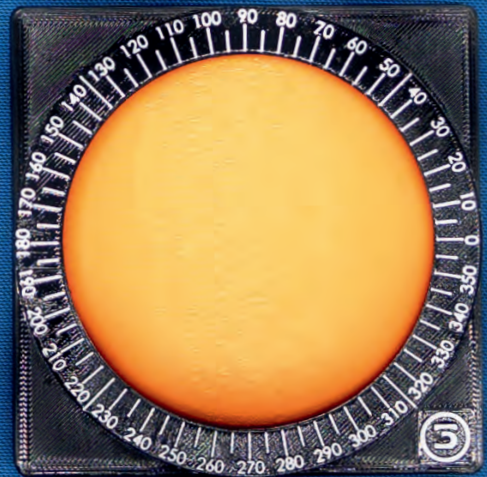




**B&S**  
QUALITY MADE

# WORKSHOP 2024 | 25





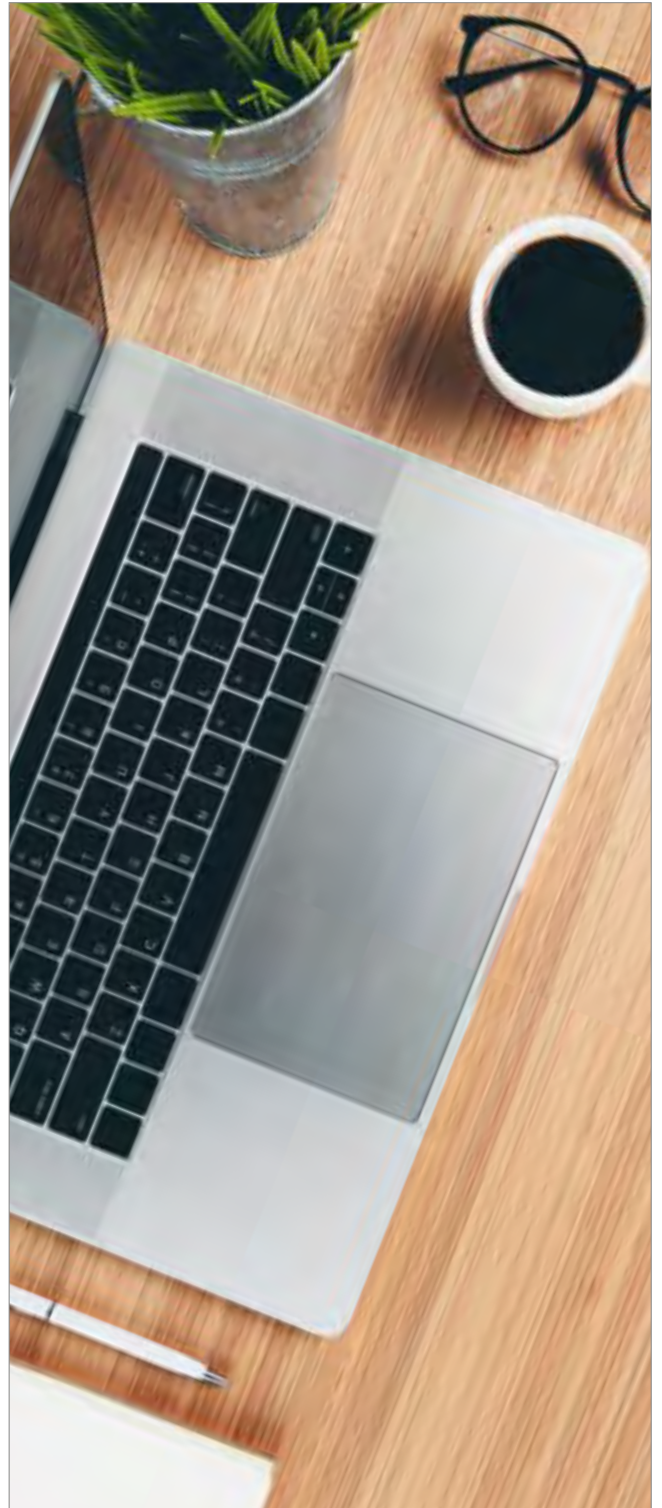
**QUALITY MADE**  
TRUST IN QUALITY



**ONE-STOP SHOP**  
ALL FROM ONE SINGLE SOURCE



**TIPS & TRICKS**  
EXPAND YOUR KNOW-HOW



# Contents 2024 | 25



## 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

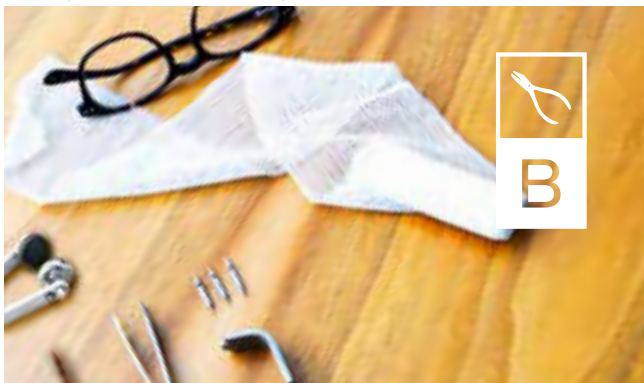
for prevention and treatment



- A 2 Digital Pupilometer
- A 3 Lensmeters
- A 6 Ultrasonic Cleaning Devices
- A 9 Frame Heaters
- A 14 Lens Groover
- A 16 Diamond Hand Edgers
- A 18 Polishing Motors
- A 20 Drilling Machines
- A 24 Soldering Units
- A 27 Small Devices
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- A 32 CLAVULUS and Accessories

## 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
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- B 20 Nose Pad Adjusting Pliers
- B 22 Tips & Tricks: Rimless Frame Pliers
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- B 33 Peening Pliers
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- B 36 De-Blocking Pliers
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## PRECISION TOOLS

for complicated procedures



- C 2 Screwdrivers & Nut Drivers
- 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
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Tools for the right diagnosis



- D 2 Trial Frames
- D 5 Trial Lens Sets
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- D 10 Occluder & Colour Charts
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- D 15 Ophthalmic Lenses
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- D 18 Contact Lens Equipment
- D 22 Lens Clock and Thickness Gauge
- D 24 Caliper Gauges
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## CONSUMABLES

for first aid measures



- E 2 Lens Blocks and Adhesive Pads
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- E 12 Glues and Screw Securing
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- E 26 Buffing Wheels and Brushes
- E 28 Polishing and Grinding Wax
- E 30 Marking and Emery Tools
- E 31 Solder and Flux

## SPECTACLE FRAME PARTS

in exact dosage with targeted effect



- F 2 Overview: Nose Pads
- F 10 Tips & Tricks: Silicone Nose Pads Minifits
- F 12 Nose Pad Cushions
- F 14 Tips & Tricks: Self-adhesive Nose Pad Cushion
- F 16 Tips & Tricks: Nose Pad Arms
- F 17 Nose Pad Arms
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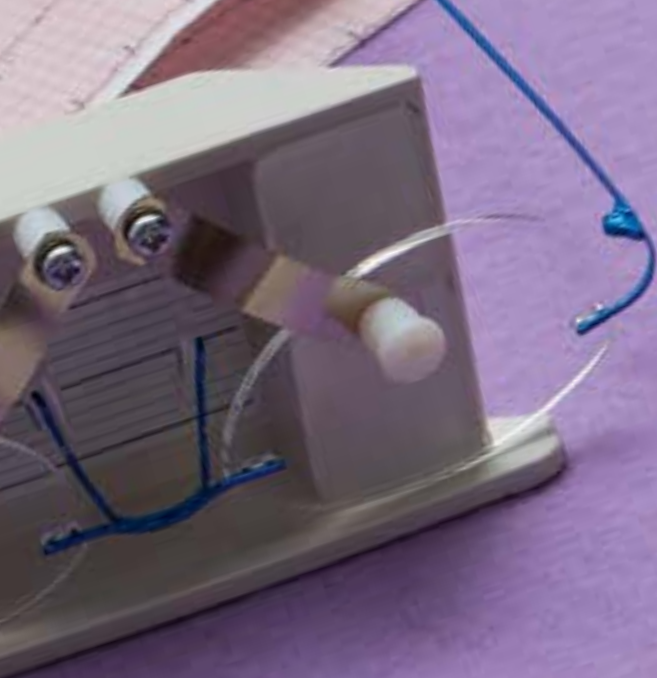
## ORGANISING AIDS

for the effective treatment plan



- G 2 Presentation Trays
- G 3 Job Bags
- G 5 Price Tags
- G 6 Job Trays
- G 10 Assortment Boxes and Hinged Boxes
- G 14 Cosmetic Mirrors





# MACHINES

for prevention and treatment



- A 2 Digital Pupilometer
- A 3 Lensmeters
- A 6 Ultrasonic Cleaning Devices
- A 9 Frame Heaters
- A 14 Lens Groover
- A 16 Diamond Hand Edgers
- A 18 Polishing Motors
- A 20 Drilling Machines
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## Pupillometer

Pupillometer 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

**120 2871**  
2387 00

 **12 month warranty!**

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






## Automatic Lensmeter BS-5000

- Wavefront measuring with Hartmann-Sensor (145 Measuring points)
- LCD colour touch-screen
- Automatic measurement
- Automatic measuring for progressive lenses
- Measurement of the UV transmission, PD and PH
- Measurement of the blue light filter/Transmission measurement
- Contact lens mode
- Displays resultant prism
- Built-in thermal printer
- Supplied in aluminium case
- Result is available via QR code

**120 2801**  
2354 10

 **12 month warranty!**

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



Exclusive to B & S



Delivery occurs in a precisely fitting aluminium case.

## Accessories for BS-4000 WF and BS-5000


### Ink Cartridges

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

 White


**120 2826**  3 pieces  
2357 60


 Red

**120 2827**  3 pieces  
2357 61

### Printing Paper

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

**120 2824**  3 rolls  
2357 51

**120 2825**  10 rolls  
2357 52





## 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

**120 2810**

2355 20



**12 month warranty!**



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



## Accessories for Ocular Lensmeter

### Ink for Ocular Lensmeter (without illustration)

**120 2809**

2355 19

## Technical Data for all Devices at a Glance

Technical data	120 2801 2354 10 BS-5000	120 2810 2355 20 Ocular
<b>Measuring range</b>		
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 20 Δ	0 to 20 Δ
<b>Measuring units</b>		
Diopters:	0.01/0.06/0.12/0.25 dpt.	0.125 dpt. to ± 5.0 dpt. 0.25 dpt. to ± 5.0 dpt.
Prism:	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
<b>Measurements</b>		
Optical measuring light Ø:	8 mm	
Pupil distance (steps 0.5 mm):	42 to 82 mm	
UV transmission 0 to 100 % (375 nm):	<b>X</b>	
Measures standard lenses:	<b>X</b>	<b>X</b>
Measures bifocals:	<b>X</b>	<b>X</b>
Measures trifocals:	<b>X</b>	<b>X</b>
Measures progressive lenses:	<b>X</b>	
Measures contact lenses:	<b>X</b>	
<b>Monitor display</b>		
Colour touch-screen:	<b>X</b>	
<b>External communication</b>		
Serial interface RS-232C:	<b>X</b>	
<b>General</b>		
Thermal printer:	<b>X</b>	
Power:	35 W	35 W
Power usage per 10 min:	0.0058 kWh	0.0058 kWh
Voltage:	240 V	240 V
Size (w x h x d):	203 x 471 x 233 mm	150 x 450 x 280 mm
Weight:	4.5 kg	4.9 kg

## Elma Easy Cleaning Devices Professional unit “Made in Germany”

### The new Elma Easy devices series

- The eco mode enables quieter cleaning that is gentle on the material and extends the service life of the bath. For the most stubborn soiling, the dynamic mode with its optimized sound field distribution in the cleaning bath is used.
- The clearly arranged control panel makes ultrasonic cleaning easy. Visual and audible signals when the cleaning time or temperature is reached and in the event of errors support the user.

### Elma Easy 10 – “The Classic”

- Reliable device with 0.8 l tank

130 3737

 36 month warranty!

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




### Elma Easy 30 – “The Advanced”

- Comfortable device with 2.8 l tank
- Carrying handle in plastic
- More cleaning power, thus better cleaning effect

130 3738

 36 month warranty!

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




### Elma Easy 30H – “The Advanced – including Heating”

#### Technically as No. 130 3738, 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

130 3739

 36 month warranty!

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



Technical data	130 3737	130 3738	130 3739
Tank (w x h x d):	185 x 55 x 80 mm	220 x 95 x 120 mm	220 x 95 x 120 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):	235 x 200 x 130 mm	305 x 230 x 190 mm	305 x 230 x 190 mm
Weight:	2 kg	3.3 kg	3.3 kg
Available baskets:	130 3959, 120 3794 2971 02	130 5960	130 5960





## Accessories

### Metal Basket

Suitable for ultra sonic device 130 3737, 130 3736, 120 3801 (discontinued) and 120 3790 (discontinued). Consists of stainless steel for hanging

#### 130 3959



 155 x 35 x 75 mm without handles  205 g



### Metal Basket

Suitable for ultra sonic device 130 3738, 130 3739, 120 3806 (discontinued) and 120 3809 (discontinued). Consists of stainless steel for hanging

#### 130 3960

 195 x 50 x 105 mm without handles  340 g





### Plastic Basket

For ultrasonic cleaners No. 120 3790, 120 3801 and 120 3810.

#### 120 3794

2971 02

 185 x 47 x 85 mm  49 g



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


## Elma Easy built-in cleaning device Professional device "Made in Germany"


- Compact device: container and generator in the same housing without operating elements
- The device is switched on/off by means of a radio-controlled socket. With this device, a quieter and material-friendly cleaning is possible, and it extends the life of the tub. The device can be lifted out of the tabletop with a firmly connected handle to clean it.

### Technical data

Tank (w x h x d):	185 x 55 x 80 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):	235 x 200 x 130 mm
Weight:	2 kg
Available baskets:	130 3959, 120 3794 2971 02

130 3736

 36 month warranty!

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





## Accessories

### Rinsing Container for 120 3790

Without drain

120 3791

2970 11

 190 x 75 x 85 mm  740 g





## 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


 Black/Grey

**120 3184**  
2872 01

#### 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.

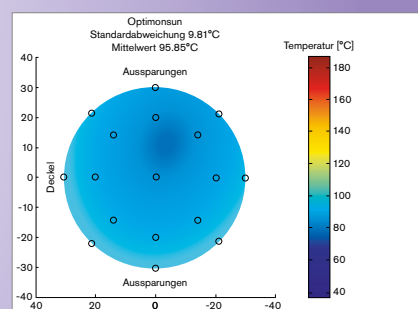
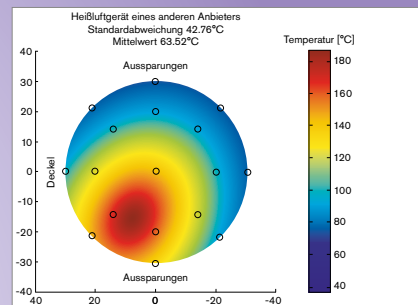
**Template for OPTIFORMA Profi No. 120 3184** (without illustration)

**120 3190**  
2872 25

## 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)



**120 3127**  
2865 00  
White



**120 3128**  
2865 01  
Metallic  
Black



**120 3129**  
2865 02  
Metallic  
Grey

120 3127–29

## Design Frame Heater OPTIMONSUN Electronic

Technically like as specified above 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



**120 3143**  
2866 00  
White



**120 3144**  
2866 01  
Metallic  
Black



**120 3145**  
2866 02  
Metallic  
Grey

120 3143–45

Technical data	OPTIMONSUN D	OPTIMONSUN D Electronic
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



**120 3158**  
2867 10

**120 3156-60**



**36 month warranty!**



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



**120 3156**  
2867 01  
Metallic  
Black



**120 3158**  
2867 10  
Metallic  
Grey



**120 3159**  
2867 15  
Blue



**120 3160**  
2867 22  
White

## Frame Heater OPTIMONSUN Electronic

Technically like 120 3156-60, but also features:

- With constant electronic temperature control, temperature variable adjustable

**120 3165-68**



**36 month warranty!**



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



**120 3165**  
2869 01  
Metallic  
Black



**120 3166**  
2869 10  
Metallic  
Grey



**120 3167**  
2869 15  
Blue



**120 3168**  
2869 22  
White



**120 3167**  
2869 15

Technical data	OPTIMONSUN	OPTIMONSUN Electronic
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)

**120 3214**

2878 00


### Fata up (without temperature control)


**120 3216**

2878 10

#### 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


**120 3194**

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 kWh
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

**120 3200**

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

**120 3114**

2861 22



## VENTILETTE Model 3, Electronic


- Same as No. 120 3114, however with adjustable temperature level


**120 3117**

2861 42



Technical data	120 3114 2861 22	120 3117 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.

## 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. 109 6899 (0.55 mm)


**120 3373**  
2899 00N



### 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

 **36 month warranty!**

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



## Spare Parts for Groover No. 120 3373 and 2899 00 (discontinued)

For 120 3373 2899 00N	For 2899 00	Description
120 3351 2898 13	120 3351 2898 13	Chuck knob right with lock screw
120 3352 2898 14	120 3352 2898 14	Right shaft assembly
120 3361 2898 23	120 3361 2898 23	Ball bearing for driveshaft
120 3362 2898 24	120 3362 2898 24	Drive belt for grooving motor
120 3379 2899 01N	120 3378 2899 01	Groove table complete
120 3382 2899 03N	120 3381 2899 03	Cover for diamond wheel 0.55 mm
120 3388 2899 10N	–	Cover for diamond wheel 1.05 mm/1.20 mm
120 3390 2899 19N	–	Left guide roller
120 3391 2899 20N	–	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.



- For groove wide: 0.55 mm
- Outer diameter: 25 mm
- For No. 2894 00, 120 3286, 2899 00 and 120 3373



**120 3269**  
2893 01

- For groove wide: 1.05 mm
- Outer diameter: 25 mm
- For No. 2894 00, 120 3286, 2899 00 and 120 3373



**120 3281**  
2893 18

- For groove wide: 1.23 mm
- Outer diameter: 25 mm
- For No. 2894 00, 120 3286, 2899 00 and 120 3373



**120 3291**  
2894 03

### Diamond Grooving Wheel

- For groove wide: 0.55 mm
- Outer diameter: 25 mm
- For No. 2894 00, 120 3286, 2899 00 and 120 3373



**109 6899**  
2898 33

### Half-Eye Frames Adapter

- For No. 2894 00 and 120 3286



**120 3279**  
2893 15 1 pair

### Adapter Set for Lenti Grooving for No. 120 3286

- Consists of diamond wheel No. 120 3283 and support table No. 120 3284
- Possible rim reduction: 2 mm
- For No. 2894 00 and 120 3286



**120 3282** 230 g  
2893 20

## Hand Edger

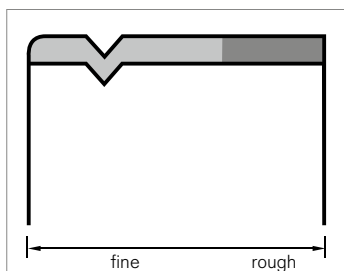
- Available with 2 different diamond wheels
- Compact and robust plastic housing
- Switch to change the direction of rotation
- 35 mm width diamond wheel with V-bevel

### Rough and fine surfaces with V-bevel

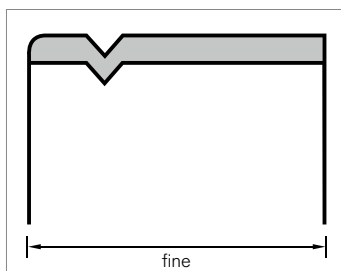
**120 3704**  
2928 00

### With fine surfaces with V-bevel

**121 1531**  
2928 20



**120 3704**  
2928 00



**121 1531**  
2928 20

## 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

**120 3714**  
2928 10



## 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

**120 3698**  
2927 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 275 x 360 mm
Weight:	7.5 kg

**12 month warranty!**

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

### 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.

### 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.



## 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

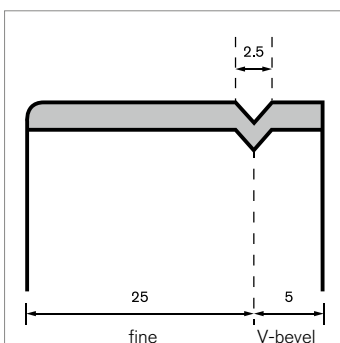
- Direction switch to change the direction of rotation
- High quality diamond wheel, 30 mm width, available in different versions, especially long lasting



### Diamond Hand Edger

With diamond wheel  
Finishing wheel with V-bevel and shoulder

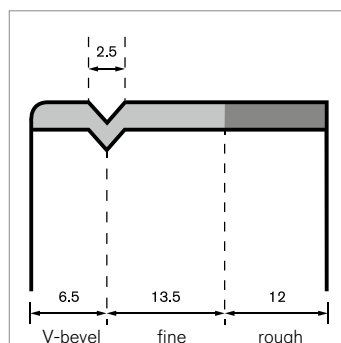
**120 3692**  
2923 00



### Diamond Hand Edger

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

**120 3693**  
2925 00



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.

## 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

**120 3772**  
2967 00

#### 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.



## Spare Tips for the Polishing Machines No. 120 3772 and 2966 00 (discontinued)

### Polishing Tip, left

With right hand thread

**120 3769**  
2966 22

∅ 14 mm (Bore)

—|— approx. 115 mm



### Polishing Tip, right

With left hand thread

**120 3770**  
2966 23

∅ 10 mm (Bore)

—|— approx. 115 mm



Please consider before ordering: **Lever in right hand run position (clockwise wheel rotation):**  
left: polishing tip No. 120 3769 – right: polishing tip No. 120 3770

## 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)

**120 3782**  
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 25.

## Universal Dust Collector for right and left

- Metal casing with removable plastic tray

**120 3787**  
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

### Accessories included:

- Marking aid for lenses No. 120 3251
- 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. 120 2547

**120 3259**


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

**120 3251**

2889 01





## LessStress Drilling Machine

- LessStress drills and mills each lens exactly (0.05 mm with digital display of both axes) according to support lens or drawing
- Drill head swivels

### Accessories included:


- LessStress Drilling Machine
- 2 working plates
- 3 carbide milling drills (1.2; 1.3; 1.4)
- Phillips screwdriver
- Collet with collet set
- 4 PVC supports, 2 PVC strips
- 6 clamping straps for blocked-off glasses
- 2 clamping straps for blocked glasses
- 1 zero setter, 2 drive belts, 2 clamping bridges
- storage block for drills
- Power supply 230–12 V
- Operating instructions


**120 3229**

2884 00

### Technical data

Speed:	2,400/3,600/4,800 rpm
Power:	12 W
Power usage per 10 min:	0.00199 kWh
Voltage:	230 V
Operating voltage:	12 V
Size (w x h x d):	300 x 300 x 220 mm
Weight:	3.2 kg

 **12 month warranty!**

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



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

## 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. 120 3243
- Incl. drill chuck No. 120 3237
- 6 steel clamps for shaft size from 0.8 to 3.2 mm
- **Accessories:** Base plate No. 120 3239, cross table No. 120 2672 and lens rest dome No. 120 2676

**120 3248**  
2887 55

Identical with No. 120 3248, however **without** accessories.

**120 3242**  
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. 120 3233 and vice No. 120 3243 are not included.**

**120 2653**  
2128 65

**36** month warranty!

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



## Machine Vice

For table drilling machine No. 120 3242 and drill stand No. 120 2653 and 2128 70 (discontinued).

**120 3243**  
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. 120 3234.

Does not include pictured grinding wheels or polishing wheels.


**120 3233**

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.


**120 3232**

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. 120 3108, soldering hand piece No. 120 3109, float levels No. 120 3111 and 120 3112, electrolyte No. 120 3958 and flux No. 120 3960


**120 3092**  
2839 60


### AQUARIUS Welding and Soldering Unit

- Like No. 120 3092, 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. 120 3108, soldering hand piece No. 120 3109, float levels No. 120 3111 and 120 3112, sets of jets No. 120 3105, electrolyte No. 120 3958 and flux No. 120 3960

**120 3087**  
2839 00

Technical data	120 3092 2839 60	120 3087 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.

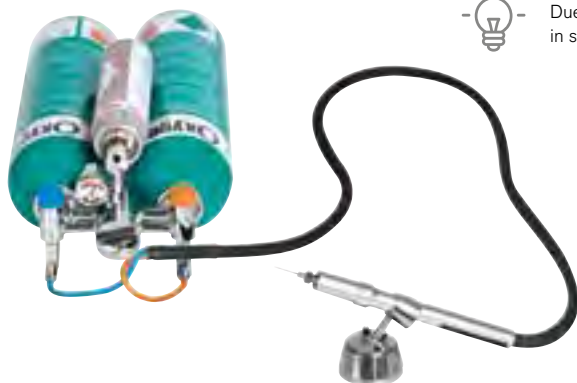



## Micro-Torch II+ Complete Set with Central Dosing Valve

- 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. 120 3072, hand piece No. 120 3073, gas cartridge No. 120 3075, Triox adapter with dosing valve No. 120 3080 and single jets No. 120 3098, 120 3100, 120 3102 and 120 3103

**120 3077**

2762 05



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



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. 120 3075

**120 3081**

2763 00



160 g



## Soldering Iron

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

**120 3082**

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. 120 3082:

**120 3083**

2770 10

**Punch with grooved head**

Inside width: 3 mm



**120 3084**

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

**120 3058**  
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

**120 3068**  
2757 20

 1.4 kg



## Accessories for the Soldering Unit No. 120 3077 for AQUARIUS Soldering and Welding Units

### Single Jets

Gauge* Description	Jet Ø	Opening Ø	Order No.
24	0.5 mm	4.0 mm	<b>120 3097</b> 2840 05
23	0.6 mm	4.0 mm	<b>120 3098</b> 2840 06
22	0.7 mm	4.0 mm	<b>120 3099</b> 2840 07
21	0.8 mm	4.0 mm	<b>120 3100</b> 2840 08
20	0.9 mm	4.0 mm	<b>120 3101</b> 2840 09
19	1.0 mm	4.0 mm	<b>120 3102</b> 2840 10
18	1.2 mm	4.0 mm	<b>120 3103</b> 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


**120 3105**  
2840 50



 You will find our soldering accessories on page E 31 to E 33.

### 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

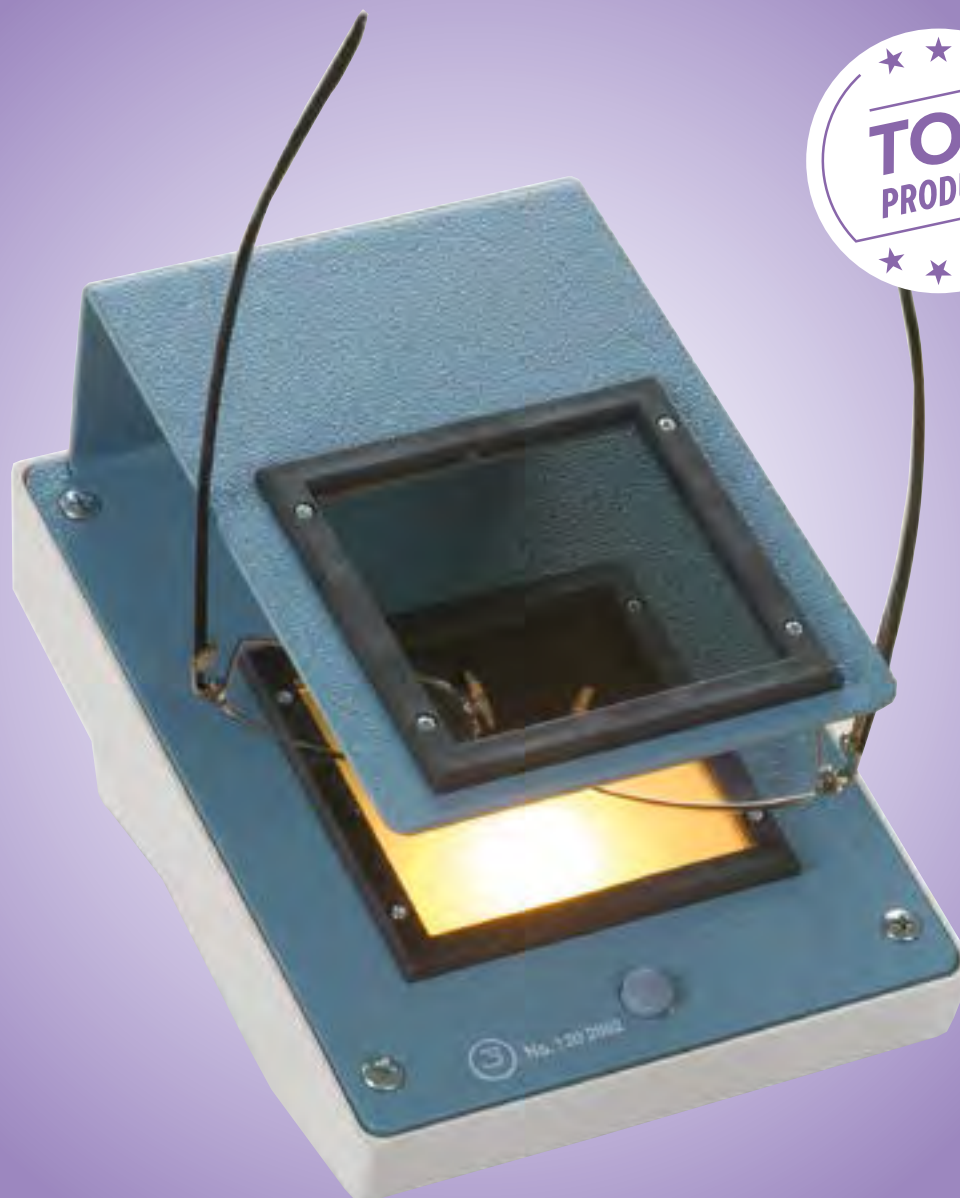
**120 3104**  12 = 1 set  
2840 20





## 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

**120 2862**  
2384 22


### LED Light Source (without illustration)


For No. 120 2862

**120 2865**  
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!**

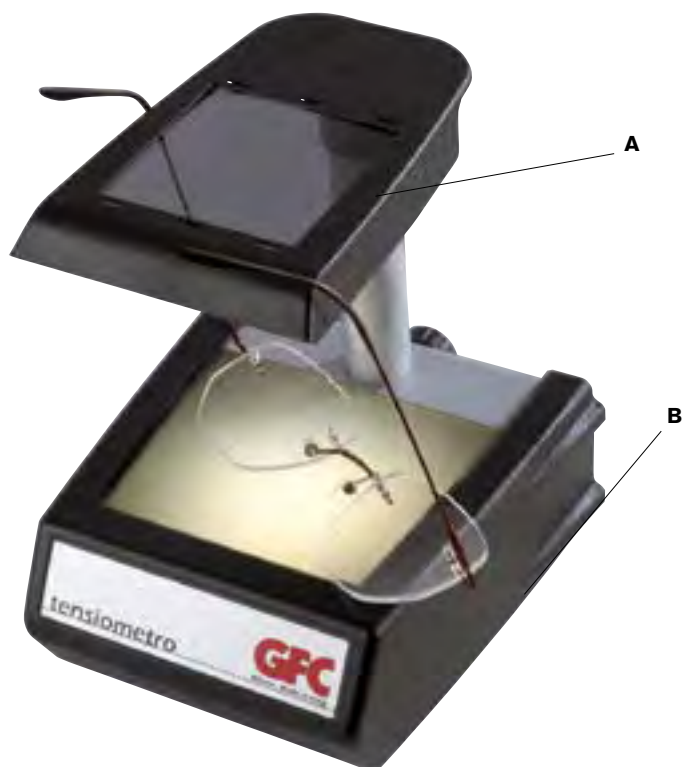
 For **spare parts** contact your local distributor.



## 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 LED-lighting inside the metal housing

**130 2841**  
2397 22N



Technical data	
Size of polarising field:	A) 58 x 58 mm B) 75 x 75 mm
Distance between polarised fields:	95 mm
Power:	4.5 W
Power usage per 10 min:	0.00075 kWh
Voltage:	12 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 and battery
- Made of plastic and metal

**120 2879**  
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 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
- With LED-lighting inside the metal housing


**130 2842**

2451 00N



Technical data	
Power:	4.5 W
Power usage per 10 min:	0.00075 kWh
Voltage:	12 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.

## GFC UV Test Lamp

To demonstrate photochromatic lenses to customers.


**120 2885**

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.

## Hygiene Box


- Absolutely reliable – disinfection of up to 99.9% of all microorganisms
- Extremely quick application – only 30–60 seconds for disinfection
- Environmentally friendly – sustainable and chemical free UV-C disinfection without waste
- Zero resistance
- Completely dry, no liquid or any other additives required
- Lifetime of UV-C lamp approx. 9,000 hrs (equals about 8.2 years with an average use of 3 hrs/day)
- Low maintenance and easy handling
- Very little after sales costs (only for current and a possible lamp exchange after years)
- Holds up to six frames in parallel

**120 2903**  
2471 00



Technical data	
Duration of an application:	30–60 seconds
Wavelength:	253.7 nm
Power:	8 W
Power usage per 10 min:	0.0013 kWh
Lamp mean lifetime:	9,000 h
Voltage:	230 V 50 Hz
Size (w x h x d):	340 x 210 x 190 mm
Weight:	3.8 kg



 **36 month warranty!**

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

## Tray for GFC UV sterilizer

- Tray for 120 2903
- Enables the cleaning of smaller items, such as trial lenses or screwdrivers

**120 2906**  
2471 03





## UV Lamp for UV Light Curing Adhesives

- To activate all UV curing glues
- UV protection for the user
- With 15 energy-efficient LED lamps
- With time setting 99 sec and infrared sensor

**120 2894**  
2421 00

Technical data	
Power:	24 W
Power usage per 10 min:	0.0039 kWh
Voltage:	230 V
Size (w x h x d):	215 x 75 x 120 mm
Weight:	200 g

 24 month warranty!



**120 3945**  
3184 10



**120 2894**  
2421 00

**120 3940**  
3184 03

## Bulb for the UV Lamp for Adhesives

Spare bulb for No. 2430 00\*, 2420 00\*, 2420 10\*, 121 0377\* and 120 2896\*

Capacity: 9 W

**120 2898**  
2431 01



You will find our UV-Fix-Gel on page E 11.

\* discontinued



## 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.

**130 1038**  
2125 50

 135 x 290 x 175 mm

 2.5 kg



## Accessories for CLAVULUS

### Bending Device for Bridge Narrowing

With wide and narrow cone

**120 2627**

2125 26



### Fixing Screw for Punches and Anvils

**120 2664**

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

**120 2654**

2129 00



- Incl. drilling support  
No. 120 2655



### Riveting Punch

**120 2620**

2125 02



### Flaring Punch, Ø 1.5 mm

**120 2621**

2125 04



### Flaring Punch, Ø 2.1 mm

**120 2622**

2125 05



### Anvil, Ø 1.8 mm

**120 2632**

2125 41



### Stamp

For marking spectacles  
(see also page B 38)

**120 2629** 2125 31 1 sign



**120 2630** 2125 32 2 signs

**120 2631** 2125 33 3 signs




You will find further spare parts  
on page A 35.


## 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 extension and 9 anvils

**120 2634**

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. 120 2634 and 130 1038

### Peening Punch

**120 2635**  
2126 10



### Riveting Punch

**120 2636**  
2126 11



### Flaring Punch, Ø 1.5 mm

**120 2637**  
2126 12



### Flaring Punch, Ø 2.1 mm

**120 2638**  
2126 13



### Rivet Extractor

**120 2639**  
2126 14



### Double Rivet Extractor

**120 2640**  
2126 15



### Punch for Spread Hinges

**120 2641**  
2126 16



### Single Punch

**120 2642**  
2126 17



### Double Punch

**120 2643**  
2126 18



### Anvil with Slot

**120 2644**  
2126 20



### Riveting Anvil

**120 2645**  
2126 21



### Anvil without Hole

**120 2646**  
2126 22



### Single Hole Anvil

**120 2647**  
2126 23



### Anvil Extension

**120 2648**  
2126 25



### Plastic Anvil

**120 2649**  
2126 27



### Slotted Anvil

**120 2650**  
2126 28



### Anvil with Drill, Ø 1.8 mm

**120 2651**  
2126 29



### Spare Pins for Single and Double Hole Anvil

**120 2652**  
2126 30



10 pieces









# PLIERS

with pliers every grasp fits



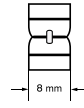
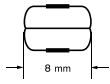
**B**

- 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
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- 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.

**120 2020**  
1551 00P  
| 140 mm 135 g

Replacement plastic jaws:

**108 1417** 1 pair  
1551 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.

**120 1907**  
1511 00P  
| 140 mm 140 g

Replacement plastic jaws:

**120 1909** 1 pair  
1511 01

## 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. 120 1925 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 20 and E 21.



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:  $\varnothing$  6:1.5 mm.

#### Standard:

**109 2191**

1558 00N

150 mm 140 g

#### eLite:

**120 2041**

1558 50

148 mm 100 g

Replacement plastic jaw (also for 1558 00 P – discontinued):

**109 2205**

1558 01



### Inclination Pliers – Conical 6 mm

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

#### Standard:

**109 2192**

1558 10N

150 mm 140 g

#### eLite:

**120 2044**

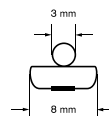
1558 55

148 mm 100 g

Replacement plastic jaw:

**109 2206**

1558 02





### Inclination Pliers – with Notch 8 mm

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

**Standard:**

**120 2039**

1558 20N

 150 mm  140 g



### Inclination Pliers – Cylindrical 8 mm

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

**Standard:**

**109 2193**

1596 00N

 150 mm  140 g

Replacement plastic jaw (also for 1558 00 P – discontinued):

**109 2205**

1558 01

Replacement plastic jaw:

**109 2207**

1596 01

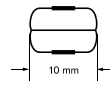


### Handle cover for pliers – your advantage at work from B & S

- 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:**  
**108 0766**

1553 00N

150 mm 140 g

Replacement plastic jaws:

**108 1418**  
1553 01

1 pair



### Holding Pliers 8 mm

With plastic jaws.

**Standard:**

**108 0767**

1551 00N

150 mm

140 g

**eLite:**

**120 2024**

1551 50

148 mm

100 g

Replacement plastic jaws:

**108 1417**

1551 01

1 pair



### Holding Pliers 6 mm

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

**Standard:**

**120 2055**

1565 00N

150 mm

140 g

**eLite:**

**120 2058**

1565 50

148 mm

100 g

Replacement plastic jaws:

**120 2057**

1565 01

1 pair



**Nylon Eyewire Shaper 24 mm**

With plastic jaws, large version.

**Standard:**

**120 1894**

1507 00N

150 mm 140 g

**eLite:**

**120 1898**

1507 50

145 mm 110 g

Replacement plastic jaws:

**120 1896**

1507 01

1 pair



**Nylon Eyewire Shaper 19 mm**

With plastic jaws, small version.

**Standard:**

**120 1900**

1509 00N

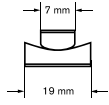
145 mm 140 g

Replacement plastic jaws:

**120 1902**

1509 01

1 pair



### Nylon Eyewire Shaper 19/7

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

**Standard:**

**108 0762**

1506 00N

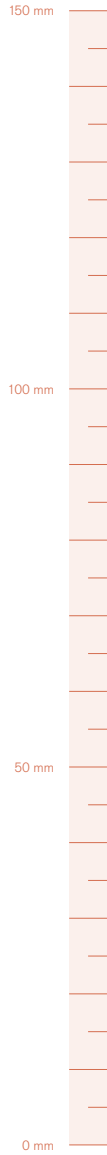
145 mm 140 g

Replacement plastic jaws:

**108 1415**

1506 01

1 pair



### Nylon Eyewire Shaper 15/12

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

**Standard:**

**120 2104**

1584 00N

145 mm 140 g

**eLite:**

**120 2107**

1584 50

137 mm 100 g

Replacement plastic jaws:

**120 2106**

1584 01

1 pair

**TIPS & TRICKS**

**BENDING PLIERS WITH 3 ROLLERS**

*One Plier for Many Applications!*



**Bending Pliers with 3 Rollers**  
No. 108 0761, 120 2064

**2** approx. 1–2 minutes

*This is how it works*

**TO ADJUST THE:**

**1** TEMPLES



**2** EYEWIRE



**3** BRIDGE



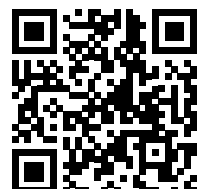
**4** TEMPLE ENDS



**5** LENS SHAPE



 YouTube






## Bending Pliers with 3 Rollers

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

### Standard:

**108 0761**

1566 00N

150 mm  140 g

### eLite:

**120 2064**

1566 50

148 mm  95 g

Replacement plastic jaws:

**108 1413**

1566 01

 1 set



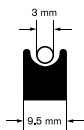
# eLite: smaller, lighter and with matt finish



You will find our Plasti Dip on page E 20 and E 21.



You will find our shrinking tubes on page F 72.



## 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:**  
**120 1994**  
1544 00N

|—| 140 mm    ●▲ 140 g

**eLite:**  
**120 1997**  
1544 50

|—| 137 mm    ●▲ 90 g



## Trident Pliers

For precise and easy adjustment of clip-on bridges.

**Standard:**  
**108 0760**  
1513 00N

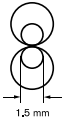
|—| 140 mm    ●▲ 140 g

**eLite:**  
**120 1923**  
1513 50

|—| 137 mm    ●▲ 100 g

Replacement plastic jaw:

**120 1996**  
1544 01



**Round Snipe Nose Pliers**

Round jaws.

**Standard:**  
**120 1882**  
 1501 00N

150 mm 140 g

**Round Snipe Nose Pliers with Notches**

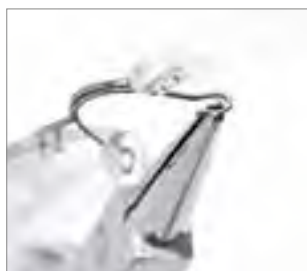
Round jaws.  
 Notches in both tips.

**Standard:**  
**120 1884**  
 1501 10N

150 mm 140 g







**Flat Snipe Nose Pliers – Extra Long**

Flat inner jaws.  
Extra long and thin version.

**Standard:**

**120 2051**

1564 00N

155 mm 140 g

**eLite:**

**120 2053**

1564 50

148 mm 100 g



**Flat Snipe Nose Pliers**

Semi-circular jaws.

**Standard:**

**120 1933**

1515 00N

150 mm 140 g

**eLite:**

**120 1935**

1515 50

148 mm 100 g



**Flat Semi-circular Snipe Nose Pliers**

One round jaw, one semi-circular jaw.

**Standard:**  
**120 1941**  
 1517 00N

150 mm 140 g

**Flat Nose Pliers 5 mm**

5 mm width at tip.

**Standard:**  
**109 2196**  
 1523 00N

150 mm 140 g

**eLite: smaller, lighter and with matt finish**



**Flat Nose Pliers 3 mm**

3 mm width at tip.

**Standard:**

**109 2197**

1522 00N

150 mm 140 g

**eLite:**

**120 1953**

1522 50

148 mm 95 g



**Nose Pad Removing Pliers**

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

**Standard:**

**120 1886**

1502 00N

150 mm 140 g

**eLite:**

**120 1888**

1502 50

148 mm 100 g



### Size Testing Pliers

For testing lens size during the finishing process.

**Standard:**

**109 2194**

1542 00N

|—| 145 mm

●▲ 140 g

**eLite:**

**120 1992**

1542 50

|—| 139 mm

●▲ 95 g

### Size Testing Pliers – Large

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

**Standard:**

**120 1970**

1531 00N

|—| 155 mm

●▲ 140 g

**eLite:**

**120 1972**

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:

**120 2014**

1550 10N

—| 150 mm

●▲ 155 g

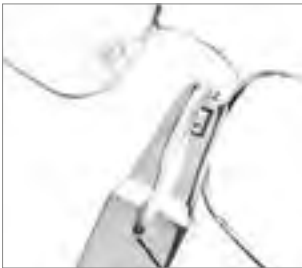
#### eLite:

**120 2016**

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:**  
**120 2010**  
 1549 00N

150 mm 140 g

**eLite:**  
**120 2012**  
 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:**  
**120 2001**  
 1546 00N

150 mm 140 g

**eLite:**  
**120 2003**  
 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. 108 0764, 120 2069

**Removing Pliers**

No. 108 0763, 120 2075

**Lens Protection Shim Plate with Long Holes**

No. 109 6681

**Special Front Cutter for Plastic Sleeves**

No. 120 2080



**5** 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**



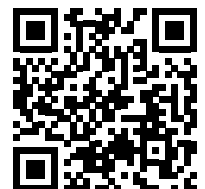
**2 TURNING**



**3 TIGHTEN**



YouTube





### 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:

**108 0764**

1567 00N

—| 150 mm

●▲ 140 g

#### eLite:

**120 2069**

1567 50

—| 148 mm

●▲ 95 g

Replacement plastic jaws:

**108 1419**

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:

**108 0763**

1568 00N

—| 150 mm

●▲ 140 g

#### eLite:

**120 2075**

1568 50

—| 148 mm

●▲ 95 g

Replacement plastic jaws:

**108 1420**

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:**

**108 2134**

1511 00N

150 mm 145 g

**eLite:**

**120 1917**

1511 50

145 mm 100 g

Replacement plastic jaws:

**120 1909**

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. 108 2134, but is offered with a deeper groove and exchangeable rubber O-rings. Comes complete with 5 O-rings.

**Standard:**

**120 1915**

1511 10N

150 mm 145 g

Replacement plastic jaws:

**120 1911**

1511 02

1 pair

Replacement O-rings:

**120 1913**

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:

**120 2077**

1569 00N

140 mm 140 g

#### eLite:

**120 2080**

1569 50

137 mm 95 g

#### With plastic grip and opening spring:

**120 2079**

1569 11

115 mm 70 g



**eLite: smaller, lighter and with matt finish**



**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:**  
**108 0772**  
 1583 50  
 | 100 mm | 40 g

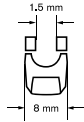


**Special Pliers for Screwless Rimless Frames**

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

**Standard:**  
**120 1943**  
 1518 00N  
 | 140 mm | 140 g

**eLite:**  
**120 1945**  
 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:**  
**109 2198**  
1539 00N

155 mm 140 g

Replacement plastic jaw:

**109 2209**  
1539 01

### Screw Cutter

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

**Standard:**  
**120 2089**  
1578 00N

130 mm 125 g

**eLite:** smaller, lighter and with matt finish



**Hinge Setting or Angling Pliers**

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

**Standard:**

**120 2006**

1548 00N

148 mm 140 g

**eLite:**

**120 2008**

1548 50

137 mm 90 g



**Hinge Adjusting Pliers**

To easily bend and adjust roll joint.

**Standard:**

**120 2029**

1555 00N



145 mm 140 g



### Hinge Adjusting Pliers

Width of mouth: 1.5 mm

**Standard:**  
**120 1981**  
1538 00N



 148 mm  140 g



### Windsor Rim Pliers

For notching or cutting of Windsor rims.

**Standard:**  
**120 2098**  
1580 00N

 150 mm  150 g



## TIPS & TRICKS

### BIONIC THUMB

*For the Necessary Strength in the Thumb*

**Bionic Thumb**  
No. 109 2463, 64  
**Pro Screwdriver**  
used for example:  
No. 120 2159



approx. 1 minute

*This is how it works*



#### FOR ADJUSTING:

##### 1 TEMPLES



##### 2 TEMPLE TIPS



##### 3 FRAME FRONT



##### 4 NOSE PAD ARMS

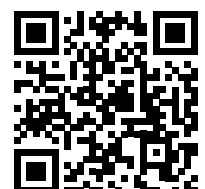


#### TO PROTECT:

##### 1 SCREWING




 YouTube









### Original Bionic Thumb

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

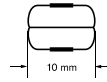
**109 2463**  
2045 00000  1 piece

 135 x 15 x 22 mm  90 g

**109 2464**  
2045 01000  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:**

**108 0765**  
1541 00N

150 mm 140 g

Replacement plastic jaws:

**108 1416**  
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:**

**108 0769**  
1530 00N

150 mm 140 g

Replacement plastic jaws:

**108 1421**  
1530 01

1 pair



### Peening Pliers

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

**Standard:**

**120 1957**  
1527 10N  
| 150 mm    ●▲ 140 g

**eLite:**

**120 1961**  
1527 50  
| 140 mm    ●▲ 95 g

Replacement peening tips:

**120 1980**  
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:**

**120 1959**  
1527 20N  
| 145 mm    ●▲ 150 g

**eLite:**

**120 1963**  
1527 55  
| 140 mm    ●▲ 110 g

Replacement peening tips:

**120 1980**  
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:**

**109 2195**

1516 01N

|—| 200 mm    ●▲ 240 g

Replacement rubber discs:

**109 2208**

1532 01

📦 1 pair

Replacement plate complete with spring:

**120 1975**

1534 02

### Lens Aligner 20 mm

Same as No. 109 2195, but with two Ø 20 mm discs.  
 Spring mechanism on the handle. Especially for small frames.

**Standard:**

**108 0768**

1516 20N

|—| 200 mm    ●▲ 240 g

Replacement rubber discs:

**108 1422**

1535 20

📦 1 pair



## Chipping Pliers

With exchangeable jaws, including replacement jaws.

### Standard:

**120 2047**

1561 00N

—| 145 mm    ●▲ 140 g

Replacement jaws:

**120 2049**

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:**  
**108 0771**  
1520 00N

—| 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:**

**109 2199**

1592 00N

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:**

**108 0770**

1591 50

145 mm

125 g

Replacement jaws:

**109 2210**

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. 120 2631. 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                      calculated as:                      3 signs  
 Special signs such as



### Marking Pliers

For marking spectacle frames. Inserts made to your request.

Standard:  
**120 2109**  
 1590 00

165 mm      280 g



#### Stamp for Marking Pliers No. 120 2109

- 120 2112** 1590 31 1 sign
- 120 2113** 1590 32 2 signs
- 120 2114** 1590 33 3 signs
- 120 2115** 1590 34 4 signs



#### Stamp for CLAVULUS

- 120 2629** 2125 31 1 sign
- 120 2630** 2125 32 2 signs
- 120 2631** 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:

**120 2091**

1579 00N

—| 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:

**120 2096**

1579 79N

—| 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:**  
**120 2087**  
 1577 10N

|—| 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:**  
**120 2100**  
 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:**  
**120 2082**  
 1570 00N

| 140 mm    ●▲ 140 g



### Side Cutter

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

**With plastic grip:**  
**109 2200**  
 1574 00

| 140 mm    ●▲ 145 g





## TIPS & TRICKS

### EASY MOUNTING OF SPRING HINGES

*Make Spring Hinge Mounting a Piece of Cake!*

#### Set of Spring Hinge Pliers

No. 120 1931

or separately:

#### Spring Hinge Pliers

No. 120 1925

#### Hand Tool

No. 120 1928

#### Screw Driving Tweezer

No. 120 2145

#### Spare Pins

No. 120 1929



approx. 1 minute

*This is how it works*

#### 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



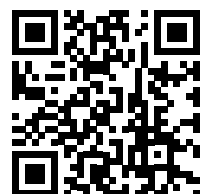
##### 5 ATTACHING



##### 6 TIGHTEN, RELEASE THE PIN




 YouTube



## 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. 120 1928, the pins No. 120 1929 and the tweezers No. 120 2145 are included.

 "Easy Mounting of Spring Hinges"  
(see page B 43)

**120 1931**  
1514 99



### Spring Hinge Pliers with Pins and Tool

**120 1925**  
1514 55

Replacement tool:

**120 1928**  
1514 56

Spare pins:

**120 1929**  
1514 58

 3 pieces

### Screw Driving Tweezer

**120 2145**  
1627 00





Design  
Award  
Winner  
2000

## Pliers Stand

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

Compatible with  
**120 2172 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

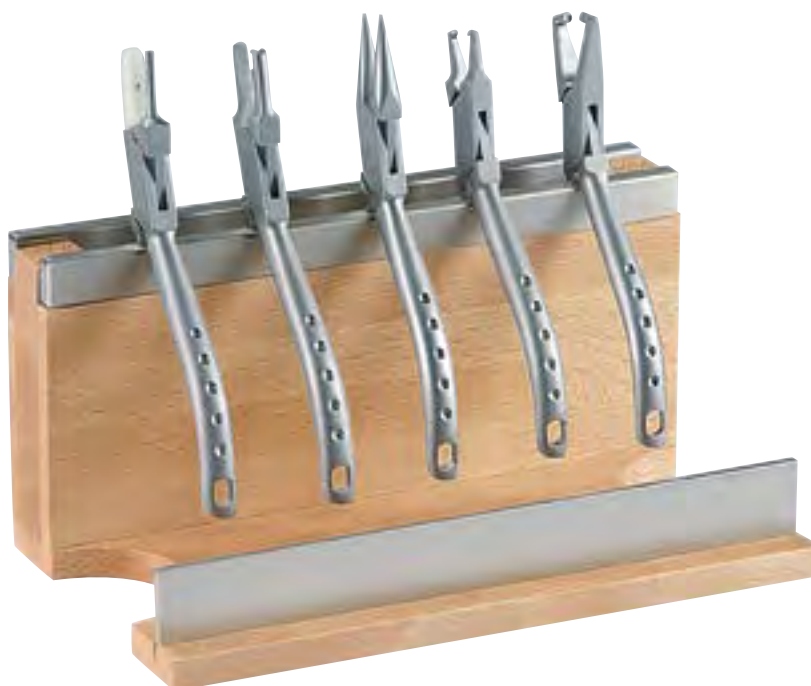
**Contents not included!**

**120 1828**

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!**

**120 1825**

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.

∅ 15 mm

**120 1841-44**  4 pairs (each 8 cm)

**120 1841**  
1468 00

Black

**120 1843**  
1468 02

Red

**120 1842**  
1468 01

Blue

**120 1844**  
1468 03

Green

**120 1845**  
1468 11


Blue

 1 m



### Assortment with all colours

**120 1846**  
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!

**120 1831**  
1461 10

 180 x 100 x 110 mm

 450 g

Matching rubber rings  
Colour: Black

**120 1832**  
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:

**120 1826**  
1460 18


For approx. 5 pliers

 120 x 125 x 120 mm

 200 g

**120 1827**  
1460 19

For approx. 10 pliers

 238 x 112 x 125 mm

 400 g





## Magnetic Tool Bar for Tools

Contents not included!

**121 1520**

1411 08

 515 x 45 x 18 mm

 435 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 120 2044, 1x 120 2024, 1x 120 2012,  
1x 120 2008, 1x 120 2156, 1x 120 2144,  
1x 120 2282, 1x 120 2855, 1x 120 2150,  
1 accessory box with nose pads and screws

**109 8943**

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.

**120 1840**

1467 00

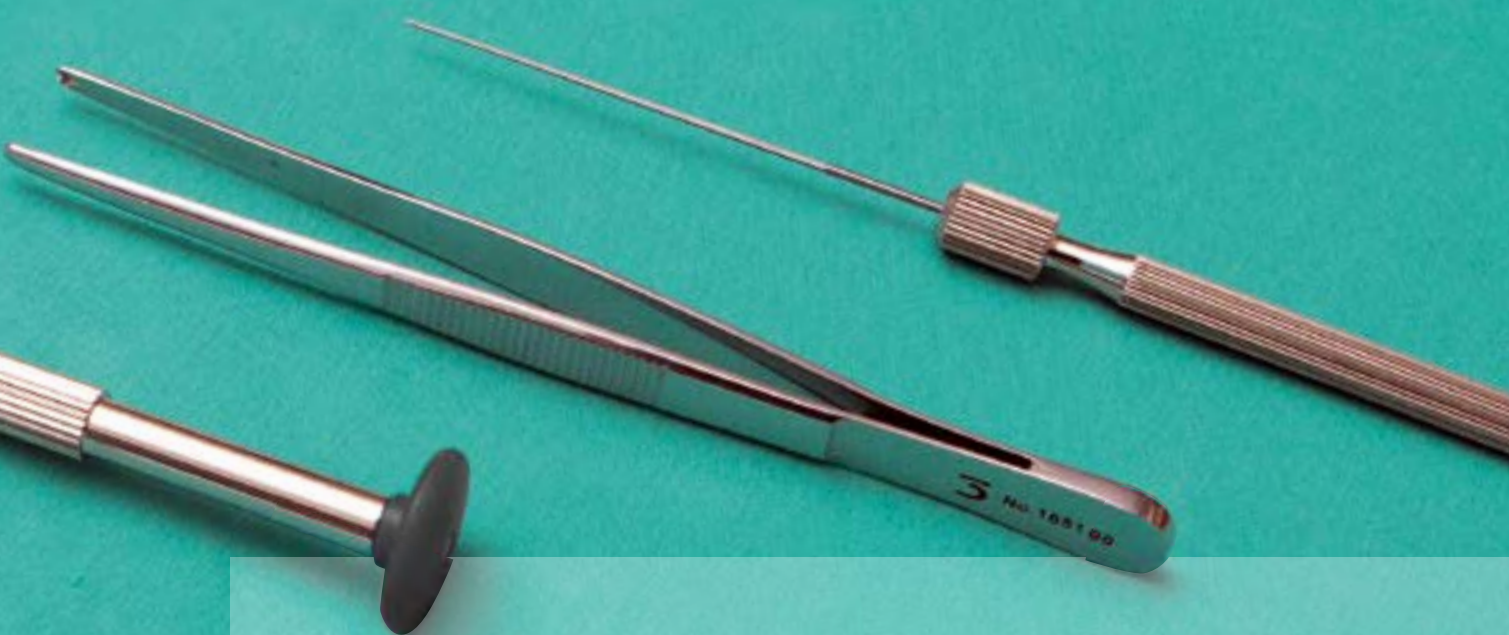
 190 x 210 x 190 mm

 430 g









# PRECISION TOOLS

for complicated procedures



- C 2 Screwdrivers & Nut Drivers
- 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

## Differences between the screwdriver lines

	B & S Profi-Line	B & S Standard Screwdriver
Feature:	Highest quality made in Germany	Reasonable price with good performance and quality
Handle:	Ergonomic B & S design made in one piece	Fluted handle area with screw cap for fixing the blade
Button:	Oval button	Round button with flattened side
Button colour coding:	Yes, for the most common screwdrivers	Yes, for the most common screwdrivers
Blade type:	Clamping blade	Wing blade
Blade:	Precision blade in professional quality	Standard quality blade
Shaft size:	2.5 mm	3.0 mm
Spare blades:	Available individually in sets of 3	Available individually in sets of 3
Assortments:	4 variants with 2 design or 2 standard stands	2 standard stand variants



## 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 nut driver
- 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

**120 2158-63**

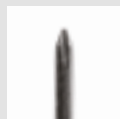
115 mm



**120 2159**

1664 01

Green



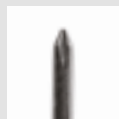
Blade width:  
⊕ 1.5 mm

Spare blade:  
**120 2270**  
1711 26

**120 2158**

1664 00

Green



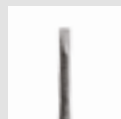
Blade width:  
⊕ 2.0 mm

Spare blade:  
**120 2269**  
1711 25

**120 2160**

1664 10

Grey



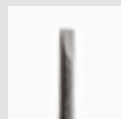
Blade width:  
⊖ 1.0 mm

Spare blade:  
**120 2264**  
1711 10

**120 2161**

1664 14

Blue



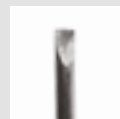
Blade width:  
⊖ 1.4 mm

Spare blade:  
**120 2265**  
1711 14

**120 2162**

1664 18

Red



Blade width:  
⊖ 1.8 mm

Spare blade:  
**120 2266**  
1711 18

**120 2163**

1664 23

Black



Blade width:  
⊖ 2.3 mm

Spare blade:  
**120 2268**  
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
- 4 slotted blades 1.0; 1.4; 1.8; 2.3 mm, 1 Phillips head 2 mm

**120 2172**

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

**120 1839**

1465 50



## Revolving Depot

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

**120 2174**

1664 61



## Plastic Depot

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

**120 2175**

1664 62



## Differences between the nut driver lines

	B & S Profi-Line	B & S Standard Nut Driver
Feature:	Highest quality made in Germany	Reasonable price with good performance and quality
Handle:	Ergonomic B&S design made in one piece	Fluted handle area with screw cap for fixing the blade
Button:	Oval button	Round button with flattened side
Button marking:	Yes, with symbol and size	Yes, with symbol and size
Blade type:	Clamping blade	Wing blade
Blade:	Precision blade in professional quality	Standard quality blade
Shaft size:	2.5 mm	3.0 mm
Spare blades:	Available individually in sets of 3	Available individually in sets of 3
Assortments:	2 standard stand variants	2 standard stand variants

## B & S Nut Drivers 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.

Quick change blade: perfectly accurate fit between blade and grip by simple clamping.

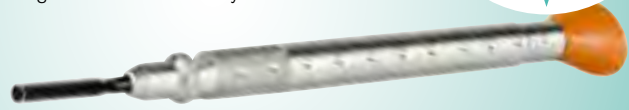
No pressure marks in your hand: ergonomic design, proven to work, offers a high level of functionality.

Don't be satisfied with anything less.



120 2164-71

115 mm



120 2164 1664 40 2.2 mm	120 2165 1664 42 2.6 mm	120 2166 1664 43 2.6 mm	120 2167 1664 44 2.2 mm	120 2168 1664 45 2.0 mm	120 2169 1664 46 2.1 mm	120 2170 1664 48 2.0 mm	120 2171 1664 49 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: <b>120 2273</b> 1711 40	Spare blade: <b>120 2274</b> 1711 42	Spare blade: <b>120 2275</b> 1711 43	Spare blade: <b>120 2276</b> 1711 44	Spare blade: <b>120 2277</b> 1711 45	Spare blade: <b>120 2278</b> 1711 46	Spare blade: <b>120 2279</b> 1711 48	Spare blade: <b>120 2280</b> 1711 49
				<b>Spare blades:</b> Shaft size 2.5 mm, blades to be clamped 3 pieces			



### Revolving Depot

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

120 2177

1664 71



### Plastic Depot

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

120 2178

1664 72



## B & S Screwdriver from the Standard Series

- Blade changing support for screwdriver and nut driver
- 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



120 2190-95 | 110 mm

120 2191 1682 01 Green	120 2190 1682 00 Green	120 2192 1682 10 Grey	120 2193 1682 14 Blue	120 2194 1682 18 Red	120 2195 1682 20 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
Spare blade: <b>120 2202</b> 1682 46	Spare blade: <b>120 2201</b> 1682 45	Spare blade: <b>120 2196</b> 1682 30	Spare blade: <b>120 2197</b> 1682 34	Spare blade: <b>120 2198</b> 1682 38	Spare blade: <b>120 2199</b> 1682 40
					<b>Spare blades:</b> Shaft size 3.0 mm, wing blade
					3 pieces

## Revolving Depot

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

120 2204  
1682 61



## Plastic Depot

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

120 2205  
1682 62



## B & S Nut Driver from the Standard Series

- Blade changing support for screwdriver and nut driver
- 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



120 2206-13 | 110 mm

120 2206 1682 70 2.2 mm	120 2207 1682 72 2.6 mm	120 2208 1682 73 2.6 mm	120 2209 1682 74 2.2 mm	120 2210 1682 75 2.0 mm	120 2211 1682 76 2.1 mm	120 2212 1682 78 2.0 mm	120 2213 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: <b>120 2214</b> 1682 80	Spare blade: <b>120 2215</b> 1682 82	Spare blade: <b>120 2216</b> 1682 83	Spare blade: <b>120 2217</b> 1682 84	Spare blade: <b>120 2218</b> 1682 85	Spare blade: <b>120 2219</b> 1682 86	Spare blade: <b>120 2220</b> 1682 88	Spare blade: <b>120 2221</b> 1682 89
				<p><b>Spare blades:</b> Shaft size 3.0 mm, wing blade 2 pieces</p>			



## Revolving Depot

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

120 2222  
1682 91



## Plastic Depot

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

120 2223  
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

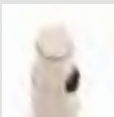


120 2229-32 | 110 mm

### 120 2229

1684 13

Hexagon 1.3



Spare blade:

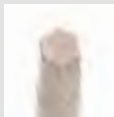
**120 2239**

1684 63

### 120 2230

1684 15

Hexagon 1.5



Spare blade:

**120 2240**

1684 65

### 120 2231

1684 20

Hexagon 2.0



Spare blade:

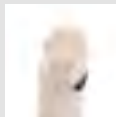
**120 2241**

1684 70

### 120 2232

1684 21

Hexagon 2.1



Spare blade:


**120 2242**

1684 71



**Spare blades:**

Shaft size 3.0 mm, wing blade

 3 pieces







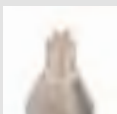
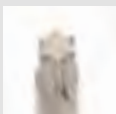

You will find our Torx screws  
on page F 38.

## 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



120 2233-37 | 110 mm

120 2233 1684 32 Torx 2	120 2234 1684 33 Torx 3	120 2235 1684 34 Torx 4	120 2236 1684 35 Torx 5	120 2237 1684 36 Torx 6	
					
					
Spare blade: <b>120 2243</b> 1684 82	Spare blade: <b>109 6714</b> 1684 83	Spare blade: <b>109 6715</b> 1684 84	Spare blade: <b>109 6716</b> 1684 85	Spare blade: <b>109 6717</b> 1684 86	<b>Spare blades:</b> Shaft size 3.0 mm, wing blade
					 3 pieces

## Torx Screwdriver Set

- Grips of the standard 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

120 2238  
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

**120 2179** | 119 mm | 35 g  
1666 00



 Suitable replacement blades  
No. 120 2264–66 and 120 2268–70  
can be found on page C 3.


## 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

**120 2188** | 119 mm | 31 g  
1678 00



 Suitable replacement blades  
No. 120 2264–66 and 120 2268–70  
can be found on page C 3.


## Screwdriver with Blade Storage

Same design as No. 120 2188, but with one blade only.  
Shaft size: 2.5 mm

**Blade width:** ● 1.8 mm

**120 2248** | 119 mm | 21 g  
1690 00



 Suitable replacement blade  
No. 120 2266  
can be found on page C 3.


## 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


**120 2282** | 115 mm | 30 g  
1717 00

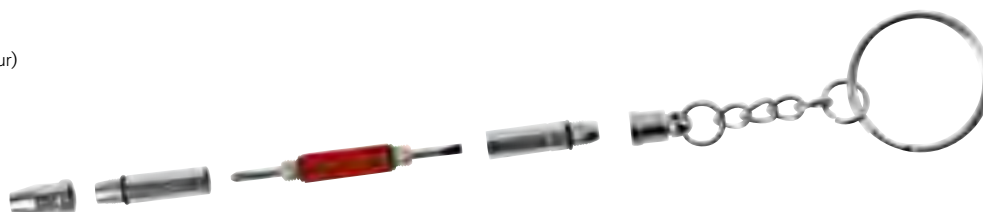


 Suitable replacement blades  
No. 120 2264–66 and 120 2268–70  
can be found on page C 3.

## Small Metal Screwdriver

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

**120 2356**  10 pieces (2 per colour)  
1798 16













## Counter Display

- With 10 small screwdriver No. 120 2356, with 5 functions
- Dimensions: DIN A4

**120 2358**  
1798 56



## Spare Blades (without illustration)

Blade width	Type	Kind of blade	Available for	Order No.	
1.0 mm		Blade	1662 10*, 1680 10*, 1700 10*	<b>120 2260</b> 1693 10	3 pieces
1.5 mm		Blade	1662 15*, 1680 15*, 1700 15*	<b>120 2261</b> 1693 15	3 pieces
1.8 mm		Blade	1662 18*, 1680 18*, 1700 18*	<b>120 2262</b> 1693 18	3 pieces
2.3 mm		Blade	1662 23*, 1680 23*, 1700 23*, 120 2294	<b>120 2263</b> 1693 23	3 pieces
1.0 mm		Blade	1669 .. *	<b>120 2183</b> 1669 10	2 pieces
1.4 mm		Blade	1669 .. *	<b>120 2184</b> 1669 14	2 pieces
1.8 mm		Blade	1669 .. *	<b>120 2185</b> 1669 18	2 pieces
2.0 mm		Crossblade	1669 .. *	<b>120 2187</b> 1669 25	2 pieces
2.3 mm		Blade	1682 23*, 1683 23*	<b>120 2200</b> 1682 43	3 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 Nut Drivers with the most used nut driver blades made of high quality steel. The stop inside the blade which is typically for B&S Nut Drivers prevents the nut from annoyingly "disappearing" into the shaft.

### Nut driver Set

#### Content 7 Nut Drivers:



No. 120 2334; 120 2336; 120 2338;  
120 2340; 120 2342; 120 2346 and  
120 2350

**120 2333**  
1741 15

 13,5 x 2,4 x 12 cm



#### Single available:

 100 mm  15 g

**120 2334**

1742 00

○ 2.6 mm

**120 2336**

1743 00

⊗ 2.6 mm

**120 2338**

1744 00

○ 2.2 mm

**120 2340**

1745 00

⊗ 2.0 mm

**120 2342**

1746 00

⊗ 2.1 mm

**120 2344**

1747 00

⊖ 2.8 mm

**120 2346**

1748 00

○ 2.0 mm

**120 2348**

1749 00

○ 2.3 mm

**120 2350**

1767 00

⊗ 2.2 mm



Grip No. 2

Big hex nuts



Grip No. 3

Big star nuts,  
6 points



Grip No. 4

Small  
hex nuts



Grip No. 5

Big star nuts,  
4 points



Grip No. 6

Star nuts,  
6 points,  
for the most  
common nuts



Grip No. 7

Slotted nuts



Grip No. 8

Hex socket  
star type,  
6 points



Grip No. 9

Hexagonal,  
for dome nuts  
120 1312-14



Grip No. 0


Star nuts,  
6 points, for  
big star nuts

### Nut driver Set

#### Content 5 Nut Drivers:

No. 120 2336; 120 2338; 120 2340; 120 2342  
and 120 2346

**120 2332**  
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)

**120 2298**  
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

**120 2257** | 119 mm | 25 g  
1691 00



### Spare Blades

Blade width 1.3 mm

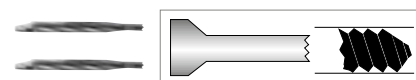
**120 2258**

1691 13

Blade width 1.5 mm

**120 2259**

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 nut driver:** Inner diameter: 2,2 mm

**1 star nut driver:** Inner diameter: 2,1 mm

**120 2294**

1723 00



Suitable replacment blades  
No. 120 2264–66 and 120 2268–70  
can be found on page C 3.

## “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

**120 2296**

1723 20



## 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 nut driver blades (hexagon):**

Inner diameter: 2,0, 2,3 and 2,5 mm

**120 2301**

1728 00



## Spare Blade Set

To metal stand “Third Hand” No. 120 2301.

Containing 5 blades

**120 2302**

1728 01



## 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

**108 2029**  
1729 00

∅ Base x height: 80 x 80 mm

••• 300 g



### Spare Rubber Ring (without illustration)

**108 2030**  
1729 01

📦 2 pieces

### Optician's Anvil

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

**120 2309**  
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

**120 2145**  
1627 00

📏 130 mm

••• 30 g



"Easy Mounting of Spring Hinges"  
(see page B 43)

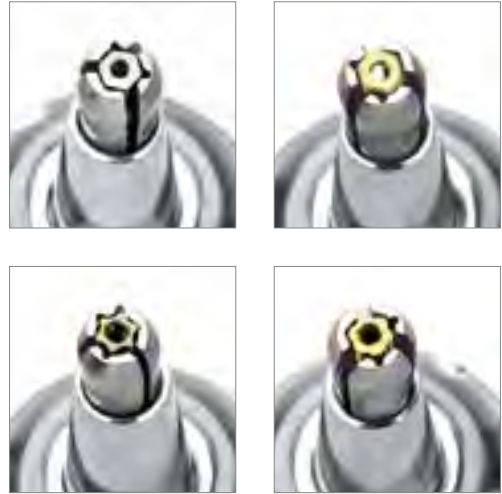




### Nut Gripper

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

**120 2150** | 100 mm | 35 g  
1639 00



### Gripper

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

**120 2148** | 75 mm | 180 g  
1636 00



### Tweezer – Push-in Nose Pads

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

**120 2144** | 100 mm | 15 g  
1626 00



You will find our pliers No. 120 1886 and 120 1888 on page B 18.

### Tweezer – Thin Pointed

- With thin pointed tips, stainless steel

**120 2146** | 110 mm | 17 g  
1631 00



### Tweezer – Pointed

- Pointed, nickel plated

**120 2137** | 110 mm | 18 g  
1621 00



### Titanium Soldering Tweezer

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

**120 2141** | 160 mm | 15 g  
1623 10



### Solder Tweezer

- With insulated grips, polished steel

**120 2142** | 160 mm | 35 g  
1624 00



## 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

**120 2157** | 110 mm | 11 g  
1653 00



### The Classic

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

**120 2156** | 130 mm | 30 g  
1651 00



### Pointed Tip

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

**120 2147** | 105 mm | 10 g  
1634 00



### Cross Tweezer

- To start rotating the screw into the thread

**120 2143** | 155 mm | 32 g  
1625 00



### Screw Holder with Locking Mechanism

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


**109 6135** | 135 mm | 30 g  
1637 00



## Riveting Hammer

- Gunmetal finish, square-shaped head, wooden handle, rounded corners

**120 2353**  
1781 10


|—| 260 mm  80 g



## Riveting Hammer

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

**120 2352**  
1772 00


|—| 240 mm  100 g



## Trident Scraper

- Conical, with handle

**120 2598**  
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

**120 2599**  
2072 00


|—| 95 mm  10 g



## Groove Scraper

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

**120 2600**  
2073 10


|—| 145 mm  40 g



## Glass Cutter "Silberschnitt"®

- Superior quality "Made in Germany"

**120 3051**  
2634 00


130 mm  25 g



## Cutting Spoon

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

**120 3052**  
2637 00

150 mm  30 g



## Universal Cutting Wheel

- Superior quality "Made in Germany"
- For glass cutter No. 120 3051 and cutting spoon No. 120 3052

**120 2719**  
2239 00

∅ 4.5 mm  12 pieces



Illustration enlarged



## Scissors for plastic

- Multiple purpose scissors with plastic covered handles for easy cutting of patterns.
- One sided toothed cut (serrated edge)

**121 0105** | 155 mm | 74 g  
1607 00



## Small Scissors

- With straight blades and screwed joint

**120 2136** | 60 mm | 18 g  
1614 00



## Scissor

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

**120 2135** | 200 mm | 90 g  
1613 10



## 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

**120 2126** | 150 mm | 15 g  
1602 10



## Spare Blades for No. 120 2126

**120 2128** | 35 mm | 3 pieces  
1602 15



## Scalpel Set

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

**120 2132** | 160 x 40 x 40 mm | 100 g  
1604 01



## Reamers

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


**120 2578-86**  3 pieces

Order No.	Ø	Order No.	Ø
<b>120 2578</b> 2051 31	1.0 mm	<b>120 2583</b> 2051 36	1.7 mm
<b>120 2579</b> 2051 32	1.1 mm	<b>120 2584</b> 2051 37	1.9 mm
<b>120 2580</b> 2051 33	1.2 mm	<b>120 2585</b> 2051 38	2.0 mm
<b>120 2581</b> 2051 34	1.3 mm	<b>120 2586</b> 2051 39	2.2 mm
<b>120 2582</b> 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

**120 2587**  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

**120 3104**  11 g  12 pieces



## Reamer Assortment

- 5-sided reamers, fine grade **without handle**, **with** shaft and **with** holder
- Contents:** No. 120 2578; 120 2579; 120 2580; 120 2581; 120 2582; 120 2583; 120 2584; 120 2585 and 120 2586

**120 2576**  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



**120 2432-41**  3 pieces



Illustration enlarged

## Screw Tap Handle

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

 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	<b>120 2432</b> 1962 08	<b>120 2314</b> 1736 08
M 1.00 mm	1.45 mm	<b>120 2433</b> 1962 10	<b>120 2316</b> 1736 10
M 1.10 mm	1.45 mm	<b>120 2434</b> 1962 11	<b>120 2318</b> 1736 11
M 1.20 mm	1.45 mm	<b>120 2435</b> 1962 12	<b>120 2320</b> 1736 12
M 1.30 mm	1.45 mm	<b>120 2436</b> 1962 13	<b>120 2322</b> 1736 13
M 1.40 mm	1.45 mm	<b>120 2437</b> 1962 14	<b>120 2324</b> 1736 14
M 1.50 mm	1.75 mm	<b>120 2438</b> 1962 15	<b>120 2326</b> 1736 15
M 1.60 mm	1.95 mm	<b>120 2439</b> 1962 16	<b>120 2328</b> 1736 16
M 1.70 mm	1.95 mm	<b>120 2440</b> 1962 17	<b>120 2330</b> 1736 17
M 1.80 mm	2.00 mm	<b>120 2441</b> 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. 120 2283 and 1 empty space

**120 2442**  
1980 00



## Screw Tap Assortment

- In plastic box
- **Contents:** 3 screw taps of each No. 120 2432; 120 2433; 120 2435; 120 2436; 120 2437 and 1 tool holder No. 120 2592

**120 2444**  
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

**120 2286**  
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

**120 2287**  
1718 12

∅ Outer: 80 mm

▲ 26 g



## Mandrel

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

**120 2283**  
1718 00

| 105 mm

▲ 10 g



## Spare Mandrel (without illustration)

- For No. 120 2283

**120 2285**  
1718 01





## TIPS & TRICKS

### HENRY – A LITTLE HELPER IN MANY SITUATIONS

### *Triple Protection against Scratches*

#### Lens Protection Henry

made of Silicone

No. 109 2360

#### Screwdrivers for Professionals

used for example:

No. 120 2162

#### Precision File

No. 120 2395

#### Side Cutter

No. 120 2091



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



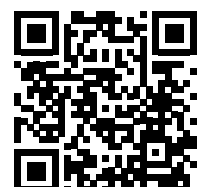
##### 2 CUT OFF



##### 3 LEVEL WITH A FILE



 YouTube




## 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

**109 2360**  
2272 00

 60 x 80 mm

 1 g


 2 pieces



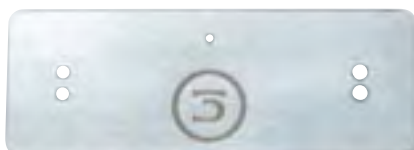
## Lens Protection Shim Plate

- 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

**109 6680**  
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 dismantling of the frame
- Suitable to remove remnants from PC lenses after the edging process

**109 6681**  
2269 10

 50 x 11 mm

 1 g




**TIPS & TRICKS**
**NYLON LINER TOOL**

*Finally the Threading is Fun*

**Nylon Liner Tool**

No. 109 5079

**Tweezer – Thin Pointed**

No. 120 2146

**Nylon Thread Hook**

No. 120 2288

**Small Scissors**

No. 120 2136



approx. 5 minutes each

*This is how it works*

**1 TAKE OFF**

**2 REMOVE**

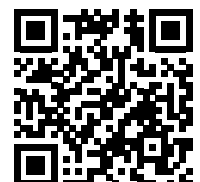
**3 THREAD**

**4 SET IN**

**5 CUT TO SIZE**

**6 THREAD**

**7 INSERT**


 YouTube


## 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

**109 5079**

1365 00



You will find our nylon threads on page F 81.

## Nylon Thread Hook

- For easy assembly of lenses into supra frames

**120 2288**

1719 00

105 mm

13 g



## 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

**120 2753**

2267 10

Blue

∅ 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. 109 7803

**For screws with 1.4 mm thread size**  
No. 109 7804



approx. 30 seconds

*This is how it works*

**1 MOUNTING**

**2 TURN AROUND**

**3 ATTACHING**


**4 CUTTING**

**5 DONE**


 YouTube




## Works as a Nut Driver and Screw Cutter in One Tool

**109 7803-04** | 70 mm  6 g



**109 7803**   
2268 00

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

**109 7804**   
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



**120 2751** | 71 mm  7 g

## Tool Kit for Rimless Frames

- Practical tool kit for rimless frames
- Consisting of No. 109 7803 and 109 7804 fitting tool for 1.2 mm and 1.4 mm thread and No. 120 2750 drilled hole reamer

**120 2758**  
2268 50



## Drilled Hole Reamer

- Suitable for tool holders No. 120 2596, 120 2595 and 120 2593
- Shaft size: **1.6 mm**


**120 2750**  
2266 10



## Double Hand Miller with Hinge Miller and Screw End Miller

- To work with hinge rolls and screw ends

**120 2709**  
2216 00


|—| 122 mm  5 g



## Duplex Hinge and Temple Miller

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

**120 2711**  
2220 04


|—| 110 mm  2 g



## Screw End Miller

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

**120 2765**  
2271 25



|—| 110 mm  2 g



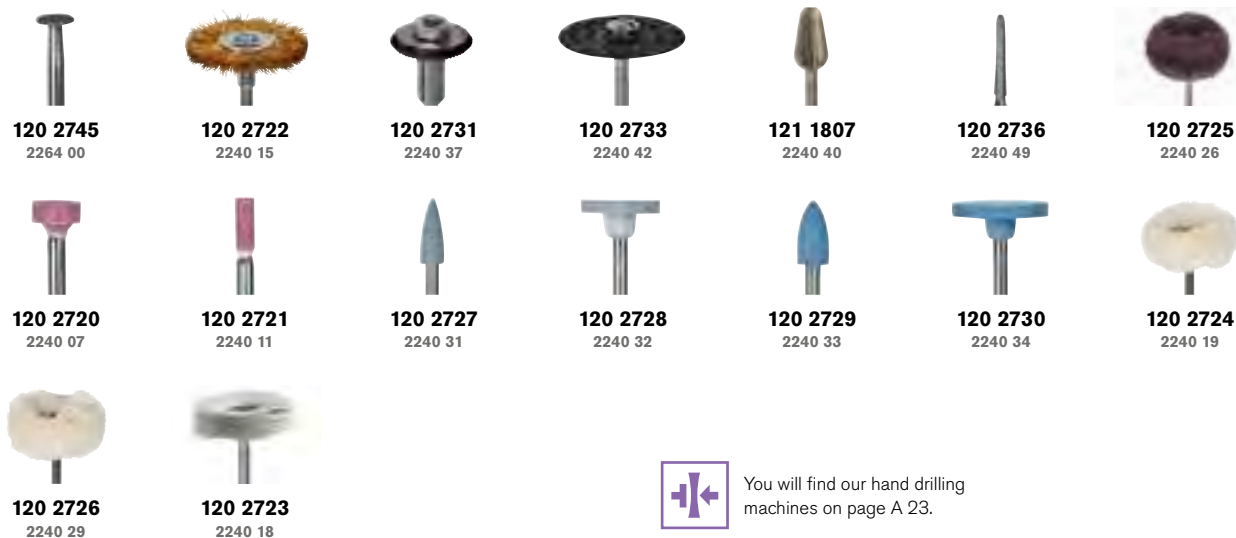
The tools No. 120 2710 (page C 36), 120 2709 and 120 2765 (page C 30) are for processing common German Silver screws and brass screws. Processing steel screws will immediately damage the tool. Improper usage voids all guarantees

## 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, 1 trimming wheel
- In practical box
- Shaft size: 2.34 mm except  
No. 120 2731 = shaft size: 3.0 mm

**120 2738**  68 x 58 x 66 mm  85 g

2240 57



You will find our hand drilling machines on page A 23.



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	<b>120 2720</b> 2240 07
Grinder, cylindric	To grind unhardened and alloyed steel	2.5 x 6.5	20,000–30,000	<b>120 2721</b> 2240 11
Brass wire brush	To rework soldering joints	21 x 1.8	10,000	<b>120 2722</b> 2240 15
Silicone impregnated muslin wheel	To polish plastic materials	Ø 22	5,000	<b>120 2723</b> 2240 18
Wool buffing wheel	To polish plastic and ceramic	Ø 20	8,000	<b>120 2724</b> 2240 19
Flannel buffing wheel	To polish plastic and metal	Ø 20	5,000	<b>120 2726</b> 2240 29
Silicone burnisher, middle, pin	To work on metal, plastic and ceramic	4.5 x 12	7,000–10,000	<b>120 2727</b> 2240 31
Silicone burnisher, middle, wheel	To work on metal, plastic and ceramic	11 x 2	7,000–10,000	<b>120 2728</b> 2240 32
Silicone burnisher, fine, pin	For high gloss on metal alloy	5 x 10	7,000–10,000	<b>120 2729</b> 2240 33
Silicone burnisher, fine, wheel	For high gloss on metal alloy	14 x 2.5	7,000–10,000	<b>120 2730</b> 2240 34
Groove miller, facet	To rework frame grooves	17 x 2.8	2,000–4,000	<b>120 2731</b> 2240 37
Steel miller, bud shape	To work on metal, plastic and wood	Ø 6	8,000–12,000	<b>121 1807</b> 2240 40
Cutting wheel (10 pieces) inclusive mandrel	To cut metal and plastic	22 x 0.8	30,000	<b>120 2733</b> 2240 42
Diamond grinder, conical	For fine grinding and planing	Ø 1.6	30,000	<b>120 2736</b> 2240 49
Diamond miller	To groove rims of lenses	5 x 0.6	15,000–18,000	<b>120 2745</b> 2264 00
Trimming wheel, fine	For finishing metal, plastic and wood	Ø 25	10,000	<b>120 2725</b> 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. 120 2566 (please see below)

**120 2554-65**  2 pieces

Order No.	Size
<b>120 2554</b> 2038 05	0.5 mm
<b>120 2555</b> 2038 06	0.6 mm
<b>120 2556</b> 2038 07	0.7 mm
<b>120 2557</b> 2038 08	0.8 mm
<b>120 2558</b> 2038 09	0.9 mm
<b>120 2559</b> 2038 10	1.0 mm
<b>120 2560</b> 2038 11	1.1 mm
<b>120 2561</b> 2038 12	1.2 mm
<b>120 2562</b> 2038 13	1.3 mm
<b>120 2563</b> 2038 14	1.4 mm
<b>120 2564</b> 2038 15	1.5 mm
<b>120 2565</b> 2038 16	1.6 mm



## Spiral Drill, HSS

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

**120 2515-29**  3 pieces



Order No.	Shaft size	Size
<b>120 2515</b> 2032 05	0.5 mm	0.5 mm
<b>120 2516</b> 2032 06	0.6 mm	0.6 mm
<b>120 2517</b> 2032 07	0.7 mm	0.7 mm
<b>120 2518</b> 2032 08	0.8 mm	0.8 mm
<b>120 2519</b> 2032 09	0.9 mm	0.9 mm
<b>120 2520</b> 2032 10	1.0 mm	1.0 mm
<b>120 2521</b> 2032 11	1.1 mm	1.1 mm
<b>120 2522</b> 2032 12	1.2 mm	1.2 mm
<b>120 2523</b> 2032 13	1.3 mm	1.3 mm
<b>120 2524</b> 2032 14	1.4 mm	1.4 mm
<b>120 2525</b> 2032 15	1.5 mm	1.5 mm
<b>120 2526</b> 2032 16	1.6 mm	1.6 mm
<b>120 2527</b> 2032 17	1.7 mm	1.7 mm
<b>120 2528</b> 2032 18	1.8 mm	1.8 mm
<b>120 2529</b> 2032 20	2.0 mm	2.0 mm



## HSS Spiral Drill Set

- 12 high quality spiral drills No. 120 2554-65
- **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



**120 2566**  
2038 50

 124 x 21 x 113 mm  115 g

## 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

**120 2530**  
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**

### 120 2550-53

Order No.	Size
<b>120 2550</b> 2037 10	<b>1.0 mm</b>
<b>120 2551</b> 2037 12	<b>1.2 mm</b>
<b>120 2552</b> 2037 14	<b>1.4 mm</b>
<b>120 2553</b> 2037 16	<b>1.6 mm</b>



The drills No. 120 255 . are provided with a hard metal top.  
We recommend using less pressure and cooling.

## 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**




**120 2735**  
2240 45



## Hard Metal Drill for Plastic Lenses

- Polished surface 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**



**120 2531-45**  38 mm

Order No.	Size	Order No.	Size
<b>120 2531</b> 2035 08	<b>0.8 mm</b>	<b>120 2539</b> 2035 16	<b>1.6 mm</b>
<b>120 2532</b> 2035 09	<b>0.9 mm</b>	<b>120 2540</b> 2035 17	<b>1.7 mm</b>
<b>120 2533</b> 2035 10	<b>1.0 mm</b>	<b>120 2541</b> 2035 18	<b>1.8 mm</b>
<b>120 2534</b> 2035 11	<b>1.1 mm</b>	<b>120 2542</b> 2035 19	<b>1.9 mm</b>
<b>120 2535</b> 2035 12	<b>1.2 mm</b>	<b>120 2543</b> 2035 20	<b>2.0 mm</b>
<b>120 2536</b> 2035 13	<b>1.3 mm</b>	<b>120 2544</b> 2035 21	<b>2.1 mm</b>
<b>120 2537</b> 2035 14	<b>1.4 mm</b>	<b>120 2545</b> 2035 22	<b>2.2 mm</b>
<b>120 2538</b> 2035 15	<b>1.5 mm</b>		



## 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

**120 2549**  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**

**120 2700-07**  38 mm

Order No.	Drillbit length	Miller size
<b>120 2700</b> 2212 08	<b>8.0 mm</b>	<b>0.8 mm</b>
<b>120 2701</b> 2212 09	<b>9.0 mm</b>	<b>0.9 mm</b>
<b>120 2702</b> 2212 10	<b>9.0 mm</b>	<b>1.0 mm</b>
<b>120 2703</b> 2212 11	<b>9.0 mm</b>	<b>1.1 mm</b>
<b>120 2704</b> 2212 12	<b>9.0 mm</b>	<b>1.2 mm</b>
<b>120 2705</b> 2212 13	<b>9.0 mm</b>	<b>1.3 mm</b>
<b>120 2706</b> 2212 14	<b>9.0 mm</b>	<b>1.4 mm</b>
<b>120 2707</b> 2212 16	<b>10.0 mm</b>	<b>1.6 mm</b>



double cut



You will find our drilling machines starting page A 20.

## 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 for example article 120 2531 and 120 2700

**120 2547**  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**



**120 2689-93**  3.14 mm

Order No.	Drillbit length	Size
<b>120 2689</b> 2210 08	<b>6.0 mm</b>	<b>0.8 mm</b>
<b>120 2690</b> 2210 10	<b>7.0 mm</b>	<b>1.0 mm</b>
<b>120 2691</b> 2210 12	<b>7.0 mm</b>	<b>1.2 mm</b>
<b>120 2692</b> 2210 14	<b>8.0 mm</b>	<b>1.4 mm</b>
<b>120 2693</b> 2210 16	<b>8.0 mm</b>	<b>1.6 mm</b>



## 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

**120 2694**  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**


**120 2572-73**

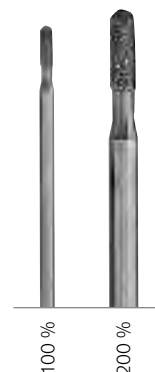
Order No.	Drillbit length	Size
<b>120 2572</b> 2044 10	<b>7.0 mm</b>	<b>1.0 mm</b>
<b>120 2573</b> 2044 12	<b>9.0 mm</b>	<b>1.2 mm</b>



## 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**

**120 2742**  1.6 mm  
2260 16



## Diamond Wheel

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

**120 2744**  
2263 00



## Diamond Miller

- For milling of lenses
- Shaft dimensions: **5.0 x 0.6 mm**
- Working speed: **approx. 15,000 to 18,000 rpm**
- Shaft size: **2.35 mm**

**120 2745**  
2264 00

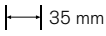


Diamond drill No. 120 2742 plus diamond wheel No. 120 2744 and 120 2745 are high speed tools and should be operated with maximum speed. The optimum speed is between 15,000 and 18,000 rpm. Use **only water** as coolant. For minimum wear and tear and best performance apply low pressure only. Work in intervals 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**

**120 2710** 2217 03 



## Double Cone Miller

- To mill a notch for rhinestones
- For deburring drilling holes in plastic lenses
- Can also be used for polycarbonate and Trivex
- Shaft size: **2.34 mm**

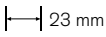
**120 2746-49** 



Order No.	Miller size
<b>120 2746</b> 2265 19	<b>1.9 mm</b>
<b>120 2747</b> 2265 23	<b>2.3 mm</b>
<b>120 2748</b> 2265 27	<b>2.7 mm</b>
<b>120 2749</b> 2265 40	<b>4.0 mm</b>

## Core Miller

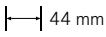
- For premilling of hidden hinge bowls
- Miller size: **5.0 mm**
- Shaft size: **3.0 mm**

**120 2718** 2237 50 



## 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**

**121 1806** 2215 19 



## 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**

**120 2741** 2243 00



## Hinge Bowl Miller



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

**120 2713-17** 



## Long Hole Miller

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

**120 2695-99**   2 pieces

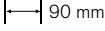



Order No.	Miller size
<b>120 2713</b> 2236 30	<b>3,0 mm</b>
<b>120 2714</b> 2236 35	<b>3,5 mm</b>
<b>120 2715</b> 2236 40	<b>4,0 mm</b>
<b>120 2716</b> 2236 45	<b>4,5 mm</b>
<b>120 2717</b> 2236 50	<b>5,0 mm</b>

Order No.	Drillbit length	Miller size
<b>120 2695</b> 2211 08	<b>3.5 mm</b>	<b>0.8 mm</b>
<b>120 2696</b> 2211 10	<b>4.0 mm</b>	<b>1.0 mm</b>
<b>120 2697</b> 2211 12	<b>4.2 mm</b>	<b>1.2 mm</b>
<b>120 2698</b> 2211 14	<b>4.5 mm</b>	<b>1.4 mm</b>
<b>120 2699</b> 2211 21	<b>5.1 mm</b>	<b>2.1 mm</b>

## Tool Holder

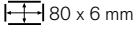

- With plastic handle and revolving plastic knob, especially for taps
- Clamping: **1.5 to 2.0 mm**

**120 2592**  90 mm  10 g  
2062 00



## Reamer Holder

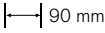

- Brass, nickel-plated
- Clamping: **1.0 to 2.0 mm**

**120 2593**  80 x 6 mm  15 g  
2065 00



## Tool Holder

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

**120 2595**  90 mm  25 g  
2068 00



## 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**

**120 2596**  100 mm  37 g  
2069 00

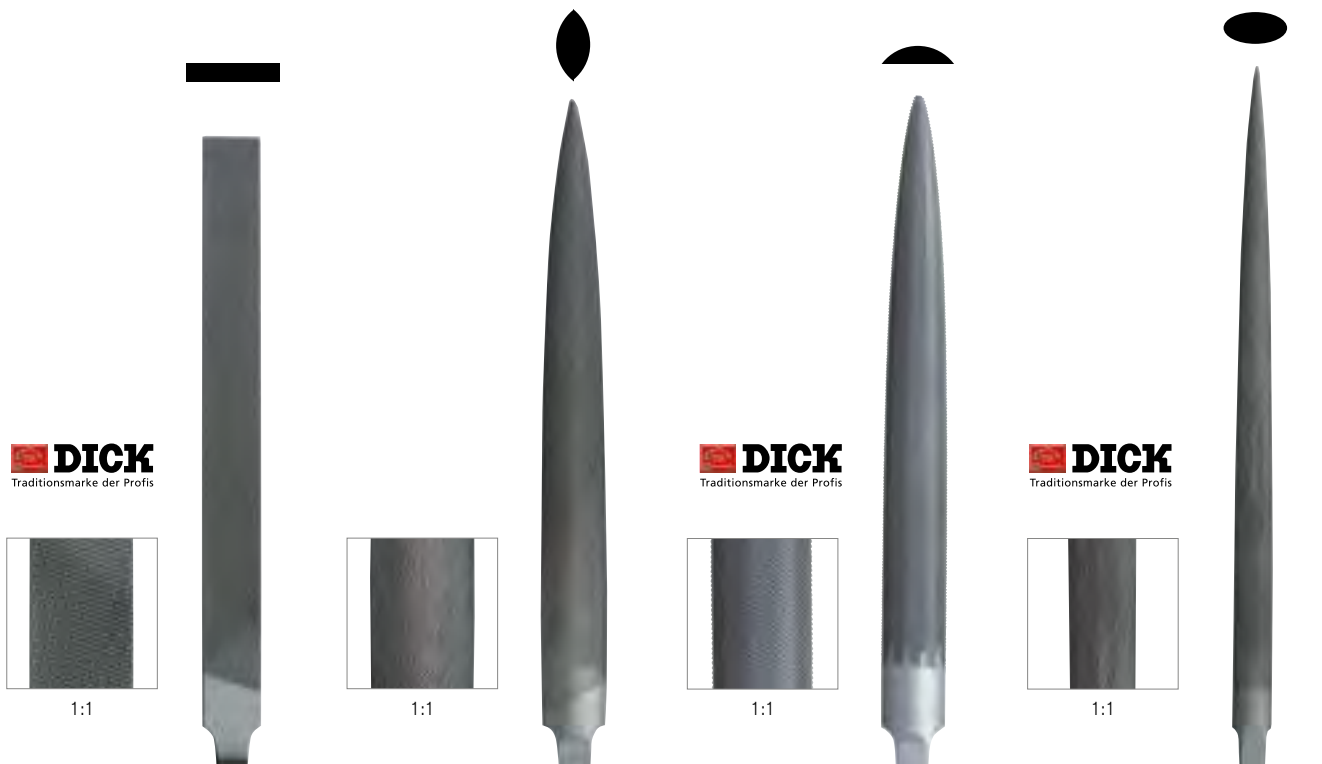


## Precision Tool Holder

- 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**

**120 2597**  100 mm  34 g  
2070 00





### 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. 120 2310 and 120 2312

**130 1411**  
1865 00

170 x 12 mm

40 g

3.2 mm

### Precision File Lenticular

- Flat oval type with shaft
- Tapered pointed tip
- Cut: 2
- Length of cut: 125 mm
- Suitable handles: No. 120 2310 and 120 2312

**120 2396**  
1870 12

175 x 15 mm

38 g

### Precision File Half-round

- With shaft and pointed tip
- Length of cut: 125 mm
- Suitable handles: No. 120 2310 and 120 2312

**120 2397** Cut: 1  
1878 01

**120 2398** Cut: 2  
1878 02

175 x 13 mm

38 g

### Precision File Oval

- Evenly vaulted
- With rounded edges
- For plastic material
- Cut: 3
- Length of cut: 150 mm
- Suitable handles: No. 120 2310 and 120 2312

**120 2399**  
1882 13

205 x 9 mm

33 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



**120 2395**  
1868 00

188 x 10 mm

32 g

2.8 mm



For cleaning we recommend our cleaning brush for files No. 120 4072 on page C 39.

**DICK**  
Traditionsmarke der Profis



**DICK**  
Traditionsmarke der Profis



1:1



1:1



1:1



### Raspel Half-round

- For working plastics
- With specially fine rasp cut No. 5
- Length of cut: 150 mm
- Suitable handles: No. 120 2310 and 120 2312

**120 2400**  
1899 00

200 x 16 mm 55 g

### Raspel Half-round

- For working plastics
- With rasp cut No. 5
- Length of cut: 135 mm
- Delivered with plastic handle

**130 0688**  
1898 00

260 x 15 mm 118 g

### Precision File Flat, Large

- With two different strokes: Cut 1 = rough and cut 3 = semi fine
- One third of the one narrow side with stroke
- Length of cut: 120 mm
- Delivered with plastic handle

**130 0684**  
1866 00

240 x 15 mm 79 g

### Filing Brush

- Flat
- Coated surface: 105 mm

**120 4072**  
3516 00

250 x 35 mm

### Raspel and Precision File as assortment

consisting of **130 0688** and **130 0684**

**130 1434**



### File Handles

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



**120 2311** 1732 90 90 mm 30 g

**120 2310** 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



**120 2312** 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



**120 2313** 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

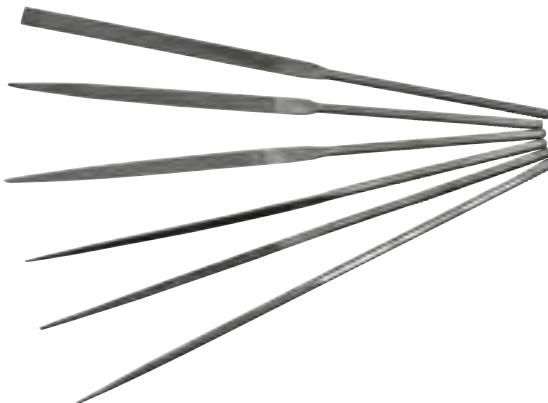
**120 2382** | 140 mm | 6 pieces  
1849 60



## 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

**120 2380** | 100 mm | 6 pieces  
1848 50



## 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

**120 2381** | 140 mm | 12 pieces  
1849 00



## 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

**120 2360** | 140 mm | 10 pieces  
1801 50



## Needle Files

- Cut: 2

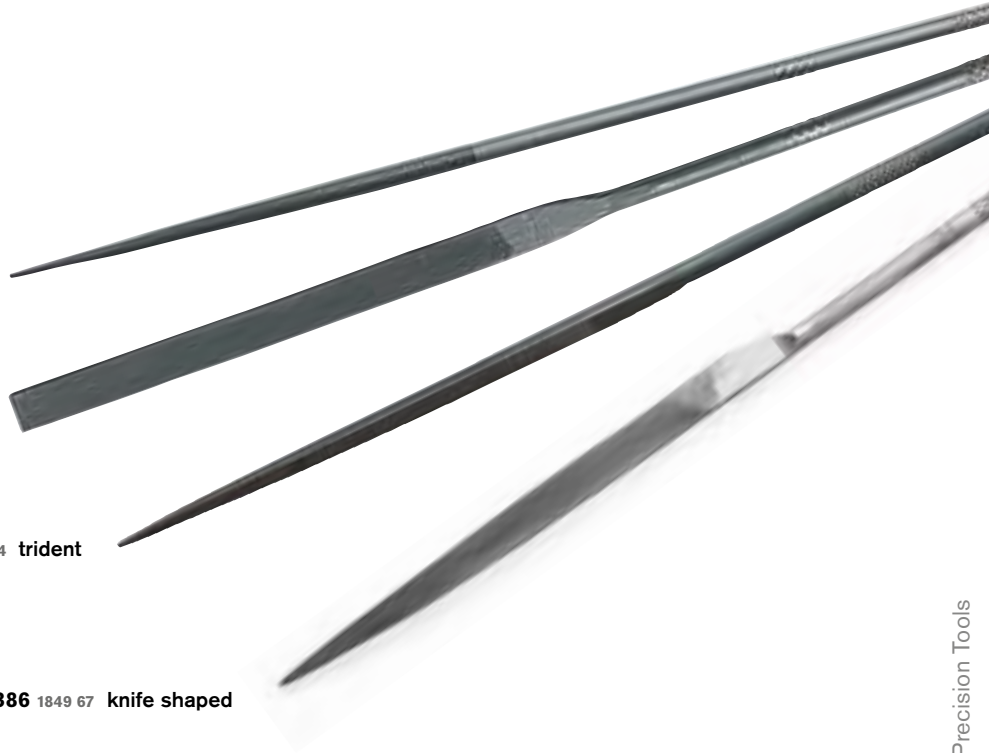
**120 2383-86**  140 mm  2 pieces

**120 2383** 1849 61 round

**120 2384** 1849 62 flat

**120 2385** 1849 64 trident


**120 2386** 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

**109 6652**  
1860 15

**120 2388**  1.1 mm  
1853 10  
**120 2389**  1.3 mm  
1853 13  
**120 2390**  1.6 mm  
1853 16

**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**

**120 2609** 1.5 kg  
2106 00

**Plastic Jaws** (without illustration)

- Suitable for No. 120 2609

**120 2612** 1 pair  
2117 01

**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**

**120 2611** 2 kg  
2107 00



**Proxxon Ball Joint Vice**

- Adjustable in all kinds of work positions
- With rubber jaws
- Jaw width: **75 mm**
- Clamping range: **55 mm**
- Maximum thickness of working table: **60 mm**

**130 2064** 2 kg



**Self-Adhesive Felt for Vice Jaws**

- Can be cut to size, self-adhesive
- For vices to protect sensitive materials

**120 2617** 15 x 3 mm 1 m  
2121 20



**Aluminium Jaws**

- For easy attachment, suitable for all vices

**120 2616** 65 x 10 x 14 mm 33 g 2 pairs  
2121 15



**Filing Vice**

- For filing of temple stops with its clamp

**120 2297** 170 g  
1724 00

## 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

**120 2666** | 295 mm  
2152 00



## Standard Blades for Hack Saw

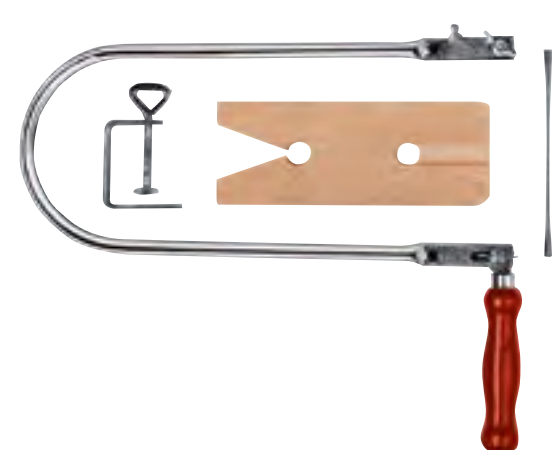
**120 2667** | 150 mm 10 pieces  
2152 10



## Fret Saw Working Set

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

**120 2665** 390 g  
2151 00



## Fret Saw Timber (without illustration)

- With two clamps and metal sleeve

**120 2669** 220 x 14 x 90 mm 16 g  
2160 00

## Spare Screw Set (without illustration)

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

**120 2668** 9 g 2 pieces  
2158 01

## Spare Clamps (without illustration)

**120 2670** 2 pieces  
2160 01

## Fret Saw Blades

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

**120 2680-82** each 12 pieces

**120 2680** 0.8 mm **120 2682** 1.5 mm  
2198 01 2198 03

**120 2681** 1.2 mm  
2198 02



## Fret Saw Blades

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

**120 2683-86** each 12 pieces

**120 2683** 0.8 mm **120 2685** 1.0 mm  
2199 03 2199 05

**120 2684** 0.9 mm **120 2686** 1.2 mm  
2199 04 2199 07



## Fret Saw Blades

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

**120 2677-79** each 12 pieces

**120 2677** 0.5 mm **120 2679** 1.0 mm  
2196 01 2196 03

**120 2678** 0.7 mm  
2196 02







# 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 Occluders
- D 12 Tips & Tricks: Press-on-Bumper
- D 14 Tips & Tricks: Prism Foils
- D 15 Ophthalmic Lenses
- D 16 Occlusion Foils
- D 17 Stick-on Reading Segment
- D 18 Contact Lens Equipment
- D 22 Lens Clock and Thickness Gauge
- D 24 Caliper Gauges
- D 26 Tips & Tricks: The Cube
- D 29 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

**120 5325**  
4428 00



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

### Polarised Clip-on

For lateral mounting on the trial frame No. 120 5325.

**120 5333** 4428 50 Polarisation = Circular

**120 5334** 4428 51 Polarisation = V-position (45°/135°)

**120 5333-34**

1 pair (left and right)



### Polarised Clip-on for Testing

Polarisation = V-position (45°/135°)

**120 5470**  
4458 30




## UB4

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

**120 5273**  
4423 00

 70 g


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



## Polarised Clip-on

For lateral mounting on the trial frame No. 120 5273.  
Polarisation = V-position (45°/135°)

**120 5296**  
4423 51

 1 pair (left and right)


 Z OCULUS



## Polarised Clip-on

For lateral mounting on the trial frame No. 120 5273.  
Polarisation = Circular

**120 5295**  
4423 50

 1 pair (left and right)


 Z OCULUS



## Polarised Clip-on

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

**120 5469**  
4458 20

 1 pair (left and right)


 Z OCULUS






## 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

**120 5316**  61 g  
4427 00


 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

**120 5306**  80 g  
4426 00


 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

**120 5335**  52 g  
4429 00


 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

**120 4913**  54 x 10 x 35 cm  6.6 kg  
4369 05

 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

**120 4934**  54 x 10 x 35 cm  6.6 kg  
4369 10

 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

**120 4936**  
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

**120 5082**  
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 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

**120 4977**  
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

**120 4935**  
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

**120 5019**  
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

∅ 25 mm    12 g

**120 4784-85**

**120 4784**    ± 0.25 dpt.  
4367 20

**120 4785**    ± 0.50 dpt.  
4367 40



**Cross Cylinder**

∅ 35 mm    25 g

**120 5083-84**

**120 5083**    ± 0.25 dpt.  
4370 25

**120 5084**    ± 0.50 dpt.  
4370 50



**Power Testing Bar**

With AR coating

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

**120 4783**    ∅ 19 mm each    40 g  
4366 05



**Power Testing Bar**

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


Delivered in B & S Design Box

**120 5088**    ∅ 21 mm each    40 g  
4373 00



## Confirmation Test


Effect in diopters: Sph.  $\pm$  0.25 dpt.

**120 5087**  $\varnothing$  35 mm each  25 g  
4372 00



## Binocular Confirmation Test Metal


Effect in diopters: Sph.  $\pm$  0.25 dpt.  
Adjustment of PD: 46 to 82 mm

**120 5090**  $\varnothing$  35 mm each  72 g  
4374 00



## Binocular Confirmation Test Plastic

Adjustment of PD: 44 to 81 mm

**120 5094-95**  $\varnothing$  35 mm each  37 g



**120 5094** Effect in diopters: Sph.  $\pm$  0.25 dpt.  
4377 25

**120 5095** Effect in diopters: Sph.  $\pm$  0.50 dpt.  
4377 50



## Occluder

For cover test.  
Total length: 24.5 cm

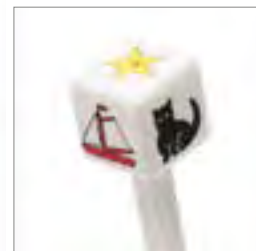
**120 5091**  6 cm  21 g  
4375 00



## LANG Fixation Cube

To be used for the cover test and motility test.


**120 5096**  
4378 00

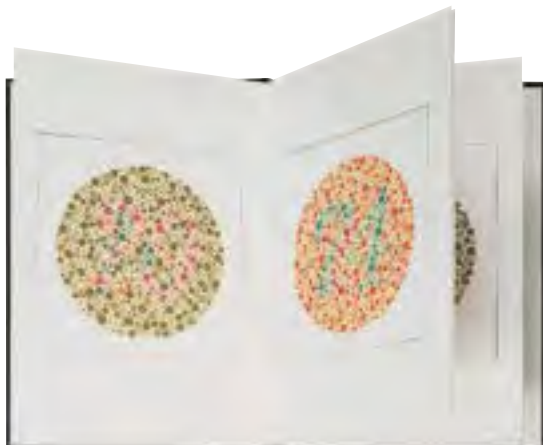


## Ishihara Colour Chart

Book type, 14 charts.  
Size: DIN A5



**120 5536**  250 g  
4476 10



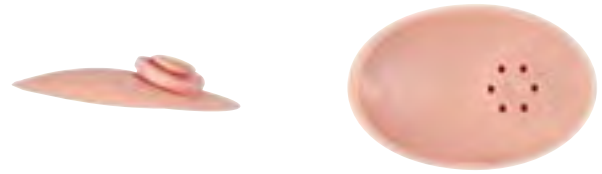
## Occluder

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

**120 5341**

4439 80

 75 x 50 mm     of the sucker 15 mm






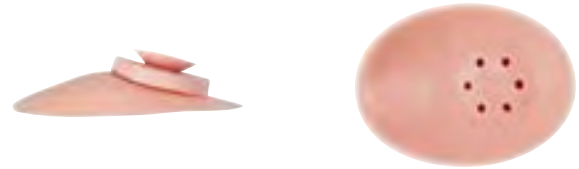
## Occluder

- As No. 120 5341, but small and flat type

**120 5343**

4439 95

 55 x 45 mm     of the sucker 15 mm     3 pieces




## Eye Patches

Each eye patch comes with elastic strap.

**100 7056**

2055 01000


**large, concave**

 89 x 44 mm

**100 7058**

2055 11000


**large, flat**

 89 x 89 mm

**100 7062**

2055 31000

**regular, flat**

 76 x 44 mm



## Side Protection Universal

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

 1 pair

**120 1679**

1316 00

**Black**

**120 1680**

1316 10

**Semi-Transparent**





## TIPS & TRICKS

### PRESS-ON-BUMPER

*Push the Button!*

**Prism Foils**  
No. 120 0806–120 0840  
**Small Scissors**  
No. 120 2136



**3** approx. 2–3 minutes

*This is how it works*

**1 APPLY**



**2 MOISTEN**



**3 APPLY THE LENS**



**4 PRESS ON FIRMLY**



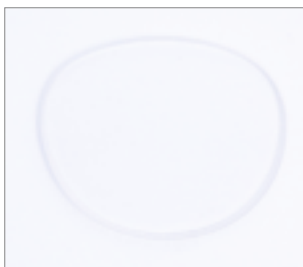
**5 CONTROL**



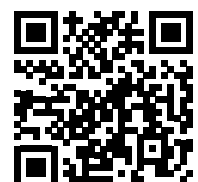
**6 CUT OUT**



**7 DONE**



 YouTube



## Press-On-Bumper – a real “game changer”


This tool prevents annoying air bubbles when applying prism, lens or occlusive foils to the lens. The film is simply placed on the orange, round-shaped cushion, then the film is sprayed with a little water and pressed onto the lens from the centre.

The firm adhesion prevents slippage even on lenses with superhydrophobic coatings, so that cutting the film around the edges can be done with a precise fit. The practical axis indication around the cushion ensures that prismatic foils can be applied in the correct axial position.



Easy, bubble-free application of prism or occlusive foils to all types of lenses and coatings in the correct axial position.

130 2865

 10 x 10 x 2.5 cm



## TIPS & TRICKS

### ATTACH PRISM FOILS PROPERLY

*Get the Right Base Position!*

#### Prism Foils

No. 120 0806-120 0822

#### Scissors for Plastic

No. 121 0105

#### Foil Pen

No. 120 3049

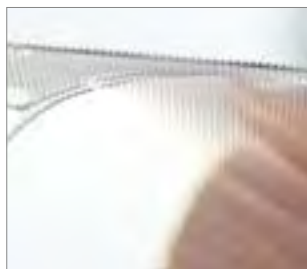


approx. 2–3 minutes

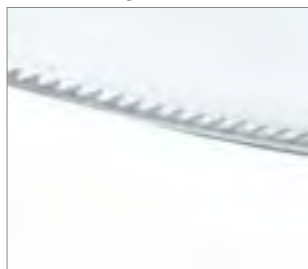
*This is how it works*



#### 1 UNPACKING



#### 2 RECOGNIZING THE BASE



#### 3 ATTACHING



#### 4 MARKING



#### 5 CUT OUT



#### 6 MOISTEN



#### 7 ATTACHING



#### 8 SMOOTHING



 YouTube



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

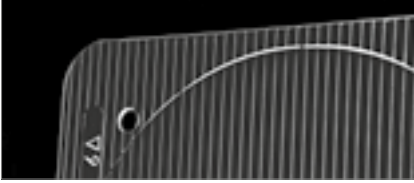


**ATTENTION:** Storing period for lens foils max. 1 year. Please mark foils only with tallow or wax pencils!

### 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

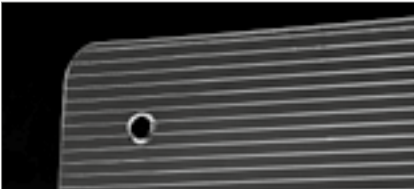
120 0806–22



Order No.	cm/m	Order No.	cm/m	Order No.	cm/m
<b>120 0806</b> 0639 01	1	<b>120 0812</b> 0639 07	7	<b>120 0818</b> 0639 20	20
<b>120 0807</b> 0639 02	2	<b>120 0813</b> 0639 08	8	<b>120 0819</b> 0639 25	25
<b>120 0808</b> 0639 03	3	<b>120 0814</b> 0639 09	9	<b>120 0820</b> 0639 30	30
<b>120 0809</b> 0639 04	4	<b>120 0815</b> 0639 10	10	<b>120 0821</b> 0639 35	35
<b>120 0810</b> 0639 05	5	<b>120 0816</b> 0639 12	12	<b>120 0822</b> 0639 40	40
<b>120 0811</b> 0639 06	6	<b>120 0817</b> 0639 15	15		

### Ophthalmic Lenses

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

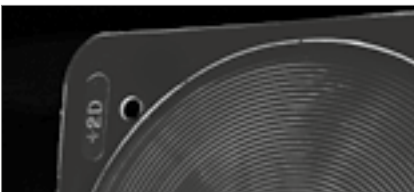


Order No.	cm/m	Order No.	cm/m	Order No.	cm/m
<b>120 0823</b> 0640 01	1	<b>120 0830</b> 0640 07	7	<b>120 0836</b> 0640 17	17.5
<b>120 0825</b> 0640 02	2	<b>120 0831</b> 0640 08	8	<b>120 0837</b> 0640 20	20
<b>120 0826</b> 0640 03	3	<b>120 0832</b> 0640 09	9	<b>120 0838</b> 0640 25	25
<b>120 0827</b> 0640 04	4	<b>120 0833</b> 0640 10	10	<b>120 0839</b> 0640 30	30
<b>120 0828</b> 0640 05	5	<b>120 0834</b> 0640 12	12	<b>120 0840</b> 0640 35	35
<b>120 0829</b> 0640 06	6	<b>120 0835</b> 0640 15	15		

### 3M Lens Foils

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

120 0841–45



Order No.	Effect dpt.	Order No.	Effect dpt.
<b>120 0841</b> 0646 10	+ 1.0	<b>120 0844</b> 0646 25	+ 2.5
<b>120 0842</b> 0646 15	+ 1.5	<b>120 0845</b> 0646 30	+ 3.0
<b>120 0843</b> 0646 20	+ 2.0		



## 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.

**120 0851-62**  215 x 105 mm

Order No.	Foil	Visus reduction	Order No.	Foil	Visus reduction
<b>120 0861</b> 0658 20	<b>With motifs</b>	<b>Full</b>	<b>120 0852</b> 0658 01	<b>Colourless</b>	<b>0.1</b>
<b>120 0851</b> 0658 00	<b>Beige</b>	<b>Full</b>	<b>120 0853</b> 0658 02	<b>Colourless</b>	<b>0.2</b>
<b>120 0860</b> 0658 10	<b>Grey</b>	<b>Full</b>	<b>120 0854</b> 0658 03	<b>Colourless</b>	<b>0.3</b>
<b>120 0862</b> 0658 30	<b>Matt Black</b>	<b>Full</b>	<b>120 0855</b> 0658 04	<b>Colourless</b>	<b>0.4</b>
<b>120 0859</b> 0658 09	<b>Translucent</b>	<b>Light perception</b>	<b>120 0856</b> 0658 06	<b>Colourless</b>	<b>0.6</b>
<b>120 0857</b> 0658 07	<b>Colourless</b>	<b>&lt; 0.1</b>	<b>120 0858</b> 0658 08	<b>Colourless</b>	<b>0.8</b>




### Single Foils

**120 0863-72**  60 x 60 mm

Order No.	Visus reduction	Order No.	Visus reduction
<b>120 0863</b> 0659 00	<b>Full</b>	<b>120 0866</b> 0659 03	<b>0.3</b>
<b>120 0871</b> 0659 09	<b>Light perception</b>	<b>120 0867</b> 0659 04	<b>0.4</b>
<b>120 0869</b> 0659 07	<b>&lt; 0.1</b>	<b>120 0868</b> 0659 06	<b>0.6</b>
<b>120 0864</b> 0659 01	<b>0.1</b>	<b>120 0870</b> 0659 08	<b>0.8</b>
<b>120 0865</b> 0659 02	<b>0.2</b>	<b>120 0872</b> 0659 10	<b>1.0</b>



 T&T Press-On-Bumper (see page D 12)

### Single Foils with Funny Motives for Squint Treatment of Children

Visus reduction: Full

**120 0873, -75, -76**  60 x 60 mm



Order No.	Motifs	Order No.	Motifs
<b>120 0873</b> 0659 20	<b>Ladybird</b>	<b>120 0875</b> 0659 24	<b>Clown</b>
		<b>120 0876</b> 0659 25	<b>Butterfly</b>





### Pro-ophta Junior Occlusion Patches

Visual reduction: full

- Individual stickers included
- Skin-friendly adhesive, thin and cuddly material, can be used on the left or right side
- Skin-coloured backing fabric: 100% polyester
- Light-proof and air-permeable centre: 100% cotton fabric



**130 6459** Mini  65 x 54 mm  5 pieces

**130 6460** Maxi  70 x 59 mm  5 pieces



## StickTite Stick-on Reading Segment

- Flexible plastic
- Reusable self adhesive
- Easy to handle

 28 x 14 mm  1 pair


**130 3019-23**

<b>130 3019</b>	+ 1,25
<b>130 3020</b>	+ 1,50
<b>130 3021</b>	+ 1,75
<b>130 3022</b>	+ 2,00
<b>130 3023</b>	+ 2,50
<b>130 3024</b>	+ 3,00



## StickTite Display

- Suitable for StickTite Reading Segments
- Contents not included



 33 x 22 x 42 cm

**130 3414**



## Prismaflex Stick-on Reading Segment

- Flexible plastic
- Reusable self adhesive
- Easy to handle

 30 x 18 mm  1 pair

**130 1557-62**

<b>130 1557</b>	+ 1,25
<b>130 1558</b>	+ 1,50
<b>130 1559</b>	+ 1,75
<b>130 1560</b>	+ 2,00
<b>130 1561</b>	+ 2,50
<b>130 1562</b>	+ 3,00



Multiple application ...



... in protective goggles




... in sunglasses

## 12 Contact Lens Cases “Funny Animals”

– including presentation display

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

**120 6164** 7205 00  12 contact lens cases including presentation display

Colours / Models:

2 x Frog, Green / 2 x Piggy, Pink  
 2 x Hippo, Grey / 2 x Bear, Blue  
 2 x Fish, Purple / 2 x Elephant, Yellow

**Every Funny Animal is available separately.**


**120 6165** 7205 01 Frog, Green  
**120 6166** 7205 02 Piggy, Pink  
**120 6167** 7205 03 Hippo, Grey  
**120 6168** 7205 04 Bear, Blue  
**120 6169** 7205 05 Fish, Purple  
**120 6170** 7205 06 Elephant, Yellow  
**120 6171** 7205 07 Monkey, Dark blue  
**120 6172** 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)

**120 6182** 7250 00  12 pieces




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

**120 6183** 7251 00  6 pieces



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

**120 6184** 7252 00  6 pieces



## Biodegradable Contact Lens Case

- Biodegradable disposable contact lens case
- Can be disposed of in the organic waste garbage can – Observe local disposal regulations!
- Avoidance of plastic waste
- Hygienic and sustainable work
- Fresh lens case for each customer

**120 6192**  250 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)

**120 6185**  12 pieces  
7254 00




- 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)

**120 6186**  12 pieces  
7254 10




## 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

**120 6188**  12 pieces  
7255 00  
Orange



**120 6189**  12 pieces  
7255 10  
Green



Hollow, for hard and soft contact lenses








## Lens Clock

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

**120 2788**  62 g  
2315 10



## Lens Clock


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

**108 0776**  62 g  
2315 20



## 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

**109 2418**  390 g  
2314 00



## Thickness Gauge

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

**120 2793**  75 g  
2318 00



## 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



**120 2798**  315 g  
2335 00

## Universal Caliper

Stainless steel, matt chrome.

Reading: 1/50 mm and 1/1,000 inches

Measuring range: 150 mm

Jaw Depth: 40 mm



**120 2799**  170 g  
2337 02

## Pocket Caliper

Made of high quality brass, offers 6 different measuring possibilities.

Length: 100 mm

Length of measuring leg: 40 mm



**120 2797**  65 g  
2333 10



## 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.

**120 2834**  68 x 0.5 x 68 mm  200 pieces  
2359 02

**120 2835**  68 x 0.5 x 68 mm  50 pieces  
2359 04



## Segheight Gauge

Transparent, scale printed in white.

**120 2851**  75 x 37 mm  2 pieces  
2371 02



## 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.

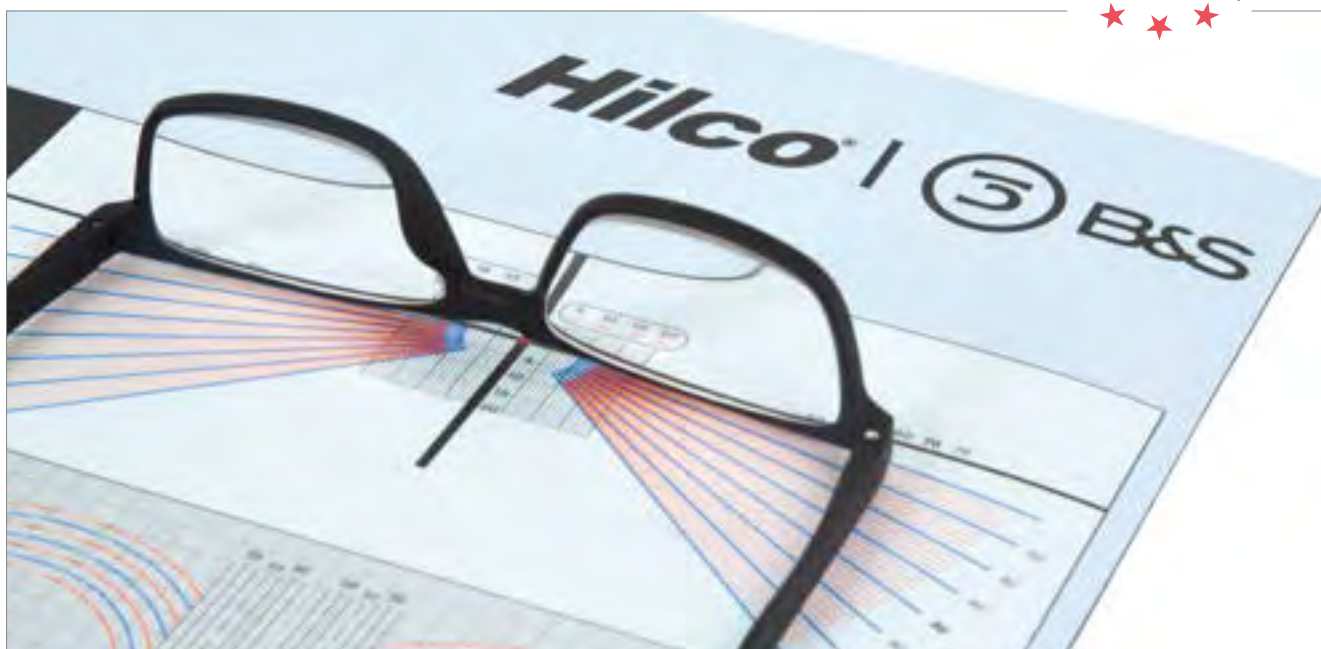
Ideal for aligning all frames, in particular when assembling rimless spectacles.

- 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

**109 7625**  
2365 21

 39,4 x 28 cm

 800 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

**109 2361**  
2274 00

 2 pieces



**TIPS & TRICKS**

**THE CUBE**

*3 at a Stroke*

**The Cube**  
Art. No. 109 6994

 approx. 1 minute

*This is how it works*



**OPTION 1:**

**1 ATTACHING**



**2 MARKING**



**3 CHECKING**



**4 CORRECT**



**OPTION 2:**

**1 MEASURE**



**OPTION 3:**

**1 MEASURE**



 YouTube



## 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. 120 3048)

**109 6994**  
2372 50


 55 x 55 x 30 mm





## Fine Line Ruler


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

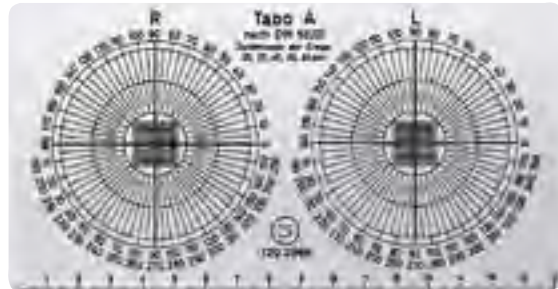
**130 2765**  130 x 18 x 85 mm



## Axis Layout

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

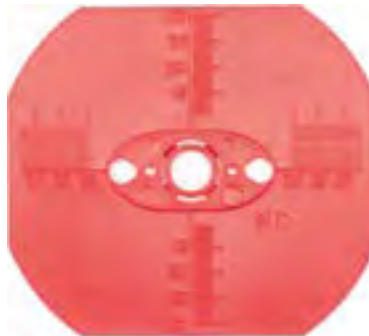
**120 2860**  175 x 1 x 90 mm  
2377 00



## Formers

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

**109 9802**  71 x 1.5 x 65 mm  100 pieces  
2395 30





## PD Ruler Transparent

Polycarbonate.

With holes to measure screw threads.

Measuring range: 0–160 mm (mm scale)

**120 2855**  205 mm  3 pieces  
2373 00





## PD Ruler

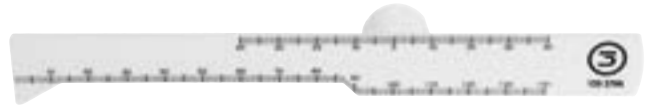
PVC.

With rear centering ring for nose bridges.

For simpler reading of markings.

Measuring range: 0–140 mm (mm scale)


**120 2796**  165 mm  2 pieces  
2325 00



## 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)


**120 2859**  155 mm  
2376 00



## PD Ruler

Plastic.

Measuring range: 0–170 mm (mm scale)


**120 2858**  180 mm  
2374 00



## Ruler Metal

Flexible, etched scale.

Measuring range: 0–150 mm (mm scale)


**120 2795**  165 mm  
2320 01



## Angle Measuring Device 180°

Metal.

Angle range: 0–180°

**120 2849**  45 x 174 mm  
2366 00







# CONSUMABLES

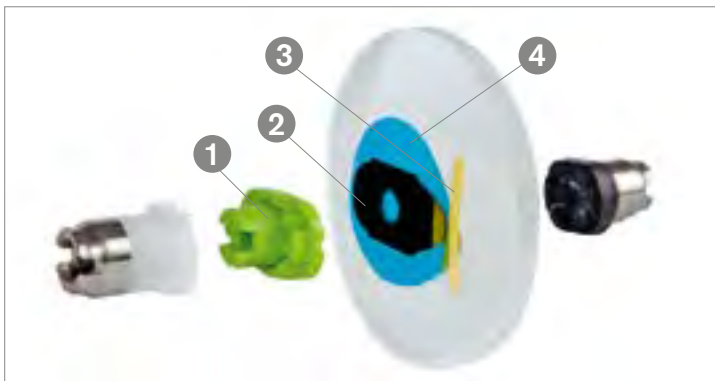
for first aid measures



- 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 Oil and Cleaners
- E 20 Tips & Tricks: Plasti Dip
- E 22 Repair Colours and Repair Pens
- E 25 Tips & Tricks: Polishing
- E 26 Buffing Wheels and Brushes
- E 28 Polishing and Grinding Wax
- E 30 Marking and Emery Tools
- E 31 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. 120 2917, 120 2924, 120 2927, 120 2929, 120 2930, 120 2938, 120 2942 or 120 2949 only!**

Up to curve 8.

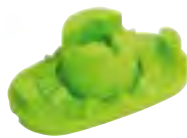
∅ 30 x 17 mm    10 pieces



**109 2405**  
3710 17N



**109 2406**  
3710 17R  
Red (left lens)



**109 2407**  
3710 17G  
Green (right lens)



**109 2408**  
3710 50  
Mixed colours for right and left lenses (5x red and 5x green)

For high curves **from base 8.**

∅ 30 x 17 mm    10 pieces



**109 2409**  
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.

∅ 20 x 15 mm    10 pieces



**109 2410**  
3714 15



**109 2411**  
3714 15R  
Red (left lens)



**109 2412**  
3714 15G  
Green (right lens)



**109 2413**  
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. 120 2923 only!**

Up to curve 6.

∅ 30 x 17 mm/18 x 13.5 mm

∅ 10 pieces



**109 2674**

3715 13R

Red (left lens)



**109 2675**

3715 13G

Green (right lens)



**109 2676**

3715 13

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



## Vario Block

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

∅ 25 x 20 mm

∅ 25 mm

∅ 10 pieces

∅ 25 pieces



**109 2414**

3700 20

White

Flat curve

**109 2416**

3700 25


White

Flat curve



## 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)

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 %.



**120 2945**  
2511 17



**120 2946**  
2511 19



**120 2947**  
2511 22



**120 2948**  
2511 24

Order No.	∅ in mm	Adhesive power	Protection against axis slip	Type	for blocker
<b>120 2945</b>	31 x 17	very high, for super hydrophobic lenses	very high, <b>including</b> <b>anti-torsion foil</b>	NIDEK	No. 109 2405–09
<b>120 2946</b>	30 x 18			Universal	
<b>120 2947</b>	22			Universal	
<b>120 2948</b>	24			Universal	



**120 2942**  
2510 17



**120 2943**  
2510 18



**120 2944**  
2510 24



Order No.	∅ in mm	Adhesive power	Protection against axis slip	Type	for blocker
<b>120 2942</b> 2510 17	31 x 17	high, for super hydrophobic lenses	high, <b>including</b> <b>anti-torsion foil</b>	NIDEK	No. 109 2405–09
<b>120 2943</b> 2510 18	30 x 18			Universal	
<b>120 2944</b> 2510 24	24			Universal	

## Adhesive Pads for Hydrophobic Lenses

- Material: Polyurethane foam
- In a dispenser box

 0.9 mm  see table



**120 2928** 2507 14



**120 2929** 2507 17  
**120 2930** 2507 171




**120 2931** 2507 18  
**120 2932** 2507 181



**120 2933** 2507 22  
**120 2934** 2507 221



**120 2935** 2507 24  
**120 2936** 2507 241

Order No.	∅ in mm	Adhesive power	Protection against axis slip	Type	for blocker	 (pieces)
<b>120 2928</b> 2507 14	21 x 14	very high, for hydrophobic lenses	very high	Universal		1 roll (500)
<b>120 2929</b> 2507 17	31 x 17			NIDEK	No. 109 2405-09	1 roll (500)
<b>120 2930</b> 2507 171	31 x 17			NIDEK	No. 109 2405-09	1 roll (1,000)
<b>120 2931</b> 2507 18	30 x 18			Universal		1 roll (500)
<b>120 2932</b> 2507 181	30 x 18			Universal		1 roll (1,000)
<b>120 2933</b> 2507 22	22			Universal		1 roll (500)
<b>120 2934</b> 2507 221	22			Universal		1 roll (1,000)
<b>120 2935</b> 2507 24	24			Universal		1 roll (500)
<b>120 2936</b> 2507 241	24			Universal		1 roll (1,000)

- Material: Polyurethane foam
- In a dispenser box

 0.9 mm  1 roll (1,000 pieces)



**120 2949**  
2512 17



**120 2950**  
2512 19



**120 2951**  
2512 22



**120 2952**  
2512 24


Order No.	∅ in mm	Adhesive power	Protection against axis slip	Type	for blocker
<b>120 2949</b> 2512 17	31 x 17	very high, for hydrophobic lenses	very high	NIDEK	No. 109 2405-09
<b>120 2950</b> 2512 19	30 x 19.5			Universal	
<b>120 2951</b> 2512 22	22			Universal	
<b>120 2952</b> 2512 24	24			Universal	






## Adhesive Pads for Hydrophobic Lenses

- Material: Polyurethane foam
- In a resealable polybag

 0.9 mm

 10 strips (200 pieces)


**120 2938**  
2508 17





**120 2940**  
2508 24

Order No.	∅ in mm	Adhesive power	Protection against axis slip	Type	for blocker
<b>120 2938</b> 2508 17	31 x 17	high, for hydrophobic lenses	high	NIDEK	No. 109 2405-09
<b>120 2940</b> 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


**120 2917**  
2502 17



**120 2918**  
2502 18




**120 2919**  
2502 19



**120 2921**  
2502 21



**120 2922**  
2502 24

Order No.	∅ in mm	Adhesive power	Protection against axis slip	Type	for blocker	 (pieces)
<b>120 2917</b> 2502 17	32 x 17	high, for standard lenses	high	NIDEK	Nr. 109 2405-09	1 roll (1,000)
<b>120 2918</b> 2502 18	18			Universal		1 roll (1,000)
<b>120 2919</b> 2502 19	28 x 18			Universal		1 roll (500)
<b>120 2921</b> 2502 21	30 x 21			Universal		1 roll (500)
<b>120 2922</b> 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 (120 2923)

$\pm$  0.8 mm  see table



**120 2923**  
2503 13




**120 2924**  
2503 17




**120 2925**  
2503 18



**120 2926**  
2503 26

Order No.	∅ in mm	Adhesive power	Protection against axis slip	Type	for blocker	 (pieces)
<b>120 2923</b> 2503 13	31 x 17 18 x 13.5	very high, for standard lenses	very high	NIDEK <b>Nano-Cup</b>	No. 109 2674–76 (two-piece)	5 strips (100)
<b>120 2924</b> 2503 17	31 x 17			NIDEK	No. 109 2405–09	1 roll (1,000)
<b>120 2925</b> 2503 18	18			Universal		1 roll (1,000)
<b>120 2926</b> 2503 26	26			Universal		1 roll (1,000)

- Material: Polyethylene foam
- In a dispenser box

$\pm$  0.9 mm (120 2915)  $\pm$  0.8 mm  1 roll (1,000 pieces)



**120 2927**  
2506 17



**120 2915**  
2501 18



**130 6659**



**120 2908**  
2500 19

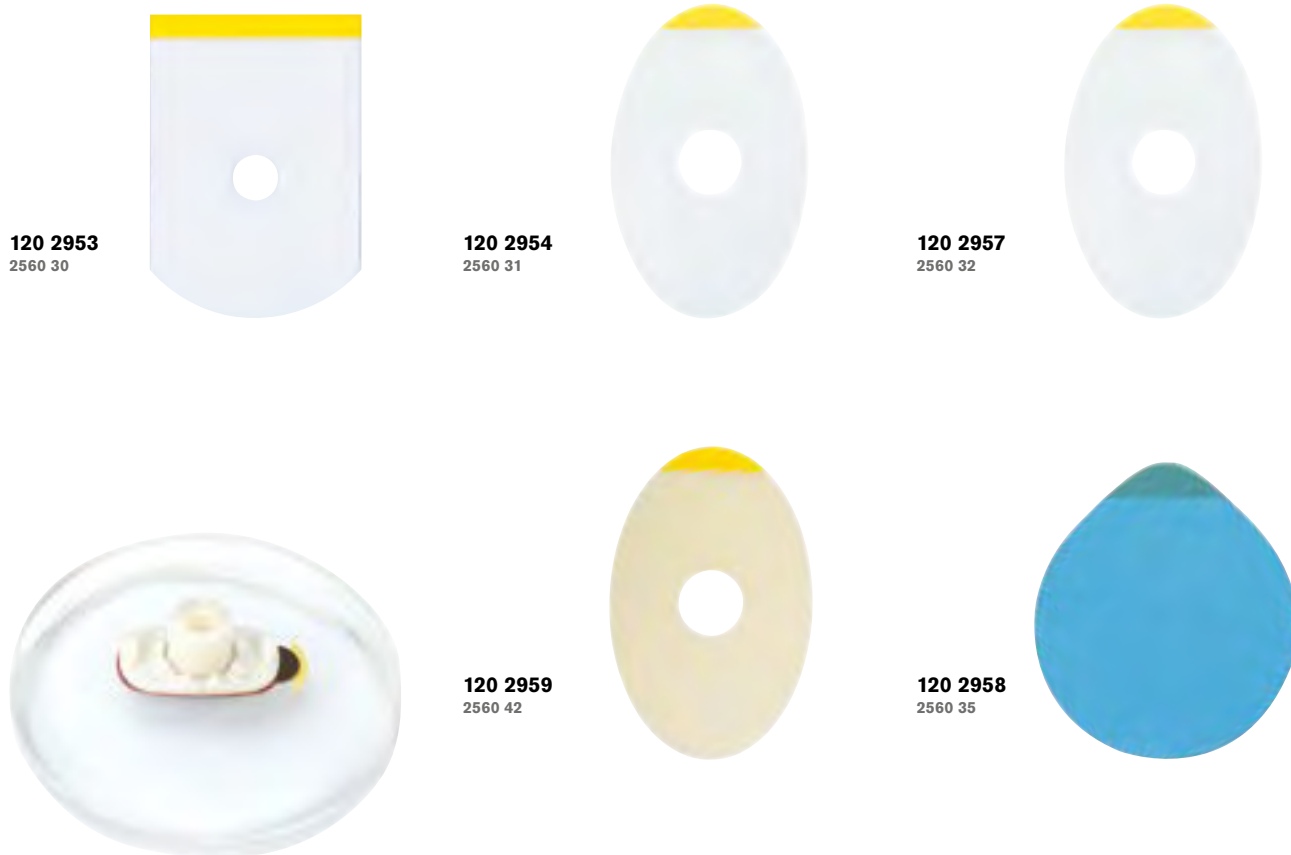


**120 2910**  
2500 24

Order No.	∅ in mm	Adhesive power	Protection against axis slip	Type	for blocker
<b>120 2927</b> 2506 17	31 x 17	high, for standard lenses	high	NIDEK	No. 109 2405–09
<b>120 2915</b> 2501 18	18			Universal	
<b>130 6659</b>	22			Universal	
<b>120 2908</b> 2500 19	30 x 18			Universal	
<b>120 2910</b> 2500 24	24			Universal	



## Lens Protection and Anti-Torsion Foil



Order No.	Ø in mm	Product information	Field of application	📦 (pieces)
<b>Anti-torsion foil</b>				
<b>120 2953</b> 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)
<b>120 2954</b> 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)
<b>120 2957</b> 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)
<b>120 2959</b> 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)
<b>Lens protection</b>				
<b>120 2958</b> 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

**120 2960** 2562 00    📦 150 ml    📏 144 x 50 mm

**120 2961** 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)



**120 3859**  
3148 50


 500 ml

### Bag Insert for Grinding Water Tank

Made of grey, tearproof plastic.

**120 3398**  
2900 51

 800 x 560 x 0.06 mm


 10 pieces




### Bag Insert for Circulation Unit

Made of transparent, tearproof plastic.  
Suitable for NIDEK circulation unit

**120 5226**

 400/300 x 600 x 0.1 mm

 20 pieces




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

## Abrasive Stones

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

**120 4017**  
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

**120 4018**  
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

**120 4019**  
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. 120 3044 and 120 3045

**120 3042**  
2624 02



White



**120 3044**  
2624 22



White

12 pieces

**120 3043**  
2624 05



Red

**120 3045**  
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

**120 3039**  
2620 02



White

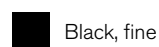
2 pieces



## 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

**120 3046**  
2625 01



Black, fine

4 pieces

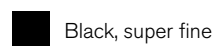
**120 3047**  
2625 05



Red, fine

4 pieces

**120 3048**  
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

**120 3040**  
2623 01



Black

4 pieces

**120 3041**  
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**.

**120 3050**  
2630 00



## Foil Pen

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

**120 3049**  
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 Fix Gel Applicator

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

**120 3940**  
3184 03

 3 ml



**120 3940**  
3184 03

#### b) UV Fix Gel Application Bottle

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

**120 3945**  
3184 10


 10 ml



#### Accessories: UV Fix Gel Inverted Holder

- UV fix gel 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

**120 3944**  
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

**120 3956**  
3186 00

 4 g

### Refill Cartridge

**120 3957**  
3186 01

 4 g



You will find our UV lamp No. 120 2894 on page A 31.



## Instant Adhesive

### Loctite 4850

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


**120 3894**  
3162 00  5 g

**120 3895**  
3162 02  20 g



### Loctite 460

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

**120 3896**  
3162 10  20 g



### VA 1460

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

Comparable with Loctite 460

**120 3901**  
3165 10  20 g



## Universal Adhesive

### Loctite 401

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

**120 3897**  
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


**120 3898**  
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

**120 3902**  
3165 20  4 g




## Universal Adhesive


### HG Power Glue

- The weld from the bottle
- 1 adhesive system with 4 different application possibilities: reinforcing, filling, forming and bonding
- Extremely cold & heat resistant and waterproof
- For 93% of all materials (plastics, wood, rubber, metal, glass, leather, stone etc.)
- Bonding point remains transparent and elastic without using the granulate
- No harmful solvents
- Colour: Transparent
- Viscosity of the adhesive: low

**120 3903**  
3166 00

 5 g adhesive & 10 g granulate

**120 3904**  
3166 01

 20 g adhesive & 40 g granulate



### HG Power Glue

- For the pre-treatment of the surface to be bonded. Removes contaminants such as oil, grease, dust, rust, moisture, etc.
- Removes stubborn adhesive residues

**120 3905**  
3166 10

 20 ml



### HG Power Glue

- For the pretreatment of materials that are difficult to bond such as silicone, oily plastics (PP or PE)
- Closure cap with brush

**120 3906**  
3166 20

 15 ml



### HG Power Glue Activator

- Specially developed for HG Power Glue
- Very fast, bonding in seconds
- Closure cap with brush

**120 3907**  
3166 30

 15 ml



## 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

**120 3935**  
3181 30

 25 ml



### Glass Adhesive

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

**120 3931**  
3177 00

 9 ml



### Screw Grip

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

**120 3908**  
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

**120 3948**  
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

**120 3951**  
3185 22

 30 g



### Adhesive SICO MET 40

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

**120 3954**  
3185 30

 20 g



### Superglue Liquid

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

**121 1718**  
3183 10

 10 g



### VA 20

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

Comparable with SICO MET 40

**120 3955**  
3185 40

 20 g



# Screw Securing

## Loctite 221

- Solvent-free
- Colour: Red
- Also suitable in combination with **polycarbonate**

**120 3890**  
3159 00

 10 ml



## Loctite 243

- Solvent-free
- Colour: Blue
- Also suitable in combination with **polycarbonate**

**120 3892**  
3161 00

 10 ml

**120 3893**  
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

**120 3891**  
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

**120 3899**  
3164 00

 10 ml

**120 3900**  
3164 05

 50 ml



## Screw Fastener with Patented Dispenser Tip

- Low firmness
- Colour: Blue

**120 3934**  
3178 00

 10 g

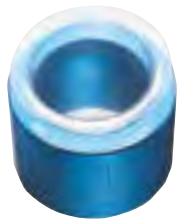


- The filling level of the glues can vary due to the production process
- The details of the firmness refer to the usage of frame screws and can therefore differ to the manufacturers information



## Stand for Mixing Bowl

**120 1750**  
1406 00



## Mixing Bowl

**120 1751**  
1407 00

∅ 21 mm

6 pieces



## Application Tips made of Plastic

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

**120 1744**  
1405 10

3 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

**120 1749**  
1405 20

4 pieces



## Plastic Bottle

- Material: LDPE
- Capacity: 1 l

**120 1872**  
1488 03



## Fluid Dispenser

- Fluid dispenser for acetone, petrol, alcohol, B & S special cleaner No. 120 3930 etc.
- Pump mechanism, can be used with one hand, reduces odour, plastic HDPE, with steel cover
- With pre-printed sticky labels
- Capacity: 125 ml



**109 7359**  
1487 10

## Fluid Dispenser

- Fluid dispenser for acetone, petrol, alcohol, B & S special cleaner No. 120 3930 etc.
- Pump mechanism, can be used with one hand, reduces odour
- PP material with plastic cover
- Capacity: 120 ml



**110 0296**  
1489 00

3 pieces

## Acetone

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

**120 3923**  
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. 109 7359 and 110 0296

**120 3929**  
3175 02

 250 ml

**120 3930**  
3175 10


 1 l

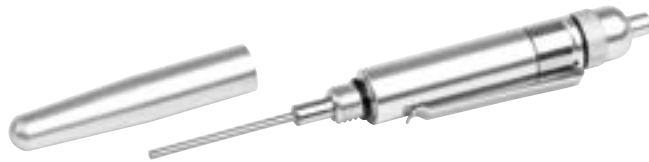


## Oil Dropper

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

**120 3055**  
2742 00

 145 mm



## Oil

- For spectacle hinges, high quality, non-acidic

**120 3920**  
3171 00

 20 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

**120 3927**  
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.

**120 3926**  
3174 10

 400 ml



## Label remover

- For loosening any kind of labels
- Suitable for many surfaces such as glass, metal, wood, foils and plastic.
- Do not use on sensitive surfaces such as TPR material.

**130 2980**


 500 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.**

**120 3885**  1 l  
3157 00


**120 3887**  2.5 l  
3157 25



## 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.**

**120 3888**  1 l  
3158 00



## Ultrasonic Tank Cleaner EC 60

- For cleaning the ultrasonic tank
- Removes metal oxides and mineral contaminations such as Lime, rust, tarnished spots as well as other deposits, mineral oils and greases.

**130 2088**  1 l



You will find our Ultrasonic baths on page A 6 to A 8.





## TIPS & TRICKS

### PLASTI DIP RUBBER COATING

*Scratch Protection in a Twinkling of an Eye!*

#### Plasti Dip

No. 120 3912, -14, -16

#### Thinner

No. 120 3910

Container, syringe, stirring spoon



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



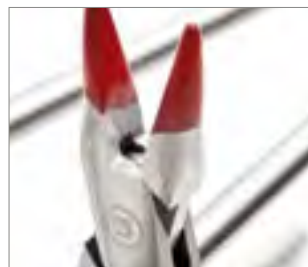
#### 3 DECANT UNDILUTED



#### 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



 YouTube



**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

#### Plasti Dip

**120 3912, -14, -16**  429 ml

**120 3912**  
3169 20 Black  
**120 3914**  
3169 21 Blue  
**120 3916**  
3169 22 Red

#### Plasti Dip Thinner

**120 3910**  250 ml  
3169 10





## 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
- Water-based and therefore environmentally friendly  
Usable for metal and plastic frames.



### 120 2998–3007

#### ▪ Available in 10 colours:

Order No.	Colour	Code
<b>120 2998</b> <small>2612 20</small>	Gloss black	
<b>120 2999</b> <small>2612 21</small>	Matt black	
<b>120 3000</b> <small>2612 22</small>	Dark blue	
<b>120 3001</b> <small>2612 23</small>	Yellow gold	
<b>120 3002</b> <small>2612 24</small>	Gunmetal	

Order No.	Colour	Code
<b>120 3003</b> <small>2612 25</small>	Light silver	
<b>120 3004</b> <small>2612 26</small>	Light brown	
<b>120 3005</b> <small>2612 27</small>	Dark brown	
<b>120 3006</b> <small>2612 28</small>	Protective lacquer clear gloss	
<b>120 3007</b> <small>2612 29</small>	Protective lacquer clear matt	

## Repair Pen Set

Consisting of 10 pens.

**120 3008**  
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.

**120 2988 and 120 2990–96**  12 ml



▪ Available in 7 colours plus clear lacquer:

Order No.	Colour	Code
<b>120 2988</b> 2611 00	White	
<b>120 2990</b> 2611 01	Black	
<b>120 2991</b> 2611 02	Metallic silver	
<b>120 2992</b> 2611 03	Metallic gold	

Order No.	Colour	Code
<b>120 2993</b> 2611 04	Blue	
<b>120 2994</b> 2611 05	Red	
<b>120 2995</b> 2611 08	Brown	
<b>120 2996</b> 2611 09	Clear Lacquer	

## Repair Colour Set

Consisting of all 7 colours plus clear lacquer.

**120 2997**  
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











## 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



### ▪ Available in 8 colours:

Order No.	Colour	Code
<b>120 2973</b> <small>2610 21</small>	<b>Black</b>	
<b>120 2974</b> <small>2610 22</small>	<b>Black matt</b>	
<b>120 2977</b> <small>2610 25</small>	<b>Pink</b>	
<b>120 2978</b> <small>2610 26</small>	<b>Grey</b>	

Order No.	Colour	Code
<b>120 2979</b> <small>2610 27</small>	<b>Plum</b>	
<b>120 2981</b> <small>2610 29</small>	<b>Light turquoise</b>	
<b>120 2984</b> <small>2610 32</small>	<b>Blue</b>	
<b>120 2986</b> <small>2610 34</small>	<b>Bordeaux</b>	



Clean the lens edge thoroughly with lens cleaner No. 120 3929–30 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. 120 3850

**Buffing wheel**  
No. 120 4002, 120 4033

##### FINE POLISHING

**Polishing wax**  
No. 120 3849,  
120 3851

**Buffing wheel**  
No. 120 4002, 120 4033

##### HIGH GLOSS POLISHING

**Burnishing wax**  
No. 120 3849, 120 3852,  
130 3688

**Buffing wheel, wool cone**  
No. 120 4030, 120 4031, 120 4032,  
120 4073, 120 4074, 120 4076

#### POLYCARBONATE

##### LENS POLISHING

**Polishing past**  
No. 120 3855

**Felt cloth buff**  
No. 120 4028

#### CR 39, TRIVEX, PNX

##### ROUGH POLISHING

**Polishing paste**  
No. 130 3688

**Felt discs**  
No. 120 4025, 120 4026,  
120 4027

##### FINE POLISHING

**Polishing paste**  
No. 130 3688,  
120 3855

**Felt cloth buff**  
No. 120 4028, 120 4033

#### STEEL, WHITE AND PRECIOUS METALS

##### ROUGH POLISHING

**Polishing wax**  
No. 120 3857

**Buffing wheels**  
No. 120 4002, 120 4030, 120 4031,  
120 4032, 120 4033

##### FINE POLISHING

**Polishing wax**  
No. 120 3856

**Buffing wheels**  
No. 120 4002, 120 4030, 120 4031,  
120 4032, 120 4033

##### HIGH GLOSS POLISHING

**Burnishing wax**  
No. 130 3688

**Buffing wheel, wool cone**  
No. 120 4030, 120 4031, 120 4032,  
120 4073, 120 4074, 120 4076

#### BAKELITE, HORN, CAOUTCHOUC, METAL

**Polishing wax**  
without any wax

**Leather buffing wheel**  
No. 120 4029



## Felt Disc, conical shaped Soft Set Felt

- Core: Centered
- Bore Ø: 8 mm

∅ 100 mm    |—| 20:5 mm

**120 4025**  
3450 00

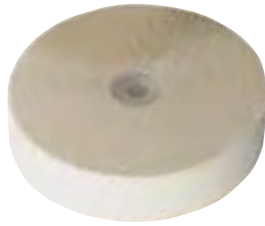


## Felt Disc

- Core: Centered
- Bore Ø: 8 mm

∅ 100 mm    |—| 25 mm

**120 4026**  
3455 10



## Felt Disc with Groove

- Core: Centered
- Bore Ø: 8 mm

∅ 100 mm    |—| 25 mm

**120 4027**  
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. 120 3855**, is perfectly suited for polishing Polycarbonate lenses – optimum speed for the treatment of Polycarbonate: approx. 1,500 rpm.

- Core: Plastic
- Bore Ø: Conical

∅ 80 mm    |—| 25 mm

**120 4028**  
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

∅ 90 mm    |—| 6 mm

**120 4029**  
3462 00



## Muslin Buffing Wheel

- Core: Leather
- Bore Ø: 6 mm

∅ 125 mm    |—| 12 mm

**120 4030**  
3470 01

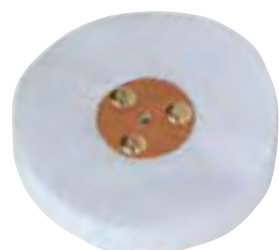


## Muslin Buffing Wheel

- Core: Leather
- Bore Ø: 6 mm

∅ 125 mm    |—| 24 mm

**120 4031**  
3471 00

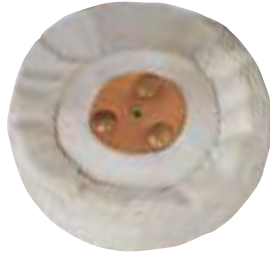


## Flannel Buffing Wheel

- Core: Leather
- Bore Ø: 6 mm

∅ 125 mm | 30 mm

**120 4033**  
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

∅ 100 mm | 12 mm

**120 4032**  
3472 00

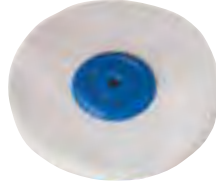


## Buffing Wheel

- Core: Plastic
- Bore Ø: 8 mm

∅ 100 mm | 10 mm

**120 4002**  
3416 10



## Wool Brush

- Core: Wood
- Bore Ø: 6 mm

∅ 70 mm | 35 mm

**120 4073**  
3561 00



## Wool Brush

- Core: Plastic
- Bore Ø: Conical

∅ 80 mm | 25 mm

**120 4076**  
3582 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

∅ 30:15 mm | 70 mm

**120 4074**  
3571 00



"Perfectly Polished" (see page E 25)



To ensure the buffing wool cone No. 120 4074 runs safely it's necessary to check if the cone can be screwed onto the polishing tip for at least 2 cm.



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.



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 Safety frames catalog) have to be worn.



### Polired

**120 3856**  
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

**120 3857**  
3144 00



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

### Poliblu

**120 3858**  
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:	Steel, platinum, silver	Plastic and caoutchouc rubber
Weight:	approx. 60 g	approx. 60 g

### Polishing Wax High Gloss Polish, yellow

**130 3688**



Applications with approx. 3,500 rpm:	High gloss polishing: Cloth buffing wheels
Field of application:	Stainless steel, aluminum, metal, plastic
Weight:	approx. 250 g



Please take note of our small tools assortment including the silicone polisher No. 120 2738 on page C 31.

## Grinding Wax, grey

**120 3850**  
3120 00



## Polishing Wax, blue

**120 3849**  
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. 620 g

## Burnishing Wax, beige

**120 3851**  
3123 00



## Burnishing Wax, beige

**120 3852**  
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. 120 4028** which has a patented conical flange (refer to page E 26).

**120 3855**  
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 25)





You will find our polishing motors  
on page A 18 and A 19.





## Abrasive Paper

**120 3962-67**  230 x 280 mm

 5 sheets

**120 3962**  
3251 18 Granulation: 180

**120 3963**  
3251 24 Granulation: 240

**120 3964**  
3251 32 Granulation: 320

**120 3965**  
3251 40 Granulation: 400


**120 3966**  
3251 60 Granulation: 600

**120 3967**  
3251 80 Granulation: 800



## Abrasive Rubber

To clean solder points,  
to dull metals and plastic.

**120 4000-01**  80 x 20 x 50 mm

**120 4000**  
3412 02 Granulation: Medium


**120 4001**  
3412 03 Granulation: Fine



## Marking Needle

- With carbide tip
- Ballpoint pen format
- Metal grip to optimise the handling




**130 2395**  150 mm

## Accessories for Soldering and Welding Units

### Gas Cartridge

- For handheld soldering unit No. 120 3081 and Micro Torch Set No. 120 3077 and 2762 00 (discontinued)
- Liquid gas
- Burning duration: approx. 3.5 h at low flame


**120 3075**  70 ml  
2761 06



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

### Oxygen Bottle

- For Micro Torch Set No. 120 3077 and 2762 00 (discontinued)
- Oxygen gas (no liquid gas)

**120 3072**  13 g  
2760 02



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

### Solder Dispenser

For Degussa solder No. 120 3829.  
Opening: 1.8 mm




**120 2591**  200 mm  20 g  
2059 00

## 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

**120 3842**  2 x 25 cm  
3043 30




### Titanium Wire

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

**120 3841**  2 x 25 cm  
3043 10



## Electrolyte

**120 3958**  800 ml  
3198 00



## Flux

**120 3960**  1 l  
3199 01



## Heatstop


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

**120 3838**  100 g  
3029 00



## BrazeTec h 80 Flux


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

**120 3847**  100 g  
3114 00



## BrazeTec h Flux

- Consistency: Paste

**120 3844**  100 g  
3112 00

**120 3846**  500 g  
3112 05



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



You will find our soldering unit No. 120 3092 and further accessories on page A 24 to A 26.

## Pallarium – Universal Solder, white fluid

**120 3836**  
3023 00



white fluid, flux included

## Pallarium – Universal Solder, gold fluid

**120 3837**  
3023 01



gold fluid, flux included

Field of application:	All standard metals such as nickel, silver, chrome, stainless steel, gold, brass and others	All standard metals such as nickel, silver, chrome, stainless steel, gold, brass and others
Metal contents:	45 % Ag	33 % Ag
Melting point:	580 °C	620 °C
Recommended Flux:	Without flux	Without flux
Form:	Tube 1 mm Ø	Tube 1 mm Ø
Sales unit:	12 rods at 150 mm each	12 rods at 150 mm each

## Solder wire, white fluid

**120 3832**  
3014 00



## Phantom Solder

**120 3831**  
3010 00



Anwendungsgebiete:	All silver alloy over 800 ‰ fineness	For practice, also suitable for nickel-free material
Metallgehalt:	675 ‰ Ag	55 % Ag, Sn
Arbeitstemperatur:	710 °C	660 °C
Zu verwendendes Flussmittel:	120 3844, -46 BrazeTec h	120 3844, -46 BrazeTec h
Erscheinungsbild/Form:	0.4 mm wire Ø	0.5 mm wire Ø
Verpackungseinheit:	5 g	3 g
Länge:	approx. 230 cm	approx. 130 cm

## Silver Solder Degussa 6002 without Cd

**120 3830**  
3008 00



## Silver Solder Degussa 600 L 3

**120 3829**  
3007 00



Anwendungsgebiete:	Jewellery	Jewellery
Metallgehalt:	60 % Ag, 23 % Cu, 14.5 % Zn, 2.5 % Sn	60 % Ag without Cd
Arbeitstemperatur:	680 °C	680 °C
Zu verwendendes Flussmittel:	120 3844, -46 BrazeTec hh	120 3844, -46 BrazeTec h
Erscheinungsbild/Form:	0.5 mm wire Ø	0.4 mm wire Ø in dispenser
Verpackungseinheit:	5 g	2 g
Länge:	approx. 280 cm	approx. 110 cm







# SPECTACLE FRAME PARTS

in exact dosage with targeted effect



- F 2 Overview: Nose Pads
- F 10 Tips & Tricks: Silicone Nose Pads Minifits
- F 12 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 30 Tips & Tricks: 4-in-1 Screws
- F 47 Nuts, Washers and Sleeves
- F 52 Hinges
- F 56 Overview: Temples and Temple Ends
- F 64 Tips & Tricks: Sport Temple Ends
- F 72 Tips & Tricks: Heat Shrink Tube
- F 74 Long Temple Ends
- F 75 Temples
- F 78 Spare Parts for Rimless Frames with Sleeves Mounting
- F 80 Lens Washer
- F 81 Nylon Threads
- F 82 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

**frey & winkler**  
CREATIVE SILICONE PRECISION

#### **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**<sup>®</sup>










Smart, Universal Nose Pads

U.S. Patent No. 5,872,612

#### **Hilco Pads Logic<sup>®</sup>:**

- 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

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










# Silicone Nose Pads








## Symmetrical Nose Pads, "Push-in" System

 10.0 mm	<b>f&amp;w</b>	<b>120 0334</b> 0227 10	20 pieces
		<b>108 3539</b> 0227 10-100	100 pieces
		<b>120 0336</b> 0227 10-200	200 pieces
 13.0 mm	<b>f&amp;w</b>	<b>108 4089</b> 0227 13	20 pieces
		<b>120 0341</b> 0227 13-100	100 pieces
		<b>120 0342</b> 0227 13-200	200 pieces
 14.5 mm	<b>f&amp;w</b>	<b>120 0345</b> 0227 15	20 pieces
		<b>120 0346</b> 0227 15-100	100 pieces
		<b>120 0347</b> 0227 15-200	200 pieces
 16.0 mm	<b>f&amp;w</b>	<b>120 0350</b> 0227 16	20 pieces
		<b>120 0351</b> 0227 16-100	100 pieces
		<b>120 0352</b> 0227 16-200	200 pieces
 18.0 mm	<b>f&amp;w</b>	<b>120 0355</b> 0227 18	20 pieces
		<b>120 0356</b> 0227 18-100	100 pieces
		<b>120 0357</b> 0227 18-200	200 pieces



## Symmetrical Nose Pads, "Screw-in" System

 10.0 mm	<b>f&amp;w</b>	<b>120 0361</b> 0228 10	20 pieces
		<b>108 3540</b> 0228 10-100	100 pieces
		<b>120 0363</b> 0228 10-200	200 pieces
 13.0 mm	<b>f&amp;w</b>	<b>108 4088</b> 0228 13	20 pieces
		<b>120 0367</b> 0228 13-100	100 pieces
		<b>120 0369</b> 0228 13-200	200 pieces
 14.5 mm	<b>f&amp;w</b>	<b>120 0372</b> 0228 15	20 pieces
		<b>120 0373</b> 0228 15-100	100 pieces
		<b>120 0374</b> 0228 15-200	200 pieces
 16.0 mm	<b>f&amp;w</b>	<b>120 0377</b> 0228 16	20 pieces
		<b>120 0378</b> 0228 16-100	100 pieces
		<b>120 0379</b> 0228 16-200	200 pieces
 18.0 mm	<b>f&amp;w</b>	<b>120 0382</b> 0228 18	20 pieces
		<b>120 0383</b> 0228 18-100	100 pieces
		<b>120 0384</b> 0228 18-200	200 pieces



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

 13.0 mm		<b>120 0287</b> 0219 13	20 pieces
		<b>120 0289</b> 0219 13-50	50 pieces
		<b>120 0288</b> 0219 13-100	100 pieces
 15.0 mm		<b>120 0292</b> 0219 15	20 pieces
		<b>120 0294</b> 0219 15-50	50 pieces
		<b>120 0293</b> 0219 15-100	100 pieces



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

 13.0 mm		<b>120 0387</b> 0229 13	20 pieces
		<b>120 0389</b> 0229 13-50	50 pieces
		<b>120 0388</b> 0229 13-100	100 pieces
 15.0 mm		<b>120 0392</b> 0229 15	20 pieces
		<b>120 0394</b> 0229 15-50	50 pieces
		<b>120 0393</b> 0229 15-100	100 pieces

## Silicone Nose Pads



### Round and Classic, "Push-in" System



9,0 mm

**f&w**

**108 0758**

0278 09

20 pieces

**120 0488**

0278 09-100

100 pieces



15,0 mm

**f&w**

**108 2570**

0216 15

10 pairs

**120 0266**

0216 15-50

50 pairs

**120 0265**

0216 15-100

100 pairs



17,0 mm

**f&w**

**120 0269**

0216 17

10 pairs

**120 0271**

0216 17-50

50 pairs

**120 0270**

0216 17-100

100 pairs



19,0 mm

**f&w**

**120 0274**

0216 19

10 pairs

**120 0276**

0216 19-50

50 pairs

**120 0275**

0216 19-100

100 pairs



### Round and Classic, "Screw-in" System



9,0 mm

**f&w**

**108 0759**

0288 09

20 pieces

**120 0516**

0288 09-100

100 pieces



15,0 mm

**f&w**

**108 2571**

0226 15

10 pairs

**120 0319**

0226 15-50

50 pairs

**120 0318**

0226 15-100

100 pairs



17,0 mm

**f&w**

**120 0322**

0226 17

10 pairs

**120 0326**

0226 17-50

50 pairs

**120 0323**

0226 17-100

100 pairs



19,0 mm

**f&w**

**120 0329**

0226 19

10 pairs

**120 0331**

0226 19-50

50 pairs

**120 0330**

0226 19-100

100 pairs


## Silicone Nose Pad Assortment

In organiser boxes No. 120 1817.

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

We reserve the right to change the assortment.

**120 0230**  
0200 10

 210 g



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



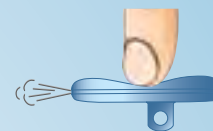
# Comfort Nose Pads







## 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.

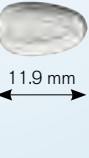
**frey & winkler**  
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Air Active Pads, Symmetrical, "Push-in" System			
	<b>f&amp;w</b>	<b>120 0521</b> 0296 13	10 pieces
13.0 mm		with plastic insert	
	<b>f&amp;w</b>	<b>120 0522</b> 0296 14	10 pieces
14.5 mm		with plastic insert	
	<b>f&amp;w</b>	<b>130 1450</b>	10 pieces
14.5 mm		with plastic insert	
	<b>f&amp;w</b>	<b>120 0523</b> 0296 17	10 pieces
17.0 mm		with plastic insert	

Air Active Pads, Symmetrical, "Screw-in" System			
	<b>f&amp;w</b>	<b>120 0524</b> 0297 11	10 pieces
11.0 mm			
	<b>f&amp;w</b>	<b>120 0525</b> 0297 14	10 pieces
14.5 mm			
	<b>f&amp;w</b>	<b>120 0526</b> 0297 17	10 pieces
17.0 mm			
	<b>f&amp;w</b>	<b>120 0527</b> 0297 25	10 pieces
14.5 mm		with plastic insert	

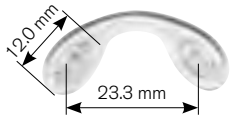
"System 3 AirTec"			
	<b>f&amp;w</b>	<b>120 0528</b> 0298 11	10 pieces
11.0 mm			

"System 3 AirTec"			
	<b>f&amp;w</b>	<b>108 4095</b> 0298 12	10 pieces
11.9 mm			

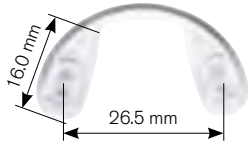
# Silicone Nose Pads and TPE



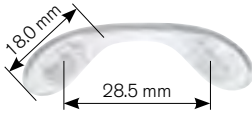
## Saddle Bridges Silicone, "Push-in" System



**f&w** **120 0306**  
0225 12 **3 pieces**  
**120 0307**  
0225 12-9 **9 pieces**



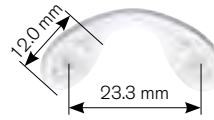
**f&w** **120 0309**  
0225 16 **3 pieces**  
**120 0310**  
0225 16-9 **9 pieces**



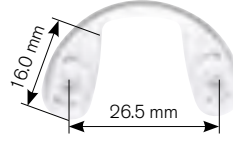
**f&w** **120 0312**  
0225 18 **3 pieces**  
**120 0313**  
0225 18-9 **9 pieces**



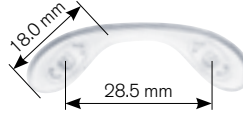
## Saddle Bridges Silicone, "Screw-in" System



**f&w** **120 0401**  
0235 12 **3 pieces**  
**120 0402**  
0235 12-9 **9 pieces**



**f&w** **120 0404**  
0235 16 **3 pieces**  
**120 0405**  
0235 16-9 **9 pieces**



**f&w** **120 0407**  
0235 18 **3 pieces**  
**120 0408**  
0235 18-9 **9 pieces**

## "System 3" Silicone



**f&w** **109 2179**  
0279 11 **20 pieces**



**f&w** **109 2180**  
0279 13 **20 pieces**



**f&w** **109 2181**  
0279 51 **10 pairs**  
**cuneiform**

## "System 3 Dash M" Silicone



**f&w** **120 0485**  
0276 11 **20 pieces**

With modified, movable base for better comfort.

## "System 3" TPE (Thermoplastic elastomer)



**f&w** **109 2182**  
0274 11 **20 pieces**



The suitable pad arm No. 109 2673 is shown on page F 19.





# Silicone Nose Pads and PVC Nose Pads, Medium Soft













## Primadonna System Silicone

 9.0 mm 	<b>f&amp;w</b>	<b>120 0508</b> 0280 09	20 pieces
 13.0 mm 	<b>f&amp;w</b>	<b>120 0251</b> 0212 13	20 pieces
		<b>120 0252</b> 0212 13-100	100 pieces
 14.5 mm 	<b>f&amp;w</b>	<b>120 0254</b> 0212 15	10 pairs

## Primadonna System PVC

 13.0 mm 	<b>f&amp;w</b>	<b>120 0256</b> 0213 13	20 pieces
		<b>120 0257</b> 0213 13-100	100 pieces









## Air Titanium and Minimal Art Silicone

 8.0 mm 	<b>f&amp;w</b>	<b>120 0491</b> 0279 08	20 pieces
		<b>120 0492</b> 0279 08-100	100 pieces
 9.0 mm 	<b>f&amp;w</b>	<b>120 0495</b> 0279 09	20 pieces
		<b>120 0496</b> 0279 09-100	100 pieces
 9.5 mm 	<b>f&amp;w</b>	<b>120 0499</b> 0279 10	20 pieces
		<b>120 0500</b> 0279 10-100	100 pieces
		Greater stability due to inserted plastic pin.	
 12.0 mm 	<b>f&amp;w</b>	<b>120 0504</b> 0279 12	20 pieces
 15.5 mm 	<b>f&amp;w</b>	<b>120 0506</b> 0279 15	20 pieces
 11.0 mm 		<b>120 0448</b> 0270 11	10 pairs











## Air Titanium and Minimal Art PVC

 9.5 mm 	<b>f&amp;w</b>	<b>120 0449</b> 0271 09	20 pieces
 11.5 mm 	<b>f&amp;w</b>	<b>120 0450</b> 0271 11	20 pieces

## PVC Nose Pads, Medium Soft, with Plastic Insert

 Transparent, "Push-in" System				 Transparent, "Screw-in" System			
	<b>f&amp;w</b>	<b>120 0455</b> 0272 13	20 pieces		<b>f&amp;w</b>	<b>120 0471</b> 0273 13	20 pieces
13.0 mm		<b>108 3543</b> 0272 13-100	100 pieces	13.0 mm		<b>108 3544</b> 0273 13-100	100 pieces
	<b>f&amp;w</b>	<b>120 0459</b> 0272 15	10 pairs		<b>f&amp;w</b>	<b>120 0475</b> 0273 15	10 pairs
14.5 mm		<b>120 0460</b> 0272 15-50	50 pairs	14.5 mm		<b>120 0476</b> 0273 15-50	50 pairs
	<b>f&amp;w</b>	<b>120 0463</b> 0272 17	10 pairs		<b>f&amp;w</b>	<b>120 0479</b> 0273 17	10 pairs
17.0 mm		<b>120 0464</b> 0272 17-50	50 pairs	17.0 mm		<b>120 0480</b> 0273 17-50	50 pairs

## PVC Nose Pads, Medium Soft, with Metal Insert

 Transparent, Silver, "Push-in" System				 Transparent, Gold, "Screw-in" System			
		<b>108 4087</b> 0230 15	20 pieces			<b>120 0435</b> 0256 15	20 pieces
15.0 mm				15.0 mm			
		<b>108 0755</b> 0255 12	20 pieces			<b>108 0757</b> 0255 15	20 pieces
12.0 mm				12.0 mm			
		<b>120 0434</b> 0255 17	20 pieces				
15.0 mm				15.0 mm			
							
17.5 mm				17.5 mm			




**TIPS & TRICKS**
**SILICONE NOSE PADS MINIFITS**
*Non Slipping Plastic Frames*
**Silicone Pads Minifits**

No. 120 0400

**Ruler**

No. 120 2795

**Universal Pen**

No. 120 3040

**Tool Holder**

No. 120 2592

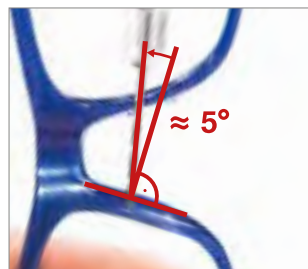
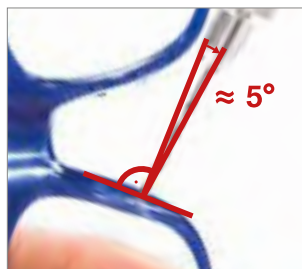
**Spiral Drill, HSS**

No. 120 2526

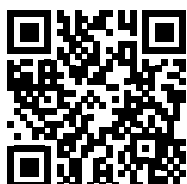


approx. 15 minutes












*This is how it works*
**1 MARK POSITION**

**2 DRILL 1<sup>ST</sup> HOLE**

**3 DRILL 2<sup>ND</sup> HOLE**

**4 MOUNT THE MINIFITS**

**5 DONE**








 YouTube


## Polycarbonate Pads, Hard

	<b>Ultra slim, especially transparent and light, "Push-in" System</b>	 12.0 mm		<b>120 0427</b> 0253 22	20 pieces		<b>Ultra slim, especially transparent and light, "Screw-in" System</b>	 12.0 mm		<b>120 0431</b> 0254 22	20 pieces
	<b>Especially transparent and light, "Push-in" System</b>	 13.0 mm	<b>f&amp;w</b>	<b>120 0424</b> 0253 12	20 pieces		<b>Especially transparent and light, "Screw-in" System</b>	 13.0 mm	<b>f&amp;w</b>	<b>120 0428</b> 0254 12	20 pieces






## Special Nose Pads and Nose Bridges

### Nose Pads for Special Applications

 7.0 mm		<b>120 0231</b> 0201 07	20 pieces	PVC	To be clipped
 14.0 mm	<b>f&amp;w</b>	<b>120 0447</b> 0267 14	10 pieces	Silicone	Pocket system
 14.0 mm	<b>f&amp;w</b>	<b>120 0400</b> 0232 01	10 pieces	Silicone	Support
 19.0 mm		<b>120 0486</b> 0277 01	3 pairs	Silicone	To be clipped on vertically

### Nose Pads for ic! berlin Frames

 14.0 mm	<b>ic! berlin</b> <small>Style. Made in Germany.</small>	<b>120 0444</b> 0264 01	4 pieces	Thermo- plastic elastomer	To be clipped on vertically
 14.0 mm	<b>ic! berlin</b> <small>Style. Made in Germany.</small>	<b>120 0445</b> 0264 02	4 pieces	Thermo- plastic elastomer	To be clipped on vertically
 14.0 mm	<b>ic! berlin</b> <small>Style. Made in Germany.</small>	<b>120 0446</b> 0264 03	4 pieces	Thermo- plastic elastomer	To be clipped on vertically

	<b>Logic®</b> , Symmetrical, "Screw-in" and "Push-in" System	 13.0 mm	<b>Logic®</b>	<b>120 0280</b> 0217 13	20 pieces	 15.0 mm	<b>Logic®</b>	<b>120 0283</b> 0217 15	20 pieces
		<b>120 0281</b> 0217 13-100			100 pieces			<b>120 0284</b> 0217 15-100	100 pieces





# Special Nose Pads and Nose Bridges

## Silicone Nose Bridges, small

14.9 mm **f&w** **120 0413** **3 pieces**  
 0241 01  
 Gold, for metal frames

14.9 mm **f&w** **120 0414** **3 pieces**  
 0241 10  
 Silver, for metal frames

## Silicone Nose Bridges, large

16.9 mm **f&w** **120 0415** **3 pieces**  
 0242 01  
 Gold, for metal frames

16.9 mm **f&w** **120 0416** **3 pieces**  
 0242 10  
 Silver, for metal frames



0.8 > 2.0 mm

## Nose Pad Components

Asymmetric nose pad component adhering to plastic frames. Can be used with e.g. Acetone No. 120 3923.

**Contents:** 6 pairs

**120 0443** 19 x 8 mm 0.8 > 2.0 mm  
 0263 00

## Special Nose Pads

**Silicone with Titanium Screw Holder, hypo-allergenic, "Screw-in" System**

**120 0442** **4 pieces**  
 0259 01

13.0 mm

## Nose Pads for Ray Ban Frames

**120 0417** **10 pieces**  
 0243 02  
 Soft-PVC With adjustable flaps

15.0 mm

**120 0418** **10 pieces**  
 0243 03  
 Soft-PVC With adjustable flaps

15.0 mm

**109 6012** **10 pieces**  
 0243 12  
 Silicone With adjustable flaps

15.0 mm

**120 0420** **10 pieces**  
 0243 13  
 Silicone With adjustable flaps

15.0 mm

Silicone

Silicone

## Hypo-allergenic Special Nose Pads



## Titanium, hypo-allergenic, "Push-in" System



f&amp;w

**120 0232**  
0203 01

4 pieces

Gun polished

13.0 mm



f&amp;w

**120 0233**  
0203 02

4 pieces

Gun matte

13.0 mm

**120 0234**  
0203 11

4 pieces

Gold polished

13.0 mm

**120 0235**  
0203 12

4 pieces

Gold matte

13.0 mm

**120 0236**  
0203 21

4 pieces

Rose gold polished

13.0 mm

**120 0237**  
0203 22

4 pieces

Rose gold matte

13.0 mm

**120 0238**  
0203 31

4 pieces

Black polished

13.0 mm

**120 0239**  
0203 32

4 pieces

Black matte

13.0 mm



## Titanium, hypo-allergenic, "Screw-in" System



f&amp;w

**120 0240**  
0204 01

4 pieces

Gun polished

13.0 mm



f&amp;w

**120 0241**  
0204 02

4 pieces

Gun matte

13.0 mm

**120 0242**  
0204 11

4 pieces

Gold polished

13.0 mm

**120 0243**  
0204 12

4 pieces

Gold matte

13.0 mm

**120 0244**  
0204 21

4 pieces

Rose gold polished

13.0 mm

**120 0245**  
0204 22

4 pieces

Rose gold matte

13.0 mm

**120 0246**  
0204 31

4 pieces

Black polished

13.0 mm

**120 0247**  
0204 32

4 pieces

Black matte

13.0 mm



## PCTG, hypo-allergenic, "Push-in" System

**121 1511**  
0294 13

20 pieces

PCTG – Polyethylenterephthalat Glycol

13.0 mm

**121 1512**  
0294 15

20 pieces

PCTG – Polyethylenterephthalat Glycol

15.0 mm



## PCTG, hypo-allergenic, "Screw-in" System

**121 1513**  
0295 13

20 pieces

PCTG – Polyethylenterephthalat Glycol

13.0 mm

**121 1514**  
0295 15

20 pieces

PCTG – Polyethylenterephthalat Glycol

15.0 mm




**TIPS & TRICKS**
**SELF-ADHESIVE NOSE PAD CUSHION**
*One Cushion, 2 Options*
**Nose Pad Cushion Assortment**

No. 109 4751

or separately:

**Self-adhesive Nose Pad Cushion**

No. 109 4752, -53, -54


*This is how it works*
**Option 1: Cut off**
**1 CLEAN THE FRAME**

**2 REMOVE HALF OF THE FOIL**

**3 STICK ON**

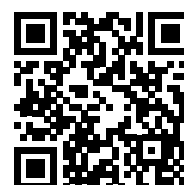
**4 CUT OFF**

**5 DONE**

**Option 2: Fold back | Repeat step 1–3**
**4 REMOVE THE FOIL**

**5 FOLD BACK THE FLAP**

**6 DONE**








 YouTube


## Nose Pad Cushion

Self-adhesive **silicone foil**.

Width: 7 mm each


**Contents:** 10 pairs

<b>109 4752</b> 0758 01	Size S		19 mm		2.0 mm
<b>109 4753</b> 0758 02	Size M		19 mm		2.4 mm
<b>109 4754</b> 0758 03	Size L		19 mm		2.7 mm



## Nose Pad Cushion Assortment

**Contents:** 10 pairs each No. 109 4752; 109 4753 and 109 4754

**109 4751**  30 pairs  
0758 50



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





**120 1052**  
0748 13

	13 mm		0.7 mm
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
**120 1053**  
0748 15

	15 mm		0.7 mm
---	-------	---	--------


**120 1054**  
0748 17

	17 mm		0.7 mm
---	-------	---	--------



**120 1055**  
0748 19

	19 mm		0.7 mm
---	-------	---	--------

**120 1056**  
0748 23

	13 mm		1.0 mm
---	-------	---	--------

**120 1057**  
0748 25

	15 mm		1.0 mm
---	-------	---	--------

**120 1058**  
0748 27

	17 mm		1.0 mm
---	-------	---	--------

**120 1059**  
0748 29


	19 mm		1.0 mm
---	-------	---	--------



Almost invisible


## Nose Pad Cushion Assortment

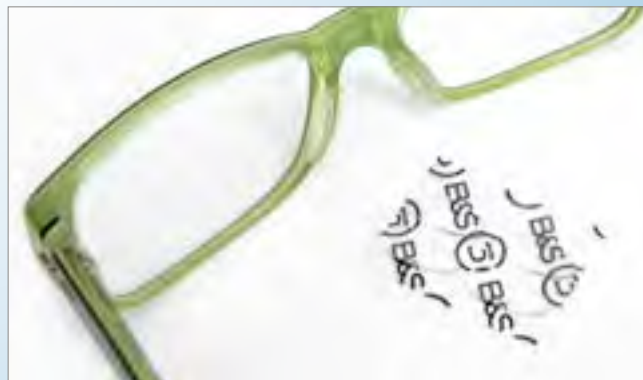
**Contents:** 20 pieces each No. 120 1052; 120 1053; 120 1054 and 120 1055

**120 1061**  80 pieces  
0748 50

## Nose Pad Cushion Assortment

**Contents:** 20 pieces each No. 120 1056; 120 1057; 120 1058 and 120 1059

**120 1062**  80 pieces  
0748 51




**TIPS & TRICKS**
**NOSE PAD ARMS FOR PLASTIC FRAMES**

*Improve Comfort!*

**Mounting Set**

No. 120 0550

or separately:

**Nose Pad Arms, Beta-titanium**

used for example: No. 120 0540

**Mounting Tool**

No. 120 0539

**Spiral Drill, HSS**

No. 120 2525

**Plastic Pad**

No. 120 0424

**Pad Screws**

No. 120 1469

**Tool Holder**

No. 120 2595

**Universal Pen**

No. 120 3040



 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**


 YouTube


## 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. 120 2525



"Push-in" System

**120 0540-49**

2 pairs

Size S 10 mm		Size L 12 mm		Size XL 16 mm	
Order No.	Colour	Order No.	Colour	Order No.	Colour
<b>120 0547</b> 0304 21	Silver	<b>120 0540</b> 0304 01	Silver	<b>120 0544</b> 0304 11	Silver
<b>120 0548</b> 0304 25	Black	<b>120 0541</b> 0304 03	Brown	<b>120 0545</b> 0304 15	Black
<b>120 0549</b> 0304 26	Gold	<b>120 0542</b> 0304 05	Black	<b>120 0546</b> 0304 16	Gold
		<b>120 0543</b> 0304 06	Gold		

"Screw-in" System

**120 0552-61**

2 pairs

Size S 10 mm		Size L 12 mm		Size XL 16 mm	
Order No.	Colour	Order No.	Colour	Order No.	Colour
<b>120 0559</b> 0305 21	Silver	<b>120 0552</b> 0305 01	Silver	<b>120 0556</b> 0305 11	Silver
<b>120 0560</b> 0305 25	Black	<b>120 0553</b> 0305 03	Brown	<b>120 0557</b> 0305 15	Black
<b>120 0561</b> 0305 26	Gold	<b>120 0554</b> 0305 05	Black	<b>120 0558</b> 0305 16	Gold
		<b>120 0555</b> 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.

With the new version of the APP you can now perfectly adjust the drilling points in horizontal and vertical direction.

**120 0534**

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

**120 0539**

0304 00



### Mounting Set Nose Pad Arms Beta Titanium

- **Contents:** Tool for nose pad arms, 16 pairs nose pad arms, required drill (No. 120 2525), matching nose pads (No. 120 0334 and 120 0361) and nose pad screws (No. 120 1469)
- In practical box

**120 0550**

0304 50

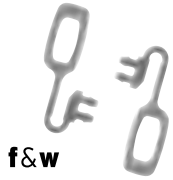
105 x 23.5 x 178 mm



The matching screws No. 120 1469, 120 1471 and 120 1474 (total length 4.0 mm; thread size 1.0 mm) are shown on page F 22.




## Nose Pad Arms for Plastic Frames



Type/Use:  
"System 3" and "System 3 Dash M"  
Colour: Silver

**120 0564**  
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


**120 0563**  
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

**120 0562**  
0306 01


 2 pieces

## Nose Pad Arms for Metal Frames



Type/Use:  
Universal application  
Colour: Silver


**120 0512**  
0288 01

 10 pieces



Type/Use:  
Universal application  
Colour: Gold


**120 0513**  
0288 02

 10 pieces



Type/Use:  
Universal application  
Colour: Silver


**120 0509**  
0287 01

 5 pairs



Type/Use:  
Universal application  
Colour: Gold

**120 0510**  
0287 02

 5 pairs



**f&w**

Type/Use:  
Universal application  
Colour: Silver

**120 0519**  
0289 01


 10 pieces



**f&w**

Type/Use:  
"System 3" and "System 3 Dash M"  
Colour: Silver

**109 2673**  
0276 01

 10 pieces



The suitable nose pads "System 3" and "System 3 Dash M" are shown on page F 7.



Handwritten text on the lid, possibly indicating lens specifications or identification numbers.





# The B&S Screw Range:

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



## Ordering in 3 Steps

**OPTION**

<b>A</b>	Ascending thread size	<b>F 24–F 34</b>
----------	-----------------------	------------------

1. Select the thread size (Option A)
2. Select the screws type
3. Select the colour

**OPTION**

<b>B</b>	Screws for special applications	<b>F 35–F 46</b>
----------	---------------------------------	------------------

1. Select your special screw (Option B)
2. Select the size
3. Select the colour

## Icons makes your selection easy

Screws for:	Shapes:	Measurements:
Nose pads	Slotted screw	Screw securer
Rim joints	Phillips screw	Thread size
Hinges	Phillips/slotted combination	Head diameter
Rimless frames	Star nut	Total length
	Hexagon screw/nut	Diameter
	Torx screw	Inner diameter
		Outer diameter

**OPTION A**

**Thread Size – assorted**

0.8–1.0 mm	F 22
1.1 mm	F 22
1.2 mm	F 23–F 24
1.3 mm	F 25
1.4 mm	F 26–F 29
1.5 mm	F 30–F 31
1.6 mm	F 30–F 31
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**

Assortments	F 45–F 46
Nuts	F 47–F 48
Washers	F 48–F 49
Sleeves	F 50–F 51



## 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	<b>120 1177</b> 0805 10	100 pieces	-



## Thread Size 1.0 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	3.80	1.80	<b>120 1389</b> 0865 01	100 pieces	-
				Steel	Gold	3.80	1.80	<b>120 1390</b> 0865 10	100 pieces	-
				German Silver	Silver	4.00	1.20	<b>120 1189</b> 0815 00	100 pieces	-
				German Silver	Silver	4.00	1.40	<b>120 1469</b> 0896 00	100 pieces	-
				German Silver	Gold	4.00	1.40	<b>120 1473</b> 0896 10	100 pieces	-
				German Silver	Gun	4.00	1.40	<b>120 1474</b> 0896 20	100 pieces	-
				German Silver	Silver	4.00	1.40	<b>120 1471</b> 0896 00TL	50 pieces	-
				Steel	Silver	4.45	1.40	<b>120 1178</b> 0807 00	100 pieces	-
				Steel	Silver	4.50	1.80	<b>120 1459</b> 0889 00	100 pieces	-
				Steel	Silver	5.80/ 2.80	1.40	<b>120 1247</b> 0819 05	100 pieces	-
				Steel	Silver	5.80/ 2.80	1.40	<b>120 1248</b> 0819 05TL	50 pieces	-
				Steel	Gold	5.80/ 2.80	1.40	<b>120 1264</b> 0819 15	100 pieces	-
				Steel	Gold	5.80/ 2.80	1.40	<b>120 1265</b> 0819 15TL	50 pieces	-
				Steel	Silver	12.80/ 2.80	1.40	<b>120 1190</b> 0816 000	50 pieces	-
				Steel	Gold	12.80/ 2.80	1.40	<b>120 1206</b> 0816 100	50 pieces	-
				Steel	Gun	12.80/ 2.80	1.40	<b>120 1218</b> 0816 200	50 pieces	-



Screw securer

# 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	<b>120 1173</b> 0803 00	100 pieces	-



## Thread Size 1.2 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	1.30	1.80	<b>120 1172</b> 0801 00	100 pieces	-
				Steel	Silver	2.60	1.60	<b>120 1377</b> 0860 40	100 pieces	-
				Steel	Silver	3.00	2.00	<b>120 1432</b> 0886 03	100 pieces	-
				Steel	Gun for plastic hinges	3.00	2.30	<b>120 1301</b> 0833 20	50 pieces	-
				Steel	Silver	3.20	1.60	<b>120 1353</b> 0853 00	100 pieces	-
				Steel	Silver	3.40	1.60	<b>120 1419</b> 0882 00	100 pieces	-
				Steel	Gold	3.40	1.60	<b>120 1420</b> 0882 10	100 pieces	-
				Steel	Silver	3.50	2.00	<b>120 1433</b> 0886 04	100 pieces	-
				Steel	Silver	3.90	2.00	<b>109 2223</b> 0886 00	100 pieces	-
				Steel	Silver	4.00	1.40	<b>120 1472</b> 0896 01	100 pieces	-
				Steel	Silver	4.00	2.00	<b>120 1434</b> 0886 05	100 pieces	-
				Steel	Silver	4.40	2.00	<b>109 2224</b> 0886 01	100 pieces	-
				Steel	Silver	4.70	1.60	<b>120 1405</b> 0871 00	100 pieces	-
				German Silver	Silver	4.80	1.60	<b>120 1235</b> 0818 00	100 pieces	-
				Steel	Silver	4.90	2.00	<b>109 2225</b> 0886 02	100 pieces	-
				Steel	Silver	5.90/ 3.50	2.00	<b>120 1243</b> 0819 03	100 pieces	-
				Steel	Silver	5.90/ 3.50	2.00	<b>120 1244</b> 0819 03TL	50 pieces	-
				Steel	Gold	5.90/ 3.50	2.00	<b>120 1260</b> 0819 13	100 pieces	-
				Steel	Gold	5.90/ 3.50	2.00	<b>120 1261</b> 0819 13TL	50 pieces	-


Screw securer



## 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	<b>120 1272</b> 0819 23	100 pieces	–
				Steel	Gun	5.90/ 3.50	2.00	<b>120 1273</b> 0819 23TL	50 pieces	–
				Steel	Silver	7.00	2.00	<b>120 1421</b> 0883 00	100 pieces	–
				Steel	Silver	7.00/ 4.00	2.00	<b>120 1253</b> 0819 08	100 pieces	–
				Steel	Silver	7.50/ 4.50	2.00	<b>120 1254</b> 0819 09	100 pieces	–
				Steel	Silver	10.00	2.40	<b>120 1425</b> 0885 00	100 pieces	–
				Steel	Silver	11.60	2.00	<b>109 4234</b> 0888 00	25 pieces	–
				Steel	Gold	11.60	2.00	<b>109 4240</b> 0888 10	25 pieces	–
				Steel	Black	11.60	2.00	<b>109 4246</b> 0888 20	25 pieces	–
				German Silver	Silver	12.00	1.80	<b>120 1295</b> 0831 00	100 pieces	<b>120 1277</b> 0822 01TL
				Brass	Gold	12.00	1.80	<b>120 1296</b> 0831 10	100 pieces	<b>120 1279</b> 0822 02TL
				Brass	Gun	12.00	1.80	<b>120 1297</b> 0831 20	100 pieces	<b>120 1280</b> 0822 03
				German Silver	Silver	12.00	2.50	<b>120 1319</b> 0841 01	100 pieces	<b>120 1277</b> 0822 01TL
				German Silver	Gold	12.00	2.50	<b>120 1321</b> 0841 11	100 pieces	<b>120 1279</b> 0822 02TL
				Steel	Silver	12.60	2.20	<b>120 1367</b> 0858 00	100 pieces	<b>120 1277</b> 0822 01TL
				Steel	Gold	12.60	2.20	<b>120 1369</b> 0858 10	100 pieces	<b>120 1279</b> 0822 02TL
				Steel	Silver	14.80/ 4.80	1.80	<b>120 1191</b> 0816 001	50 pieces	–
				Steel	Gold	14.80/ 4.80	1.80	<b>120 1207</b> 0816 101	50 pieces	–
				Steel	Gun	14.80/ 4.80	1.80	<b>120 1219</b> 0816 201	50 pieces	–
				German Silver	Silver	15.00	1.80	<b>120 1333</b> 0843 00	100 pieces	<b>120 1277</b> 0822 01TL
				Steel	Silver	15.50/ 5.50	1.80	<b>120 1202</b> 0816 012	50 pieces	–



Screw securer

# Screws ascending Thread Size








































































































## Thread Size 1.3 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	3.50	1.70	<b>120 1416</b> 0880 00	100 pieces	-
				Steel	Gold	3.50	1.70	<b>120 1417</b> 0880 10	100 pieces	-
				German Silver	Silver	5.30	1.70	<b>120 1175</b> 0804 00	100 pieces	-
				German Silver	Gun	5.30	1.70	<b>120 1176</b> 0804 20	100 pieces	-
				Steel	Silver	6.50/ 3.50	2.00	<b>120 1249</b> 0819 06	100 pieces	-
				Steel	Silver	6.50/ 3.50	2.00	<b>120 1250</b> 0819 06TL	50 pieces	-
				Steel	Gold	6.50/ 3.50	2.00	<b>120 1266</b> 0819 16	100 pieces	-
				Steel	Gold	6.50/ 3.50	2.00	<b>120 1267</b> 0819 16TL	50 pieces	-
				Steel	Silver	7.00	1.80	<b>120 1382</b> 0861 00	100 pieces	-
				German Silver	Silver	8.00	2.80	<b>120 1341</b> 0848 00	100 pieces	-
				Steel	Silver	11.50	1.80	<b>120 1383</b> 0861 01	50 pieces	-
				Steel	Gold	11.50	1.80	<b>120 1384</b> 0861 11	50 pieces	-
				Steel	Silver	11.60	2.00	<b>109 4235</b> 0888 01	25 pieces	-
				Steel	Gold	11.60	2.00	<b>109 4241</b> 0888 11	25 pieces	-
				Steel	Black	11.60	2.00	<b>109 4247</b> 0888 21	25 pieces	-
				Steel	Silver	14.80/ 4.80	1.80	<b>120 1192</b> 0816 002	50 pieces	-
				Steel	Gold	14.80/ 4.80	1.80	<b>120 1208</b> 0816 102	50 pieces	-
				Steel	Gun	14.80/ 4.80	1.80	<b>120 1220</b> 0816 202	50 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	<b>120 1347</b> 0851 01	100 pieces	-
				Steel	Silver	3.00	2.00	<b>120 1180</b> 0811 00	50 pieces	-
				Steel	Silver	3.00	2.00	<b>120 1438</b> 0887 03	100 pieces	-
				Steel	Silver	3.10	2.00	<b>120 1410</b> 0874 00	100 pieces	-
				Steel	Silver	3.30	2.00	<b>120 1401</b> 0869 01	100 pieces	-
				Steel	Silver	3.40	1.80	<b>120 1348</b> 0851 02	100 pieces	-
				Steel	Silver	3.45	2.00	<b>120 1356</b> 0854 00	100 pieces	-
				Steel	Silver	3.50	2.00	<b>120 1181</b> 0811 01	50 pieces	-
				Steel	Silver	3.50	2.00	<b>120 1439</b> 0887 04	100 pieces	-
				Steel	Silver	3.60	2.00	<b>120 1422</b> 0884 00	100 pieces	-
				Steel	Silver	3.70	2.00	<b>120 1402</b> 0869 02	100 pieces	-
				Steel	Silver	3.90	2.00	<b>120 1400</b> 0869 00	100 pieces	-
				Steel	Silver	3.90	1.80	<b>120 1406</b> 0872 00	100 pieces	-
				Steel	Gold	3.90	1.80	<b>120 1407</b> 0872 10	100 pieces	-
				Steel	Gun	3.90	1.80	<b>120 1408</b> 0872 20	100 pieces	-
				Steel	Silver	3.90	2.00	<b>109 2226</b> 0887 00	100 pieces	-
				Steel	Silver	4.00	1.80	<b>120 1349</b> 0851 03	100 pieces	-
				Steel	Silver	4.00	2.00	<b>120 1411</b> 0876 00	100 pieces	-
				Steel	Silver	4.00	2.00	<b>120 1182</b> 0811 02	50 pieces	-
				Steel	Silver	4.00	2.00	<b>120 1440</b> 0887 05	100 pieces	-
				Steel	Silver	4.10	1.80	<b>120 1378</b> 0860 55	100 pieces	-
				German Silver	Silver	4.20	1.80	<b>120 1188</b> 0814 00	200 pieces	-
				Steel	Silver	4.20	1.80	<b>120 1412</b> 0876 01	100 pieces	-
				Steel	Silver	4.20	2.00	<b>120 1403</b> 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	<b>120 1346</b> 0851 00	100 pieces	-
				Steel	Silver	4.30	2.00	<b>120 1394</b> 0867 00	100 pieces	-
				Steel	Gold	4.30	2.00	<b>120 1399</b> 0868 00	100 pieces	-
				Steel	Silver	4.40	1.80	<b>120 1409</b> 0873 00	100 pieces	-
				Steel	Silver	4.40	2.00	<b>120 1423</b> 0884 01	100 pieces	-
			 TX4	Steel	Silver	4.40	2.00	<b>109 2227</b> 0887 01	100 pieces	-
				Steel	Silver	4.50	2.00	<b>120 1183</b> 0811 03	50 pieces	-
				Steel	Silver	4.70	2.00	<b>120 1424</b> 0884 02	100 pieces	-
				German Silver	Silver	4.80	2.50	<b>120 1275</b> 0821 00	100 pieces	-
			 TX4	Steel	Silver	4.90	2.00	<b>109 2228</b> 0887 02	100 pieces	-
				German Silver	Silver	5.00	1.80	<b>120 1274</b> 0820 00	200 pieces	-
				Steel	Silver	5.20	1.80	<b>120 1373</b> 0860 20	100 pieces	-
				German Silver	Silver	5.40	1.80	<b>120 1350</b> 0852 00	100 pieces	-
				Steel	Silver	6.00	1.80	<b>120 1379</b> 0860 58	100 pieces	-
				Steel	Silver	6.00	1.80	<b>120 1381</b> 0860 58TL	50 pieces	-
				Steel	Silver	6.50	1.80	<b>120 1374</b> 0860 30	100 pieces	-
				Steel	Silver	6.50	1.80	<b>120 1376</b> 0860 30TL	50 pieces	-
				Steel	Silver	6.50	2.00	<b>120 1187</b> 0813 00	100 pieces	-
				Steel	Silver	6.50/ 3.50	2.00	<b>120 1236</b> 0819 00	100 pieces	-
				Steel	Silver	6.50/ 3.50	2.00	<b>120 1237</b> 0819 00TL	50 pieces	-
				Steel	Silver	7.00/ 4.00	2.00	<b>120 1238</b> 0819 01	100 pieces	-
				Steel	Silver	7.00/ 4.00	2.00	<b>120 1241</b> 0819 01TL	50 pieces	-
				Steel	Silver	7.80/ 4.80	2.00	<b>120 1242</b> 0819 02	100 pieces	-
				Steel	Gold	6.50/ 3.50	2.00	<b>120 1255</b> 0819 10	100 pieces	-






















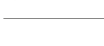
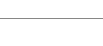































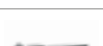










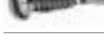



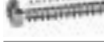



































## Screws ascending Thread Size



## Thread Size 1.4 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Gold	6.50/ 3.50	2.00	<b>120 1256</b> 0819 10TL	50 pieces	-
				Steel	Gold	7.00/ 4.00	2.00	<b>120 1257</b> 0819 11	100 pieces	-
				Steel	Gold	7.00/ 4.00	2.00	<b>120 1258</b> 0819 11TL	50 pieces	-
				Steel	Gold	7.80/ 4.80	2.00	<b>120 1259</b> 0819 12	100 pieces	-
				Steel	Gun	6.50/ 3.50	2.00	<b>120 1270</b> 0819 20	100 pieces	-
				Steel	Gun	6.50/ 3.50	2.00	<b>120 1271</b> 0819 20TL	50 pieces	-
				Steel for plastic hinges	Silver	7.80	2.00	<b>120 1357</b> 0855 00	50 pieces	-
				German Silver	Silver	8.60	2.80	<b>120 1292</b> 0828 10	100 pieces	-
				Steel	Silver	8.50/ 5.50	2.00	<b>120 1239</b> 0819 010	100 pieces	-
				Steel	Silver	9.50/ 6.50	2.00	<b>120 1240</b> 0819 011	100 pieces	-
				Steel	Silver	10.00	2.80	<b>120 1426</b> 0885 01	100 pieces	-
				Steel	Silver	10.60/ 3.60	1.80	<b>120 1230</b> 0817 00	100 pieces	-
				Steel	Gold	10.60/ 3.60	1.80	<b>120 1233</b> 0817 10	100 pieces	-
				Steel	Gun	10.60/ 3.60	1.80	<b>120 1234</b> 0817 20	100 pieces	-
				Steel	Silver for plastic hinges	10.80	2.00	<b>120 1358</b> 0855 01	50 pieces	-
				German Silver	Silver	11.40	2.80	<b>120 1288</b> 0824 11	100 pieces	120 1284 0824 01TL
				Steel	Silver	11.50	1.80	<b>120 1385</b> 0862 01	50 pieces	-
				Steel	Gold	11.50	1.80	<b>120 1386</b> 0862 11	50 pieces	-
				Steel	Silver	11.60	2.00	<b>109 4236</b> 0888 02	25 pieces	-
				Steel	Gold	11.60	2.00	<b>109 4242</b> 0888 12	25 pieces	-
				Steel	Black	11.60	2.00	<b>109 4248</b> 0888 22	25 pieces	-
				German Silver	Silver	12.00	2.50	<b>120 1318</b> 0841 00	100 pieces	120 1284 0824 01TL
				Brass	Gold	12.00	2.50	<b>120 1320</b> 0841 10	100 pieces	120 1286 0824 02TL
				German Silver	Gun	12.00	2.50	<b>120 1322</b> 0841 20	100 pieces	120 1287 0824 03



Screw securer

# Screws ascending Thread Size



## Thread Size 1.4 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	12.60	2.20	<b>120 1368</b> 0858 01	100 pieces	120 1284 0824 01TL
				Steel	Gold	12.60	2.20	<b>120 1370</b> 0858 11	100 pieces	120 1286 0824 02TL
				Steel	Silver	13.00/ 3.00	1.80	<b>120 1193</b> 0816 003	50 pieces	-
				Steel	Gold	13.00/ 3.00	1.80	<b>120 1209</b> 0816 103	50 pieces	-
				Steel	Gun	13.00/ 3.00	1.80	<b>120 1221</b> 0816 203	50 pieces	-
				Steel	Silver	14.80/ 4.80	1.80	<b>120 1194</b> 0816 004	50 pieces	-
				Steel	Gold	14.80/ 4.80	1.80	<b>120 1210</b> 0816 104	50 pieces	-
				Steel	Gun	14.80/ 4.80	1.80	<b>120 1222</b> 0816 204	50 pieces	-
				Steel	Silver	13.50/ 3.50	2.00	<b>120 1197</b> 0816 007	50 pieces	-
				Steel	Gold	13.50/ 3.50	2.00	<b>120 1213</b> 0816 107	50 pieces	-
				Steel	Gun	13.50/ 3.50	2.00	<b>120 1225</b> 0816 207	50 pieces	-
				Steel	Silver	14.00/ 4.00	2.00	<b>120 1198</b> 0816 008	50 pieces	-
				Steel	Gold	14.00/ 4.00	2.00	<b>120 1214</b> 0816 108	50 pieces	-
				Steel	Gun	14.00/ 4.00	2.00	<b>120 1226</b> 0816 208	50 pieces	-
				Steel	Silver	14.80/ 4.80	2.00	<b>120 1199</b> 0816 009	50 pieces	-
				Steel	Gold	14.80/ 4.80	2.00	<b>120 1215</b> 0816 109	50 pieces	-
				Steel	Gun	14.80/ 4.80	2.00	<b>120 1227</b> 0816 209	50 pieces	-
				German Silver	Silver	15.00	1.80	<b>120 1334</b> 0843 01	100 pieces	120 1284 0824 01TL
				Steel	Silver	15.50/ 5.50	2.00	<b>120 1203</b> 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	<b>120 1340</b> 0845 15	100 pieces	-
				Steel for plastic hinges	Silver	5.00	2.00	<b>120 1361</b> 0855 04	50 pieces	-
				Steel	Silver	5.20	1.80	<b>120 1323</b> 0842 00	100 pieces	-
				Steel	Silver	5.20	1.80	<b>120 1325</b> 0842 00TL	50 pieces	-
				Steel	Silver	6.50/ 3.50	2.00	<b>120 1251</b> 0819 07	100 pieces	-
				Steel	Silver	6.50/ 3.50	2.00	<b>120 1252</b> 0819 07TL	50 pieces	-
				Steel	Gold	6.50/ 3.50	2.00	<b>120 1268</b> 0819 17	100 pieces	-
				Steel	Gold	6.50/ 3.50	2.00	<b>120 1269</b> 0819 17TL	50 pieces	-
				German Silver	Silver	10.00	2.80	<b>120 1291</b> 0827 00	100 pieces	-
				Steel	Silver	11.50	1.80	<b>120 1387</b> 0863 01	50 pieces	-
				Steel	Gold	11.50	1.80	<b>120 1388</b> 0863 11	50 pieces	-
				Steel	Silver	11.60	2.00	<b>109 4237</b> 0888 03	25 pieces	-
				Steel	Gold	11.60	2.00	<b>109 4243</b> 0888 13	25 pieces	-
				Steel	Black	11.60	2.00	<b>109 4249</b> 0888 23	25 pieces	-
				Steel	Silver	14.00/ 4.00	1.80	<b>120 1195</b> 0816 005	50 pieces	-
				Steel	Gold	14.00/ 4.00	1.80	<b>120 1211</b> 0816 105	50 pieces	-
				Steel	Gun	14.00/ 4.00	1.80	<b>120 1223</b> 0816 205	50 pieces	-
				Steel	Silver	14.80/ 4.80	1.80	<b>120 1196</b> 0816 006	50 pieces	-
				Steel	Gold	14.80/ 4.80	1.80	<b>120 1212</b> 0816 106	50 pieces	-
				Steel	Gun	14.80/ 4.80	1.80	<b>120 1224</b> 0816 206	50 pieces	-
				Steel	Silver	14.00/ 4.00	2.00	<b>120 1200</b> 0816 010	50 pieces	-
				Steel	Gold	14.00/ 4.00	2.00	<b>120 1216</b> 0816 110	50 pieces	-
				Steel	Gun	14.00/ 4.00	2.00	<b>120 1228</b> 0816 210	50 pieces	-
				Steel	Silver	14.80/ 4.80	2.00	<b>120 1201</b> 0816 011	50 pieces	-

# Screws ascending Thread Size



## Thread Size 1.5 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Gold	14.80/4.80	2.00	<b>120 1217</b> 0816 111	50 pieces	-
				Steel	Gun	14.80/4.80	2.00	<b>120 1229</b> 0816 211	50 pieces	-



## Thread Size 1.6 mm


















		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	3.50	2.50	<b>120 1184</b> 0811 04	50 pieces	-
				Steel for plastic hinges	Silver	4.00	2.50	<b>120 1363</b> 0855 06	50 pieces	-
				Steel	Silver	4.00	2.50	<b>120 1185</b> 0811 05	50 pieces	-
				Steel	Silver	4.60	2.50	<b>120 1186</b> 0811 06	50 pieces	-
				Steel	Silver	5.20	1.80	<b>120 1326</b> 0842 01	100 pieces	-
				Steel	Silver	5.20	1.80	<b>120 1328</b> 0842 01TL	50 pieces	-
				Steel for plastic hinges	Silver	5.20	2.50	<b>120 1364</b> 0855 07	50 pieces	-
				Steel for plastic hinges	Silver	6.00	2.50	<b>120 1362</b> 0855 05	50 pieces	-
				Steel	Silver	6.50/3.50	2.00	<b>120 1245</b> 0819 04	100 pieces	-
				Steel	Silver	6.50/3.50	2.00	<b>120 1246</b> 0819 04TL	50 pieces	-
				Steel	Gold	6.50/3.50	2.00	<b>120 1262</b> 0819 14	100 pieces	-
				Steel	Gold	6.50/3.50	2.00	<b>120 1263</b> 0819 14TL	50 pieces	-
				Steel for plastic hinges	Silver	7.80	2.00	<b>120 1359</b> 0855 02	50 pieces	-
				German Silver	Silver	9.00	2.80	<b>120 1306</b> 0837 10	100 pieces	-
				Steel	Silver	10.00	2.80	<b>120 1428</b> 0885 03	100 pieces	-
				Steel for plastic hinges	Silver	10.80	2.00	<b>120 1360</b> 0855 03	50 pieces	-



## Screws ascending Thread Size



## Thread Size 1.6 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	11.60	2.00	<b>109 4238</b> 0888 04	25 pieces	–
				Steel	Gold	11.60	2.00	<b>109 4244</b> 0888 14	25 pieces	–
				Steel	Black	11.60	2.00	<b>109 4250</b> 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	<b>120 1303</b> 0834 00	100 pieces	–



## Thread Size 1.8 mm

		Function	Screw head	Material	Colour			Order No.		Matching nut
				Steel	Silver	11.60	2.00	<b>109 4239</b> 0888 05	25 pieces	–
				Steel	Gold	11.60	2.00	<b>109 4245</b> 0888 15	25 pieces	–
				Steel	Black	11.60	2.00	<b>109 4251</b> 0888 25	25 pieces	–




**TIPS & TRICKS**

## Complete 4 jobs in 1!

**4-in-1-Screw**

used for example:  
No. 120 1227

**Pro Screwdriver**

No. 120 2161

**Screw Holder Tweezer**

No. 120 2156



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**


 YouTube



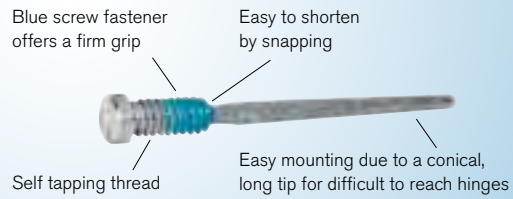
# Special Screws

## 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.

















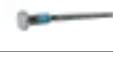










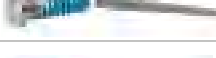


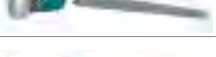


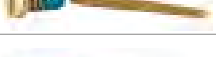


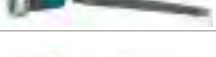


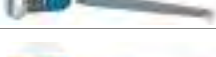



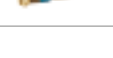
























### 4-in-1 Screws



		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.00	12.80/ 2.80	1.40	<b>120 1190</b> 0816 000	50 pieces	-
			Steel	Gold	1.00	12.80/ 2.80	1.40	<b>120 1206</b> 0816 100	50 pieces	-
			Steel	Gun	1.00	12.80/ 2.80	1.40	<b>120 1218</b> 0816 200	50 pieces	-
			Steel	Silver	1.20	14.80/ 4.80	1.80	<b>120 1191</b> 0816 001	50 pieces	-
			Steel	Gold	1.20	14.80/ 4.80	1.80	<b>120 1207</b> 0816 101	50 pieces	-
			Steel	Gun	1.20	14.80/ 4.80	1.80	<b>120 1219</b> 0816 201	50 pieces	-
			Steel	Silver	1.20	15.50/ 5.50	1.80	<b>120 1202</b> 0816 012	50 pieces	-
			Steel	Silver	1.30	14.80/ 4.80	1.80	<b>120 1192</b> 0816 002	50 pieces	-
			Steel	Gold	1.30	14.80/ 4.80	1.80	<b>120 1208</b> 0816 102	50 pieces	-
			Steel	Gun	1.30	14.80/ 4.80	1.80	<b>120 1220</b> 0816 202	50 pieces	-
			Steel	Silver	1.40	13.00/ 3.00	1.80	<b>120 1193</b> 0816 003	50 pieces	-
			Steel	Gold	1.40	13.00/ 3.00	1.80	<b>120 1209</b> 0816 103	50 pieces	-
			Steel	Gun	1.40	13.00/ 3.00	1.80	<b>120 1221</b> 0816 203	50 pieces	-
			Steel	Silver	1.40	14.80/ 4.80	1.80	<b>120 1194</b> 0816 004	50 pieces	-
			Steel	Gold	1.40	14.80/ 4.80	1.80	<b>120 1210</b> 0816 104	50 pieces	-
			Steel	Gun	1.40	14.80/ 4.80	1.80	<b>120 1222</b> 0816 204	50 pieces	-
			Steel	Silver	1.40	13.50/ 3.50	2.00	<b>120 1197</b> 0816 007	50 pieces	-
			Steel	Gold	1.40	13.50/ 3.50	2.00	<b>120 1213</b> 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	<b>120 1225</b> 0816 207	50 pieces	-
			Steel	Silver	1.40	14.00/ 4.00	2.00	<b>120 1198</b> 0816 008	50 pieces	-
			Steel	Gold	1.40	14.00/ 4.00	2.00	<b>120 1214</b> 0816 108	50 pieces	-
			Steel	Gun	1.40	14.00/ 4.00	2.00	<b>120 1226</b> 0816 208	50 pieces	-
			Steel	Silver	1.40	14.80/ 4.80	2.00	<b>120 1199</b> 0816 009	50 pieces	-
			Steel	Gold	1.40	14.80/ 4.80	2.00	<b>120 1215</b> 0816 109	50 pieces	-
			Steel	Gun	1.40	14.80/ 4.80	2.00	<b>120 1227</b> 0816 209	50 pieces	-
			Steel	Silver	1.40	15.50/ 5.50	2.00	<b>120 1203</b> 0816 013	50 pieces	-
			Steel	Silver	1.50	14.00/ 4.00	1.80	<b>120 1195</b> 0816 005	50 pieces	-
			Steel	Gold	1.50	14.00/ 4.00	1.80	<b>120 1211</b> 0816 105	50 pieces	-
			Steel	Gun	1.50	14.00/ 4.00	1.80	<b>120 1223</b> 0816 205	50 pieces	-
			Steel	Silver	1.50	14.80/ 4.80	1.80	<b>120 1196</b> 0816 006	50 pieces	-
			Steel	Gold	1.50	14.80/ 4.80	1.80	<b>120 1212</b> 0816 106	50 pieces	-
			Steel	Gun	1.50	14.80/ 4.80	1.80	<b>120 1224</b> 0816 206	50 pieces	-
			Steel	Silver	1.50	14.00/ 4.00	2.00	<b>120 1200</b> 0816 010	50 pieces	-
			Steel	Gold	1.50	14.00/ 4.00	2.00	<b>120 1216</b> 0816 110	50 pieces	-
			Steel	Gun	1.50	14.00/ 4.00	2.00	<b>120 1228</b> 0816 210	50 pieces	-
			Steel	Silver	1.50	14.80/ 4.80	2.00	<b>120 1201</b> 0816 011	50 pieces	-
			Steel	Gold	1.50	14.80/ 4.80	2.00	<b>120 1217</b> 0816 111	50 pieces	-
			Steel	Gun	1.50	14.80/ 4.80	2.00	<b>120 1229</b> 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)

**120 1204**  
0816 050

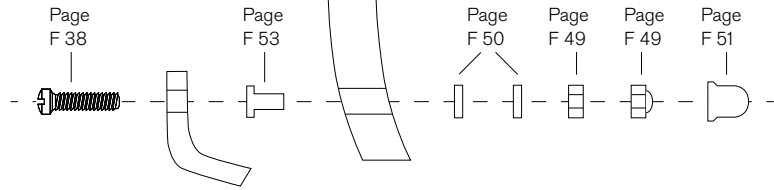




# Special Screws

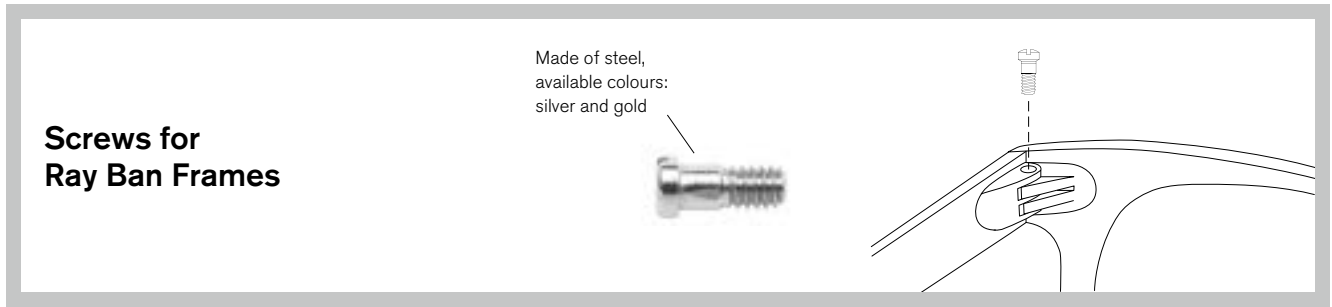
## Rimless Frame Screws

You will find the following parts on



		Screw head	Material	Colour				Order No.		Matching nut
			German Silver	Silver	1.20	12.00	1.80	<b>120 1295</b> 0831 00	100 pieces	<b>120 1277</b> 0822 01TL
			Brass	Gold	1.20	12.00	1.80	<b>120 1296</b> 0831 10	100 pieces	<b>120 1279</b> 0822 02TL
			Brass	Gun	1.20	12.00	1.80	<b>120 1297</b> 0831 20	100 pieces	<b>120 1280</b> 0822 03
			German Silver	Silver	1.20	12.00	2.50	<b>120 1319</b> 0841 01	100 pieces	<b>120 1277</b> 0822 01TL
			German Silver	Gold	1.20	12.00	2.50	<b>120 1321</b> 0841 11	100 pieces	<b>120 1279</b> 0822 02TL
			Steel	Silver	1.20	12.60	2.20	<b>120 1367</b> 0858 00	100 pieces	<b>120 1277</b> 0822 01TL
			Steel	Gold	1.20	12.60	2.20	<b>120 1369</b> 0858 10	100 pieces	<b>120 1279</b> 0822 02TL
			German Silver	Silver	1.20	15.00	1.80	<b>120 1333</b> 0843 00	100 pieces	<b>120 1277</b> 0822 01TL
			German Silver	Silver	1.40	12.00	2.50	<b>120 1318</b> 0841 00	100 pieces	<b>120 1284</b> 0824 01TL
			Brass	Gold	1.40	12.00	2.50	<b>120 1320</b> 0841 10	100 pieces	<b>120 1286</b> 0824 02TL
			German Silver	Gun	1.40	12.00	2.50	<b>120 1322</b> 0841 20	100 pieces	<b>120 1287</b> 0824 03
			Steel	Silver	1.40	12.60	2.20	<b>120 1368</b> 0858 01	100 pieces	<b>120 1284</b> 0824 01TL
			Steel	Gold	1.40	12.60	2.20	<b>120 1370</b> 0858 11	100 pieces	<b>120 1286</b> 0824 02TL
			German Silver	Silver	1.40	15.00	1.80	<b>120 1334</b> 0843 01	100 pieces	<b>120 1284</b> 0824 01TL

# Special Screws



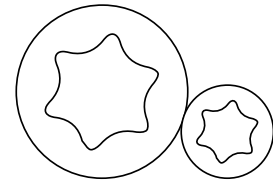
		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.20	3.40	1.60	<b>120 1419</b> 0882 00	100 pieces	-
			Steel	Gold	1.20	3.40	1.60	<b>120 1420</b> 0882 10	100 pieces	-
			Steel	Silver	1.20	7.00	2.00	<b>120 1421</b> 0883 00	100 pieces	-
			Steel	Silver	1.30	3.50	1.70	<b>120 1416</b> 0880 00	100 pieces	-
			Steel	Gold	1.30	3.50	1.70	<b>120 1417</b> 0880 10	100 pieces	-
			Steel	Silver	1.40	3.60	2.00	<b>120 1422</b> 0884 00	100 pieces	-
			Steel	Silver	1.40	4.40	2.00	<b>120 1423</b> 0884 01	100 pieces	-
			Steel	Silver	1.40	4.70	2.00	<b>120 1424</b> 0884 02	100 pieces	-
			Steel	Silver	1.60	4.00	2.50	<b>120 1185</b> 0811 05	50 pieces	-
			Steel	Silver	1.60	4.60	2.50	<b>120 1186</b> 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	<b>120 1459</b> 0889 00	100 pieces	-

### Torx Screws TX3

		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.20	3.00	2.00	<b>120 1432</b> 0886 03	100 pieces	-
			Steel	Silver	1.20	3.50	2.00	<b>120 1433</b> 0886 04	100 pieces	-
			Steel	Silver	1.20	3.90	2.00	<b>109 2223</b> 0886 00	100 pieces	-
			Steel	Silver	1.20	4.00	2.00	<b>120 1434</b> 0886 05	100 pieces	-
			Steel	Silver	1.20	4.40	2.00	<b>109 2224</b> 0886 01	100 pieces	-
			Steel	Silver	1.20	4.90	2.00	<b>109 2225</b> 0886 02	100 pieces	-

### Torx Screws TX4

		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.40	3.00	2.00	<b>120 1438</b> 0887 03	100 pieces	-
			Steel	Silver	1.40	3.50	2.00	<b>120 1439</b> 0887 04	100 pieces	-
			Steel	Silver	1.40	3.90	2.00	<b>109 2226</b> 0887 00	100 pieces	-
			Steel	Silver	1.40	4.00	2.00	<b>120 1440</b> 0887 05	100 pieces	-
			Steel	Silver	1.40	4.40	2.00	<b>109 2227</b> 0887 01	100 pieces	-
			Steel	Silver	1.40	4.90	2.00	<b>109 2228</b> 0887 02	100 pieces	-



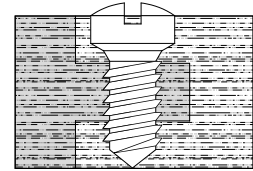
You will find our Torx drivers on page C 9.


































# Special Screws

## Screws for Plastic Hinges

Made of steel, available colours: silver and gun

Coarse thread especially for plastic



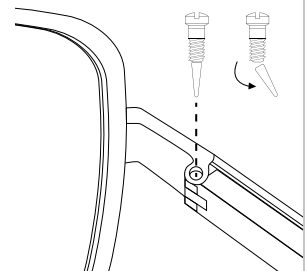
		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Gun	1.20	3.00	2.30	<b>120 1301</b> 0833 20	50 pieces	-
			Steel	Silver	1.40	7.80	2.00	<b>120 1357</b> 0855 00	50 pieces	-
			Steel	Silver	1.40	10.80	2.00	<b>120 1358</b> 0855 01	50 pieces	-
			Steel	Silver	1.50	5.00	2.00	<b>120 1361</b> 0855 04	50 pieces	-
			Steel	Silver	1.60	4.00	2.50	<b>120 1363</b> 0855 06	50 pieces	-
			Steel	Silver	1.60	5.20	2.50	<b>120 1364</b> 0855 07	50 pieces	-
			Steel	Silver	1.60	6.00	2.50	<b>120 1362</b> 0855 05	50 pieces	-
			Steel	Silver	1.60	7.80	2.00	<b>120 1359</b> 0855 02	50 pieces	-
			Steel	Silver	1.60	10.80	2.00	<b>120 1360</b> 0855 03	50 pieces	-



















## Spring Hinge Screws

Made of steel, available colours: silver, gold and gun

Simple to mount due to a conical tip






































































Easy to shorten by snapping



		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.00	5.80/ 2.80	1.40	<b>120 1247</b> 0819 05	100 pieces	-
			Steel	Gold	1.00	5.80/ 2.80	1.40	<b>120 1264</b> 0819 15	100 pieces	-
			Steel	Silver	1.20	5.90/ 3.50	2.00	<b>120 1243</b> 0819 03	100 pieces	-
			Steel	Gold	1.20	5.90/ 3.50	2.00	<b>120 1260</b> 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	<b>120 1272</b> 0819 23	100 pieces	-
			Steel	Silver	1.20	7.00/ 4.00	2.00	<b>120 1253</b> 0819 08	100 pieces	-
			Steel	Silver	1.20	7.50/ 4.50	2.00	<b>120 1254</b> 0819 09	100 pieces	-
			Steel	Silver	1.30	6.50/ 3.50	2.00	<b>120 1249</b> 0819 06	100 pieces	-
			Steel	Gold	1.30	6.50/ 3.50	2.00	<b>120 1266</b> 0819 16	100 pieces	-
			Steel	Silver	1.40	6.50/ 3.50	2.00	<b>120 1236</b> 0819 00	100 pieces	-
			Steel	Silver	1.40	7.00/ 4.00	2.00	<b>120 1238</b> 0819 01	100 pieces	-
			Steel	Silver	1.40	7.80/ 4.80	2.00	<b>120 1242</b> 0819 02	100 pieces	-
			Steel	Gold	1.40	6.50/ 3.50	2.00	<b>120 1255</b> 0819 10	100 pieces	-
			Steel	Gold	1.40	7.00/ 4.00	2.00	<b>120 1257</b> 0819 11	100 pieces	-
			Steel	Gold	1.40	7.80/ 4.80	2.00	<b>120 1259</b> 0819 12	100 pieces	-
			Steel	Gun	1.40	6.50/ 3.50	2.00	<b>120 1270</b> 0819 20	100 pieces	-
			Steel	Silver	1.40	8.50/ 5.50	2.00	<b>120 1239</b> 0819 010	100 pieces	-
			Steel	Silver	1.40	9.50/ 6.50	2.00	<b>120 1240</b> 0819 011	100 pieces	-
			Steel	Silver	1.40	10.60/ 3.60	1.80	<b>120 1230</b> 0817 00	100 pieces	-
			Steel	Gold	1.40	10.60/ 3.60	1.80	<b>120 1233</b> 0817 10	100 pieces	-
			Steel	Gun	1.40	10.60/ 3.60/	1.80	<b>120 1234</b> 0817 20	100 pieces	-
			Steel	Silver	1.50	6.50/ 3.50	2.00	<b>120 1251</b> 0819 07	100 pieces	-
			Steel	Gold	1.50	6.50/ 3.50	2.00	<b>120 1268</b> 0819 17	100 pieces	-
			Steel	Silver	1.60	6.50/ 3.50	2.00	<b>120 1245</b> 0819 04	100 pieces	-
			Steel	Gold	1.60	6.50/ 3.50	2.00	<b>120 1262</b> 0819 14	100 pieces	-

# Special Screws

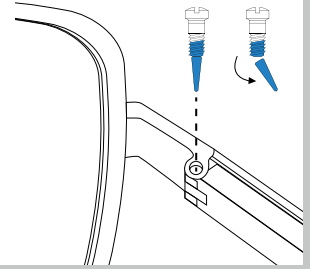
## Spring Hinge Screws with blue Screw Securer










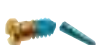












































Made of steel, available colours: silver, gold and gun

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	<b>120 1248</b> 0819 05TL	50 pieces	-
			Steel	Gold	1.00	5.80/ 2.80	1.40	<b>120 1265</b> 0819 15TL	50 pieces	-
			Steel	Silver	1.20	5.90/ 3.50	2.00	<b>120 1244</b> 0819 03TL	50 pieces	-
			Steel	Gold	1.20	5.90/ 3.50	2.00	<b>120 1261</b> 0819 13TL	50 pieces	-
			Steel	Gun	1.20	5.90/ 3.50	2.00	<b>120 1273</b> 0819 23TL	50 pieces	-
			Steel	Silver	1.30	6.50/ 3.50	2.00	<b>120 1250</b> 0819 06TL	50 pieces	-
			Steel	Gold	1.30	6.50/ 3.50	2.00	<b>120 1267</b> 0819 16TL	50 pieces	-
			Steel	Silver	1.40	6.50/ 3.50	2.00	<b>120 1237</b> 0819 00TL	50 pieces	-
			Steel	Silver	1.40	7.00/ 4.00	2.00	<b>120 1241</b> 0819 01TL	50 pieces	-
			Steel	Gold	1.40	6.50/ 3.50	2.00	<b>120 1256</b> 0819 10TL	50 pieces	-
			Steel	Gold	1.40	7.00/ 4.00	2.00	<b>120 1258</b> 0819 11TL	50 pieces	-
			Steel	Gun	1.40	6.50/ 3.50	2.00	<b>120 1271</b> 0819 20TL	50 pieces	-
			Steel	Silver	1.50	6.50/ 3.50	2.00	<b>120 1252</b> 0819 07TL	50 pieces	-
			Steel	Gold	1.50	6.50/ 3.50	2.00	<b>120 1269</b> 0819 17TL	50 pieces	-
			Steel	Silver	1.60	6.50/ 3.50	2.00	<b>120 1246</b> 0819 04TL	50 pieces	-
			Steel	Gold	1.60	6.50/ 3.50	2.00	<b>120 1263</b> 0819 14TL	50 pieces	-



# Special Screws

## Hilco Logic® Screws


































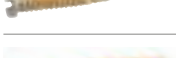





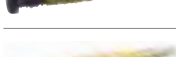




















In 1998 Hilco simplified eyewear repair with the Logic® nose pad.

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
- With Tight Bond™ screw securer



		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.20	11.60	2.00	<b>109 4234</b> 0888 00	25 pieces	-
			Steel	Gold	1.20	11.60	2.00	<b>109 4240</b> 0888 10	25 pieces	-
			Steel	Black	1.20	11.60	2.00	<b>109 4246</b> 0888 20	25 pieces	-
			Steel	Silver	1.30	11.60	2.00	<b>109 4235</b> 0888 01	25 pieces	-
			Steel	Gold	1.30	11.60	2.00	<b>109 4241</b> 0888 11	25 pieces	-
			Steel	Black	1.30	11.60	2.00	<b>109 4247</b> 0888 21	25 pieces	-
			Steel	Silver	1.40	11.60	2.00	<b>109 4236</b> 0888 02	25 pieces	-
			Steel	Gold	1.40	11.60	2.00	<b>109 4242</b> 0888 12	25 pieces	-
			Steel	Black	1.40	11.60	2.00	<b>109 4248</b> 0888 22	25 pieces	-
			Steel	Silver	1.50	11.60	2.00	<b>109 4237</b> 0888 03	25 pieces	-
			Steel	Gold	1.50	11.60	2.00	<b>109 4243</b> 0888 13	25 pieces	-
			Steel	Black	1.50	11.60	2.00	<b>109 4249</b> 0888 23	25 pieces	-
			Steel	Silver	1.60	11.60	2.00	<b>109 4238</b> 0888 04	25 pieces	-
			Steel	Gold	1.60	11.60	2.00	<b>109 4244</b> 0888 14	25 pieces	-
			Steel	Black	1.60	11.60	2.00	<b>109 4250</b> 0888 24	25 pieces	-
			Steel	Silver	1.80	11.60	2.00	<b>109 4239</b> 0888 05	25 pieces	-
			Steel	Gold	1.80	11.60	2.00	<b>109 4245</b> 0888 15	25 pieces	-
			Steel	Black	1.80	11.60	2.00	<b>109 4251</b> 0888 25	25 pieces	-

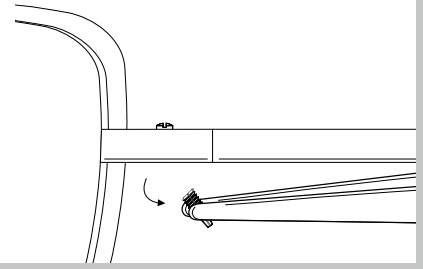
# Special Screws

## Screws with transparent Nylon Securer

Made of steel, available colours: silver and gold

Transparent nylon inlay

Self tapping thread

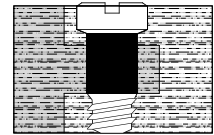


		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.30	11.50	1.80	<b>120 1383</b> 0861 01	50 pieces	-
			Steel	Gold	1.30	11.50	1.80	<b>120 1384</b> 0861 11	50 pieces	-
			Steel	Silver	1.40	11.50	1.80	<b>120 1385</b> 0862 01	50 pieces	-
			Steel	Gold	1.40	11.50	1.80	<b>120 1386</b> 0862 11	50 pieces	-
			Steel	Silver	1.50	11.50	1.80	<b>120 1387</b> 0863 01	50 pieces	-
			Steel	Gold	1.50	11.50	1.80	<b>120 1388</b> 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	<b>120 1180</b> 0811 00	50 pieces	-
			Steel	Silver	1.40	3.50	2.00	<b>120 1181</b> 0811 01	50 pieces	-
			Steel	Silver	1.40	4.00	2.00	<b>120 1182</b> 0811 02	50 pieces	-
			Steel	Silver	1.40	4.50	2.00	<b>120 1183</b> 0811 03	50 pieces	-
			Steel	Silver	1.60	3.50	2.50	<b>120 1184</b> 0811 04	50 pieces	-
			Steel	Silver	1.60	4.00	2.50	<b>120 1185</b> 0811 05	50 pieces	-
			Steel	Silver	1.60	4.60	2.50	<b>120 1186</b> 0811 06	50 pieces	-





# Special Screws

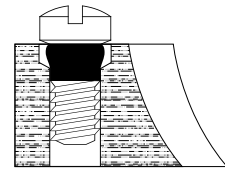
## Screws with black Screw Securer































The black securing ring wedges to give a firm grip



Phillips/ slotted combination for a free screwdriver selection

Material: steel



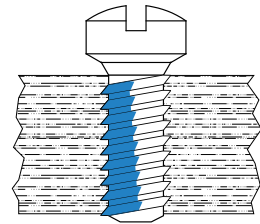
		Screw head	Material	Colour				Order No.		Matching nut
			Steel	Silver	1.40	2.80	1.80	<b>120 1347</b> 0851 01	100 pieces	-
			Steel	Silver	1.40	3.30	2.00	<b>120 1401</b> 0869 01	100 pieces	-
			Steel	Silver	1.40	3.40	1.80	<b>120 1348</b> 0851 02	100 pieces	-
			Steel	Silver	1.40	3.70	2.00	<b>120 1402</b> 0869 02	100 pieces	-
			Steel	Silver	1.40	3.90	2.00	<b>120 1400</b> 0869 00	100 pieces	-
			Steel	Silver	1.40	4.00	1.80	<b>120 1349</b> 0851 03	100 pieces	-
			Steel	Silver	1.40	4.20	2.00	<b>120 1403</b> 0869 03	100 pieces	-
			Steel	Silver	1.40	4.30	1.80	<b>120 1346</b> 0851 00	100 pieces	-










## Screws with blue Tuflock Securer

Available in silver



Reusable due to Tuflock coating on thread of screw



		Screw head	Material	Colour				Order No.		Matching nut
			German Silver	Silver	1.00	4.00	1.40	<b>120 1471</b> 0896 00TL	50 pieces	-
			Steel	Silver	1.40	6.00	1.80	<b>120 1381</b> 0860 58TL	50 pieces	-
			Steel	Silver	1.40	6.50	1.80	<b>120 1376</b> 0860 30TL	50 pieces	-
			Steel	Silver	1.50	5.20	1.80	<b>120 1325</b> 0842 00TL	50 pieces	-
			Steel	Silver	1.60	5.20	1.80	<b>120 1328</b> 0842 01TL	50 pieces	-

## Screw Assortment

**Contents:** 28 different screws and nuts (2,900 pieces)

**120 1465**

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

**120 1466**

0890 17



## Screw Assortment

In organiser box system No. 120 1816 (see catalogue page G 12).

**Contents:** 7 of the most used screws and nuts, altogether 700 pieces,  
1 empty box

**120 1464**  
0890 10



## Rimless Frames Assortment

**Contents:** 12 of the most used screws, nuts, washers and sleeves  
(1,300 pieces)

**120 1467**  
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 (950 pieces)

**120 1051**  
0745 50



Nuts									
		Style	Material	Colour			Order No.		Matching nut driver
			German Silver	Silver	1.20	2.50	<b>120 1276</b> 0822 01	100 pieces	<b>120 2342</b> 1746 00
			German Silver	Silver	1.20	2.50	<b>120 1277</b> 0822 01TL	100 pieces	<b>120 2342</b> 1746 00
			Brass	Gold	1.20	2.50	<b>120 1278</b> 0822 02	100 pieces	<b>120 2342</b> 1746 00
			Brass	Gold	1.20	2.50	<b>120 1279</b> 0822 02TL	100 pieces	<b>120 2342</b> 1746 00
			German Silver	Gun	1.20	2.50	<b>120 1280</b> 0822 03	100 pieces	<b>120 2342</b> 1746 00
			German Silver	Silver	1.30	2.50	<b>120 1281</b> 0823 01	100 pieces	<b>120 2342</b> 1746 00
			German Silver	Gun	1.30	2.50	<b>120 1282</b> 0823 03	100 pieces	<b>120 2342</b> 1746 00
			German Silver	Silver	1.40	2.50	<b>120 1283</b> 0824 01	100 pieces	<b>120 2342</b> 1746 00
			German Silver	Silver	1.40	2.50	<b>120 1284</b> 0824 01TL	100 pieces	<b>120 2342</b> 1746 00
			Brass	Gold	1.40	2.50	<b>120 1285</b> 0824 02	100 pieces	<b>120 2342</b> 1746 00
			Brass	Gold	1.40	2.50	<b>120 1286</b> 0824 02TL	100 pieces	<b>120 2342</b> 1746 00
			German Silver	Gun	1.40	2.50	<b>120 1287</b> 0824 03	100 pieces	<b>120 2342</b> 1746 00
			German Silver	Silver	1.50	2.50	<b>120 1294</b> 0830 01	100 pieces	<b>120 2342</b> 1746 00
			German Silver	Silver	1.60	2.60	<b>120 1300</b> 0833 01	100 pieces	<b>120 2350</b> 1767 00

Dome Nuts									
		Style	Material	Colour			Order No.		Matching nut driver
			German Silver	Silver	1.20	2.20	<b>120 1312</b> 0839 00	100 pieces	<b>120 2348</b> 1749 00
			Brass	Gold	1.20	2.20	<b>120 1313</b> 0839 10	100 pieces	<b>120 2348</b> 1749 00
			German Silver	Gun	1.20	2.20	<b>120 1314</b> 0839 20	100 pieces	<b>120 2348</b> 1749 00
			Steel	Silver	1.20	2.40	<b>120 1298</b> 0832 00	100 pieces	<b>120 2350</b> 1767 00
			Steel	Gold	1.20	2.40	<b>120 1299</b> 0832 10	100 pieces	<b>120 2350</b> 1767 00
			German Silver	Silver	1.40	2.20	<b>120 1315</b> 0840 00	100 pieces	<b>120 2348</b> 1749 00
			Brass	Gold	1.40	2.20	<b>120 1316</b> 0840 10	100 pieces	<b>120 2348</b> 1749 00








 Screw securer

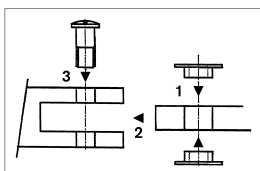


## Dome Nuts

		Style	Material	Colour			Order No.		Matching nut driver
			German Silver	Gun	1.40	2.20	<b>120 1317</b> 0840 20	100 pieces	<b>120 2348</b> 1749 00
			Steel	Silver	1.40	2.40	<b>120 1307</b> 0838 00	100 pieces	<b>120 2350</b> 1767 00
			Steel	Gold	1.40	2.40	<b>120 1311</b> 0838 10	100 pieces	<b>120 2350</b> 1767 00


























## Special Washers for Titanium Temples

		Schematic side view	Material	Colour			Order No.	
			Steel	Silver	1.20	2.80	<b>120 1027</b> 0745 07	100 pieces
			Steel	Silver	1.40	2.80	<b>120 1028</b> 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	<b>120 1030</b> 0745 10	100 pieces
		Brass for screws with conical heads	Gold	1.20	2.80	<b>120 1031</b> 0745 11	100 pieces
		German Silver	Silver	1.20	2.50	<b>109 8816</b> 0745 20	100 pieces
		German Silver	Gold	1.20	2.50	<b>120 1034</b> 0745 14	100 pieces
		German Silver	Gun	1.20	2.50	<b>120 1048</b> 0745 30	100 pieces
		Plastic	Transparent	1.30	2.60	<b>120 1024</b> 0745 00	150 pieces
		German Silver	Silver	1.30	2.50	<b>120 1041</b> 0745 21	100 pieces
		German Silver	Gold	1.30	2.50	<b>120 1035</b> 0745 15	100 pieces
		Plastic	Transparent	1.40	2.80	<b>120 1026</b> 0745 02	150 pieces
		German Silver	Silver	1.40	2.50	<b>109 8817</b> 0745 22	100 pieces

## Washers for Rimless Frames

		Material	Colour			Order No.	
		German Silver	Gold	1.40	2.50	<b>120 1036</b> 0745 16	100 pieces
		German Silver	Gun	1.40	2.80	<b>120 1049</b> 0745 32	100 pieces
		German Silver for screws with conical heads	Silver	1.40	2.80	<b>120 1029</b> 0745 09	100 pieces
		German Silver	Silver	1.50	2.50	<b>120 1043</b> 0745 23	100 pieces
		German Silver	Gold	1.50	2.50	<b>120 1037</b> 0745 17	100 pieces
		Plastic	Transparent	1.60	3.00	<b>120 1033</b> 0745 13	150 pieces
		German Silver for reach nuts No. 109 2219	Silver	1.65	2.70	<b>120 1044</b> 0745 24	100 pieces
		German Silver for reach nuts No. 109 2220	Gold	1.65	2.70	<b>120 1038</b> 0745 18	100 pieces
		German Silver for reach nuts No. 109 2221	Silver	1.85	2.90	<b>120 1045</b> 0745 25	100 pieces
		German Silver for reach nuts No. 109 2222	Gold	1.85	2.90	<b>120 1039</b> 0745 19	100 pieces
		Plastic	Transparent	2.00	3.50	<b>120 1050</b> 0745 33	150 pieces














You will find our washer assortment No. 120 1051 on page F 46.

## Reach Nuts

		Style	Material	Colour				Order No.		Matching nut driver
			German Silver	Silver	1.20	4.00	2.50	<b>109 2219</b> 0844 00	100 pieces	<b>120 2342</b> 1746 00
			Brass	Gold	1.20	4.00	2.50	<b>109 2220</b> 0844 10	100 pieces	<b>120 2342</b> 1746 00
			German Silver	Silver	1.40	4.00	2.50	<b>109 2221</b> 0845 00	100 pieces	<b>120 2342</b> 1746 00
			Brass	Gold	1.40	4.00	2.50	<b>109 2222</b> 0845 10	100 pieces	<b>120 2342</b> 1746 00

## Caps for Rimless Frame Screws

		Material	Colour				Order No.		
		Plastic	Transparent	1.20	2.50	3.50	<b>120 1107</b> 0771 22	100 pieces	
		Plastic	Transparent	1.40	2.50	3.50	<b>120 1108</b> 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

**frey & winkler**  
CREATIVE SILICONE PRECISION

#### Sleeves for Rimless Frames

		Material	Colour	Material quality			Order No.	
		Plastic	Transparent	Medium soft	0.80	1.30	<b>120 1112</b> 0771 27	50 pieces
		Plastic	Transparent	Medium soft	0.80	1.40	<b>120 1094</b> 0771 04	50 pieces
		Plastic	Transparent	Soft	0.80	1.40	<b>120 1095</b> 0771 05	50 pieces
		Plastic	Transparent	Medium hard	0.80	1.40	<b>120 1096</b> 0771 06	50 pieces
		Plastic	Transparent	Soft open version	0.80	1.40	<b>120 1100</b> 0771 10	50 pieces
		Plastic	Transparent	Medium hard open version	0.80	1.40	<b>120 1101</b> 0771 11	50 pieces
		Plastic	Transparent	Medium soft open version	0.80	1.40	<b>120 1103</b> 0771 12	50 pieces
		Plastic	Transparent	Medium soft	0.80	1.50	<b>120 1113</b> 0771 28	50 pieces
		Plastic	Transparent	Soft	1.00	1.80	<b>120 1097</b> 0771 07	50 pieces
		Plastic	Transparent	Medium hard	1.00	1.80	<b>120 1098</b> 0771 08	50 pieces
		Plastic	Transparent	Medium soft	1.00	1.80	<b>120 1099</b> 0771 09	50 pieces

Sleeves for Rimless Frames									
		Schematic side view	Material	Colour	Material quality			Order No.	
			Plastic	Transparent		1.20	2.80	<b>120 1104</b> 0771 13	100 pieces
			Plastic	Transparent		1.40	2.80	<b>120 1105</b> 0771 14	100 pieces
			Plastic	Transparent	Hard	1.00	1.80	<b>109 2671</b> 0771 21	50 pieces
			Plastic	Transparent	Hard	0.80	1.50	<b>120 1109</b> 0771 24	50 pieces
			Plastic	Transparent	Hard	0.80	1.40	<b>120 1110</b> 0771 25	50 pieces
			Plastic	Transparent	Hard	0.80	1.50	<b>109 2672</b> 0771 26	50 pieces
			Plastic	Transparent	Soft	0.80	1.60	<b>120 1115</b> 0771 30	50 pieces
			Plastic	Transparent	Hard	1.00	1.80	<b>120 1114</b> 0771 29	50 pieces

## Sleeves Assortment

**Contents:** 7 different sleeves for rimless frames (350 pieces)

**108 0775**  
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									
			2.5	0.75-0.75	5.0	1.8	0°	1.4	<b>120 0565</b> 0400 01	10 pieces
			2.5	0.75-0.75	5.0	1.8	0°	1.4	<b>120 0566</b> 0400 02	10 pieces
			2.5	1.0	5.0	1.8	0°	1.4	<b>120 0567</b> 0400 10	10 pieces
			3.0	0.9-0.9	5.0	1.8	0°	1.4	<b>120 0570</b> 0401 01	10 pieces
			3.0	0.9-0.9	5.0	1.8	0°	1.4	<b>120 0571</b> 0401 02	10 pieces
			3.0	1.2	5.0	1.8	0°	1.4	<b>120 0572</b> 0401 10	10 pieces
			3.0	0.9-0.9	5.0	1.6	0°	1.4	<b>120 0574</b> 0402 01	10 pieces
			3.0	0.9-0.9	5.0	1.6	0°	1.4	<b>120 0575</b> 0402 02	10 pieces
			3.5	1.0-1.0	3.95	1.6	0°	1.4	<b>120 0576</b> 0403 01	10 pieces
			3.5	1.0-1.0	3.95	1.6	0°	1.4	<b>120 0577</b> 0403 02	10 pieces
			3.5	1.05-1.05	5.0	1.8	0°	1.4	<b>120 0578</b> 0404 01	10 pieces
			3.5	1.05-1.05	5.0	1.8	0°	1.4	<b>120 0579</b> 0404 02	10 pieces
			3.5	1.4	5.0	1.8	0°	1.4	<b>120 0580</b> 0404 10	10 pieces

# Hinges

Spring Hinge Sets								
Middle part left	Middle part right	Temple part					Order No.	
			3.0	0.8-0.8	0°	1.2	<b>120 0611</b> 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	<b>120 0613</b> 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	<b>120 0614</b> 0443 00	5 pieces
	German Silver	Silver	1.0	1.4	<b>120 0615</b> 0443 01	5 pieces
	German Silver	Silver	1.2	1.4	<b>120 0616</b> 0443 02	5 pieces
	German Silver	Silver	1.4	1.4	<b>120 0617</b> 0443 03	5 pieces
























## Hinges Assortment

**Contents:** Solder hinges 120 0570-72 (10 pieces each)  
 rivet hinges 120 0585-87 (10 pieces each)  
 rivets 120 1504 (100 pieces)  
 (160 pieces)

**120 0568**  
0400 50



## Hinges

Rivet Hinges										
Middle part		Temple part							Order No.	
left	right	left	right							
				3.0	1.0	2.5	6°	1.4	<b>120 0581</b> 0405 01	10 pieces
				3.0	1.0	2.5	6°	1.4	<b>120 0582</b> 0405 02	10 pieces
				3.0	0.8-0.8	2.5	6°	1.4	<b>120 0583</b> 0405 11	10 pieces
				3.0	0.8-0.8	2.5	6°	1.4	<b>120 0584</b> 0405 12	10 pieces
				3.0	1.2	2.5	0°	1.4	<b>120 0585</b> 0406 00	10 pieces
				3.0	0.9-0.9	2.5	0°	1.4	<b>120 0586</b> 0406 11	10 pieces
				3.0	0.9-0.9	2.5	0°	1.4	<b>120 0587</b> 0406 12	10 pieces
				3.5	1.4	2.5	6°	1.4	<b>120 0588</b> 0407 01	10 pieces
				3.5	1.4	2.5	6°	1.4	<b>120 0589</b> 0407 02	10 pieces
				3.5	0.9-0.9	2.5	6°	1.4	<b>120 0590</b> 0407 11	10 pieces
				3.5	0.9-0.9	2.5	6°	1.4	<b>120 0591</b> 0407 12	10 pieces
				6.0	0.8-0.8	2.5	6°	1.4	<b>120 0592</b> 0408 01	10 pieces
				6.0	0.8-0.8	2.5	6°	1.4	<b>120 0593</b> 0408 02	10 pieces
				6.0	0.8-0.8	2.5	6°	1.4	<b>120 0594</b> 0408 03	10 pieces
				6.0	0.8-0.8	2.5	6°	1.4	<b>120 0595</b> 0408 04	10 pieces
				6.0	1.1-0.7-1.1	2.5	6°	1.4	<b>120 0596</b> 0408 11	10 pieces
				6.0	1.1-0.7-1.1	2.5	6°	1.4	<b>120 0597</b> 0408 12	10 pieces

# Hinges

Hidden Hinges								
Middle part straight	Middle part						Order No.	
	left	right						
			5.0	1.0	0°	1.4	<b>109 8939</b> 0409 00	10 pieces
			5.0	1.2	0°	1.4	<b>109 8940</b> 0412 00	10 pieces
			5.0	1.4	0°	1.4	<b>109 8941</b> 0414 00	10 pieces
			4.4	1.3	0°	1.4	<b>120 0601</b> 0416 00	10 pieces
			3.5	1.4	0°	1.4	<b>120 0602</b> 0417 00	10 pieces
			3.5	1.6	0°	1.4	<b>120 0603</b> 0418 00	10 pieces
			7.0	1.6	0°	1.4	<b>120 0604</b> 0422 00	10 pieces
			3.3	0.9-0.9	0°	1.4	<b>120 0607</b> 0424 01	10 pieces
			3.3	0.9-0.9	0°	1.4	<b>120 0608</b> 0424 02	10 pieces
			4.5	1.0-1.0	0°	1.4	<b>120 0609</b> 0425 01	10 pieces
			4.5	1.0-1.0	0°	1.4	<b>120 0610</b> 0425 02	10 pieces

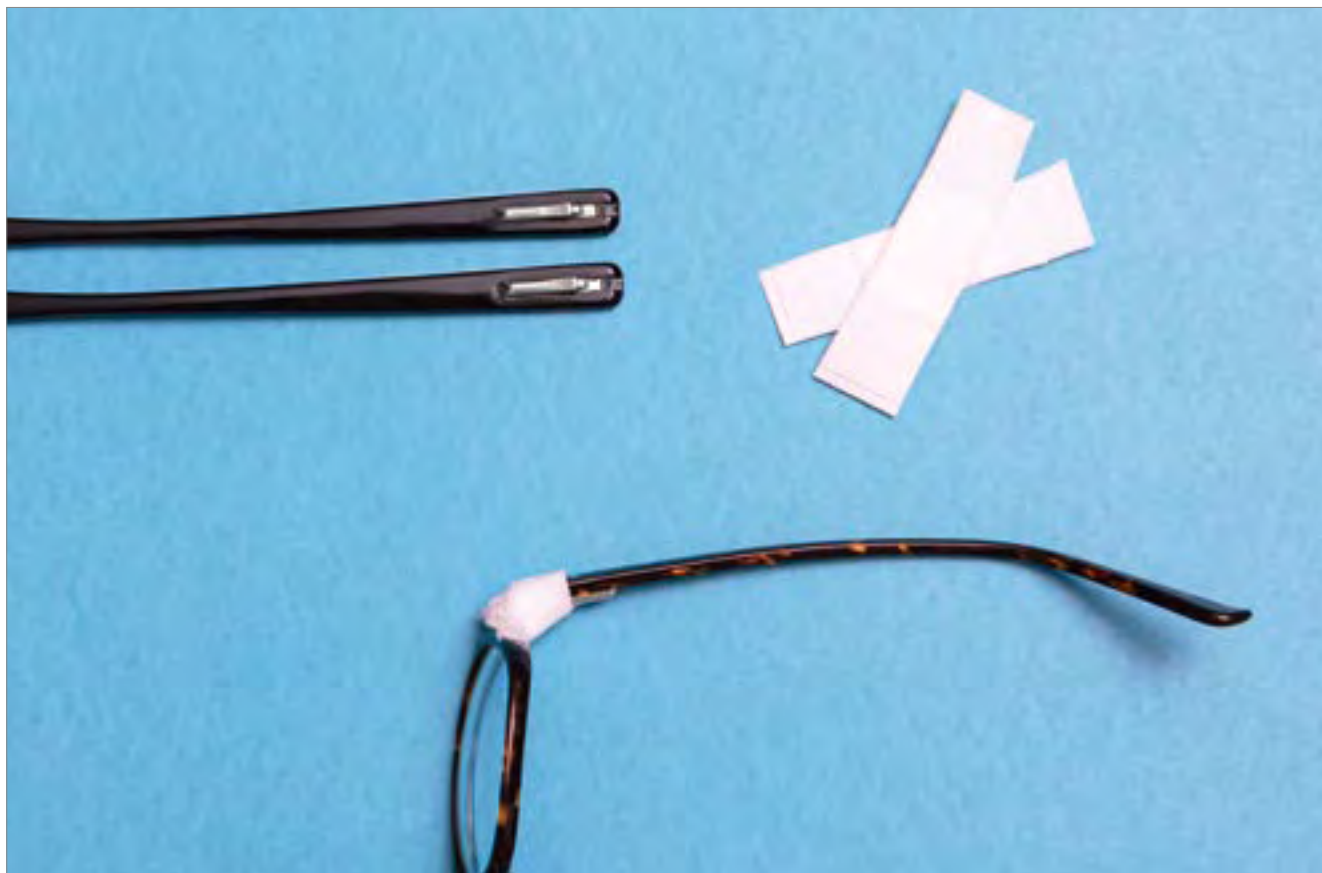
Rim Joints								
		Material	Colour	Application			Order No.	
		German Silver	Silver	Flat, for eyewire 1.80 to 2.50 mm. Has to be cut after soldering, with screws.	1.40	2.60 x 2.80 x 3.40	<b>120 1475</b> 0898 01	10 pieces
		German Silver	Silver	Flat, for eyewire 1.80 to 2.30 mm. Has to be cut after soldering, with screws.	1.40	2.40 x 4.50	<b>120 1476</b> 0898 02	10 pieces

Rivets								
		Material	Colour				Order No.	
		German Silver	Silver	25.00	1.70	0.70: 1.70	<b>120 1505</b> 0906 00	200 pieces
		German Silver	Silver	10.00	1.80	1.20	<b>120 1504</b> 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

**frey & winkler**  
CREATIVE SILICONE 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

	<b>Standard Temple End</b>	F 58 F 58–F59 F 60 F 60 F 60 F 61
	<b>Silicone Temple End</b>	F 61 F 61 F 61
	<b>Temple End with Square Opening</b>	F 62 F 62 F 62 F 62
	<b>Temple End for ic! berlin Frames</b>	F 63 F 63
	<b>Sports Temple Ends</b>	F 64–F 67 F 68 F 68 F 69–F 70
	<b>Windsor Rim</b>	F 71 F 71
	<b>Heat Shrink Tubes</b>	F 72–F 73 F 73
	<b>Long Temple Ends</b>	F 74 F 74
	<b>Temples</b>	F 75 F 75 F 76 F 76–F 77
	<b>Spare Parts for Rimless Frames</b>	F 78–F 79 F 78–F 79





## Standard Temple End

Length: 64 mm

### PP Temple End – Small Opening

Sealed end for high quality titanium frames.

**frey & winkler**  
CREATIVE SILICONE PRECISION





	Transparent	f&w	∅ 1.0 mm	<b>120 0959</b> 0726 27	10 pieces
	Anthracite transparent	f&w	∅ 1.0 mm	<b>120 0960</b> 0726 28	10 pieces

Length: 65 mm

### Temple End – Classic Shape

	Black		∅ 1.45 mm	<b>120 0912</b> 0712 41	10 pieces
			∅ 1.6 mm	<b>120 0913</b> 0712 61	10 pieces






### Acetate Temple End – Thin Type

	Black		∅ 1.25 mm	<b>120 0896</b> 0711 21	10 pieces
			∅ 1.45 mm	<b>120 0900</b> 0711 41	10 pieces
			∅ 1.6 mm	<b>120 0904</b> 0711 61	10 pieces
			∅ 1.7 mm	<b>120 0908</b> 0711 71	10 pieces
			∅ 1.9 mm	<b>120 0910</b> 0711 91	10 pieces
	Brown		∅ 1.25 mm	<b>120 0897</b> 0711 22	10 pieces
			∅ 1.45 mm	<b>120 0901</b> 0711 42	10 pieces
			∅ 1.6 mm	<b>120 0905</b> 0711 62	10 pieces
			∅ 1.7 mm	<b>120 0909</b> 0711 72	10 pieces
			∅ 1.9 mm	<b>120 0911</b> 0711 92	10 pieces
	Havana		∅ 1.25 mm	<b>120 0898</b> 0711 23	10 pieces
			∅ 1.45 mm	<b>120 0902</b> 0711 43	10 pieces
			∅ 1.6 mm	<b>120 0906</b> 0711 63	10 pieces
	Transparent		∅ 1.25 mm	<b>120 0899</b> 0711 24	10 pieces
			∅ 1.45 mm	<b>120 0903</b> 0711 44	10 pieces
			∅ 1.6 mm	<b>120 0907</b> 0711 64	10 pieces




# Standard Temple End

Length: 65 mm

## Acetate Temple End – Symmetrical Shape

 Black	∅ 1.25 mm	<b>120 0919</b> 0714 21	10 pieces
	∅ 1.45 mm	<b>120 0920</b> 0714 41	10 pieces
	∅ 1.6 mm	<b>120 0925</b> 0714 61	10 pieces
	∅ 1.7 mm	<b>120 0930</b> 0714 71	10 pieces
 Brown	∅ 1.45 mm	<b>120 0921</b> 0714 42	10 pieces
	∅ 1.6 mm	<b>120 0926</b> 0714 62	10 pieces
	∅ 1.7 mm	<b>120 0931</b> 0714 72	10 pieces
 Havana	∅ 1.45 mm	<b>120 0922</b> 0714 43	10 pieces
	∅ 1.7 mm	<b>120 0932</b> 0714 73	10 pieces
 Transparent	∅ 1.45 mm	<b>120 0923</b> 0714 44	10 pieces
	∅ 1.6 mm	<b>120 0928</b> 0714 64	10 pieces
	∅ 1.7 mm	<b>120 0933</b> 0714 74	10 pieces
 Grey	∅ 1.45 mm	<b>120 0924</b> 0714 47	10 pieces
	∅ 1.6 mm	<b>120 0929</b> 0714 67	10 pieces

## Temple End – Symmetrical Shape




 Black	∅ 1.2 mm	<b>120 0885</b> 0709 21	10 pieces
	∅ 1.45 mm	<b>120 0888</b> 0709 41	10 pieces
	∅ 1.6 mm	<b>120 0891</b> 0709 61	10 pieces
 Brown	∅ 1.2 mm	<b>120 0886</b> 0709 22	10 pieces
	∅ 1.45 mm	<b>120 0889</b> 0709 42	10 pieces
	∅ 1.6 mm	<b>120 0892</b> 0709 62	10 pieces
 Havana	∅ 1.2 mm	<b>120 0887</b> 0709 23	10 pieces
	∅ 1.45 mm	<b>120 0890</b> 0709 43	10 pieces
	∅ 1.6 mm	<b>120 0893</b> 0709 63	10 pieces



## Standard Temple End




Length: 67 mm

### Acetate Temple End – Small Opening

	Black	∅ 1.0 mm	<b>120 0914</b> 0713 01	10 pieces
	Brown	∅ 1.0 mm	<b>120 0915</b> 0713 02	10 pieces
	Transparent	∅ 1.0 mm	<b>120 0916</b> 0713 04	10 pieces

Length: 69 mm

### Acetate Temple End – Small Opening




	Black	∅ 1.1 mm	<b>130 0702</b> 0713 10	10 pieces
	Brown	∅ 1.1 mm	<b>130 0703</b> 0713 11	10 pieces
	Transparent	∅ 1.1 mm	<b>130 0704</b> 0713 12	10 pieces

Length: 70 mm




### Temple End Hard

	Transparent	∅ 1.1 mm	<b>120 0961</b> 0727 27	10 pieces
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### Temple End – Classic Shape

	Transparent	∅ 1.5 mm	<b>120 1159</b> 0794 08	10 pieces
	Black	∅ 1.5 mm	<b>120 1160</b> 0794 10	10 pieces
	Dark brown	∅ 1.5 mm	<b>120 1161</b> 0794 16	10 pieces

### Temple End – Small Opening

	Black	∅ 0.9 mm	<b>120 1082</b> 0754 01	10 pieces
	Brown	∅ 0.9 mm	<b>120 1083</b> 0754 16	10 pieces
	Transparent	∅ 0.9 mm	<b>120 1084</b> 0754 27	10 pieces

## Standard Temple End

Length: 75 mm

### Temple End – Classic Shape to extend Temples

To extend frame temples by at least 10 mm.




	Black	∅ 1.4 mm	<b>120 1166</b> 0797 10	10 pieces
	Dark brown	∅ 1.4 mm	<b>120 1167</b> 0797 16	10 pieces
	Transparent	∅ 1.4 mm	<b>120 1168</b> 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	∅ 0.9 to 1.5 mm flexible	<b>120 1085</b> 0756 01	10 pieces
	Brown	∅ 0.9 to 1.5 mm flexible	<b>120 1086</b> 0756 16	10 pieces
	Transparent	∅ 0.9 to 1.5 mm flexible	<b>120 1087</b> 0756 27	10 pieces

Length: 67 mm

### Silicone Temple End – Small Opening

	Black	∅ 0.9 to 1.1 mm flexible	<b>120 0937</b> 0716 01	10 pieces
	Transparent	∅ 0.9 to 1.1 mm flexible	<b>120 0939</b> 0716 04	10 pieces

Length: 70 mm

### Silicone Temple End

	Black	 ∅ 1.0 mm	<b>120 1164</b> 0795 11	10 pieces
		 ∅ 1.4 mm	<b>120 1162</b> 0795 01	10 pieces
	Dark brown	 ∅ 1.0 mm	<b>120 1165</b> 0795 17	10 pieces
		 ∅ 1.4 mm	<b>120 1163</b> 0795 07	10 pieces



## Temple End with Square Opening







Length: 61 mm

### Silicone Temple End

	 1.5 x 1.0 mm	<b>120 0977</b> 0732 01	10 pieces
Black			
	 1.5 x 1.0 mm	<b>120 0978</b> 0732 02	10 pieces
Brown			
	 1.5 x 1.0 mm	<b>120 0979</b> 0732 04	10 pieces
Transparent			

Length: 63 mm

### Silicone Temple End – For Straight Temples

	  2.6 x 1.5 mm	<b>120 0935</b> 0715 01	10 pieces
Black			
	  2.6 x 1.5 mm	<b>120 0936</b> 0715 02	10 pieces
Brown			





### Temple End – Flat, Square Opening

	 4.0 x 1.3 mm	<b>120 1157</b> 0789 00	10 pieces
Black			

Length: 70 mm

### Temple End – Flat Opening

For thin metal temples.

	 2.5 x 1.3 mm	<b>120 1088</b> 0757 00	10 pieces
Black			
	 2.5 x 1.3 mm	<b>120 1089</b> 0757 01	10 pieces
Brown			



**Length: 85 mm**

**ic! berlin Temple Tip**

Material: Thermoplastic elastomer

	<b>Black</b>	 2.8 x 1.0 mm	<b>120 1134</b> 0782 02	<b>2 pairs</b>
	<b>Grey</b>	 2.8 x 1.0 mm	<b>120 1135</b> 0782 03	<b>2 pairs</b>

**ic! berlin Tube Set Classic**

- Length nose tubes: 19 mm
- Length temple tubes: 88 mm
- Temple diameter: 6 mm
- Color: Transparent
- Material: Silicone

**120 1125**  
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

**120 1126**  
0780 13  5 pieces



**TIPS & TRICKS**

**EASY MOUNTING OF SPORT TEMPLE ENDS**

*Nothing Slips!*

- Sport Temple Ends**  
used for example: No. 120 0985
- Universal Pen**  
No.120 3040
- Double Joint Front Cutter**  
No. 120 2096
- Precision File**  
No. 120 2395
- Frame Heater**  
No. 120 3171



**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. 120 0985–93, 120 0994–99, 120 0940–44, 120 0946–49, 120 0964 and 121 0488–92, 121 0494–500 **with heating procedure**

**4 HEATING**



**5 PUSHING**



**6 COOLING**



Applying the sport temple ends No. 120 0974, -76 **with cold procedure**

**4 COLD PUSHING**



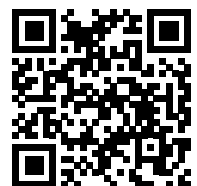
**5 DONE**



**OPTIONAL: PRESSING**



YouTube



- 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.



## Sports Temple Ends made of Silicone

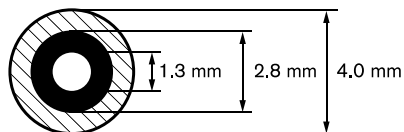
For supplementary application on metal temples and inserts of plastic temples.

**Assembling range: approx. 1.3 to 1.4 mm**

Ø inner: 1.3 mm

Ø outer: 4.0 mm

Thickness of silicone coating: 0.6 mm



Plastic



Silicone

 1 pair

**Children: Length 80 mm**

**Adults: Length 95 mm**

Order No.	Colour	Order No.	Colour
<b>121 0488</b> 0749 01	<b>Black</b>	<b>120 0974</b> 0731 01	<b>Black</b>
<b>121 0489</b> 0749 02	<b>Grey</b>	<b>120 0976</b> 0731 16	<b>Dark brown</b>
<b>121 0490</b> 0749 03	<b>Petrol</b>		
<b>121 0491</b> 0749 04	<b>Purple</b>		
<b>121 0492</b> 0749 05	<b>Red</b>		
<b>121 0494</b> 0749 06	<b>Pink</b>		
<b>121 0495</b> 0749 07	<b>Green</b>		
<b>121 0496</b> 0749 10	<b>Yellow</b>		
<b>121 0497</b> 0749 11	<b>Orange</b>		
<b>121 0498</b> 0749 12	<b>Light blue</b>		
<b>121 0499</b> 0749 16	<b>Dark brown</b>		
<b>121 0500</b> 0749 21	<b>Blue</b>		





### 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**

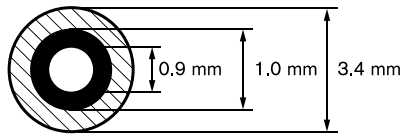
Ø inner: 0.9 mm  
 Ø outer: 3.4 mm



"Easy Mounting of Sport Temple Ends"  
 (see page F 64)

Thickness of silicone coating: 1.2 mm,  
 optimal protection, optimal padding

1 pair



Plastic      Silicone

Children: Length 75 mm		Adults: Length 90 mm	
Order No.	Colour	Order No.	Colour
<b>120 0940</b> 0717 01	<b>Black</b>	<b>120 0946</b> 0718 01	<b>Black</b>
<b>120 0941</b> 0717 03	<b>Blue</b>	<b>120 0947</b> 0718 03	<b>Blue</b>
<b>120 0942</b> 0717 05	<b>Red</b>	<b>120 0948</b> 0718 16	<b>Brown</b>
<b>120 0943</b> 0717 07	<b>Green</b>	<b>120 0949</b> 0718 19	<b>Bordeaux</b>
<b>120 0944</b> 0717 19	<b>Bordeaux</b>		



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**

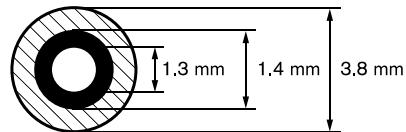
Ø inner: 1.3 mm

Ø outer: 3.8 mm



"Easy Mounting of Sport Temple Ends"  
(see page F 64)

Thickness of silicone coating: 1.2 mm,  
optimal protection, optimal padding



■ Plastic

▨ Silicone

1 pair

**Children: Length 75 mm**

**Adults: Length 90 mm**

Order No.	Colour	Order No.	Colour
<b>120 0985</b> 0735 01	<b>Black</b>	<b>120 0994</b> 0736 01	<b>Black</b>
<b>120 0987</b> 0735 03	<b>Navy</b>	<b>120 0996</b> 0736 03	<b>Navy</b>
<b>120 0988</b> 0735 04	<b>Lilac</b>	<b>120 0997</b> 0736 05	<b>Red</b>
<b>120 0989</b> 0735 05	<b>Red</b>	<b>120 0998</b> 0736 16	<b>Brown</b>
<b>120 0990</b> 0735 07	<b>Green</b>	<b>120 0999</b> 0736 19	<b>Bordeaux</b>
<b>120 0991</b> 0735 12	<b>Light blue</b>		
<b>120 0992</b> 0735 16	<b>Brown</b>		
<b>120 0993</b> 0735 19	<b>Bordeaux</b>		



## 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

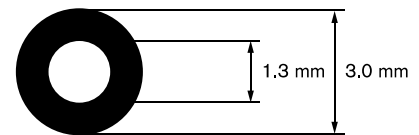
**120 0964**  
0728 01

Black

 1 pair



without silicone coating



 Plastic



"Easy Mounting of Sport Temple Ends"  
(see page F 64)



Please note our PlastiDip – the multipurpose rubber coating on page E 20.



Please also note our heat shrink tubes on page F 73.

## MEGALOCK Temple End

Silicone, can be used with plastic and metal temples, firm hold.

Ø inner: 5.9 x 2.7 mm

**120 7463-64**  10 pairs

**120 7463**

8903 01

Black

**120 7464**

8903 02

Transparent

**120 7465-66**  50 pairs

**120 7465**

8903 51

Black

**120 7466**

8903 52


Transparent



## Non-slip Temple End

Similar as No. 120 7463–66, but in large pack.

Ø inner: 5.9 x 2.7 mm

**120 0969–70**  20 pieces

**120 0969**  
0729 10 Transparent

**120 0970**  
0729 11 Black

**120 0965–66**  100 pieces

**120 0965**  
0729 00 Transparent

**120 0966**  
0729 01 Black



Ø inner: 2.8 x 1.8 mm

**120 0971–72**  20 pieces

**120 0971\***  
0729 12\* Transparent

**120 0972\***  
0729 13\* Black

**120 0967–68**  100 pieces

**120 0967\***  
0729 02\* Transparent

**120 0968\***  
0729 03\* Black




\* Extra small hole  
for thin temples

## Non-slip Temple Ends, Annular

Material: Silicone

Ø Total: 14.0 mm

Ø inner: 7.0 x 1.0 mm

**120 0954–55**  20 pieces

**120 0954**  
0722 10 Transparent

**120 0955**  
0722 11 Black



## Non-slip Temple Ends, Round with 2 Slot Sizes

Material: Silicone

Ø Total: 14.0 mm

Ø inner: 5.0 x 1.0 mm and 2.0 x 1.0 mm

**120 0956–57**  20 pieces

**120 0956**  
0723 10 Transparent

**120 0957**  
0723 11 Black





## Non-slip temple ends, Ear Grip

Material: Silicone

- Suitable for almost all temple thicknesses from a diameter of 3 mm



Made in Germany

130 3261-64 3 pairs

- 130 3261 Black
- 130 3262 Transparent
- 130 3263 Blue
- 130 3264 Pink



## 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

120 6744-74 5 pairs

Order No.	Colour	Order No.	Colour
120 6744 85000 00	Black	120 6760 85000 17	Light grey blue
120 6745 85000 01	Dark blue	120 6761 85000 18	Light grey
120 6746 85000 02	Blue	120 6762 85000 19	Light brown
120 6747 85000 03	Middle blue	120 6763 85000 20	Light green
120 6748 85000 04	Light blue	120 6764 85000 21	Light grey green
120 6749 85000 05	Light turquoise	120 6765 85000 22	Light sage
120 6750 85000 06	Dark green	120 6766 85000 23	Light blackberry
120 6751 85000 07	Apple green	120 6767 85000 24	Mauve
120 6752 85000 08	Blackberry	120 6768 85000 25	Peach
120 6753 85000 09	Red	120 6769 85000 26	Orange
120 6754 85000 10	Lilac	120 6770 85000 27	White
120 6755 85000 11	Pink	120 6771 85000 28	Glacial grey
120 6756 85000 12	Dark aquamarine	120 6772 85000 29	Light taupe
120 6757 85000 14	Olive green	120 6773 85000 30	Nude
120 6758 85000 15	Yellow green	120 6774 85000 31	Blush
120 6759 85000 16	Denim light blue		




## 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

**120 1119-21**  2 pieces

**120 1119**  
0776 00

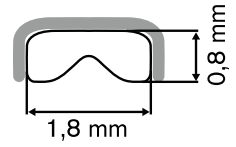
Chestnut

**120 1120**  
0776 01


Havana

**120 1121**  
0776 02

Havana dark brown



Ø inner: 2.0 x 1.0 mm

**120 1122-24**  2 pieces

**120 1122**  
0777 00

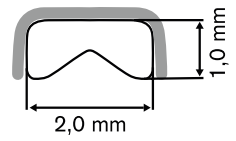
Chestnut

**120 1123**  
0777 01

Havana

**120 1124**  
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.

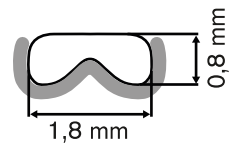
Material: Acetate

Ø outer: 1.8 x 0.8 mm

Colour: Havana

**120 1079**  
0751 01

 2 pieces



Our matching Windsor rim plier 120 2098 on page B 29 simplifies the adjustment to bridge and end piece.




**TIPS & TRICKS**
**HEAT SHRINK TUBE**
*Discreet Protection for Temples and Others*
**Heat Shrink Tube Assortment**

No. 120 1154

**Small Scissors**

No. 120 2136

**OPTOSONIC Cleaning Device**

No. 120 3810

**Frame Heater OPTIMONSUN**

No. 120 3144



approx. 3 minutes

*This is how it works*
**1 CLEANING**

**2 BENDING**

**3 REMOVING**

**4 SELECTING**


**5 SHORTEN**

**6 SHRINKAGE**


 YouTube


## Heat Shrink Tube

For a more comfortable fit, hypo-allergenic, high transparency.  
Material: PE

**120 1150-53**  3 x 1 m

Order No.	Ø inner	Ø after shrinking
<b>120 1150</b> 0786 03	<b>1.5 mm</b>	<b>approx. 0.75 mm</b>
<b>120 1151</b> 0786 05	<b>3.0 mm</b>	<b>approx. 1.50 mm</b>
<b>120 1152</b> 0786 08	<b>5.0 mm</b>	<b>approx. 2.50 mm</b>
<b>120 1153</b> 0786 10	<b>7.0 mm</b>	<b>approx. 3.50 mm</b>



## 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

**120 1154**  
0786 50

## Heat Shrink Tube

Shrinking temperature: 120 °C

Ø inner: 3.2 mm      Ø after shrinking: 1.5 to 1.6 mm


 3 x 1 m

<b>120 1138</b> 0784 51	Transparent	<b>120 1142</b> 0784 55	Black
<b>120 1139</b> 0784 52	Red	<b>120 1143</b> 0784 56	Grey
<b>120 1140</b> 0784 53	Blue	<b>120 1145</b> 0784 59	Brown



## Heat Shrink Tube Assortment

**Contents:** Each 1x No. 120 1139 and 120 1140 plus each 2x  
No. 120 1138; 120 1142; 120 1143 and 120 1145

**121 1697**  10 pieces of 1 m  
0784 34

## Heat Shrink Tube

Shrinking temperature: 160 to 170 °C

Ø inner: 1.6 mm      Ø after shrinking: 0.8 mm


**120 1147-48**  3 x 1 m

<b>120 1147</b> 0785 51	Transparent	<b>120 1148</b> 0785 55	Black
----------------------------	-------------	----------------------------	-------

## 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


**130 1167**  10 pairs  
0734 01



## Heat Shrink Tube – 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


**120 1155**  3 x 1 m  
0787 08






## Long Temple Ends

Length: 135 mm

### Acetate Temple End – Thin Type

Black		∅ 1.0 mm	<b>120 0877</b> 0707 01	10 pieces
		∅ 1.2 mm	<b>120 0878</b> 0707 21	10 pieces


### Acetate Temple End – Symmetrical Shape

Black		∅ 1.2 mm	<b>120 0879</b> 0708 21	10 pieces
		∅ 1.45 mm	<b>120 0882</b> 0708 41	10 pieces
Brown		∅ 1.2 mm	<b>120 0880</b> 0708 22	10 pieces
		∅ 1.45 mm	<b>120 0883</b> 0708 42	10 pieces
Havana		∅ 1.2 mm	<b>120 0881</b> 0708 23	10 pieces
		∅ 1.45 mm	<b>120 0884</b> 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.

**120 1158**  
0790 01

 100 pieces



**Temples with Flex Hinges – Nickel Free – Length 140 mm**

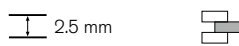
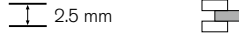
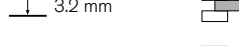
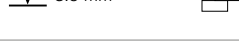
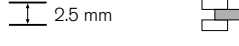
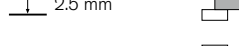


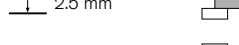

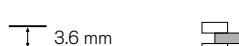
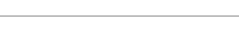
<b>Gold</b>		3.3 mm	0.8 mm	<b>120 1529</b> 1039 00	1 pair
		3.3 mm	1.0 mm	<b>120 1533</b> 1040 00	1 pair
		3.5 mm	1.2 mm	<b>120 1537</b> 1041 00	1 pair
		3.5 mm	1.4 mm	<b>120 1541</b> 1042 00	1 pair
<b>Silver</b>		3.3 mm	0.8 mm	<b>120 1530</b> 1039 01	1 pair
		3.3 mm	1.0 mm	<b>120 1534</b> 1040 01	1 pair
		3.5 mm	1.2 mm	<b>120 1538</b> 1041 01	1 pair
		3.5 mm	1.4 mm	<b>120 1542</b> 1042 01	1 pair
<b>Black</b>		3.3 mm	0.8 mm	<b>120 1531</b> 1039 02	1 pair
		3.3 mm	1.0 mm	<b>120 1535</b> 1040 02	1 pair
		3.5 mm	1.2 mm	<b>120 1539</b> 1041 02	1 pair
		3.5 mm	1.4 mm	<b>120 1543</b> 1042 02	1 pair
<b>Gun</b>		3.3 mm	0.8 mm	<b>120 1532</b> 1039 03	1 pair
		3.3 mm	1.0 mm	<b>120 1536</b> 1040 03	1 pair
		3.5 mm	1.2 mm	<b>120 1540</b> 1041 03	1 pair
		3.5 mm	1.4 mm	<b>120 1544</b> 1042 03	1 pair

**Temples with RAL Joint (American Joint) – Length 145 mm**

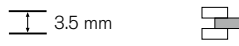
<b>Silver</b>		∅ 1.3 mm	0.95 mm	<b>120 1576</b> 1054 11	1 pair
<b>Gold</b>				<b>120 1577</b> 1054 12	1 pair
<b>Black</b>				<b>120 1578</b> 1054 13	1 pair



### Standard Temples – Nickel Free – Length 140 mm

Gold		<b>120 1525</b> 1038 00	1 pair
		<b>120 1545</b> 1043 00	1 pair
		<b>120 1549</b> 1045 00	1 pair
		<b>120 1553</b> 1046 00	1 pair
Silver		<b>120 1526</b> 1038 01	1 pair
		<b>120 1546</b> 1043 01	1 pair
		<b>120 1550</b> 1045 01	1 pair
		<b>120 1554</b> 1046 01	1 pair
Black		<b>120 1527</b> 1038 02	1 pair
		<b>120 1547</b> 1043 02	1 pair
		<b>120 1551</b> 1045 02	1 pair
		<b>120 1555</b> 1046 02	1 pair

### Acetate Temples – Length 140 mm

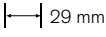

Black		<b>120 1557</b> 1047 00	1 pair
		<b>120 1558</b> 1047 02	1 pair
Black		<b>120 1560</b> 1048 00	1 pair
		<b>120 1561</b> 1048 02	1 pair
Black		<b>120 1562</b> 1049 00	1 pair
		<b>120 1563</b> 1049 02	1 pair

Acetate Temples – Length 140 mm

Black	6.3 mm	1.2 mm	<b>120 1564</b> 1050 00		1 pair
Transparent			<b>120 1565</b> 1050 01		1 pair
Dark havana			<b>120 1566</b> 1050 02		1 pair
Light havana			<b>120 1567</b> 1050 03		1 pair
Black	9.0 mm	1.2 mm	<b>120 1568</b> 1051 00		1 pair
Dark havana			<b>120 1570</b> 1051 02		1 pair
Black	10.0 mm	1.4 mm	<b>120 1572</b> 1052 00		1 pair
Dark havana			<b>120 1574</b> 1052 02		1 pair
Light havana			<b>120 1575</b> 1052 03		1 pair

### Bridge for Rimless Frames with Sleeves Mounting

- Material: Stainless steel
- For sleeves with an inner diameter of 0.8 mm

120 1579-84  29 mm  approx. 17 mm



**120 1579** 1055 00  
Gold

**120 1580** 1055 01  
Silver

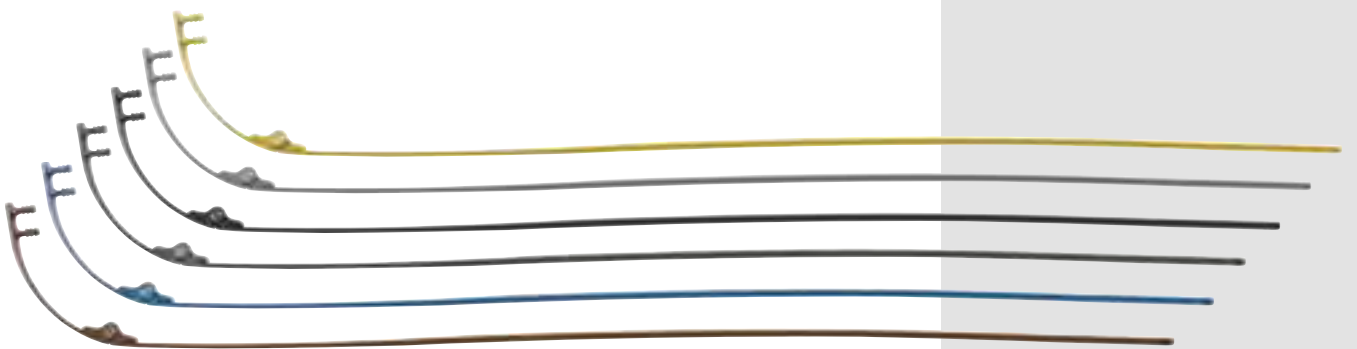
**120 1581** 1055 02  
Black

**120 1582** 1055 03  
Gun

**120 1583** 1055 04  
Blue

**120 1584** 1055 05  
Brown

### Spare Temple and Front Hinge for Rimless Frames with Sleeves Mounting – Length 150 mm



Gold

Silver

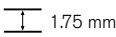
Black


Gun

Blue

Brown

Material: Stainless steel

 1.75 mm  0.7 mm

 1.1 mm

**120 1585** 1056 00 1 pair

**120 1586** 1056 01 1 pair

**120 1587** 1056 02 1 pair

**120 1588** 1056 03 1 pair

**120 1589** 1056 04 1 pair

**120 1590** 1056 05 1 pair

### 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. 120 0961), 2 nose pads (No. 120 0450) and 6 sleeves (No. 120 1095)

109 6604-07  
120 1602-03

**109 6604** 1058 00 Gold

**109 6605** 1058 01 Silver

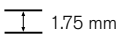

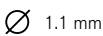
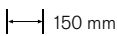
**109 6606** 1058 02 Black

**109 6607** 1058 03 Gun

**120 1602** 1058 04 Blue

**120 1603** 1058 05 Brown

Temple with hinge

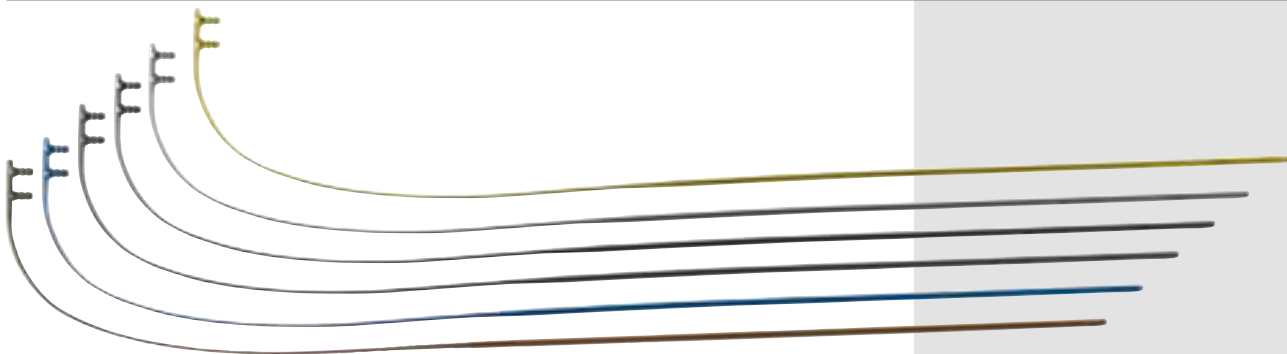
 1.75 mm  0.7 mm  1.1 mm  150 mm

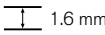

Bridge

 29 mm  approx. 17 mm



## Hingeless Temple for Rimless Frames with Sleeves Mounting – Length 150 mm



<b>Gold</b>	Material: Stainless steel	<b>120 1591</b> 1057 00	<b>1 pair</b>
<b>Silver</b>	 1.6 mm  1.0 mm	<b>120 1592</b> 1057 01	<b>1 pair</b>
<b>Black</b>		<b>120 1593</b> 1057 02	<b>1 pair</b>
<b>Gun</b>		<b>120 1594</b> 1057 03	<b>1 pair</b>
<b>Blue</b>		<b>120 1595</b> 1057 04	<b>1 pair</b>
<b>Brown</b>		<b>120 1596</b> 1057 05	<b>1 pair</b>

## 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. 120 0914), 2 nose pads (No. 120 0450) and 6 sleeves (No. 120 1095)

### 120 1604–09

<b>120 1604</b> 1059 00	<b>Gold</b>
<b>120 1605</b> 1059 01	<b>Silver</b>
<b>120 1606</b> 1059 02	<b>Black</b>
<b>120 1607</b> 1059 03	<b>Gun</b>
<b>120 1608</b> 1059 04	<b>Blue</b>
<b>120 1609</b> 1059 05	<b>Brown</b>



Hingeless temple

 1.6 mm       1.0 mm       150 mm

Bridge

 29 mm       approx. 17 mm

### TENAX Strips

- As interlining to be stuck into the frame groove
- Length: 50 mm, width: 3 mm

**120 0981**  
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

**120 0980**  
0733 00

⊥ 0.1 mm    📦 16 m



### Lens Washer (Liner) – Acetate

- Colour: Transparent

**120 1005**  
0743 10

⊥ 1.2 mm    📦 approx. 3 m



### Lens Washer – CYREX

- Handmade frames insert with V-bevel for optimum use
- Colour: Transparent



**120 1006**  
0743 30

⊥ 1.4 mm

📦 3.5 m

**120 1009**  
0743 35

⊥ 1.4 mm

📦 12 x 3.5 m



You will find our glass adhesive (hypo-tube cement) No. 120 3931 on page E 13.

### Lens Washer (Liner) – PVC

- Colour: Transparent



**120 1077**  
0750 00

⊥ 1.6 mm

📦 6 m

**120 1078**  
0750 10

⊥ 1.6 mm

📦 10 x 6 m

**120 1080**  
0752 00

⊥ 1.2 mm

📦 6 m

**120 1081**  
0752 10

⊥ 1.2 mm

📦 10 x 6 m

### Lens Ring

High tensile strength (> 300 %) and resistant to brittleness.

- Material: Silicone
- Colour: Transparent

**120 1739**  
1371 00

∅ 26 mm

⊥ 0.85 mm

📦 10 pieces

**120 1740**  
1371 10

∅ 27 mm

⊥ 0.5 mm

📦 10 pieces

**f&w**



## Fitting Strip

**120 1727**  
1368 00

5.0 mm

10 m



## Nylon Thread

Ø 0.5 mm

20 cm

**120 1736**  
1370 00

Opaque

100 pieces



## Nylon Thread – Transparent

**120 1738**  
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

**120 1735**  
1369 55

## Nylon Thread

• Colour: Transparent

### 120 1732–34

**120 1732** Ø 0.40 mm 20 m  
1369 20

**120 1733** Ø 0.50 mm 20 m  
1369 21

**120 1734** Ø 0.60 mm 20 m  
1369 23



## Nylon Liner 8-Profile

- For metal frames
- Colour: Transparent

### 120 1728–29

**120 1728** 0.51 mm 10 m  
1369 00

**120 1729** 0.55 mm 10 m  
1369 01

## Nylon Liner T-Profile

- For plastic and metal frames
- Colour: Transparent

**120 1730** 1.3 mm 5 m  
1369 10

**130 6964** 1.8 mm 5 m

## Nylon Liner 8-Profile

- For metal frames

**120 1726** 0.55 mm 2 m  
1367 00



You will find our nylon liner tool No. 109 5079 and our nylon thread hook No. 120 2288 on page C 26 and C 27.



## Cement Strips – Acetate

**120 1004**  
0742 00

0.36 mm

100 pieces



## Acetate Sheets

• Colour: Light water

130 x 80 mm

**120 1010**  
0744 00

0.5 mm

3 pieces

**120 1011**  
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.

**120 1012**  
0744 20

150 x 8 x 65 mm



## Raw Temples Acetate

Colour: Black

An individual temple can be made out of this material. We reserve the right to change the colour.

**120 1013**  
0744 21

155 x 3.4 x 16 mm

2 pairs



## Acetate Material

To make practice pieces in various styles.

**120 1014–17**  
**120 1020–23**

150 x 6 x 65 mm

2 pieces

### one-layered

**120 1014**  
0744 31 Havana

**120 1016**  
0744 33 Blue

**120 1015**  
0744 32 Black

**120 1017**  
0744 34 Transparent

### two-layered

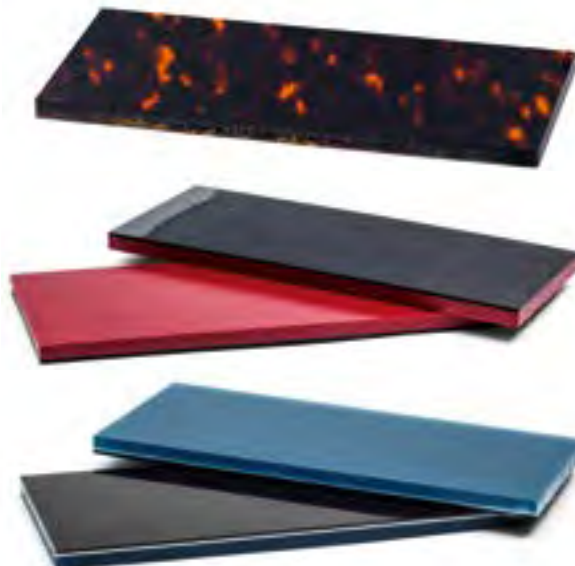
**120 1020**  
0744 50 Black/Red

**120 1021**  
0744 51 Dark blue/Transparent

### triple-layered

**120 1022**  
0744 60 Red/White/Smokey grey

**120 1023**  
0744 61 Brown/White/Transparent blue



## Eye Lid Lifter

For soldering or screwing.

**120 0520**  
0295 00



## Eye Wire

Half round, smooth.

**120 1706**  
1361 02



## 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.

**120 1694**  
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.

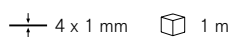
**120 1695**  
1354 03



## Flat Wire

- For solder training
- Material: German silver

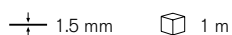
**130 1378**  
1362 01



## Round Wire

- For solder training
- Material: German silver

**120 1719**  
1363 01







# 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 Assortment Boxes 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

### 109 6948-49

- |                            |                  |
|----------------------------|------------------|
| <b>109 6948</b><br>1433 10 | Black/Light grey |
| <b>109 6949</b><br>1433 11 | Black/Dark grey  |



## 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

### 120 0078


0143 00




## Job Bags

- Job bags with separate pocket 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

#### 108 4074–76

**108 4074** Green  
1434 00  
**108 4075** Blue  
1434 01  
**108 4076** Red  
1434 02

### DIN A5 with pocket

 Pocket: 155 x 175 mm


 155 x 215 x 40 mm

 25 pieces

#### 120 1768–70

**120 1768** Green  
1434 20  
**120 1769** Blue  
1434 21  
**120 1770** Red  
1434 22

### DIN A6

 125 x 165 x 40 mm

 25 pieces


#### 120 1765–67

**120 1765** Green  
1434 10  
**120 1766** Blue  
1434 11  
**120 1767** Red  
1434 12

### DIN A6 with pocket

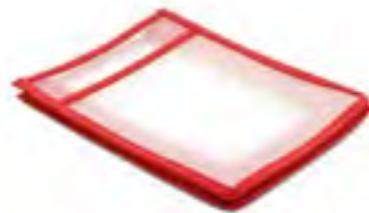
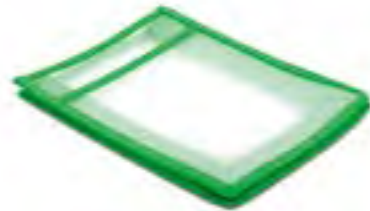
 Pocket: 105 x 110 mm

 125 x 165 x 40 mm

 25 pieces


#### 120 1771–73

**120 1771** Green  
1434 30  
**120 1772** Blue  
1434 31  
**120 1773** Red  
1434 32



## 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


**120 1757**  
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


**108 4073**

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

**120 1783**

1442 00

 20 pieces

**120 1784**

1442 10

 100 pieces



## Foam Inserts for Drawer

### For Ophthalmic Frames, Foam Insert Cuts to Size

- Outer measurements (W x H x D): 200 x 3.4 x 50 cm
- Inner measurements (H x D): 25/20 x 44 mm
- 39 compartments

**120 1755**

1430 20

Dark grey



### For Sunglasses, Foam Insert Cuts to Size

- Outer measurements (W x H x D): 200 x 4 x 50 cm
- Inner measurements (H x D): 32/20 x 60 mm
- 30 compartments

**120 1756**

1430 21

Dark grey



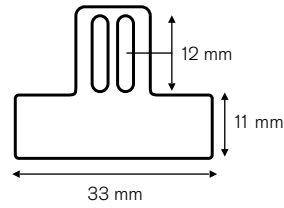
## Price Tags

- 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. 120 0010

**stable**

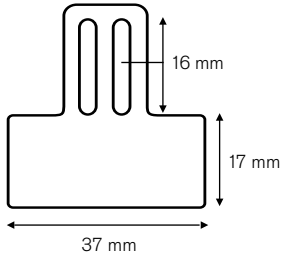
500 pieces

**120 0009**  
0080 01

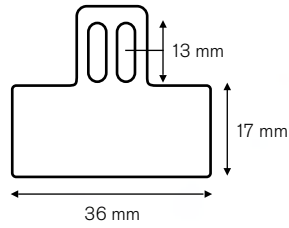


**flexible**

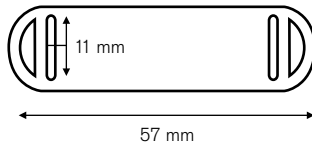
200 pieces each



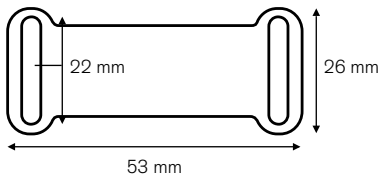
**108 1213**  
0083 00



**108 1214**  
0083 10



**120 0013**  
0083 40



**120 0014**  
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

**120 0010**  
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

### 120 1801-04

<b>120 1801</b> 1454 30	Transparent
<b>120 1802</b> 1454 31	Light blue
<b>120 1803</b> 1454 32	Red
<b>120 1804</b> 1454 33	Grey

### 120 1800 1452 30

Transparent

## Job Tray Labels

- 1-sided foil coating (rewritable)


 10 pieces

**120 0007**  
0077 00 For No. 120 1800 and 120 1801-04

## 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

### 108 3848, -50, -51, -52

<b>108 3848</b> 1448 30	Transparent frosted
<b>108 3850</b> 1448 32	Light blue frosted
<b>108 3851</b> 1448 33	Purple frosted
<b>108 3852</b> 1448 34	Fuchsia frosted





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. 120 1867.

 170 x 70 x 262 mm       10 pieces with labels

**120 1791**      Transparent  
1447 27



### 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. 120 1866.



 170 x 48 x 262 mm       10 pieces with labels

**120 1809**      Red  
1456 05  
**120 1810**      Transparent  
1456 27  
**120 1811**      Smoked glass  
1456 28



### Foam Insert

- For job trays with divisions No. 120 1791 and 120 1809–11
- Lenses can be removed easily – even with short or artificial fingernails
- Protects against chipping
- Colour: Anthracite


 80 x 10 x 80 mm       20 pieces

**120 1812**  
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. 120 1809–11

**120 1866**  2.2 kg  
1479 00

For 8 extra high job trays No. 120 1791

**120 1867**  1.8 kg  
1479 01



## 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

**120 1808** Transparent  
1455 27



## Job Tray Labels

- 1-sided foil coating (rewritable)


 80 x 25 mm  10 pieces

**120 0008** For No. 120 1791 and 120 1809–11  
0079 00



## Small Parts Organiser

- With 15 compartments for several spare parts
- Removable dividers
- Material: PP


 105 x 23.5 x 178 mm

**120 1776**  
1435 00



## Assortment Box with 5 Compartments

- With 5 compartments for several spare parts
- Material: PP


 130 x 35 x 90 mm

**120 1780**  
1438 00



## Assortment Box, medium

- Material: Impact-proof ABS plastic
- Safe locking fastener
- Stackable
- Dividing inserts available separately (No. 120 1789 and 120 1797)

 190 x 37 x 126 mm

**120 1788**  
1445 20



## Insert

For assortment box **No. 120 1788**, divided into 9 big compartments.

**120 1797**  
1451 00



## Insert

For assortment box **No. 120 1788**, divided into 25 small compartments.

**120 1789**  
1446 00



## Small Parts Box

With 7 separately opening compartments.  
Colour: Transparent

∅ 8.7 cm

 3 pieces

**120 1778**  
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



## 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

**120 1813** White  
1457 10

**120 1817** Blue  
1458 20



## 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


**120 1821**  
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

**120 1816**  
1457 20



## Small Parts Magazine, with 3 Drawers, including Hinged Boxes

- **Complete with:**
- 36 hinged boxes – No. 120 1813, white, **empty**
- 36 hinged boxes – No. 120 1817, blue, **empty**
- 16 hinged boxes – No. 120 1821, grey, **empty**
- Case colour: Light grey

 265 x 108 x 364 mm


**120 1824**

1459 50



## Small Parts Magazine, with 3 Drawers, without Hinged Boxes

- White, blue, grey – for storage of small parts
- Suitable for hinged boxes No. 120 1813, 120 1816, 120 1817 and 120 1821
- Maximum number of hinged boxes per drawer see No. 120 1824
- Case colour: Light grey

 265 x 108 x 364 mm

**120 1820**

1458 50



Assembly example



## Dispensing Cosmetic Mirror

- Diameter: 17 cm
- Height: 23 cm
- With 1 x and 2 x magnification

**120 6195**

7290 02



## Hand Cosmetic Mirror

- Diameter: 17 cm
- Total length: 30 cm
- With 1 x and 2 x magnification

**120 6196**

7290 03





Brillenfassung: *...*

Gläser /	F
KL	N

Lt. Verordnung Arzt; Refraktion:

Notizen:  
*Kunden anrufen*

Deliver: *...*

Bill. Co: *...*

Mont. *...*

Sp. *...*

W. *...*

H. *...*

...

Auftragsnummer: *90613*

Name: *Anna Hübner*

Anschrift: *...*

Telefon: *...*

E-Mail: *...*

F	R	Sph.	Cyl.	Achse	PD	Höhe	€
		L					
N	R	-5.0	-1.0	90	30	25	
	L	-5.5	-1.0	95	32	25	
Ø	R						
	L						

Werkstatthinweise (z.B. Facette poliert, besondere Pads, etc.):  
*- Bzgl. ausarbeiten*

Brillenfassung: *Rundfassung*


Lt. Verordnung Arzt; Refraktion:

Notizen:  
*! Rezept abgeben*

Summe in €







WHAT WE  
**DO TODAY**  
DECIDES WHAT  
**THE WORLD**  
WILL  
**LOOK LIKE**  
**TOMORROW**

- Marie von Ebner-Eschenbach -

We encounter the concept of sustainability in almost all areas of life and business. However, it is often reduced to the aspect of environment, but it encompasses far more areas. Ultimately, the aim of sustainable action is to bring the economy, the environment and society into harmony. For us as a Company, this means aligning our corporate success to the three pillars of ecology, economy and social responsibility. As a company with almost 100 years of experience, Breitfeld & Schliekert has always stood for steady growth,

quality and safety. For us, it is a matter of course to enable future generations to further develop established values in a meaningful way and to leave behind a planet worth living on.

Below are some examples of our sustainable commitment, although we must admit that we are far from perfect. New findings and developments constantly present us with new challenges, which we meet with motivation and conviction. We thus continually strive to become a little better every year.



### Ecology

Our building is 80% lit using innovative LEDs, with 80% energy savings.

Our packages are shipped CO<sub>2</sub>-neutrally by using DHL GO GREEN/GLS THINK GREEN.

We have switched our power supply to 100% green electricity.

We are a certified partner of the DHL Green Logistics Portfolio for sustainable shipping of imported goods from Asia.

We promote digital working and are gradually converting to a paperless office, i.e. no physical dispatch of order confirmations, invoices and Christmas cards, for example.

For our products, we strive to minimize packaging material and outer packaging and to reduce the amount of plastic.

Our printed products are produced on PEFC or FSC certified paper from guaranteed sustainable forestry.



### Economy

Our long-term corporate policy is based on securing locations and preserving jobs.

Our newly introduced ERP system optimizes work processes.

Our products are high quality and durable in keeping with the B & S tradition.

Meetings take place predominantly in video conferences, saving time and cost-intensive business trips.

We strictly comply with all current regulations and standards for our entire product portfolio according to the applicable legislation. These include: REACH; RoHS, WEEE and dangerous goods classification according to IATA and ADR.

We reduce fuel and CO<sub>2</sub> emissions through increasing use of electric vehicles and travel by train.



### Social responsibility

We guarantee job security with permanent employment contracts for new hires.

We offer training and further education opportunities for our employees and are a recognized training company.

Our corporate culture is based on the principle of diversity and equal opportunities for all.

We allow working from home to balance family and career.

During the coronavirus pandemic, we provided our employees with high-quality masks certified to FFP2 standards and rapid antigen tests free of charge.

Our employees can refuel their vehicles at several e-fueling stations on the company premises.

We also offer our employees the use of a fitness studio as well as the purchase of a company bicycle or e-bikes through a salary conversion plan.

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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:*

A series of horizontal dotted lines for writing notes, arranged in a regular pattern across the page.



This catalogue is again printed on certified paper – produced by sustainable forest management.  
For more information about the B&S environment initiative visit our homepage: [www.b-s.de](http://www.b-s.de)



## OUR CONTRIBUTION TO THE ENVIRONMENT: PAPER FROM SUSTAINABLE FORESTRY

Our new catalogue has 308 pages. With 5 languages and a total circulation of 11,300 catalogues, that makes approx. 3.5 million pages. With the estimated amount of paper needed, that makes the proud sum of approx. 217,073 m<sup>2</sup> of paper. That is almost approx. 10 tonnes of paper.

Conforming to our ethos of acting as sustainably as possible, we have decided, together with our printer WVD Westdeutsche Verlags- und Druckerei GmbH, to use a paper for the production of our catalogues that comes from a transparent processing chain: Artipress silk. **This wood-containing printing paper is PEFC certified, as is the printing company itself.**

**The goal of PEFC is the documentation and improvement of sustainable forest management with respect to economically viable, ecological and social standards.** Companies certified by PEFC show dedication to the environment and responsibility when working with the raw material of wood.

Here at Breitfeld & Schliekert we see the need to deal with our earth's limited resources responsibly and we try to implement this whenever possible to the best of our ability.



Promoting  
Sustainable Forest  
Management

[www.pefc.co.uk](http://www.pefc.co.uk)

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**Project Management** Katrin Gaarz, Bastian Trumpfheller, Christine Füger, Stefanie Henkler und Nadine Hauck  
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**Photo** Behrendt & Rausch, Martin Joppen Photographie  
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