 x 50 mm Total length 520 mm

■ **SLK-235130** Stock-Box  
Size: 235 x 160 x 130 mm



- Variabel applicable
- Robust style
- Clear arrangement
- Stackable

■ **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



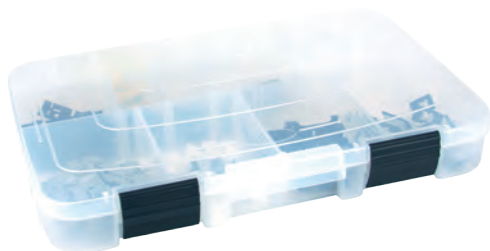
■ **CKM-021**

**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.



■ **CKM-007**

**Small parts storage box with 7 compartments**

165 x 112 x 31 mm

delivered empty, without content



■ 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





■ **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 100 kg.



■ **WZK-7749-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 two further boxes 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 100 kg.

Delivery without content.





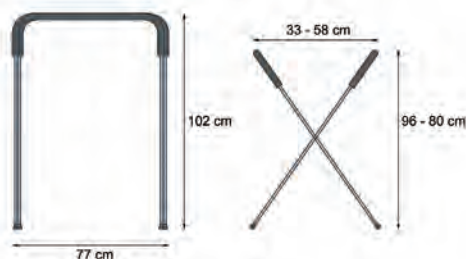




■ **EWS-620**

**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**

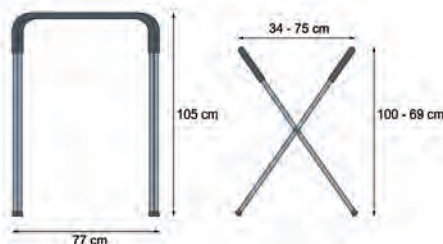
■ **HWS-680**



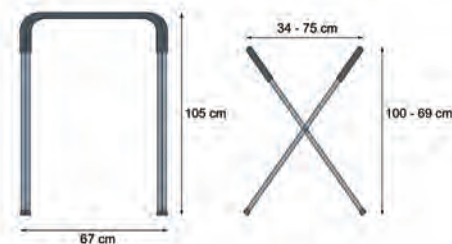
**ProGlass Windscreen Trestle Heavy Duty**

**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)



HWS-760



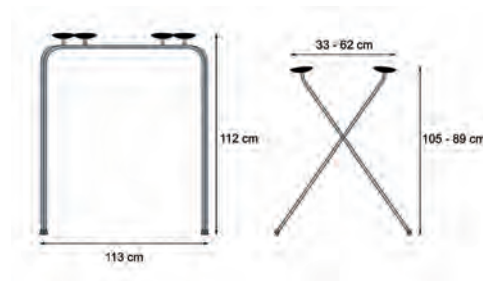
HWS-680

- SWS-580
- SWS-580-01

## Windscreen Trestle Standard

### 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



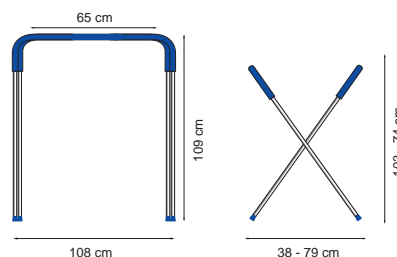
SWS-580-01

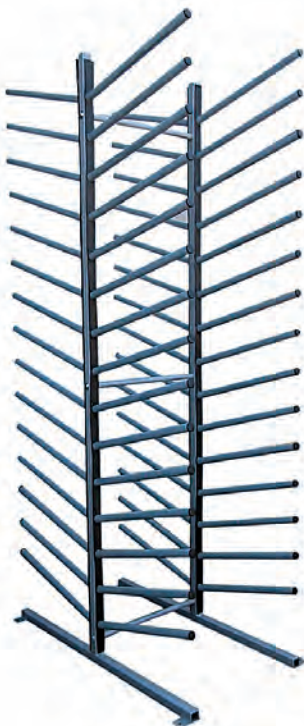
- NWS-1080



## ProGlass Windscreen Trestle Heavy Duty for commercial vehicles and trucks

- 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 different sizes of glasses
- extra large frame length for tall and heavy 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

■ **SRE-015**

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

■ **SRD-030**

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





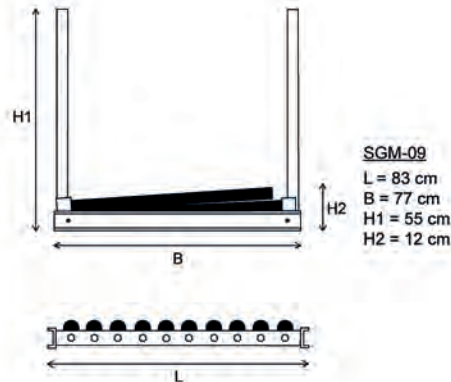
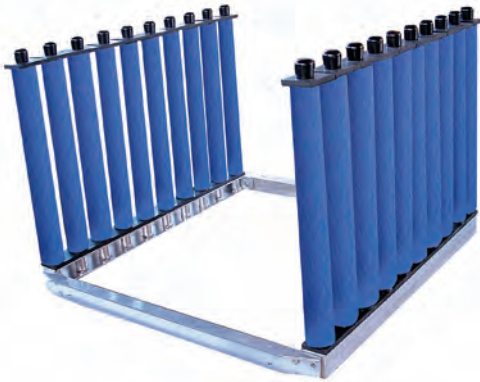
■ **SGM-05**

■ **SGM-09**

**ProGlass Glass Rack with 5 compartments, collapsible**

**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 concave 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 concave 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



### ■ HRS-100

#### ProGlass Adhesive Agent For Suction Cups can at 100 ml



It highly degreases 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.

■ **DSA-125-1**

**3-Cup Suction Lifter**



- Extreme secure because of three stand-alone suction pads.
- Very robust Aluminium housing
- Diameter suction pad 123 mm
- load capacity 100 kg



■ **SHE-070**

**Hand-held Suction Lifter Ø 70 mm, load capacity 8 kg**

The vacuum lifter with pistol grip and one-hand locking handle is especially suitable for exchanging mirror glasses as well as for setting small quarter glasses. To release the vacuum push the grey-coloured release button.



### ■ 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
- load capacity for each single lifter is 60 kg

### ■ 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!

- concave 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 with curved suction cup for heavy glasses single, in plastic case**

- concave rubber pad (Ø 200 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 80 kg



■ **SHP-230-1**

**Vacuum Lifter for heavy glasses single, in plastic case**

- large rubber pad (Ø 230 mm) with multiple-seal lip for optimum hold, also on slightly 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







### ■ SHV-125-1

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

- Particularly flexible concave 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 place it on the glass



2 press it down



3 done!



4 pull lever to release



### ■ 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



■ **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.



■ **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



- WSR-300
- WSR-300-1



## Automated Windscreen Repair System, battery powered

### Pressure / Vacuum Unit TERMINATOR, computer-controlled repair unit

The heart of the system is the Terminator® - a computer-controlled pressure/vacuum unit, which can be used anywhere with its rechargeable battery power supply.

This innovative laminate glass repair system allows the installer to carry out the highest quality repairs to all stone damages, after just a short training session. After applying and filling the injector unit, the Terminator® completes the repair, i.e. injects the repair resin into the damaged area using targeted cycles of pressure and vacuum, without any further intervention from the operator. **This gives perfect repair results every time!**

Combined with the renowned ProGlass injector unit, you'll get an extremely user-friendly system. After filling the resin chamber, the Terminator® is connected to the injector unit via a flexible hose. Select the right program on the device (star, bullseye, or express) and start the repair process. **The pressure/vacuum unit carries out the process independently** and gives the installer an audible and visual signal when the program is finished. Then you take the injector unit off and the repair is hardened and polished as normal with epoxy resin.

The ingenious process is based on more than 20 years of experience in laminate glass repair and delivers optimal filling of damaged areas without air pockets. This raises the quality of your repairs and reduces the effort involved at the same time. Even an inexperienced installer can obtain perfect results with this innovative repair system.







#### **WSR-300 kit contains:**

- Automatically Processor battery-operated (WSR-300-1)
- ProGlass Repair Fixture (WSR-150-1N)
- Resin Chamber small, 3/16 inch (WSR-150-2N)
- Connection Hose (WSR-300-3)
- Inspection Mirror with Sucker (MC-500)
- UV Lamp 8W, 12V (UVA-300)
- Cordless Mini Drill 3.6V (AM-360)
- Carbide Probe (CP-5040)
- Cracker (CRK-109)
- Pen Light (PL-140) batteries included
- Lighter, childproof (FZ-8326)
- 1 Repair Resin, 15 ml (VR-515)
- 1 Pit Refiller Resin, 15 ml (VR-415)
- 1 Glass Repair Polish, 25 ml (SP-025)
- Accessory Box contains:
  - 3 Syringes (1942)
  - 3 Cannulas (2496)
  - 20 Mylar Squares (MR-300)
  - 10 Scraper Blades (RK-10)
  - 5 Injector O-seals 3/16 inch (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 1,0 mm (KMK-110-1)
  - 1 Carbide Drill Bit, round 1,2 mm (KMK-120-1)
  - Grinding and Polishing Kit, 12 pieces (SPS-012)
  - Bull's-Eye Maker (SSK-790)
- Dome Magnifier (SL-015)
- Detailed instruction manual
- Advertising poster (actually only for A, CH, D) (WSR-150-P)
- Rugged Plastic Case 575 x 472 x 206 mm with rigid-foam lining

#### **WSR-300-1 kit contains:**

- Pressure / Vacuum Unit Terminator (R)
- Li-Ion Battery 22.2 V / 2.7 Ah (WSR-300-1-BA)
- Charger (WSR-300-1-LG)

**An extension to your existing ProGlass windscreen repair system WSR-150-A / WSR-150-N**



■ **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
- detailed instruction manual included



*quicklink to the  
product video*







**Steinschlagschaden?**  
**Kostenlose\* Reparatur HIER!!!**

\* die Teilhaskoversicherung übernimmt die Kosten der Reparatur in der Regel in voller Höhe - trotz vereinbartem Selbstbehalt

Die meisten Steinschlagschäden an Windschutzscheiben sind reparabel. Sprechen Sie mit uns darüber!

Wir informieren Sie gerne zu den technischen Möglichkeiten und den Vorgaben und Einschränkungen des Gesetzgebers.

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**WSR-150-P**

#### **Kit contains:**

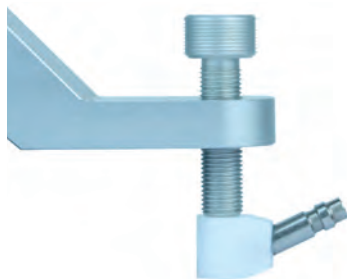
- ProGlass repair fixture (WSR-150-1N)
- resin chamber small, 3/16" (WSR-150-2N)
- connection hose (WSR-150-3)
- pressure/vacuum pump (WSR-150-5)
- inspection mirror with suction cup (MC-500)
- UV lamp 8W, 230V/50Hz (UVN-300)  
 or UV lamp 8W, 12V (UVA-300)
- cordless mini drill 3.6V (AM-360)
- carbide probe (CP-5040)
- cracker (CRK-109)
- Penlight (PL-140) 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)
- detailed instruction manual
- advertising poster (actually only for A, CH, D)
- rugged, foam lined plastic case  
 500 x 420 x 125 mm



■ **WSR-150-1N ProGlass Repair Fixture (without resin chamber!)**

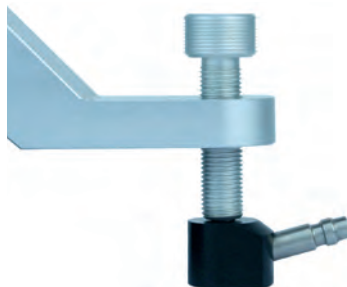
The 125 mm big sucker of the fixture is mounted to the glass securely by pushing the pump plunger only a few times (optical control through red safety ring on the pump). The solid light alloy arm is movable and swivelling so that the resin chamber can be adjusted over the impact point easily and very 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 / Total length: 96 cm**

■ **WSR-300-3**

**Connection Hose for WSR-300 / Total length: 166 mm**



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 / 300  
sufficient for at least 50 repairs**



Kit contains:

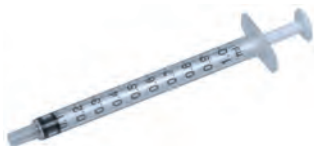
- 2 repair resins (item no. VR-515)
- 1 pit filler resin (item no. VR-415)
- 2 injector seals (like item no. DR-475)
- 10 scraper blades (item no. RK-10)
- 50 mylar squares (like item no. MR-300)
- 4 syringes (item no. 1942)
- 2 cannulas (item no. 2496)



■ **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 / WSR-300 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 / WSR-300 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 stationary 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.

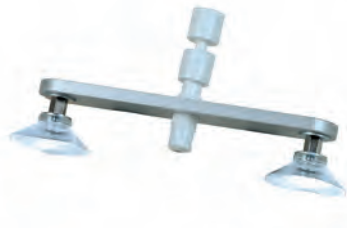
In this system the pressure and vacuum needed to perform a repair is produced by screwing the plastic injector's piston in and out. The simple construction of the whole system ensures a safe and easy operation. Thanks to the high-quality and extremely thin ProGlass repair resin even finest cracks can 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 ([PL-140](#)), 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-KIT

#### Repair Resin with Injector

Kit consisting of one bottle with 5 ml repair resin ExtraPlus and one plastic injector.



### ■ 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!



### ■ INJ-007-DI

#### Seal for INJ-M14-F Injector Ø 7.0 mm, package at 5



Suitable for all injector with attached inside dimension:

- Length: 17,0 mm
- Diameter: 7,0 mm
- Plunger Diameter: 4,5 mm

## Windscreen Repair Resins

Our resins for laminated glass repair can be used with all repair systems on the market. They cure by radiation with UV light with a wave length of 360 - 380 nm. 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**

**Equalizer Rock Star Roadie 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 occasionally use (e. g. for dealers of used cars).



Kit contains:

- 1 injectors (INJ-581)
- 1 connection hoses (H-538)
- 1 UV battery lamp (batteries included)
- 1 flow regulators
- 1 cure guard
- 1 carbide probe
- 20 pedestals (like P-536)
- 20 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 Glass Repair Polish (SP-025)
- 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



■ **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.

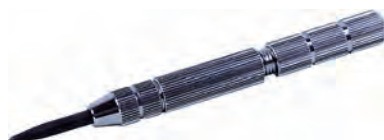


■ **CP-5040**

### **Carbide Probe**

Probe with carbide tip to clean the impact point and to remove loose glass particles before repairing a stone chip.

Total length: 150 mm



■ **CRK-109**

### **Cracker**

This small cracker is appropriate to easen repairings 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.

Total length: 110 mm



■ **SSK-790**

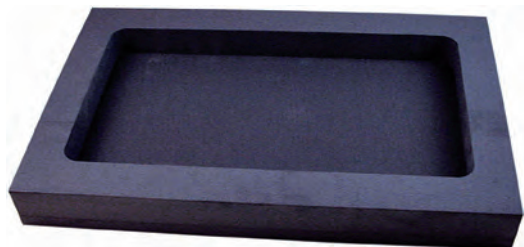
### **Bull's Eye Maker**

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

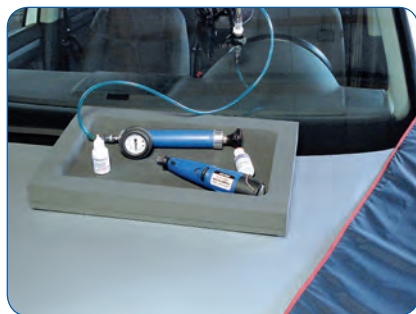
### Tool Tray made of rigid foam



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!



■ **AM-360**

**Cordless Mini Drill 3,6 V with charging unit, collet set and polishing set**



- precision tool for drilling stone chips
- also suitable for grinding and polishing
- handy and powerful
- gradational adjustable from 5,000 - 18,000 r.p.m.
- 4 collets for the use of different tools
- integrated 3,6V Li-Ion battery pack
- tool weight 0.235 kg
- charging cable with interchangeable plugs (EU, GB, US, AUS)

■ **AM-360-FPS**

**Polishing Kit, in 6 parts for mini drill**



Various felt polishing heads to gloss the surface of windscreen repairs.

■ **AM-360-1**

**Collets Kit, in 3 parts (for AM-360) suitable for all mini drills with chuck of Ø 5.0 mm**



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 and 3.2 mm.

■ **AM-360-LG**

**Charger 3,6 V for AM-360 (Li-ion)**



technical data:

- input: 110-230V/50Hz AC
- output: 12V/500mA DC
- with interchangeable plugs (EU, GB, USA, AUS)



#### ■ 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.



#### ■ 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.



#### ■ MRH-055

#### Installation/Repair Hammer



Thanks to its two-sided head (1 x rubber cap, 1 x metal cap) this small and very handy tool can be used for various applications.

Total length: approx. 175 mm

Total weight: approx. 55 g





■ **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).

Wavelength 315-400 nm



■ **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).

Wavelength 315-400 nm



■ **LR-150**

**Replacement Tube 4W BLB  
for UVB-150 and UVB-150T**

dimensions:

- length: 133 mm
- diameter: 16 mm
- wavelength 315-400 nm



■ **LRW-150**

**Replacement Tube 4W BL  
for UVB-150 / UVB-150T**

dimensions:

- length: 133 mm
- diameter: 16 mm
- wavelength 315-400 nm



■ **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\*
- total length of the lamp: 370 mm
- wavelength 370 nm

■ **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\*
- total length of the lamp: 370 mm
- wavelength 370 nm

**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
- wavelength 370 nm

\*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\*
- total length of the lamp: 450 mm
- wavelength 370 nm

■ **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\*
- total length of the lamp: 450 mm
- wavelength 370 nm

**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\*
- total length of the lamp: 450 mm
- wavelength 370 nm

**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
- wavelength 370 nm

\*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

■ **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**

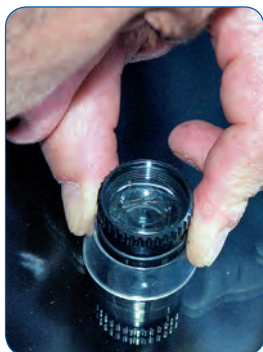
**Pen Microscope 25x**



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).

■ **SPF-050-D** Windscreen Plaster, German package at 50 pieces

■ **SPF-050-E** Windscreen Plaster, English package at 50 pieces

■ **SPF-050-F** Windscreen Plaster, French package at 50 pieces



The windscreen plaster 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 plaster 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 Plaster, designed individually

Starting from 1.000 pieces we print your individually designed business card with windscreen plaster!

The front side of the business card (printed on 350g offset paper, size 85 x 55 mm) contains some general information about windscreen repair and a peelable windscreen plaster (Ø 34 mm) with your company name and phone number.

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 PDF format. If you provide printable PDF files from your graphic designer you can also individualize the front side. For this purpose please ask for our layout guidelines.



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. Please check the scheduled dates on our website (under item SPF-050-IND). For bigger quantities or special designs we will be happy to submit you an individual quote.



■ GPF-250

■ GP-1000

■ GP-5000



GPF-250

GP-1000



GP-5000

**ProGlass Glass Polish**  
bottle at 250 ml, liquid polishing compound

**ProGlass Glass Polish**  
box at 1 kg polishing powder, to mix with water  
(makes approx. 1,660 ml liquid polishing compound)

**ProGlass Glass Polish**  
bucket at 5 kg polishing powder, to mix with water  
(makes approx. 8,330 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



■ XP-050

**QUIXX Scratch Remover**  
tube at 50 g, for acrylic and plexiglass

QUIXX 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!





■ **WPO-14-25E** **Fein Angle Polisher 230V / 1200 W**



- Ideal speed range with infinitely variable speed control for professional surface processing on vehicles.
- Maximum speed stability at any load over the full setting range thanks to mechanical gear reduction in conjunction with the FEIN high-power motor.

Kit contains:

- Fein Angle Polisher
- Support plate with Velcro attachment, Ø 125 mm
- Polishing sponge, orange, Ø 150 mm



■ **PSW-150**



**FEIN Polishing Sponge, white, Ø 150 mm with velcro black**

Fine-pored soft polishing sponge recommended for strongly curved glasses. 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.



■ **PSO-150**



**FEIN Polishing Sponge, orange, Ø 150 mm with velcro black**

Fine-pored hard polishing sponge for high stock removal rate. 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**

**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.

■ **FPS-128**

**Felt Polishing Disc 100 x 28 mm**

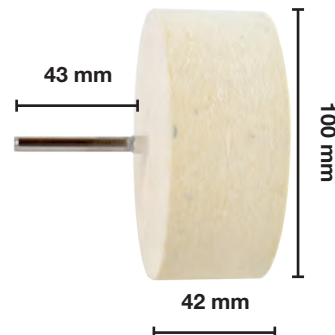
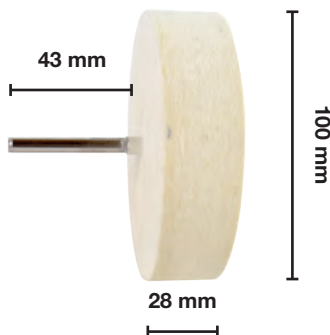
■ **FPS-142**

**Felt Polishing Disc 100 x 42 mm**



With this, through its density and purity, high-grade polishing wheel you are able to remove scratches, marks and staining from any glass surface.

We advise to use in combination with glass polish to achieve more positive results. The polishing wheel stands out due to a very low abrasion which results in a very long service life. To be used with an electrical or cordless drill (speed up to 3000 rpm).







- SAS-340
- SAS-340-B



**Sehen Ihre Scheinwerfer so aus?**  
**schlechte Sicht bei Nacht - erhöhtes Sicherheitsrisiko**  
**unansehnliche Optik - kein TÜV!!!**

**Wir bieten eine günstige Lösung!**

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

- **wieder optimale Sicht**
- **mehr Fahrsicherheit**
- **verbesserte Optik**
- **kostengünstige & schnelle Methode**



## Headlight Restoration Kit Full Set in plastic case

## Headlight Restoration Kit Starter Set without 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





### **SAS-340 Kit contains:**

- 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 Kit contains:**

- 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)

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.



■ **STS-076**

**Interface Pad soft, Ø 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 500, Ø 75mm, package at 10 pieces**



■ **SLS-800**

**Sanding Disc Grit 800, 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.

No polish for car finishes - do not use on painted surfaces!

Does not contain siloxane!



■ **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.

No polish for car finishes - do not use on painted surfaces!

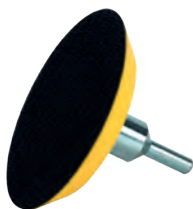
Contains siloxane (4-12%).



■ **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 Ø 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.





- **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**

Pleasing 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**
- **MXH-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 pleasing 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**

■ **LHX-110**

**Winter Knitted Gloves, size M, per pair**

**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**

■ **NHL-109**

■ **NHX-110**

**Nitrile Gloves, size M, per pair**

**Nitrile Gloves, size L, per pair**

**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**
- **SHL-109**
- **SHX-110**

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

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

**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





■ **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



■ **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



■ **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.



### **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.

■ **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





## ■ MHS-180

### ProGlass Bonnet Protector 180 x 65 cm

A workshop cover for bonnets and rear lids with magnetic fixing.

The evenly rounded side of this cushioned cover protects the bonnet's edge as well as the neighbouring body area. Thanks to the integrated magnetic tapes the cover even stays in place when the bonnet is opened. By that the vehicle's body is protected in the best way and during the whole working process.

#### Advantages:

- no risk of scratching the painting
- quick and easy handling thanks to the integrated magnetic tapes
- 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
- 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)
- 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.

**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:**

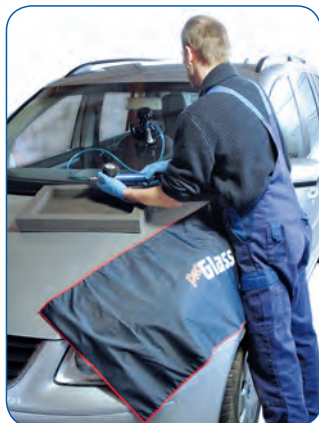
- with practical hanger loop for clean storage when not in use
- the fabric (Nylon 70D) is hard-wearing, persistent and water-repellent
- the reverse side is skidproof thanks to a soft PVC coating
- all materials are colour-fast and light-resistant
- the cover is fully washable
- high-quality manufacturing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







■ 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) we can offer all our workshop covers with your own logo print.

Please contact us for further details and we will provide you an individual quote adjusted to your needs!



■ TSP-292

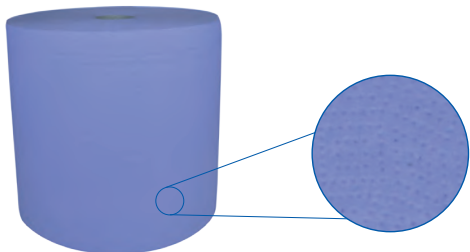
### Equalizer TightSpot Paint Protector set of 2 pieces

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.





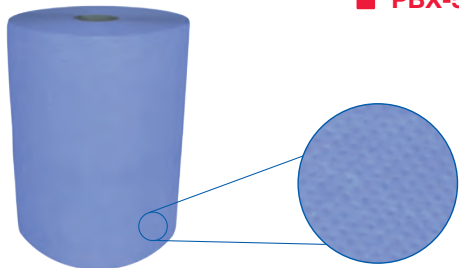
■ **PBM-336**



**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.

■ **MFT-3530**



**ProGlass Microfibre Cloth**  
**warp knitted, 35 x 30 cm**

Microfibre cloth in looped knitting style (warp knitted) for fast cleaning of light and heavy structured surfaces, like e. g. dashboards and linings. The cloth is also suitable for the cleaning of glass surfaces. Washable up to 90°C.

■ **GTU-4040**



**Glass Cloth made of microfibre,**  
**fine woven, 40 x 40 cm**

Smoothly knitted, small meshed cloth made of finest microfiber for effortless cleaning of all glass surfaces. Removes greasy contamination mostly with a single wipe. Washable up to 90°C.

■ **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.



■ **SFL-1000**

**Spray Bottle with standard sprayer  
capacity 1.0 litre**

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. Spray output: 1 ml  $\pm$  0,1 ml



■ **SFM-1000**

**Spray Bottle with professional sprayer  
capacity 1.0 litre**

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. The trigger head is extremely robust and long-lasting and has a big output. Spray output: 1.1 ml  $\pm$  0,2 ml



■ **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.





#### ■ 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 ergonomically 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.



#### ■ 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!

■ **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.

■ **ANT-M18**



**Milwaukee Wet / Dry Vacuum Cleaner 18 Volt**

- Built-in blower: provides 21 l/sec of air flow for maximum efficiency
- Wet/Dry using without filter exchange
- Stackable tool box design: for added portability and easier storage
- Flexible battery system: works with all Milwaukee® M18™ batteries (18V Cordless Caulking Gun)
- Supplied with washable filter, hose, crevice tool and utility nozzle
- Not usable for toxic and inflammable fluid
- HEPA rated 99.7 % high efficiency wet/dry filter: for fine dust collection
- **Attention!** Machine supplied without battery and charger.





### ■ **FSD-025L-SET** Fein Extractor Dustex 25 L with Accessory Set

Compact, powerful wet and dry dust extractor for connecting to power tools when working in the workshop and for assembly work, with accessory set FSD-25L-Z.

Technical data:

- Powerful turbine for 72 l/s volumetric flow and 253 mbar vacuum (240V)
- Low noise level of 67 dB (A).
- Large range thanks to 6 m power cable and 4 m suction hose.
- Large, 360° rotating castors for optimum manoeuvrability even in tight spaces.
- Tool collar with suction force regulation to set the suction power with ease.
- Auto start socket with switch-on delay to avoid power surges.
- Practical storage area with edge.
- Approval for dust class L.

### ■ **FSD-025L** Fein Extractor Dustex 25 L

Extractor with suction hose (length 4 m, Ø 35 mm), tool collar with suction force regulation, 1 Fleece filter bag and 1 Flat-fold filter cellulose.



### ■ **FSD-025L-Z** Fein Dustex 25 L Accessory Set

Kit contains:

- 2 suction pipes (metal)
- 1 combi nozzle with interchangeable inserts
- 1 groove nozzle
- 1 suction brush
- 1 elbow



### ■ **FDB-025L** Filter bag for DUSTEX 25 L, pack of 5 pieces

■ **OMB-0011**

**Ombrello Glass Treatment  
Applicator for single use**



Ombrello glass treatment stands for 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 the 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 nanotechnology, 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-PC-200**

**Ombrello PreCleaner**



The use of Ombrello Professional PreCleaner substantially improves the adhesion of the Ombrello coating to the glass. Because the preparation of the glass surface is the essential step for the endurance of Ombrello Glass Treatment.

The specially developed PreCleaner is preparing the surface in an optimum way and, at the same time, offers a visible control about the cleanliness of the glass surface. The PreCleaner removes all residue from environmental influences (organic pollution from exhaust fumes, tire abrasion, etc.) as well as wax or other car maintenance products. The result is an improved endurance of the Ombrello coating.

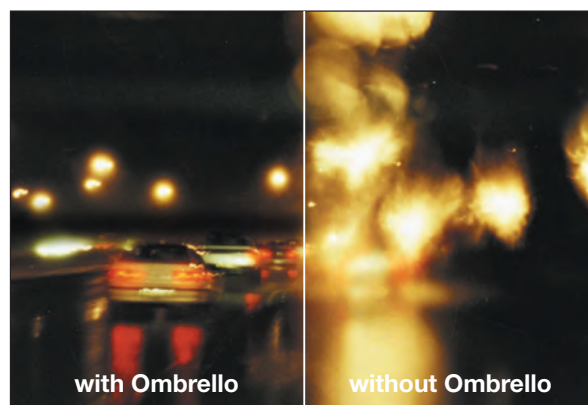
**Application**

- Clean the glass area with a glass cleaner thoroughly from rough contamination.
- Shake the PreCleaner well before each use (approx. 2 min)!
- Pour a small quantity of PreCleaner on a soft cloth and wipe it over the glass surface (for optimum results, use an electric polisher with a cotton pad) until the liquid has build a milky, powdery slurry on the glass surface.
- Rinse with water and dry thoroughly.



- **OMB-012P** Ombrello Glass Treatment Professional Pack at 12 pieces in carton
- **OMB-024P** Ombrello Glass Treatment Professional Pack at 24 applicators (bulk packaged)
- **OMB-050P** Ombrello Glass Treatment Professional Pack at 50 applicators (bulk packaged)
- **OMB-100P** Ombrello Glass Treatment Professional Pack at 100 applicators (bulk packaged)
- **OMB-250P** Ombrello Glass Treatment Professional Pack at 250 applicators (bulk packaged)
- **OMB-500P** Ombrello Glass Treatment Professional Pack at 500 applicators (bulk packaged)

Especially for the professional application the Ombrello glass treatment is also available in a box at 12 pieces or, in bigger volumes (from 24 to 500 pieces), as bulk packaged applicators.





■ **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.



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## Room for Your Notes

## Room for Your Notes





## Room for Your Notes

## 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 July 2016 (updated version on our website [www.proglass.de](http://www.proglass.de) or upon request)