PRECISION TOOLS

for complicated procedures

C

B&S Screwdrivers for Professionals “Made in Germany”

Durability, precision and perfect function.
No twisting or chipping of the screwdriver blades: hardened and refined knife blade steel for the perfect combination of hardness and flexibility.
Quickchange of the blade: perfectly accurate fit between blade and grip by simple clamping.
No pressure marks in your hand: ergonomic design, proven to work, offers a high level of functionality.
Don’t be satisfied with anything less.

B&S Designed Pro Screwdriver

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

120 2158–63 ⟷ 115 mm

120 2159 1664 01 Green	**120 2158** 1664 00 Green	**120 2160** 1664 10 Grey	**120 2161** 1664 14 Blue	**120 2162** 1664 18 Red	**120 2163** 1664 23 Black
					
					
Blade width: ⊕ **1.5 mm**	Blade width: ⊕ **2.0 mm**	Blade width: ⊖ **1.0 mm**	Blade width: ⊖ **1.4 mm**	Blade width: ⊖ **1.8 mm**	Blade width: ⊖ **2.3 mm**
Spare blade: **120 2270** 1711 26	Spare blade: **120 2269** 1711 25	Spare blade: **120 2264** 1711 10	Spare blade: **120 2265** 1711 14	Spare blade: **120 2266** 1711 18	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

OptiCar – Including Screwdrivers

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

120 2173
1664 60

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

B&S Nutdrivers 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.

B&S Designed Pro Nutdriver

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

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: **120 2273** 1711 40	Spare blade: **120 2274** 1711 42	Spare blade: **120 2275** 1711 43	Spare blade: **120 2276** 1711 44	Spare blade: **120 2277** 1711 45	Spare blade: **120 2278** 1711 46	Spare blade: **120 2279** 1711 48	Spare blade: **120 2280** 1711 49

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

3 pieces

OptiCar – Including Nutdrivers

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

120 2176
1664 70

Revolving Depot

- Revolving aluminium stand
- With 8 nutdrivers 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 nutdrivers 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 nutdriver
- Ribbed grip surface for perfect grip
- Coloured, **round knob flattened on one side,** to prevent the screwdriver moving on the workbench
- Wing blades to avoid twisting inside the handle
- Shaft size: 3.0 mm, wing blade

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: **120 2202** 1682 46	Spare blade: **120 2201** 1682 45	Spare blade: **120 2196** 1682 30	Spare blade: **120 2197** 1682 34	Spare blade: **120 2198** 1682 38	Spare blade: **120 2199** 1682 40

Spare blades: 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 Nutdriver from the Standard Series

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

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: **120 2214** 1682 80	Spare blade: **120 2215** 1682 82	Spare blade: **120 2216** 1682 83	Spare blade: **120 2217** 1682 84	Spare blade: **120 2218** 1682 85	Spare blade: **120 2219** 1682 86	Spare blade: **120 2220** 1682 88	Spare blade: **120 2221** 1682 89

Spare blades: Shaft size 3.0 mm, wing blade

2 pieces

Revolving Depot

- With 8 nutdrivers 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

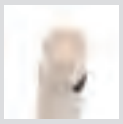
- With 8 nutdrivers from the B & S Standard series
- 4 Hexagon 2.0; 2.2; 2.3; 2.6 mm
- 4 Star 2.0; 2.1; 2.2; 2.6 mm

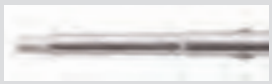
120 2223
1682 92

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	**120 2230** 1684 15 Hexagon 1.5	**120 2231** 1684 20 Hexagon 2.0	**120 2232** 1684 21 Hexagon 2.1
			
			
Spare blade: **120 2239** 1684 63	Spare blade: **120 2240** 1684 65	Spare blade: **120 2241** 1684 70	Spare blade: **120 2242** 1684 71



Spare blades:
Shaft size 3.0 mm, wing blade

3 pieces

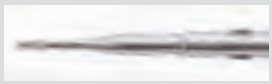
You will find our Torx screws on page F 40.

B & S Torx Driver from the Standard Series

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

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: **120 2243** 1684 82	Spare blade: **109 6714** 1684 83	Spare blade: **109 6715** 1684 84	Spare blade: **109 6716** 1684 85	Spare blade: **109 6717** 1684 86



Spare blades:
Shaft size 3.0 mm, wing blade

3 pieces

Torx Screw Driver 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
1666 00
119 mm
35 g

Suitable replacement blades
No. 120 2264–66 and 120 2268–70
can be found on page C 2.

Screwdriver with Blade Storage

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

120 2188
1678 00
119 mm
31 g

Suitable replacement blades
No. 120 2264–66 and 120 2268–70
can be found on page C 2.

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

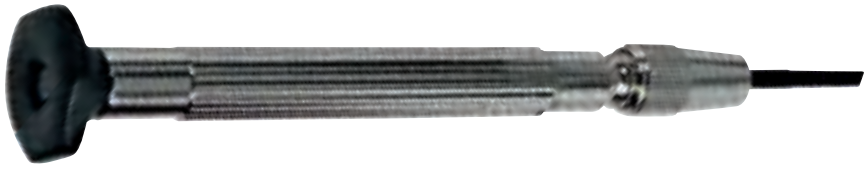
120 2248
1690 00
119 mm
21 g

Suitable replacement blade
No. 120 2266
can be found on page C 2.

Universal Screwdriver with Blade Storage

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

120 2282
1717 00
115 mm
30 g



Suitable replacement blades
No. 120 2264–66 and 120 2268–70
can be found on page C 2.

Small Metal Screwdriver

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

120 2356
1798 16
10 pieces (2 per colour)

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*	120 2260 1693 10	3 pieces
1.5 mm	⊖	Blade	1662 15*, 1680 15*, 1700 15*	120 2261 1693 15	3 pieces
1.8 mm	⊖	Blade	1662 18*, 1680 18*, 1700 18*	120 2262 1693 18	3 pieces
2.3 mm	⊖	Blade	1662 23*, 1680 23*, 1700 23*, 120 2294	120 2263 1693 23	3 pieces
1.0 mm	⊖	Blade	1669 . . *	120 2183 1669 10	2 pieces
1.4 mm	⊖	Blade	1669 . . *	120 2184 1669 14	2 pieces
1.8 mm	⊖	Blade	1669 . . *	120 2185 1669 18	2 pieces
2.0 mm	⊕	Crossblade	1669 . . *	120 2187 1669 25	2 pieces
2.3 mm	⊖	Blade	1682 23*, 1683 23*	120 2200 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 nutdrivers with the most used nutdriver blades made of high quality steel. The stop inside the blade which is typically for B&S nutdrivers prevents the nut from annoyingly “disappearing” into the shaft.

Nutdriver Set

Content 7 nutdrivers:
No. 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	120 2336	120 2338	120 2340	120 2342	120 2344	120 2346	120 2348	120 2350
1742 00	1743 00	1744 00	1745 00	1746 00	1747 00	1748 00	1749 00	1767 00
⬡ 2.6 mm	✪ 2.6 mm	⬡ 2.2 mm	✪ 2.0 mm	✪ 2.1 mm	⊖ 2.8 mm	⬡ 2.0 mm	⬡ 2.3 mm	✪ 2.2 mm
								
Grip No. 2	Grip No. 3	Grip No. 4	Grip No. 5	Grip No. 6	Grip No. 7	Grip No. 8	Grip No. 9	Grip No. 0
Big hex nuts	Big star nuts, 6 points	Small hex nuts	Big star nuts, 4 points	Star nuts, 6 points, for the most common nuts	Slotted nuts	Hex socket star type, 6 points	Hexagonal, for dome nuts 120 1312–14	Star nuts, 6 points, for big star nuts

Nutdriver Set

Content 5 nutdrivers:
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

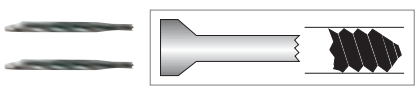
Screw Remover with Blade Storage

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
1691 00
119 mm
25 g

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 nutdriver: Inner diameter: 2.2 mm
1 star nutdriver: 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 2.

“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 nutdriver blades (hexagon):
Inner diameter: 2.0, 2.3 and 2.5 mm

120 2301
1728 00

Spare Blade Set (without illustration)

To metal stand “Third Hand” No. 120 2301.
Containing 5 blades.

120 2302
1728 01

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

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

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

120 2303
1728 10

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

TOP PRODUCT

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
1639 00
100 mm
35 g

Gripper

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

120 2148
1636 00
75 mm
180 g

Tweezer – Push-in Nose Pads

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

120 2144
1626 00
100 mm
15 g

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
1631 00
110 mm
17 g

Tweezer – Pointed

- Pointed, nickel plated

120 2137
1621 00
110 mm
18 g

Titanium Soldering Tweezer

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

120 2141
1623 10
160 mm
15 g

Solder Tweezer

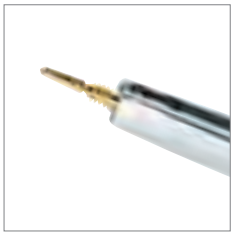
- With insulated grips, polished steel

120 2142
1624 00
160 mm
35 g

Screw Holder

Angled – with Locking Mechanism

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



120 2157
1653 00
110 mm
11 g

The Classic

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

120 2156
1651 00
130 mm
30 g

Pointed Tip

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

120 2147
1634 00
105 mm
10 g

Cross Tweezer

- To start rotating the screw into the thread

120 2143
1625 00
155 mm
32 g

Screw Holder with Locking Mechanism

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

109 6135
1637 00
135 mm
30 g

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

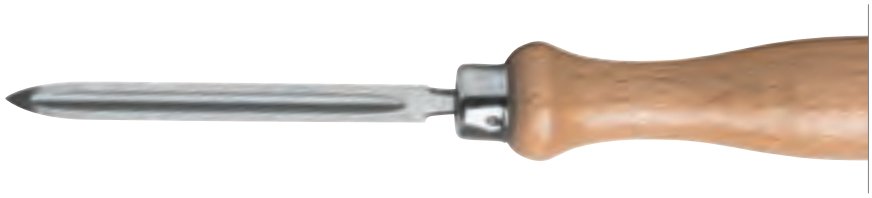
240 mm 100 g

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.	∅	Order No.	∅
120 2578 2051 31	1.0 mm	**120 2583** 2051 36	1.7 mm
120 2579 2051 32	1.1 mm	**120 2584** 2051 37	1.9 mm
120 2580 2051 33	1.2 mm	**120 2585** 2051 38	2.0 mm
120 2581 2051 34	1.3 mm	**120 2586** 2051 39	2.2 mm
120 2582 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
2053 00 25 g 6 pieces

Reamer Assortment for Single Jets

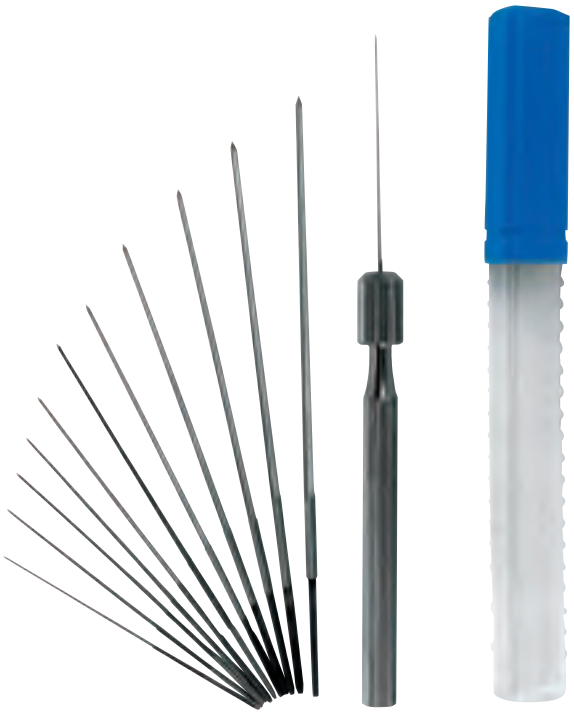
- With plastic handle, for cleaning of jets
- Reamers-Ø: 0.05; 0.08; 0.10; 0.15; 0.20; 0.25; 0.30; 0.35; 0.40; 0.45; 0.50 and 0.55 mm

120 3104
2840 20 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
2050 00 30 g 12 pieces



Screw Tap

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

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

3 approx. 3 minutes each

This is how it works

Option 1: While mounting nose pads

1 ATTACH

2 MOUNTING OF NOSE PADS

Option 2: While mounting rim joints

1 ATTACH

2 UNSCREW/TIGHTEN

Option 3: Cutting screws on rimless frames

1 ATTACH

2 CUT OFF

3 LEVEL WITH A FILE

YouTube **Application videos can be found at www.youtube.com/user/BreitfeldSchliekert**

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 dismounting 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

5 approx. 5 minutes each

This is how it works

1 TAKE OFF

2 REMOVE

3 THREAD

4 SET IN

5 CUT TO SIZE

6 THREAD

7 INSERT

YouTube Application videos can be found at www.youtube.com/user/BreitfeldSchliekert

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 85.

Nylon Thread Hook

- For easy assembly of lenses into supra frames

120 2288 105 mm 13 g
1719 00

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 Blue ∅ 1.4 mm
2267 10
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

<1 approx. 30 seconds

This is how it works

1 **MOUNTING**

2 **TURN AROUND**

3 **ATTACHING**

4 **CUTTING**

5 **DONE**

YouTube **Application videos can be found at www.youtube.com/user/BreitfeldSchliekert**

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
2266 20

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

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

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
2240 57
68 x 58 x 66 mm
85 g

120 2745
2264 00

120 2722
2240 15

120 2731
2240 37

120 2733
2240 42

121 1807
2240 40

120 2736
2240 49

120 2725
2240 26

120 2720
2240 07

120 2721
2240 11

120 2727
2240 31

120 2728
2240 32

120 2729
2240 33

120 2730
2240 34

120 2724
2240 19

120 2726
2240 29

120 2723
2240 18

You will find our hand drilling machines on page A 32.

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**	**120 2720** 2240 07
Grinder, cylindric	**To grind unhardened and alloyed steel**	**2.5 x 6.5**	**20,000–30,000**	**120 2721** 2240 11
Brass wire brush	**To rework soldering joints**	**21 x 1.8**	**10,000**	**120 2722** 2240 15
Silicone impregnated muslin wheel	**To polish plastic materials**	**Ø 22**	**5,000**	**120 2723** 2240 18
Wool buffing wheel	**To polish plastic and ceramic**	**Ø 20**	**8,000**	**120 2724** 2240 19
Flannel buffing wheel	**To polish plastic and metal**	**Ø 20**	**5,000**	**120 2726** 2240 29
Silicone burnisher, middle, pin	**To work on metal, plastic and ceramic**	**4.5 x 12**	**7,000–10,000**	**120 2727** 2240 31
Silicone burnisher, middle, wheel	**To work on metal, plastic and ceramic**	**11 x 2**	**7,000–10,000**	**120 2728** 2240 32
Silicone burnisher, fine, pin	**For high gloss on metal alloy**	**5 x 10**	**7,000–10,000**	**120 2729** 2240 33
Silicone burnisher, fine, wheel	**For high gloss on metal alloy**	**14 x 2.5**	**7,000–10,000**	**120 2730** 2240 34
Groove miller, facet	**To rework frame grooves**	**17 x 2.8**	**2,000–4,000**	**120 2731** 2240 37
Steel miller, bud shape	**To work on metal, plastic and wood**	**Ø 6**	**8,000–12,000**	**121 1807** 2240 40
Cutting wheel (10 pieces) inclusive mandrel	**To cut metal and plastic**	**22 x 0.8**	**30,000**	**120 2733** 2240 42
Diamond grinder, conical	**For fine grinding and planing**	**Ø 1.6**	**30,000**	**120 2736** 2240 49
Diamond miller	**To groove rims of lenses**	**5 x 0.6**	**15,000–18,000**	**120 2745** 2264 00
Trimming wheel, fine	**For finishing metal, plastic and wood**	**Ø 25**	**10,000**	**120 2725** 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
120 2554 2038 05	**0.5 mm**
120 2555 2038 06	**0.6 mm**
120 2556 2038 07	**0.7 mm**
120 2557 2038 08	**0.8 mm**
120 2558 2038 09	**0.9 mm**
120 2559 2038 10	**1.0 mm**
120 2560 2038 11	**1.1 mm**
120 2561 2038 12	**1.2 mm**
120 2562 2038 13	**1.3 mm**
120 2563 2038 14	**1.4 mm**
120 2564 2038 15	**1.5 mm**
120 2565 2038 16	**1.6 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

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
120 2515 2032 05	**0.5 mm**	**0.5 mm**
120 2516 2032 06	**0.6 mm**	**0.6 mm**
120 2517 2032 07	**0.7 mm**	**0.7 mm**
120 2518 2032 08	**0.8 mm**	**0.8 mm**
120 2519 2032 09	**0.9 mm**	**0.9 mm**
120 2520 2032 10	**1.0 mm**	**1.0 mm**
120 2521 2032 11	**1.1 mm**	**1.1 mm**
120 2522 2032 12	**1.2 mm**	**1.2 mm**
120 2523 2032 13	**1.3 mm**	**1.3 mm**
120 2524 2032 14	**1.4 mm**	**1.4 mm**
120 2525 2032 15	**1.5 mm**	**1.5 mm**
120 2526 2032 16	**1.6 mm**	**1.6 mm**
120 2527 2032 17	**1.7 mm**	**1.7 mm**
120 2528 2032 18	**1.8 mm**	**1.8 mm**
120 2529 2032 20	**2.0 mm**	**2.0 mm**

HSS Spiral Drill Set, 30 pieces

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

120 2530
2032 50

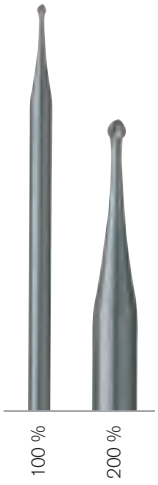
210 x 18 x 113 mm 140 g

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
120 2550 2037 10	**1.0 mm**
120 2551 2037 12	**1.2 mm**
120 2552 2037 14	**1.4 mm**
120 2553 2037 16	**1.6 mm**



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

Drill Miller for NIDEK

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

120 2687–88 10 pieces

Order No.	Size
120 2687 2209 08	**0.8 mm**
120 2688 2209 10	**1.0 mm**

Groove Miller

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

120 2734
2240 44

Groove Miller

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

120 2735
2240 45

Hard Metal Drill for Plastic Lenses

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

120 2531–45 38 mm

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

Hard Metal Drill Set for Plastic Lenses

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

120 2549
2035 60 86 x 10 x 53 mm 60 g

Hard Metal Miller for Plastic Lenses

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

120 2700–07 38 mm

double cut

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

You will find our drilling machines starting page A 28.

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
2035 50 86 x 10 x 53 mm 60 g

Drill Miller for Plastic Lenses

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

120 2689–93 38 mm

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

Drill Miller Set for Plastic Lenses

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

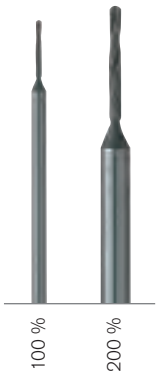
120 2694
2210 50 86 x 10 x 53 mm 43 g

Diamond Spiral Drill

- For drilling glass and ceramic
- Working speed: **approx. 20,000 rpm**
- Shaft size: **2,34 mm**

120 2572–73

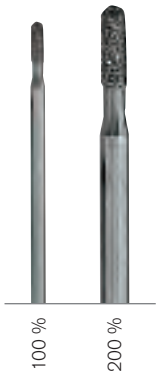
Order No.	Drillbit length	Size
120 2572 2044 10	**7.0 mm**	**1.0 mm**
120 2573 2044 12	**9.0 mm**	**1.2 mm**



Diamond Drill

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

120 2742
2260 16 1.6 mm



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, 120 2743 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
35 mm

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
44.5 mm

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

Core Miller

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

120 2718
2237 50
23 mm

Screw End Miller

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

121 1806
2215 19
44 mm

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
35 mm

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

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
44.5 mm
2 pieces

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

Tool Holder

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

120 2592
2062 00
90 mm
10 g

Reamer Holder

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

120 2593
2065 00
80 x 6 mm
15 g

Tool Holder

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

120 2595
2068 00
90 mm
25 g

Precision Tool Holder

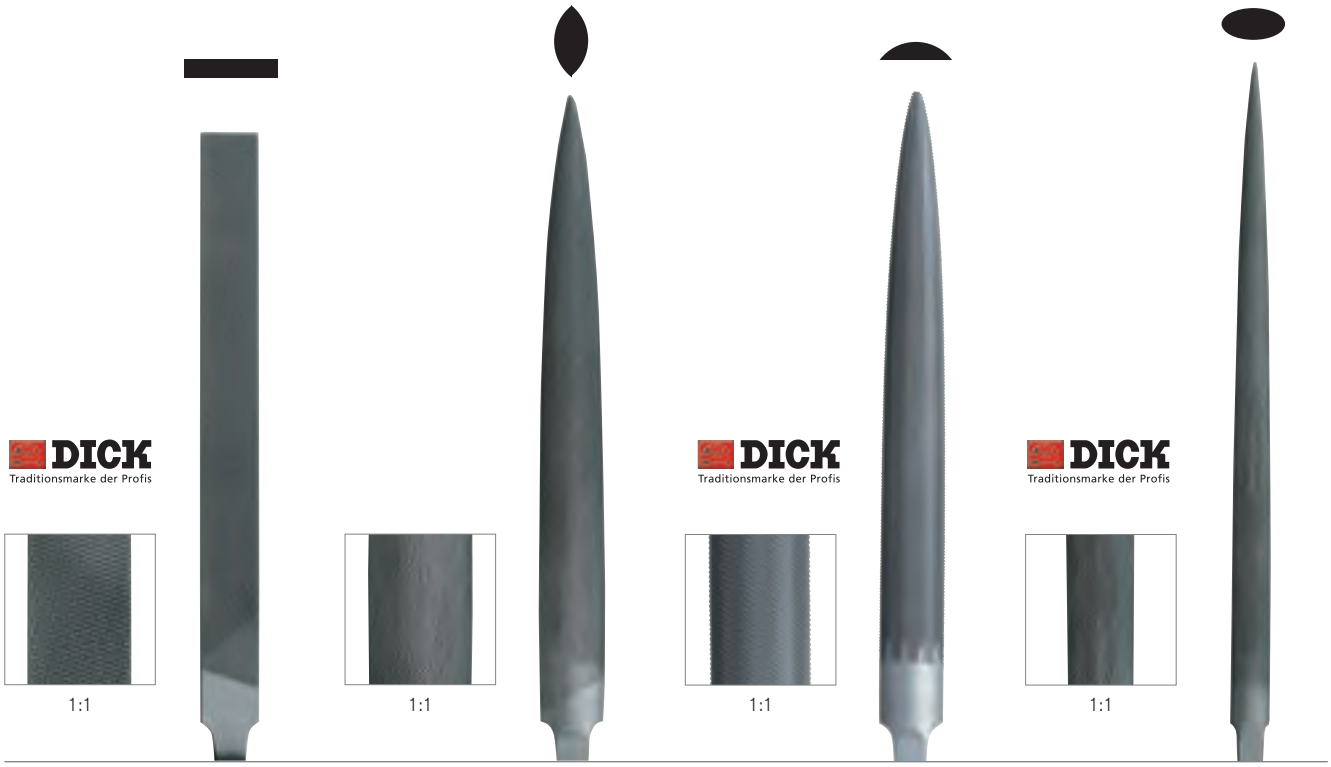
- 2 exchangeable steel clamps
- Black plastic handle with revolving knob
- **Second clamp accomodated in handle**
- Additional tools can be stored inside the handle
- Clamping: **0 to 1.5 and 1.5 to 2.5 mm**

120 2596
2069 00
100 mm
37 g

Precision Tool Holder

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

120 2597
2070 00
100 mm
34 g



Precision File Flat, Large

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

DICK Traditionsmarke der Profis

TOP PRODUCT

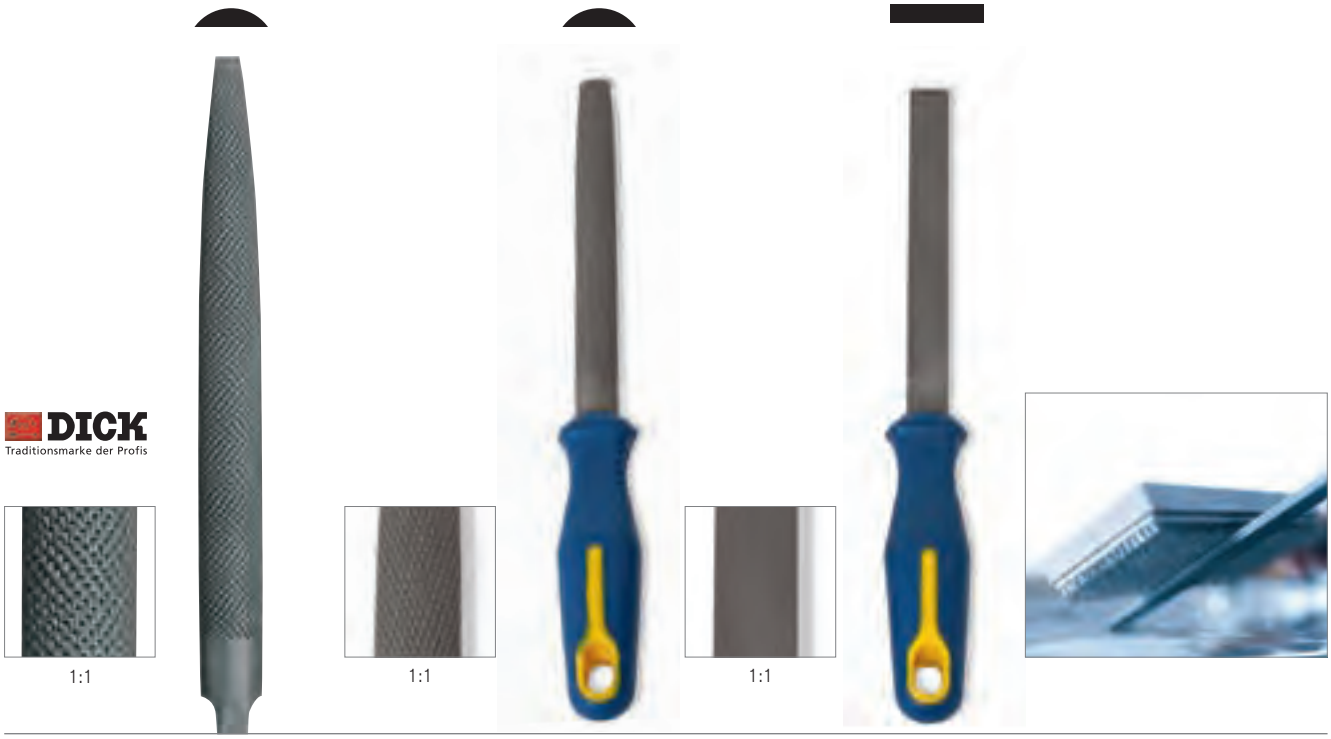
Precision File Flat, Small, including Handle

- 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 and E 32.



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

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

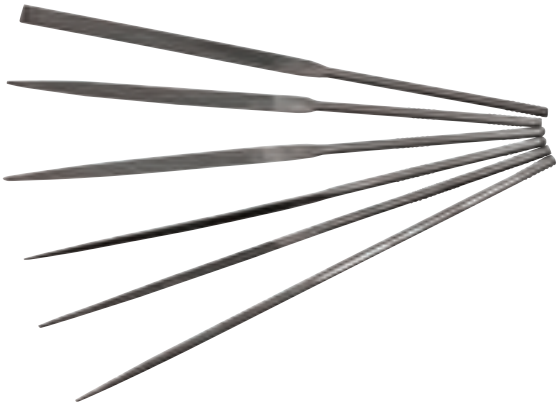
- For work on plastic
- In plastic pouch, different shapes (flat, semicircular, trident, square type, round, flat with tapered tip)
- Cut: 2
- Length of cut: 70 mm

120 2382
1849 60
140 mm
6 pieces

Needle File Assortment

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

120 2380
1848 50
100 mm
6 pieces



Needle File Assortment

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

120 2381
1849 00
140 mm
12 pieces

Diamond Needle File Assortment

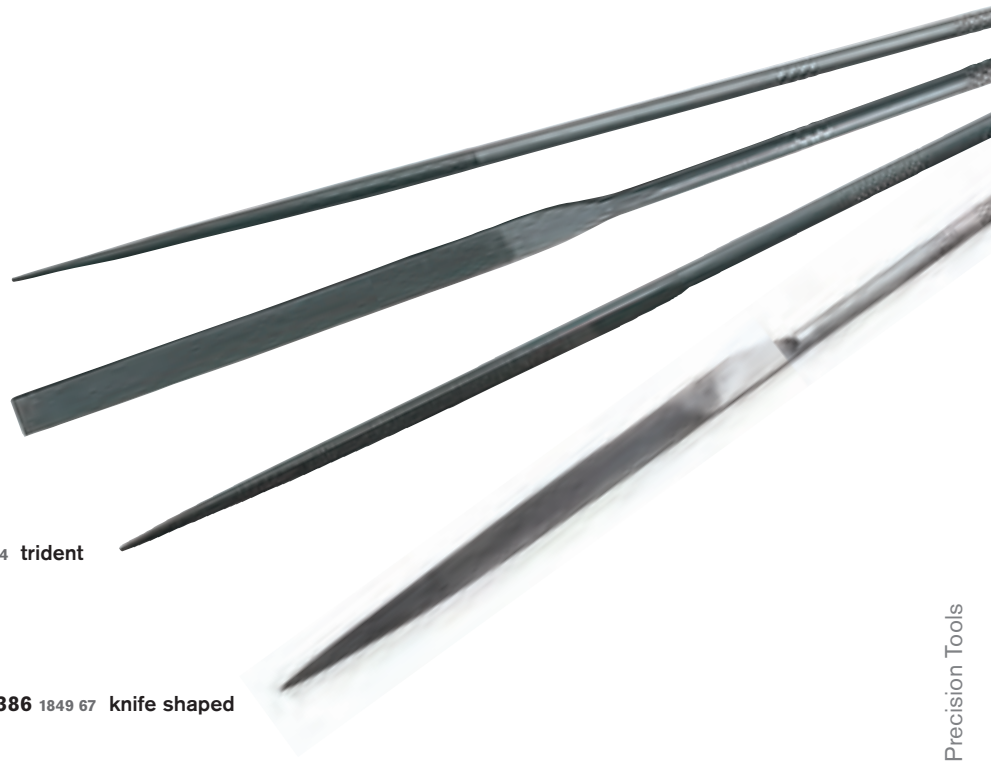
- For work on **steel, lenses, ceramic**
- In plastic pouch, different shapes (flat, trident, square type, round, flat with tapered tip, oval, biretta, lenticular, semicircular, knife-shaped)
- Length of cut: 50 mm

120 2360
1801 50
140 mm
10 pieces

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

109 6652
1860 15

Lens Drill Hole and Hinge Files

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

120 mm

1 g

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

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
2106 00
1.5 kg

Plastic Jaws (without illustration)

- Suitable for No. 120 2609

120 2612
2117 01
1 pair

Vice

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

120 2611
2107 00
2 kg

Ball Joint Vice

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

120 2608
2105 30
825 g

Self-Adhesive Felt for Vise Jaws

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

120 2617
2121 20
15 x 3 mm
1 m

Aluminium Jaws

- For easy attachment, suitable for all vices

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

Filing Vice

- For filing of temple stops with its clamp

120 2297
1724 00
170 g

Hack Saw

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

120 2666
2152 00
295 mm

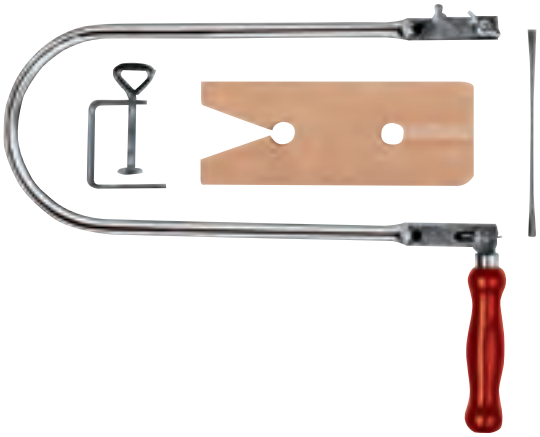
Standard Blades for Hack Saw

120 2667
2152 10
150 mm
10 pieces

Fret Saw Working Set

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

120 2665
2151 00
390 g



Fret Saw Timber (without illustration)

- With two clamps and metal sleeve

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

Spare Screw Set (without illustration)

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

120 2668
2158 01
9 g
2 pieces

Spare Clamps (without illustration)

120 2670
2160 01
2 pieces

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
2198 01
∅ 0.8 mm

120 2681
2198 02
∅ 1.2 mm

120 2682
2198 03
∅ 1.5 mm

Fret Saw Blades

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

120 2683–86 each 12 pieces

120 2683
2199 03
∅ 0.8 mm

120 2684
2199 04
∅ 0.9 mm

120 2685
2199 05
∅ 1.0 mm

120 2686
2199 07
∅ 1.2 mm

Fret Saw Blades

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

120 2677–79 each 12 pieces

120 2677
2196 01
∅ 0.5 mm

120 2678
2196 02
∅ 0.7 mm

120 2679
2196 03
∅ 1.0 mm