



B&S
QUALITY MADE

WORKSHOP 2020 | 21

Focus on spectacle health



Dear Opticians,

You have in your hands our new B&S 2020/21 workshop catalogue, which is intended to accompany you in your work over the next two years. We have produced it under the motto **“Focus on spectacles health”**. **“Spectacles health”** – a term that you won’t find in the dictionary, and yet the creation of this word – we think – is justified. Because healthy, functioning spectacles that are exactly matched to the wearer are the **alpha and omega** of good vision and go with wellbeing, quality of life and comfort.

You provide your customers with your grasp of the subject, manual skills and technical expertise. To help you do so we supply you with reliable diagnostic tools, professional developed instruments and precision tools and an array of small parts and consumables. The seven sections of our catalogue use a modern style and colour design to show you solutions to different problems. If for example you need to rework solder joints, you can find the right small tool in Section C: “Precision tools for complicated procedures”. If you wish to fill drill holes, you can find the right UV gel in Section E: “First aid measures”. In next to no time you’ll be able to successfully complete your operating procedure and restore the health of your patient’s spectacles..

To assist you we have expanded the **“Tips & Tricks”** column which explains to you complex procedures, double benefits and applications in a sequence of pictures. You can find the complete tutorials as video clips on our home page in the **“Service”** section: incidentally they’re also great for training apprentices.

Finally our **“Top Product”** series, which covers all sections, indicates selected items that can make your ordinary working day more efficient. Regardless of whether it’s actions for adjusting, cleaning and repairing spectacles or complicated procedures such as drilling, milling or soldering. We’ve even got the most unusual spare parts such as special screws or beta-titanium bridge supports in stock.

All in all resulting in a healthy vision for the benefit of your customers.

Your B&S-Team

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TIPS & TRICKS

Extend your know-how by detailed imaging of complicated work steps and applications



TOP PRODUCT

Selected articles for the efficient design of your working day in the optician's workshop

MACHINES

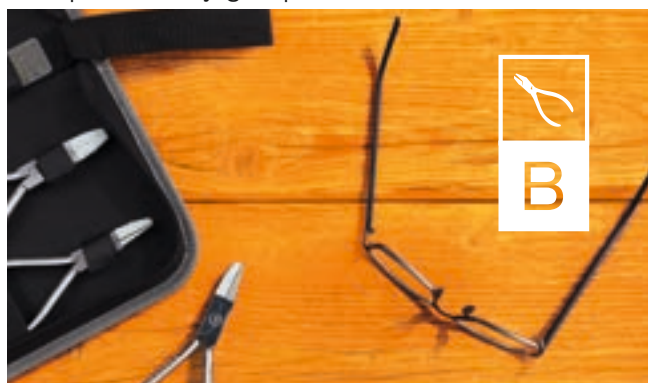
for prevention and treatment



- A 2 Digital Pupilometers
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- A 8 Ultrasonic Cleaning Devices
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PLIERS

with pliers every grasp fits



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- B 4 Overview: eLite-, Standard Pliers
- B 6 Inclination Pliers
- B 8 Holding Pliers
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- B 12 Tips & Tricks: Bending Pliers
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PRECISION TOOLS

for complicated procedures



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- D 22 Lens Clock and Thickness Gauge
- D 24 Caliper Gauges
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for first aid measures



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- E 30 Polishing and Grinding Wax
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SPECTACLE FRAME PARTS

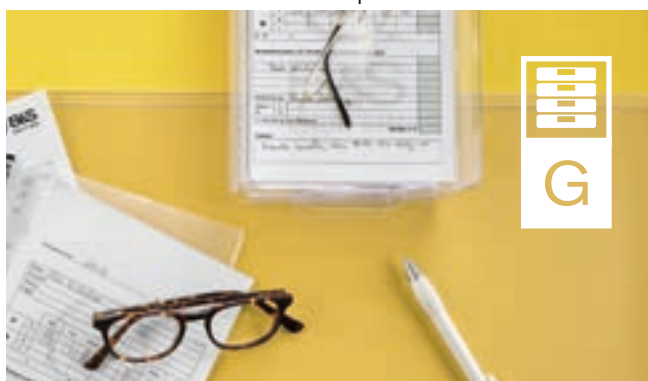
in exact dosage with targeted effect



- F 2 Overview: Nose Pads
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ORGANISING AIDS

for the effective treatment plan



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MACHINES

for prevention and treatment



- A 2 Digital Pupilometers
- A 6 Lensmeters
- A 8 Ultrasonic Cleaning Devices
- A 12 Frame Heaters
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- A 22 Diamond Hand Edgers
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Often copied, never matched!

Made in Japan, the PD meter's excellent workmanship, ergonomics and outstanding design make it an attractive product. Simple and easy to use, with a digital display, integrated CVD measurement and of course its excellent design is a prime example of the ideal combination of design and function. The Design PD meter will make your spectacle dispensing stand out twice as clearly.



B & S Design Pupillometer

The superb ergonomically designed PD measuring device from B & S, sits perfectly in the hand.

- Switch to select between monocular and binocular measurement
- Illuminated focal point ensures easy reading from the corneal reflection
- Large, easily readable LC display with simultaneous display of total and individual PD
- Switch to select between PD measurement and CVD measurement
- Continuous measurement of the PD
- Battery saving feature automatically switches off after 1 minute
- Enlargement switch for spectacle wearer

Technical data

Display:	LC display
Focusing:	Light circle
Measurement range	
Binocular:	46.0 to 82.0 mm in steps of 0.5 mm
Monocular:	23.0 to 41.0 mm in steps of 0.5 mm
Measuring distance can be selected from:	30, 35, 40, 50, 65 cm; 1.0, 2.0 m; ∞
Voltage supply:	4 x 1.5 V Micro (type AAA)
Size (w x h x d):	155 x 52 x 220 mm
Weight:	655 g incl. batteries

2385 00

36 month warranty!

C For spare parts contact your local distributor.



Pupilometer


Pupilometer with digital display for simple and precise measurement of the pupil distance.

- Switch to select between monocular and binocular measurement
- Illuminated focal point ensures easy reading from the corneal reflection
- Large, easily readable LC display with simultaneous display of total and individual PD
- Switch to select between PD measurement and CVD measurement
- Enlargement switch for spectacle wearer

Technical data	
Display:	LC display
Focusing:	Light circle
Measured range	
Binocular:	45.0 to 82.0 mm in steps of 0.5 mm
Monocular:	22.5 to 41.0 mm in steps of 0.5 mm
Measuring distance can be selected from:	30, 35, 40, 50, 65 cm; 1.0, 2.0 m; ∞
Voltage supply:	2 x 1.5 V Mignon (type AA)
Size (w x h x d):	166 x 63 x 221 mm
Weight:	680 g

2387 00

 **12 month warranty!**

 For **spare parts** contact your local distributor.





Automatic Lensmeter BS-4000 WF

- Hartmann Sensor technology
- LCD colour touch-screen
- Automatic measurement
- Automatic measuring of progressive lenses
- Measurement of the UV transmission and PD
- Contact lens mode
- Display of the resultant prism
- Built-in thermal printer

2357 10



12 month warranty!



For **spare parts** contact your local distributor.

Exclusive to B & S

Accessories for BS-4000 WF

Ink Cartridges

- For **special coated** and uncoated lenses
- High contrast during the centering and blocking process of lenses, especially for tinted lenses



White

2357 60 3 pieces



Printing Paper

- Roll width: 55 mm
- Roll diameter: 25 mm

2357 51 3 rolls

2357 52 10 rolls





Ocular Lensmeter

- Adjustment of the body angle
- Easy to handle
- Bright and clear visible measuring mark
- Internal reading
- Including prism compensator
- Marking system: with ink pad

Standard equipment:

- 1 ink pad, 1x box of ink, 1 dust cover

2355 20

 **12 month warranty!**



For **spare parts** contact your local distributor.



Accessories for Ocular Lensmeter

Ink for Ocular Lensmeter

2355 19

Technical Data for all Devices at a Glance

Technical data	2357 10 BS-4000 WF	2355 20 Ocular
Measuring range		
Sphere:	– 25 to + 25 dpt.	– 25 to + 25 dpt.
Cylinder:	– 10 to + 10 dpt.	– 25 to + 25 dpt.
Axis:	0° to 180°	0° to 180°
Addition:	0 to 10 dpt.	all in the measuring range
Prism:	0 to 15 Δ	0 to 20 Δ
Measuring units		
Diopters:	0.01/0.12/0.25 dpt.	0.125 dpt. to ± 5.0 dpt. 0.25 dpt. to ± 5.0 dpt.
Prism:	0.01/0.12/0.25 Δ	0.5 dpt. to ± 2.0 dpt. 1.0 dpt. to ± 2.0 dpt.
Prism display:	Cartesian and polar coordinates	Polar coordinates
Measurements		
Optical measuring light Ø 8 mm:	X	
Pupil distance 50 to 86 mm (steps 0.5 mm):	X	
UV transmission 0 to 100 % (375 nm):	X	
Measures standard lenses:	X	X
Measures bifocals:	X	X
Measures trifocals:	X	X
Measures progressive lenses:	X	
Measures contact lenses:	X	
Monitor display		
Colour touch-screen:	X	
External communication		
Serial interface RS-232C:	X	
General		
Thermal printer:	X	
Power:	25 W	35 W
Power usage per 10 min:	0.0042 kWh	0.0058 kWh
Voltage:	240 V	240 V
Size (w x h x d):	161 x 372 x 222 mm	150 x 450 x 280 mm
Weight:	5.5 kg	4.9 kg

OPTOSONIC Cleaning Devices

Professional unit “MADE IN GERMANY”

Optimized results

- Perfect cleaning by adapted 37 kHz technology
- Sweep function for optimum distribution of the sonic field in the tank
- Degas function for effective cleaning

Extensive equipment

- Cleaning tank made of corrosion resistant stainless steel – provides quick and efficient cleaning
- Stainless steel housing, extremely durable and easy to clean
- Noise reducing cover

Easy handling

- User-friendly, sealed operating controls
- Rotary switch for pre-selecting the cleaning time between 1 and 30 min
- LED function indicator for a quick overview

OPTOSONIC Silence “The Silent Classic”

- Exceptionally quiet when operating, ideal for the dispensing area
- Cleaning frequency 80 kHz
- Compact and robust unit with 0.8 l tank

2977 00

Technical data	
Tank (w x h x d):	190 x 60 x 85 mm
Tank capacity:	approx. 0.8 l
Frequency:	80 kHz
Power:	30 W
Power usage per 10 min:	0.005 kWh
Voltage:	230 V
Size (w x h x d):	206 x 178 x 116 mm
Weight:	2 kg
Available baskets:	2971 02, 2974 10

 36 month warranty!





OPTOSONIC “The Classic”

- Reliable device with 0.8 l tank

2974 00

36 month warranty!



For **spare parts** contact your local distributor.



OPTOSONIC “The Advanced”

- Comfortable device with 2.8 l tank
- Rotary switch on the side for draining the cleaning fluid.
Outlet valve on the rear of the machine
- Carrying handle in plastic
- More cleaning power, thus better cleaning effect

2975 00

36 month warranty!



For **spare parts** contact your local distributor.



OPTOSONIC “The Advanced – including Heating”

Technically as No. 2975 00, plus in addition:

- The cleaning process can be started with or without temperature control
- Heating protected against dry operation for an even better cleaning result
- Rotary switch to adjust temperature setting between 30 and 80 °C in 5 steps
- LED for desired and actual values for the temperature of the fluid

2976 00

36 month warranty!



For **spare parts** contact your local distributor.




Technical data	2974 00	2975 00	2976 00
Tank (w x h x d):	190 x 60 x 85 mm	240 x 100 x 137 mm	240 x 100 x 137 mm
Tank capacity:	approx. 0.8 l	approx. 2.8 l	approx. 2.8 l
Frequency:	37 kHz	37 kHz	37 kHz
Power:	30 W	80 W	280 W, including 200 W for integrated heater
Power usage per 10 min:	0.005 kWh	0.0133 kWh	0.0467 kWh
Voltage:	230 V	230 V	230 V
Size (w x h x d):	206 x 178 x 116 mm	300 x 214 x 179 mm	300 x 214 x 179 mm
Weight:	2 kg	3.3 kg	3.3 kg
Available baskets:	2971 02, 2974 10	2975 10	2975 10


Elmasonic P30H

- Multi-frequency technology with 37/80 kHz
- 37 kHz for standard cleaning process and 80 kHz for finer cleaning processes with increased cleaning time, very quiet
- Comfortable device with 2.8 l tank
- Rotary switch on the side for draining the cleaning fluid. Outlet valve on the rear of the machine
- Carrying handle in plastic
- More cleaning power, thus better cleaning effect
- The cleaning process can be started with or without temperature control
- Heating protected against dry operation for an even better cleaning result
- Rotary switch to adjust temperature setting between 30 and 80 °C in 5 steps
- LED for desired and actual values for the temperature of the fluid

Technical data	
Tank (w x h x d):	240 x 100 x 137 mm
Tank capacity:	approx. 2.8 l
Frequency:	37 kHz, 80 kHz
Power:	350 W including 320 W for integrated heater
Power usage per 10 min:	0.0583 kWh
Voltage:	230 V
Size (w x h x d):	300 x 214 x 179 mm
Weight:	3.3 kg
Available basket:	2975 10

2978 00

 36 month warranty!

 For **spare parts** contact your local distributor.




Built-in Ultrasonic Cleaner

- New compact device: container and generator in the same housing, separate control panel with timer
- With integrated drain for easy fitting in service desks
- Same technique as unit No. 2974 00 (see page A 9); e.g. with permanent sweep-function for perfect cleaning results
- Optional available: Built-In Rinsing container No. 2970 11, without drain

Technical data	
Tank (w x h x d):	190 x 60 x 85 mm
Tank capacity:	approx. 0.8 l
Frequency:	37 kHz
Power:	30 W
Power usage per 10 min:	0.005 kWh
Voltage:	230 V
Size (w x h x d):	206 x 178 x 116 mm
Weight:	2 kg
Available basket:	2974 10

2970 10

 36 month warranty!

 For **spare parts** contact your local distributor.





Accessories

Rinsing Container for 2970 10

Without drain.

2970 11

190 x 75 x 85 mm

740 g



Metal Basket

For ultrasonic cleaners No. 2970 10, 2974 00 and 2977 00.

2974 10

177 x 35 x 74 mm without handles 211 g



Metal Basket

For ultrasonic cleaners No. 2975 00, 2976 00 and 2978 00.

2975 10

200 x 55 x 107 mm without handles 400 g



Plastic Basket

For ultrasonic cleaners No. 2970 10, 2974 00 and 2977 00.

2971 02

185 x 47 x 85 mm 49 g



You will find our OPTOCLEAN and the cleaning concentrate on page E 19.

A must for all opticians who place value on comfortable working and good design.

This device shows competence and is perfect for working in the sales area. The OPTIFORMA can be built into the service desk. Frames can be heated in almost total silence. A digital temperature and time setting for gentle processing of sensitive materials is an expression of a genuine quality product made in Germany.



OPTIFORMA Profi

- Quiet running
- Stepless temperature and time setting via LCD and keys
- Menu driven handling
- Installed overheat protection
- Auto cut out if unit is knocked over in case of device inclination
- Automatic cooling phase
- Can be built into work bench or service desk, installation depth: 145 mm
- Including a template to use on a work top with a max. of 28 mm thickness
- Distance between the air jets: 45 mm
- Including spot heating jet




2872 01

Template for OPTIFORMA Profi No. 2872 ..

2872 25

Technical data	
Temperature scale:	60 to 140 °C
Adjustable operating time:	50 to 249 s
Overheating protection through thermo switch	
Power:	800 W
Power usage per 10 min:	0.1333 kWh
Voltage:	230 V
Size (w x h x d):	230 x 228 x 275 mm
Weight:	2.1 kg

 36 month warranty!

 For spare parts contact your local distributor.



● Design-
Zentrum
Nordrhein-
Westfalen

Design innovations
Award for
high quality design



OPTIFORMA Standard

- Temperature level adjustable using a potentiometer
- Additional device for pointed heating
- Auto cut out if unit is knocked over in case of device inclination
- Thermal overload protection
- Distance between the air jets: 45 mm



Black/Grey

2871 01

Technical data

Temperature scale:	80 to 140 °C
Overheating protection through thermo switch	
Power:	800 W
Power usage per 10 min:	0.1333 kWh
Voltage:	230 V
Size (w x h x d):	170 x 228 x 190 mm
Weight:	1.5 kg



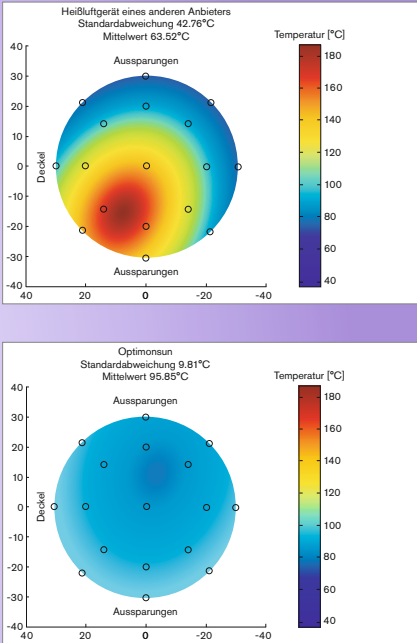
36 month warranty!



For **spare parts** contact your local distributor.

An optimized Classic

In cooperation with the technical university of Aalen we made a study to optimize the heat distribution in the cup which is used in this new generation of the OPTIMONSUN.
This branded product made in Germany corresponds with the highest requirements. The electronic version offers an additional third program which is designed for wood and horn processing at higher temperatures (180–230 °C).



Design Frame Heater OPTIMONSUN

- New design unit with especially even temperature distribution in the cup
- More comfortable handling of the frame due to an optimised opening in the cup
- Thermal overload control
- With plastic cup diam. 85 mm, slit width 30 mm, slit depth 34 mm
- Including spot heating jet
- 2,5 m helix cable (2 m normal cable with built-in unit)

2865 00
White

2865 01
Metallic
Black

2865 02
Metallic
Grey

2865 03
Blue

2865 ..

Design Frame Heater OPTIMONSUN Electronic

Technically like 2865 .., but also features:

- Movement sensor for comfortable working
- 3 different settings (non-stop use, 10 min, horn program up to 230 °C)
- With constant electronic temperature control, temperature adjustable
- Automatic switch off after 3 hours
- Including additional slot heating jet

2866 00
White

2866 01
Metallic
Black

2866 02
Metallic
Grey

2866 03
Blue

2866 ..

Technical data	2865 ..	2866 ..
Temperature:	180 °C	min. 60 °C, max. 230 °C
Temperature with spot heating jet:	max. 200 °C	max. 240 °C
Temperature regulation:	no	10°-steps
Power:	155 W	300 W
Power usage per 10 min:	0.0258 kWh	0.0499 kWh
Voltage:	230 V	230 V
Size (w x h x d):	190 x 265 x 190 mm	190 x 265 x 190 mm
Weight:	1.7 kg	1.7 kg

36 month warranty!

For spare parts contact your local distributor.



Frame Heater OPTIMONSUN

- With plastic cup Ø 85 mm, slit width 30 mm, slit depth 20 mm
- **Without** temperature control
- Metal housing
- 2 m helix cable



2867 ..

2867 ..



36 month warranty!

For **spare parts** contact your local distributor.

2867 01
Metallic
Black



2867 10
Metallic
Grey



2867 15
Blue



2867 22
White

Frame Heater OPTIMONSUN Electronic

Technically like 2867 .., but also features:

- With constant electronic temperature control, temperature variable adjustable

2869 ..



36 month warranty!

For **spare parts** contact your local distributor.

2869 01
Metallic
Black



2869 10
Metallic
Grey



2869 15
Blue



2869 22
White

2869 ..



Technical data	2867 ..	2869 ..
Temperature:	max. 180 °C	min. 65 °C, max. 180 °C
Temperature with spot heating jet:	max. 200 °C	max. 200 °C
Temperature control:	no	adjustable
Power:	215 W	250 W
Power usage per 10 min:	0.0358 kWh	0.0417 kWh
Voltage:	230 V	230 V
Size (w x h x d):	100 x 250 x 160 mm	100 x 250 x 160 mm
Weight:	1.3 kg	1.7 kg

Frame Heater Fata Up Plus/Fata up

- The quiet and efficient helper during frame adjustments
- Very light, quiet running heater with or without temperature control
- Including spot heating jet

Fata up Plus (with temperature control)

- ☐ White
- ☐ Black

2878 00

2878 01

Fata up (without temperature control)

- ☐ White
- ☐ Black

2878 10

2878 11



Technical data	
Temperature:	0–150 °C
Power:	350 W
Power usage per 10 min:	0.0583 kWh
Voltage:	230 V
Size (w x h x d):	120 x 320 x 180 mm
Weight:	1.9 kg

- 60 month warranty!
- For **spare parts** contact your local distributor.

Frame Heater Zita Plus

- With constant electronic temperature control
- Adjustable
- Distance between the air jets: 35 mm
- Including spot heating jet
- Metal housing

2875 00

Technical data	
Temperature level I:	to 75 °C
Temperature level II:	to 150 °C
Power:	900 W
Power usage per 10 min:	0.1499 kW
Voltage:	230 V
Size (w x h x d):	144 x 213 x 200 mm
Weight:	1.46 kg

- 60 month warranty!
- For **spare parts** contact your local distributor.





Frame Heater Maga S

- Very strong laboratory heater with heat from both sides
- Two electronically controlled temperature settings.
- Distance between the air jets: 45 mm
- Including spot heating jet
- Metal housing

2876 00

Technical data	
Temperature level I:	to 75 °C
Temperature level II:	to 150 °C
Power:	1,500 W
Power usage per 10 min:	0.2499 kW
Voltage:	230 V
Size (w x h x d):	190 x 215 x 315 mm
Weight:	3 kg

 **60 month warranty!**

 For **spare parts** contact your local distributor.



VENTILETTE Model 3

- With plastic cup Ø 80 mm, slit width 30 mm
- Casing and stand are made of aluminium
- Motor on rubber support for quieter running
- Universal motor for alternating current (AC) and direct current (DC)
- Extremely long carbon brushes increase service life span of motor
- With hot and cold switch

2861 22



VENTILETTE Model 3, Electronic


- Same as No. 2861 22, however with adjustable temperature level

2861 42



Technical data	2861 22	2861 42
Temperature level:	to max. 160 °C	40 to 200 °C (adjustable)
Power:	450 W	800 W
Power usage per 10 min:	0.0749 kWh	0.1333 kWh
Voltage:	230 V	230 V
Size (w x h x d):	275 x 135 x 145 (Ø stand) mm	275 x 135 x 145 (Ø stand) mm
Weight:	1.3 kg	1.6 kg

 **36 month warranty!**

 For **spare parts** contact your local distributor.

The original from Japan is really unique:


With high quality materials like brass bushing and quality bearings, a fully developed motor technology and perfectly manufactured.
For professional use, for high reliability, for better results than ever before.
Key reasons for us to recommend this high quality machine.




TAKUBOMATIC Lens Groover

- Large, specially supported guide rollers enable grooving of even difficult lens shapes
- Stepless adjustable groove depth
- Grooving parallel to rear face possible
- 4 different grooving types to choose from:
 - Controlled grooving parallel to front or back surface
 - Free wheel grooving
 - Manual controlled grooving
- No adaption on lens curvature necessary
- With an easy change it's possible to make a lenti cut by using No. 2893 20
- Including standard groove wheels (0.55 mm) and half eye frame adapter

Technical data	
Groove depth:	0 to 0.7 mm
Groove width:	0.55 mm
Thickness of lenses:	(min.) 1.5 to (max.) 11 mm
Lens dia.:	(min.) 25 to (max.) 70 mm
Grooving time:	approx. 40 sec/lens
Power:	57 W
Power usage per 10 min:	0.0095 kWh
Voltage:	230 V
Size (w x h x d):	170 x 160 x 210 mm
Weight:	2.7 kg

 36 month warranty!

 For spare parts contact your local distributor.

2894 00 N



Large, especially supported guide rollers enable grooving of even difficult shapes



Durable ball bearing due to splash water protection



Soft silicone chuck pads ensure a secure grip of the lenses and an even distribution of pressure when clamping them



Both lens guides are fitted with plastic rollers each of which can be finely adjusted to ensure the precise position above the grooving wheel

Spare Parts for Groover No. 2894 00 N and 2894 00 (discontinued)

For 2894 00 N	For 2894 00	Description
2893 05 N	2893 05	Cover for grinding wheel 0.55 mm
2893 06	2893 06	Driving belt for grinding wheel
2893 09	2893 09	Guiding pins
2893 10	2893 10	Ball bearing for diamond wheel shaft
2893 13	2893 13	Centering pin
2893 14	2893 14	Soft silicone chuck pads
2893 15	2893 15	Half eye adapter, small
2893 26	2893 26	Spare rubber for half eye adapter
2894 04 N	2894 04	Cover for grinding wheel 1.20 mm
2894 06	2894 06	Chuck knob right
2894 29	2894 29	Screw for diamond wheel
–	2894 43	Plastic knob, right, old version with serial number 279 72 and older
2894 51 N	2894 51	Guide roller, holder and lever left and right
2894 52 N	2894 52	Guide roller, holder and lever left complete
2894 53 N	2894 53	Guide roller, holder and lever right complete
2894 54 N	2894 54	Guide roller & holder left
2894 55 N	2894 55	Guide roller & holder right


Lens Groover

- Large guide rollers enable grooving of even difficult lens shapes
- Adjustable groove depth
- Grooving parallel to rear face possible
- 4 different grooving types to choose from:
 - Controlled grooving parallel to front or back surface
 - Free wheel grooving
 - Manual controlled grooving
- No adaption on lens curvature necessary
- Including standard groove wheels No. 2898 33 (0.55 mm)

Technical data	
Groove depth:	0 to 0.7 mm
Groove width:	0.55 mm
Thickness of lenses:	1.5 to max. 11 mm
Min. lens size for a rectangular flat shape with rounded corners:	22 x 56 mm
Grooving time:	approx. 40 sec/lens
Power:	100 W
Power usage per 10 min:	0.0167 kWh
Voltage:	220 V
Size (w x h x d):	170 x 152 x 220 mm
Weight:	2.9 kg

2899 00 N

 36 month warranty!

 For spare parts contact your local distributor.



Spare Parts for Groover No. 2899 00 N

For 2899 00 N	For 2899 00	Description
2898 13	2898 13	Chuck knob right with lock screw
2898 14	2898 14	Right shaft assembly
2898 23	2898 23	Ball bearing for driveshaft
2898 24	2898 24	Drive belt for grooving motor
2899 01 N	2899 01	Groove table complete
2899 03 N	2899 03	Cover for diamond wheel 0.55 mm
2899 10 N	–	Cover for diamond wheel 1.05 mm/1.20 mm
2899 19 N	–	Left guide roller
2899 20 N	–	Right guide roller



Consumables and Accessories for Lens Groovers

Details of the differences:

The grooving wheels made in France offer a very long tool life due to a special sintered diamond coating. The centred axis support guarantees a precise rotation. With this equipment the B&S lens groover will do a perfect job for you.

A worthwhile investment.



Diamond Grooving Wheel

- Especially for polycarbonate, with notches
- For groove wide: 0.55 mm
- Outer diameter: 25 mm
- For No. 2894 00, 2894 00N, 2898 00, 2899 00 and 2899 00N



2894 58

- For groove wide: 0.55 mm
- Outer diameter: 25 mm
- For No. 2894 00, 2894 00N, 2898 00, 2899 00 and 2899 00N



2893 01

- For groove wide: 1.05 mm
- Outer diameter: 25 mm
- For No. 2894 00, 2894 00N, 2898 00, 2899 00 and 2899 00N



2893 18

- For groove wide: 1.23 mm
- Outer diameter: 25 mm
- For No. 2894 00, 2894 00N, 2898 00, 2899 00 and 2899 00N



2894 03

Diamond Grooving Wheel

- For groove wide: 0.55 mm
- Outer diameter: 25 mm
- For No. 2894 00, 2894 00N, 2898 00, 2899 00 and 2899 00N



2898 33

Half-Eye Frames Adapter

- For No. 2894 00 and 2894 00N



2893 15  1 pair

Adapter Set for Lenti Grooving for No. 2894 00N

- Consists of diamond wheel No. 2893 21 and support table No. 2893 20
- Possible rim reduction: 2 mm
- For No. 2894 00 and 2894 00N



2893 20  230 g

Diamond Wheel

- For lenti grooving
- Spare part for adapter set No. 2893 20



2893 21


Chamfering Unit with V-Facet

- Fine surface with V-bevel
- Compact and robust plastic housing
- Switch to change the direction of rotation
- 34 mm width diamond wheel with V-bevel

2927 10

Technical data	
Speed:	2,800 rpm
Measurement of diamond wheel:	Ø 100 mm, width 34 mm
Thickness of graining layer:	2.5 mm
Power:	75 W
Power usage per 10 min:	0.0125 kWh
Voltage:	220–240 V
Size (w x h x d):	180 x 180 x 260 mm
Weight:	5 kg

 12 month warranty!

 For **spare parts** contact your local distributor.




Hand Edger with Sensor

- Rough and fine surfaces with V-bevel
- Contact free operation through an **infra-red sensor**
- Compact and robust plastic housing
- Switch to change the direction of rotation
- 35 mm width diamond wheel with V-bevel

2928 10

Technical data	
Speed:	2,000 rpm
Measurement of diamond wheel:	Ø 100 mm, width 35 mm
Thickness of graining layer:	2 mm
Power:	150 W
Power usage per 10 min:	0.0249 kWh
Voltage:	220–240 V
Size (w x h x d):	225 x 175 x 360 mm
Weight:	7.5 kg

 12 month warranty!

 For **spare parts** contact your local distributor.




Hand Edger

- Rough and fine surfaces with V-bevel
- Compact and robust plastic housing
- Switch to change the direction of rotation
- 35 mm width diamond wheel with V-bevel

2928 00

Technical data	
Speed:	2,000 rpm
Measurement of diamond wheel:	Ø 100 mm, width 35 mm
Thickness of graining layer:	2 mm
Power:	150 W
Power usage per 10 min:	0.0249 kWh
Voltage:	220–240 V
Size (w x h x d):	225 x 275 x 360 mm
Weight:	7.5 kg

 12 month warranty!

 For **spare parts** contact your local distributor.





The original made in Japan

The classic hand edger with long durability and especially high graining layer thickness. The high-quality diamond wheels are manufactured with precision to ensure a uniform smoothness. A reliable helper in your workshop!

TAKUBOMATIC Hand Edger in 2 Versions

- Direction switch to change the direction of rotation
- High quality diamond wheel, 30 mm width, available in different versions, especially long lasting



Technical data	
Speed:	1,800 rpm
Measurement of diamond wheel:	Ø 100 mm, width from 30 to 32 mm
Thickness of graining layer:	1.2 mm
Power:	97 W
Power usage per 10 min:	0.0162 kW
Voltage:	230 V
Size (w x h x d):	220 x 280 x 360 mm
Weight:	8 kg

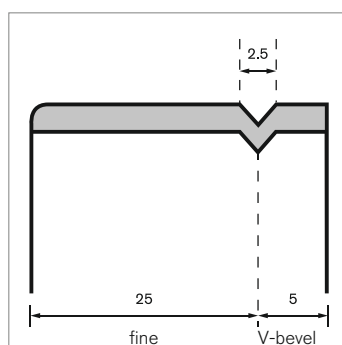
36 month warranty!

For **spare parts** contact your local distributor.

Diamond Hand Edger

With diamond wheel
Finishing wheel with V-bevel and shoulder

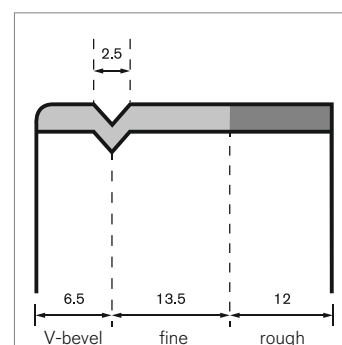
2923 00



Diamond Hand Edger

With diamond wheel
With V-bevel, rough and fine surfaces

2925 00



The “work horse” in a new design


We searched for a long time before we found this polishing motor "Made in Germany" which meets all our requirements: strong torque and variable speed control during clockwise and anti-clockwise rotation. Special features: low speed for easy polishing of delicate materials such as polycarbonate. An optional flexible shaft extends the range of applications. You can rely on this all-rounder made in Germany if you want to polish efficiently and effectively.




B & S Polishing Motor with Clockwise and Anti-clockwise Rotation

- Frequency-controlled three-phase motor
- Clockwise and Anti-clockwise rotation
- Low maintenance ball bearings
- Low noise
- 300 W
- Designed for continuous operation
- Including left and right polishing tip

Technical data	
Speed:	0 up to 6,000 rpm (variable speed)
Height of spindle:	111 mm
Power:	300 W
Power usage per 10 min:	0.0499 kWh
Voltage:	230 V
Size (w x h x d):	250 x 170 x 172 mm
Weight:	11 kg

 36 month warranty!

 For spare parts contact your local distributor.

2967 00



Spare Tips for the Polishing Machines No. 2967 00 and 2966 00 (discontinued)

Polishing Tip, left

With right hand thread.

2966 22

Ø 14 mm (Bore)

| | approx. 115 mm



Polishing Tip, right

With left hand thread.

2966 23

Ø 10 mm (Bore)

| | approx. 115 mm



Please consider before ordering: **Lever in right hand run position (clockwise wheel rotation):**
left: polishing tip No. 2966 22 – right: polishing tip No. 2966 23

LUX Polishing Motor

- With two conical tips (right/left thread) and one wheel adapter
- Two different speed settings
- Not designed for continuous use (max. 20 min)

2968 00



Technical data

Speed:	1,400 and 2,800 rpm
Power:	300 W
Power usage per 10 min:	0.0499 kWh
Voltage:	230 V
Size (w x h x d):	250 x 300 x 150 mm
Weight:	5.5 kg



36 month warranty!



For **spare parts** contact your local distributor.



You will find our buffing wheels and polishing wax on page E 27.

Universal Dust Collector for right and left

- Metal casing with removable plastic tray

2968 20

Technical data

Size (w x h x d):	185 x 280 x 270 mm
Weight:	2.75 kg



Automatic Drilling Machine

For drilling and milling

- Easy and quick capture of the drill hole coordinates by using the previous lenses or demo lenses
- Memorises drill hole coordinates of the current scanned frame
- **The saved drill holes will be automatically approached one by one, the drilling process is fully automatic for all drill holes**
- Good drilling results in a very short time


Including:

- Marking aid for lenses No. 2889 01
- Drills (1.0; 1.2; 1.4; 1.5; 1.6; 1.7; 2.0)
- Millers (0.8; 1.1; 1.2; 1.4)
- Drill-miller set No. 2035 50

2890 30

Technical data	
Speed:	0 up to 3,000 rpm
Power:	50 W
Power usage per 10 min:	0.0083 kWh
Voltage:	230 V
Size (w x h x d):	300 x 225 x 270 mm
Weight:	5 kg

 **12 month warranty!**

 For **spare parts** contact your local distributor.

Marking Set

2889 01



You will find our drills and millers from page C 32 on.



Drilling Centre


- Drilling, milling and grooving – all demands for stylish rimless frames are easily met with this very reasonably priced drilling centre.
- Drill, mill and groove accurately with both lenses blocked side by side
 - Can be used on a stand or as a hand drill
 - Compact easy to use cross table
 - Storage for drills, millers and small parts
 - Cross table with millimeter scale, separately available: No. 2191 11
 - Lens angle changeable to minimise adjustments after frame assembly
 - Inclination adjustable through dial

2191 06

Including WECO blocker Take-up (can also be used without blockers)

Technical data	
Speed:	5,000 to 20,000 rpm (adjustable)
Chuck:	0.5 to 3.2 mm
Cross table surface:	200 x 70 mm
Adjusting range for cross table:	X (diagonal) 134 mm, Y (deep) 46 mm
Power:	60 W
Power usage per 10 min:	0.0099 kWh
Voltage:	230 V
Operating voltage:	12 V
Size without transformer (w x h x d):	280 x 400 x 330 mm
Weight:	2.8 kg

 **36 month warranty!**

 For **spare parts** contact your local distributor.



Lens Drilling Device for NIDEK
Toothed Blocks (without illustration)

Suitable for Xenox and Proxxon cross tables.
Complete with NIDEK blocker Take-up.

2891 64-NIDEK



 For **blocker Take-up and spare parts** contact your local distributor.



Xenox Table Drilling Machine

- Precision measurements due to depth perceptions scale
- Fixed knob with scale
- Transmission belt drive
- Very quiet running
- Incl. machine vice No. 2887 21
- Incl. drill chuck No. 2887 11
- 6 steel clamps for shaft size from 0.8 to 3.2 mm
- **Accessories:** Base plate No. 2887 14, cross table No. 2191 11 and lens rest dome No. 2191 15

2887 55

Identical with No. 2887 55, however **without** accessories.

2887 20



Technical data

Speed:	1,800 and 4,700 and 8,500 rpm (change by adjusting the belt)
Power:	85 W
Power usage per 10 min:	0.0142 kWh
Voltage:	230 V
Size (w x h x d):	120 x 330 x 220 mm
Weight:	5.7 kg

 **36 month warranty!**

 For **spare parts** contact your local distributor.



Practical drill depth indication
with adjustable knob

Proxxon Drilling Stand

- Cantilever head can be swivelled up to 90°, enabling oblique drilling and versatile milling
- Sensitive feed through steering wheel and roller bearings
- Solid, chrome steel pillar (Ø 20 mm, 280 mm long)
- The handpiece collet can be tilted to both sides in 90°
- Weight: 2 kg

Drilling machine No. 2886 61 and vice No. 2887 21 are not included.

2128 65

 **36 month warranty!**

 For **spare parts** contact your local distributor.



Machine Vice

For table drilling machine No. 2887 20 and drill stand No. 2128 70 (discontinued).

2887 21



Xenox Drilling and Milling Unit

Incl. 6 chucks with 1.0; 1.5; 2.0; 2.4; 3.0 and 3.2 mm diameter and drill chuck No. 2886 64.


Does not include pictured grinding wheels or polishing wheels.

2886 61



Technical data	
Speed:	5,000 to 20,000 rpm
Power:	60 W
Power usage per 10 min:	0.0099 kWh
Voltage:	230 V
Size (w x h x d):	240 x 90 x 240 mm
Weight:	2.9 kg

 36 month warranty!

 For spare parts contact your local distributor.

Proxxon Hand Drilling Machine with Transformer


Incl. 6 chucks with 1.0; 1.5; 2.0; 2.4; 3.0 and 3.2 mm diameter.

2886 60



Technical data	
Speed:	5,000 to 20,000 rpm (adjustable)
Power:	60 W
Power usage per 10 min:	0.0099 kWh
Voltage:	230 V
Size (w x h x d):	140 x 80 x 240 mm
Weight:	2.9 kg

 36 month warranty!

 For spare parts contact your local distributor.



You will find our small tools from page C 31 on.



Hot quality

The AQUARIUS Hydrozon soldering unit is manufactured by a small company in Germany under full compliance with the most demanding quality standards. The best unit we have found. Hydrozon soldering technology minimises harmful oxidation during the soldering process and offers a material saving repair. The environmentally-friendly technology can be used for years almost without the need for any consumables, making it very cost-effective in the long term. We guarantee repair and spare parts service for many years.



AQUARIUS Welding and Soldering Unit

- Designed for continuous use
- Safety pressure control function and backfire control valve built into the handpiece and the hose connection
- Precise regulation of flame is possible by using different size jets and a small knurling wheel
- Optical display of push button function via LED
- Integrated flux container
- **Accessories included (1 each):**
Holder for soldering hand piece No. 2845 00, soldering hand piece No. 2846 00, float levels No. 2847 00 and 2847 01, electrolyte No. 3198 00 and flux No. 3199 01

2839 60

AQUARIUS Welding and Soldering Unit

- Like No. 2839 60, but with max. gas power of 50 l/h
- 2 workstations may be run simultaneously
- **Accessories included (1 each):**
Holder for soldering hand piece No. 2845 00, soldering hand piece No. 2846 00, float levels No. 2847 00 and 2847 01, sets of jets No. 2840 50, electrolyte No. 3198 00 and flux No. 3199 01

2839 00

Technical data	2839 60	2839 00
Number of possible workstations:	1	2
Maximum gas capacity:	45 l/h	50 l/h
Water consumption:	16 g/h	28 g/h
Flux consumption:	6 g/h	8 g/h
Biggest applicable jet:	20 G (0.9 mm)	19 G (1.0 mm)
Power:	200 W	250 W
Power usage per 10 min:	0.0333 kWh	0.0417 kWh
Voltage:	230 V	230 V
Size of machine without attachments (w x h x d):	450 x 280 x 220 mm	450 x 280 x 220 mm
Operation weight:	14 kg	17 kg



42 month warranty and 20 years spare parts warranty!




For **spare parts** contact your local distributor.

Micro-Torch II+ Complete Set with Central Dosing Valve

- Practical soldering device, efficient and space saving
- With central dosing valve for flame regulation that greatly reduces oxygen and gas consumption
- **Accessories included:**
- 2 oxygen bottles No. 2760 02, hand piece No. 2761 01, gas cartridge No. 2761 06, Triox adapter with dosing valve No. 2762 06 and single jets No. 2840 06, 2840 08, 2840 10 and 2840 13

Technical data	
Applicable jets:	0.6 to 1.2 mm
Max. working temperature:	2,700 °C
Burning duration of set of bottles:	approx. 1.5 h according to jet size
Weight:	1.73 kg

 For **spare parts** contact your local distributor.

2762 05



Due to legal requirements gas and oxygen will be delivered in separate packaging.

Micro Soldering Unit, Type B.P.

- Small and handy unit
- Piezo ignition
- Special jet with air supply provides a small, pointed and 1,600 °C hot flame
- Ready for use, delivery with 1 bottle No. 2761 06

2763 00  160 g




Soldering Iron

- Nickle-plated copper tip, straight pointed
- Including hand piece rest

2770 00  200 g



Technical data	
Power:	25 W
Power usage per 10 min:	0,0042 kWh
Voltage:	230 V
Temperature:	max. 420 °C
Heating time:	2 min
Connector cable:	1.5 m
Diameter:	4 mm

 For **spare parts** contact your local distributor.

Punch with Grooved Head for Use in No. 2770 00:

2770 10 **Punch with grooved head** Inside width: 3 mm



2770 11 **Punch with grooved head** Inside width: 1.8 mm





The classic “Made in Germany”

Reliable for decades and almost unchanged. A solid help with a steady hand.

Soldering Station

- Ideal for holding broken spectacle frames when soldering
- Two adjustable clamps, vertically and horizontally movable
- Mounting of a “Third Hand” possible
- Baseplate heat resistant
- Size of baseplate (w x d): 295 x 210 mm

2757 00

2.1 kg

For **spare parts** contact your local distributor.

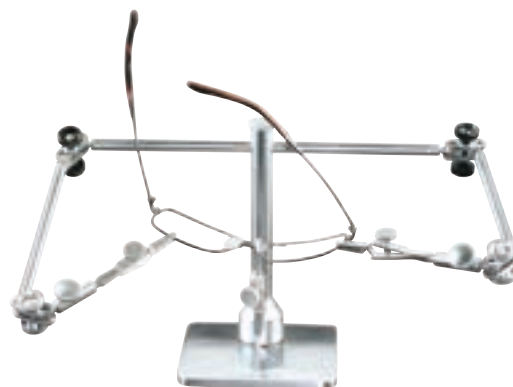


Soldering Station with small Base Plate

- Ideal for fixing workpieces
- With 3 adjustable clamps
- Clamps vertically and horizontally adjustable and lockable
- Small space-saving base plate
- Fixing facility for one additional clamp on the base plate
- Material: chromed brass and stainless steel
- Dimensions of the base plate (w x d): 100 x 100 mm

2757 20

1.4 kg



Accessories for the Soldering Unit No. 2762 05 for AQUARIUS Soldering and Welding Units

Single Jets

2840 ..

Gauge* Description	Jet Ø	Opening Ø	Order No.
24	0.5 mm	4.0 mm	2840 05
23	0.6 mm	4.0 mm	2840 06
22	0.7 mm	4.0 mm	2840 07
21	0.8 mm	4.0 mm	2840 08
20	0.9 mm	4.0 mm	2840 09
19	1.0 mm	4.0 mm	2840 10
18	1.2 mm	4.0 mm	2840 13

* Gauge refers to a unit of measurement which is used to measure the size of small tubes. The higher the gauge the smaller is the external diameter of the small tube.



Set of Jets

5 pieces assorted.
Jet dia.: 0.6; 0.7; 0.8; 0.9 and 1.0 mm

2840 50



You will find our soldering accessoires
on page E 34 to E 37.

Reamers for Jets

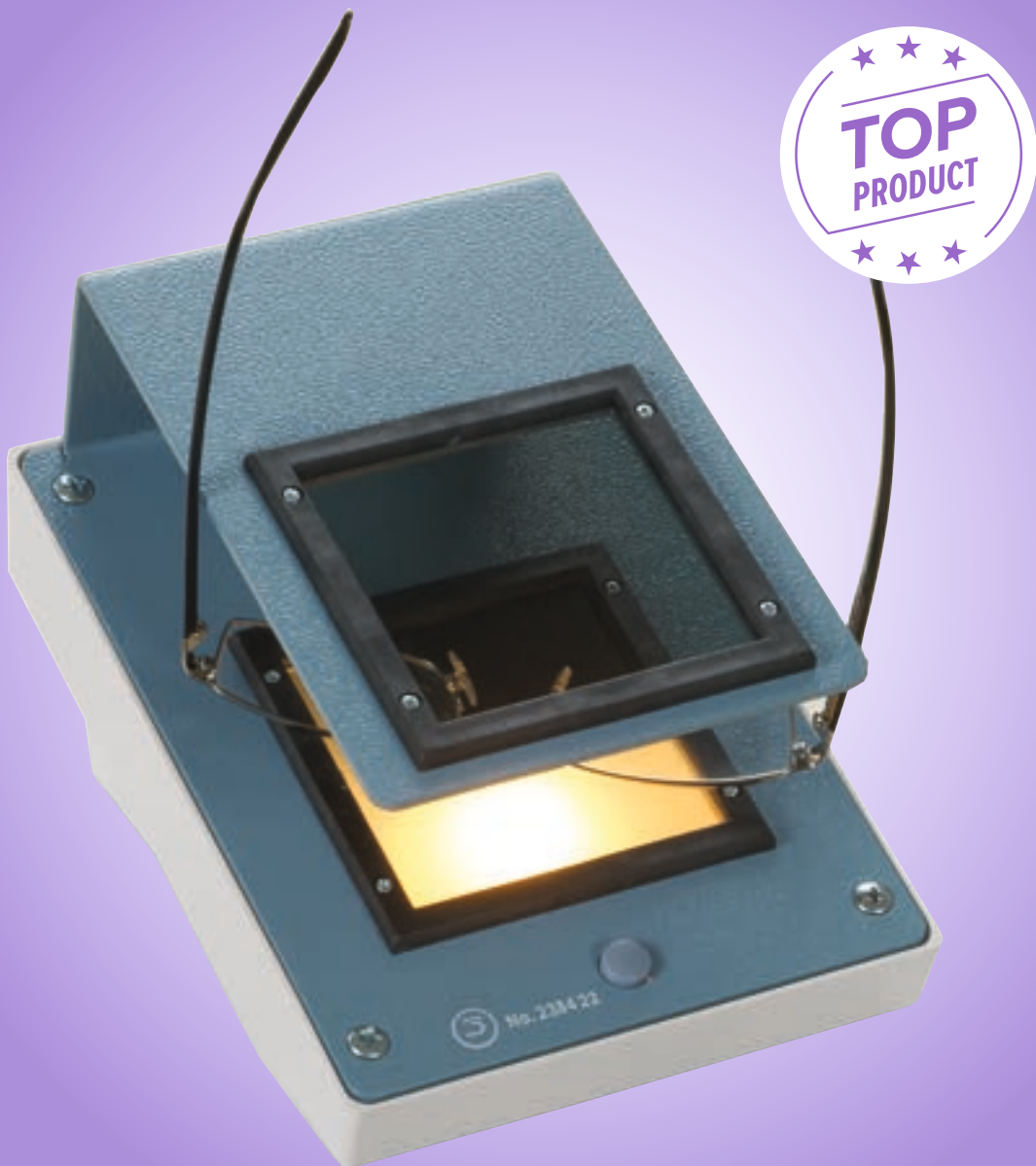
With plastic handle, for cleaning of blocked jets.
Reamers-Ø: 0.05; 0.08; 0.10; 0.15; 0.20; 0.25; 0.30; 0.35; 0.40; 0.45;
0.50 and 0.55 mm

2840 20 12 = 1 set



The B & S polariscope

"Made in Germany" quality. Its outstanding characteristics are ease of use and functional reliability. The tilted alignment of the polarisation filter makes identifying the stress fields in the lens area both simple and easy. A large test area and good ergonomic qualities make it an optimum aid in the workshop and in the sales area.



Polariscope

- Now with LED light source
- With illumination via push-button
- Automatic shut-off after approx. 15 sec

2384 22

LED Light Source


For No. 2384 22.

2384 56

Technical data

Size of test area:	68 x 68 mm
Distance between polarised fields:	50 mm
Timer:	approx. 15 sec illumination
Power:	1.3 W
Power usage per 10 min:	0.0002 kWh
Voltage:	230 V
Size (w x h x d):	130 x 130 x 175 mm
Weight:	700 g

 36 month warranty!

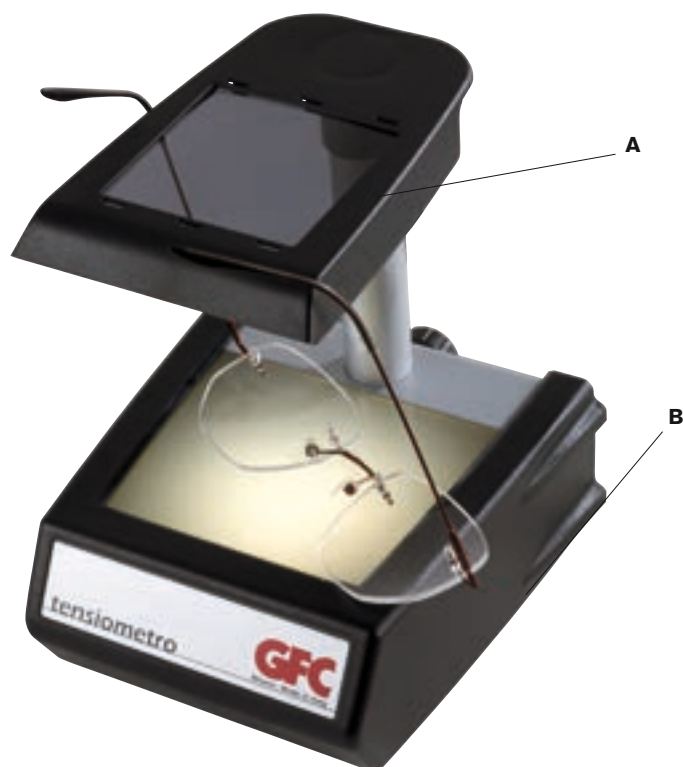
 For spare parts contact your local distributor.



GFC Polariscope with Adjustable Inclination of the Unit


- Comfortable use because of adjustable inclination of the unit
- Suitable for spectacles with high lens curves
- Extra large distance between the test fields
- With lighting inside the metal housing

2397 22



Technical data	
Size of polarising field:	A) 58 x 58 mm B) 75 x 75 mm
Distance between polarised fields:	95 mm
Power:	6 W
Power usage per 10 min:	0.0009 kWh
Voltage:	230 V
Size (w x h x d):	135 x 165 x 150 mm
Weight:	700 g

 **36 month warranty!**

 For **spare parts** contact your local distributor.



Hand Polariscope


With power saving LED, battery, made of plastic and metal.

2393 20



Technical data	
Size of polarising field:	40 x 40 mm
Distance between polarised fields:	25 mm
Voltage supply:	9 V battery (type PP3)
Size (w x h x d):	100 x 55 x 48 mm
Weight:	180 g

 **36 month warranty!**

 For **spare parts** contact your local distributor.

GFC UV Test Lamp


To demonstrate photochromatic lenses to customers.

2399 00



Technical data	
Fuse:	0.5 A
Power:	9 W
Power usage per 10 min:	0.0014 kWh
Voltage:	230 V
Size (w x h x d):	220 x 125 x 120 mm
Weight:	1.75 kg

 **36 month warranty!**

 For **spare parts** contact your local distributor.

Transmittance Measuring Device


For measuring the transmission of spectacle lenses in the UV-light, visible and infrared light range. Quick and simple measurement.

2412 00



Technical data	
Measurement range UV:	365 nm
Measurement range VIS:	380 – 760 nm
Measurement range IR:	950 nm
Measurement tolerance:	+/- 2%
Voltage:	230V / 50Hz AC
Size (w x h x d):	200x 106 x 180 mm
Weight:	1.5 kg

 **12 month warranty!**

 For **spare parts** contact your local distributor.

Q-Check Testing Unit

Q-Check allows a precise inspection of mounted and already worn spectacles. The compact unit combines the following functions:


- Checking of centring lines
- Lens engraving/markings on lenses
- Polariscopes
- Surface inspection

2460 00



Technical data	
Power:	230 V/50 Hz
Size (w x h x d):	125 x 190 x 220 mm
Weight:	approx. 1.3 kg

 **24 month warranty!**

 For **spare parts** contact your local distributor.



Handy Transmission Device “Made in Germany”

A compact, German high tech product which is easy to use and offers guaranteed reliability when presenting the results of measurements. The OptiScan simultaneously measures the transmission of UV and visible light. Results are shown in terms of percentages. The device is independent of mains power supply and can be used for customer demos anywhere in the sales area.



OptiScan Transmittance Measuring Device

- Device for measuring the transmittance of spectacle lenses in the visible and UV-light range
- Verification of both single lenses and complete spectacles is possible
- It is especially designed for customer demonstration
- Small, compact & battery-operated

2411 00

Technical data

Measuring range:	VIS: 380–700 nm, UV: 320–380 nm
Power supply:	9 V battery (type PP3)
Size (w x h x d):	110 x 130 x 120 mm
Weight:	860 g

24 month warranty!

For **spare parts** contact your local distributor.

GFC Progressive Marking Reader

- To easily identify progressive markings on the back and front surface of lenses
- Comfortable to use because of adjustable inclination of the unit (75 x 75 mm)
- Suitable for spectacles with high lens curve

2451 00



Technical data

Power:	6 W
Voltage:	230 V
Size (w x h x d):	135 x 270 x 150 mm
Weight:	1.2 kg

36 month warranty!

For **spare parts** contact your local distributor.

UV Lamps for UV Light Curing Adhesives

- To activate all UV curing glues
- UV protection for the user
- Continuous operation and time setting 120 sec (with No. 2431 00)
- No. 2431 00 with extendable worktop
- Large exposure field
- No. 2421 00 with 15 energy-efficient LED lamps
- No. 2421 00 with time setting 99 sec and infrared sensor

Technical data	2431 00	2421 00
Power:	36 W (4 x 9 W)	24 W
Power usage per 10 min:	0.0059 kWh	0.0039 kWh
Voltage:	230 V	230 V
Size (w x h x d):	220 x 75 x 120 mm	215 x 75 x 120 mm
Weight:	900 g	200 g

2431 00

2421 00

 24 month warranty!



2431 00

3184 10



2421 00


3184 03

Bulb for the UV Lamp for Adhesives

Spare bulb for No. 2430 00, 2420 00, 2430 20, 2420 10 and 2431 00.
Capacity: 9 W

2431 01



 You will find our UV gels on page E 11.

LED Bulb for the UV Lamp for Adhesives

Spare bulb for No. 2430 00, 2420 00, 2430 20, 2420 10 and 2431 00.
Capacity: 9 W

2431 02





Tinting Unit Tinta 2 for 2 Pots

- This unit is designed to heat tinting solutions to dye uncoated organic lenses
- With adjustable temperature and clock timer
- Perfect to use with B&S dye powder No. 2615 01–2615 29
- Including 2 stainless steel pots and one stainless steel lens holder

Technical data

Power:	max. 1,035 W
Power usage per 10 min:	0.1724 kWh
Voltage:	230 V
Size (w x h x d):	160 x 220 x 430 mm
Weight:	4.2 kg

36 month warranty!

For **spare parts** contact your local distributor.

2880 01



You will find dyes for the tinting unit on page E 20.

The B & S CLAVULUS, proven quality from Germany

The CLAVULUS has been produced exclusively for B & S by more than three generations of the same precision engineering company in the Black Forest. With this classic piece of equipment many tasks which involve spectacles can still be carried out simply and dependably. The craft precision used in its manufacture and our satisfied users have kept the CLAVULUS in the B & S product range for almost 75 years.

A comprehensive range of accessories extends the scope of the applications which it can be used for. Opticians for whom craftsmanship is the focus of attention will especially appreciate its qualities.



CLAVULUS

- For quick and easy repairs
- **Special accessories:** Peening punch, riveting punch, flaring punch 1.5 mm, rivet puller, punch for spread hinges, single punch, double punch and 7 anvils

The Original with

30 years warranty!

For **spare parts** contact your local distributor.

2125 50

135 x 290 x 175 mm

2.5 kg



Accessories for CLAVULUS

Bending Device for Bridge Narrowing

With wide and narrow cone.

2125 26



Fixing Screw for Punches and Anvils

2147 00



Lens Drilling Device

- A lockable precision micrometer screw ensures the correct distance between edge of lens and bore hole centre
- Two pivots allow perfect centering for drilling
- May be used together with the adapter chuck No. 2887 12 with the table drill No. 2887 20 and 2887 10 (discontinued) plus the drill stands No. 2128 60 and 2128 70 (discontinued)



2129 00

- Incl. drilling support No. 2129 01



Peening Punch

2125 01



Riveting Punch

2125 02



Flaring Punch, Ø 1.5 mm

2125 04



Flaring Punch, Ø 2.1 mm

2125 05



Anvil, Ø 1.8 mm

2125 41



Stamp

For marking spectacles (see also page B 31).

2125 31–39





You will find further spare parts on page A 43.


CLAVULUS

- For quick and easy repairs
- **Special accessories:** Peening punch, riveting punch, flaring punch 1.5 mm, flaring punch 2.1 mm, rivet extractor, double rivet extractor, punch for spread hinges, single punch, double punch, anvil extention and 9 anvils

2126 00

 165 x 210 x 265 mm  3.3 kg

 24 month warranty!

 For **spare parts** contact your local distributor.



Accessories for CLAVULUS

Suitable for No. 2126 00 and 2125 50.

Peening Punch

2126 10



Riveting Punch

2126 11



Flaring Punch,
Ø 1.5 mm

2126 12



Flaring Punch,
Ø 2.1 mm

2126 13



Rivet Extractor

2126 14



Double Rivet Extractor

2126 15



Punch for
Spread Hinges

2126 16



Single Punch

2126 17



Double Punch

2126 18





Anvil with Drill,
Ø 8 mm

2126 19



Anvil with Slot

2126 20



Riveting Anvil

2126 21



Anvil without Hole

2126 22



Single Hole Anvil

2126 23



Double Hole Anvil

2126 24



Anvil Extension

2126 25



Wiper

2126 26



Plastic Anvil

2126 27



Slotted Anvil

2126 28



Anvil with Drill,
Ø 1.8 mm

2126 29



Spare Pins for Single
and Double Hole Anvil

2126 30







PLIERS

with pliers every grasp fits



- B 2 Parallel Pliers
- B 4 Overview: eLite-, Standard Pliers
- B 6 Inclination Pliers
- B 8 Holding Pliers
- B 10 Nylon Eyewire Pliers
- B 12 Tips & Tricks: Bending Pliers
- B 16 Flat Snipe Nose Pliers
- B 19 Size Testing Pliers
- B 20 Nose Pad Adjusting Pliers
- B 22 Tips & Tricks: Rimless Frame Pliers
- B 25 Special Front Cutters & -Pliers
- B 30 Tips & Tricks: Bionic Thumb
- B 33 Peening Pliers
- B 34 Lens Aligners
- B 36 De-Blocking Pliers
- B 38 Marking Pliers
- B 39 Side & Front cutter
- B 43 Tips & Tricks: Spring Hinge Pliers
- B 45 Storage for Pliers
- B 46 Handle cover for pliers

Parallel Pliers – an innovation at B&S

- **Parallel jaws**

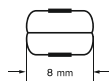
Secure grip due to a parallel jaws position in every situation.

- **Long pliers handles**

Optimum leverage with minimum use of force.

- **Plastic jaws “Made in Germany”**

Naturally the highest quality plastic jaws for extra durability.



Parallel Holding Pliers 8 mm

With two plastic jaws.
Self-opening by spring mechanism.

1551 00 P

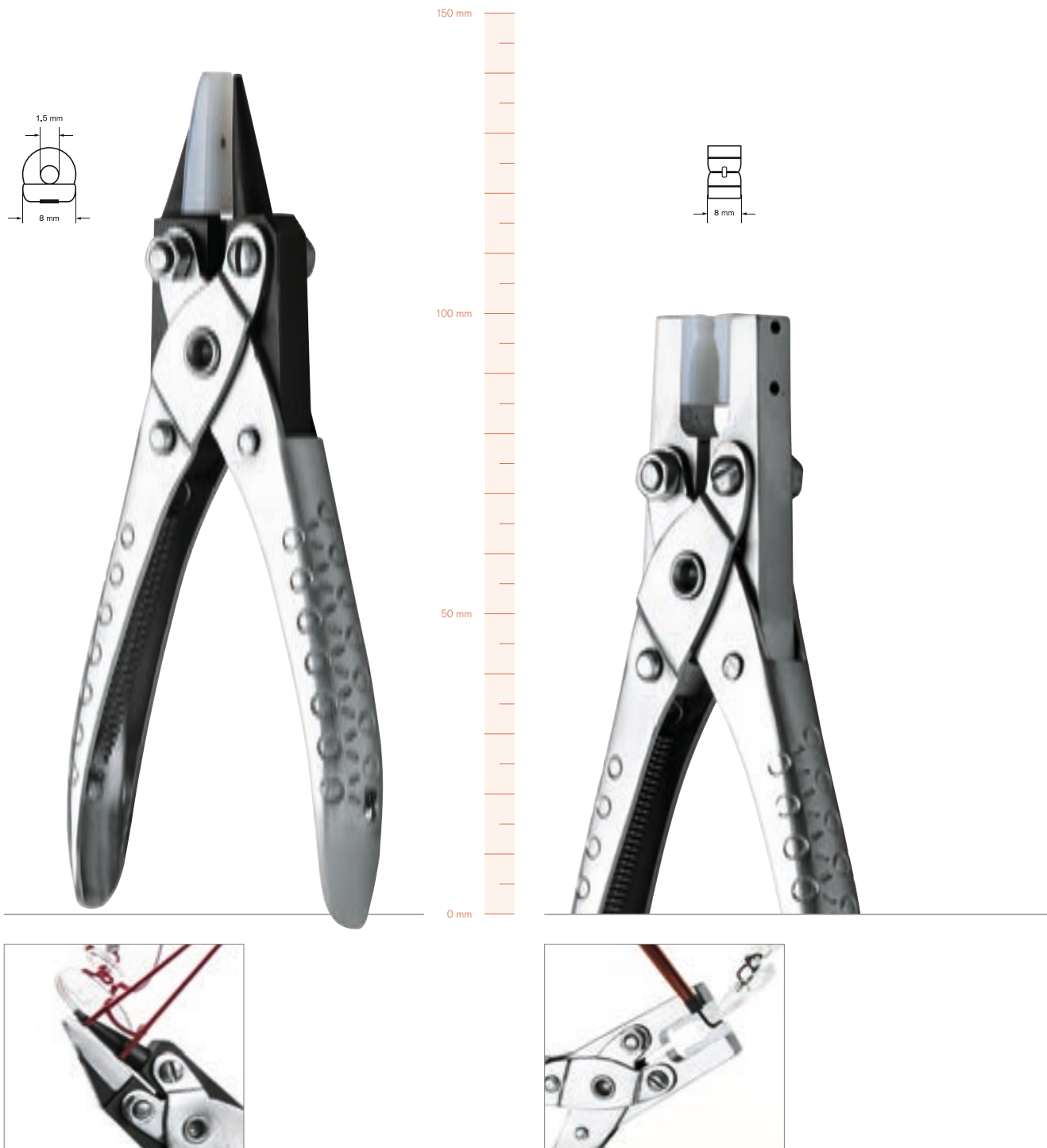
140 mm

135 g

Replacement plastic jaws:

1551 01

1 pair



Parallel Inclination Pliers 8 mm

One jaw side fitted with plastic to bend metal hinges without leaving any marks.
Self-opening by spring mechanism.

1558 00 P

140 mm 135 g

Replacement plastic jaw:

1558 01

Parallel Pressure Mount Pliers

For pressing in the plastic sleeves on rimless frames of type Silhouette "Minimal Art" or similar models.
Self-opening by spring mechanism.

1511 00 P

140 mm 140 g

Replacement plastic jaws:

1511 01 1 pair

B & S Pliers* – decades of experience in your hand

- **Unique design**

Developed by B & S, functional and protected worldwide.

- **10 years warranty**

(except cutting pliers and eLite spring hinge plier no. 1514 .. and all plastic parts)
Solid and durable.

- **Reliable quality**

Forged joint, precise manufacturing, highly durable plastic jaws.



You will find our Plasti Dip
on page E 22 and E 23.



You will find our practical shrinking tubes
for plier handles on page B 46.





Standard Pliers – proven a million times over

- **Robust design**
Ideal for people who prefer working with heavier tools.
- **Long handles**
For optimum leverage with a minimum use of force.
- **Textured surface**
Provides a safe grip, prevents slipping.

eLite Pliers – the ultra-light alternative

- **Handy size**
Also suitable for smaller hands.
- **Lighter**
Light pliers for less effort.
- **Very secure grip**
Asymmetrical ends and textured grip to prevent slipping.

eLite: smaller, lighter and with matt finish



Inclination Pliers – Conical 8 mm

To adjust metal hinges, one side with nylon jaw, conical jaw: Ø 6:1.5 mm.

Standard:

1558 00 N

| 150 mm | 140 g

eLite:

1558 50

| 148 mm | 100 g

Replacement plastic jaw:

1558 01



Inclination Pliers – Conical 6 mm

To adjust metal hinges, for **delicate frames**, one side **with extremely thin flat nylon jaw**, conical jaw: Ø 6:1.5 mm.

Standard:

1558 10 N

| 150 mm | 140 g

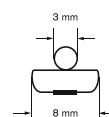
eLite:

1558 55

| 148 mm | 100 g

Replacement plastic jaw:

1558 02



Inclination Pliers – with Notch 8 mm

To adjust thin metal frames,
one side with nylon jaw,
conical jaw: Ø 6:1,5 mm.

Standard:

1558 20 N

150 mm 140 g

Replacement plastic jaw:

1558 01



Inclination Pliers – Cylindrical 8 mm

Especially designed for nylon frames, extremely thin cylindrical
metal pin, other jaw is covered with nylon.

Standard:

1596 00 N

150 mm 140 g

eLite:

1596 50

148 mm 100 g

Replacement plastic jaw:

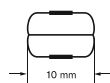
1596 01

Handle cover for pliers – your advantage at work from B & S

- Better grip
- Comfortable working



You will find our practical shrinking tubes for pliers handles on page B 46.



Holding Pliers 10 mm

With plastic jaws, jaw mouth remains in parallel position up to approx. 3 mm.

Standard:

1553 00 N

150 mm

140 g

Replacement plastic jaws:

1553 01

1 pair




Holding Pliers 8 mm

With plastic jaws.

Standard:

1551 00 N

150 mm  140 g

eLite:

1551 50

148 mm  100 g

Replacement plastic jaws:

1551 01  1 pair




Holding Pliers 6 mm

With plastic jaws, mouth remains in parallel position at a gap of approx. 3 mm.

Standard:

1565 00 N

150 mm  140 g

eLite:

1565 50

148 mm  100 g

Replacement plastic jaws:

1565 01  1 pair



Nylon Eyewire Shaper 24 mm

With plastic jaws, large version.

Standard:

1507 00 N

150 mm 140 g

eLite:

1507 50

145 mm 110 g

Replacement plastic jaws:

1507 01 1 pair



Nylon Eyewire Shaper 19 mm

With plastic jaws, small version.

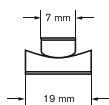
Standard:

1509 00 N

145 mm 140 g

Replacement plastic jaws:

1509 01 1 pair




Nylon Eyewire Shaper 19/7

One plastic jaw (19 mm), one plastic jaw (7 mm).
Perfect to adjust bridges.

Standard:

1506 00 N

145 mm  140 g

Replacement plastic jaws:

1506 01  1 pair




Nylon Eyewire Shaper 15/12

One plastic jaw (15 mm), one plastic jaw (12 mm).
Perfect to adjust bridges.

Standard:

1584 00 N


145 mm  140 g

eLite:

1584 50

137 mm  100 g

Replacement plastic jaws:

1584 01  1 pair




TIPS & TRICKS

BENDING PLIERS WITH 3 ROLLERS

One Plier for Many Applications!

Bending Pliers with 3 Rollers
No. 1566 00 N, 1566 50

 approx. 1–2 minutes

This is how it works



TO ADJUST THE:

1 TEMPLES



2 EYEWIRE



3 BRIDGE



4 TEMPLE ENDS



5 LENS SHAPE





Bending Pliers with 3 Rollers

For various purposes: to adjust spectacles, bridges, temples and temple tips.

Standard:

1566 00 N

150 mm 140 g

eLite:


1566 50

148 mm 95 g


Replacement plastic jaws:

1566 01 1 set





You will find our Plasti Dip on page E 22 and E 23.



You will find our shrinking tubes on page F 75.



Bending Pliers

Based on the trident pliers concept. This plier is particularly suitable for a careful adjustment of softer materials. The plastic jaw prevents scratches. The thorn can additionally be padded by a shrinking tube or Plasti Dip.

Standard:
1544 00 N
| 140 mm 140 g

eLite:
1544 50
| 137 mm 90 g

Replacement plastic jaw:

1544 01



Trident Pliers

For precise and easy adjustment of clip-on bridges.

Standard:
1513 00 N
| 140 mm 140 g

eLite:
1513 50
| 137 mm 100 g




Round Snipe Nose Pliers

Round jaws.

Standard:

1501 00 N

| 150 mm  140 g

eLite:

1501 50

| 148 mm  100 g




Round Snipe Nose Pliers with Notches

Round jaws.
Notches in both tips.

Standard:

1501 10 N

| 150 mm  140 g



Flat Snipe Nose Pliers – Extra Long

Flat inner jaws.
Extra long and thin version.

Standard:
1564 00 N
| 155 mm 140 g

eLite:
1564 50
| 148 mm 100 g



Flat Snipe Nose Pliers

Semi-circular jaws.

Standard:
1515 00 N
| 150 mm 140 g

eLite:
1515 50
| 148 mm 100 g



Flat Semi-circular Snipe Nose Pliers

One round jaw, one semi-circular jaw.

Standard:

1517 00 N

150 mm

140 g



Flat Nose Pliers 5 mm

5 mm width at tip.

Standard:

1523 00 N

150 mm

140 g



Flat Nose Pliers 3 mm

3 mm width at tip.

Standard:

1522 00 N

| 150 mm | 140 g

eLite:

1522 50

| 148 mm | 95 g



Nose Pad Removing Pliers

For removal of "push-in-type nose pads".

Standard:

1502 00 N

| 150 mm | 140 g

eLite:

1502 50

| 148 mm | 100 g




Size Testing Pliers

For testing lens size during the finishing process.

Standard:

1542 00 N

| 145 mm  140 g

eLite:

1542 50

| 139 mm  95 g




Size Testing Pliers – Large

For testing lens size during finishing process, with extra large mouth.

Standard:

1531 00 N

| 155 mm  140 g

eLite:

1531 50

| 145 mm  90 g

Handle cover for pliers –
your advantage at work from B & S

- Better grip
- Comfortable working



You will find our practical shrinking tubes for pliers handles on page B 46.



Nose Pad Adjusting Pliers – Universal

Perfect for adjusting click, screw or Primadonna pads.

Standard:

1550 10 N

150 mm

155 g

eLite:

1550 55

148 mm

120 g




Nose Pad Adjusting Pliers – Push-in Nose Pads

Especially for fitting push-in nose pads. Very delicate version to avoid touching the lens during fitting.

Standard:

1549 00 N

| 150 mm  140 g

eLite:

1549 50

| 147 mm  95 g




Nose Pad Adjusting Pliers – Screw-in Nose Pads

For screw-in nose pads. Improved, a more delicate version to avoid touching the lens during fitting.

Standard:

1546 00 N

| 150 mm  140 g

eLite:

1546 50

| 148 mm  95 g



TIPS & TRICKS

PRESSING AND REMOVING PLIERS FOR RIMLESS FRAMES

Compressing and Removing Sleeves is Easy and Simple!

Pressing Pliers with Rocker

No. 1567 00 N, 1567 50

Removing Pliers

No. 1568 00 N, 1568 50

Lens Protection Shim Plate
with Long Holes

No. 2269 10

Special Front Cutter
for Plastic Sleeves

No. 1569 50



approx. 5 minutes

This is how it works



COMPRESSING:

1 INSERTING



2 CUTTING



3 PLACING



REMOVING:

4 COMPRESSING



1 CUTTING



2 REMOVING



SWITCH THE JAW:

1 DISMANTLING



2 TURNING



3 TIGHTEN






Pressing Pliers with Rocker

For pressing in plastic sleeves on rimless frames such as Silhouette "Minimal Art" or similar models. With vertical and horizontal groove and **rocker to balance the angle**.

Standard:

1567 00 N

150 mm  140 g

eLite:

1567 50

148 mm  95 g

Replacement plastic jaws:

1567 01  1 pair




Removing Pliers with Rotatable Jaws

To remove plastic sleeves from the drill holes of rimless frames such as Silhouette "Minimal Art" or similar models. Rotatable jaw with vertical and horizontal pins.

Standard:

1568 00 N

150 mm  140 g

eLite:

1568 50

148 mm  95 g

Replacement plastic jaws:

1568 01  1 pair



Pressing Pliers

For pressing in plastic sleeves on rimless frames such as Silhouette "Minimal Art" or similar models.
With vertical and horizontal groove.

Standard:

1511 00 N
| 150 mm 145 g

eLite:

1511 50
| 145 mm 100 g

Replacement plastic jaws:

1511 01 1 pair



Pressing Pliers with O-rings

For pressing in plastic sleeves on rimless frames such as Silhouette "Minimal Art" or similar models. With horizontal groove. Comparable to model no. 1511 00 N, but is offered with a deeper groove and exchangeable rubber O-rings. Comes complete with 5 O-rings.

Standard:

1511 10 N
| 150 mm 145 g

Replacement plastic jaws:

1511 02 1 pair

Replacement O-rings:

1511 03 5 pieces



For years our bestseller and not without reason

With its rubberized, ergonomic handles and integrated opening spring for quick and automatic opening of the pliers, the special front cutter offers a high level of comfort for professional use in the workshop. The filigree cutting edges reduce the risk of scratching the glasses and set smooth cutting edges, even with soft plastic sleeves. The improved material properties of the cutting edge and the exclusive use of plastics guarantee a long service life.



Special Front Cutter for Plastic Sleeves

For cutting plastic sleeves on frames such as "Minimal Art" from Silhouette. The narrow shape of the jaws and the filigree cutting edges reduce the danger of scratching the lenses.

Not suitable for cutting metal.

Standard:

1569 00 N

140 mm 140 g

eLite:

1569 50

137 mm 95 g

With plastic grip and opening spring:

1569 11

115 mm 70 g



Special Side Cutter for Plastic

For cutting nylon liner near a drilled hole. The narrow shape of the jaws and the filigree cutting edges reduce the risk of scratching the lenses. **Not suitable for cutting metal.**

eLite:
1583 50
| 100 mm | 40 g

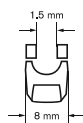


Special Pliers for Screwless Rimless Frames

Pliers with two notches for easy disassembly of screwless frames such as Silhouette "Minimal Art" or similar models.

Standard:
1518 00 N
| 140 mm | 140 g

eLite:
1518 50
| 137 mm | 95 g



You will find our practical shrinking tubes for plier handles on page B 46.




Rimless Frame Adjusting Pliers

Specially for aligning rimless spectacles.
Secure grip of the screws and nuts.

Standard:

1539 00 N

155 mm  140 g

Replacement plastic jaw:

1539 01




Screw Cutter

For cutting German Silver and brass screws on rimless frames.
Not suitable for steel screws.

Standard:

1578 00 N

130 mm  125 g



Hinge Setting or Angling Pliers

With two concave indentations,
parallel mouth gap at 1 mm.
Width of mouth: 4.0 mm

Standard:

1548 00 N
| 148 mm 140 g

eLite:

1548 50
| 137 mm 90 g



Hinge Adjusting Pliers

To easily bend and adjust roll joint.

Standard:

1555 00 N
| 145 mm 140 g



Hinge Adjusting Pliers

Width of mouth: 1.5 mm

Standard:

1538 00 N

| 148 mm

● 140 g



Windsor Rim Pliers

For notching or cutting of Windsor rims.

Standard:

1580 00 N

| 150 mm

● 150 g



TIPS & TRICKS

BIONIC THUMB

For the Necessary Strength in the Thumb

Bionic Thumb

No. 20 450 0000, 1000

Pro Screwdriver

No. 1664 ..



approx. 1 minute

This is how it works



FOR ADJUSTING:

1 TEMPLES



2 TEMPLE TIPS



3 FRAME FRONT



TO PROTECT:

4 NOSE PAD ARMS



1 SCREWING









Original Bionic Thumb

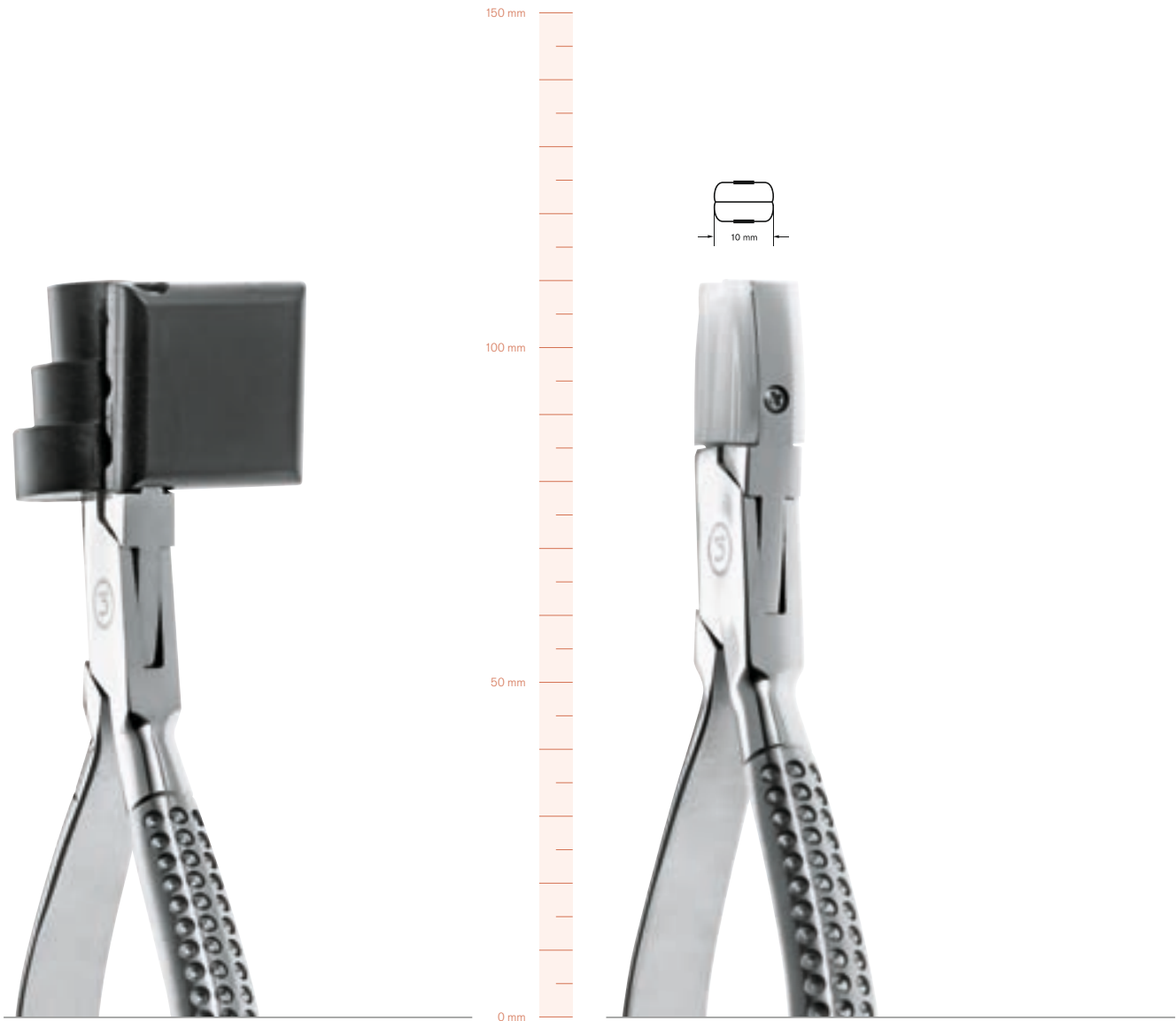
- For bending different frame parts
- Super handy and easy to use
- Made of brushed stainless steel with durable suede bending surfaces

20 450 0000  1 piece

 135 x 15 x 22 mm  90 g

20 450 1000  2 pieces

 135 x 15 x 22 mm  90 g



Temple Adjusting Pliers

One flat plastic jaw with three different grooves and one round plastic jaw with three different curves. Ideal to adjust all types of temples. The even distortion and constant pressure applied to the workpiece ensure a method of working which takes special care of the material.

Standard:

1541 00 N

150 mm 140 g

Replacement plastic jaws:

1541 01 1 pair



Temple Adjusting Pliers

With two special plastic jaws, one convex and one concave, both jaws have crossgrooves vertical to the curves.

Standard:

1530 00 N

150 mm 140 g

Replacement plastic jaws:

1530 01 1 pair



Peening Pliers

With screw on peening tip and point shaped sunken anvil to avoid marking the frame.

Standard:

1527 10 N

150 mm 140 g

eLite:

1527 50

140 mm 95 g

Replacement peening tips:

1537 02 3 pieces



Peening Pliers – Angled

Front part is angled for better handling in areas which are difficult to access. Screw on peening tip and point shaped sunken anvil to avoid marking the frame. Mouth remains in parallel position at a gap of approx. 3 mm.

Standard:

1527 20 N

145 mm 150 g

eLite:

1527 55

140 mm 110 g

Replacement peening tips:

1537 02 3 pieces



Lens Aligner 32 mm

Extra long jaws with straight ends, non-slip punched rubber discs.
Fixed rubber jaw: Ø 32 mm (punched Ø 15 mm), flexible rubber jaw:
Ø 26 mm, working clearance of jaws: 40 mm.

Standard:

1516 01 N

| 200 mm 240 g

Replacement rubber discs:

1532 01

1 pair

Replacement plate complete with spring:

1534 02



Lens Aligner 20 mm

Same as No. 1516 01 N, but with two Ø 20 mm discs.
Spring mechanism on the handle. Especially for small frames.

Standard:

1516 20 N

| 200 mm 240 g

Replacement rubber discs:

1535 20

1 pair



Chipping Pliers

With exchangeable jaws, including replacement jaws.

Standard:

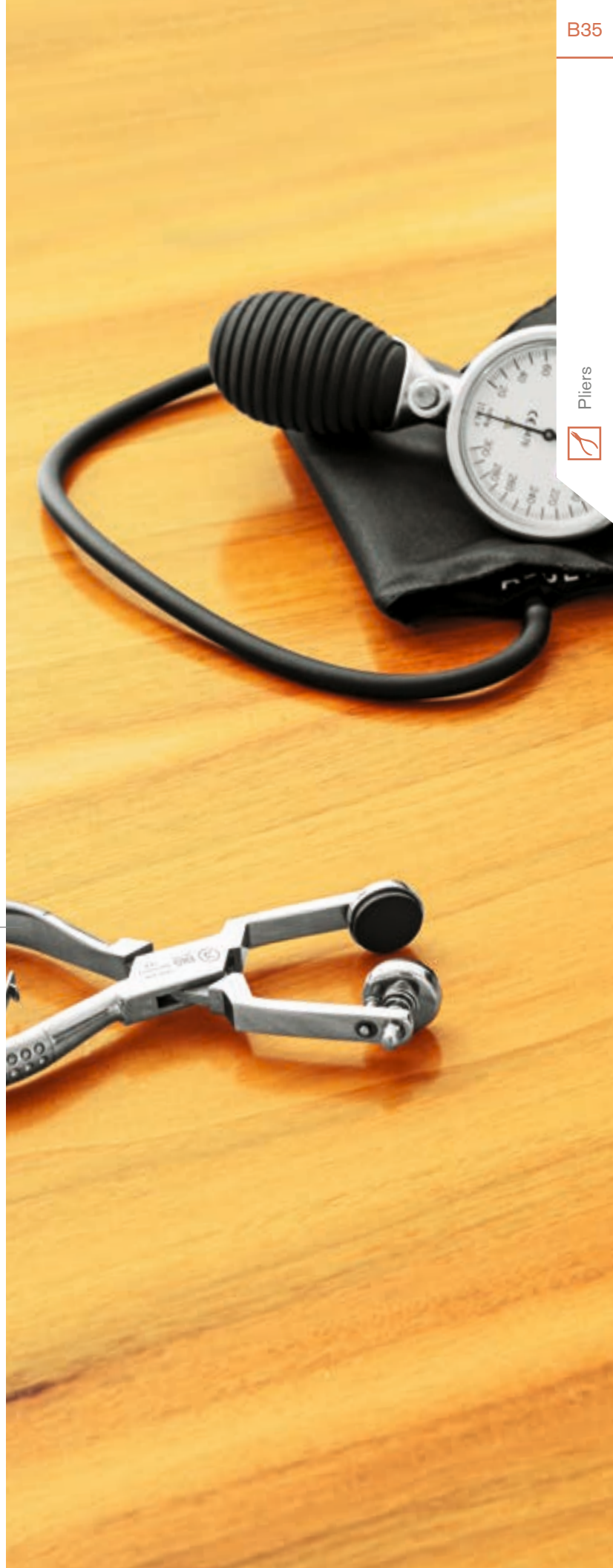
1561 00 N

145 mm 140 g

Replacement jaws:

1561 02

1 pair



Handle cover for pliers –
your advantage at work from B & S

- Better grip
- Comfortable working



You will find our practical shrinking tubes for pliers handles on page B 46.



De-Blocking Pliers

For easy removal of lens blocks made of plastic or silicone, application vertical.

Standard:

1520 00 N

148 mm

140 g



De-Blocking Pliers for NIDEK

Special pliers for de-blocking the NIDEK lens block suitable for NIDEK Mini Cup and the approved P-Cup.

Standard:

1592 00 N

148 mm 140 g



De-Blocking Pliers for NIDEK

Special pliers for de-blocking the NIDEK lens block suitable for NIDEK Mini Cup and the approved P-Cup.

eLite:

1591 50

145 mm 125 g

Replacement jaws:

1591 01 1 pair

Mark all your spectacle frames with your company logo.

We produce the stamp inserts according to specimen type or drawing you send to us with the order. If you do not prescribe the letter height we produce them in 1.5 mm. If the character has a border, this is adjusted in size ratio and the font height of 1.5 mm won't be changed. The maximum letter height is 2.0 mm. More than nine letters are not recommended, otherwise a perfect impression cannot be guaranteed.



Calculation of the stamp price

Use the order numbers below to determine the correct code for the number of characters. For example, if you would like to order the punch **BRO** for the CLAVULUS, you will find under No. 2125 33. This is only valid for letters that are DIN-Norm. **Special signs – engravings** such as spectacle frames, a monocle, a logo or other styles of writing and decoration, which are different to the above example and depending on the grade of difficulty **will be subject to a quotation**

Calculation examples for inserts with 1.5 mm letter height:

Examples of signs:		
K5	calculated as:	2 signs
B R O		3 signs
MEIER		5 signs
Special signs such as		
△, △, ○A, □7 ∞		



Marking Pliers

For marking spectacle frames. Inserts made to your request.

Standard:

1590 00

165 mm 280 g



Stamp for Marking Pliers
No. 1590 00

- 1590 31 1 sign
- 1590 32 2 signs
- 1590 33 3 signs
- 1590 34 4 signs



Stamp for CLAVULUS No. 2125 00,
2125 50 (see page A 46) and 2126 00
(see page A 42)

- 2125 31 1 sign
- 2125 32 2 signs
- 2125 33 3 signs




Side Cutter

With double joint and inserted hard metal cutting blades, used for hard wire and steel screws **up to 1.4 mm** diameter.

Standard:

1579 00 N

| 180 mm  240 g




Double Joint Front Cutter

With bevel, double joint and inserted hard metal cutting blades used for hard wire and steel screws **up to 1.4 mm** diameter.

Standard:

1579 79 N

| 170 mm  240 g



Front Cutter

With inserted hard metal cutting blades for stainless steel screws up to a maximum of 1.4 mm.

Standard:

1577 10 N

145 mm 140 g



Side Cutter

With inserted hard metal cutting blades for steel wires up to a maximum of 2.0 mm.

With plastic grip:

1581 00

175 mm 200 g



In case you use our side cutters with materials that are a greater diameter than is recommended, for example if you are cutting toughened steel, you risk breaking or damaging the side cutter. The cutting edges should if possible be used in the middle and not on the top or front edges.



Side Cutter

With inserted hard metal cutting blades for stainless steel screws **up to a maximum of 1.4 mm.**

Standard:

1570 00 N

140 mm 140 g



Side Cutter

For steel screws **up to a maximum of 1.6 mm**, with plastic grip.

With plastic grip:

1574 00

140 mm 145 g



Side Cutter

Larger version of the side cutter No. 1576 05.
For steel and titanium screws **up to 1.4 mm.**

With plastic grip:

1576 15

| 130 mm  100 g



Side Cutter

Extremely fine and pointed cutting surface for titanium and steel screws
up to a maximum of 1.2 mm.

With plastic grip:

1576 05

| 115 mm  75 g



TIPS & TRICKS

EASY MOUNTING OF SPRING HINGES

Make Spring Hinge Mounting a Piece of Cake!

Set of Spring Hinge Pliers

No. 1514 99

or separately:

Spring Hinge Pliers

No. 1514 55

Hand Tool

No. 1514 56

Screw Driving Tweezer

No. 1627 00

Spare Pins

No. 1514 58



approx. 1 minute

This is how it works



Pliers



Option 1: Mounting with pliers, tweezer and hand tool

1 ATTACHING



2 STRETCHING



3 HOLDING



4 CLAMPING



5 ATTACHING



6 TIGHTEN, RELEASE THE PLIER



Option 2: Mounting with pins, tweezer and hand tool | **Repeat step 1–3**

4 CLAMPING



5 ATTACHING



6 TIGHTEN, RELEASE THE PIN



Set of Spring Hinge Pliers

The pliers clamp just the eyelet of the hinge.
No scratching of the temple!
The eyelet of the hinge is clamped and locked with the pliers or the pins. This simplifies the screw fitting.
The handy clamping tool No. 1514 56, the pins No. 1514 58 and the tweezer No. 1627 00 are included.



“Easy Mounting of Spring Hinges”
(see page B 43)

1514 99



Spring Hinge Pliers with Pins and Tool


1514 55

Replacement tool:

1514 56

Spare pins:

1514 58

 3 pieces

Screw Driving Tweezer

1627 00



Pliers Stand

"Made in Germany", of beech wood with metal support for approx. 10 pliers, storage area with metal border.



Design
Award
Winner
2000

Compatible with
1664 50 Screwdriver-Set
in wooden block

With 4 screwdrivers, screwdriver blade 1.0;
1.4; 1.8 and 2.3 mm, plus 1 Phillips head
screwdriver size 2.0 mm

Contents not included!

1460 40

200 x 130 x 105 mm

960 g



Pliers



Pliers Stand

Colour: Transparent

Acrylic plastic, with 6 drill holes dia. 10 mm
and 6 drill holes dia. 12 mm to store screw-
drivers etc.

Contents not included!

1460 17

300 x 130 x 165 mm

700 g



Shrinking Tubes for Plier Handles

Cut to length of plier handles. The shrinkable handle cover has a structured surface for better grip. Both ends are open, fits tight to the handles after shrinking.

Ø 15 mm

- 1468 0 .

 4 pairs (each 8 cm)
- 1468 00

Black

1468 02

Red
- 1468 01

Blue

1468 03

Green
- 1468 1 .

 1 m
- 1468 11

Blue

Assortment with all colours

- 1468 50

 16 pairs (4 pairs each colour)





Pliers Stand

Stainless steel, to store approx. 10 pliers.
With rubber feet to avoid scratches on the table top


Contents not included!

1461 10

 180 x 100 x 110 mm  450 g

Matching rubber rings
Colour: Black

- 1461 11

 4 pieces



Pliers Stand



Transparent acrylic plastic, to store up to 5 pliers or 10 pliers.
Pliers stand comes unassembled, can easily be assembled without tools.

Contents not included!

New size:



- 1460 18

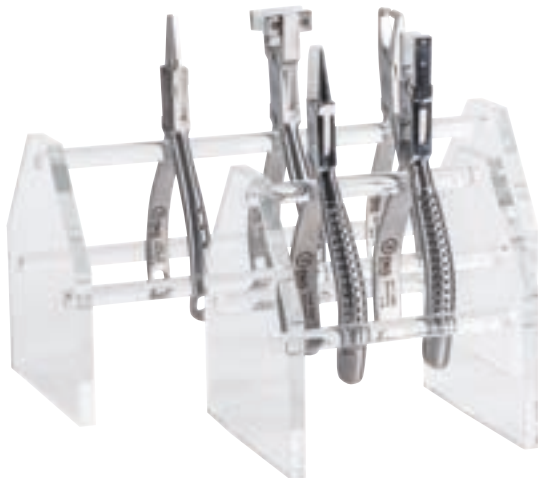
For approx. 5 pliers

 120 x 125 x 120 mm  200 g

- 1460 19

For approx. 10 pliers

 238 x 112 x 125 mm  400 g





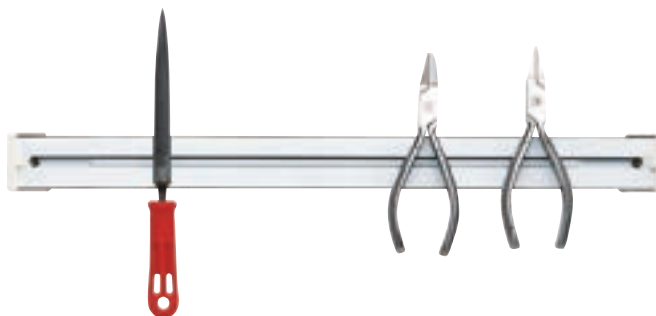
Magnetic Tool Bar ECO

Contents not included!

1411 05

 500 x 140 x 23 mm

 375 g



B & S Tool Case including Tools

Handy kit ready to go!
It contains the most useful pliers and spare parts for adjusting and refurbishing spectacles.

Including the following tools:

1x 1558 55, 1x 1551 50, 1x 1549 50,
1x 1548 50, 1x 1651 00, 1x 1626 00,
1x 1683 90, 1x 2373 00, 1x 1639 00,
1 accessory box with nose pads and screws

1464 00

 270 x 150 x 50 mm


 730 g



Tool Bag Small for Belt Wear

Practical tool bag to wear on a belt.
To store pliers, pens, PD-rulers, etc.

1467 00

 190 x 210 x 190 mm

 430 g







PRECISION TOOLS

for complicated procedures



- C 2 Screwdrivers & Nutdrivers
- C 14 Third Hand
- C 15 Rook Anvil
- C 16 Tweezers
- C 18 Cutting Tools
- C 21 Reamers
- C 22 Screw Taps
- C 24 Tips & Tricks: Lens Protection Henry
- C 26 Tips & Tricks: Nylon Liner Tool
- C 27 Rimless Frames Glazing Tools
- C 28 Tips & Tricks: Screw Cutter
- C 31 Small Tools
- C 32 Drills and Millers
- C 37 Tool Holders
- C 38 Files
- C 42 Ball Joint Vices
- C 43 Saws

B & S Screwdrivers for Professionals “Made in Germany”

Durability, precision and perfect function.

No twisting or chipping of the screwdriver blades: hardened and refined knife blade steel for the perfect combination of hardness and flexibility.

Quickchange of the blade: perfectly accurate fit between blade and grip by simple clamping.

No pressure marks in your hand: ergonomic design, proven to work, offers a high level of functionality.

Don't be satisfied with anything less.

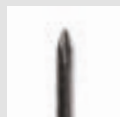
B & S Designed Pro Screwdriver

- Blade changing support for screwdriver and nutdriver
- With longer grip surface and bigger knob for comfortable work
- Coloured knob, the oval shape prevents the screwdriver moving on the workbench
- Shaft size 2.5 mm, blades to be clamped

1664 . . | 115 mm



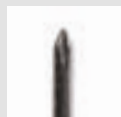
1664 01
Green



Blade width:
+ 1.5 mm

Spare blade:
1711 26

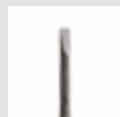
1664 00
Green



Blade width:
+ 2.0 mm

Spare blade:
1711 25

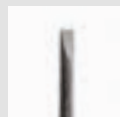
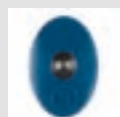
1664 10
Grey



Blade width:
- 1.0 mm

Spare blade:
1711 10

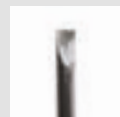
1664 14
Blue



Blade width:
- 1.4 mm

Spare blade:
1711 14

1664 18
Red



Blade width:
- 1.8 mm

Spare blade:
1711 18

1664 23
Black



Blade width:
- 2.3 mm

Spare blade:
1711 23



Spare blades: Shaft size 2.5 mm, blades to be clamped

3 pieces

Pro Screwdriver Set

- In a semi-circular wooden stand
- With 5 screwdrivers from the B & S Pro series 1664 . .
- 4 slotted blades 1.0; 1.4; 1.8; 2.3 mm, 1 Phillips head 2 mm

1664 50



Design
Award
Winner
2000

Insertion Cup Holder Set

- 5 insertion cups, marked with different sizes
- To insert into desktops or the dispensing area

1465 50





OptiCar – Including Screwdrivers

- High quality metal design with free moving solid rubber wheels
- With 5 screwdrivers from the B&S Pro series 1664 ..
- 4 Slotted blades 1.0, 1.4, 1.8, 2.3 mm
- 1 Phillips head 2.0 mm

1664 60



Revolving Depot

- Revolving aluminium stand
- With 6 screwdrivers from the B&S Pro series 1664 ..
- 4 Slotted blades 1.0; 1.4; 1.8; 2.3 mm
- 2 Phillips head 1.5 and 2.0 mm

1664 61



Plastic Depot

- With 6 screwdrivers from the B&S Pro series 1664 ..
- 4 Slotted blades 1.0; 1.4; 1.8; 2.3 mm
- 2 Phillips head 1.5 and 2.0 mm

1664 62



 3 pieces



OptiCar – Including Nutdrivers

- High quality metal design with free moving solid rubber wheels
- With 5 nutdrivers from the B & S Pro series 1664 ..
- 2 Hexagon 2.3; 2.6 mm
- 3 Star 2.1; 2.2; 2.6 mm

1664 70



Revolving Depot

- Revolving aluminium stand
- With 8 nutdrivers from the B & S Pro series 1664 ..
- 4 Hexagon 2.0; 2.2; 2.3; 2.6 mm
- 4 Star 2.0; 2.1; 2.2; 2.6 mm

1664 71



Plastic Depot


- With 8 nutdrivers from the B & S Pro series 1664 ..
- 4 Hexagon 2.0; 2.2; 2.3; 2.6 mm
- 4 Star 2.0; 2.1; 2.2; 2.6 mm

1664 72



















B & S Screwdriver from the Standard Series

- Blade changing support for screwdriver and nutdriver
- Ribbed grip surface for perfect grip
- Coloured, **round knob flattened on one side**, to prevent the screwdriver moving on the workbench
- Wing blades to avoid twisting inside the handle
- Shaft size: 3.0 mm, wing blade

1682 ..  110 mm



1682 01 Green	1682 00 Green	1682 10 Grey	1682 14 Blue	1682 18 Red	1682 20 Black	1682 23 Black
						
						
Blade width: + 1.5 mm	Blade width: + 2.0 mm	Blade width: - 1.0 mm	Blade width: - 1.4 mm	Blade width: - 1.8 mm	Blade width: - 2.0 mm	Blade width: - 2.3 mm
Spare blade: 1682 46	Spare blade: 1682 45	Spare blade: 1682 30	Spare blade: 1682 34	Spare blade: 1682 38	Spare blade: 1682 40	Spare blade: 1682 43
						
Spare blades: Shaft size 3.0 mm, wing blade						
 3 pieces						

Revolving Depot

- With 6 screwdrivers from the B & S Standard series 1682 ..
- 4 Slotted blades 1.0; 1.4; 1.8; 2.3 mm
- 2 Phillips head 1.5 and 2.0 mm

1682 61



Plastic Depot


- With 6 screwdrivers from the B & S Standard series 1682 ..
- 4 Slotted blades 1.0; 1.4; 1.8; 2.3 mm
- 2 Phillips head 1.5 and 2.0 mm

1682 62




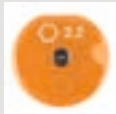


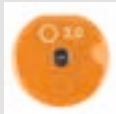

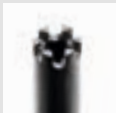


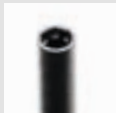








B & S Nutdriver from the Standard Series

- Blade changing support for screwdriver and nutdriver
- Ribbed grip surface for perfect grip
- Coloured, **round knob flattened on one side**, to prevent the screwdriver moving on the workbench
- Wing blades to avoid twisting inside the handle
- Shaft size: 3.0 mm, wing blade

1682 ..  110 mm



1682 70 ⊕ 2.2 mm	1682 72 ⬡ 2.6 mm	1682 73 ⊕ 2.6 mm	1682 74 ⬡ 2.2 mm	1682 75 ⊕ 2.0 mm	1682 76 ⊕ 2.1 mm	1682 78 ⬡ 2.0 mm	1682 79 ⬡ 2.3 mm
							
							
Star nuts, 6 points	Big hex nuts	Big star nuts, 6 points	Small hex nuts	Big star nuts, 4 points	Star nuts, 6 points, for the most common nuts	Hex socket star type, 6 points	Hexagonal, for dome nuts
Spare blade: 1682 80	Spare blade: 1682 82	Spare blade: 1682 83	Spare blade: 1682 84	Spare blade: 1682 85	Spare blade: 1682 86	Spare blade: 1682 88	Spare blade: 1682 89
				Spare blades: Shaft size 3.0 mm, wing blade			
				 2 pieces			



Revolving Depot

- With 8 nutdrivers from the B & S Standard series 1682 ..
- 4 Hexagon 2.0; 2.2; 2.3; 2.6 mm
- 4 Star 2.0; 2.1; 2.2; 2.6 mm

1682 91



Plastic Depot

- With 8 nutdrivers from the B & S Standard series 1682 ..
- 4 Hexagon 2.0; 2.2; 2.3; 2.6 mm
- 4 Star 2.0; 2.1; 2.2; 2.6 mm

1682 92



B & S Hex Driver from the Standard Series

- Blade with wings is fixed with an additional screwed cover
- Ribbed grip surface for perfect grip
- Coloured, **round knob flattened on one side**, to prevent the screwdriver moving on the workbench
- Hex driver for screws with hex bolt
- Shaft size: 3.0 mm

1684 . . | 110 mm



1684 13

Hexagon 1.3



1684 15

Hexagon 1.5



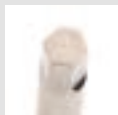
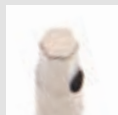
1684 20

Hexagon 2.0



1684 21

Hexagon 2.1



Spare blade:

1684 63

Spare blade:

1684 65

Spare blade:


1684 70

Spare blade:

1684 71

Spare blades:

Shaft size 3.0 mm, wing blade

 3 pieces



You will find our Torx screws
on page F 40.



B&S Torx Driver from the Standard Series

- Blade with wings is fixed with an additional screwed cover
- Ribbed grip surface for perfect grip
- Coloured, **round knob flattened on one side**, to prevent the screwdriver moving on the workbench
- Torx driver for screws with star bolt
- Shaft size: 3.0 mm

1684 .. | 110 mm



1684 32 Torx 2	1684 33 Torx 3	1684 34 Torx 4	1684 35 Torx 5	1684 36 Torx 6
Spare blade: 1684 82	Spare blade: 1684 83	Spare blade: 1684 84	Spare blade: 1684 85	Spare blade: 1684 86

Spare blades:
Shaft size 3.0 mm, wing blade

3 pieces

Torx Screw Driver Set

- Grips of the 1682 .. series including blades
- Torx driver set in a handy box
- Blade with wings is fixed with an additional screwed cover
- Blue knobs with marking simplifies the identification
- Coloured, **round knob flattened on one side**, to prevent the screwdriver moving on the workbench
- With 4 screwdriver: Torx sizes 3, 4, 5 and 6

1684 50




B & S Designed Screwdriver with Blade Storage

With large **oval** revolving plastic knob and 5 blades (accomodated in handle).
The oval head prevents the screwdriver moving on the workstation.
Shaft size: 2.5 mm
Blade width: ● 1.0; 1.4; 1.8; 2.3 mm, ⊕ 2.0 mm

1666 00 |—| 119 mm ●▲ 35 g




 Suitable replacement blades No.1711 .. can be found on page C 2.

Screwdriver with Blade Storage

With plastic grip, large round revolving knob and 5 blades (accomodated in handle).
Shaft size: 2.5 mm
Blade width: ● 1.0; 1.4; 1.8; 2.3 mm, ⊕ 2.0 mm

1678 00 |—| 119 mm ●▲ 31 g




 Suitable replacement blades No. 1711 .. can be found on page C 2.

Screwdriver with Blade Storage

Same design as No. 1678 00, but with one blade only.
Shaft size: 2.5 mm
Blade width: ● 1.8 mm

1690 00 |—| 119 mm ●▲ 21 g




 Suitable replacement blade No. 1711 .. can be found on page C 2.

Universal Screwdriver with Blade Storage

Nickel plated brass, with revolving plastic knob and 4 blades.
Shaft size: 2.5 mm
Blade width: ● 1.5; 1.8; 2.3 mm, ⊕ 2,0 mm

1717 00 |—| 115 mm ●▲ 30 g



 Suitable replacement blades No. 1711 .. can be found on page C 2.



Small Metal Screwdriver

- With 5 different functions: Slotted, Phillips and 3 nutdriver blades
- Blade width: 1,8 mm, 1,8 mm
- Nutdriver: 2.02; 2.32 and 2.57 mm
- Colours: Blue, Red, Green, Purple, Orange

In poly bag:

1798 16 10 pieces (2 per colour)



Counter Display

- With 10 small screwdriver No. 1798 .., with 5 functions
- Dimensions: DIN A4

1798 56



Spare Blades

Blade width = Shaft size	Type	Kind of blade	Available for	Order No.	
1.0 mm		Blade	1662 10*, 1680 10*, 1700 10*	1693 10	3 pieces
1.5 mm		Blade	1662 15*, 1680 15*, 1700 15*	1693 15	3 pieces
1.8 mm		Blade	1662 18*, 1680 18*, 1700 18*	1693 18	3 pieces
2.3 mm		Blade	1662 23*, 1680 23*, 1700 23*, 1723 ..	1693 23	3 pieces
1.0 mm		Blade	1669 ..	1669 10	2 pieces
1.4 mm		Blade	1669 ..	1669 14	2 pieces
1.8 mm		Blade	1669 ..	1669 18	2 pieces
2.3 mm		Blade	1669 ..	1669 23	2 pieces
2.0 mm		Crossblade	1669 ..	1669 25	2 pieces
2.6 mm		Nutdriver big hex nuts	1669 ..	1669 42	2 pieces
2.6 mm		Nutdriver big star nuts, 6 points	1669 ..	1669 43	2 pieces
2.2 mm		Nutdriver small hex nuts	1669 ..	1669 44	2 pieces
2.0 mm		Nutdriver star nuts, 4 points	1669 ..	1669 45	2 pieces
2.1 mm		Nutdriver star nuts, 6 points	1669 ..	1669 46	2 pieces
2.8 mm		Nutdriver slotted nuts	1669 ..	1669 47	2 pieces
2.0 mm		Nutdriver hex socket star type	1669 ..	1669 48	2 pieces
2.3 mm		Nutdriver hex for cap nuts	1669 ..	1669 49	2 pieces
2.2 mm		Nutdriver star nuts, 6 points	1669 ..	1669 67	2 pieces
3.6 mm		Nutdriver ornamental screws	1669 ..	1669 69	2 pieces

* discontinued

A perfect Set.

From the Black Forest in Germany onto your work-bench. Assorted by sizes in a beech wooden case. Seven lean nutdrivers with the most used nutdriver blades made of high quality steel. The stop inside the blade which is typically for B & S nutdrivers prevents the nut from annoyingly "disappearing" into the shaft.

Nutdriver Set

Content 7 nutdrivers:
No. 1742 00; 1743 00; 1744 00; 1745 00;
1746 00; 1748 00 and 1767 00

1741 15 13.5 x 2.4 x 12 cm



Single available:								
17. ...								
100 mm 15 g								
1742 00	1743 00	1744 00	1745 00	1746 00	1747 00	1748 00	1749 00	1767 00
2.6 mm	2.6 mm	2.2 mm	2.0 mm	2.1 mm	2.8 mm	2.0 mm	2.3 mm	2.2 mm
Grip No. 2	Grip No. 3	Grip No. 4	Grip No. 5	Grip No. 6	Grip No. 7	Grip No. 8	Grip No. 9	Grip No. 0
Big hex nuts	Big star nuts, 6 points	Small hex nuts	Big star nuts, 4 points	Star nuts, 6 points, for the most common nuts	Slotted nuts	Hex socket star type, 6 points	Hexagonal, for dome nuts No. 0839 .. and No. 0840 ..	Star nuts, 6 points, for big star nuts

Nutdriver Set

Content 5 nutdrivers:
No. 1743 00; 1744 00; 1745 00; 1746 00 and 1748 00

1741 05 13.5 x 2.7 x 9.6 cm



The number on the grip identifies the order code.



Broken screw? No problem!

Here precision and comfort goes hand in hand. Broken screws can be pushed out cleanly and precisely with this handy tool. Simply fit on the hand CLAVULUS, tighten up the wing screw and with a few turns there will be space for a new screw.

Handheld CLAVULUS

- For the removal of broken screws
- Compact and ergonomic tool
- Power precisely through the wing screw
- For material saving use
- 3 exchangeable sleeves for different screw diameters included
- Hardwearing material (stainless steel)

1727 00



Screw Remover with Blade Storage

The sharp edged blades grip the remains of broken off screws and enable you to unscrew the screw without the use of drilling machines.

Shaft size: 2.5 mm

Each unit includes 2 blades with diameter: 1.3 and 1.5 mm

1691 00 | 119 mm | 25 g



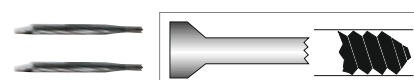
Spare Blades

Blade width 1.3 mm

1691 13

Blade width 1.5 mm

1691 15



Aluminium Stand “Third Hand”

- Stable stand
- With 3 exchangeable blades in the socket for securing screws or nuts
- Shaft size: 2.5 mm, blades to be clamped

1 **screwdriver blade:** Blade width: 2,3 mm
1 **hex nutdriver:** Inner diameter: 2.2 mm
1 **star nutdriver:** Inner diameter: 2.1 mm

1723 00



Suitable replacement blades No. 1711 .. can be found on page C 2.

Metal Stand “Third Hand”

- Stable stand
- With 5 exchangeable blades and 7 functions for securing screws or nuts
- Shaft size: 3.15 mm, wing blade

1 **screwdriver blade with double sided function:**
Blade width: 1.5 and 1.8 mm
1 **screwdriver Phillips head blade with double sided function:**
Blade width: 1.5 and 1.8 mm
3 **nutdriver blades (hexagon):**
Inner diameter: 2.0, 2.3 and 2.5 mm

1728 00

Spare Blade Set

To metal stand “Third Hand” No. 1728 00.
Containing 5 blades.

1728 01



“Third Hand” Stand with Nut Gripper

- A new combination of third hand stand and nut gripper
- Stable stand
- Retains nuts so that they can be screwed to the thread
- For problem free gripping of nuts

1723 20



Aluminium Stand “Third Hand” Extra Tall for Large Wing Blades

- Stable stand
- With 5 exchangeable blades and 7 functions for securing screws or nuts
- Shaft size: 3.15 mm, wing blade

1 **screwdriver blade with double sided function:**
Blade width: 1.5 and 1.8 mm
1 **screwdriver Phillips head blade with double sided function:**
Blade width: 1.5 and 1.8 mm
3 **nutdriver blades (hexagon):**
Inner diameter: 2.0; 2.3 and 2.5 mm

1728 10




“Easy Mounting of Spring Hinges”
(see page B 43)

Fully developed. Workplace with high quality all-rounders.

This anvil tower is produced exclusively for B&S. With its unusual shape this heavy weight offers a range of advantages: Secure standing with its massive aluminium foot. Flexibility due to the handy size. Small repairs can be fixed on the round platform. Protecting the table surface from damage makes the rook anvil attractive to use for service repairs during a consultation. Depositing area for frame parts on the top. Just try it. Everyone who tries it will never want to be without it again.


Rook Anvil

- To fix screws on joints, hinges and nose pad arms
- Robust and stable, made of solid aluminium
- Depositing area for frame parts
- Cushioned base for gently carrying out work
- Can be fixed on the table by a standard M6 screw
- For workshop and sales area

1729 00
 Base x height: 80 x 80 mm

 300 g


Spare Rubber Ring

1729 01  2 pieces

Optician's Anvil

- Polished chrome-plated, with round opening, one round and one square-shaped drift

1730 10  120 x 45 x 25 mm  425 g



Screw Driving Tweezer

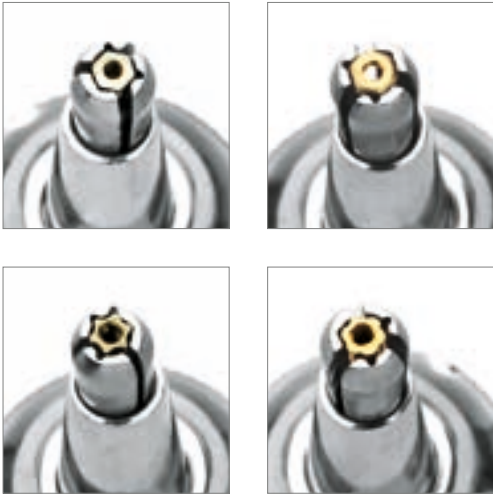
- Easy fixation of the screw by means of a lock at the middle of the tweezer
- Screw is fixed and ready to screw in, essential for spring hinges
- Moving knob at the end of the handle enables easy screwing

1627 00  130 mm  30 g


Nut Gripper


- Retains nuts so that they can be screwed to the thread
- For problem free gripping of **nuts**

1639 00 |---| 100 mm  35 g



Gripper


- Recessed both sides to pick up, grip and twist **screws**

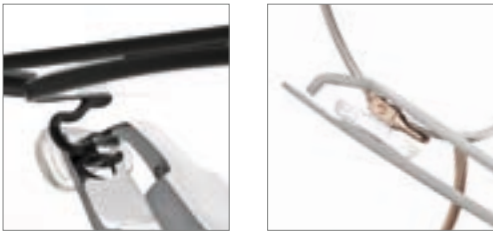
1636 00 |---| 75 mm  180 g



Tweezer – Push-in Nose Pads

- For removal of “push-in nose pads”
- Also available as pliers

1626 00 |---| 100 mm  15 g



You will find our pliers No. 1502 00 N and 1502 50 on page B 18.

Tweezer – Thin Pointed

- With thin pointed tips, stainless steel

1631 00 |---| 110 mm  17 g



Tweezer – Pointed

- Pointed, nickel plated

1621 00 |---| 110 mm  18 g



Titanium Soldering Tweezer

- Advantages: solder resistant, low heat conduction, 100 % anti-magnetic, highly acid resistant, extremely light, with centering pin

1623 10 |---| 160 mm  15 g



Solder Tweezer

- With insulated grips, polished steel

1624 00 |---| 160 mm  35 g



Screw Holder

Angled – with Locking Mechanism


- A slotted notch in the tip to grip nose pads and hinge screws easily
- With a clamp to lock the screw
- The angled tip is useful for difficult to reach hinges

1653 00 | 110 mm  11 g



The Classic

- With grooves on both tips to hold pad screws and other small items

1651 00 | 130 mm  30 g



Pointed Tip


- **Stainless steel**, straight version
- Specially for pad screws
- To start rotating the screw into the thread

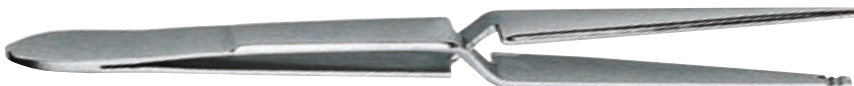
1634 00 | 105 mm  10 g



Cross Tweezer


- To start rotating the screw into the thread

1625 00 | 155 mm  32 g



Screw Holder with Locking Mechanism

- The locking mechanism ensures that the screw is held tightly
- Essential when fitting a screw to a spring hinge

1637 00 | 135 mm  30 g



Riveting Hammer

- Gunmetal finish, round head, wooden handle

1781 10

| 260 mm 80 g



Riveting Hammer

- Metal, bi-colour, round heads, one side metal, one side plastic

1772 00

| 240 mm 100 g

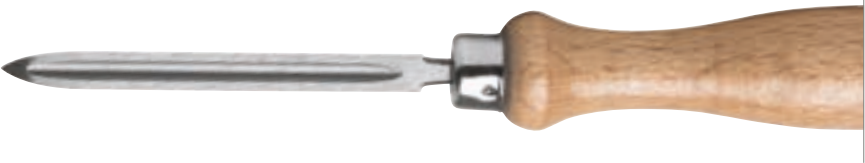


Trident Scraper

- Conical, with handle

2071 00

| 165 mm 25 g



Swarf Removal Tool

- Removing the edging residue from polycarbonate and Trivex lenses
- Deburring the groove of lenses for half rimless

2072 00

| 95 mm 10 g



Groove Scraper

- Suitable for rough and smooth surfaces
- Adjustable for each size

2073 10

| 145 mm 40 g





Glass Cutter

- The traditional "Silberschnitt" superior quality "Made in Germany"



2634 00

130 mm 25 g

Cutting Spoon

- For cutting glass
- Mechanised system, handy design, metal type



2637 00

150 mm 30 g

Universal Cutting Wheel

- Superior quality "Made in Germany"
- For glass cutter No. 2634 00 and cutting spoon No. 2637 00



Illustration enlarged

2239 00

4.5 mm 12 pieces

Safety Knife

- Springback mechanism: the blade automatically springsback inside the knife after usage
- Rubber covered handle
- High quality trapezoidal blade
- Width of the blade: 18 mm



1603 00

145 mm 65 g

Spare Blades for No. 1603 00

- Width of the blade: 18 mm

1603 01

60 mm 10 pieces



Multipurpose Scissors

- With plastic covered handles for easy cutting of pattern blanks
- One sided toothed cut (serrated edge)
- With lock to prevent accidental opening

1607 10 |---| 145 mm ●●▲ 62 g



Small Scissors

- With straight blades and screwed joint

1614 00 |---| 60 mm ●●▲ 18 g



Scissor

- Refined stainless steel, adjustable with screw
- Suitable for right and left-use

1613 10 |---| 200 mm ●●▲ 90 g



Scalpel with Metal Handle

- Practical cutting tool for frame inserts, nylon threads, foils etc.
- No squeezed edges due to extremely sharp blades
- Metal handle **with 3 bits**
- Blade length: 35 mm

1602 10 |---| 150 mm ●●▲ 15 g



Spare Blades for No. 1602 10

1602 15 |---| 35 mm ☐ 3 pieces



Scalpel Set

- For cutting nylon liner
- Content: 1 handle and 8 blades in different shapes and sizes

1604 00 ☐ 160 x 40 x 40 mm ●●▲ 100 g





Reamers

- 5-sided, high-polished, **without handle**, with shaft

2051 .. 3 pieces

Order No.	Ø	Order No.	Ø
2051 31	1.0 mm	2051 36	1.7 mm
2051 32	1.1 mm	2051 37	1.9 mm
2051 33	1.2 mm	2051 38	2.0 mm
2051 34	1.3 mm	2051 39	2.2 mm
2051 35	1.6 mm		



Reamer Assortment

- 5-sided shaped reamers, fine grade, **with knurled handle**
- Reamers-Ø: 1.0; 1.1; 1.2; 1.4; 1.6 and 1.8 mm

2053 00 25 g 6 pieces



Reamer Assortment for Single Jets

- With plastic handle, for cleaning of jets
- Reamers-Ø: 0.05; 0.08; 0.10; 0.15; 0.20; 0.25; 0.30; 0.35; 0.40; 0.45; 0.50 and 0.55 mm

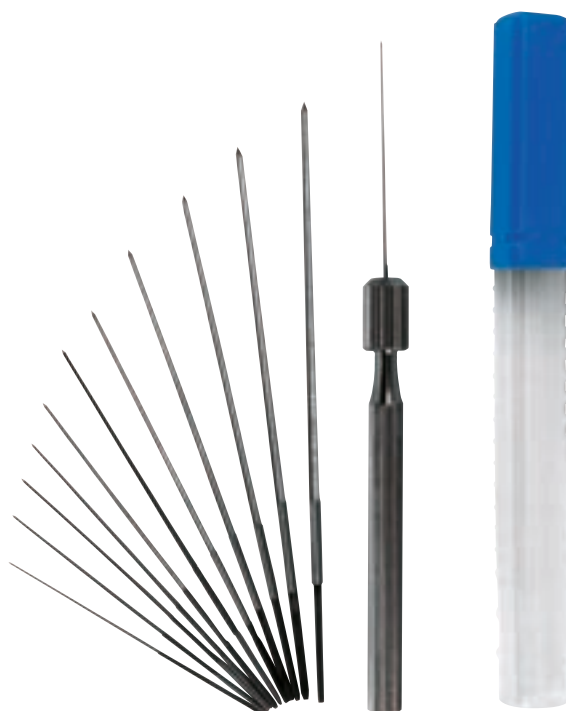
2840 20 11 g 12 pieces



Reamer Assortment

- 5-sided reamers, fine grade **without handle**, **with shaft and with holder**
- Contents:** No. 2051 31; 2051 32; 2051 33; 2051 34; 2051 35; 2051 36; 2051 37; 2051 38 and 2051 39

2050 00 30 g 12 pieces



Screw Tap

- With 3 milled grooves, expertly ground and hardened for top quality finish
- For correct order no's see chart below



1962 ..  3 pieces



Illustration enlarged

Screw Tap Handle

- Plastic, marked with individual tap sizes
- For correct order no's see chart below

1736 ..  85 mm  10 g



Thread size	Shaft size	Order No. for screw taps	Order No. for screw tap handles
M 0,80 mm	1,45 mm	1962 08	1736 08
M 1,00 mm	1,45 mm	1962 10	1736 10
M 1,10 mm	1,45 mm	1962 11	1736 11
M 1,20 mm	1,45 mm	1962 12	1736 12
M 1,30 mm	1,45 mm	1962 13	1736 13
M 1,40 mm	1,45 mm	1962 14	1736 14
M 1,50 mm	1,75 mm	1962 15	1736 15
M 1,60 mm	1,95 mm	1962 16	1736 16
M 1,70 mm	1,95 mm	1962 17	1736 17
M 1,80 mm	2,00 mm	1962 18	-

Screw Tap Assortment

- In wooden box
- **Contents:** 9 screw taps, ready to use, in sizes: M 0.80; M 1.00; M 1.10; M 1.20; M 1.30; M 1.40; M 1.50; M 1.60; M 1.70; 1 mandrel No. 1718 00 and 1 empty space

1980 00



Screw Tap Assortment

- **Contents:** 3 screw taps of each No. 1962 08; 1962 10; 1962 12; 1962 13; 1962 14 and 1 tool holder No. 2062 00

1981 00





Measurement Tool for Holes 1.0 to 1.6

- Easy and quick measuring of hole sizes in lenses
- With rounded tips for an easy measuring of hole sizes in lenses
- High quality design
- 6 spikes in sizes: 1.0; 1.2; 1.3; 1.4; 1.5 and 1.6 mm

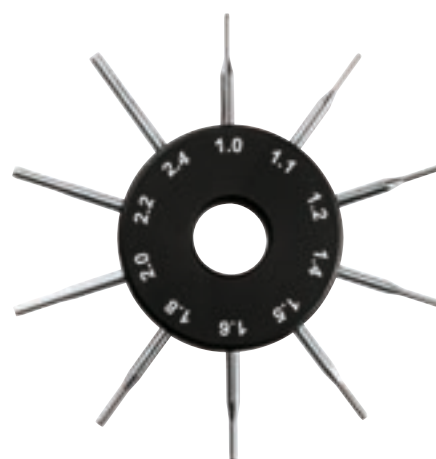
1718 11 Outer: 65 mm 10 g



Measurement Tool for Holes 1.0 to 2.4

- Easy and quick measuring of hole sizes in lenses
- With rounded tips for an easy measuring of hole sizes in lenses
- High quality design
- 10 spikes in sizes: 1.0; 1.1; 1.2; 1.4; 1.5; 1.6; 1.8; 2.0; 2.2 and 2.4 mm

1718 12 Outer: 80 mm 26 g



Mandrel

- Special support for screw setting on hinges
- Conical
- With plastic handle

1718 00 105 mm 10 g



Spare Mandrel

- For No. 1718 00

1718 01



TIPS & TRICKS

HENRY – A LITTLE HELPER IN MANY SITUATIONS

Triple Protection against Scratches

Lens Protection Henry
made of **Silicone**
No. 2272 00

Screwdrivers for Professionals
No. 1664 ..

Precision File
No. 1868 00

Side Cutter
No. 1579 00 N

3 approx. 3 minutes each

This is how it works



Option 1: While mounting nose pads

1 ATTACH



2 MOUNTING OF NOSE PADS



Option 2: While mounting rim joints

1 ATTACH



2 UNSCREW/TIGHTEN



Option 3: Cutting screws on rimless frames

1 ATTACH



2 CUT OFF






3 LEVEL WITH A FILE





Lens Protection Henry



- Protects the lenses from scratches: while mounting nose pads, during the assembly of rimless frames and while mounting rim joints
- Made of silicone

2272 00  60 x 80 mm  1 g  2 pieces



Lens Protection Shim Plate

- Distance and protection plate for easily cutting plastic sleeves (1.4 and 1.8 mm) close to the lens
- Nylon liner (max. 1.0 mm diameter) can be fixed and shortened easily close to the lens
- Suitable to remove remnants from PC lenses after the edging process

2269 00  55 x 20 mm  1 g



Lens Protection Shim Plate with Long Holes

- Distance and protection plate for easily removing the sleeves
- Facilitates the dismounting of the frame
- Suitable to remove remnants from PC lenses after the edging process

2269 10  50 x 11 mm  1 g





TIPS & TRICKS

NYLON LINER TOOL

Finally the Threading is Fun

- Nylon Liner Tool
No. 1365 00
- Tweezer – Thin Pointed
No. 1631 00
- Nylon Thread Hook
No. 1719 00
- Small Scissors
No. 1614 00

5 approx. 5 minutes each

This is how it works



1 TAKE OFF



2 REMOVE



3 THREAD



4 SET IN



5 CUT TO SIZE



6 THREAD



7 INSERT



Nylon Liner Tool

For easy threading of the 8-profile nylon liner into the upper or lower frame rim.

- Total length: 110 mm
- Diameter cylinder: 15 mm
- Nylon liner: 0.51 mm and 0.55 mm

1365 00



You will find our Nylon Thread Hook No. 1719 00 on page C 32.

Nylon Thread Hook

- For easy assembly of lenses into supra frames

1719 00 | 105 mm | 13 g



You will find our nylon threads on page F 85.



Sleeve Removing Tool for Rimless Frames

- Small tool which helps to get the frame and leftovers from the sleeves out of the lens
- Fits for all frames with 1.4 pins and standard drill hole distances

2267 10 Blue Ø 1.4 mm

75 x 10 x 25 mm 7 g






TIPS & TRICKS

FITTING TOOL FOR RIMLESS FRAMES

Shorten Screws without a Burr!

Works as a Nut Driver and
Screw Cutter in One Tool
For screws with 1.2 mm thread size
No. 2268 00
For screws with 1.4 mm thread size
No. 2268 01



 approx. 30 seconds

This is how it works

1 MOUNTING



2 TURN AROUND



3 ATTACHING



4 CUTTING



5 DONE





Works as a Nut Driver and Screw Cutter in One Tool

2268 .. 70 mm 6 g

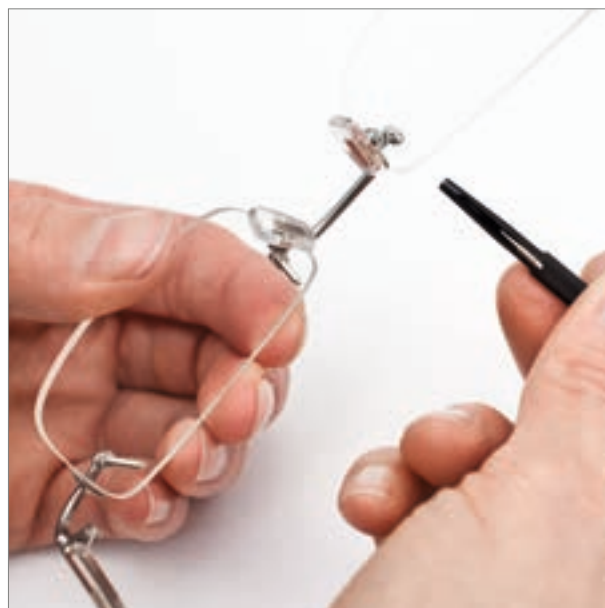


2268 00

- To shorten screws with **1.2 mm** thread
- For all popular hex nuts with an outer diameter of max. **2.7 mm**

2268 01

- To shorten screws with **1.4 mm** thread
- For all popular star nuts with an outer diameter of max. **2.5 mm**



Drill Hole Chamfer Tool

- For easy chamfering of drill holes
- The special shape chamfers the edges quickly and effectively using just slight pressure
- Countersinks are no problem
- Clockwise rotation for clean, optimum results
- Only recommended for plastic, Polycarbonate or Trivex lenses



2266 20 71 mm 7 g

Tool Kit for Rimless Frames

- Practical tool kit for rimless frames
- Consisting of No. 2268 00 and 2268 01 fitting tool for 1.2 mm and 1.4 mm thread and No. 2266 20 drill hole chamfer tool

2268 50



Drilled Hole Reamer

- Suitable for tool holders No. 2069 00, 2068 00 and 2065 00
- Shaft size: **1.6 mm**



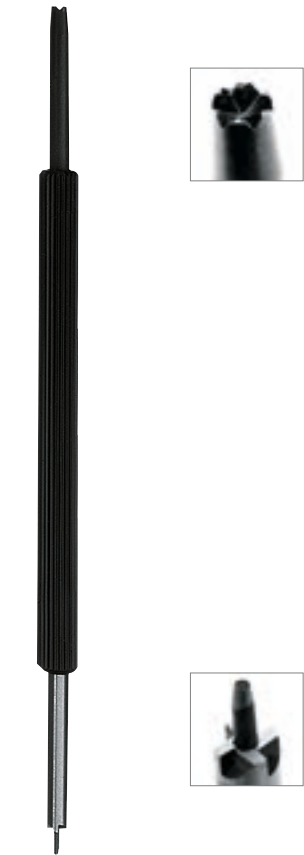
2266 10

Double Hand Miller with Hinge Miller and Screw End Miller

- To work with hinge rolls and screw ends

2216 00

122 mm 5 g



Duplex Hinge and Temple Miller

- To work with joints and temple hinge rolls
- Miller size: 3.5 mm

2220 04

110 mm 2 g



Screw End Miller

- For milling of screw ends (except steel screws)
- Shaft size: 2.5 mm

2271 25

110 mm 2 g



Silicone Pad

- This non-slip softpad protects frame and worktop against scratches
- Perfect for your workshop and service area
- Made of silicone
- Thickness of the material: 1.5 mm

2274 00 2 pieces



The tools No. 2217 03 (page C 36), 2216 00 and 2271 25 are for processing common German Silver screws and brass screws. Processing steel screws will immediately damage the tool. Improper usage voids all guarantees

Small Tools Assortment

- To use for frames
- **Contents:** 1 diamond miller, 1 diamond grinder, 1 groove miller, 1 cutting wheel (10 pieces) including mandrel, 2 grinder, 1 steel miller, 1 brass wire brush, 3 buffing wheels, 4 silicone polishers, 2 trimming wheels
- In practical box
- Shaft size: 2.34 mm except
No. 2240 37 = shaft size: 3.0 mm

2240 57  68 x 58 x 66 mm  85 g



2264 00



2240 15



2240 37



2240 42



2240 41



2240 49



2240 25



2240 26



2240 07



2240 11



2240 31



2240 32



2240 33



2240 34



2240 19



2240 29



2240 18




You will find our hand drilling machines on page A 30.

Shape	Application range	Size mm	Working speed rpm	Order No.
Grinder, wheel	To grind unhardened and alloyed steel	Ø 6 x 2.8	20,000–30,000	2240 07
Grinder, cylindric	To grind unhardened and alloyed steel	2.5 x 6.5	20,000–30,000	2240 11
Brass wire brush	To rework soldering joints	21 x 1.8	10,000	2240 15
Silicone impregnated muslin wheel	To polish plastic materials	Ø 22	5,000	2240 18
Wool buffing wheel	To polish plastic and ceramic	Ø 20	8,000	2240 19
Flannel buffing wheel	To polish plastic and metal	Ø 20	5,000	2240 29
Silicone burnisher, middle, pin	To work on metal, plastic and ceramic	4.5 x 12	7,000–10,000	2240 31
Silicone burnisher, middle, wheel	To work on metal, plastic and ceramic	11 x 2	7,000–10,000	2240 32
Silicone burnisher, fine, pin	For high gloss on metal alloy	5 x 10	7,000–10,000	2240 33
Silicone burnisher, fine, wheel	For high gloss on metal alloy	14 x 2.5	7,000–10,000	2240 34
Groove miller, facet	To rework frame grooves	17 x 2.8	2,000–4,000	2240 37
Steel miller, bud shape	To work on metal, plastic and wood	Ø 6	8,000–12,000	2240 41
Cutting wheel (10 pieces) inclusive mandrel	To cut metal and plastic	22 x 0.8	30,000	2240 42
Diamond grinder, conical	For fine grinding and planing	Ø 1.6	30,000	2240 49
Diamond miller	To groove rims of lenses	5 x 0.6	15,000–18,000	2264 00
Trimming wheel, coarse	For finishing metal, plastic and wood	Ø 25	10,000	2240 25
Trimming wheel, fine	For finishing metal, plastic and wood	Ø 25	10,000	2240 26



Spiral Drill, HSS Special

- For drilling out steel screws, for drilling in Titanium as well as lens material such as CR 39 and transition lenses
- Designed for working on hard materials
- Extremely durable
- Working speed: **1,400 to 10,000 rpm**
- Field of application: **Plastic materials, polycarbonate, steel, Titanium and precious metal**
- Shaft size: **2.34 mm**
- These drills are also available as assortment **No. 2038 50** (please see below)

2038 ..  2 pieces



Order No.	Size
2038 05	0.5 mm
2038 06	0.6 mm
2038 07	0.7 mm
2038 08	0.8 mm
2038 09	0.9 mm
2038 10	1.0 mm
2038 11	1.1 mm
2038 12	1.2 mm
2038 13	1.3 mm
2038 14	1.4 mm
2038 15	1.5 mm
2038 16	1.6 mm



HSS Spiral Drill Set

- 12 high quality spiral drills No. 2038 ..
- **Contents:** 2 twist drills, each of sizes: 0.8, 1.0, 1.1, 1.2, 1.3 and 1.4 mm
- In a practical lid box set


2038 50

 124 x 21 x 113 mm  115 g



Spiral Drill, HSS

- With cylinder shaft, right cut
- Working speed: **500 to 3,000 rpm**
- Field of application: **Plastic materials and precious metals**

2032 ..  3 pieces



Order No.	Shaft size	Size
2032 05	0.5 mm	0.5 mm
2032 06	0.6 mm	0.6 mm
2032 07	0.7 mm	0.7 mm
2032 08	0.8 mm	0.8 mm
2032 09	0.9 mm	0.9 mm
2032 10	1.0 mm	1.0 mm
2032 11	1.1 mm	1.1 mm
2032 12	1.2 mm	1.2 mm
2032 13	1.3 mm	1.3 mm
2032 14	1.4 mm	1.4 mm
2032 15	1.5 mm	1.5 mm
2032 16	1.6 mm	1.6 mm
2032 17	1.7 mm	1.7 mm
2032 18	1.8 mm	1.8 mm
2032 20	2.0 mm	2.0 mm



HSS Spiral Drill Set, 30 pieces

- **Contents:** 3 spiral drills, each of sizes: 0.5; 0.6; 0.7; 0.8; 0.9; 1.0; 1.1; 1.2; 1.3 and 1.4 mm
- In a practical lid box set

2032 50

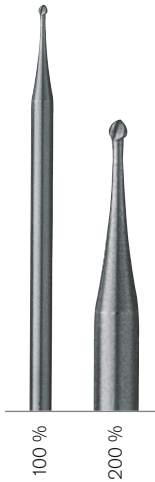
 210 x 18 x 113 mm  140 g

Hard Metal Drill

- For drilling out steel screws stuck in hinges
- Working speed: **10,000 to 15,000 rpm**
- Field of application: **Steel screws**
- Shaft size: **2.34 mm**

2037 ..

Order No.	Size
2037 10	1.0 mm
2037 12	1.2 mm
2037 14	1.4 mm
2037 16	1.6 mm




The drills No. 2037 .. are provided with a hard metal top. We recommend using less pressure and cooling.



Drill Miller for NIDEK

- For NIDEK CNC-machines ME and AHM
- Material: **Tungsten steel**
- Shaft size: **3.16 mm**

2209 ..  10 pieces

Order No.	Size
2209 08	0.8 mm
2209 10	1.0 mm



Groove Miller

- To rework the groove of plastic and metal frames
- Shaft size: **2.35 mm**
- Diameter: **6 mm**
- Speed: **approx. 6,000 to 8,000 rpm**



2240 44

Groove Miller

- To rework the groove of plastic and metal frames
- Shaft size: **2.35 mm**
- Diameter: **8 mm**
- Speed: **approx. 6,000 to 8,000 rpm**



2240 45

Groove Miller for Plastic Frames

- To rework plastic frame grooves
- Adjustable for different rim thicknesses
- Shaft size: **3.12 mm**
- Speed: **approx. 7.000 to 8.000 rpm**
- Wheel diameter: **10 x 2 mm**




2242 00



Hard Metal Drill for Plastic Lenses

- Polished surfaces guarantees a clean cut
- Working speed: **1,000 to 5,000 rpm**
- Field of application: **Plastic materials, polycarbonate and Trivex**
- Shaft size: **3.175 mm**

2035 ..  38 mm

Order No.	Size	Order No.	Size
2035 08	0.8 mm	2035 16	1.6 mm
2035 09	0.9 mm	2035 17	1.7 mm
2035 10	1.0 mm	2035 18	1.8 mm
2035 11	1.1 mm	2035 19	1.9 mm
2035 12	1.2 mm	2035 20	2.0 mm
2035 13	1.3 mm	2035 21	2.1 mm
2035 14	1.4 mm	2035 22	2.2 mm
2035 15	1.5 mm	2035 23	2.3 mm



Hard Metal Drill Set for Plastic Lenses


- **Contents:** 10 drills (0.8; 0.9; 1.0; 1.1; 1.2; 1.3; 1.4; 1.6; 1.8 and 2.0 mm)
- Details: see drills above
- Incl. half-transparent plastic box

2035 60  86 x 10 x 53 mm  60 g



Hard Metal Miller for Plastic Lenses

- To notch and mill plastic lenses, polycarbonate and Trivex
- High quality double cut miller with **fishtail edge** for a clean cut and long life time
- Shaft size: **3.175 mm**

2212 ..  38 mm

Order No.	Drillbit length	Miller size
2212 08	8.0 mm	0.8 mm
2212 09	9.0 mm	0.9 mm
2212 10	9.0 mm	1.0 mm
2212 11	9.0 mm	1.1 mm
2212 12	9.0 mm	1.2 mm
2212 13	9.0 mm	1.3 mm
2212 14	9.0 mm	1.4 mm
2212 16	10.0 mm	1.6 mm

double cut



You will find our drilling machines starting page A 26.

Drill and Miller Set for Plastic Lenses

- **Contents:** 6 drills (0.8; 1.0; 1.2; 1.4; 1.6 and 2.0 mm) plus 4 millers (1.0; 1.2; 1.4 and 1.6 mm)
- Details: See drills 2035 .. and 2212 ..


2035 50  86 x 10 x 53 mm  60 g





Drill Miller for Plastic Lenses

- This drill-miller has a polished surface which enables a clean cut
- Ideally suitable for perfect drilling and milling of plastic lenses, including polycarbonate and Trivex
- Material: **Tungsten steel**
- Shaft size: **3.14 mm**

2210 ..  38 mm

Order No.	Drillbit length	Size
2210 08	6.0 mm	0.8 mm
2210 10	7.0 mm	1.0 mm
2210 12	7.0 mm	1.2 mm
2210 14	8.0 mm	1.4 mm
2210 16	8.0 mm	1.6 mm



Drill Miller Set for Plastic Lenses

- **Contents:** 5 drill-miller (0.8; 1.0; 1.2; 1.4 and 1.6 mm)
- Details: see drill-miller above
- Incl. half-transparent plastic box

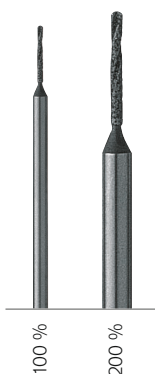
2210 50  86 x 10 x 53 mm  43 g

Diamond Spiral Drill

- For drilling glass and ceramic
- Working speed: **approx. 20,000 rpm**
- Shaft size: **2.34 mm**

2044 ..

Order No.	Drillbit length	Size
2044 10	7.0 mm	1.0 mm
2044 12	9.0 mm	1.2 mm

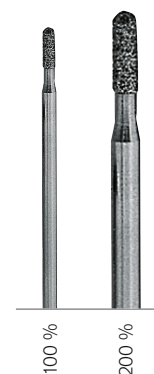


Diamond Drill

- For drilling glass and ceramic
- Working speed: **15,000 to 18,000 rpm**
- Drillbit length: **6.0 mm**
- Shaft size: **2.34 mm**

2260 ..

Order No.	Size
2260 16	1.6 mm
2260 18	1.8 mm



Diamond Wheel

- Shaft dimensions **22 x 0.60 mm**
- Working speed: **approx. 15,000 to 18,000 rpm**
- Shaft size: **2.35 mm**

2263 00



Diamond Miller

- For milling of lenses
- **For use in the screw wizard No. 2886 70**
- Shaft dimensions: **5.0 x 0.6 mm**
- Working speed: **approx. 15,000 to 18,000 rpm**
- Shaft size: **2.35 mm**

2264 00



Diamond drill No. 2260 .. plus diamond wheel No. 2263 00 and 2264 00 are high speed tools and should be operated with maximum speed. The optimum speed is between 15,000 and 18,000 rpm. Use **only water** as coolant. For minimum wear and tear and best performance apply low pressure only. Work in intervals and clean drill holes frequently. The **lower** the **rpm** of the diamond wheel/drill, the higher the wear and tear. The **faster** the **rpm** of the diamond wheel/drill, the better the working results.

Duplex Hinge and Temple Miller

- For working with joints and temples hinge rolls on Duplex temples
- Miller size: **3.0 mm**
- Shaft size: **3.0 mm**

2217 03 35 mm



Core Miller

- For premilling of hidden hinge bowls
- Miller size: **5.0 mm**
- Shaft size: **3.0 mm**

2237 50 23 mm



Screw End Miller

- Suitable for **steel**, brass and German silver screws
- Outer diameter: **1.8 mm**
- Inner diameter: **1.4 mm**
- Shaft size: **2.34 mm**

2215 18 37 mm



Hinge Bowl Miller

- To mill out the hole for hinge
- 4 cuts
- Shaft size: **3.0 mm**

2236 .. 35 mm



Order No.	Miller size
2236 30	3,0 mm
2236 35	3,5 mm
2236 40	4,0 mm
2236 45	4,5 mm
2236 50	5,0 mm

Double Cone Miller

- To mill a notch for rhinestones No. 0900 50 and 0900 51
- For deburring drilling holes in plastic lenses
- Can also be used for polycarbonate and Trivex
- Shaft size: **2.34 mm**

2265 .. 44,5 mm



Order No.	Miller size
2265 19	1.9 mm
2265 23	2.3 mm
2265 27	2.7 mm
2265 40	4.0 mm



Please take note of our rhinestone assortment on page F 47.

Hard Metal Miller

- To work on metal and plastic
- Shaft size: **3.0 mm**
- Diameter: **6 x 48 mm**
- Speed: **approx 4,000 to 6,000 rpm**

2243 00



Long Hole Miller

- For milling long holes in plastic lenses
- Can also be used for polycarbonate and Trivex
- Shaft size: **2.35 mm**

2211 ..

44,5 mm 2 pieces



Order No.	Drillbit length	Miller size
2211 08	3.5 mm	0.8 mm
2211 10	4.0 mm	1.0 mm
2211 12	4.2 mm	1.2 mm
2211 14	4.5 mm	1.4 mm
2211 21	5.1 mm	2.1 mm



Tool Holder

- With plastic handle and revolving plastic knob, especially for taps
- Clamping: **1.5 to 2.0 mm**



2062 00 90 mm 10 g

Reamer Holder

- Brass, nickel-plated
- Clamping: **1.0 to 2.0 mm**



2065 00 80 x 6 mm 15 g

Tool Holder

- With 2 exchangeable, hardened steel clamps, with square head
- Clamping: **0.7 to 1.0 and 1.4 to 2.4 mm**



2068 00 90 mm 25 g

Quick-release File Handle

- Quick-release handle for needle files, diamond files and smaller precision files
- File shaft is reliably clamped by twisting the two halves of the handle
- Clamping: **3.0 to 3.75 mm**



2066 00 90 mm 26 g

Precision Tool Holder

- 2 exchangeable steel clamps
- Black plastic handle with revolving knob
- **Second clamp accommodated in handle**
- Additional tools can be stored inside the handle
- Clamping: **0 to 1.5 and 1.5 to 2.5 mm**



2069 00 100 mm 37 g

Precision Tool Holder

- With an extra large collet width
- For tools with a maximum shaft diameter of 3.2 mm
- Additional tools can be stored inside the handle
- Clamping: **2.5 to 3.2 mm**



2070 00 100 mm 34 g

Swiss-made and exclusive to B & S.

At a quick glance the special quality of the 2 in 1 equalling file with its two different strokes cannot immediately be seen. A comparable quality is nowhere to be found.

Precision File
Flat, Small, including Handle

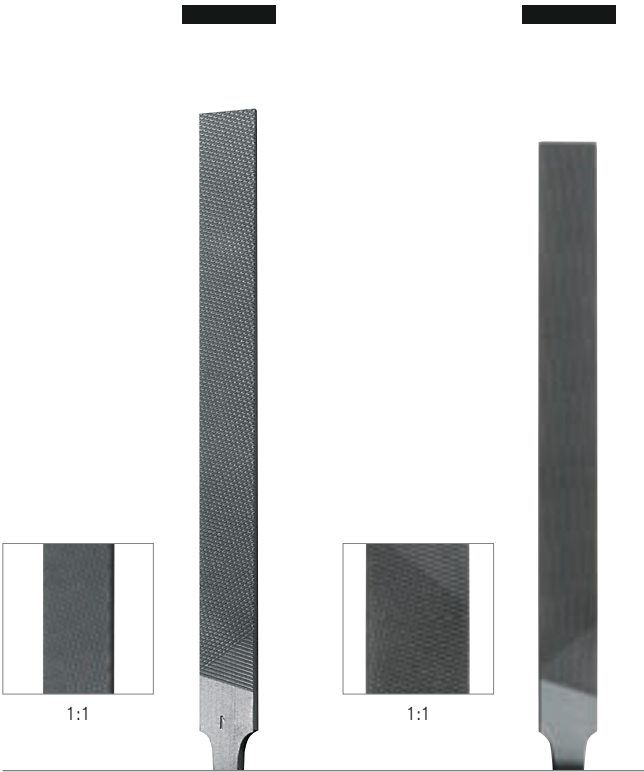
- B & S special design
- With 2 different strokes: Cut 1 = rough and cut 3 = semi fine
- One third of one narrow side with stroke
- Delivered with plastic handle
- Length of cut: 100 mm

1868 00

188 mm 2.8 mm 32 g



For cleaning we recommend our cleaning brush for files No. 3516 00 on page E 33.



Precision File
Flat, Small

- B & S special design
- With 2 different strokes: Cut 1 = rough and cut 3 = semi fine
- One third of one narrow side with stroke
- Length of cut: 100 mm
- Suitable handles: No. 1735 80 and 1732 90

1867 00

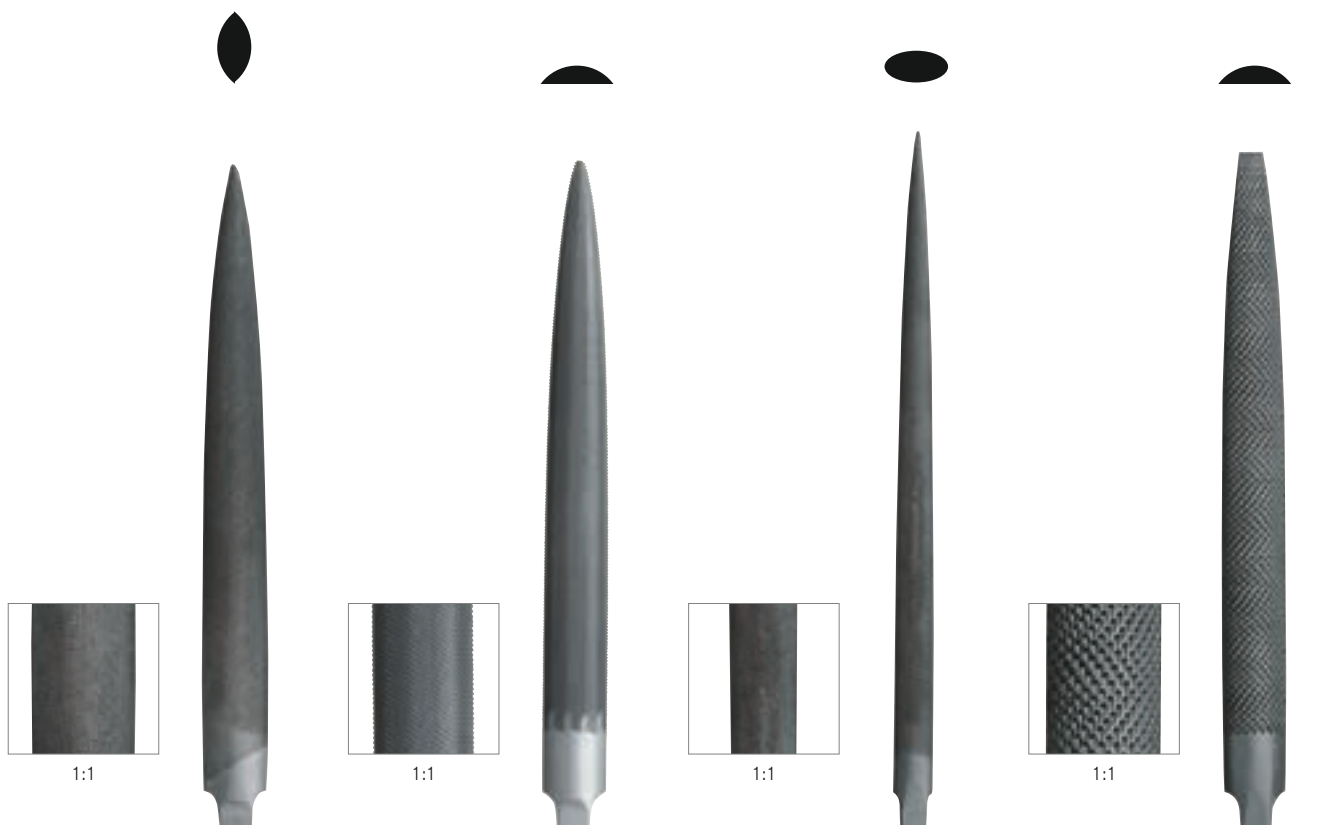
143 mm 2.8 mm 22 g

Precision File
Flat, Large

- B & S special design
- With 2 different strokes: Cut 1 = rough and cut 3 = semi fine
- Narrow side without stroke
- Length of cut: 120 mm
- Suitable handles: No. 1732 10 and 1735 10

1865 00

170 mm 3.2 mm 40 g



Precision File Lenticular

- Flat oval type with shaft
- Tapered pointed tip
- Cut: 2
- Length of cut: 125 mm
- Suitable handles: No. 1732 10 and 1735 10

1870 12

175 mm 38 g

Precision File Half-round

- With shaft and pointed tip
- Length of cut: 125 mm
- Suitable handles: No. 1732 10 and 1735 10

1878 01 Cut: 1

1878 02 Cut: 2

175 mm 38 g

Precision File Oval

- Evenly vaulted
- With rounded edges
- For plastic material
- Cut: 3
- Length of cut: 150 mm
- Suitable handles: No. 1732 10 and 1735 10

1882 13

205 mm 33 g

Raspel Half-round

- For working plastics
- With specially fine rasp cut No. 5
- Length of cut: 150 mm
- Suitable handles: No. 1732 10 and 1735 10

1899 00

200 mm 55 g

File Handles

- Lacquered wood
- Standard type, with collar
- Bore: 4 mm



1732 90 90 mm 30 g

1732 10 100 mm 35 g

File Handle, Plastic Red

- Reduces fatigue and avoids blisters
- Shaped to fit the hand, special design
- For file lengths from 100 up to 150 mm
- Material: High impact material with non-slip surface
- Bore: 4–7 mm, no opening up required



1735 10 100 mm 34 g

File Handle, Plastic Blue

- Ergonomic file handle with soft touch surface
- Material: Two-component plastic
- Bore: 3.7 mm



1735 80 85 mm 24 g

Needle File Assortment

- For work on plastic
- In plastic pouch, different shapes (flat, semicircular, trident, square type, round, flat with tapered tip)
- Cut: 2
- Length of cut: 70 mm

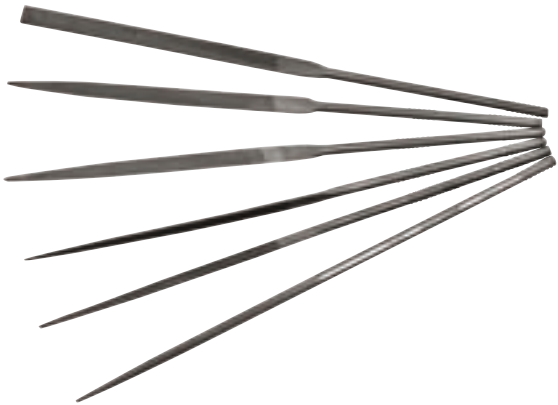
1849 60 | 140 mm 6 pieces



Needle File Assortment

- Notably small and handy version with **extra fine cut** for work with plastic
- In plastic pouch, different shapes (flat, semicircular, trident, square type, round, flat with tapered tip)
- Cut: 4
- Length of cut: 50 mm

1848 50 | 100 mm 6 pieces



Needle File Assortment

- For work on plastic
- In plastic pouch, different shapes (flat, semicircular, trident, square type, round, flat with tapered tip, lenticular, knife-shaped)
- Assorted in cuts 1 and 3

1849 00 | 140 mm 12 pieces



Diamond Needle File Assortment

- For work on **steel, lenses, ceramic**
- In plastic pouch, different shapes (flat, trident, square type, round, flat with tapered tip, oval, biretta, lenticular, semicircular, knife-shaped)
- Length of cut: 50 mm



1801 50 | 140 mm 10 pieces





Needle Files

- Cut: 2

1849 ..  140 mm  2 pieces

1849 61 round

1849 62 flat


1849 64 trident

1849 67 knife shaped

Screw Head Slot File

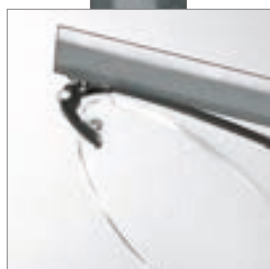
- Without shaft
- Cut: 5
- Length of cut: 75 mm
- Thickness at edge: 0.30 mm



 75 x 9 mm

 0.55 mm


 3 g



Lens Drill Hole and Hinge Files

- Round, cylindrical
- Cut: 3
- Length of cut: 100 mm




 120 mm

 1 g



Ribbed File


- Lenticular
- Cut: 2

 180 mm

 28 g



1860 15

1853 10  1.1 mm

1853 13  1.3 mm

1853 16  1.6 mm

1852 02

Pretty flexible.

No DIY store has this bench vice in its range. A bench vice with precise ball joint construction. Work pieces can be rotated and tilted exactly as required. The exchangeable jaws offer a secure and gentle grip. This German quality product is manufactured in small production runs –defining a typical B&S product.




Ball Joint Vice

- With lateral turning range and rotation 360°
- Perfect for all demands and requirements at work
- Jaw type: **Smooth and exchangeable**
- Clamping depth: **38 mm**
- Jaw width: **50 mm**
- Clamping range: **48 mm**
- Maximum thickness of working table: **80 mm**

2106 00  1.5 kg

Plastic Jaws

- Suitable for No. 2106 00

2117 01  1 pair

Vice

- Rotatable vice with steel jaws and trapezoidal threaded spindle
- Made of grey cast iron with table clamping clamp
- Jaw width: **50 mm**
- Clamping range: **50 mm**
- Clamping depth: **32 mm**
- Maximum thickness of working table: **50 mm**

2107 00  2 kg



Ball Joint Vice

- Adjustable in all kind of work positions
- With rubber jaws
- Jaw width: **73 mm**
- Clamping range: **50 mm**
- Maximum thickness of working table: **55 mm**

2105 30  825 g



Felt Jaws

- For vice 2106 00, magnetic fixation

2121 10

 60 x 8 x 10 mm  16 g  1 pair



Aluminium Jaws

- For easy attachment, suitable for all vices

2121 15

 65 x 10 x 14 mm  33 g  2 pairs



Filing Vice

- For filing of temple stops with its clamp

1724 00  170 g



Hack Saw

- Universal use (for metal and plastic)
- The handle is used to keep the blade under tension
- Perfect to use for special fretworks
- C shaped frame, including standard blade
- Bow depth: 65 mm

2152 00 | 295 mm



Standard Blades for Hack Saw

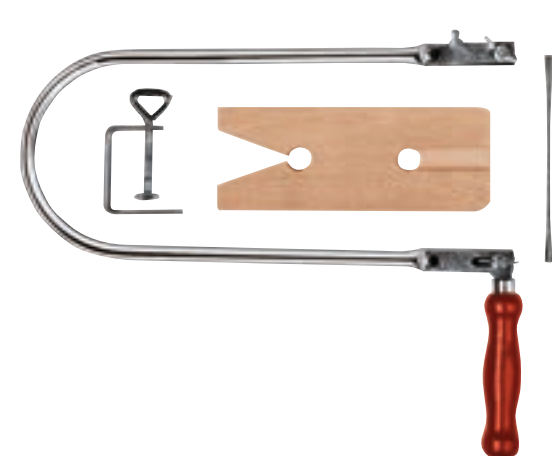
2152 10 | 150 mm 10 pieces



Fret Saw Working Set

- For wood and plastic
- **Contents:** 1 fret saw, 1 fret saw timber with clamp, 1 set saw blades

2151 00 390 g



Fret Saw Timber (without illustration)

- With two clamps and metal sleeve

2160 00 220 x 14 x 90 mm 16 g

Spare Screw Set (without illustration)

- Complete with washer and wing nut
- 1 set contains: 2 fly nuts, 2 washers and 2 screws

2158 01 9 g 2 pieces

Spare Clamps (without illustration)

2160 01 2 pieces

Fret Saw Blades

- For plastic, acrylic glass and non-ferrous metal
- One sided cut
- Length: 130 mm

2198 .. each 12 pieces

2198 01 0.8 mm **2198 03** 1.5 mm

2198 02 1.2 mm



Fret Saw Blades

- For plastic
- All-over cut
- Length: 130 mm

2199 .. each 12 pieces

2199 03 0.8 mm **2199 05** 1.0 mm

2199 04 0.9 mm **2199 07** 1.2 mm



Fret Saw Blades

- For metal
- One sided cut
- Length: 130 mm

2196 .. each 12 pieces

2196 01 0.5 mm **2196 03** 1.0 mm

2196 02 0.7 mm







OPTOMETRY

Tools for the right diagnosis



- D 2 Trial Frames
- D 5 Trial Lens Sets
- D 8 Cross Cylinders and Test Strips
- D 10 Occluder & Colour Charts
- D 11 Tips & Tricks: Prism Foils
- D 12 Ophthalmic Lenses
- D 13 Stick-on Reading Segment
- D 14 Occluders
- D 15 Occlusion Foils
- D 16 KAANS Patch®
- D 17 Science safety goggle set
- D 18 Contact lens equipment
- D 22 Lens Clock and Thickness Gauge
- D 24 Caliper Gauges
- D 26 Tips & Tricks: The Cube
- D 28 Rulers

“Trial Frame Perfection” Trial Frame from Oculus; “Made in Germany” of course!



Hypo-allergenic plastic, easy to use and comfortable to wear; top workmanship gives this product its renowned quality.


Trial Frame from Oculus

- For trial lenses with diameter of 38 mm
- PD-Range 46 to 80 mm
- Adjustable bridge height and inclination
- Dermatologically safe material (**hypo-allergenic**)

UB6

- Use up to 12 trial lenses in total
- 2.5° steps for a better readability
- Flexible double temple tips for a perfect fit

4428 00  60.2 g

 For **spare parts** contact your local distributor.



Polarised Clip-on

For lateral mounting on the trial frame No. 4428 00.

4428 50 Polarisation = Circular

4428 51 Polarisation = V-position (45°/135°)

4428 5.

 1 pair (left and right)



Polarised Clip-on for Testing

Polarisation = V-position (45°/135°)


4458 30  17 g

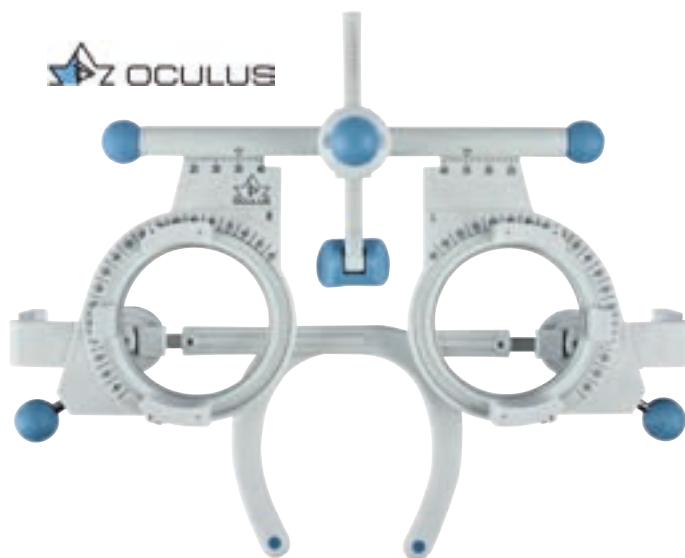


UB4

- Use up to 10 trial lenses in total
- Flexible and anatomic adjustable temple ends
- Trendy up to date design

4423 00  70 g

 For **spare parts** contact your local distributor.



Polarised Clip-on

For lateral mounting on the trial frame No. 4423 00.
Polarisation = V-position (45°/135°)

4423 51


 1 pair (left and right)



Polarised Clip-on

For lateral mounting on the trial frame No. 4423 00.
Polarisation = Circular

4423 50

 1 pair (left and right)



Polarised Clip-on

- With plastic rims
- Diameter rim: 38 mm
- Diameter lens: 21 mm
- Polarisation: Circular
- Suitable for 3D sight testing

4458 20


 1 pair (left and right)



Universal Trial Frame

- Use up to 10 trial lenses (Ø 38 mm)
- PD-range 50 to 80 mm
- Measuring device for vertex distance
- Temple inclination and length adjustable
- Bridge height and inclination adjustable at the same time
- Nose pads and temple ends have extra soft quality
- Incl. 2 nose pads, size S and M
- Colour: Black
- Delivered in B & S design box

4427 00  61 g


 For **spare parts** contact your local distributor.



Universal Trial Frame

- With improved nose bridge
- Use up to 8 trial lenses (Ø 38 mm)
- PD-range 48 to 80 mm
- Measuring device for vertex distance
- Temple inclination and length adjustable
- Adjustable bridge height and inclination
- Nose pads and temple ends have extra soft quality
- Incl. 2 extra nose pads
- Colour: Black
- Delivered in B & S design box

4426 00  80 g


 For **spare parts** contact your local distributor.



Universal Trial Frame

- Lightweight
- Holds 8 trial lenses (Ø 38 mm)
- PD-range 50 to 80 mm
- Temple inclination, length and bridge height are individually adjustable
- Colour: Charcoal grey
- Plastic storage box

4429 00  52 g

 For **spare parts** contact your local distributor.



Trial Lens Set with 268 Trial Lenses with Metal Rims

- In high quality metal case
- Suitable for standard trial frames with 38 mm lenses
- All lenses are individually available

4369 05  54 x 10 x 35 cm  6.6 kg

 For **spare parts** contact your local distributor.



Content of the Trial Lens Set

40 pairs each of plus and minus lenses:

± 0.12 dpt.
 ± 0.25 dpt. up to ± 6.00 dpt. in 0.25 increments
 ± 6.50 dpt. up to ± 10.00 dpt. in 0.50 increments
 ± 11.00 dpt. up to ± 14.00 dpt. in 1.00 increments
 ± 16.00 dpt. up to ± 20.00 dpt. in 2.00 increments

21 pairs each of plus and minus cylinders:

± 0.12 dpt.
 ± 0.25 dpt. up to ± 4.00 dpt. in 0.25 increments
 ± 4.50 dpt. up to ± 6.00 dpt. in 0.50 increments

14 prism lenses:

0.50 pdpt. (2 pcs) in 0.50 increments
 1.00 pdpt. up to 4.00 pdpt. (2 pcs) in 1.00 increments
 5.00 pdpt. up to 6.00 pdpt. (1 pc) in 1.00 increments
 8.00 pdpt. up to 10.00 pdpt. (1 pc) in 2.00 increments


10 accessory lenses:

1x occluder/black
 1x pinhole small
 1x pinhole large
 1x aperture slot
 1x ribbed lens
 1x crossline
 1x plano lens
 1x red
 1x green
 1x cross cylinder 0.25 dpt.

Trial Lens Set with 260 Trial Lenses with Metal Rims and AR-Coating

- In high quality metal case
- Suitable for standard trial frames with 38 mm lenses
- All lenses are individually available

4369 10  54 x 10 x 35 cm  6.6 kg

 For **spare parts** contact your local distributor.



Content of the Trial Lens Set

39 pairs each of plus and minus lenses:

± 0.25 dpt. up to ± 6.00 dpt. in 0.25 increments
 ± 6.50 dpt. up to ± 10.00 dpt. in 0.50 increments
 ± 11.00 dpt. up to ± 14.00 dpt. in 1.00 increments
 ± 16.00 dpt. up to ± 20.00 dpt. in 2.00 increments

20 pairs each of plus and minus cylinders:

± 0.25 dpt. up to ± 4.00 dpt. in 0.25 increments
 ± 4.50 dpt. up to ± 6.00 dpt. in 0.50 increments

14 prism lenses:

0.50 pdpt. (2 pcs) in 0.50 increments
 1.00 pdpt. up to 4.00 pdpt. (2 pcs) in 1.00 increments
 5.00 pdpt. up to 6.00 pdpt. (1 pc) in 1.00 increments
 8.00 pdpt. up to 10.00 pdpt. (1 pc) in 2.00 increments


10 accessory lenses:

1x occluder/black
 1x pinhole small
 1x pinhole large
 1x aperture slot
 1x ribbed lens
 1x crossline
 1x plano lens
 1x red
 1x green
 1x cross cylinder 0.25 dpt.

Trial Lens Set with 260 Trial Lenses with Plastic Rims

- In high quality metal case
- Suitable for standard trial frames with 38 mm lenses
- All lenses are individually available

4369 20  54 x 10 x 35 cm  5.5 kg

 For **spare parts** contact your local distributor.



Content of the Trial Lens Set

39 pairs each of plus and minus lenses:

± 0.25 dpt. up to ± 6.00 dpt. in 0.25 increments
 ± 6.50 dpt. up to ± 10.00 dpt. in 0.50 increments
 ± 11.00 dpt. up to ± 14.00 dpt. in 1.00 increments
 ± 16.00 dpt. up to ± 20.00 dpt. in 2.00 increments

20 pairs each of plus and minus cylinders:

± 0.25 dpt. up to ± 4.00 dpt. in 0.25 increments
 ± 4.50 dpt. up to ± 6.00 dpt. in 0.50 increments

14 prism lenses:



0.50 pdpt. (2 pcs)
 1.00 pdpt. up to 4.00 pdpt. (2 pcs) in 1.00 increments
 5.00 pdpt. up to 6.00 pdpt. (1 pc) in 1.00 increments
 8.00 pdpt. up to 10.00 pdpt. (1 pc) in 2.00 increments


10 accessory lenses:

1x occluder/black
 1x pinhole small
 1x pinhole large
 1x aperture slot
 1x ribbed lens
 1x crossline
 1x plano lens
 1x red
 1x green
 1x cross cylinder 0.25 dpt.

Trial Lens Set with 159 Trial Lenses with Metal Rims

- In high quality metal case
- Suitable for standard trial frames with 38 mm lenses
- All lenses are individually available

4369 40  52.5 x 6.8 x 30 cm  5 kg

 For **spare parts** contact your local distributor.



Content of the Trial Lens Set

25 pairs each of plus and minus lenses:

± 0.25 dpt. up to ± 4.00 dpt. in 0.25 increments
 ± 4.50 dpt. up to ± 6.00 dpt. in 0.50 increments
 ± 7.00 dpt. up to ± 10.00 dpt. in 1.00 increments
 ± 12.00 dpt.

11 pairs each of plus and minus cylinders:

± 0.25 dpt. up to ± 2.00 dpt. in 0.25 increments
 ± 2.50 dpt. up to ± 3.00 dpt. in 0.50 increments
 ± 4.00 dpt.

8 prism lenses:



0.50 pdpt. up to 1.00 pdpt. (2 pcs) in 0.50 increments
 2.00 pdpt. up to 5.00 pdpt. (1 pc) in 1.00 increments

7 accessory lenses:

1x occluder/black
 1x pinhole
 1x aperture slot
 1x crossline
 1x red
 1x green
 1x cross cylinder 0.25 dpt.

Upgrade Trial Lens Set, with 8 pcs of 0.12 dpt. Trial Lenses with Metal Rims



- 1 pair of plus and minus lenses
- 1 pair of plus and minus cylinder
- Suitable for standard trial frames with 38 mm lenses
- All lenses are individually available

4369 02  22 x 2.5 x 12.5 cm  142 g



Upgrade Trial Lens Set, with 8 pcs of 0.12 dpt. Trial Lenses with Plastic Rims

- 1 pair of plus and minus lenses
- 1 pair of plus and minus cylinder
- Suitable for standard trial frames with 38 mm lenses
- All lenses are individually available

4369 22  22 x 2.5 x 12.5 cm  114 g



Prism Trial Lens Set with Metal Rims

- Trial lens set upgrade, with 36 pcs prism lenses with power from 0.50 pdpt. up to 10.00 prism pdpt.
0.50 pdpt. (4 pcs)
1.00 pdpt. up to 6.00 pdpt. (4 pcs) in 1.00 increments
8.00 pdpt. up to 10.00 pdpt. (4 pcs) in 2.00 increments
- With 4 different base directions (45°/135°/225°/315°)
- Suitable for standard trial frames with 38 mm lenses

4369 13  24.5 x 9.5 x 17.5 cm  1.4 kg



Prism Trial Lens Set with Plastic Rims

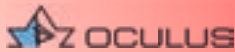
- Trial lens set upgrade, with 36 pcs prism lenses with power from 0.50 pdpt. up to 10.00 prism pdpt.
0.50 pdpt. (4 pcs)
1.00 pdpt. up to 6.00 pdpt. (4 pcs) in 1.00 increments
8.00 pdpt. up to 10.00 pdpt. (4 pcs) in 2.00 increments
- With 4 different base directions (45°/135°/225°/315°)
- Suitable for standard trial frames with 38 mm lenses

4369 23  24.5 x 9.5 x 17.5 cm  1.2 kg



Everything at a glance.

Proven quality from Germany, very handy and light.



Cross Cylinder

With AR coating

Ø 25 mm 12 g

4367 . .

4367 20 ± 0.25 dpt.

4367 40 ± 0.50 dpt.



Cross Cylinder

Ø 35 mm 25 g

437. . .

4370 25 ± 0.25 dpt.

4370 50 ± 0.50 dpt.

4370 75 ± 0.75 dpt.

4371 00 ± 1.00 dpt.



Power Testing Bar

With AR coating

Effect in diopters: Sph. ± 0.25 up to ± 0.50 dpt.

4366 05 Ø 19 mm each 40 g



Power Testing Bar

Effect in diopters: Sph. ± 0.25 up to ± 0.50 dpt.

Delivered in B&S Design Box

4373 00 Ø 21 mm each 40 g



Power Testing Bar Assortment

4 wooden bars in a matching wooden case.


Effect in diopters: Sph. ± 0.5 up to ± 3.5 dpt. and ± 4.0 up to ± 12.0 dpt.

4373 50 Ø 21 mm each 50 g/bar



Confirmation Test

Effect in diopters: Sph. ± 0.25 dpt.


4372 00 \varnothing 35 mm each  25 g



Binocular Confirmation Test Metal

Effect in diopters: Sph. ± 0.25 dpt.


Adjustment of PD: 46 to 82 mm

4374 00 \varnothing 35 mm each  72 g



Binocular Confirmation Test Plastic

Adjustment of PD: 44 to 81 mm

4377 . . \varnothing 35 mm each  37 g

4377 25 Effect in diopters: Sph. ± 0.25 dpt.

4377 50 Effect in diopters: Sph. ± 0.50 dpt.



Occluder

For cover test.
Total length: 24.5 cm

4375 00 Ø 6 cm 21 g



Multiple Pinhole Occluder

To measure vertical and lateral associated heterophoria,
for both near and distance vision.
Total length: 24.5 cm

4375 01 Ø 6 cm 21 g



LANG Fixation Cube

To be used for the cover test and motility test.

4378 00



Ishihara Colour Chart

Book type, 14 charts.
Size: DIN A5



4476 10 250 g



Matsubara Colour Chart for Children

Book type, 10 charts, incl. 6 matching plates.
Size: DIN A5



4476 20 275 g





TIPS & TRICKS

ATTACH PRISM FOILS PROPERLY

Get the Right Base Position!

Prism Foils

No. 0639 .. or 0640 ..

Multi-purpose Scissors

No. 1607 10

Foil Pen

No. 2628 01



approx. 2–3 minutes

This is how it works



1 UNPACKING



2 RECOGNIZING THE BASE



3 ATTACHING



4 MARKING



5 CUT OUT



6 MOISTEN



7 ATTACHING



8 SMOOTHING



TIP: Clean the foil only with water. Don't use any aggressive cleaning agents as the foil would lose its clearness!



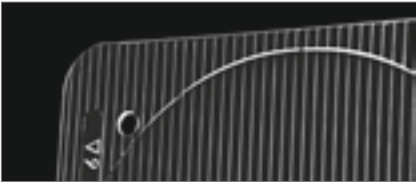
ATTENTION: Storing period for lens foils max. 1 year. Please mark foils only with tallow or wax pencils!



3M Ophthalmic Lenses

- Prismatic additions for squint treatment
- Highly transparent material with perfect optical quality
- High flexibility, good adhesion and image quality
- Useful diameter: 66 mm

0639 . .

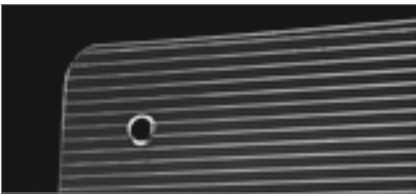


Order No.	cm/m	Order No.	cm/m	Order No.	cm/m
0639 01	1	0639 07	7	0639 20	20
0639 02	2	0639 08	8	0639 25	25
0639 03	3	0639 09	9	0639 30	30
0639 04	4	0639 10	10	0639 35	35
0639 05	5	0639 12	12	0639 40	40
0639 06	6	0639 15	15		

Ophthalmic Lenses

- Prismatic additions for squint treatment
- Useful diameter: 58 mm

0640 . .

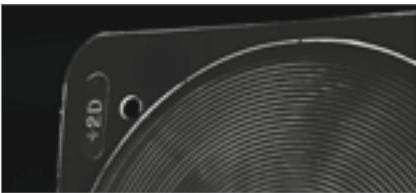


Order No.	cm/m	Order No.	cm/m	Order No.	cm/m
0640 01	1	0640 07	7	0640 17	17.5
0640 02	2	0640 08	8	0640 20	20
0640 03	3	0640 09	9	0640 25	25
0640 04	4	0640 10	10	0640 30	30
0640 05	5	0640 12	12	0640 35	35
0640 06	6	0640 15	15		

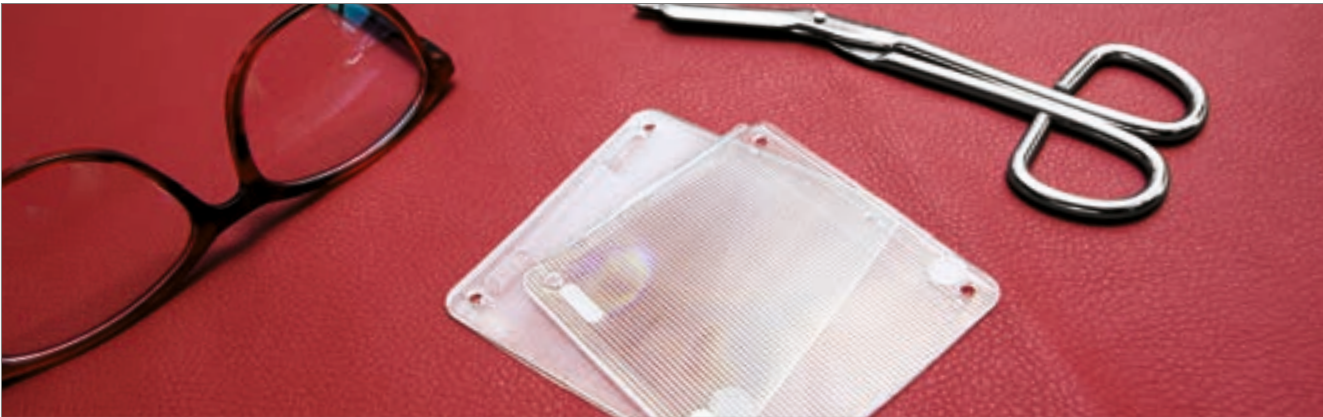
3M Lens Foils

- Spherical additions
- Highly transparent material with perfect optical quality
- Useful diameter: 66 mm
- Center thickness: 0.8 mm

0646 . .



Order No.	Effect dpt.	Order No.	Effect dpt.
0646 10	+ 1.0	0646 25	+ 2.5
0646 15	+ 1.5	0646 30	+ 3.0
0646 20	+ 2.0	0646 35	+ 3.5



Stick-on Reading Segment



Multiple application ...





... in protective goggles



... in sunglasses

Hydrotac

- Flexible plastic
- Reusable self adhesive
- Easy to handle

 31 x 17 mm  1 pair

0638 . .

0638 12 + 1.25

0638 15 + 1.50

0638 17 + 1.75

0638 20 + 2.00

0638 25 + 2.50

0638 30 + 3.00



Hydrotac Assortment

- 12 packets of reading segments
- 2 packets per diopter



 12 pairs

0638 99



3M

- Flexible plastic
- Reusable self adhesive
- Easy to handle

 28 x 16 mm  1 pair

0637 . .

0637 10 + 1.00

0637 15 + 1.50

0637 20 + 2.00

0637 25 + 2.50

0637 30 + 3.00

0637 40 + 4.00



Occluder

- Skin friendly, very elastic plastic
- Easy to adjust, with effective ventilation
- Strong small sucker

4439 80




 75 x 50 mm  of the sucker 15 mm



Occluder

- As No. 4439 80, but small type

4439 90




 35 x 35 mm  of the sucker 15 mm  3 pieces

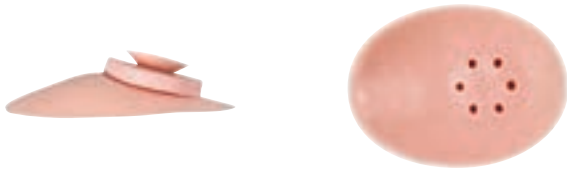


Occluder

- As No. 4439 80, but small and flat type

4439 95

 55 x 45 mm  of the sucker 15 mm  3 pieces



Side Protection Universal

- Silicone, to be cut to fit metal and plastic frames
- Mounted into the groove of the frame

 1 pair

1316 00 **Black**

1316 10 **Semi-Transparent**




Occlusion Foils in Different Types

Based on Prof. Bangerter and Prof. Lang, in graded transparency for reducing the vision.
For full, alternating or gradual occlusion note the instructions from the doctor.

Foils in Sheet Form


10 individual foils can be cut from one foil in order to equip 10 children's spectacles. The foils can be cut using scissors. A larger surface can be covered for special applications.

0658 . .  215 x 105 mm

Order No.	Foil	Visus reduction	Order No.	Foil	Visus reduction
0658 20	With motifs	Full	0658 01	Colourless	0.1
0658 00	Beige	Full	0658 02	Colourless	0.2
0658 10	Grey	Full	0658 03	Colourless	0.3
0658 30	Matt Black	Full	0658 04	Colourless	0.4
0658 09	Translucent	Light perception	0658 06	Colourless	0.6
0658 07	Colourless	< 0.1	0658 08	Colourless	0.8



Single Foils

0659 . .  60 x 60 mm

Order No.	Visus reduction	Order No.	Visus reduction
0659 00	Full	0659 03	0.3
0659 09	Light perception	0659 04	0.4
0659 07	< 0.1	0659 06	0.6
0659 01	0.1	0659 08	0.8
0659 02	0.2	0659 10	1.0




Optometry



Single Foils with Funny Motives for Squint Treatment of Children

Visus reduction: Full

0659 . .  215 x 105 mm


Order No.	Motifs	Order No.	Motifs
0659 20	Ladybird	0659 24	Clown
0659 22	Globi with bicycle	0659 25	Butterfly



KAANS Patch®

Soft eye patch for glasses
fits children aged 1–6 years.

- Non adhesive, no skin irritation
- **100% organic-cotton**
- Easy mounting on all glasses
- Fits perfectly and encircles the eye softly
- Washable

 approx. 55 x 70 mm

0650 . .



- 00



- 05 Pirate



- 10 Cats and dogs



- 01 Excavator



- 06 Soccer



- 11 Stars



- 02 Car



- 07 Heart



- 12 Ladybird



- 03 Skull



- 08 Flower



- 13 Owl



- 04 Space ship



- 09 Horse



Science Safety Goggle Set

– for kids

- Recommended for firework events, school Chemistry lessons and relevant recreational activities
- The assortment contains the following colours: Blue, Red, Yellow and Fuchsia
- Material: Polycarbonate



128 mm



38 mm




12 mm



120 mm



18 g

9625 50  12 pieces (3 per colour)



Red



Blue



Fuchsia



Yellow



12 Contact Lens Cases “Funny Animals”
– including presentation display

- Presentation display, dimensions (l x w x h): 211 x 147 x 30 mm

7205 00 12 contact lens cases including presentation display

Every Funny Animal is available separately.

- 7205 01 Frog, Green
- 7205 02 Piggy, Pink
- 7205 03 Hippo, Grey
- 7205 04 Bear, Blue
- 7205 05 Fish, Purple
- 7205 06 Elephant, Yellow
- 7205 07 Monkey, Dark blue
- 7205 08 Owl, Dark purple

8 pieces per colour



Standard Contact Lens Cases

- For soft and hard contact lenses
- Assorted colours (6x Blue white, 6x Green white)

7250 00 12 pieces



- For hard lenses
- Assorted colours (3x Blue yellow, 3x Blue orange)

7252 00 6 pieces



- With Microban® technology
- Continuous protection against the growth of microbes
- Assorted colours (6x Blue white, 6x Green white)
- For soft and hard contact lenses

7256 00 12 pieces



- Hermetically sealed barrel cases with 2 baskets for soft lenses
- Assorted colours (3x Blue orange, 3x Orange blue)

7251 00 6 pieces



Contact Lens Tweezers

- Small, handy to carry
- With silicone tips, especially gentle for soft contact lenses
- Assorted colours (4 x Green, 4 x Blue, 4 x White)

7254 00  12 pieces



- Large type for an optimum handling
- With silicone tips, especially gentle for soft contact lenses
- Assorted colours (4 x Yellow, 4 x Dark blue, 4 x Dark green)

7254 10  12 pieces



Contact Lens Suction Holder

- Hypoallergenic silicone, ok to combine with all standard cleaning solutions and care products
- Including hard case, easy to carry
- For hard lenses

7255 00  12 pieces

Orange



7255 10  12 pieces


Green



Hollow, for hard and soft contact lenses

Contact Lens Catcher

- Made of silicone
- Prevents contact lenses being lost in the basin
- Dimensions (L x B): 10.7 x 13.7 cm

7257 00  3 pieces

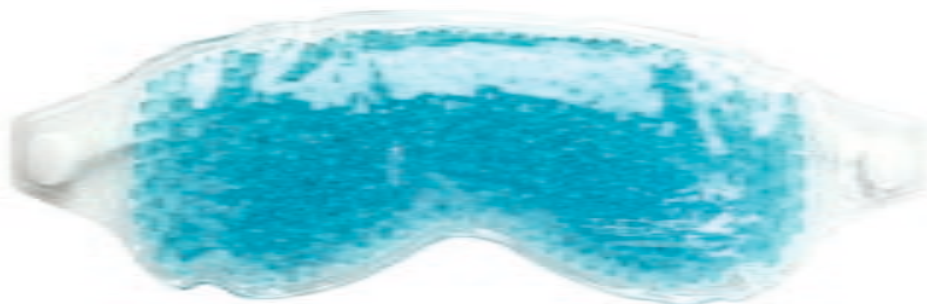


THERA°PEARL® Eye-ssential™ Mask

- Conforms to your face to deliver soothing relief from:
Dry Eyes,- Headaches/Sinus pain, Puffy Eyes & More!

THERA°PEARL®
A NEW DEGREE OF RELIEF™

7293 00





Sapphire equipped Lens Clock “Made in Germany”.

An essential working tool and another quality product, “Made in Germany”. The extremely durable precision lens clock is hand-fitted into a shockproof metal housing and always produces correct measurement results.

Lens Clock

- For all spheric and astigmatic lenses with **refractive index n 1.52 and n 1.70**
- With sapphire ball tips to prevent scratching of lenses during measuring process
- Measuring range: 0 to ± 20 dpt.
- Delivered in carton

2315 02

80 g



Lens Clock

- For all spheric and astigmatic lenses with **refractive index n 1.53**
- Measuring range: 0 to ± 20 dpt.
- Delivered in B & S Design Box

2315 10

62 g



Lens Clock

- For all spheric and astigmatic lenses with **refractive index n 1.49 and n 1.60**
- Measuring range: 0 to ± 18 dpt.
- Delivered in B & S Design Box

2315 20

62 g



Sapphire equipped, extra long Thickness Gauge “Made in Germany”.

With this product you can perfectly measure the lens thickness of even very high minus lenses.
The 0-position is adjustable.

Thickness Gauge

- Extremely long measuring arms
- Ball pointed measuring tips made of sapphire
- 0-positioning is adjustable
- Including box and adjusting key
- Arm depth: 80 mm
- Lens thickness: up to 20 mm
- Reading: 0.05 mm
- Delivered in a neoprene bag

2317 00

350 g



Thickness Gauge

- With long arms and ball pointed measuring tips
- Arm depth: 75 mm
- Lens thickness: up to 20 mm
- Reading: 0.05 mm
- Delivered in a plastic box

2314 00

390 g



Thickness Gauge

- Arm depth: 45 mm
- Lens thickness: up to 10 mm
- Reading: 0.05 mm
- Delivered in a plastic box

2318 00

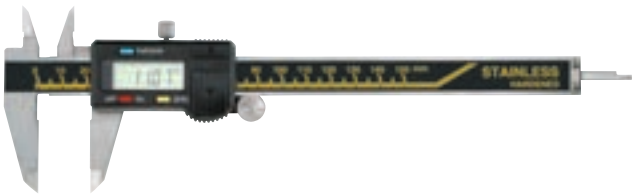
75 g



Digital Caliper Gauge

Electronic display “mm” and “inch” readings.
Reading: 0.1 mm = 0.004 inch
Battery: round cell 1.5 V
Measuring range: 150 mm
Jaw Depth: 40 mm

2335 00  315 g



Universal Caliper


Stainless steel, matt chrome.
Reading: 1/50 mm and 1/1,000 inches
Measuring range: 150 mm
Jaw Depth: 40 mm

2337 02  170 g



Pocket Caliper

Made of high quality brass, offers 6 different measuring possibilities.
Length: 100 mm
Length of measuring leg: 40 mm

2333 10  65 g





Precision work



The B & S test lens with the central overprint of the marking provides a very accurate measurement. In addition the print colour chosen to increase contrast, makes it easier to read the values. The consistent quality of the printing is guaranteed by the German manufacturer.



B & S Test Lens

With milled centre holes, reference lines to mark the centre of the pupil and segheight, easy to use.
Compatible with Rodenstock and Essilor systems.



2359 02  68 x 0.5 x 68 mm  200 pieces

2359 04  68 x 0.5 x 68 mm  50 pieces



Segheight Gauge

Transparent, scale printed in white.

2371 02  75 x 37 mm  2 pieces



A very special workplace:

To simplify the assembly and adjustment of spectacles. The magnetic surface helps to prevent screws and nuts from bouncing off. The aluminum edge gives a secure grip on the workbench and prevents slipping. The printed measurement lines makes determining the frame curvature easier and helps during the adjustment of the frame.

Magnetic Mat for Rimless Work

Work base for the workshop.

Ideal for aligning all frames, in particular when assembling rimless spectacles.

- The magnetic effect retains screws and nuts (minimises bouncing of small items when dropped)
- Measuring line system for determining the **frame curvature** on sunglasses and sports frames with extremely curved lenses
- Reference lines for aligning all frames
- Centration aid for determining the frame centre
- An aluminium edge prevents slipping of the mat and serves as support when tightening screws
- Centration aid for temple inclination
- Ruler
- Sizing template to find out the rough lens diameter
- Bold lines to check the markings

2365 21

39.4 x 28 cm

800 g






TIPS & TRICKS

THE CUBE

3 at a Stroke

The Cube
Art. No. 2372 50

 approx. 1 minute

This is how it works



OPTION 1:

1 ATTACHING



2 MARKING



3 CHECKING



OPTION 2:

4 CORRECT



1 MEASURE



OPTION 3:

1 MEASURE




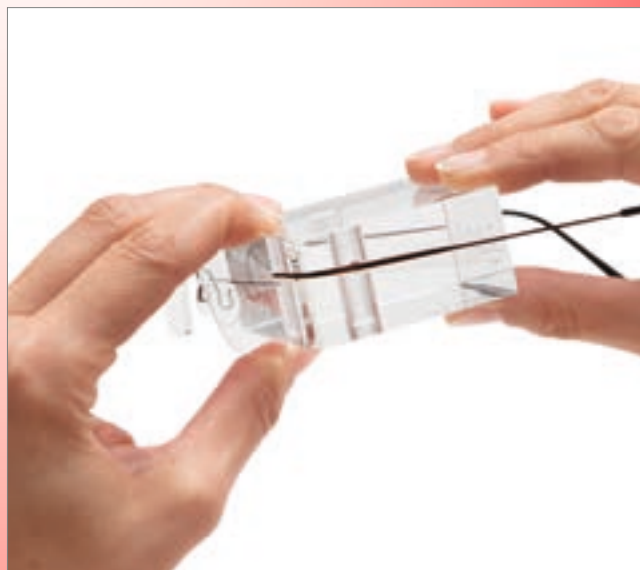
The marking tool “The Cube”

This innovative tool has been developed to combine 3 work steps in one: the simple and fast marking of spectacle lenses, the measuring of inclination and the checking of centering heights. The high-quality Staedtler pen included in the scope of delivery only has to be inserted through the tapered hole in the middle of the stylish acrylic block and off you go. Depending on which side the block is placed on, an assistant line can be drawn at four different heights in a flash and parallel. With the engraved ruler on one of the stand sides of the cube, the near part height of a bifocal lens, the progression height of a progressive lens or any other height can be measured. In addition, the Cube offers two scales for measuring inclination. It goes without saying that measurements can be taken from both the right and the left side of the temple.



The Cube


- For easy and quick marking of lenses
- For inclination measurements and inspection of the reading segment
- Including Staedtler Pen (Art. No. 2627 01)

2372 50
 55 x 55 x 30 mm


Lens Ruler Base Curve 4 and Base Curve 6

To mark a line on the reverse of lenses.
The lens ruler is essential to draw a marking line due to an adjustment close to the lens curve.




2372 00  70 x 36 mm

Fine Line Ruler

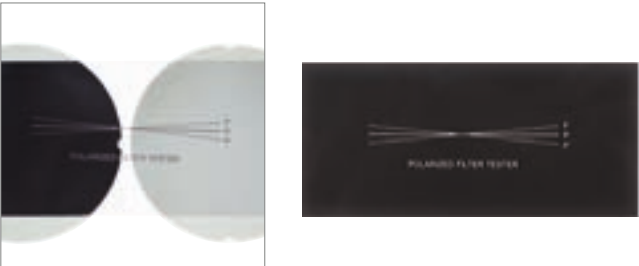
To control the axis for uncut lenses, finished lenses and varifocal lenses.




2367 00  130 x 18 x 85 mm

Polarized Filter Tester

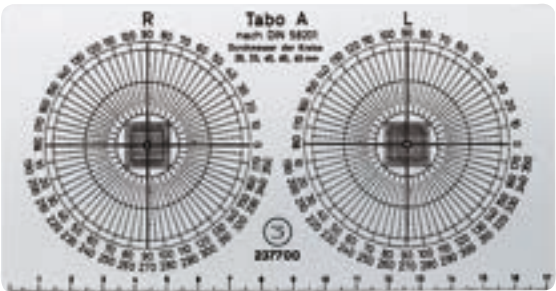
To control the axis for uncut and finished polarized lenses.




2379 00  120 x 1 x 50 mm

Axis Layout

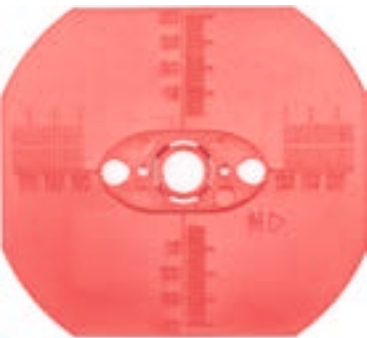
According to DIN 58201, Aluminium, etched scale, formulas to determine prism on decentrated lenses on rear.
Measuring range: 0–170 mm





2377 00  175 x 1 x 90 mm

Formers

Plastic with scale on one side and cross hair on the other side, can be cut with paper scissors.



2395 30  71 x 1.5 x 65 mm  100 pieces

PD Ruler Transparent

Polycarbonate.

With holes to measure screw threads.

Measuring range: 0–160 mm (mm scale)



2373 00 | 205 mm | 3 pieces

PD Ruler

PVC.

With rear centering ring for nose bridges.

For simpler reading of markings.

Measuring range: 0–140 mm (mm scale)



2325 00 | 165 mm | 2 pieces

Multipurpose PD Ruler

According to Bremer, plastic, for total PD, monocular PD, segheight, bridge size and pantoscopic angle.

Measuring range: 0–145 mm (mm scale)



2376 00 | 155 mm

PD Ruler

Plastic.

Measuring range: 0–170 mm (mm scale)



2374 00 | 180 mm

Ruler Metal

Flexible, etched scale.

Measuring range: 0–150 mm (mm scale)



2320 01 | 165 mm

Angle Measuring Device 180°

Metal.

Angle range: 0–180°



2366 00 | 45 x 174 mm





CONSUMABLES

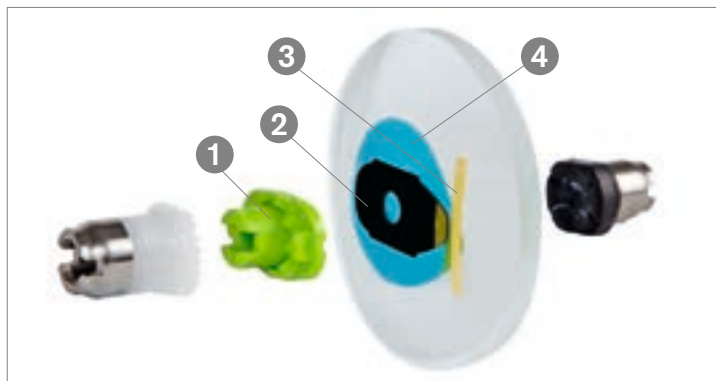
for first aid measures



- E 2 Lens Blocks and Adhesive Pads
- E 8 Lens Protection and Anti-Torsion Foil
- E 9 Anti-Foaming Agent and Abrasive Stones
- E 10 Lens Marking Pens
- E 11 UV Gel
- E 12 Glues and Screw Securing
- E 17 Oils and Cleaners
- E 20 Dyes
- E 21 Disinfectant Wipes
- E 22 Tips & Tricks: Plasti Dip
- E 24 Repair Colours and Repair Pens
- E 27 Tips & Tricks: Polishing
- E 28 Buffing Wheels and Brushes
- E 30 Polishing and Grinding Wax
- E 32 Abrasives
- E 34 Solder and Flux



- 1 Lens Block
- 2 Adhesive Pad
- 3 Anti-Torsion Foil
- 4 Protection Foil (back of the lens)



NIDEK Lens Block Pliable Cup

Flexible lens block for NIDEK machines with original NIDEK pick up.

Due to the larger surface of the lens block the risk of axis distortion is reduced.

Please use the matching B & S adhesive pads No. 2502 17, 2503 17, 2506 17, 2507 17, 2508 17, 2510 17, 2511 17 or 2512 17 only!

Up to curve 8.

Ø 30 x 17 mm

10 pieces



3710 17N



3710 17R
Red (left lens)



3710 17G
Green (right lens)



3710 50
Mixed colours for right and left lenses (5x red and 5x green)

For high curves **from base 8.**

Ø 30 x 17 mm

10 pieces



3711 17

NIDEK Lens Block Mini Cup

Flexible lens block for NIDEK machines with original NIDEK Mini pick up. For small and flat shapes only.

Up to curve 6.

Ø 20 x 15 mm

10 pieces



3714 15



3714 15R
Red (left lens)



3714 15G
Green (right lens)



3714 50
Mixed colours for right and left lenses (5x red and 5x green)

NIDEK Lens Block Nano Cup

Flexible lens block for NIDEK machine LEX 1000.

For very small and flat shapes. To be used with the complete outer ring.

Please use the matching B & S adhesive pad No. 2503 13 only!

Up to curve 6.

Ø 30 x 17 mm/18 x 13.5 mm

10 pieces



3715 13R
Red (left lens)



3715 13G
Green (right lens)



3715 13
Mixed colours for right and left lenses (5x red and 5x green)



Vario Block

Flexible plastic, for adhesive pads. Suitable for WECO-system.

Ø 25 x 20 mm

10 pieces



3700 20
White
Flat curve

Ø 25 mm

25 pieces



3700 25
White
Flat curve

Ø 25 x 20 mm

10 pieces



3701 20
Red
For high plus lenses

Ø 25 mm

25 pieces



3701 25
Red
For high plus lenses



Adhesive pads should not be stored longer than 6–12 months depending on the material. Storage should be at room temperature (approx. + 18 °C) and with a humidity of approx. 30 %. For an optimum adhesive strength please store the adhesive pads in your refrigerator and remove them 15 minutes before using them!



Adhesive Pads
for Super Hydrophobic Lenses

- Material: Ethyl vinyl acetate foam
- Integrated anti-torsion foil
- In a dispenser box

 0.9 mm  1 roll (500 pieces)



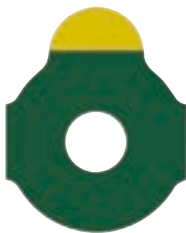
2511 17



2511 19



2511 22



2511 24

Order No.	Ø in mm	Adhesive power	Protection against axis slip	Type	for blocker
2511 17	31 x 17	very high, for super hydrophobic lenses	very high, including anti-torsion foil	NIDEK	No. 3710 . . 3711 17
2511 19	30 x 18			Universal	
2511 22	22			Universal	
2511 24	24			Universal	

- Material: Ethyl vinyl acetate foam
- Integrated anti-torsion foil
- In a dispenser box

 0.9 mm  1 roll (500 pieces)



2510 17



2510 18




2510 24




Order No.	Ø in mm	Adhesive power	Protection against axis slip	Type	for blocker
2510 17	31 x 17	high, for super hydrophobic lenses	high, including anti-torsion foil	NIDEK	No. 3710 . . 3711 17
2510 18	30 x 18			Universal	
2510 24	24			Universal	

Adhesive Pads for Hydrophobic Lenses

- Material: Polyurethane foam
- In a dispenser box

 0.9 mm

 see table


2507 14



2507 17
2507 171




2507 18
2507 181




2507 22
2507 221



2507 24
2507 241

Order No.	Ø in mm	Adhesive power	Protection against axis slip	Type	for blocker	 (pieces)
2507 14	21 x 14	very high, for hydrophobic lenses	very high	Universal		1 roll (500)
2507 17	31 x 17			NIDEK	No. 3710 .. 3711 17	1 roll (500)
2507 171	31 x 17			NIDEK	No. 3710 .. 3711 17	1 roll (1,000)
2507 18	30 x 18			Universal		1 roll (500)
2507 181	30 x 18			Universal		1 roll (1,000)
2507 22	22			Universal		1 roll (500)
2507 221	22			Universal		1 roll (1,000)
2507 24	24			Universal		1 roll (500)
2507 241	24			Universal		1 roll (1,000)

- Material: Polyurethane foam
- In a dispenser box

 0.9 mm

 1 roll (1,000 pieces)


2512 17



2512 19



2512 22



2512 24

Order No.	Ø in mm	Adhesive power	Protection against axis slip	Type	for blocker
2512 17	31 x 17	very high, for hydrophobic lenses	very high	NIDEK	No. 3710 .. 3711 17
2512 19	30 x 19.5			Universal	
2512 22	22			Universal	
2512 24	24			Universal	



Adhesive Pads for Hydrophobic Lenses

- Material: Polyurethane foam
 - In a resealable polybag
-  0.9 mm

 10 strips (200 pieces)



2508 17



2508 18



2508 24

Order No.	Ø in mm	Adhesive power	Protection against axis slip	Type	for blocker
2508 17	31 x 17	high, for hydrophobic lenses	high	NIDEK	No. 3710 . . 3711 17
2508 18	18			Universal	
2508 24	24			Universal	

Adhesive Pads for Standard Lenses

- Material: PVC film
 - Comparable with 411 quality (thin very strong line)
 - In a dispenser box
-  0.38 mm

 see table



2502 17



2502 18




2502 19



2502 21





2502 24


Order No.	Ø in mm	Adhesive power	Protection against axis slip	Type	for blocker	 (pieces)
2502 17	32 x 17	high, for standard lenses	high	NIDEK	Nr. 3710 . . 3711 17	1 roll (1,000)
2502 18	18			Universal		1 roll (1,000)
2502 19	28 x 18			Universal		1 roll (500)
2502 21	30 x 21			Universal		1 roll (500)
2502 24	24			Universal		1 roll (1,000)

Adhesive Pads for Standard Lenses


- Material: Ethyl vinyl acetate foam
- 3M Leap III Adhesive Pads – the original 3M with double pull tabs
- In a dispenser box
- In a resealable polybag (2503 13)


 0.8 mm

 see table


Order No.	Ø in mm	Adhesive power	Protection against axis slip	Type	for blocker	 (pieces)
2503 13	31 x 17 18 x 13.5	very high, for standard lenses	very high	NIDEK Nano-Cup	No. 3715 13 (two-piece)	5 strips (100)
2503 17	31 x 17			NIDEK	No. 3710 .. 3711 17	1 roll (1,000)
2503 18	18			Universal		1 roll (1,000)
2503 26	26			Universal		1 roll (1,000)

- Material: Polyolefin foam (2501 ..), Polyethylene foam
- In a dispenser box

 0.9 mm (2501 18)

 0.8 mm


 1 roll (1,000 pieces)


Order No.	Ø in mm	Adhesive power	Protection against axis slip	Type	for blocker
2506 17	31 x 17	high, for standard lenses	high	NIDEK	No. 3710 .. 3711 17
2501 18	18			Universal	
2501 24	24			Universal	
2500 19	30 x 18			Universal	
2500 22	22			Universal	
2500 24	24			Universal	







Lens Protection and Anti-Torsion Foil



Order No.	Ø in mm	Product information	Field of application	 (pieces)
Anti-torsion foil				
2560 30	40 x 28	To protect the front and back of the lens during the edging process. This protection foil is especially made for lenses with high-quality coatings. Storing period for adhesive pads: 6 months.	For lenses with + 4.5 dpt. on the front surface.	1 roll (500)
2560 31	40 x 28	To protect the front and back of the lens during the edging process. This protection foil is especially made for lenses with high-quality coatings. Storing period for adhesive pads: 6 months.	For lenses with + 4.5 dpt. on the front surface. Oval shape for better handling!	1 roll (500)
2560 32	40 x 26	For high curved lenses. To protect the front and back of the lens during the edging process. This protection foil is especially made for lenses with high-quality coatings. Storing period for adhesive pads: 6 months.	For lenses with high base curve. Especially flexible!	1 roll (500)
2560 42	40 x 26	To protect the front and back of the lens during the edging process. The improved glue of the foil increases the adhesive power on all lenses with hydrophobic coatings. Storing period for adhesive pads: 6 months.	For lenses with + 4.5 dpt. on the front surface and hydrophobic lenses. Oval shape for better handling!	1 roll (500)
Lens protection				
2560 35	35	To protect the back of the lens during the edging process.		1 roll (1,000)

Lens Grip

- Grip spray for lenses with hydrophobic and clean effect coatings
- Works additionally as a protective film to reduce the possibility of scratches and can be applied on the front and rear side
- Prevents axis slippage during the edging process
- Can easily be removed with conventional cleaning agents
- Dries quickly and is economical in use

2562 00	 150 ml	 144 x 50 mm
2562 10	 500 ml	 238 x 63 mm



Environmentally friendly Anti-Foaming Agent

The 100 % ecological compatibility of this item together with its high yield and effectiveness have earned it the B&S title of Top Product. Proving itself with its first use it does away with any annoying creation of foam during the grinding process. Another positive effect is the reduced corrosion of machine parts. Especially recommended by the B&S goes Green team.

Anti-Foaming Agent, blue

- Prevents foaming during grinding process
- Improves the grinding process
- Cools and protects machine parts from corrosion
- Improves overall care of the machine
- Reduces the build-up of grinding waste
- Rapid decline of dirt particles
- Has minimal aerosol development
- Contains no hazardous substances, is physiologically safe
- Very efficient (100 ml grinding additive for 20 litre water)


3148 50

500 ml

Bag Insert for Grinding Water Tank

Made of grey, tearproof plastic.

2900 51

800 x 560 x 0.06 mm

10 pieces



To prevent chemical reactions we recommend changing the water for the edger maximum every second week.



Whetstone for Hand Edger, green

- Type: Fine
- Field of application: Diamond wheels, fine

3419 00

100 x 8 x 25 mm

40 g



Abrasive Stones

- Colour: Red
- Type: Rough
- Granulation: 120
- Field of application: Diamond wheels of edgers

3422 12

110 x 12 x 25 mm

927 g

12 pieces



- Colour: White
- Type: Fine
- Granulation: 320
- Field of application: Diamond wheels of edgers

3423 12

100 x 13 x 25 mm

831 g

12 pieces



- Colour: Light blue
- Type: Very fine
- Granulation: 1,500
- Field of application: Diamond polishing wheel

3424 01

100 x 13 x 25 mm

80 g



Retractable Graphite Pencil

- Applicable to foils, spectacle lenses and even surfaces
- White is recommended for dark materials, especially for tinted lenses
- Refillable with leads No. 2624 22 and 2624 55

2624 02



White



2624 05



Red

Replacement Leads

- Suitable for retractable graphite pencil No. 2624 02 and 2624 05
- In plastic box

2624 22



White

12 pieces

2624 55



Red

12 pieces

Lens Marking Pen

- Especially for lenses with clean effect coatings
- Light, water and abrasion resistant ink
- Dries quickly and can be removed with spirit alcohol
- Stroke width: 0.8 mm
- Tip: Round tip

2620 02



White

2 pieces



Lens Marking Pen

- Especially for lenses with clean effect coatings
- Water resistant
- Remove colour with spirit alcohol
- In a patent-registered box
- Two types: Fine and super fine

2625 01



Black, fine

4 pieces

2625 05



Red, fine

4 pieces

2627 01



Black, super fine

4 pieces



Universal Pen, fine

- Waterproof for permanent marking
- With dry safe function – pen can stay open for hours without running dry
- In a patent-registered box

2623 01



Black

4 pieces

2623 05



Red

4 pieces



Ink Remover Pen

The marking on lenses can be easily removed with this ink remover pen and can be used on **all types of lens material**.

2630 00



Foil Pen

Water soluble, smudge-proof foil pen for occlusion foils, lenses and prism foils.

2628 01



Black

2 pieces



Too large, wrongly drilled holes were yesterday

For sealing, for repairs or for repairing small blemishes – the UV-Fix-Gel is the indispensable helper of the optician. Curing by UV light, it can be used, among other things, for glazing and processing rimless frames which can be further processed when cured. Its high strength, crystal-clear colour, non-sticky surface and possible application to polycarbonate set it apart from other products of this kind, giving it the rating of top product.

Available as:

a) UV Gel Applicator

- Perfect for delicate fittings
- Handy, convenient
- No air bubbles in the cannula

3184 03
 3 ml



b) UV Gel Application Bottle

- Convenient application bottle
- Reclosable
- With application tip for precise dispensing

3184 10
 10 ml


Accessories: UV Gel Inverted Holder

- UV glue is always ready for use and can be used up to the last drop
- Stable and perfect for immediate use
- No air bubbles in the cannula
- Supplied without application bottle

3184 09
 40 x 65 x 50 mm

Proformic UV Glue

- Can be applied in several layers
- Cure with special developed and included LED
- Can be reworked in cured condition
- Colour after cure is transparent to slightly yellowish tint
- Solvent-free
- Delivered in a metal case

3186 00
 4 g

Refill Cartridge

3186 01
 4 g


You will find our UV lamps No. 2431 00 and 2421 00 on page A 38.

Instant Adhesive

Loctite 4850

- Superglue especially for **polycarbonate and Trivex**
- Stays flexible after curing
- Colour: Transparent

3162 00  5 g

3162 02  20 g



Loctite 460

- Superglue
- Also suitable for **polycarbonate and Trivex lenses**
- Colour: Transparent

3162 10  20 g



VA 2500 HT

- High viscosity superglue
- Especially for **polycarbonate and Trivex**
- Resistant to liquids
- Remains flexible after curing
- Colour: Transparent

Comparable with Loctite 4850

3165 00  5 g

3165 02  20 g



VA 1460

- Medium viscous superglue
- Suitable for **polycarbonate and Trivex lenses**
- Less susceptible to liquids
- Colour: Transparent

Comparable with Loctite 460

3165 10  20 g



Universal Adhesive

Loctite 401

- All-purpose adhesive
- Also suitable for **wood**
- Not suitable for polycarbonate and Trivex lenses
- Colour: Transparent

3162 20  5 g



Loctite 454 Gel

- General purpose gel
- Ideal when non-drip application is required or for use on vertical or overhead surfaces
- Stays correctable for several seconds
- Ideally suited for applying **rhinestones**
- Not suitable for polycarbonate and Trivex lenses

3162 30  3 g



VA 1401

- Medium viscous universal-adhesive
- Also suitable for **wood**
- Not suitable for polycarbonate and Trivex lenses
- Fast curing
- Colour: Transparent

Comparable with Loctite 401

3165 20  4 g



Glass Glues

Loctite Glass Glue 3494


- Suitable for fixing correction lenses in diving masks
- Solvent-free and crystal clear one-component glue
- For glass and UV permeable plastics

3181 30  25 ml



Glass Adhesive

- To glue lenses into all types of frames, also to be applied as a liquid lining

3177 00  9 ml



Screw Grip

- To remove screws with a damaged head
- Immediate effectiveness (without curing)
- Simply wipe off after use

3168 00  20 g



- The filling level of the glues can vary due to the production process
- The details of the firmness refer to the usage of frame screws and can therefore differ to the manufacturers information



Plastic and all Purpose Glues

Super Glue

- Newly developed Pen-System which enables pen positioning
- Easy application, clean processing and improved dosing
- Area of application: **Plastics, rubber, metal, balsa wood, leather**
- Final strength after 24 hours
- Not suitable for polycarbonate and Trivex lenses



3185 12  12 g

Solvent for Glue

- Newly developed Pen-System which enables pen positioning
- Easy application, clean processing and improved dosing
- Solvent for all cyanoacrylate glues
- Short curing time
- Not suitable for polycarbonate and Trivex lenses



3185 22  30 g

Adhesive SICO MET 40

- Fast curing, solvent-free super glue with high flow rate
- Also suitable for **polycarbonate**



3185 30  20 g

Superglue Liquid

- Fast curing, solvent-free
- Versatile and economical to use
- Also suitable for **polycarbonate**



3183 04  4 g

VA 20

- Low-viscosity instant adhesive
- Fast curing, solvent-free
- Also suitable for **polycarbonate**

Comparable with SICO MET 40



3185 40  20 g

Screw Securing

Loctite 221

- Low firmness
- Colour: Red

3159 00  10 ml



Loctite 243

- High firmness
- Colour: Blue

3161 00  10 ml

3161 05  50 ml



LOCK AN 302-21

- Newly developed Pen-System which enables pen positioning
- Easy application, clean processing and improved dosing
- Low firmness
- Colour: Red

Comparable with Loctite 221

3160 00  20 ml



LOCK AN 302-43

- Newly developed Pen-System which enables pen positioning
- Easy application, clean processing and improved dosing
- High firmness
- Colour: Blue

Comparable with Loctite 243

3164 00  10 ml

3164 05  50 ml



Screw Fastener with Patented Dispenser Tip

- Low firmness
- Colour: Blue

3178 00  10 g



- The filling level of the glues can vary due to the production process
- The details of the firmness refer to the usage of frame screws and can therefore differ to the manufacturers information

Stand for Mixing Bowl

1406 00



Application Tips made of Plastic

- For exact dispensing of screw fastener
- Inner diameter: 0.84; 0.5 and 0.41 mm

1405 10

3 pieces



Plastic Bottle

- Material: LDPE
- Capacity: 1 l

1488 03



Fluid Dispenser

- Fluid dispenser for acetone, petrol, alcohol, B & S special cleaner No. 3175 . . etc.
- Pump mechanism, can be used with one hand, reduces odour, plastic HDPE, with steel cover
- With pre-printed sticky labels
- Capacity: 125 ml

1487 10



Mixing Bowl

1407 00

21 mm

6 pieces



Application Tips

- Short metal tip for easy dispensing of super glue
- Long, flexible plastic tip can be shortened if tip becomes blocked
- Inner diameter: each with 0.84 and 0.25 mm

1405 20

4 pieces



Fluid Dispenser

- Fluid dispenser for acetone, petrol, alcohol, B & S special cleaner No. 3175 . .etc.
- Pump mechanism, can be used with one hand, reduces odour
- PP material with plastic cover
- Capacity: 120 ml

1489 00

3 pieces



Acetone

- To bond plastic frames
- To clean surfaces
- For plastic frames (no Optyl)

3173 00  100 ml



Special Cleaner for Spectacle Lenses

- Cleaner for polycarbonate, plastic and Trivex lenses
- Ideal for removing lens markings on progressive lenses
- Optimal dosage with B & S fluid dispenser No. 1487 10 and 1489 00

3175 02  250 ml

3175 10  1 l



Oil Dropper

- Body made of aluminum
- With single drop release
- Use for acid-free oil and also alkali oil
- Capacity: 5 ml

2742 00  145 mm



Oil

- For spectacle hinges, high quality, non-acidic

3171 00  20 ml



Drill Oil

- For cooling during drilling

3170 00  100 ml



Compressed-Air Spray

Removes dust and fluff quickly and reliably from sensitive surfaces and parts which are not easily accessible.

Applications: Optics, instruments, medical technology, clock pieces, keyboards, hi-fi, videos, electrical equipment and model making

3174 15  400 ml



Silicone Spray Loctite 8021

Cleans and protects automatic grinders, machinery and equipment. Impregnates rubber, plastic and leather. Repels dirt and water, eases friction parts. Protects against corrosion and oxidation.

Important!

Do not allow spray to come into contact with spectacle lenses.

3174 10  400 ml



Silicone Care Spray

Cleans and protects grinding units, machines and devices. Impregnates rubber, plastic and leather. Dirt and water resistant. Eases friction on parts. Protects against corrosion and oxidation.

Beware!

Do not spray on lenses.

Comparable with Loctite 8021

3174 20  400 ml



OPTOCLEAN

Cleaning concentrate 1:20 for frames and lenses (also plastic lenses) in combination with ultra sound. Dilute with 20 parts water, rinse clean parts with running water and dry.

OPTOCLEAN is a very effective but mild cleaning solution which is suitable for cleaning sensitive materials such as polycarbonate and Trivex.

3157 00  1 l


3157 25  2,5 l



Cleaning Concentrate

Alkaline cleaning concentrate, 1:9 ratio; for extremely dirty metal frames, jewellery and other metal parts, for ultrasonic cleaners. The ammonia ingredient will brighten and freshen up the fine metals as well as coloured metals in an optimal way. The cleaned parts should be rinsed thoroughly under running water and then dried.

Do not use this cleaning solution on polycarbonate and Trivex lenses or other coated plastic lenses.

3158 00  1 l



You will find our Ultrasonic baths on page A 8 to A 11.



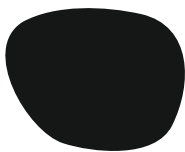


You will find our tinting unit Tinta 2 No. 2880 01 on page A 39.

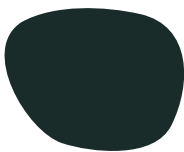
Lens Dye Packets

- Water soluble dye powder for tinting lenses
- Ready prepared for 1 litre tinting solution
- The powder bag dissolves completely when mixed with hot water

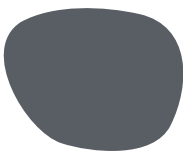
2615 . .  10 g



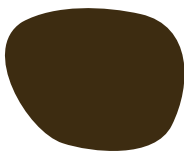
2615 01
Black



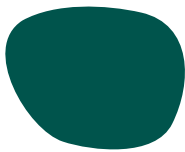
2615 02
Grey green



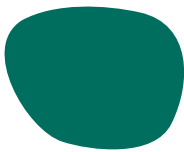
2615 04
Steel grey



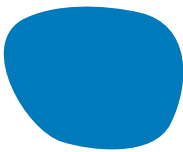
2615 06
Brown



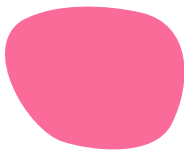
2615 11
Dark green



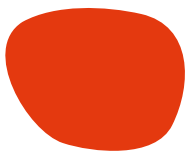
2615 12
Green



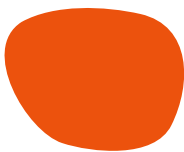
2615 17
Blue



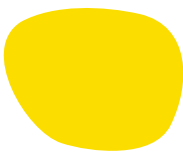
2615 23
Fuchsia



2615 24
Red



2615 26
Orange



2615 29
Yellow

UV Filter Additive

- Water soluble powder
- To apply an UV filter on lenses
- UV-protection to 400 nm
- Ready prepared for 1 litre tinting solution
- The powder bag dissolves completely when mixed with hot water

2616 00  35 g



Heat Transfer Fluid

- Special oil, can be used instead of distilled water
- No loss of liquid by evaporation
- Especially suitable for frequent use

2617 00  1 l



Neutraliser

- Removes colour from tinted lenses

2618 00  1 l



Disinfectant Wipes – Dispenser

- For cleaning and disinfecting of surfaces of refraction units, autorefractometers, keratometers, etc.
- Effective spectrum against bacteria, fungus and viruses (HCV, HIV, Influenza A&B, Polio)
- 100 pieces: 180 x 125 mm

3154 00

Disinfectant Wipes – Refill Pack

- 100 pieces: 180 x 125 mm

3154 01





TIPS & TRICKS

PLASTI DIP RUBBER COATING

Scratch Protection in a Twinkling of an Eye!

Plasti Dip
No. 3169 20, 21, 22
Thinner
No. 3169 10

Container, syringe, stirring spoon

10 approx. 5–10 minutes
without drying period



This is how it works

Option 1: Without thinner – for smooth surfaces (e.g. plier tips)

1 CLEANING

2 STIRRING

3 DECANT UNDILUTED

4 DIPPING

5 DRYING

Option 2: With thinner – for uneven surfaces (e.g. tip of the nose pad arm adjusting plier) | **Repeat step 1–3**

4 FILL THE SYRINGE

5 MIXING AND DIPPING

6 DRYING

TIP: To avoid bubbles don't shake the Plasti Dip, stir carefully. Undiluted Plasti Dip can be refilled into the Plasti Dip can. Diluted Plasti Dip can be stored in a lidded can.

Plasti Dip – Professional Protection whilst Adjusting Frames

Protects, gives grip and stays flexible

Plasti Dip – Multi-Purpose Synthetic Rubber Coating

- Can be used on metal, glass, stone and wood
- Air drying synthetic rubber coating
- Easy to apply by dipping or brushing
- Food safe in cured condition
- 24 hours curing time

Starter Set

Contains 3 colours (black, blue and red) and one bottle of thinner.

3169 51

Plasti Dip

3169 ..  429 ml

3169 20 Black

3169 21 Blue

3169 22 Red

Plasti Dip Thinner

3169 10  250 ml



Repair Pens

With repair pens you can successfully:

- Repair scratches
- Cover solder or welding traces
- Can also be used to cover corrosion caused by perspiration

Usable for metal and plastic frames.

2612 . .



▪ Available in 10 colours:

Order No.	Colour	Code
2612 20	Gloss black	
2612 21	Matt black	
2612 22	Dark blue	
2612 23	Yellow gold	
2612 24	Gunmetal	

Order No.	Colour	Code
2612 25	Light silver	
2612 26	Light brown	
2612 27	Dark brown	
2612 28	Protective lacquer clear gloss	
2612 29	Protective lacquer clear matt	

Repair Pen Set

Consisting of 10 pens.

2612 51



- Thoroughly clean the frame part to be repaired
- Shake the pen and press the tip in several times until you see the colour come through
- Put the colour on the required area
- Leave to dry for 10 to 20 minutes. Use a frame heater to dry quicker
- Not appropriate for paint coats that have received heat treatment


Repair Colours





Coloured quality lacquer for small repairs on frames, for example re-colouring after soldering. The colours may be mixed. The clear lacquer can be used for small repairs of protection lacquer and to optimise the colours.

2611 . .  12 ml



▪ Available in 7 colours plus clear lacquer:

Order No.	Colour	Code
2611 00	White	
2611 01	Black	
2611 02	Metallic silver	
2611 03	Metallic gold	

Order No.	Colour	Code
2611 04	Blue	
2611 05	Red	
2611 08	Brown	
2611 09	Clear Lacquer	

Repair Colour Set

Consisting of all 7 colours plus clear lacquer.

2611 51

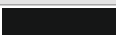





- Thoroughly clean frame parts to be repaired
- Shake the bottle well, you must be able to hear the ball bearing
- Apply the colour to the desired area
- Allow 6 hours to dry

Ink Paste

Permanent ink paste specifically developed to fill laser or pantograph engravings/decorations on plastic and metal frames. Apply the colour on the selected area with a putty knife to fill in the engravings. Remove excess material. Let dry at room temperature for 2–3 hours.

2609 . .  10 g

Order No.	Colour	Code
2609 00	Black	
2609 01	White	
2609 02	Gold	
2609 03	Silver	



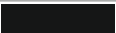





Lens Deco Pens

- To colour lens edges/surfaces and nylon threads
- Water-based and thus environmentally friendly
- For all materials including polycarbonate
- One pen will colour over 300 lenses
- Air dry for only 30 minutes
- Simply wipe off the colour with acetone or spirit with the exception of polycarbonate lenses

2610 ..



▪ Available in 14 colours:

Order No.	Colour	Code
2610 21 ●	Black	
2610 22 ●	Black matt	
2610 23	White	
2610 24 ●	Cognac	
2610 25 ●	Pink	
2610 26 ●	Grey	
2610 27 ●	Plum	

● All included in No. 2610 52

Order No.	Colour	Code
2610 28 ●	Transparent	
2610 29 ●	Light turquoise	
2610 30 ●	Gold	
2610 31 ●	Silver	
2610 32 ●	Blue	
2610 33 ●	Brown	
2610 34 ●	Bordeaux	

Lens Deco Pen Set

- Contains 13 pens
- We reserve the right to change the assortment

2610 52



Clean the lens edge thoroughly with lens cleaner No. 3175 .. or with an ultrasonic cleaning unit before application. For best results do not polish the lens edge. Shake the pen and gently push in the cartridge to fill with colour. For easy application attach the lens to a lens groover. Use lens cleaner No. 3175 00 to clean lens after application. Please screw cap on tightly after each use to prevent the pen from drying out.



TIPS & TRICKS

PERFECTLY POLISHED

*Buffing Wheel?
+ Polishing
Wax?
= The Combination
is Important!*



This is how it works

ACETATE, OPTYL, CELLULOID, PROPIONATE

ROUGH POLISHING

Grinding wax
No. 3120 00

Buffing wheel
No. 3416 10, 3474 00

FINE POLISHING

Polishing wax
No. 3118 00, 3123 00

Buffing wheel
No. 3416 10, 3474 00

HIGH GLOSS POLISHING

Burnishing wax
No. 3118 00, 3125 00,
No. 3126 00

Buffing wheel, wool cone
No. 3470 01, 3471 00, 3472 00,
No. 3561 00, 3571 00, 3582 00

POLYCARBONATE

LENS POLISHING

Polishing past
No. 3127 00

Felt cloth buff
No. 3457 00

CR 39, TRIVEX, PNX

ROUGH POLISHING

Polishing paste
No. 3126 00

Felt discs
No. 3418 00, 3450 00, 3455 10,
No. 3456 00

FINE POLISHING

Polishing paste
No. 3126 00, 3127 00

Felt cloth buff
No. 3457 00, 3474 00

STEEL, WHITE AND PRECIOUS METALS

ROUGH POLISHING

Polishing wax
No. 3144 00

Buffing wheels
No. 3416 10, 3470 01, 3471 00,
No. 3472 00, 3474 00

FINE POLISHING

Polishing wax
No. 3143 00

Buffing wheels
No. 3416 10, 3470 01, 3471 00,
No. 3472 00, 3474 00

HIGH GLOSS POLISHING

Burnishing wax
No. 3126 00

Buffing wheel, wool cone
No. 3470 01, 3471 00, 3472 00,
No. 3561 00, 3571 00, 3582 00

BAKELITE, HORN, CAOUTCHOUC, METAL

Polishing wax
without any wax

Leather buffing wheel
No. 3462 00



Felt Buffing Wheel

- Core: Plastic
- Bore Ø: Conical

Ø 100 mm |—| 15 mm

3418 00



Felt Disc, conical shaped Soft Set Felt

- Core: Centered
- Bore Ø: 8 mm

Ø 100 mm |—| 20:5 mm

3450 00



Felt Disc

- Core: Centered
- Bore Ø: 8 mm

Ø 100 mm |—| 25 mm

3455 10



Felt Disc with Groove

- Core: Centered
- Bore Ø: 8 mm

Ø 100 mm |—| 25 mm

3456 00



Felt Cloth Buff for Polycarbonate

To extend service life the red rings can be separated individually. The felt cloth buff in combination with the polishing wax **No. 3127 00**, is perfectly suited for **polishing Polycarbonate lenses** – optimum speed for the treatment of Polycarbonate: approx. 1,500 rpm.

- Core: Plastic
- Bore Ø: Conical

Ø 80 mm |—| 25 mm

3457 00



Leather Buffing Wheel

Is especially suitable for the final polishing of metal rubber, paladon, bakelite, horn etc. Use the wheel dry **without** any polishing compound.

- Core: Plastic
- Bore Ø: Conical

Ø 90 mm |—| 6 mm

3462 00



Muslin Buffing Wheel

- Core: Leather
- Bore Ø: 6 mm

Ø 125 mm |—| 12 mm

3470 01



Muslin Buffing Wheel

- Core: Leather
- Bore Ø: 6 mm

Ø 125 mm |—| 24 mm

3471 00



Flannel Buffing Wheel

- Core: Leather
- Bore Ø: 6 mm

Ø 125 mm | 30 mm

3474 00



Silicone Impregnated Muslin Wheel

This silicone impregnated fabric structure offers significant advantages: it increases the life of the buffing wheel, due to elimination of fluff. They require less pressure during the polishing process and save 50 % on polishing paste.

- Core: Plastic
- Bore Ø: 6 mm

Ø 100 mm | 12 mm

3472 00



Buffing Wheel

- Core: Plastic
- Bore Ø: 8 mm

Ø 100 mm | 10 mm

3416 10



Wool Brush

- Core: Wood
- Bore Ø: 6 mm

Ø 70 mm | 35 mm

3561 00



Wool Brush

- Core: Plastic
- Bore Ø: Conical

Ø 80 mm | 25 mm

3582 00



Yarn Brush

- Core: Plastic
- Bore Ø: Conical

Ø 90 mm | 20 mm

3575 00



Buffing Wool Cone

The buffing wool cone is manufactured in such a way that it can be mounted on a conical polishing tip. A different kind of fixing is not available. Due to the length of the axis unbalanced run may occur.

- Core: Wood
- Bore Ø: Conical

Ø 30:15 mm | 70 mm

3571 00



"Perfectly Polished" (see page E 27)



To prevent polishing buffs from fraying these can be napped before first use using a sharp object. However due to the properties of the material cotton cloth is not completely free of fluff.

For all buffing wheels with plastic core

Plastic cores have conical borings. While attaching to the polishing tip, the cone of the tip and the boring have to match.



To ensure the buffing wool cone No. 3571 00 runs safely it's necessary to check if the cone can be screwed onto the polishing tip for at least 2 cm.



Corresponding to the "European Safety Regulations for the correct use of grinding wheels" the following has to be observed:

1. Wheels with a total diameter of 100 mm or more have to be flanged $\frac{2}{3}$ on both sides.
2. The maximum running speed has to be observed.
3. During operation safety goggles (see accessories catalogue) have to be worn.



Polired

3143 00



Applications with approx. 2,800 rpm:	Buffing and smooth polishing: Cloth buffing wheels
Field of application:	Gold, steel
Weight:	approx. 60 g

Poligreen

3144 00



Applications with approx. 2,800 rpm:	Buffing and smooth polishing: Cloth buffing wheels
Field of application:	White metals
Weight:	approx. 60 g

Polibblue

3145 00



Applications with approx. 2,800 rpm:	Buffing and smooth polishing: Cloth buffing wheels	Buffing and smooth polishing: Cloth buffing wheels
Field of application:	White metals	Plastic and caoutchouc rubber
Weight:	approx. 60 g	approx. 60 g

Burnishing Wax, yellow

3126 00



Applications with approx. 3,500 rpm:	High gloss polishing: Cloth buffing wheels
Field of application:	Stainless steel, aluminum, metal, plastic
Weight:	approx. 500 g



Please take note of our small tools assortment including the silicone polisher No. 2240 57 on page C 31.

Grinding Wax, grey

3120 00



Polishing Wax, blue

3118 00



Applications with approx. 2,800 rpm:	Rough polishing: Cloth buffing wheels (approx. 2,300 rpm)	Buffing and smooth polishing: Wool wheels, cloth buffing wheels
Field of application:	Plastic	Plastic, optyl
Weight:	approx. 200 g	approx. 700 g

Burnishing Wax, beige

3123 00



Burnishing Wax, beige

3125 00



Applications with approx. 3,500 rpm:	Mirror gloss polishing: Wool wheels, cloth buffing wheels	High gloss polishing: Wool wheels
Field of application:	Plastic	Plastic
Weight:	approx. 200 g	approx. 200 g

Polishing Wax, blue, for Polycarbonate

The polishing paste is a high gloss polishing paste with "Diamantine" being perfectly suited for polishing **Polycarbonate lenses** as well as for the materials **Titanium, Platinum and Palladium**. The best polishing results will be achieved with the felt cloth **No. 3457 00** which has a patented conical flange (refer to page E 28).

3127 00



Applications with approx. 2,800 rpm:	High gloss polishing: Felt cloth buffing wheel, wool wheels
Field of application:	Polycarbonate, Titanium, Palladium
Weight:	approx. 100 g




"Perfectly Polished" (see page E 27)



You will find our polishing motors
on page A 24 and A 25.

Abrasive Bar, flat

- Working area: 230 x 18 x 4 mm

3253 . .  2 pieces

3253 10 Granulation: 100


3253 22 Granulation: 220

3253 40 Granulation: 400



Abrasive Bar, triangular

- Working area: 230 x 11 mm
- Working angle: 60°

3254 . .  2 pieces

3254 10 Granulation: 100


3254 22 Granulation: 220

3254 40 Granulation: 400



Abrasive Bar, half-round

- Working area: 230 x 17 x 12 mm

3255 . .  2 pieces

3255 10 Granulation: 100

3255 22 Granulation: 220


3255 40 Granulation: 400



Assortment of Abrasive Bars

- Shapes: flat, triangular, half round
- Granulation: 100, 220 and 400



3253 99  18 pieces (2 per granulation and shape)

Abrasive Paper

3251 . .  230 x 280 mm

 5 sheets

3251 18 Granulation: 180

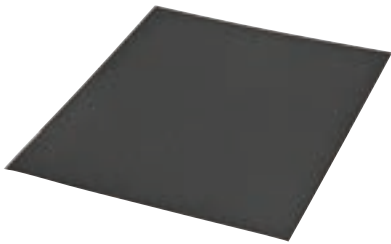
3251 24 Granulation: 240

3251 32 Granulation: 320

3251 40 Granulation: 400


3251 60 Granulation: 600

3251 80 Granulation: 800



Abrasive Rubber

To clean solder points,
to dull metals and plastic.

3412 . .  80 x 20 x 50 mm

3412 01 Granulation: Rough

3412 02 Granulation: Medium

3412 03 Granulation: Fine



Graining Brush

- Core: Plastic
- Bore Ø: Conical
- Wire diameter: 0.6 mm
- Working speed: max. 2,800 rpm

To create a wood grain effect on acetate material.




3510 00  100 mm



Brass Cleaning Brush

- Core: Metal
- Bore Ø: Conical


3506 00

 50 mm  10 mm  25 g



Diamond Tool Cleaner


Pencil shaped; a bundle of 1,500 finest steel wires guarantees the cleaning of drill bits, millers and diamond drill bits. The grade is adjustable.

3501 00  120 mm



Filing Brush


- Flat
- Coated surface: 105 mm

3516 00  250 x 35 mm



Marking Needle


- With hard metal tip
- Ball pen type
- Retracts for safety
- Black plastic grip to optimise the handling
- Spare tips available

2302 00  117 mm



Tips for Marking Needle




- Hard metal spare tips

2302 10  2 pieces

Grinding Sponge Disc

- Granulation: 46
- Max. speed: 4,780 rpm
- Bore Ø: 8 mm

3426 10

 100 mm  20 mm  260 g




Accessories for Soldering and Welding Units

Gas Cartridge

- For handheld soldering unit No. 2763 00 and Micro Torch Set No. 2762 05 and 2762 00 (discontinued)
- Liquid gas
- Burning duration: approx. 3.5 h at low flame


2761 06  70 ml




 This is not liquid gas.
The cartridge lasts for approx. 45 minutes.

Gas Cartridge

- For use with hand held solder unit No. 2727 30 (discontinued)
- Butane gas

2737 01  400 ml



 Due to legal requirements gas and oxygen will be delivered in separate packaging.

Oxygen Bottle

- For Micro Torch Set No. 2762 05 and 2762 00 (discontinued)
- Oxygen gas (no liquid gas)

2760 02  13 g



Solder Dispenser

For Degussa solder No. 3007 00.
Opening: 1.8 mm



2059 00  200 mm  20 g

Welding Wires for Laser or TIG Welding

Silver Palladium Wire

Only for use with spectacle frames with **nickel content, such as monel or German silver.**
Material strength: 0.4 mm

3043 30  2 x 25 cm



Titanium Wire

Only for use with **titanium frames.**
Material strength: 0.3 mm

3043 10  2 x 25 cm



Electrolyte

3198 00  800 ml




Flux

3199 01  1 l



Heatstop

- Isolating paste for all types of soldering
- Prevents the distribution of heat in metal
- Consistency: Paste

3029 00  100 g



BrazeTec h 80 Flux

- For difficult to process materials, such as **stainless steel**
- Leaves no residue on the soldered area
- Consistency: Paste

3114 00  100 g



BrazeTec h Flux

- Consistency: Paste

3112 00  100 g

3112 05  500 g



If dried out, welding flux and heat stop can be sprayed with distilled water.

Silver Solder, white fluid

- For jewellery and frames
- To use without additional flux
- Metal contents: 56 % Ag
- Melting point: 650 °C
- Form: Paste in a dispensing cartridge

3002 00  8 g

white fluid, flux included



You will find our soldering unit No. 2839 60 and further accessories on page A 31 to A 33.



Hard Solder silver

3003 00



Silver Solder Degussa 600 L 3

3007 00



Field of application:	Bronze, nickel, stainless steel	Jewellery
Metal contents:	60 % Ag without Cd	60 % Ag without Cd
Melting point:	680 °C	680 °C
Recommended Flux:	3112 . . BrazeTec h	3112 . . BrazeTec h
Form:	0.5 mm wire Ø	0.4 mm wire Ø in dispenser
Sales unit:	5 g	2 g
Length:	approx. 230 cm	approx. 110 cm

Silver Solder Degussa 6002 without Cd

3008 00



Phantom Solder

3010 00



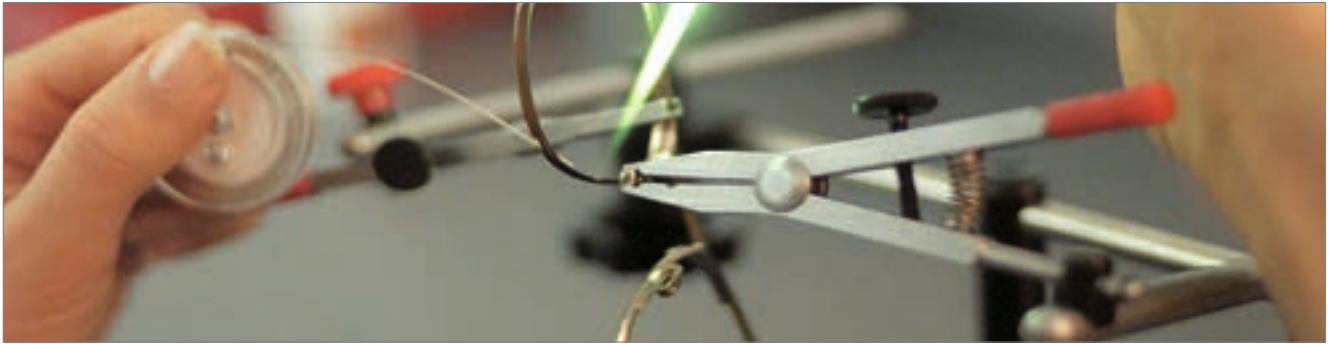
Field of application:	Jewellery	For practice, also suitable for nickel-free material
Metal contents:	60 % Ag, 23 % Cu, 14.5 % Zn, 2.5 % Sn	55 % Ag, Sn
Melting point:	680 °C	660 °C
Recommended Flux:	3112 . . BrazeTec hh	3112 . . BrazeTec h
Form:	0.5 mm wire Ø	0.5 mm wire Ø in dispenser
Sales unit:	5 g	3 g
Length:	approx. 280 cm	approx. 130 cm

Solder wire, white fluid

3014 00



Field of application:	All silver alloy over 800 ‰ fineness
Metal contents:	675 ‰ Ag
Melting point:	710 °C
Recommended Flux:	3112 . . BrazeTec h
Form:	0.4 mm wire Ø
Sales unit:	5 g
Length:	approx. 230 cm



Gold Solder, 8 Ct

3016 00



Solder Wire, yellow fluid

3015 00



Field of application:	Jewellery and metal frames of gold alloy	All standard metals such as silver, nickel, chrome, stainless steel, brass, etc.
Metal contents:	333 ‰ Au	55 % Ag, 21 % Cu, 22 % Zn, 2 % Sn
Melting point:	590 °C	660 °C
Recommended Flux:	3112 . . BrazeTec h	3112 . . BrazeTec h
Form:	Wire 0.5 mm Ø	Wire 0.4 mm Ø
Sales unit:	1 g	5 g
Length:	approx. 70 cm	approx. 75 cm

Universal Solder, white fluid

3022 03



white fluid, flux included

Field of application:	All standard metals such as silver, nickel, chrome, stainless steel, brass, etc.
Metal contents:	40 % Ag
Melting point:	700 °C
Recommended Flux:	Without flux
Form:	Tube 1 mm Ø
Sales unit:	3 tubes at 150 mm each

Pallarium – Universal Solder, white fluid

3023 00



white fluid, flux included

Field of application:	All standard metals such as nickel, silver, chrome, stainless steel, gold, brass and others
Metal contents:	45 % Ag
Melting point:	580 °C
Recommended Flux:	Without flux
Form:	Tube 1 mm Ø
Sales unit:	12 rods at 150 mm each

Pallarium – Universal Solder, gold fluid

3023 01



gold fluid, flux included

Field of application:	All standard metals such as nickel, silver, chrome, stainless steel, gold, brass and others
Metal contents:	33 % Ag
Melting point:	620 °C
Recommended Flux:	Without flux
Form:	Tube 1 mm Ø
Sales unit:	12 rods at 150 mm each





SPECTACLE FRAME PARTS

in exact dosage with targeted effect



- F 2 Overview: Nose Pads
- F 13 Nose Pad Cushions
- F 14 Tips & Tricks: Self-adhesive Nose Pad Cushion
- F 16 Tips & Tricks: Nose Pad Arms
- F 17 Nose Pad Arms
- F 20 Overview: Screws and Nuts
- F 33 Tips & Tricks: 4-in-1 Screws
- F 50 Washers and Sleeves
- F 54 Hinges
- F 58 Overview: Temples and Temple Ends
- F 66 Tips & Tricks: Sport Temple Ends
- F 74 Tips & Tricks: Shrinking Tubes
- F 76 Long Temple Ends
- F 77 Temples
- F 81 Spare Parts for Rimless Frames with Sleeves Mounting
- F 84 Lens Washer
- F 85 Nylon Threads
- F 86 Exercise Samples for Trainees



The B&S Nose Pad Range:

- Extensive selection
- For all applications
- Easy to find. Simple to order



Ordering in 3 Steps

1. Select the material (content on the right)
2. Select size and shape
3. Select mounting type

Mounting Systems



**Push-in
System**



**Screw-in
System**



**Screw-in AND
Push-in System**

Worth Knowing

f&w & The Icons guarantees:

- High-quality basic materials
- Maximum durability and optical transparency
- Colour stability
- No flashes



f&w Premium Nose Pads Made in Germany offers:

- Silicone pads made of medical silicone for highest transparency
- PVC nose pads without phthalate containing plasticiser
- Small cast points for better wear comfort
- Rounded edges
- High dimensional accuracy and high quality of the composite materials
- Certified according to DIN EN ISO 9001 and 13485

Logic[®]










Smart, Universal Nose Pads

U.S. Patent No. 5.872.612

Hilco Pads Logic[®]:

- Patent nose pads, suitable for screw-in AND push-in systems
- Premium anti-slip-silicone
- Reduces the nose pad stock by up to 50 %

Overview for Simple Selection






	Silicone Nose Pads <ul style="list-style-type: none"> Symmetrical Nose Pads Ultra Slim, Symmetrical Nose Pads Round and Classic 	F 4 F 4 F 5
	Comfort Nose Pads <ul style="list-style-type: none"> Air Active Biofeel 	F 6 F 6
	Silicone Nose Pads and TPE Pads <ul style="list-style-type: none"> Saddle Bridges "System 3" Primadonna System Air Titanium and Minimal Art 	F 7 F 7 F 8 F 8
	PVC Nose Pads, Medium Soft <ul style="list-style-type: none"> Primadonna System Air Titanium and Minimal Art With Plastic Insert With Metal Insert 	F 8 F 8 F 9 F 9
	Plastic Nose Pads, Hard <ul style="list-style-type: none"> Ultra slim 	F 10
	Special Nose Pads and Nose Bridges <ul style="list-style-type: none"> Nose Pads for Special Applications Nose Pads for ic! berlin Frames Logic® Silicone Nose Bridges Nose Pads for Ray Ban Frames 	F 11 F 11 F 11 F 11 F 12
	Hypo-allergenic Special Nose Pads <ul style="list-style-type: none"> Glass Titanium 	F 12 F 12
	Nose Pad Cushion <ul style="list-style-type: none"> Sponge Silicone 	F 13 F 14–F 15
	Nose Pad Arms <ul style="list-style-type: none"> For Plastic Frames For Metal Frames 	F 16–F 18 F 19
	Assortments <ul style="list-style-type: none"> Silicone Nose Pad Assortment 	F 5



Silicone Nose Pads








Symmetrical Nose Pads, "Push-in" System

 10.0 mm	f&w	0227 10	20 pieces
		0227 10-100	100 pieces
		0227 10-200	200 pieces
 13.0 mm	f&w	0227 13	20 pieces
		0227 13-100	100 pieces
		0227 13-200	200 pieces
 14.5 mm	f&w	0227 15	20 pieces
		0227 15-100	100 pieces
		0227 15-200	200 pieces
 16.0 mm	f&w	0227 16	20 pieces
		0227 16-100	100 pieces
		0227 16-200	200 pieces
 18.0 mm	f&w	0227 18	20 pieces
		0227 18-100	100 pieces
		0227 18-200	200 pieces







Symmetrical Nose Pads, "Screw-in" System

 10.0 mm	f&w	0228 10	20 pieces
		0228 10-100	100 pieces
		0228 10-200	200 pieces
 13.0 mm	f&w	0228 13	20 pieces
		0228 13-100	100 pieces
		0228 13-200	200 pieces
 14.5 mm	f&w	0228 15	20 pieces
		0228 15-100	100 pieces
		0228 15-200	200 pieces
 16.0 mm	f&w	0228 16	20 pieces
		0228 16-100	100 pieces
		0228 16-200	200 pieces
 18.0 mm	f&w	0228 18	20 pieces
		0228 18-100	100 pieces
		0228 18-200	200 pieces



Ultra Slim, Symmetrical Nose Pads, "Push-in" System

 13.0 mm 		0219 13	20 pieces
		0219 13-50	50 pieces
		0219 13-100	100 pieces
 15.0 mm 		0219 15	20 pieces
		0219 15-50	50 pieces
		0219 15-100	100 pieces



Ultra Slim, Symmetrical Nose Pads, "Screw-in" System

 13.0 mm 		0229 13	20 pieces
		0229 13-50	50 pieces
		0229 13-100	100 pieces
 15.0 mm 		0229 15	20 pieces
		0229 15-50	50 pieces
		0229 15-100	100 pieces

Silicone Nose Pads






Round and Classic, "Push-in" System

	f&w	0278 09	20 pieces
		0278 09-100	100 pieces
<hr/>			
	f&w	0216 15	10 pairs
		0216 15-50	50 pairs
		0216 15-100	100 pairs
<hr/>			
	f&w	0216 17	10 pairs
		0216 17-50	50 pairs
		0216 17-100	100 pairs
<hr/>			
	f&w	0216 19	10 pairs
		0216 19-50	50 pairs
		0216 19-100	100 pairs



Round and Classic, "Screw-in" System

	f&w	0288 09	20 pieces
		0288 09-100	100 pieces
<hr/>			
	f&w	0226 15	10 pairs
		0226 15-50	50 pairs
		0226 15-100	100 pairs
<hr/>			
	f&w	0226 17	10 pairs
		0226 17-50	50 pairs
		0226 17-100	100 pairs
<hr/>			
	f&w	0226 19	10 pairs
		0226 19-50	50 pairs
		0226 19-100	100 pairs


Silicone Nose Pad Assortment

In organiser boxes No. 1458 20.

Contents: 12 of the most used silicone nose pads and nose bridges, altogether 172 pieces

We reserve the right to change the assortment.

0200 10

 210 g



Our small parts organiser boxes can be found on page G 12 and G 13.

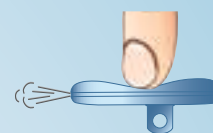





Comfort Nose Pads







Air Active Pads


consist of extremely flexible silicone material which **offers the wearer extra comfort due to the air cushions** and helps to avoid pressure marks.




Air Active Pads, Symmetrical, "Push-in" System			
	f&w	0296 13	10 pieces
13.0 mm		with plastic insert	
	f&w	0296 14	10 pieces
14.5 mm		with plastic insert	
	f&w	0296 17	10 pieces
17.0 mm		with plastic insert	

Air Active Pads, Symmetrical, "Screw-in" System			
	f&w	0297 11	10 pieces
11.0 mm			
	f&w	0297 14	10 pieces
14.5 mm			
	f&w	0297 17	10 pieces
17.0 mm			
	f&w	0297 25	10 pieces
14.5 mm		with plastic insert	

"System 3 AirTec"

	f&w	0298 11	10 pieces
11.0 mm			

"System 3 AirTec"





	f&w	0298 12	10 pieces
11.9 mm			


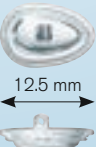


Biofeel Pads

are made from flexible silicone material which **offers the wearer extra comfort due to the gel cushions** and helps to avoid pressure marks.



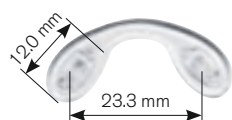
Biofeel Pads, "Push-in" System			
		0214 01	2 pairs
12.5 mm			
		0214 10	10 pairs
12.5 mm			

Biofeel Pads, "Screw-in" System			
		0211 01	2 pairs
12.5 mm			
		0211 10	10 pairs
12.5 mm			

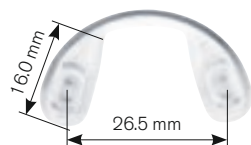
Silicone Nose Pads and TPE



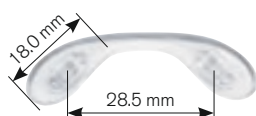
Saddle Bridges Silicone, "Push-in" System



f&w 0225 12 3 pieces
0225 12-9 9 pieces



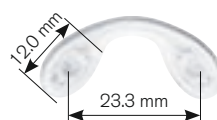
f&w 0225 16 3 pieces
0225 16-9 9 pieces



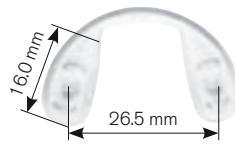
f&w 0225 18 3 pieces
0225 18-9 9 pieces



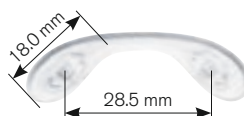
Saddle Bridges Silicone, "Screw-in" System



f&w 0235 12 3 pieces
0235 12-9 9 pieces



f&w 0235 16 3 pieces
0235 16-9 9 pieces



f&w 0235 18 3 pieces
0235 18-9 9 pieces

"System 3" Silicone



f&w 0279 11 20 pieces



f&w 0279 13 20 pieces



f&w 0279 51 10 pairs
cuneiform

"System 3 Dash M" Silicone



f&w 0276 11 20 pieces

With modified, movable base for better comfort.

"System 3" TPE (Thermoplastic elastomer)



f&w 0274 11 20 pieces


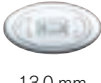


The suitable pad arm No. 0276 01 is shown on page F 19.







Silicone Nose Pads and PVC Nose Pads, Medium Soft









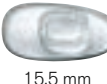



Primadonna System Silicone

 9.0 mm	f&w	0280 09	20 pieces
 13.0 mm	f&w	0212 13	20 pieces
		0212 13-100	100 pieces
 14.5 mm	f&w	0212 15	10 pairs
			




Primadonna System PVC

 13.0 mm	f&w	0213 13	20 pieces
		0213 13-100	100 pieces
 14.5 mm	f&w	0213 15	10 pairs
			











Air Titanium and Minimal Art Silicone

 8.0 mm	f&w	0279 08	20 pieces
		0279 08-100	100 pieces
 9.0 mm	f&w	0279 09	20 pieces
		0279 09-100	100 pieces
 9.5 mm	f&w	0279 10	20 pieces
		0279 10-100	100 pieces
		Greater stability due to inserted plastic pin.	
 12.0 mm	f&w	0279 12	20 pieces
			
 15.5 mm	f&w	0279 15	20 pieces
			
 11.0 mm		0270 11	10 pairs
			










Air Titanium and Minimal Art PVC

 9.5 mm	f&w	0271 09	20 pieces
 11.5 mm	f&w	0271 11	20 pieces
			

PVC Nose Pads, Medium Soft, with Plastic Insert

Transparent, "Push-in" System				Transparent, "Screw-in" System				
		f&w	0272 09 0272 09-100	20 pieces 100 pieces			f&w 0273 09 0273 09-100	20 pieces 100 pieces
		f&w	0272 13 0272 13-100	20 pieces 100 pieces			f&w 0273 13 0273 13-100	20 pieces 100 pieces
		f&w	0272 15 0272 15-50	10 pairs 50 pairs			f&w 0273 15 0273 15-50	10 pairs 50 pairs
		f&w	0272 17 0272 17-50	10 pairs 50 pairs			f&w 0273 17 0273 17-50	10 pairs 50 pairs

PVC Nose Pads, Medium Soft, with Metal Insert

Transparent, Gold, "Push-in" System				Transparent, Gold, "Screw-in" System			
			0231 15	20 pieces			0256 15 20 pieces
Transparent, Silver, "Push-in" System				Transparent, Silver, "Screw-in" System			
							0255 12 20 pieces
			0230 15	20 pieces			0255 15 20 pieces
							0255 17 20 pieces





Ultra slim, especially transparent and light,
"Push-in" System



0253 22

20 pieces

12.0 mm



Ultra slim, especially transparent and light,
"Screw-in" System



0254 22

20 pieces

12.0 mm



Especially transparent and light,
"Push-in" System



f&w

0253 12

20 pieces

13.0 mm



Especially transparent and light,
"Screw-in" System



f&w

0254 12









20 pieces

13.0 mm



Special Nose Pads and Nose Bridges

Nose Pads for Special Applications





 7.0 mm		0201 07	20 pieces
		PVC	To be clipped
 14.0 mm	f&w	0267 14	10 pieces
		Silicone	Pocket system
 19.0 mm		0277 01	3 pairs
		Silicone	To be clipped on vertically

Nose Pads for ic! berlin Frames

 14.0 mm	ic! berlin 	0264 01	4 pieces
		Thermo-plastic elastomer	To be clipped on vertically
 14.0 mm	ic! berlin 	0264 02	4 pieces
		Thermo-plastic elastomer	To be clipped on vertically
 14.0 mm	ic! berlin 	0264 03	4 pieces
		Thermo-plastic elastomer	To be clipped on vertically



Logic®, Symmetrical,
“Screw-in” and “Push-in” System

 13.0 mm	Logic®	0217 13	20 pieces
		0217 13-100	100 pieces
 15.0 mm	Logic®	0217 15	20 pieces
		0217 15-100	100 pieces

Silicone Nose Bridges, small


 14.9 mm	f&w	0241 01	3 pieces
		Gold, for metal frames	
 14.9 mm	f&w	0241 10	3 pieces
		Silver, for metal frames	

Silicone Nose Bridges, large





 16.9 mm	f&w	0242 01	3 pieces
		Gold, for metal frames	
 16.9 mm	f&w	0242 10	3 pieces
		Silver, for metal frames	




Special Nose Pads








Glass, hypo-allergenic, “Push-in” System

 13.0 mm		0248 13	10 pieces
 15.0 mm		0248 15	10 pieces








Glass, hypo-allergenic, “Screw-in” System

 13.0 mm		0249 13	10 pieces
 15.0 mm		0249 15	10 pieces








Titanium, hypo-allergenic, “Push-in” System

 8.0 mm	f&w	0257 08	4 pieces
 Polished		0257 08-10	10 pieces
 13.0 mm	f&w	0203 01	4 pieces
	Polished		
 13.0 mm	f&w	0203 02	4 pieces
	Matt		





Titanium, hypo-allergenic, “Screw-in” System

 8.0 mm	f&w	0258 08	4 pieces
 Polished		0258 08-10	10 pieces
 13.0 mm	f&w	0204 01	4 pieces
	Polished		
 13.0 mm	f&w	0204 02	4 pieces
	Matt		



Silicone with Titanium Screw Holder, hypo-allergenic, “Screw-in” System


 13.0 mm	0259 01	4 pieces
		

Nose Pads for Ray Ban Frames

 15.0 mm	0243 02	10 pieces
	Soft-PVC	With adjustable flaps
 15.0 mm	0243 03	10 pieces
	Soft-PVC	With adjustable flaps
 15.0 mm	0243 12	10 pieces
	Silicone	With adjustable flaps
 15.0 mm	0243 13	10 pieces
	Silicone	With adjustable flaps

Silicone

Silicone

 The suitable pad arm No. 0299 02 is shown on page F 19.

Nose Pad Cushions



PAINEX Assortment of Sponge Cushions

To reduce the bridge width.

Self-adhesive, white.

1 strip = 4 pairs

Contents: 9 strips of 1.0 mm thickness
12 strips of 1.5 mm thickness
9 strips of 2.0 mm thickness

0739 00


Improves the comfort of
wearing plastic frames


PAINEX Sponge Cushions


Single thickness.

1 strip = 4 pairs

Contents: 12 strips

0739 10  1.0 mm

0739 15  1.5 mm

0739 20  2.0 mm





0.8 > 2.0 mm

Nose Pad Components

Asymmetric nose pad component adhering to plastic frames.

Can be used with e.g. Acetone No. 3173 00.

Contents: 6 pairs

0263 00  19 x 8 mm  0.8 > 2.0 mm



TIPS & TRICKS

SELF-ADHESIVE NOSE PAD CUSHION

One Cushion, 2 Options

Nose Pad Cushion Assortment
No. 0758 50
or separately:
Self-adhesive Nose Pad Cushion
No. 0758 01, 02, 03

5 5 minutes



This is how it works

Option 1: Cut off

1 CLEAN THE FRAME



2 REMOVE HALF OF THE FOIL



3 STICK ON



4 CUT OFF



5 DONE



Option 2: Fold back | Repeat step 1–3

4 REMOVE THE FOIL



5 FOLD BACK THE FLAP



6 DONE



Nose Pad Cushion

Self-adhesive **silicone foil**.

Width: 7 mm each

Contents: 10 pairs

0758 01 Size S  19 mm  2.0 mm


0758 02 Size M  19 mm  2.4 mm

0758 03 Size L  19 mm  2.7 mm



Nose Pad Cushion Assortment

Contents: 10 pairs each No. 0758 01; 0758 02 and 0758 03

0758 50  30 pairs





Due to deposits (cosmetics/skin oil) we recommend replacing after approx. 3 to 4 weeks.






Nose Pad Cushion



Self-adhesive **silicone foil**.

Contents: 20 pieces



0748 13  13 mm  0.7 mm

0748 15  15 mm  0.7 mm


0748 17  17 mm  0.7 mm

0748 19  19 mm  0.7 mm

0748 23  13 mm  1.0 mm

0748 25  15 mm  1.0 mm

0748 27  17 mm  1.0 mm

0748 29  19 mm  1.0 mm



Almost invisible

Nose Pad Cushion Assortment

Contents: 20 pieces each No. 0748 13; 0748 15; 0748 17 and 0748 19

0748 50  80 pieces

Nose Pad Cushion Assortment

Contents: 20 pieces each No. 0748 23; 0748 25; 0748 27 and 0748 29

0748 51  80 pieces





TIPS & TRICKS

NOSE PAD ARMS FOR PLASTIC FRAMES

Improve Comfort!

Mounting Set

No. 0304 50

or separately:

Nose Pad Arms, Beta-titanium

No. 0304 01, 03, 05, 06, 11, 15, 16, 21, 25, 26

No. 0305 01, 03, 05, 06, 11, 15, 16, 21, 25, 26

Mounting Tool

No. 0304 00

Spiral Drill, HSS

No. 2032 15

Plastic Pad

No. 0227 10, 0228 10

Pad Screws

No. 0896 00

Tool Holder

No. 2068 00

Steel Miller

No. 2240 41

Universal Pen

No. 2623 01



15 minutes

This is how it works

1 CUTTING



2 POLISHING



3 MARKING



4 DRILLING



5 CLAMPING



6 PUSHING



7 INSERTING THE NOSE PADS



8 DONE



Application videos can be found at www.youtube.com/user/BreitfeldSchliekert

Plastic frames for everyone

The high-quality side bar supports, made in Japan of beta titanium, improve the wearing comfort of a plastic frame that does not fit perfectly, it can be anatomically adapted at any time. Due to their graceful shape, as well as the various colour and size options, they are inconspicuous and enhance any plastic frame.



Beta Titanium

- Attaches through one point system
- One drill hole required
- Simply pushes in
- Matching drill: No. 2032 15



"Push-in" System

0304 . .

2 pairs

Size S 10 mm		Size L 12 mm		Size XL 16 mm	
Order No.	Colour	Order No.	Colour	Order No.	Colour
0304 21	Silver	0304 01	Silver	0304 11	Silver
0304 25	Black	0304 03	Brown	0304 15	Black
0304 26	Gold	0304 05	Black	0304 16	Gold
		0304 06	Gold		

"Screw-in" System

0305 . .

2 pairs

Size S 10 mm		Size L 12 mm		Size XL 16 mm	
Order No.	Colour	Order No.	Colour	Order No.	Colour
0305 21	Silver	0305 01	Silver	0305 11	Silver
0305 25	Black	0305 03	Brown	0305 15	Black
0305 26	Gold	0305 05	Black	0305 16	Gold
		0305 06	Gold		

Marking tool "APP"

The Accurate Point Positioner was developed to ensure precise and accurate drill point positioning for the plastic and beta titanium pad arms No. 0303 . ., 0304 . . and 0305 . .

With the new version of the APP you can now perfectly adjust the drilling points in horizontal and vertical direction.

0303 10



Mounting Tool for Beta Titanium Nose Pad Arms

- For easy fitting of titanium nose pad arms
- Comfortable handling
- Enables work with pinpoint accuracy

0304 00



Mounting Set Nose Pad Arms Beta Titanium

- **Contents:** Tool for nose pad arms, 16 pairs nose pad arms, required drill (No. 2032 15), matching nose pads (No. 0227 10 and 0228 10) and nose pad screws (No. 0896 00)
- In practical box

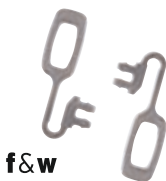
0304 50

105 x 23.5 x 178 mm



The matching screws No. 0896 00, 0896 00TL and 0896 20 (total length 4.0 mm; thread size 1.0 mm) are shown on page F 22.

Nose Pad Arms for Plastic Frames



f&w

Type/Use:
"System 3" and "System 3 Dash M"
Colour: Silver

0307 01

 5 pairs

Nose Pad Arm Bridges for Plastic Frames



- "Push-in" System
- Mounting through two parallel drilled holes with 1.0 mm diameter
- Distance between drilled holes: 12 mm
- Fixation through 2 pin connection
- Colour: Silver

0306 02

 2 pieces



- "Screw-in" System
- Mounting through two parallel drilled holes with 1.0 mm diameter
- Distance between drilled holes: 12 mm
- Fixation through 2 pin connection
- Colour: Silver

0306 01

 2 pieces



Nose Pad Arms for Metal Frames



Type/Use:
Universal application
Colour: Silver

0288 01

10 pieces



Type/Use:
Universal application
Colour: Gold

0288 02

10 pieces



Type/Use:
Universal application
Colour/Material: Titanium

0288 03

10 pieces



Type/Use:
Universal application
Colour: Silver

0289 01

10 pieces



Type/Use:
Universal application
Colour: Silver

0287 01

5 pairs



Type/Use:
Universal application
Colour: Gold

0287 02

5 pairs



Type/Use:
Universal application
Colour/Material: Titanium

0287 03

5 pairs



Type/Use:
Nose pads with adjustable flap
Colour: Gold

0299 02

5 pairs



The suitable nose pads are shown on page F 12,
No. 0243 02, 0243 03, 0243 12 and 0243 13.



Type/Use:
Pocket nose pads
Colour: Silver

0281 01

5 pairs



Type/Use:
"System 3" and "System 3 Dash M"
Colour: Silver

0276 01

10 pieces



The suitable nose pads "System 3" and "System 3 Dash M"
are shown on page F 7.



The B&S Screw Range:

- Extensive selection
- For all applications
- Easy to find. Simple to order



Ordering in 3 Steps

OPTION

A

Ascending thread size

F 22–F 32

1. Select the thread size (Option A)

2. Select the screws type

3. Select the colour

OPTION

B

Screws for special applications

F 33–F 44


1. Select your special screw (Option B)

2. Select the size


3. Select the colour

Icons makes your selection easy


Screws for:




Nose pads



Rim joints




Hinges




Rimless frames


Shapes:




Slotted screw




Phillips screw




Phillips/slotted combination



Star nut




Hexagon screw/nut




Torx screw


Measurements:




Screw securer




Thread size




Head diameter




Total length



Diameter



Inner diameter



Outer diameter



OPTION A



Thread Size – assorted

0.8–1.0 mm	F 22
1.1 mm	F 23
1.2 mm	F 23–F 24
1.3 mm	F 25
1.4 mm	F 25–F 29
1.5 mm	F 30–F 31
1.6 mm	F 31–F 32
1.7–1.8 mm	F 32

OPTION B



Special Screws

4-in-1 Screws	F 33–F 35
Rimless Frames Screws	F 36
Screws for Ray Ban Frames	F 37
Torx Screws	F 38
Screws for Plastic Hinges	F 39
Spring Hinge Screws	F 39–F 40
Spring Hinge Screws with blue Screw Securer	F 41
Hilco Logic® Screws	F 42
Screws with transparent Nylon Securer	F 43
Temple Screws	F 43
Screws with black Screw Securer	F 44
Screws with blue Tuflock Securer	F 44

And much more

Lens Testing Screws	F 32
Assortments	F 45–F 47
Nuts	F 48–F 49
Washers	F 50–F 51
Sleeves	F 52–F 53



Screws ascending Thread Size































































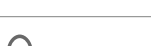








Thread Size 0.8 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				German Silver	Silver	3.70	1.30	0805 10	100 pieces	–



Thread Size 1.0 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	3.80	1.80	0865 01	100 pieces	–
				Steel	Gold	3.80	1.80	0865 10	100 pieces	–
				German Silver	Silver	4.00	1.20	0815 00	100 pieces	–
				German Silver	Silver	4.00	1.40	0896 00	100 pieces	–
				German Silver	Gold	4.00	1.40	0896 10	100 pieces	–
				German Silver	Gun	4.00	1.40	0896 20	100 pieces	–
				German Silver	Silver	4.00	1.40	0896 00TL	50 pieces	–
				Steel	Silver	4.45	1.40	0807 00	100 pieces	–
				Steel	Silver	4.50	1.80	0889 00	100 pieces	–
				Steel	Silver	5.80/2.80	1.40	0819 05	100 pieces	–
				Steel	Silver	5.80/2.80	1.40	0819 05TL	50 pieces	–
				Steel	Gold	5.80/2.80	1.40	0819 15	100 pieces	–
				Steel	Gold	5.80/2.80	1.40	0819 15TL	50 pieces	–
				Steel	Silver	12.80/2.80	1.40	0816 000	50 pieces	–
				Steel	Gold	12.80/2.80	1.40	0816 100	50 pieces	–
				Steel	Gun	12.80/2.80	1.40	0816 200	50 pieces	–

Screws ascending Thread Size



















































































Thread Size 1.1 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				German Silver	Silver	4.20	1.30	0803 00	100 pieces	–



Thread Size 1.2 mm







































		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	1.30	1.80	0801 00	100 pieces	–
				Steel	Silver	2.60	1.60	0860 40	100 pieces	–
				Steel	Silver	3.00	2.00	0886 03	100 pieces	–
				Steel	Gun for plastic hinges	3.00	2.30	0833 20	50 pieces	–
				Steel	Silver	3.20	1.60	0853 00	100 pieces	–
				Steel	Silver	3.40	1.60	0882 00	100 pieces	–
				Steel	Gold	3.40	1.60	0882 10	100 pieces	–
				Steel	Silver	3.50	2.00	0886 04	100 pieces	–
				Steel	Silver	3.90	2.00	0886 00	100 pieces	–
				Steel	Silver	4.00	1.40	0896 01	100 pieces	–
				Steel	Silver	4.00	2.00	0886 05	100 pieces	–
				Steel	Silver	4.40	2.00	0886 01	100 pieces	–
				Steel	Silver	4.70	1.60	0871 00	100 pieces	–
				German Silver	Silver	4.80	1.60	0818 00	100 pieces	–
				Steel	Silver	4.90	2.00	0886 02	100 pieces	–
				Steel	Silver	5.90/ 3.50	2.00	0819 03	100 pieces	–
				Steel	Silver	5.90/ 3.50	2.00	0819 03TL	50 pieces	–
				Steel	Gold	5.90/ 3.50	2.00	0819 13	100 pieces	–
				Steel	Gold	5.90/ 3.50	2.00	0819 13TL	50 pieces	–



Screws ascending Thread Size
















































































Thread Size 1.2 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Gun	5.90/ 3.50	2.00	0819 23	100 pieces	–
				Steel	Gun	5.90/ 3.50	2.00	0819 23TL	50 pieces	–
				Steel	Silver	7.00	2.00	0883 00	100 pieces	–
				Steel	Silver	7.00/ 4.00	2.00	0819 08	100 pieces	–
				Steel	Silver	7.50/ 4.50	2.00	0819 09	100 pieces	–
				Steel	Silver	10.00	2.40	0885 00	100 pieces	–
				Steel	Silver	10.70	2.50	0857 00	100 pieces	0822 01TL
				Steel	Silver	11.60	2.00	0888 00	25 pieces	–
				Steel	Gold	11.60	2.00	0888 10	25 pieces	–
				Steel	Black	11.60	2.00	0888 20	25 pieces	–
				German Silver	Silver	12.00	1.80	0831 00	100 pieces	0822 01TL
				Brass	Gold	12.00	1.80	0831 10	100 pieces	0822 02TL
				Brass	Gun	12.00	1.80	0831 20	100 pieces	0822 03
				German Silver	Silver	12.00	2.50	0841 01	100 pieces	0822 01TL
				German Silver	Gold	12.00	2.50	0841 11	100 pieces	0822 02TL
				Steel	Silver	12.60	2.20	0858 00	100 pieces	0831 02
				Steel	Gold	12.60	2.20	0858 10	100 pieces	0831 12
				Steel	Silver	14.80/ 4.80	1.80	0816 001	50 pieces	–
				Steel	Gold	14.80/ 4.80	1.80	0816 101	50 pieces	–
				Steel	Gun	14.80/ 4.80	1.80	0816 201	50 pieces	–
				German Silver	Silver	15.00	1.80	0843 00	100 pieces	0822 01TL
				Steel	Silver	15.50/ 5.50	1.80	0816 012	50 pieces	–

Screws ascending Thread Size















Thread Size 1.3 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	3.50	1.70	0880 00	100 pieces	–
				Steel	Gold	3.50	1.70	0880 10	100 pieces	–
				German Silver	Silver	5.30	1.70	0804 00	100 pieces	–
				German Silver	Gun	5.30	1.70	0804 20	100 pieces	–
				Steel	Silver	6.50/ 3.50	2.00	0819 06	100 pieces	–
				Steel	Silver	6.50/ 3.50	2.00	0819 06TL	50 pieces	–
				Steel	Gold	6.50/ 3.50	2.00	0819 16	100 pieces	–
				Steel	Gold	6.50/ 3.50	2.00	0819 16TL	50 pieces	–
				Steel	Silver	7.00	1.80	0861 00	100 pieces	–
				German Silver	Silver	8.00	2.80	0848 00	100 pieces	–
				Steel	Silver	11.50	1.80	0861 01	50 pieces	–
				Steel	Gold	11.50	1.80	0861 11	50 pieces	–
				Steel	Silver	11.60	2.00	0888 01	25 pieces	–
				Steel	Gold	11.60	2.00	0888 11	25 pieces	–
				Steel	Black	11.60	2.00	0888 21	25 pieces	–
				Steel	Silver	14.80/ 4.80	1.80	0816 002	50 pieces	–
				Steel	Gold	14.80/ 4.80	1.80	0816 102	50 pieces	–
				Steel	Gun	14.80/ 4.80	1.80	0816 202	50 pieces	–



Thread Size 1.4 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	2.50	2.20	0878 00	100 pieces	–
				Steel	Silver	2.70	2.00	0870 00	100 pieces	–



Screws ascending Thread Size








































































































Thread Size 1.4 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	2.80	1.80	0851 01	100 pieces	–
				Steel	Silver	3.00	2.00	0811 00	50 pieces	–
			 TX4	Steel	Silver	3.00	2.00	0887 03	100 pieces	–
				Steel	Silver	3.10	2.00	0874 00	100 pieces	–
				Steel	Silver	3.30	2.00	0869 01	100 pieces	–
				Steel	Silver	3.40	1.80	0851 02	100 pieces	–
				Steel	Silver	3.45	2.00	0854 00	100 pieces	–
				Steel	Silver	3.50	2.00	0811 01	50 pieces	–
			 TX4	Steel	Silver	3.50	2.00	0887 04	100 pieces	–
				Steel	Silver	3.60	2.00	0884 00	100 pieces	–
				Steel	Silver	3.70	2.00	0869 02	100 pieces	–
				Steel	Silver	3.90	2.00	0869 00	100 pieces	–
				Steel	Silver	3.90	1.80	0872 00	100 pieces	–
				Steel	Gold	3.90	1.80	0872 10	100 pieces	–
				Steel	Gun	3.90	1.80	0872 20	100 pieces	–
			 TX4	Steel	Silver	3.90	2.00	0887 00	100 pieces	–
				Steel	Silver	4.00	1.80	0851 03	100 pieces	–
				Steel	Silver	4.00	2.00	0876 00	100 pieces	–
				Steel	Silver	4.00	2.00	0811 02	50 pieces	–
			 TX4	Steel	Silver	4.00	2.00	0887 05	100 pieces	–
				Steel	Silver	4.10	1.80	0860 55	100 pieces	–
				German Silver	Silver	4.20	1.80	0814 00	200 pieces	–
				Steel	Silver	4.20	1.80	0876 01	100 pieces	–
				Steel	Silver	4.20	2.00	0869 03	100 pieces	–

Screws ascending Thread Size



Thread Size 1.4 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	4.30	1.80	0851 00	100 pieces	–
				Steel	Silver	4.30	2.00	0867 00	100 pieces	–
				Steel	Gold	4.30	2.00	0868 00	100 pieces	–
				Steel	Silver	4.40	1.80	0873 00	100 pieces	–
				Steel	Silver	4.40	2.00	0884 01	100 pieces	–
				Steel	Silver	4.40	2.00	0887 01	100 pieces	–
				Steel	Silver	4.50	2.00	0811 03	50 pieces	–
				Steel	Silver	4.70	2.00	0884 02	100 pieces	–
				German Silver	Silver	4.80	2.50	0821 00	100 pieces	–
				Steel	Silver	4.90	2.00	0887 02	100 pieces	–
				German Silver	Silver	5.00	1.80	0820 00	200 pieces	–
				Steel	Silver	5.20	1.80	0860 20	100 pieces	–
				German Silver	Silver	5.40	1.80	0852 00	100 pieces	–
				Steel	Silver	6.00	1.80	0860 58	100 pieces	–
				Steel	Silver	6.00	1.80	0860 58TL	50 pieces	–
				Steel	Silver	6.50	1.80	0860 30	100 pieces	–
				Steel	Silver	6.50	1.80	0860 30TL	50 pieces	–
				Steel	Silver	6.50	2.00	0813 00	100 pieces	–
				Steel	Silver	6.50/ 3.50	2.00	0819 00	100 pieces	–
				Steel	Silver	6.50/ 3.50	2.00	0819 00TL	50 pieces	–
				Steel	Silver	7.00/ 4.00	2.00	0819 01	100 pieces	–
				Steel	Silver	7.00/ 4.00	2.00	0819 01TL	50 pieces	–
				Steel	Silver	7.80/ 4.80	2.00	0819 02	100 pieces	–
				Steel	Gold	6.50/ 3.50	2.00	0819 10	100 pieces	–



Screws ascending Thread Size



Thread Size 1.4 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Gold	6.50/ 3.50	2.00	0819 10TL	50 pieces	–
				Steel	Gold	7.00/ 4.00	2.00	0819 11	100 pieces	–
				Steel	Gold	7.00/ 4.00	2.00	0819 11TL	50 pieces	–
				Steel	Gold	7.80/ 4.80	2.00	0819 12	100 pieces	–
				Steel	Gun	6.50/ 3.50	2.00	0819 20	100 pieces	–
				Steel	Gun	6.50/ 3.50	2.00	0819 20TL	50 pieces	–
				Steel for plastic hinges	Silver	7.80	2.00	0855 00	50 pieces	–
				German Silver	Silver	8.60	2.80	0828 10	100 pieces	–
				Steel	Silver	8.50/ 5.50	2.00	0819 010	100 pieces	–
				Steel	Silver	9.50/ 6.50	2.00	0819 011	100 pieces	–
				Steel	Silver	10.00	2.80	0885 01	100 pieces	–
				Steel	Silver	10.60/ 3.60	1.80	0817 00	100 pieces	–
				Steel	Gold	10.60/ 3.60	1.80	0817 10	100 pieces	–
				Steel	Gun	10.60/ 3.60	1.80	0817 20	100 pieces	–
				Steel	Silver	10.60	2.80	0835 00	100 pieces	0824 01TL
				Steel	Gold	10.60	2.80	0835 10	100 pieces	0824 02TL
				Steel for plastic hinges	Silver	10.80	2.00	0855 01	50 pieces	–
				German Silver	Silver	11.40	2.80	0824 11	100 pieces	0824 01TL
				German Silver	Gold	11.40	2.80	0824 14	100 pieces	0824 02TL
				Steel	Silver	11.50	1.80	0862 01	50 pieces	–
				Steel	Gold	11.50	1.80	0862 11	50 pieces	–
				Steel	Silver	11.60	2.00	0888 02	25 pieces	–
				Steel	Gold	11.60	2.00	0888 12	25 pieces	–
				Steel	Black	11.60	2.00	0888 22	25 pieces	–

Screws ascending Thread Size








































































































Thread Size 1.4 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				German Silver	Silver	12.00	2.50	0841 00	100 pieces	0824 01TL
				Brass	Gold	12.00	2.50	0841 10	100 pieces	0824 02TL
				German Silver	Gun	12.00	2.50	0841 20	100 pieces	0824 03
				Steel	Silver	12.60	2.50	0857 01	100 pieces	0824 01TL
				Steel	Silver	12.60	2.20	0858 01	100 pieces	0831 04
				Steel	Gold	12.60	2.20	0858 11	100 pieces	0831 14
				Steel	Silver	13.00/ 3.00	1.80	0816 003	50 pieces	-
				Steel	Gold	13.00/ 3.00	1.80	0816 103	50 pieces	-
				Steel	Gun	13.00/ 3.00	1.80	0816 203	50 pieces	-
				Steel	Silver	14.80/ 4.80	1.80	0816 004	50 pieces	-
				Steel	Gold	14.80/ 4.80	1.80	0816 104	50 pieces	-
				Steel	Gun	14.80/ 4.80	1.80	0816 204	50 pieces	-
				Steel	Silver	13.50/ 3.50	2.00	0816 007	50 pieces	-
				Steel	Gold	13.50/ 3.50	2.00	0816 107	50 pieces	-
				Steel	Gun	13.50/ 3.50	2.00	0816 207	50 pieces	-
				Steel	Silver	14.00/ 4.00	2.00	0816 008	50 pieces	-
				Steel	Gold	14.00/ 4.00	2.00	0816 108	50 pieces	-
				Steel	Gun	14.00/ 4.00	2.00	0816 208	50 pieces	-
				Steel	Silver	14.80/ 4.80	2.00	0816 009	50 pieces	-
				Steel	Gold	14.80/ 4.80	2.00	0816 109	50 pieces	-
				Steel	Gun	14.80/ 4.80	2.00	0816 209	50 pieces	-
				German Silver	Silver	15.00	1.80	0843 01	100 pieces	0824 01TL
				German Silver	Gold	15.00	1.80	0843 11	100 pieces	0824 02TL
				Steel	Silver	15.50/ 5.50	2.00	0816 013	50 pieces	-



Screws ascending Thread Size


























Thread Size 1.5 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				German Silver	Silver	5.00	1.80	0845 15	100 pieces	–
				Steel for plastic hinges	Silver	5.00	2.00	0855 04	50 pieces	–
				Steel	Silver	5.20	1.80	0842 00	100 pieces	–
				Steel	Silver	5.20	1.80	0842 00TL	50 pieces	–
				Steel	Gold	5.20	1.80	0842 10	100 pieces	–
				Steel	Gun	5.20	1.80	0842 20	100 pieces	–
				Steel	Silver	6.50/3.50	2.00	0819 07	100 pieces	–
				Steel	Silver	6.50/3.50	2.00	0819 07TL	50 pieces	–
				Steel	Gold	6.50/3.50	2.00	0819 17	100 pieces	–
				Steel	Gold	6.50/3.50	2.00	0819 17TL	50 pieces	–
				German Silver	Silver	10.00	2.80	0827 00	100 pieces	–
				Steel	Silver	10.00	2.80	0885 02	100 pieces	–
				Steel	Silver	11.50	1.80	0863 01	50 pieces	–
				Steel	Gold	11.50	1.80	0863 11	50 pieces	–
				Steel	Silver	11.60	2.00	0888 03	25 pieces	–
				Steel	Gold	11.60	2.00	0888 13	25 pieces	–
				Steel	Black	11.60	2.00	0888 23	25 pieces	–
				Steel	Silver	14.00/4.00	1.80	0816 005	50 pieces	–
				Steel	Gold	14.00/4.00	1.80	0816 105	50 pieces	–
				Steel	Gun	14.00/4.00	1.80	0816 205	50 pieces	–
				Steel	Silver	14.80/4.80	1.80	0816 006	50 pieces	–
				Steel	Gold	14.80/4.80	1.80	0816 106	50 pieces	–
				Steel	Gun	14.80/4.80	1.80	0816 206	50 pieces	–
				Steel	Silver	14.00/4.00	2.00	0816 010	50 pieces	–

Screws ascending Thread Size



























































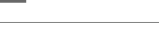








Thread Size 1.5 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Gold	14.00/ 4.00	2.00	0816 110	50 pieces	–
				Steel	Gun	14.00/ 4.00	2.00	0816 210	50 pieces	–
				Steel	Silver	14.80/ 4.80	2.00	0816 011	50 pieces	–
				Steel	Gold	14.80/ 4.80	2.00	0816 111	50 pieces	–
				Steel	Gun	14.80/ 4.80	2.00	0816 211	50 pieces	–



Thread Size 1.6 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	3.50	2.50	0811 04	50 pieces	–
				Steel for plastic hinges	Silver	4.00	2.50	0855 06	50 pieces	–
				Steel	Silver	4.00	2,50	0811 05	50 pieces	–
				Steel	Silver	4.60	2.50	0811 06	50 pieces	–
				Steel	Silver	5.20	1.80	0842 01	100 pieces	–
				Steel	Silver	5.20	1.80	0842 01TL	50 pieces	–
				Steel	Gold	5.20	1.80	0842 11	100 pieces	–
				Steel	Gun	5.20	1.80	0842 21	100 pieces	–
				Steel for plastic hinges	Silver	5.20	2.50	0855 07	50 pieces	–
				Steel for plastic hinges	Silver	6.00	2.50	0855 05	50 pieces	–
				Steel	Silver	6.50/ 3.50	2.00	0819 04	100 pieces	–
				Steel	Silver	6.50/ 3.50	2.00	0819 04TL	50 pieces	–
				Steel	Gold	6.50/ 3.50	2.00	0819 14	100 pieces	–
				Steel	Gold	6.50/ 3.50	2.00	0819 14TL	50 pieces	–
				Steel for plastic hinges	Silver	7.80	2.00	0855 02	50 pieces	–






















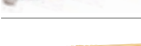









Screw securer



Screws ascending Thread Size


















Thread Size 1.6 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				German Silver	Silver	9.00	2.80	0837 10	100 pieces	–
				Steel	Silver	10.00	2.80	0885 03	100 pieces	–
				Steel for plastic hinges	Silver	10.80	2.00	0855 03	50 pieces	–
				Steel	Silver	11.60	2.00	0888 04	25 pieces	–
				Steel	Gold	11.60	2.00	0888 14	25 pieces	–
				Steel	Black	11.60	2.00	0888 24	25 pieces	–








Thread Size 1.7 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				German Silver	Silver	7.30	2.80	0834 00	100 pieces	–

Thread Size 1.8 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	11.60	2.00	0888 05	25 pieces	–
				Steel	Gold	11.60	2.00	0888 15	25 pieces	–
				Steel	Black	11.60	2.00	0888 25	25 pieces	–

Lens Testing Screws for Metal Frames

	Material	Colour			Order No.		
	German Silver	Silver	1.20	40.00	0881 12	1 piece	
	German Silver	Silver	1.30	40.00	0881 13	1 piece	

Used at the rim joint to check the size of the lens



TIPS & TRICKS

Complete 4 jobs in 1!

4-in-1-Screw

No. 0816..

Pro Screwdriver

No. 1664 14

Screw Holder Tweezer

No. 1651 00



approx. 3 minutes each

This is how it works

RIM JOINT

1 THREAD THE SCREW



2 TIGHTEN



3 SNAP OFF



HINGE

1 THREAD THE SCREW



2 TIGHTEN



3 SNAP OFF



4 DONE



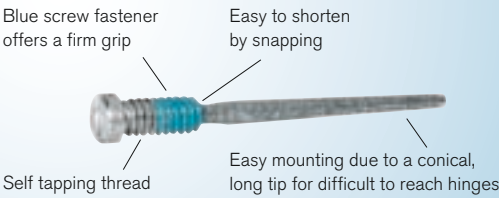
Special Screws

Complete 4 jobs in 1!

With the 4-in-1 screw fastening of sunken rim joints and spring hinges will be easier than ever before. The long conical shaped pin makes threading easier and can then be snapped off. Thanks to the self-cutting thread and screw securer no further action is needed.






















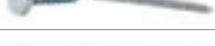
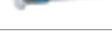




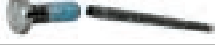





















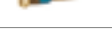


















4-in-1 Screws



		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.00	12.80/2.80	1.40	0816 000	50 pieces	-
			Steel	Gold	1.00	12.80/2.80	1.40	0816 100	50 pieces	-
			Steel	Gun	1.00	12.80/2.80	1.40	0816 200	50 pieces	-
			Steel	Silver	1.20	14.80/4.80	1.80	0816 001	50 pieces	-
			Steel	Gold	1.20	14.80/4.80	1.80	0816 101	50 pieces	-
			Steel	Gun	1.20	14.80/4.80	1.80	0816 201	50 pieces	-
			Steel	Silver	1.20	15.50/5.50	1.80	0816 012	50 pieces	-
			Steel	Silver	1.30	14.80/4.80	1.80	0816 002	50 pieces	-
			Steel	Gold	1.30	14.80/4.80	1.80	0816 102	50 pieces	-
			Steel	Gun	1.30	14.80/4.80	1.80	0816 202	50 pieces	-
			Steel	Silver	1.40	13.00/3.00	1.80	0816 003	50 pieces	-
			Steel	Gold	1.40	13.00/3.00	1.80	0816 103	50 pieces	-
			Steel	Gun	1.40	13.00/3.00	1.80	0816 203	50 pieces	-
			Steel	Silver	1.40	14.80/4.80	1.80	0816 004	50 pieces	-
			Steel	Gold	1.40	14.80/4.80	1.80	0816 104	50 pieces	-
			Steel	Gun	1.40	14.80/4.80	1.80	0816 204	50 pieces	-
			Steel	Silver	1.40	13.50/3.50	2.00	0816 007	50 pieces	-
			Steel	Gold	1.40	13.50/3.50	2.00	0816 107	50 pieces	-

Special Screws

4-in-1 Screws										
		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Gun	1.40	13.50/ 3.50	2.00	0816 207	50 pieces	–
			Steel	Silver	1.40	14.00/ 4.00	2.00	0816 008	50 pieces	–
			Steel	Gold	1.40	14.00/ 4.00	2.00	0816 108	50 pieces	–
			Steel	Gun	1.40	14.00/ 4.00	2.00	0816 208	50 pieces	–
			Steel	Silver	1.40	14.80/ 4.80	2.00	0816 009	50 pieces	–
			Steel	Gold	1.40	14.80/ 4.80	2.00	0816 109	50 pieces	–
			Steel	Gun	1.40	14.80/ 4.80	2.00	0816 209	50 pieces	–
			Steel	Silver	1.40	15.50/ 5.50	2.00	0816 013	50 pieces	–
			Steel	Silver	1.50	14.00/ 4.00	1.80	0816 005	50 pieces	–
			Steel	Gold	1.50	14.00/ 4.00	1.80	0816 105	50 pieces	–
			Steel	Gun	1.50	14.00/ 4.00	1.80	0816 205	50 pieces	–
			Steel	Silver	1.50	14.80/ 4.80	1.80	0816 006	50 pieces	–
			Steel	Gold	1.50	14.80/ 4.80	1.80	0816 106	50 pieces	–
			Steel	Gun	1.50	14.80/ 4.80	1.80	0816 206	50 pieces	–
			Steel	Silver	1.50	14.00/ 4.00	2.00	0816 010	50 pieces	–
			Steel	Gold	1.50	14.00/ 4.00	2.00	0816 110	50 pieces	–
			Steel	Gun	1.50	14.00/ 4.00	2.00	0816 210	50 pieces	–
			Steel	Silver	1.50	14.80/ 4.80	2.00	0816 011	50 pieces	–
			Steel	Gold	1.50	14.80/ 4.80	2.00	0816 111	50 pieces	–
			Steel	Gun	1.50	14.80/ 4.80	2.00	0816 211	50 pieces	–

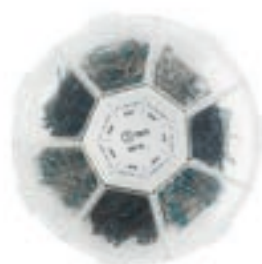


"Complete 4 jobs in 1!"
(see page F 33)

4-in-1 Screw Assortment

Contents: 7 different 4-in-1 screws (350 pieces)

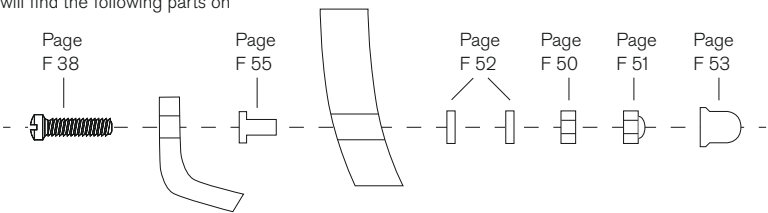
0816 050  43 g


































































Special Screws

Rimless Frame Screws

You will find the following parts on

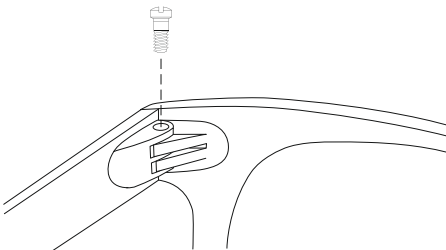






































		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.20	10.70	2.50	0857 00	100 pieces	0822 01TL
			German Silver	Silver	1.20	12.00	1.80	0831 00	100 pieces	0822 01TL
			Brass	Gold	1.20	12.00	1.80	0831 10	100 pieces	0822 02TL
			Brass	Gun	1.20	12.00	1.80	0831 20	100 pieces	0822 03
			German Silver	Silver	1.20	12.00	2.50	0841 01	100 pieces	0822 01TL
			German Silver	Gold	1.20	12.00	2.50	0841 11	100 pieces	0822 02TL
			Steel	Silver	1.20	12.60	2.20	0858 00	100 pieces	0831 02
			Steel	Gold	1.20	12.60	2.20	0858 10	100 pieces	0831 12
			German Silver	Silver	1.20	15.00	1.80	0843 00	100 pieces	0822 01TL
			Steel	Silver	1.40	10.60	2.80	0835 00	100 pieces	0824 01TL
			Steel	Gold	1.40	10.60	2.80	0835 10	100 pieces	0824 02TL
			German Silver	Silver	1.40	12.00	2.50	0841 00	100 pieces	0824 01TL
			Brass	Gold	1.40	12.00	2.50	0841 10	100 pieces	0824 02TL
			German Silver	Gun	1.40	12.00	2.50	0841 20	100 pieces	0824 03
			Steel	Silver	1.40	12.60	2.50	0857 01	100 pieces	0824 01TL
			Steel	Silver	1.40	12.60	2.20	0858 01	100 pieces	0831 04
			Steel	Gold	1.40	12.60	2.20	0858 11	100 pieces	0831 14
			German Silver	Silver	1.40	15.00	1.80	0843 01	100 pieces	0824 01TL
			German Silver	Gold	1.40	15.00	1.80	0843 11	100 pieces	0824 02TL

Special Screws

Screws for Ray Ban Frames

Made of steel,
available colours:
silver and gold



		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.20	3.40	1.60	0882 00	100 pieces	–
			Steel	Gold	1.20	3.40	1.60	0882 10	100 pieces	–
			Steel	Silver	1.20	7.00	2.00	0883 00	100 pieces	–
			Steel	Silver	1.30	3.50	1.70	0880 00	100 pieces	–
			Steel	Gold	1.30	3.50	1.70	0880 10	100 pieces	–
			Steel	Silver	1.40	3.60	2.00	0884 00	100 pieces	–
			Steel	Silver	1.40	4.40	2.00	0884 01	100 pieces	–
			Steel	Silver	1.40	4.70	2.00	0884 02	100 pieces	–
			Steel	Silver	1.60	4.00	2.50	0811 05	50 pieces	–
			Steel	Silver	1.60	4.60	2.50	0811 06	50 pieces	–




































Special Screws

























Torx Screws

Made of steel, available in silver colour and sizes TX2, TX3 and TX4



Torx Screws TX2										
		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.00	4.50	1.80	0889 00	100 pieces	–

Torx Screws TX3										
		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.20	3.00	2.00	0886 03	100 pieces	–
			Steel	Silver	1.20	3.50	2.00	0886 04	100 pieces	–
			Steel	Silver	1.20	3.90	2.00	0886 00	100 pieces	–
			Steel	Silver	1.20	4.00	2.00	0886 05	100 pieces	–
			Steel	Silver	1.20	4.40	2.00	0886 01	100 pieces	–
			Steel	Silver	1.20	4.90	2.00	0886 02	100 pieces	–

Torx Screws TX4										
		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.40	3.00	2.00	0887 03	100 pieces	–
			Steel	Silver	1.40	3.50	2.00	0887 04	100 pieces	–
			Steel	Silver	1.40	3.90	2.00	0887 00	100 pieces	–
			Steel	Silver	1.40	4.00	2.00	0887 05	100 pieces	–
			Steel	Silver	1.40	4.40	2.00	0887 01	100 pieces	–
			Steel	Silver	1.40	4.90	2.00	0887 02	100 pieces	–



You will find our Torx drivers on page C 9.

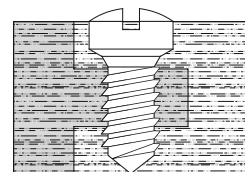
Special Screws


































Screws for Plastic Hinges

Made of steel, available colours: silver and gun



Coarse thread especially for plastic



		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Gun	1.20	3.00	2.30	0833 20	50 pieces	–
			Steel	Silver	1.40	7.80	2.00	0855 00	50 pieces	–
			Steel	Silver	1.40	10.80	2.00	0855 01	50 pieces	–
			Steel	Silver	1.50	5.00	2.00	0855 04	50 pieces	–
			Steel	Silver	1.60	4.00	2.50	0855 06	50 pieces	–
			Steel	Silver	1.60	5.20	2.50	0855 07	50 pieces	–
			Steel	Silver	1.60	6.00	2.50	0855 05	50 pieces	–
			Steel	Silver	1.60	7.80	2.00	0855 02	50 pieces	–
			Steel	Silver	1.60	10.80	2.00	0855 03	50 pieces	–

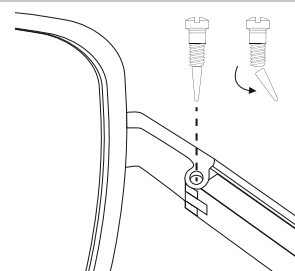
Spring Hinge Screws



















Made of steel, available colours: silver, gold and gun



Easy to shorten by snapping











































Simple to mount due to a conical tip



		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.00	5.80/ 2.80	1.40	0819 05	100 pieces	–
			Steel	Gold	1.00	5.80/ 2.80	1.40	0819 15	100 pieces	–
			Steel	Silver	1.20	5.90/ 3.50	2.00	0819 03	100 pieces	–
			Steel	Gold	1.20	5.90/ 3.50	2.00	0819 13	100 pieces	–



Special Screws

Spring Hinge Screws										
		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Gun	1.20	5.90/ 3.50	2.00	0819 23	100 pieces	–
			Steel	Silver	1.20	7.00/ 4.00	2.00	0819 08	100 pieces	–
			Steel	Silver	1.20	7.50/ 4.50	2.00	0819 09	100 pieces	–
			Steel	Silver	1.30	6.50/ 3.50	2.00	0819 06	100 pieces	–
			Steel	Gold	1.30	6.50/ 3.50	2.00	0819 16	100 pieces	–
			Steel	Silver	1.40	6.50/ 3.50	2.00	0819 00	100 pieces	–
			Steel	Silver	1.40	7.00/ 4.00	2.00	0819 01	100 pieces	–
			Steel	Silver	1.40	7.80/ 4.80	2.00	0819 02	100 pieces	–
			Steel	Gold	1.40	6.50/ 3.50	2.00	0819 10	100 pieces	–
			Steel	Gold	1.40	7.00/ 4.00	2.00	0819 11	100 pieces	–
			Steel	Gold	1.40	7.80/ 4.80	2.00	0819 12	100 pieces	–
			Steel	Gun	1.40	6.50/ 3.50	2.00	0819 20	100 pieces	–
			Steel	Silver	1.40	8.50/ 5.50	2.00	0819 010	100 pieces	–
			Steel	Silver	1.40	9.50/ 6.50	2.00	0819 011	100 pieces	–
			Steel	Silver	1.40	10.60/ 3.60	1.80	0817 00	100 pieces	–
			Steel	Gold	1.40	10.60/ 3.60	1.80	0817 10	100 pieces	–
			Steel	Gun	1.40	10.60/ 3.60/	1.80	0817 20	100 pieces	–
			Steel	Silver	1.50	6.50/ 3.50	2.00	0819 07	100 pieces	–
			Steel	Gold	1.50	6.50/ 3.50	2.00	0819 17	100 pieces	–
			Steel	Silver	1.60	6.50/ 3.50	2.00	0819 04	100 pieces	–
			Steel	Gold	1.60	6.50/ 3.50	2.00	0819 14	100 pieces	–

Special Screws

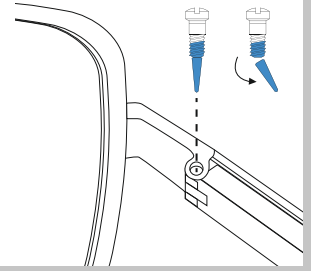
Spring Hinge Screws with blue Screw Securer























































Made of steel, available
colours: silver, gold
and gun

Simple to mount due
to a conical tip

Blue screw securer
offers a firm grip

Easy to shorten
by snapping



		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.00	5.80/ 2.80	1.40	0819 05TL	50 pieces	–
			Steel	Gold	1.00	5.80/ 2.80	1.40	0819 15TL	50 pieces	–
			Steel	Silver	1.20	5.90/ 3.50	2.00	0819 03TL	50 pieces	–
			Steel	Gold	1.20	5.90/ 3.50	2.00	0819 13TL	50 pieces	–
			Steel	Gun	1.20	5.90/ 3.50	2.00	0819 23TL	50 pieces	–
			Steel	Silver	1.30	6.50/ 3.50	2.00	0819 06TL	50 pieces	–
			Steel	Gold	1.30	6.50/ 3.50	2.00	0819 16TL	50 pieces	–
			Steel	Silver	1.40	6.50/ 3.50	2.00	0819 00TL	50 pieces	–
			Steel	Silver	1.40	7.00/ 4.00	2.00	0819 01TL	50 pieces	–
			Steel	Gold	1.40	6.50/ 3.50	2.00	0819 10TL	50 pieces	–
			Steel	Gold	1.40	7.00/ 4.00	2.00	0819 11TL	50 pieces	–
			Steel	Gun	1.40	6.50/ 3.50	2.00	0819 20TL	50 pieces	–
			Steel	Silver	1.50	6.50/ 3.50	2.00	0819 07TL	50 pieces	–
			Steel	Gold	1.50	6.50/ 3.50	2.00	0819 17TL	50 pieces	–
			Steel	Silver	1.60	6.50/ 3.50	2.00	0819 04TL	50 pieces	–
			Steel	Gold	1.60	6.50/ 3.50	2.00	0819 14TL	50 pieces	–



Special Screws

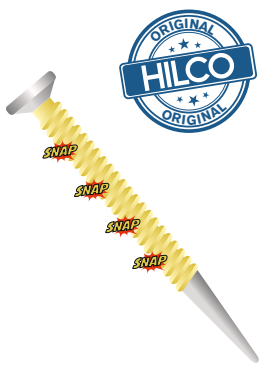
Hilco
Logic® Screws































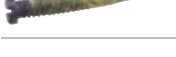


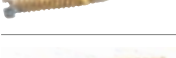


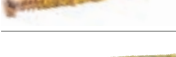





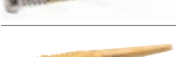

















In 1998 Hilco simplified eyewear repair with the Logic® nose pad.

10,000 customers and 10 million pads later, we've brought Logic® to the optical screw.

The Logic® screw system contains just 6 eyewire/hinge screws in various diameters that replace every other screw type in your inventory, including spring hinge and self-tapping.

- Reduces inventory by 80 %
- Breaks clean at the right length
- Perfect for Spring Hinges and Lens Insertion



		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.20	11.60	2.00	0888 00	25 pieces	—
			Steel	Gold	1.20	11.60	2.00	0888 10	25 pieces	—
			Steel	Black	1.20	11.60	2.00	0888 20	25 pieces	—
			Steel	Silver	1.30	11.60	2.00	0888 01	25 pieces	—
			Steel	Gold	1.30	11.60	2.00	0888 11	25 pieces	—
			Steel	Black	1.30	11.60	2.00	0888 21	25 pieces	—
			Steel	Silver	1.40	11.60	2.00	0888 02	25 pieces	—
			Steel	Gold	1.40	11.60	2.00	0888 12	25 pieces	—
			Steel	Black	1.40	11.60	2.00	0888 22	25 pieces	—
			Steel	Silver	1.50	11.60	2.00	0888 03	25 pieces	—
			Steel	Gold	1.50	11.60	2.00	0888 13	25 pieces	—
			Steel	Black	1.50	11.60	2.00	0888 23	25 pieces	—
			Steel	Silver	1.60	11.60	2.00	0888 04	25 pieces	—
			Steel	Gold	1.60	11.60	2.00	0888 14	25 pieces	—
			Steel	Black	1.60	11.60	2.00	0888 24	25 pieces	—
			Steel	Silver	1.80	11.60	2.00	0888 05	25 pieces	—
			Steel	Gold	1.80	11.60	2.00	0888 15	25 pieces	—
			Steel	Black	1.80	11.60	2.00	0888 25	25 pieces	—

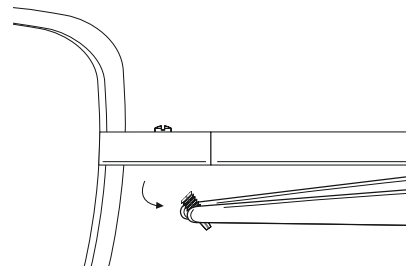
Special Screws

Screws with transparent Nylon Securer

Made of steel,
available colours:
silver and gold

Transparent
nylon inlay

Self tapping thread

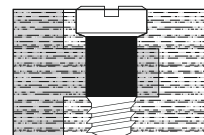





























		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.30	11.50	1.80	0861 01	50 pieces	–
			Steel	Gold	1.30	11.50	1.80	0861 11	50 pieces	–
			Steel	Silver	1.40	11.50	1.80	0862 01	50 pieces	–
			Steel	Gold	1.40	11.50	1.80	0862 11	50 pieces	–
			Steel	Silver	1.50	11.50	1.80	0863 01	50 pieces	–
			Steel	Gold	1.50	11.50	1.80	0863 11	50 pieces	–

Temple Screws

Made of steel,
available in silver

The black nylon sleeve ensures a smooth
movement of the temple



		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.40	3.00	2.00	0811 00	50 pieces	–
			Steel	Silver	1.40	3.50	2.00	0811 01	50 pieces	–
			Steel	Silver	1.40	4.00	2.00	0811 02	50 pieces	–
			Steel	Silver	1.40	4.50	2.00	0811 03	50 pieces	–
			Steel	Silver	1.60	3.50	2.50	0811 04	50 pieces	–
			Steel	Silver	1.60	4.00	2.50	0811 05	50 pieces	–
			Steel	Silver	1.60	4.60	2.50	0811 06	50 pieces	–



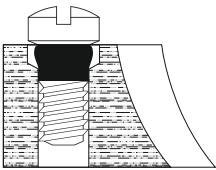
Special Screws































Screws with black Screw Securer

The black securing ring wedges to give a firm grip

Phillips/ slotted combination for a free screwdriver selection

Material: steel

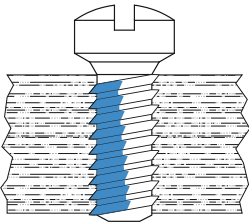




























		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.40	2.80	1.80	0851 01	100 pieces	–
			Steel	Silver	1.40	3.30	2.00	0869 01	100 pieces	–
			Steel	Silver	1.40	3.40	1.80	0851 02	100 pieces	–
			Steel	Silver	1.40	3.70	2.00	0869 02	100 pieces	–
			Steel	Silver	1.40	3.90	2.00	0869 00	100 pieces	–
			Steel	Silver	1.40	4.00	1.80	0851 03	100 pieces	–
			Steel	Silver	1.40	4.20	2.00	0869 03	100 pieces	–
			Steel	Silver	1.40	4.30	1.80	0851 00	100 pieces	–

Screws with blue Tuflock Securer

Available in silver

Reusable due to Tuflock coating on thread of screw



		Function	Screw head	Material	Colour				Order No.		Matching nut
				German Silver	Silver	1.00	4.00	1.40	0896 00TL	50 pieces	–
				Steel	Silver	1.40	6.00	1.80	0860 58TL	50 pieces	–
				Steel	Silver	1.40	6.50	1.80	0860 30TL	50 pieces	–
				Steel	Silver	1.50	5.20	1.80	0842 00TL	50 pieces	–
				Steel	Silver	1.60	5.20	1.80	0842 01TL	50 pieces	–

Screw Assortment

Contents: 28 different screws and nuts (2,800 pieces)

0890 16



Our small parts organiser boxes can be found on page G 12 and G 13.

You will receive all assortments with hinged boxes. We reserve the right to change the assortment.

Screw Assortment Gun-Coloured

Contents: 13 of the most used screws and nuts, altogether 1,300 pieces, 2 empty boxes

0890 17



Screw Assortment

In organiser box system No. 1457 20 (see catalogue page G 14).
Contents: 7 of the most used screws and nuts, altogether 700 pieces,
1 empty box

0890 10



Rimless Frames Assortment

Contents: 12 of the most used screws, nuts, washers and sleeves
(1,300 pieces)

0890 18



You will receive all assortments with hinged boxes. We reserve the right to change the assortment.

Washers Assortment


Contents: 8 of the most used washers (1,000 pieces)


0745 50



Swarovski Rhinestones Assortment

- Round, flat-backed or conical in three sizes:
S (1.7–1.9 mm), M (2.1–2.3 mm) und L (2.5–2.7 mm)
- Available in a Crystal (clear) or coloured assortment
- Coloured contents: Crystal (clear), rosé, light blue, red and light brown

 55 x 7 x 45 mm

 150 pieces

0900 50 Crystal (clear)

0900 51 Coloured



For the conical stones we recommend our double cone miller No. 2265 . . . on page C 36.































































Rhinestone Picker






















































The perfect tool for a precise placement of small parts, such as rhinestones, washers, screws, etc.

Clean the tip with water to renew the adhesion.

0900 61





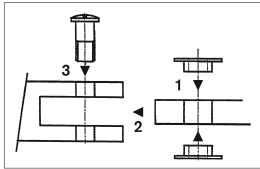
Nuts									
		Style	Material	Colour			Order No.		Matching nut driver
			German Silver	Silver	1.10	2.40	0866 00	100 pieces	1746 00
			German Silver	Gold	1.10	2.40	0866 10	100 pieces	1746 00
			German Silver	Gun	1.10	2.40	0866 20	100 pieces	1746 00
			German Silver	Silver	1.20	2.50	0822 01	100 pieces	1746 00
 			German Silver	Silver	1.20	2.50	0822 01TL	100 pieces	1746 00
			Brass	Gold	1.20	2.50	0822 02	100 pieces	1746 00
 			Brass	Gold	1.20	2.50	0822 02TL	100 pieces	1746 00
			German Silver	Gun	1.20	2.50	0822 03	100 pieces	1746 00
			German Silver	Silver	1.30	2.50	0823 01	100 pieces	1746 00
			German Silver	Gun	1.30	2.50	0823 03	100 pieces	1746 00
			German Silver	Silver	1.40	2.50	0824 01	100 pieces	1746 00
 			German Silver	Silver	1.40	2.50	0824 01TL	100 pieces	1746 00
			Brass	Gold	1.40	2.50	0824 02	100 pieces	1746 00
 			Brass	Gold	1.40	2.50	0824 02TL	100 pieces	1746 00
			German Silver	Gun	1.40	2.50	0824 03	100 pieces	1746 00
			German Silver	Silver	1.50	2.50	0830 01	100 pieces	1746 00
			German Silver	Silver	1.60	2.60	0833 01	100 pieces	1767 00

Dome Nuts									
		Style	Material	Colour			Order No.		Matching nut driver
			German Silver	Silver	1.20	2.20	0839 00	100 pieces	1749 00
			Brass	Gold	1.20	2.20	0839 10	100 pieces	1749 00
			German Silver	Gun	1.20	2.20	0839 20	100 pieces	1749 00
			Steel	Silver	1.20	2.40	0832 00	100 pieces	1767 00
			Steel	Gold	1.20	2.40	0832 10	100 pieces	1767 00
			Steel	Silver	1.20	2.40	0849 00	100 pieces	1767 00
			Steel	Gold	1.20	2.40	0849 10	100 pieces	1767 00
			German Silver	Silver	1.40	2.20	0840 00	100 pieces	1749 00
			Brass	Gold	1.40	2.20	0840 10	100 pieces	1749 00
			German Silver	Gun	1.40	2.20	0840 20	100 pieces	1749 00
			Steel	Silver	1.40	2.40	0838 00	100 pieces	1767 00
			Steel	Gold	1.40	2.40	0838 10	100 pieces	1767 00
			Steel	Silver	1.40	2.40	0850 00	100 pieces	1767 00
			Steel	Gold	1.40	2.40	0850 10	100 pieces	1767 00
			Steel	Silver	1.50	2.40	0829 00	100 pieces	1746 00
			Steel	Gold	1.50	2.40	0829 10	100 pieces	1746 00








































Special Washers for Titanium Temples

		Schematic side view	Material	Colour			Order No.	
			Steel	Silver	1.20	2.80	0745 07	100 pieces
			Steel	Silver	1.40	2.80	0745 08	100 pieces




















The washer prevents direct contact between the hinge and the temple rolls. Follow the 3 illustrated steps to assemble. First place the washers at the temple roll, then attach the temple to the hinge and then fasten the screw. The temples can then move freely and without friction.

Washers for Rimless Frames

		Material	Colour			Order No.	
		German Silver for screws with conical heads	Silver	1.20	2.80	0745 10	100 pieces
		Brass for screws with conical heads	Gold	1.20	2.80	0745 11	100 pieces
		German Silver	Silver	1.20	2.50	0745 20	100 pieces
		German Silver	Gold	1.20	2.50	0745 14	100 pieces
		German Silver	Gun	1.20	2.50	0745 30	100 pieces
		Plastic	Transparent	1.30	2.60	0745 00	150 pieces
		German Silver	Silver	1.30	2.50	0745 21	100 pieces
		German Silver	Gold	1.30	2.50	0745 15	100 pieces
		Plastic	Transparent	1.40	2.80	0745 02	150 pieces
		German Silver	Silver	1.40	2.50	0745 22	100 pieces
		German Silver	Gold	1.40	2.50	0745 16	100 pieces
		German Silver	Gun	1.40	2.80	0745 32	100 pieces
		German Silver for screws with conical heads	Silver	1.40	2.80	0745 09	100 pieces
		Brass for screws with conical heads	Gold	1.40	2.80	0745 12	100 pieces
		German Silver	Silver	1.50	2.50	0745 23	100 pieces
		German Silver	Gold	1.50	2.50	0745 17	100 pieces












Washers for Rimless Frames

		Material	Colour			Order No.	
		Plastic	Transparent	1.60	3.00	0745 13	150 pieces
		German Silver for reach nuts No. 0844 00	Silver	1.65	2.70	0745 24	100 pieces
		German Silver for reach nuts No. 0844 10	Gold	1.65	2.70	0745 18	100 pieces
		German Silver for reach nuts No. 0845 00	Silver	1.85	2.90	0745 25	100 pieces
		German Silver for reach nuts No. 0845 10	Gold	1.85	2.90	0745 19	100 pieces
		Plastic	Transparent	2.00	3.50	0745 33	150 pieces



You will find our washer assortment No. 0745 50 on page F 46.











Wedge-shaped Washers

		Schematic side view	Material	Colour			Order No.	
			Plastic	Transparent	1.20	2.80	0745 26	150 pieces
			Plastic	Transparent	1.40	2.80	0745 27	150 pieces

Reach Nuts

		Style	Material	Colour				Order No.		Matching nut driver
			German Silver	Silver	1.20	4.00	2.50	0844 00	100 pieces	1746 00
			Brass	Gold	1.20	4.00	2.50	0844 10	100 pieces	1746 00
			German Silver	Silver	1.40	4.00	2.50	0845 00	100 pieces	1746 00
			Brass	Gold	1.40	4.00	2.50	0845 10	100 pieces	1746 00

Caps for Rimless Frame Screws

		Material	Colour				Order No.	
		Plastic	Transparent	1.20	2.50	3.50	0771 22	100 pieces
		Plastic	Transparent	1.40	2.50	3.50	0771 23	100 pieces




























Premium Sleeves from frey & winkler

- High quality basic materials
- Product certified according to ISO 9001
- High dimensional accuracy
- Produced using the latest technology
- Maximum durability
- Colour stability
- No flashes



Sleeves for Rimless Frames								
		Material	Colour	Material quality			Order No.	
		Plastic	Transparent	Medium soft	0.80	1.30	0771 27	50 pieces
		Plastic	Transparent	Medium soft	0.80	1.40	0771 04	50 pieces
		Plastic	Transparent	Soft	0.80	1.40	0771 05	50 pieces
		Plastic	Transparent	Medium hard	0.80	1.40	0771 06	50 pieces
		Plastic	Transparent	Soft open version	0.80	1.40	0771 10	50 pieces
		Plastic	Transparent	Medium hard open version	0.80	1.40	0771 11	50 pieces
		Plastic	Transparent	Medium soft open version	0.80	1.40	0771 12	50 pieces
		Plastic	Transparent	Medium soft	0.80	1.50	0771 28	50 pieces
		Plastic	Transparent	Soft	1.00	1.80	0771 07	50 pieces
		Plastic	Transparent	Medium hard	1.00	1.80	0771 08	50 pieces
		Plastic	Transparent	Medium soft	1.00	1.80	0771 09	50 pieces

Sleeves for Rimless Frames									
		Schematic side view	Material	Colour	Material quality			Order No.	
			Plastic	Transparent		1.20	2.80	0771 13	100 pieces
			Plastic	Transparent		1.40	2.80	0771 14	100 pieces
			Plastic	Transparent	Hard	1.00	1.80	0771 21	50 pieces
			Plastic	Transparent	Hard	0.80	1.50	0771 24	50 pieces
			Plastic	Transparent	Hard	0.80	1.40	0771 25	50 pieces
			Plastic	Transparent	Hard	0.80	1.50	0771 26	50 pieces
			Plastic	Transparent	Soft	0.80	1.60	0771 30	50 pieces
			Plastic	Transparent	Hard	1.00	1.80	0771 29	50 pieces

Sleeves Assortment

Contents: 7 different sleeves for rimless frames (350 pieces)


0771 50

 28 g




Hinges


Explanation on hinges:




Hinge width




Hole distance




Dimensions
(width x depth or
width x height x depth)




Inclination




Milling between
rolls and
thickness of rolls




Thread size




Total length




Packing unit:
piece or pair




Hinge length




Picture enlarged
(200 %)




Head diameter



Hinge roll radius




Picture actual size
(100 %)























Pin diameter












- All dimensions in mm
- Changes of sizes reserved








 All double rolled hinges will be delivered with matching screws.

Solder Hinges

Middle part		Temple part							Order No.	
left	right		x	y						
			2.5	0.75–0.75	5.0	1.8	0°	1.4	0400 01	10 pieces
			2.5	0.75–0.75	5.0	1.8	0°	1.4	0400 02	10 pieces
			2.5	1.0	5.0	1.8	0°	1.4	0400 10	10 pieces
			3.0	0.9–0.9	5.0	1.8	0°	1.4	0401 01	10 pieces
			3.0	0.9–0.9	5.0	1.8	0°	1.4	0401 02	10 pieces
			3.0	1.2	5.0	1.8	0°	1.4	0401 10	10 pieces
			3.0	0.9–0.9	5.0	1.6	0°	1.4	0402 01	10 pieces
			3.0	0.9–0.9	5.0	1.6	0°	1.4	0402 02	10 pieces
			3.5	1.0–1.0	3.95	1.6	0°	1.4	0403 01	10 pieces
			3.5	1.0–1.0	3.95	1.6	0°	1.4	0403 02	10 pieces
			3.5	1.05–1.05	5.0	1.8	0°	1.4	0404 01	10 pieces
			3.5	1.05–1.05	5.0	1.8	0°	1.4	0404 02	10 pieces
			3.5	1.4	5.0	1.8	0°	1.4	0404 10	10 pieces

Hinges

Spring Hinge Sets							
Middle part left right		Temple part					Order No. 
			3.0	0.8–0.8	0°	1.2	0441 10 5 pairs
			3.0	0.8–0.8	0°	1.2	
			3.0	1.3	0°	–	
			3.3	0.9–0.9	6°	1.2	0442 10 5 pairs
			3.3	0.9–0.9	6°	1.2	
			3.0	1.3	6°	–	

Inner Spring for Flex Hinge						
	Material	Colour			Order No.	
	German Silver	Silver	0.8	1.4	0443 00	5 pieces
	German Silver	Silver	1.0	1.4	0443 01	5 pieces
	German Silver	Silver	1.2	1.4	0443 02	5 pieces
	German Silver	Silver	1.4	1.4	0443 03	5 pieces
























Hinges Assortment

Contents: Solder hinges 0401 .. (10 pieces each)
 rivet hinges 0406 .. (10 pieces each)
 rivets 0904 03 (100 pieces)
 (160 pieces)



















0400 50















Hinges

Rivet Hinges												
Middle part		Temple part							Order No.			
left	right	left	right									
				3.0	1.0	2.5	6°	1.4	0405 01	10 pieces		
					3.0	1.0	2.5	6°	1.4	0405 02	10 pieces	
						3.0	0.8–0.8	2.5	6°	1.4	0405 11	10 pieces
				3.0	0.8–0.8	2.5	6°	1.4	0405 12	10 pieces		
					3.0	1.2	2.5	0°	1.4	0406 00	10 pieces	
						3.0	0.9–0.9	2.5	0°	1.4	0406 11	10 pieces
				3.0	0.9–0.9	2.5	0°	1.4	0406 12	10 pieces		
				3.5	1.4	2.5	6°	1.4	0407 01	10 pieces		
					3.5	1.4	2.5	6°	1.4	0407 02	10 pieces	
						3.5	0.9–0.9	2.5	6°	1.4	0407 11	10 pieces
				3.5	0.9–0.9	2.5	6°	1.4	0407 12	10 pieces		
				6.0	0.8–0.8	2.5	6°	1.4	0408 01	10 pieces		
					6.0	0.8–0.8	2.5	6°	1.4	0408 02	10 pieces	
				6.0	0.8–0.8	2.5	6°	1.4	0408 03	10 pieces		
					6.0	0.8–0.8	2.5	6°	1.4	0408 04	10 pieces	
						6.0	1.1–0.7–1.1	2.5	6°	1.4	0408 11	10 pieces
				6.0	1.1–0.7–1.1	2.5	6°	1.4	0408 12	10 pieces		

Hinges

Hidden Hinges									
Middle part straight	Middle part left		Middle part right					Order No.	
				5.0	1.0	0°	1.4	0409 00	10 pieces
				5.0	1.2	0°	1.4	0412 00	10 pieces
				5.0	1.4	0°	1.4	0414 00	10 pieces
				4.4	1.3	0°	1.4	0416 00	10 pieces
				3.5	1.4	0°	1.4	0417 00	10 pieces
				3.5	1.6	0°	1.4	0418 00	10 pieces
				7.0	1.6	0°	1.4	0422 00	10 pieces
				2.8	0.8–0.8	0°	1.4	0423 01	10 pieces
				2.8	0.8–0.8	0°	1.4	0423 02	10 pieces
				3.3	0.9–0.9	0°	1.4	0424 01	10 pieces
				3.3	0.9–0.9	0°	1.4	0424 02	10 pieces
				4.5	1.0–1.0	0°	1.4	0425 01	10 pieces
				4.5	1.0–1.0	0°	1.4	0425 02	10 pieces

Rim Joints										
				Material	Colour	Application			Order No.	
			German Silver	Silver	Flat, for eyewire 1.80 to 2.50 mm. Has to be cut after soldering, with screws.	1.40	2.60 x 2.80 x 3.40	0898 01	10 pieces	
			German Silver	Silver	Flat, for eyewire 1.80 to 2.30 mm. Has to be cut after soldering, with screws.	1.40	2.40 x 4.50	0898 02	10 pieces	

Rivets								
		Material	Colour				Order No.	
		German Silver	Silver	25.00	1.70	0.70: 1.70	0906 00	200 pieces
		German Silver	Silver	10.00	1.80	1.20	0904 03	100 pieces



The B&S Temples and Temple Ends Range:

- Extensive selection
- For all applications
- Easy to find. Simple to order



Ordering in 3 Steps

1. Select form and material
2. Select the length
3. Select colour and diameter

Worth Knowing

f&w &  The Icons guarantees:





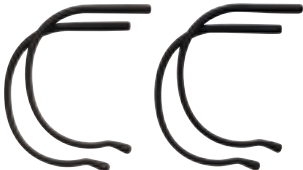




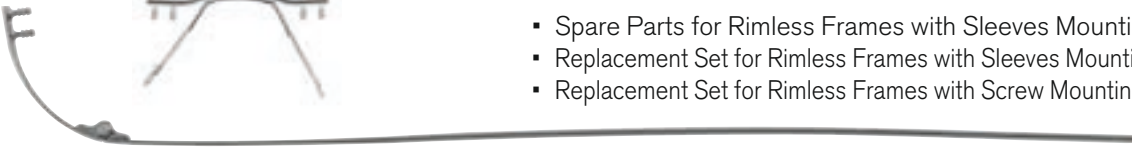
- High-quality basic materials
- Maximum durability
- Colour stability
- Highest precision



f&w Made in Germany Temple Ends offers you:

- Small cast points for better wear comfort
 - Rounded edges
 - High dimensional accuracy and high quality of the composite materials
 - Certified according to ISO 9001
-

Overview for Simple Selection

	Standard Temple End <ul style="list-style-type: none"> ▪ Length: 64 mm ▪ Length: 65 mm ▪ Length: 67 mm ▪ Length: 70 mm ▪ Length: 75 mm – To extend Temples 	F 60 F 60–F 61 F 62 F 62 F 62
	Silicone Temple End <ul style="list-style-type: none"> ▪ Length: 65 mm ▪ Length: 67 mm ▪ Length: 70 mm 	F 63 F 63 F 63
	Temple End with Square Opening <ul style="list-style-type: none"> ▪ Length: 61 mm ▪ Length: 63 mm – For Straight Temples ▪ Length: 63 mm – Flat, Square Opening ▪ Length: 70 mm – Flat Opening 	F 64 F 64 F 64 F 64
	Temple End for ic! berlin Frames <ul style="list-style-type: none"> ▪ Length: 85 ▪ Tube Sets 	F 65 F 65
	Sports Temple Ends <ul style="list-style-type: none"> ▪ Sports Temple Ends made of Silicone ▪ Sports Temple End ▪ MEGALOCK Temple End ▪ Non-slip Temple End 	F 66–F 69 F 70 F 70 F 70–F 71
	Windsor Rim <ul style="list-style-type: none"> ▪ Outer Profile ▪ W-Profile 	F 73 F 73
	Heat Shrink Tubes <ul style="list-style-type: none"> ▪ Heat Shrink Tubes ▪ Heat Shrink Tube Assortment 	F 74–F 75 F 75
	Long Temple Ends <ul style="list-style-type: none"> ▪ Length: 135 mm – Thin Type ▪ Length: 135 mm – Symmetrical Shape 	F 76 F 76
	Temples <ul style="list-style-type: none"> ▪ Standard Temples – Nickel Free ▪ Temples with RAL Joint (American Joint) ▪ Temples with Flex Hinges – Nickel Free ▪ Acetate Temples 	F 77 F 77 F 78–F 79 F 79–F 80
	Spare Parts for Rimless Frames <ul style="list-style-type: none"> ▪ Spare Parts for Rimless Frames with Sleeves Mounting ▪ Replacement Set for Rimless Frames with Sleeves Mounting ▪ Replacement Set for Rimless Frames with Screw Mounting 	F 81–F 82 F 81 F 83



Standard Temple End

Length: 64 mm

PP Temple End – Small Opening


Sealed end for high quality titanium frames.







	Transparent	f&w	Ø 1.0 mm	0726 27	10 pieces
	Anthracite transparent	f&w	Ø 1.0 mm	0726 28	10 pieces

Length: 65 mm

Temple End – Classic Shape

	Black	Ø 1.45 mm	0712 41	10 pieces
		Ø 1.6 mm	0712 61	10 pieces






Acetate Temple End – Thin Type

	Black	Ø 1.25 mm	0711 21	10 pieces
		Ø 1.45 mm	0711 41	10 pieces
		Ø 1.6 mm	0711 61	10 pieces
		Ø 1.7 mm	0711 71	10 pieces
		Ø 1.9 mm	0711 91	10 pieces
	Brown	Ø 1.25 mm	0711 22	10 pieces
		Ø 1.45 mm	0711 42	10 pieces
		Ø 1.6 mm	0711 62	10 pieces
		Ø 1.7 mm	0711 72	10 pieces
		Ø 1.9 mm	0711 92	10 pieces
	Havana	Ø 1.25 mm	0711 23	10 pieces
		Ø 1.45 mm	0711 43	10 pieces
		Ø 1.6 mm	0711 63	10 pieces
	Transparent	Ø 1.25 mm	0711 24	10 pieces
		Ø 1.45 mm	0711 44	10 pieces
		Ø 1.6 mm	0711 64	10 pieces




Standard Temple End

Length: 65 mm

Acetate Temple End – Symmetrical Shape

 <p>Black</p>	Ø 1.25 mm	0714 21	10 pieces
	Ø 1.45 mm	0714 41	10 pieces
	Ø 1.6 mm	0714 61	10 pieces
	Ø 1.7 mm	0714 71	10 pieces
 <p>Brown</p>	Ø 1.45 mm	0714 42	10 pieces
	Ø 1.6 mm	0714 62	10 pieces
	Ø 1.7 mm	0714 72	10 pieces
 <p>Havana</p>	Ø 1.45 mm	0714 43	10 pieces
	Ø 1.6 mm	0714 63	10 pieces
	Ø 1.7 mm	0714 73	10 pieces
 <p>Transparent</p>	Ø 1.45 mm	0714 44	10 pieces
	Ø 1.6 mm	0714 64	10 pieces
	Ø 1.7 mm	0714 74	10 pieces
 <p>Grey</p>	Ø 1.45 mm	0714 47	10 pieces
	Ø 1.6 mm	0714 67	10 pieces
	Ø 1.7 mm	0714 77	10 pieces




Temple End – Symmetrical Shape

 <p>Black</p>	Ø 1.2 mm	0709 21	10 pieces
	Ø 1.45 mm	0709 41	10 pieces
	Ø 1.6 mm	0709 61	10 pieces
 <p>Brown</p>	Ø 1.2 mm	0709 22	10 pieces
	Ø 1.45 mm	0709 42	10 pieces
	Ø 1.6 mm	0709 62	10 pieces
 <p>Havana</p>	Ø 1.2 mm	0709 23	10 pieces
	Ø 1.45 mm	0709 43	10 pieces
	Ø 1.6 mm	0709 63	10 pieces

Standard Temple End

Length: 67 mm

Acetate Temple End – Small Opening

	Black	Ø 1.0 mm	0713 01	10 pieces
	Brown	Ø 1.0 mm	0713 02	10 pieces
	Transparent	Ø 1.0 mm	0713 04	10 pieces

Length: 70 mm


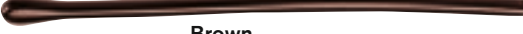

Temple End Hard

	Transparent	Ø 1.1 mm	0727 27	10 pieces
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Temple End – Classic Shape

	Transparent	Ø 1.5 mm	0794 08	10 pieces
	Black	Ø 1.5 mm	0794 10	10 pieces
	Dark brown	Ø 1.5 mm	0794 16	10 pieces



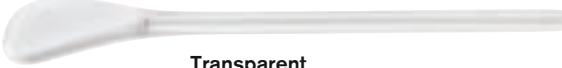
Temple End – Small Opening

	Black	Ø 0.9 mm	0754 01	10 pieces
	Brown	Ø 0.9 mm	0754 16	10 pieces
	Transparent	Ø 0.9 mm	0754 27	10 pieces

Length: 75 mm

Temple End – Classic Shape to extend Temples

To extend frame temples by at least 10 mm.




	Black	Ø 1.4 mm	0797 10	10 pieces
	Dark brown	Ø 1.4 mm	0797 16	10 pieces
	Transparent	Ø 1.4 mm	0797 27	10 pieces

Silicone Temple End

Length: 65 mm




Silicone Temple End – Small Opening

One end closed for metal temple 0.9 to 1.5 mm, hypo-allergenic, easy to fit, just moisten with liquid soap.

	Black	Ø 0.9 to 1.5 mm flexible	0756 01	10 pieces
	Brown	Ø 0.9 to 1.5 mm flexible	0756 16	10 pieces
	Transparent	Ø 0.9 to 1.5 mm flexible	0756 27	10 pieces

Length: 67 mm

Silicone Temple End – Small Opening

	Black	Ø 0.9 to 1.1 mm flexible	0716 01	10 pieces
	Brown	Ø 0.9 to 1.1 mm flexible	0716 02	10 pieces
	Transparent	Ø 0.9 to 1.1 mm flexible	0716 04	10 pieces

Length: 70 mm

Silicone Temple End






	Black	 Ø 1.0 mm	0795 11	10 pieces
		 Ø 1.4 mm	0795 01	10 pieces
	Dark brown	 Ø 1.0 mm	0795 17	10 pieces
		 Ø 1.4 mm	0795 07	10 pieces



Temple End with Square Opening







Length: 61 mm

Silicone Temple End

	 1.5 x 1.0 mm	0732 01	10 pieces
Black			
	 1.5 x 1.0 mm	0732 02	10 pieces
Brown			
	 1.5 x 1.0 mm	0732 04	10 pieces
Transparent			

Length: 63 mm

Silicone Temple End – For Straight Temples

		 2.6 x 1.5 mm	0715 01	10 pieces
Black				
		 2.6 x 1.5 mm	0715 02	10 pieces
Brown				





Temple End – Flat, Square Opening

	 4.0 x 1.3 mm	0789 00	10 pieces
Black			

Length: 70 mm

Temple End – Flat Opening

For thin metal temples.

	 2.5 x 1.3 mm	0757 00	10 pieces
Black			
	 2.5 x 1.3 mm	0757 01	10 pieces
Brown			



Length: 85 mm

ic! berlin Temple Tip

Material: Thermoplastic elastomer



Black

2.8 x 1.0 mm

0782 02

2 pairs



Grey

2.8 x 1.0 mm

0782 03

2 pairs

ic! berlin Tube Set Classic

- Length nose tubes: 19 mm
- Length temple tubes: 88 mm
- Temple diameter: 6 mm
- Color: Transparent
- Material: Silicone

0780 01

5 pieces

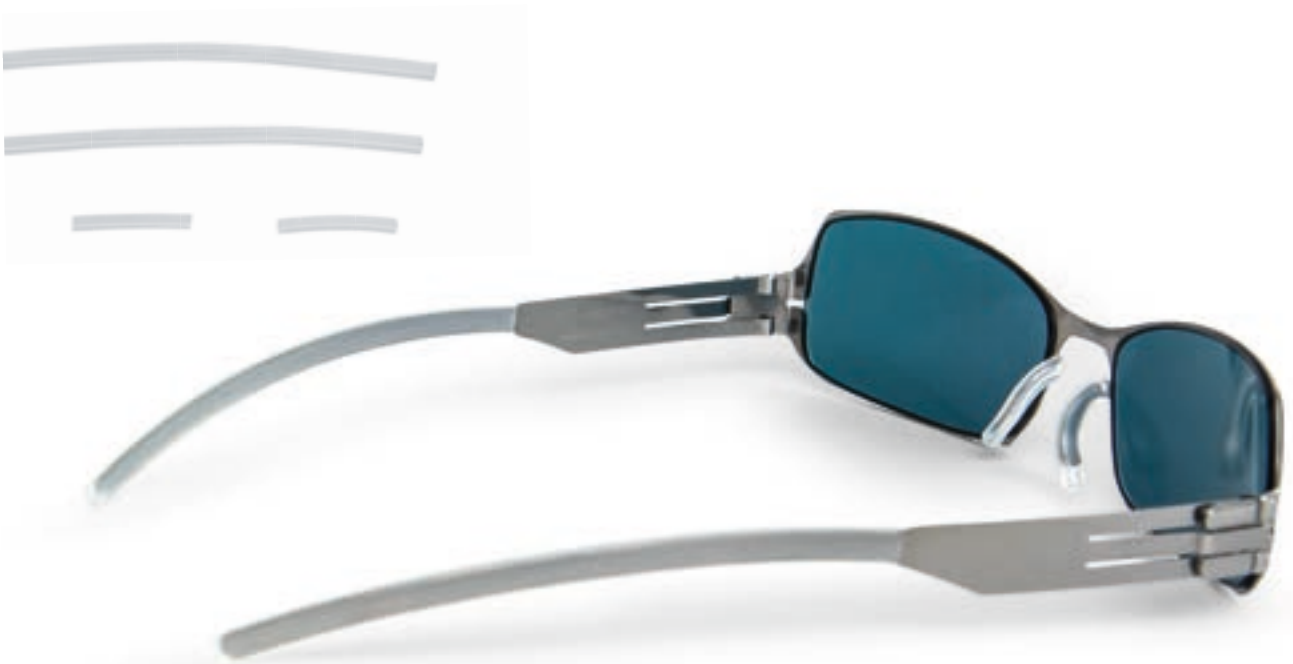


ic! berlin Tube Set Large

- Length nose tubes: 13 mm
- Length temple tubes: 94 mm
- Temple diameter: 10 mm
- Colour: Transparent
- Material: Silicone

0780 13

5 pieces





TIPS & TRICKS

EASY MOUNTING OF SPORT TEMPLE ENDS

Nothing Slips!

- Sport Temple Ends**
e.g. No. 0735 . .
- Universal Pen**
No.2623 01
- Double Joint Front Cutter**
No. 1579 79 N
- Precision File**
No. 1868 00
- Frame Heater**
No. 2871 01

5 approx. 5 minutes



This is how it works

Preparations for all sport temple tips

1 MARKING



2 CUTTING



3 CUTTING NOTCHES



Applying the sport temple ends No. 0735 . ., 0736 . ., 0717 . ., 0718 . ., 0728 . . and 0749 . . **with heating procedure**

4 HEATING



5 PUSHING



6 COOLING



Applying the sport temple ends No. 0731 . . **with cold procedure**

4 COLD PUSHING



5 DONE



OPTIONAL: PRESSING



TIP 1: If the temple is thinner than 1.3 mm use a vice to flatten and widen the end.
TIP 2: Sport temple ends on plastic temples? Expose the metal inlay! Cut off 1 cm only of the plastic on the temple and detach it.



Application videos can be found at www.youtube.com/user/BreitfeldSchliekert



Sports Temple Ends made of Silicone

For supplementary application on metal temples and inserts of plastic temples.

Assembling range: approx. 1.3 to 1.4 mm

Ø inner: 1.3 mm
 Ø outer children: 3.5 mm
 Ø outer adults: 4.2 mm

0749 . . 1 pair

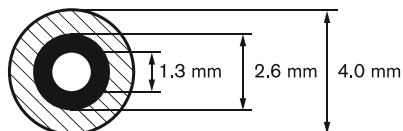
0731 . . 1 pair

Children: Length 80 mm		Adults: Length 95 mm	
Order No.	Colour	Order No.	Colour
0749 01	Black	0731 01	Black
0749 02	Grey	0731 16	Dark brown
0749 03	Petrol		
0749 04	Purple		
0749 05	Red		
0749 06	Pink		
0749 07	Green		
0749 10	Yellow		
0749 11	Orange		
0749 12	Light blue		
0749 16	Dark brown		
0749 21	Blue		

Children:

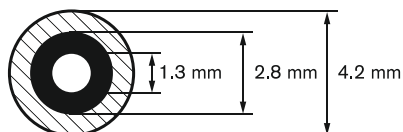
Improved version – fully covered by silicone.
 Polyamid inlay at the end and beginning isn't visible.

Thickness of silicone coating: 0.6 mm



Adults:

Thickness of silicone coating: 0.7 mm



Plastic



Silicone

Silicone Temple End Assortment

In snap lid boxes.

Contents: 2 pairs each No. 0749 06 and 0749 21 and 1 pair each No. 0749 01; 0749 03; 0749 04; 0749 05; 0749 07; 0749 10; 0749 11; 0749 12 and 0749 16 plus No. 0731 01 and 0731 16
 We reserve the right to change the assortment.

0749 55 15 pairs

Silicone Temple End Replacement Set

0749 50 15 pairs







Sports Temple Ends made of Silicone

For supplementary application on metal temples and inserts of plastic temples.

Assembling range: approx. 1.0 to 1.1 mm

Ø inner: 0.9 mm
Ø outer: 3.4 mm

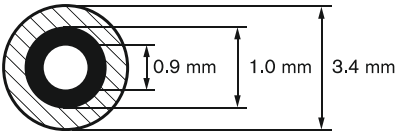
- 0717 ..
0718 ..
-  1 pair
 1 pair

Children: Length 75 mm		Adults: Length 90 mm	
Order No.	Colour	Order No.	Colour
0717 01	Black	0718 01	Black
0717 03	Blue	0718 03	Blue
0717 05	Red	0718 16	Brown
0717 07	Green	0718 19	Bordeaux
0717 19	Bordeaux		



"Easy Mounting of Sport Temple Ends"
(see page F 66)

Thickness of silicone coating: 0.8 mm,
optimal protection, optimal padding



 Plastic

 Silicone

Silicone Temple End Assortment

In snap lid boxes.

Contents: 1 pair each No. 0717 01; 0717 03; 0717 05; 0717 07 and 0717 19 plus No. 0718 01; 0718 03; 0718 16 and 0718 19
We reserve the right to change the assortment.

- 0717 55
-  9 pairs



Silicone Temple End Replacement Set

- 0717 50
-  9 pairs



B&S Quality temple ends are reassuringly well-engineered.
They have no rough spots and the especially thick cushion ensures comfortable wearing.



Sports Temple Ends made of Silicone

For supplementary application on metal temples and inserts of plastic temples.

Assembling range: approx. 1.4 to 1.5 mm

Ø inner: 1.3 mm

Ø outer: 3.8 mm

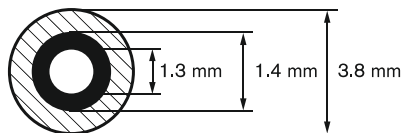
0735 . .  1 pair

0736 . .  1 pair



"Easy Mounting of Sport Temple Ends"
(see page F 66)

Thickness of silicone coating: 0.8 mm,
optimal protection, optimal padding



 Plastic

 Silicone

Children: Length 75 mm

Adults: Length 90 mm

Order No.	Colour	Order No.	Colour
0735 01	Black	0736 01	Black
0735 02	Grey	0736 02	Grey
0735 03	Navy	0736 03	Navy
0735 04	Lilac	0736 05	Red
0735 05	Red	0736 16	Brown
0735 07	Green	0736 19	Bordeaux
0735 12	Light blue		
0735 16	Brown		
0735 19	Bordeaux		

Silicone Temple End Assortment

In snap lid boxes..

Contents: 2 pairs each No. 0735 01; 0735 03; 0735 05; 0735 07,
0735 12 and 0735 19 plus 3 pairs each No. 0736 01;
0736 02; 0736 03 and 0736 16

We reserve the right to change the assortment.

0735 70  24 pairs

Silicone Temple End Replacement Set

0735 65  24 pairs



Sports Temple Ends for Adults

For supplementary application on metal temples and inserts of plastic temples.
Assembling range: approx. 1.4 to 1.5 mm
Ø inner: 1.3 mm
Ø outer: 3.0 mm
Length: 90 mm

0728 01 Black  1 pair



"Easy Mounting of Sport Temple Ends"
(see page F 66)



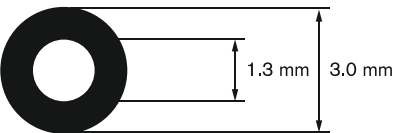
Please note our PlastiDip – the multipurpose rubber coating
on page E 23.



Please also note our heat shrink tubes on page F 75.



without silicone coating





 Plastic

MEGALOCK Temple End

Silicone, can be used with plastic and metal temples, firm hold.

Ø inner: 5.9 x 2.7 mm

8903 0 .  10 pairs
8903 01 Black
8903 02 Transparent


8903 5 .  50 pairs
8903 51 Black
8903 52 Transparent




Non-slip Temple End

Similar as No. 8903 . ., but in large pack.


Ø inner: 5.9 x 2.7 mm

0729 1 .  20 pieces
0729 10 Transparent
0729 11 Black

0729 . .  100 pieces
0729 00 Transparent
0729 01 Black

Ø inner: 2.8 x 1.8 mm

0729 1 .  20 pieces
0729 12* Transparent
0729 13* Black

0729 . .  100 pieces
0729 02* Transparent
0729 03* Black



* Extra small hole
for thin temples



Non-slip Temple Ends for Small Children

Material: Thermoplastic elastomer

Ø-Inner: 5.5 x 3.0 mm


0720 0 .  20 pieces

0720 01 Black

0720 02 Blue

0720 03 Pink

0720 50 Assortment

 60 pieces (20 pieces per colour)



Non-slip Temple Ends for Children

Silicone, can be used with plastic and metal temples, firm hold.

Suitable for our **Milo & Me** correction frames.

Ø inner: 5.9 x 2.7 mm

85000 . .  5 pairs

Order No.	Colour	Order No.	Colour
85000 00	Black	85000 15	Yellow green
85000 01	Dark blue	85000 16	Denim light blue
85000 02	Blue	85000 17	Light grey blue
85000 03	Middle blue	85000 18	Light grey
85000 04	Light blue	85000 19	Light brown
85000 05	Light turquoise	85000 20	Light green
85000 06	Dark green	85000 21	Light grey green
85000 07	Apple green	85000 22	Light sage
85000 08	Blackberry	85000 23	Light blackberry
85000 09	Red	85000 24	Mauve
85000 10	Lilac	85000 25	Peach
85000 11	Pink	85000 26	Orange
85000 12	Dark aquamarine	85000 27	White
85000 14	Olive green	85000 28	Glacial grey





Windsor Rim

The Windsor Rim is placed on the outer side of the rim and can be glued if required.

Material: Acetate

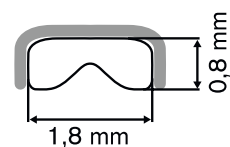
Ø inner: 1.8 x 0.8 mm

0776 . .  2 pieces


0776 00 Chestnut

0776 01 Havana

0776 02 Havana dark brown



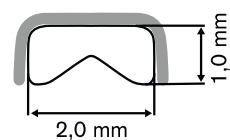
Ø inner: 2.0 x 1.0 mm

0777 . .  2 pieces

0777 00 Chestnut

0777 01 Havana

0777 02 Havana dark brown



Windsor Rim W-Profile

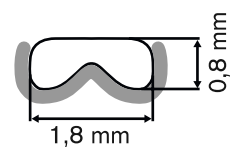
The Windsor Rim is placed into the groove of the rim and can be glued if required.

Material: Acetate

Ø outer: 1.8 x 0.8 mm

Colour: Havana

0751 01  2 pieces



Our matching Windsor rim plier 1580 00N on page B 29 simplifies the adjustment to bridge and end piece.





TIPS & TRICKS

HEAT SHRINK TUBES

Discreet Protection for Temples and Others

Heat Shrink Tube Assortment

No. 0786 50

Small Scissors

No. 1614 00

OPTOSONIC Cleaning Device

No. 2977 00

Frame Heater OPTIMONSUN

No. 2866 . .



approx. 3 minutes



This is how it works

1 CLEANING



2 BENDING



3 REMOVING



4 SELECTING



5 SHORTEN




6 SHRINKAGE



Heat Shrink Tubes

For a more comfortable fit, hypo-allergenic, high transparency.
Material: PE

0786 . .  3 x 1 m

Order No.	Ø inner	Ø after shrinking
0786 03	1.5 mm	approx. 0.75 mm
0786 05	3.0 mm	approx. 1.50 mm
0786 08	5.0 mm	approx. 2.50 mm
0786 10	7.0 mm	approx. 3.50 mm

Heat Shrink Tube Assortment

Practical assortment box with 4 different shrinking tube diameters:
6 x 18 cm with diameter 1.5 mm and 7.0 mm
8 x 18 cm with diameter 3.0 mm and 5.0 mm
Material: PE


0786 50



Heat Shrink Tubes

Shrinking temperature: 120 °C

Ø inner: 3.2 mm Ø after shrinking: 1.5 to 1.6 mm

0784 . .  3 x 1 m


0784 50	White	0784 55	Black
0784 51	Transparent	0784 56	Grey
0784 52	Red	0784 57	Green
0784 53	Blue	0784 59	Brown
0784 54	Yellow		



Heat Shrink Tubes

Shrinking temperature: 160 to 170 °C

Ø inner: 1.6 mm Ø after shrinking: 0.8 mm

0785 5 .  3 x 1 m

0785 51 Transparent **0785 55** Black

Heat Shrink Tube Assortment


Same as No. 0784 . ., but selected colours.

0784 33  10 pieces of 1 m

Heat Shrink Tube Temple End Assortment

Length: 80 mm, 1 end closed.
Colour: Black
Shrinking temperature: 150 °C

Ø inner: 3.0 mm Ø after shrinking: 1.5 mm

0734 01  10 pairs



Heat Shrink Tubes – High transparency

For all metal and plastic temples, hypo-allergenic.
Flat width: 8.0 mm

Ø inner: 5.1 mm Ø after shrinking: approx. 2.8 mm



0787 08  3 x 1 m






Long Temple Ends

Length: 135 mm

Acetate Temple End – Thin Type

Black	 1.0 mm	0707 01	10 pieces
	 1.2 mm	0707 21	10 pieces

Acetate Temple End – Symmetrical Shape

Black		Ø 1.2 mm	0708 21	10 pieces
		Ø 1.45 mm	0708 41	10 pieces
Brown		Ø 1.2 mm	0708 22	10 pieces
		Ø 1.45 mm	0708 42	10 pieces
Havana		Ø 1.2 mm	0708 23	10 pieces
		Ø 1.45 mm	0708 43	10 pieces

Temple End Assortment


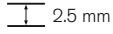

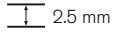

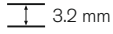

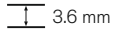


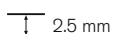

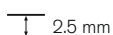

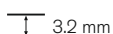




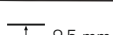

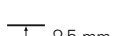

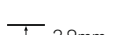

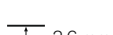


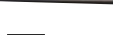







Contents: 10 high-quality, modern temple ends
in practical snap-lid boxes
We reserve the right to change the assortment.

0790 01

 100 pieces







































Standard Temples – Nickel Free – Length 140 mm

	Gold	 2.5 mm	 0.8 mm	1038 00	1 pair
		 2.5 mm	 1.0 mm	1043 00	1 pair
		 3.2 mm	 1.2 mm	1045 00	1 pair
		 3.6 mm	 1.4 mm	1046 00	1 pair
	Silver	 2.5 mm	 0.8 mm	1038 01	1 pair
		 2.5 mm	 1.0 mm	1043 01	1 pair
		 3.2 mm	 1.2 mm	1045 01	1 pair
		 3.6 mm	 1.4 mm	1046 01	1 pair
	Black	 2.5 mm	 0.8 mm	1038 02	1 pair
		 2.5 mm	 1.0 mm	1043 02	1 pair
		 3.2 mm	 1.2 mm	1045 02	1 pair
		 3.6 mm	 1.4 mm	1046 02	1 pair
	Gun	 2.5 mm	 0.8 mm	1038 03	1 pair
		 2.5 mm	 1.0 mm	1043 03	1 pair
		 3.2 mm	 1.2 mm	1045 03	1 pair
		 3.6 mm	 1.4 mm	1046 03	1 pair

Temples with RAL Joint (American Joint) – Length 145 mm


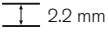

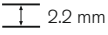

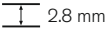


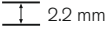

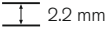

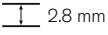


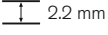

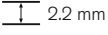

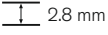


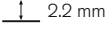

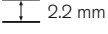

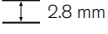

	Silver	 1.3 mm	 0.95 mm	1054 11	1 pair
	Gold			1054 12	1 pair
	Black			1054 13	1 pair

Temples with Flex Hinges – Nickel Free – Length 140 mm





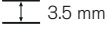


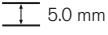

Gold		 3.3 mm	 0.8 mm	1039 00	1 pair
		 3.3 mm	 1.0 mm	1040 00	1 pair
		 3.5 mm	 1.2 mm	1041 00	1 pair
		 3.5 mm	 1.4 mm	1042 00	1 pair
Silver		 3.3 mm	 0.8 mm	1039 01	1 pair
		 3.3 mm	 1.0 mm	1040 01	1 pair
		 3.5 mm	 1.2 mm	1041 01	1 pair
		 3.5 mm	 1.4 mm	1042 01	1 pair
Black		 3.3 mm	 0.8 mm	1039 02	1 pair
		 3.3 mm	 1.0 mm	1040 02	1 pair
		 3.5 mm	 1.2 mm	1041 02	1 pair
		 3.5 mm	 1.4 mm	1042 02	1 pair
Gun		 3.3 mm	 0.8 mm	1039 03	1 pair
		 3.3 mm	 1.0 mm	1040 03	1 pair
		 3.5 mm	 1.2 mm	1041 03	1 pair
		 3.5 mm	 1.4 mm	1042 03	1 pair



Temples with Flex Hinges – Nickel Free – Length 140 mm

		 2.2 mm	 0.8 mm	1027 00	1 pair
	Gold	 2.2 mm	 1.0 mm	1028 00	1 pair
		 2.8 mm	 1.2 mm	1029 00	1 pair
	Silver	 2.2 mm	 0.8 mm	1027 01	1 pair
		 2.2 mm	 1.0 mm	1028 01	1 pair
		 2.8 mm	 1.2 mm	1029 01	1 pair
	Black	 2.2 mm	 0.8 mm	1027 02	1 pair
		 2.2 mm	 1.0 mm	1028 02	1 pair
		 2.8 mm	 1.2 mm	1029 02	1 pair
	Gun	 2.2 mm	 0.8 mm	1027 03	1 pair
		 2.2 mm	 1.0 mm	1028 03	1 pair
		 2.8 mm	 1.2 mm	1029 03	1 pair



Acetate Temples – Length 140 mm

	Black	 3.0 mm	 1.0 mm	1047 00	1 pair
	Dark havana			1047 02	1 pair
	Black	 3.5 mm	 1.0 mm	1048 00	1 pair
	Dark havana			1048 02	1 pair
	Black	 5.0 mm	 1.2 mm	1049 00	1 pair
	Dark havana			1049 02	1 pair



Acetate Temples – Length 140 mm





Black	 6.3 mm	 1.2 mm	1050 00	1 pair
Transparent			1050 01	1 pair
Dark havana			1050 02	1 pair
Light havana			1050 03	1 pair





Black	 9.0 mm	 1.2 mm	1051 00	1 pair
Transparent			1051 01	1 pair
Dark havana			1051 02	1 pair
Light havana			1051 03	1 pair

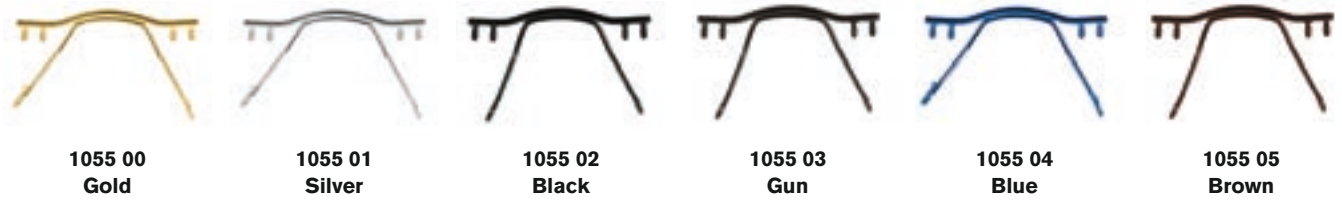


Black	 10.0 mm	 1.4 mm	1052 00	1 pair
Transparent			1052 01	1 pair
Dark havana			1052 02	1 pair
Light havana			1052 03	1 pair

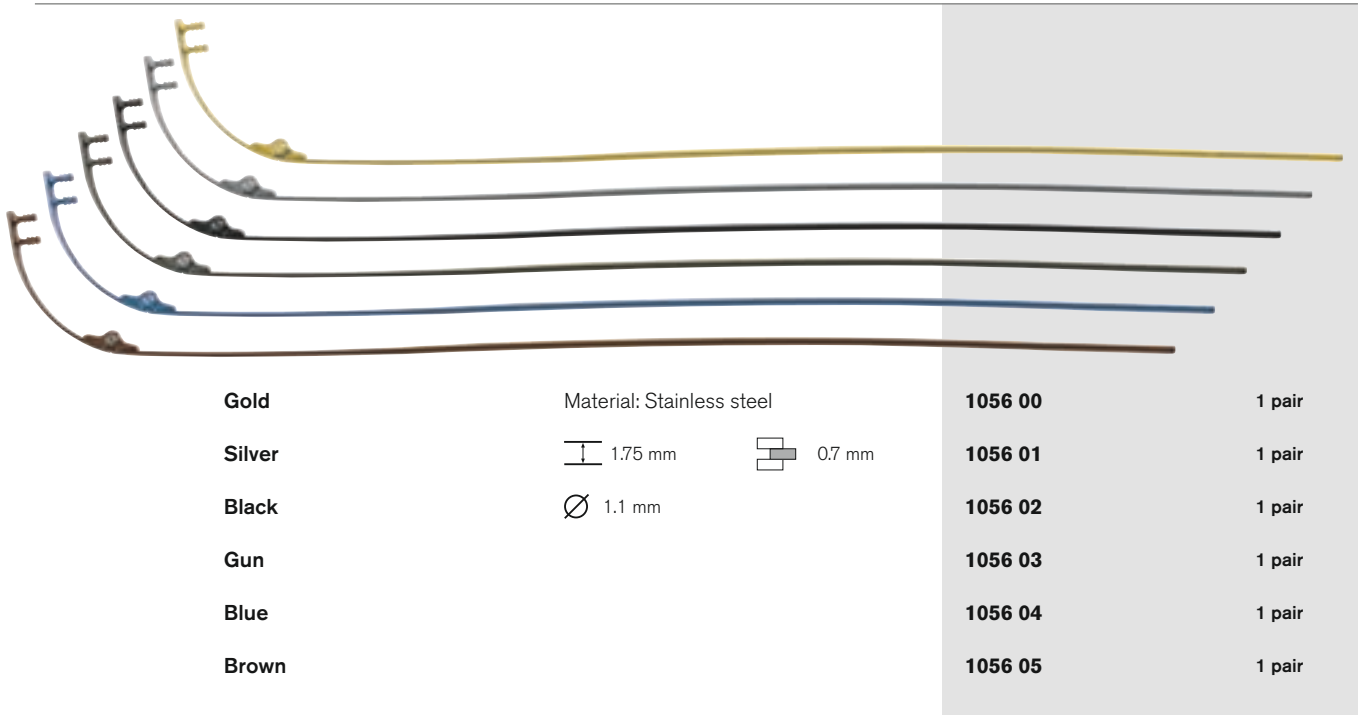
Bridge for Rimless Frames with Sleeves Mounting

- Material: Stainless steel
- For sleeves with an inner diameter of 0.8 mm

1055 ..  29 mm  approx. 17 mm



Spare Temple and Front Hinge for Rimless Frames with Sleeves Mounting – Length 140 mm







Replacement Set Temple and Front Hinge for Rimless Frames with Sleeves Mounting

- Material: Stainless steel
- For sleeves with an inner diameter of 0.8 mm
- Including: 2 temple tips (No. 0727 27), 2 nose pads (No. 0271 11) and 6 sleeves (No. 0771 05)

1058 ..

1058 00 Gold
1058 01 Silver
1058 02 Black
1058 03 Gun
1058 04 Blue
1058 05 Brown

Temple with hinge

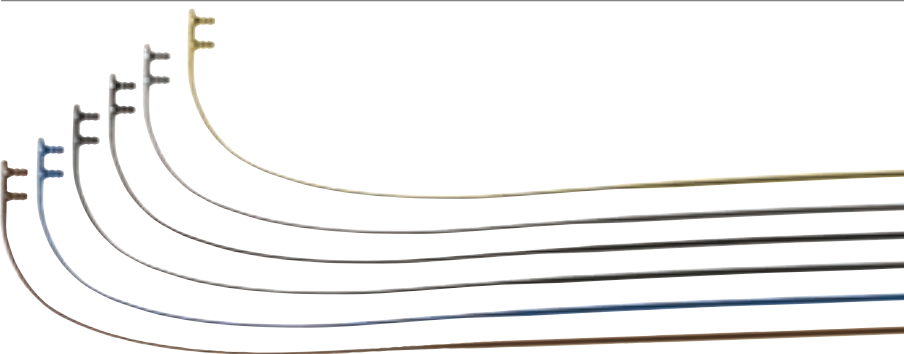
 1.75 mm  0.7 mm  1.1 mm  140 mm


Bridge

 29 mm  approx. 17 mm



Hingeless Temple for Rimless Frames with Sleeves Mounting – Length 140 mm




Gold	Material: Stainless steel 	1057 00	1 pair
Silver		1057 01	1 pair
Black		1057 02	1 pair
Gun		1057 03	1 pair
Blue		1057 04	1 pair
Brown		1057 05	1 pair






Replacement Set with Hingeless Temple for Rimless Frames with Sleeves Mounting

- Material: Stainless steel
- For sleeves with an inner diameter of 0.8 mm
- Including: 2 temple tips (No. 0713 01), 2 nose pads (No. 0271 11) and 6 sleeves (No. 0771 05)

1059 ..

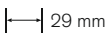

- | | |
|---------|--------|
| 1059 00 | Gold |
| 1059 01 | Silver |
| 1059 02 | Black |
| 1059 03 | Gun |
| 1059 04 | Blue |
| 1059 05 | Brown |



Hingeless temple	Bridge
 1.6 mm  1.0 mm  140 mm	 29 mm  approx. 17 mm

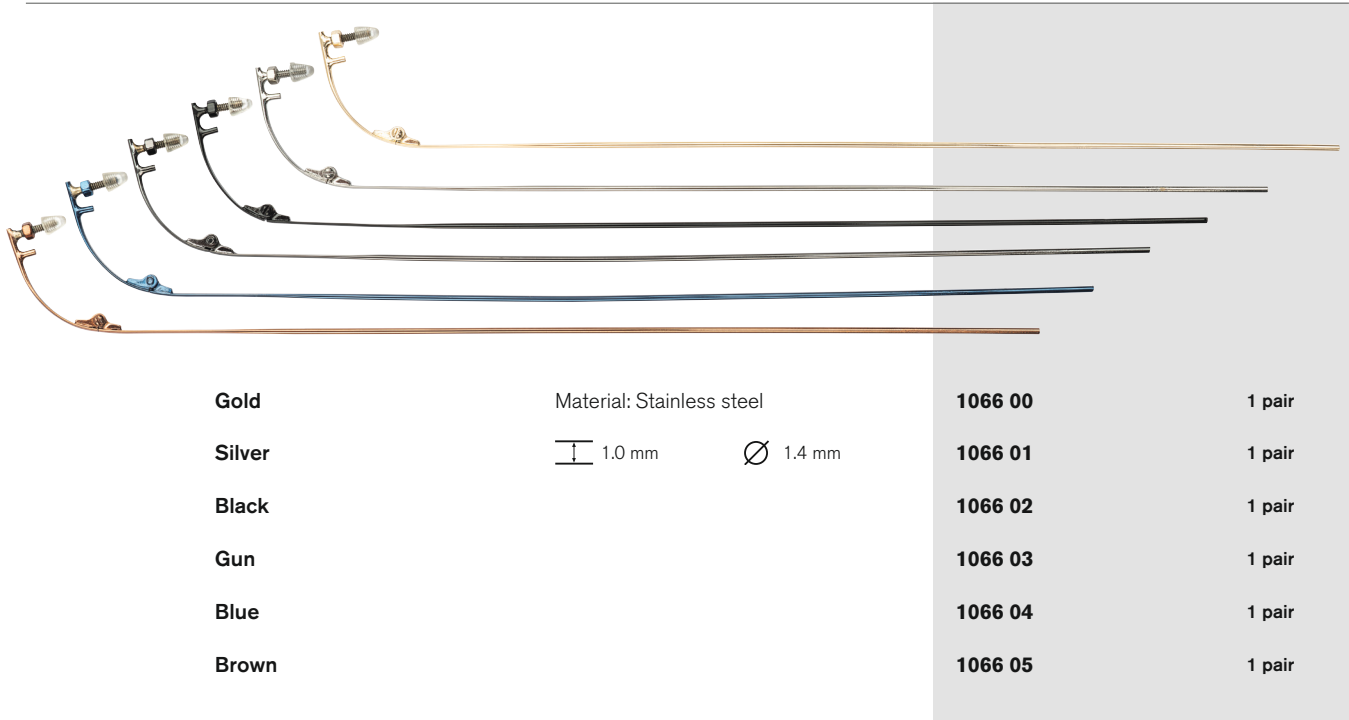
Spare Bridge for Rimless Frames with Screw Mounting

- Material: Stainless steel
- For screw mounting with a diameter of 1.4 mm

1065 . .  29 mm  approx. 18 mm




Spare Temples for Rimless Frames with Screw Mounting – Length 145 mm



TENAX Strips

- As interlining to be stuck into the frame groove
- Length: 50 mm, width: 3 mm

0733 01

 0.2 mm



 2 sheets of 36 strips



Lens Washer (Liner) – Self-adhesive

- As interlining to be stuck into the frame groove
- Width: 1.7 mm
- Colour: Transparent

0733 00



 0.1 mm  16 m



Lens Washer (Liner) – Acetate

- Colour: Transparent

0743 10



 1.2 mm  approx. 3 m





Lens Washer – CYREX

- Handmade frames insert with V-bevel for optimum use
- Colour: Transparent



0743 30  1.4 mm  3.5 m

0743 35  1.4 mm  12 x 3.5 m





You will find our glass adhesive (hypo-tube cement) No. 3177 00 on page E 13.

Lens Washer (Liner) – PVC



- Colour: Transparent



0750 00  1.6 mm  6 m

0750 10  1.6 mm  10 x 6 m




0752 00  1.2 mm  6 m




0752 10  1.2 mm  10 x 6 m

Lens Ring

High tensile strength (> 300 %) and resistant to brittleness.



- Material: Silicone
- Colour: Transparent

1371 00  26 mm  0.85 mm  10 pieces

1371 10  27 mm  0.5 mm  10 pieces



Fitting Strip

1368 00  5.0 mm  10 m




Nylon Thread

Ø 0.5 mm  20 cm

1370 00 Opaque  100 pieces



Nylon Thread – Transparent

1370 02 Ø 0.5 mm  20 m



Nylon Set, 5 Spools


Contents: 8-profile 0.51 and 0.55 mm,
T-profile 1.3 mm,
nylon thread 0.50 and 0.60 mm


1369 55


Nylon Thread

▪ Colour: Transparent

1369 2 .

1369 20 Ø 0.40 mm  20 m

1369 21 Ø 0.50 mm  20 m

1369 23 Ø 0.60 mm  20 m



Nylon Liner 8-Profile

▪ For metal frames
▪ Colour: Transparent

1369 0 .

1369 00  0.51 mm  10 m


1369 01  0.55 mm  10 m

Nylon Liner T-Profile

▪ For plastic and metal frames
▪ Colour: Transparent

1369 1 .

1369 10  1.3 mm  5 m

1369 11  2.0 mm  5 m

Nylon Liner 8-Profile


▪ For metal frames

1367 00  0.55 mm  2 m



You will find our nylon liner tool No. 1365 00 and our nylon thread hook No. 1719 00 on page C 26 and C 27.

Cement Strips – Acetate



0742 00  0.36 mm  100 pieces





Acetate Sheets

▪ Colour: Light water

 130 x 80 mm


0744 00  0.5 mm  3 pieces

0744 10  1.0 mm  3 pieces



Acetate Sheets



A complete frame can be made out of this material. The set includes metal injected temples and 2 hidden hinges. We reserve the right to change the colours.

0744 20  150 x 8 x 65 mm



Acetate Material

To make practice pieces in various styles.

0744 . .  150 x 6 x 65 mm  2 pieces

one-layered

- | | | | |
|---------|--------|---------|-------------|
| 0744 31 | Havana | 0744 33 | Blue |
| 0744 32 | Black | 0744 34 | Transparent |



two-layered

- | | |
|---------|-----------------------|
| 0744 50 | Black/Red |
| 0744 51 | Dark blue/Transparent |



triple-layered

- | | |
|---------|------------------------------|
| 0744 60 | Red/White/Smokey grey |
| 0744 61 | Brown/White/Transparent blue |



Eye Lid Lifter

For soldering or screwing.

0295 00



Eye Wire

Half round, smooth.

1361 02



 1 m



Soldering Set, Complete Frame

To assemble one complete metal frame with double bridge and golf temples. Eyewires are curved and shaped. We reserve the right to make changes to the composition.

1353 00



Soldering Set, Frame Front

Contents: Eyewires, nose bridge, nose pad arms, nose pads, hinges, frame bridge

Eyewires are curved and shaped. We reserve the right to make changes to the composition.

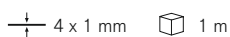
1354 03



Flat Wire

- For solder training
- Material: German silver

1362 01



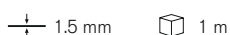
 1 m



Round Wire

- For solder training
- Material: German silver

1363 01



 1 m





ORGANISING AIDS

for the effective treatment plan




- G 2 Presentation Trays
- G 3 Job Bags
- G 5 Price Tags
- G 6 Job Trays
- G 10 Small Parts Magazines and Hinged Boxes
- G 14 Cosmetic Mirrors



Presentation Tray

- For the attractive presentation of your products e.g. frames, cases and accessories
- Brushed, stable plastic tray with anti-slip inlay made of soft polymer
- Usable area: 247 x 208 mm
- Contents not included

 300 x 221 x 21 mm

1433 . .

1433 10 Black/Light grey

1433 11 Black/Dark grey

1433 12 Black/Bordeaux



Presentation Box

- For 4 frames
- Made out of aluminium with transparent cover for a quick overview
- Contents not included

 200 x 160 x 55 mm



0143 00



Job Bags

- Job bags made of long lasting, semitransparent PP material
- The foldable sides of high-quality Oxford nylon can be stretched up to 4 cm

DIN A5

 155 x 215 x 40 mm  25 pieces



1434 0 .

1434 00 Green

1434 01 Blue

1434 02 Red

DIN A6

 125 x 165 x 40 mm  25 pieces

1434 1 .

1434 10 Green

1434 11 Blue

1434 12 Red



Job Bags for Contact Lenses

- PVC material with Velcro fastener
- Suitable for up to 2 daily or 4 monthly contact lens packages
- Dimensions job bag: 215 x 160 mm
- Dimensions CL packaging: 160 x 110 x 40 mm

 20 pieces

1431 10



Job Bag with Zipper

- Suitable for DIN A5 worksheets
- Contents visible due to transparent PE material
- Stable and flexible at the same time
- Easy zipped opening
- For improved organization in the workshop because frame, lenses and file card are in one bag
- Perfect transport solution for external glazing



 175 x 230 mm  20 pieces

1436 00

PVC Bag opticover

- Suitable for DIN A5 worksheets
- Contents visible due to transparent PE material
- Stable and flexible at the same time
- Easy to open
- Rounded corners
- Frames, lenses and worksheet in one bag



 157 x 218 mm

1442 00  20 pieces

1442 10  100 pieces

Foam Inserts for Drawer

For Ophthalmic Frames, Foam Insert Cuts to Size

- Outer measurements (W x H x D): 197 x 3.4 x 100 cm
- Inner measurements (H x D): 25/20 x 44 mm

1430 10 Dark grey



For Sunglasses, Foam Insert Cuts to Size


- Outer measurements (W x H x D): 197 x 4 x 100 cm
- Inner measurements (H x D): 32/20 x 60 mm

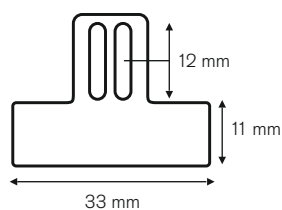

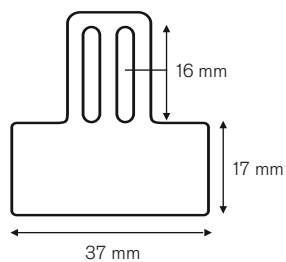
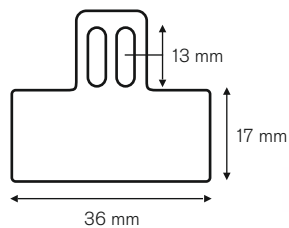
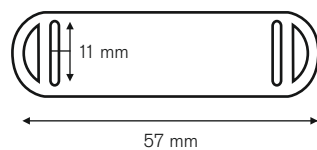
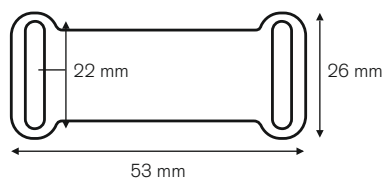
1430 11 Dark grey



Price Tags

- Price tags for almost all frame models
- To slide onto the temple
- To be used with:
 1. Lens marking pen (clean with spirit)
 2. Labels No. 0081 00

stable
 500 pieces

0080 01

flexible
 200 pieces each

0083 00

0083 10

0083 40

0083 60


Self-adhesive Labels

- Suitable for all B & S price tags
- White paper

 65 x 10 mm, divisible in two equal parts

 264 pieces

0081 00


That Fits.

These B & S job trays are produced in Europe using CNC controlled high-tech injection moulding machines. This production technology contributes to a high degree of precision fitting and processing quality. Due to high demand we have now added to the proven standard size an extra high version for sports frames and sunglasses with high curvatures and also their cases.

Job Trays – Large Size

- Flexible and unbreakable ABS plastic
- Both trays fit together
- With label pocket and grip tab
- Both trays are combinable

Coloured


- Inner size (w x h x d): 166 x 45 x 230 mm

Transparent – Extra High – 65 mm


- For high curved frames
- Inner size (w x h x d): 166 x 65 x 230 mm



 170 x 47 x 255 mm

 10 pieces with labels

 170 x 67 x 255 mm

 10 pieces with labels

1454 . .

1454 30 Transparent

1454 31 Light blue

1454 32 Red

1454 33 Grey

1452 30

Transparent

Job Tray Labels


- 1-sided foil coating (rewritable)


 10 pieces

0077 00 For No. 1452 30 and 1454 . .

Silicone Inlay

- For job trays No. 1452 .. and 1454 ..
- Material: Thermoplastic Elastomer
- With separate divisions for lenses and small parts
- Adaptive surface for easy lens removal
- Colours can specify the job priority
- Reduces the risk of scratches and chipping

 163 x 226 mm

 10 pieces

1454 ..

1454 40 Green

1454 41 Blue


1454 42 Red



Job Trays

- Flat pack saves on delivery (assemble once)
- Stackable
- With separate division for lenses and small parts
- With label pockets on both sides
- Also for high curved frames
- Material: Polypropylene
- Inner size: (w x h x d): 160 x 60 x 246 mm

 174 x 67 x 260 mm

 10 pieces with labels

1448 3 .

1448 30 Transparent frosted

1448 31 Green frosted

1448 32 Light blue frosted


1448 33 Purple frosted

1448 34 Fuchsia frosted



Job Tray Labels

- 1-sided foil coating (rewritable)

 10 pieces

0076 00 For No. 1448 ..

All job trays are stackable, have a label pocket and a grip tab.

Job Trays made of Recyclable Plastic

- Both trays are combinable

Average Size

- Extra high – 65 mm
 - With separate divisions for lenses and small parts
 - Inner size (w x h x d): 162 x 65 x 255 mm
- Opposite you will find the suitable metal stand **No. 1479 01**.

 170 x 70 x 262 mm  10 pieces with labels

1447 27 Transparent



Average Size

- With separate divisions for lenses and small parts
 - Inner size (w x h x d): 162 x 43 x 255 mm
- Opposite you will find the suitable metal stand **No. 1479 00**.

 170 x 48 x 262 mm  10 pieces with labels

- 1456 05** Red
- 1456 27** Transparent
- 1456 28** Smoked glass



Foam Insert

- For job trays with divisions No. 1447 27 and 1456 ..
- Lenses can be removed easily – even with short or artificial fingernails
- Protects against chipping
- Colour: Anthracite

 80 x 10 x 80 mm  20 pieces

1456 30



Metal Stand for Job Trays Average Size

- To store 10 (48 mm high) or 8 (70 mm high) job trays
- Easy handling due to a practical carry handle
- **Job trays not included**

 200 x 630 x 240 mm

For 10 job trays No. 1456..

1479 00  2.2 kg

For 8 extra high job trays No. 1447 27

1479 01  1.8 kg



Job Tray – Small Size

- Inner size (w x h x d): 138 x 36 x 216 mm


 142 x 39 x 240 mm  10 pieces with labels

1455 27 Transparent



Job Tray Labels

- 1-sided foil coating (rewritable)


 10 pieces

0078 00 For No. 1455 27

0079 00 For No. 1447 27 and 1456..

Small Parts Organiser

- With 15 compartments for several spare parts
- Removable dividers
- Material: PP


 105 x 23.5 x 178 mm

1435 00



Assortment Box with 5 Compartments

- With 5 compartments for several spare parts
- Material: PP

 130 x 35 x 90 mm

1438 00



Assortment Box, small

- Material: Impact-proof ABS plastic
- Safe locking fastener
- Stackable
- Dividing inserts available separately (No. 1446 10 and 1451 10)


 190 x 18 x 126 mm

1445 10



Assortment Box, medium

- Material: Impact-proof ABS plastic
- Safe locking fastener
- Stackable
- Dividing inserts available separately (No. 1446 00 and 1451 00)

 190 x 37 x 126 mm

1445 20



Insert

For assortment box **No. 1445 20**, divided into 9 big compartments.

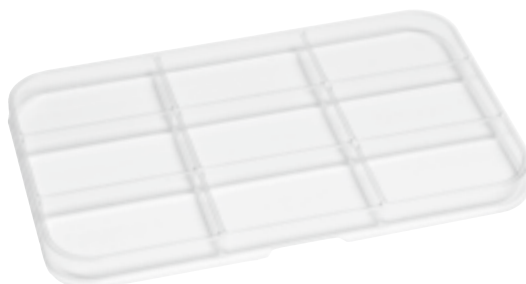
1451 00



Insert

For assortment box **No. 1445 10**, divided into 9 big compartments.

1451 10



Insert

For assortment box **No. 1445 20**, divided into 25 small compartments.

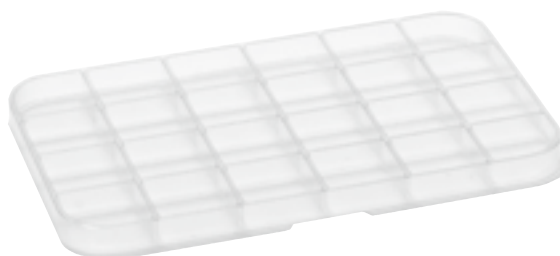
1446 00



Insert

For assortment box **No. 1445 10**, divided into 24 small compartments.

1446 10



Small Parts Box

With 7 separately opening compartments.
Colour: Transparent

Ø 8.7 cm

3 pieces

1437 00



Little boxes – great benefits!

Make room, clean up and always ready for work:
The perfect place to store frame parts.



Hinged Boxes

- Transparent, self-closing lid
- All sides interlock
- All sizes fit together



Snap Lid Box – Slanted Base

- For nose pads, screws etc.
- Slanted base and rounded corners make it easier to pick up small pieces
- Inner size (w x h x d): 37 x 10/15 x 40 mm

 42 x 18 x 57 mm  4 pieces



1457 11 White

1458 21 Blue



Hinged Boxes

- For nose pads, screws etc.
- Inner size (w x h x d): 37 x 15 x 40 mm

 42 x 18 x 57 mm  4 pieces



1457 10 White

1458 20 Blue



Hinged Box Grey

- For temple tips
- Inner size (w x h x d): 57 x 15 x 68 mm



 63 x 18 x 85 mm  4 pieces

1459 30



Hinged Box White

- For screws, washers and nuts
- Inner size (w x h x d): 37 x 15 x 12 mm

 43 x 18 x 29 mm  4 pieces

1457 20



Small Parts Magazine, with 3 Drawers, including Hinged Boxes

- **Complete with:**
- 36 hinged boxes – No. 1457 10, white, **empty**
- 36 hinged boxes – No. 1458 20, blue, **empty**
- 16 hinged boxes – No. 1459 30, grey, **empty**
- Case colour: Light grey

 265 x 108 x 364 mm

1459 50



Small Parts Magazine, with 3 Drawers, without Hinged Boxes

- White, blue, grey – for storage of small parts
- Suitable for hinged boxes No. 1457 10, 1457 20, 1458 20 and 1459 30
- Maximum number of hinged boxes per drawer see No. 1459 50
- Case colour: Light grey

 265 x 108 x 364 mm

1458 50



Assembly example



Complimentary Offer!

When ordering a minimum of 20 different frame parts you will receive the matching boxes absolutely free!



Dispensing Cosmetic Mirror

- Diameter: 17 cm
- Height: 23 cm
- With 1 x and 2 x magnification

7290 02



Cosmetic Mirror with Suction Cups

- Diameter: 20 cm
- With 3 x magnification

7290 01



Hand Cosmetic Mirror

- Diameter: 17 cm
- Total length: 30 cm
- With 1 x and 2 x magnification

7290 03





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ic! berlin Nose Pads
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Ink Paste
Ink Remover Pen
Instant Adhesives
Interliner
Inverted Holder for UV Glues
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Lens Aligner
Lens Blocks
Lens Clock
Lens Deco Pens
Lens Drilling Machine + Accessories
Lens Dyes
Lens Foils
Lens Grip
Lens Groovers + Accessories
Lens Liner
Lens Marking Pens
Lens Protection
Lens Protection Henry
Lens Protection Shim Plate
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Explanation of symbols



Note



Diameter



Thickness
eye wire



Length or width



Thickness



Weight



Height



Thickness
lens washer



Packing unit:
piece/pair



Dimensions
width × depth or
width × height × depth

Space for Your Notes:

Handwriting practice lines consisting of 25 horizontal dotted lines.

Space for Your Notes:

Handwriting practice lines consisting of 20 horizontal dotted lines.

Space for Your Notes:

Handwriting practice lines consisting of 25 horizontal dotted lines.

Space for Your Notes:

Handwriting practice lines consisting of 20 horizontal dotted lines.

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