



THE HINGE COMPANY



Catalogue
2026 | 2027

OBE – YOUR NO. 1 CHOICE FOR EYEWEAR HINGES

200
PATENTS

100 MILLION
HINGES

550
EMPLOYEES

10
LOCATIONS

ABOUT US

KEY FACTS

OBE GmbH & Co. KG with its headquarters in Germany is one of the very few international large-scale manufacturers of eyewear components. Our mission is to offer an optimum articulation and comfort for all kind of spectacles. The company was founded in 1904 and today we have 2 production facilities in Germany and China. In total the OBE group has 500 employees including our subsidiaries and representations in the key optical production markets world-wide. Since 1996 we have been certified according to DIN EN ISO 9001:2015. We also implemented in the same year an environmental management system obtaining the certification according to DIN EN ISO 14001 and EMAS. By 2040 OBE aims to be carbon neutral.

We produce roughly 500.000.000 components per year and each day we process approx. 2.000.000 parts at our factories. Our core technologies are machining of profiles, CNC machining, over moulding of screws and hinges, surface treatment by galvanic and tumbling, automated laser welding of hinges and assembling of mechanisms. Our fully automated warehouse system in combination with a monthly production plan and an established supply chain management guarantee our reliable delivery capabilities. Apart from Germany we also have warehouses in China, Hong Kong, Italy and Japan.



ENVIRONMENTAL MANAGEMENT

OUR CERTIFICATIONS

In 2017, we received the certification for our environmental management system, highlighting our commitment to sustainability across all areas of the company. Our certifications under DIN ISO 9001:2015, EMAS No. 1221/2009, and DIN EN ISO 14001 demonstrate our high-quality standards and our environmental management for the development, manufacturing, and distribution of small metallic parts and assemblies.



DIN EN ISO 14001



1221/2009 (EMAS)



DIN EN ISO 9001:2015

DIRECTORY



ACETATE & COMBINATION FRAMES

5

METAL & COMBINATION FRAMES

45

INJECTION & 3D PRINTED FRAMES

73

PURE TITANIUM FRAMES

89

FRAMES MADE FROM SPECIAL MATERIALS

99

SPECIAL SCREWS AND ACCESSORIES

103

SMART GLASSES

115

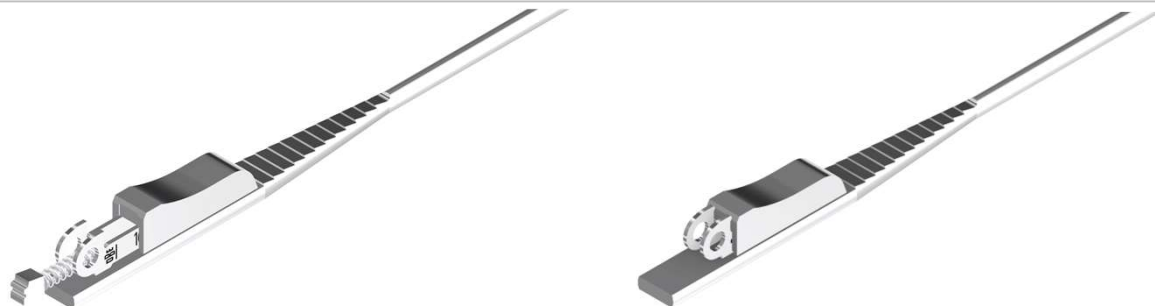
ACETATE & COMBINATION FRAMES

FLEX HINGES FOR INSERTING

	PRODUCT	ARTICLE NO.	PAGE
CLASSIC TWO-BARREL FLEX 	FLEXUNO NICKEL SILVER	73-04062 73-04063 73-04064	6 7 8
	FLEXUNO STAINLESS STEEL	73-44062 73-44063	9 10
CLASSIC ONE-BARREL FLEX 	LITELINE	73-08080 73-08084 73-08088	11 12 13
DESIGN TWO-BARREL FLEX 	MINI	73-44031	14
	WAFERPLUS	73-05043	15
	WAFER	73-04066.XXX 73-04061.40X	16 17
	SPIKE	73-04066.75X	18
FULL HIDDEN FLEX 	CACHÉ	73-07050	19
	CACHEW	60-08042.50X	20
	CUBEFLEX	60-08050.69Z.XY	21

FLEXUNO NICKEL SILVER - 2.7 mm

- Nickel silver spring hinge on wire - nickel plated
- Stable U-shaped mechanism in stainless steel already pre-assembled
- Zero rocking & easy adjustment with flexUno two-barrel construction



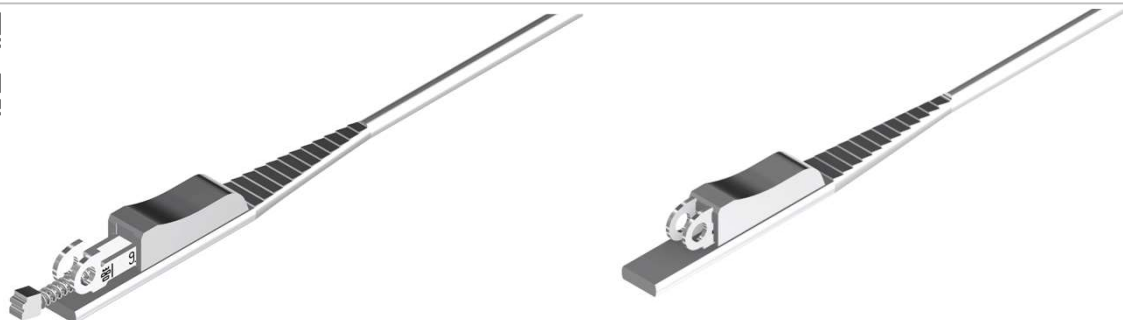
patented

73-04062.70X	insertion	mechanism exchangeable	73-04062.40X	insertion	mechanism not exchangeable
Barreling cap for case 91-20219			Barreling cap for case 91-20219		

Matching parts			
Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Screws
33-05062 33-04262 off center 0°/6° inclination	33-04062	52-05462	99-01730 99-02016 99-04724 99-02016.800 self aligning for break off

FLEXUNO NICKEL SILVER - 3.0 mm

- Nickel silver spring hinge on wire - nickel plated
- Stable U-shaped mechanism in stainless steel already pre-assembled
- Zero rocking & easy adjustment with flexUno two-barrel construction



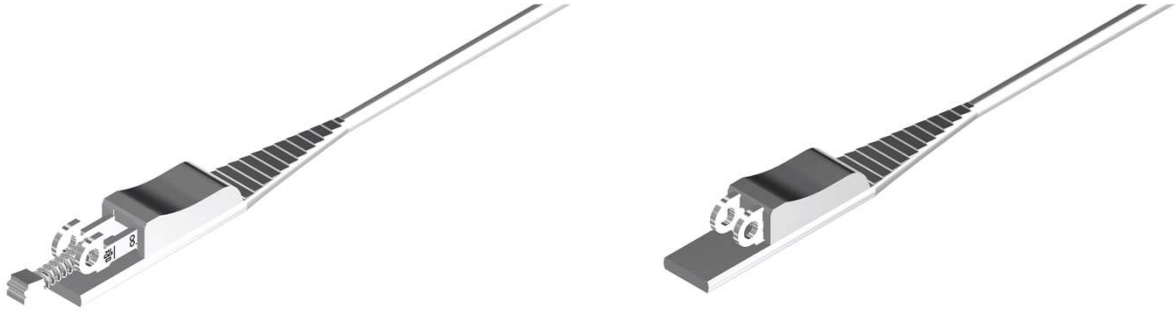
patented

73-04063.70X	insertion	mechanism exchangeable	73-04063.40X	insertion	mechanism not exchangeable

Matching parts					
Front hinges for soldering	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Screws
52-05067 52-04263	33-05363 33-04163 off center 33-04067 33-02363 0°/6° inclination	33-04063	52-05363 52-05463 52-05563	51-05130 0°/6° inclination Matching rivets: see page 114	99-01814 99-02524 99-04814 99-02524.800 self aligning for break off

FLEXUNO NICKEL SILVER - 4.3 mm

- Nickel silver spring hinge on wire - nickel plated
- Stable U-shaped mechanism in stainless steel already pre-assembled
- Zero rocking & easy adjustment with flexUno two-barrel construction



patented

73-04064.70X	insertion	mechanism exchangeable	73-04064.40X	insertion	mechanism not exchangeable
Barreling cap for case 91-20212		Barreling cap for case 91-20212		Barreling cap for case 91-20212	

Matching parts					
Front hinges for soldering	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Screws
52-04264	33-05164 33-04164 off center 33-02364 0°/6° inclination	33-04064	52-05164 52-05264	51-05129 0°/6° inclination Matching rivets: see page T14	99-01816 99-02503 99-04816 99-02503.800 self aligning for break off 99-02591 self aligning

FLEXUNO STAINLESS STEEL - 2.7 mm

- 100% stainless steel spring hinge on wire - zero corrosion
- Stable U-shaped mechanism already pre-assembled
- Zero rocking & easy adjustment with flexUno two-barrel construction
- All matching parts made from stainless steel

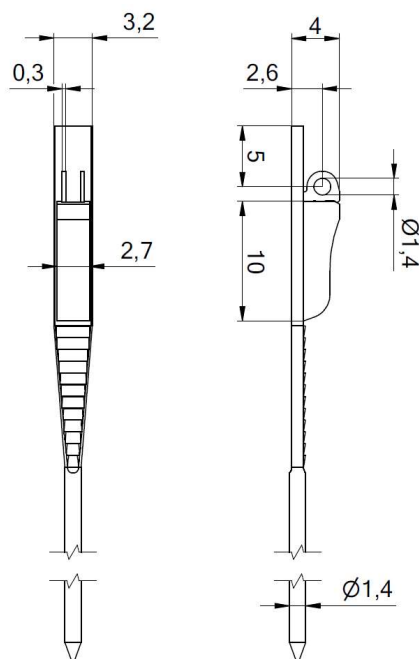


patented

73-44062

insertion

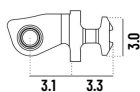
mechanism not exchangeable



Barreling cap for case 91-20219

Stainless steel matching parts

Front hinges
for plastic frames 90°



52-45062

Screws



99-01730
99-02016
99-04724

FLEXUNO STAINLESS STEEL – 3.0 mm

- 100% stainless steel spring hinge on wire – zero corrosion
- Stable U-shaped mechanism already pre-assembled
- Zero rocking & easy adjustment with flexUno two-barrel construction
- All matching parts made from stainless steel



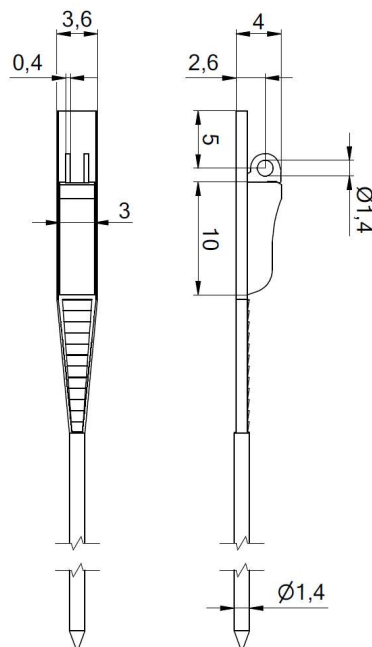
patented

73-44063

insertion

mechanism not exchangeable

TWO-BARREL

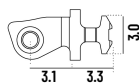


Barreling cap for case 91-20217

Stainless steel matching parts

Front hinges
for plastic frames 90°

Screws



33-44163

99-01814
99-02524
99-04814

LITELINE - 2.0 mm

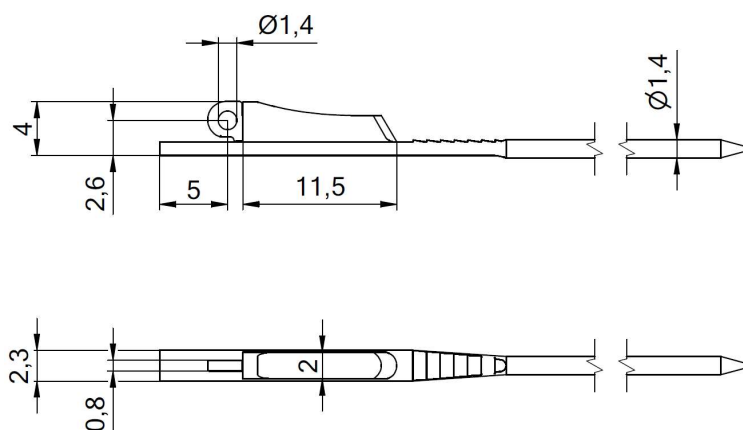
- Nickel silver spring hinge on wire - nickel plated
- Stable stainless steel mechanism already pre-assembled



73-08080.30X

insertion

mechanism not exchangeable



Barreling cap for case 91-20222

Matching parts

Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Screws
33-05105	33-05010	52-05112	99-01803 99-02530 99-04803

LITELINE - 2.4 mm

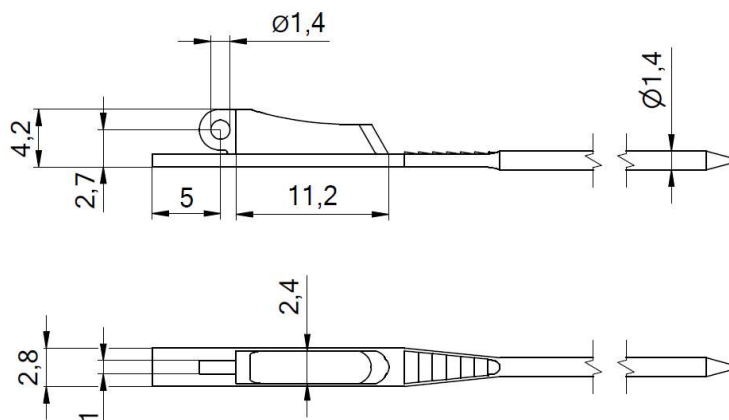
- Nickel silver spring hinge on wire - nickel plated
- Stable stainless steel mechanism already pre-assembled



73-08084.30X

insertion

mechanism not exchangeable



Barreling cap for case 91-20201

Matching parts

Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Screws
33-05104	33-05012	52-05111	99-01811 99-02525 99-04811

LITELINE - 2.8 mm

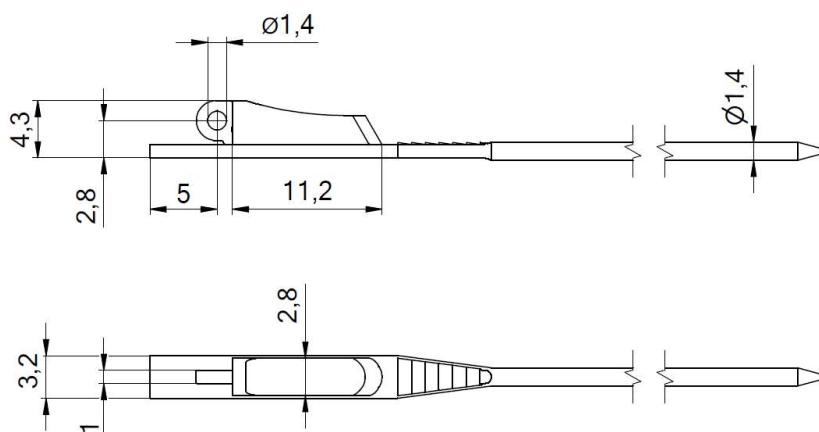
- Nickel silver spring hinge on wire - nickel plated
- Stable stainless steel mechanism already pre-assembled



73-08088.30X

insertion

mechanism not exchangeable



Barreling cap for case 91-20221

Matching parts

Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Screws
33-05106	33-05063	52-05153	99-01813 99-02501

MINI - 3.3 mm

- 100% stainless steel spring hinge on wire with short case - zero corrosion
- Elegant low construction
- Zero rocking & easy adjustment with flexUno two-barrel construction



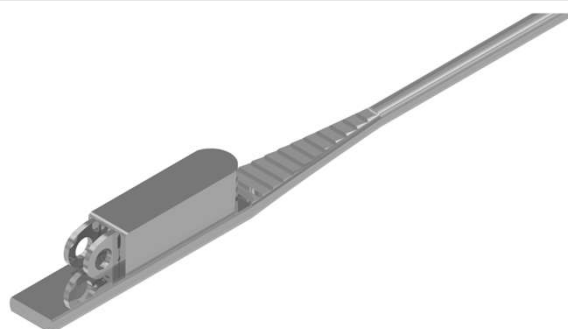
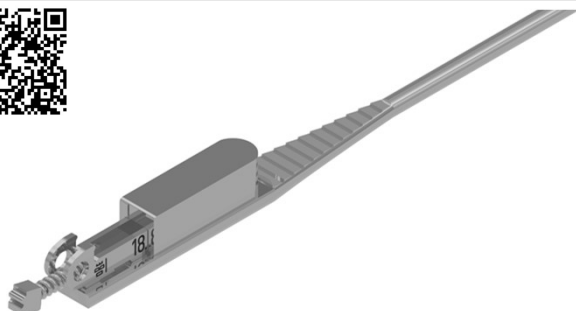
patented

73-44031.50X	insertion	mechanism exchangeable	73-44031.30X	insertion	mechanism not exchangeable

Matching parts					
Front hinges for soldering	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Screws
52-44131 stainless steel	33-04031 nickel silver 33-44031 stainless steel	33-04131 nickel silver	52-04231 nickel silver	51-04031 Matching rivets: see page 114	99-01764 99-02030 stainless steel

WAFERPLUS - 3.0 mm

- Round shaped nickel silver spring hinge on wire - nickel plated
- High performance - equipped with extra strong spring
- Zero rocking & easy adjustment with flexUno two-barrel construction

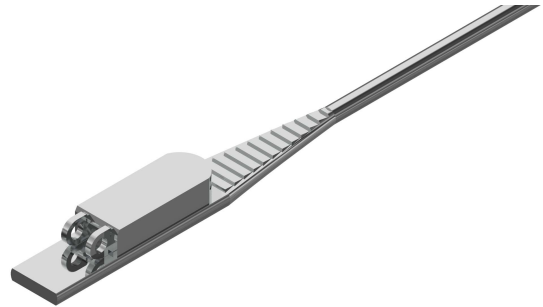
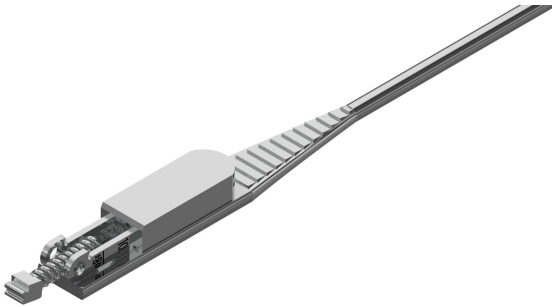


73-05043.50X	insertion	mechanism exchangeable	73-05043.30X	insertion	mechanism not exchangeable
Technical drawing of the 73-05043.50X hinge assembly. The front view (left) shows a vertical assembly with a top cap of width 3.6, two small holes of diameter 0.4, a main body height of 10.3, and a tapered base with a width of 3.1. The side view (right) shows a vertical pin with a top cap of width 3, a hole of diameter 1.6, a main body of width 3, and a bottom pin with a diameter of Ø1.4.		Technical drawing of the 73-05043.30X hinge assembly. The front view (left) shows a vertical assembly with a top cap of width 3.6, two small holes of diameter 0.4, a main body height of 10.3, and a tapered base with a width of 3.1. The side view (right) shows a vertical pin with a top cap of width 3, a hole of diameter 1.6, a main body of width 3, and a bottom pin with a diameter of Ø1.4.			

Matching parts						
Front hinges for soldering	Front hinges for welding	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Screws
52-05067 52-04263	52-04063	33-05363 33-04067 33-02363 0°/6° inclination	33-04063	52-05363 52-05463 52-05563	51-05130 0°/6° inclination Matching rivets: see page 114	99-01814 99-02524 99-04814 99-02524.800 self aligning for break off

WAFER - 4.0 mm

- Round shaped nickel silver spring hinge on wire in low profile - nickel plated
- Elegant low construction
- Zero rocking & easy adjustment with flexUno two-barrel construction



patented

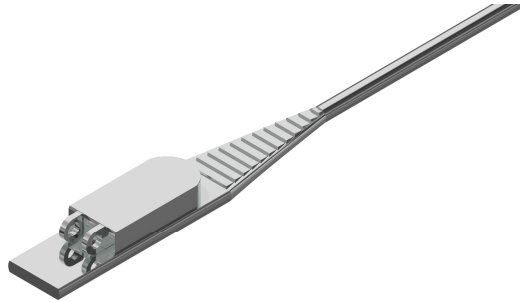
Catalogue 2026 | 2027 - Subject to change without prior notice - all measurements in mm

73-04066.70X	insertion	mechanism exchangeable	73-04066.30X	insertion	mechanism not exchangeable
Barreling cap for case 91-04066			Barreling cap for case 91-04066		

Matching parts				
Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Hinge screws
33-04066 33-04266 off center 0°/6° inclination	33-04166	52-04166	51-05066 Matching rivets: see page 114	99-01732 99-02036 99-02036.800 self aligning for break off

WAFER - 4.8 mm

- Round shaped nickel silver spring hinge on wire in low profile – nickel plated
- Elegant low construction
- Zero rocking & easy adjustment with flexUno two-barrel construction

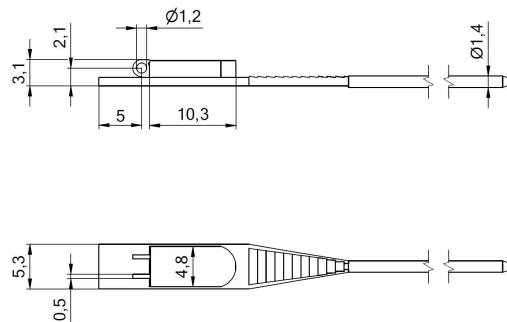


patented

73-04061.40X

insertion

mechanism not exchangeable



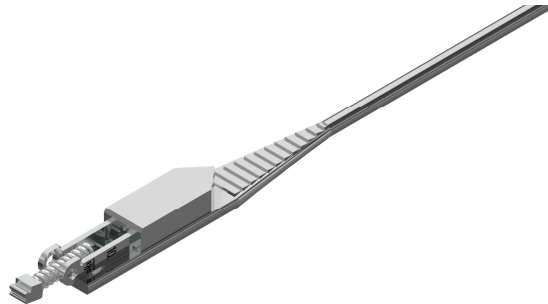
Barreling cap for case 91-05061

Matching parts

Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Hinge screws
33-04061 33-04071 round foot 33-04261 off center 0°/6° inclination	33-04161	52-04161	51-05061 Matching rivets: see page 114	99-02017 99-02017.800 self aligning for break off

SPIKE - 4.0 mm

- Pointed nickel silver spring hinge on wire in low profile - nickel plated
- Elegant low construction
- Zero rocking & easy adjustment with flexUno two-barrel construction

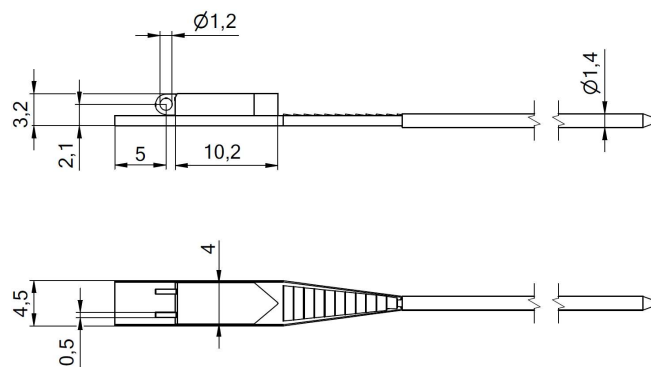


patented

73-04066.75X

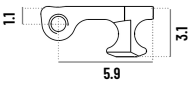
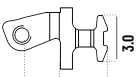
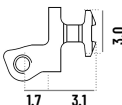
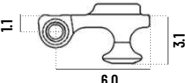
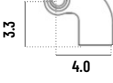
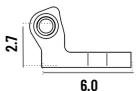
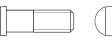
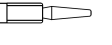
insertion

mechanism exchangeable



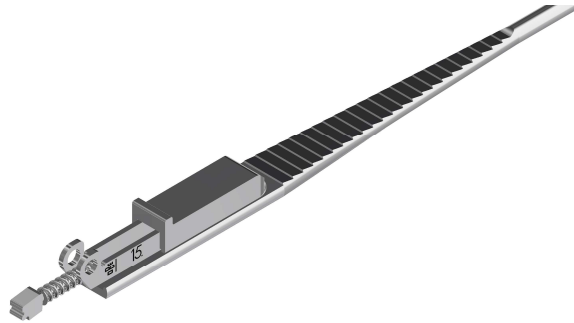
Barreling cap for case 91-04066

Matching parts

Spike front hinges	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Hinge screws
 	 			 	  
33-04166.050	33-04066 33-04266 off center 0°/6° inclination	33-04166	52-04166	51-05066 Matching rivets: see page 114	99-01732 99-02036 99-02036.800 self aligning for break off

CACHÉ - 3.0 mm

- Embedded nickel silver spring hinge on wire in low profile - nickel plated
- Super-flat design enables total integration in acetate temples without metal visibility
- Zero rocking & easy adjustment with flexUno two-barrel construction

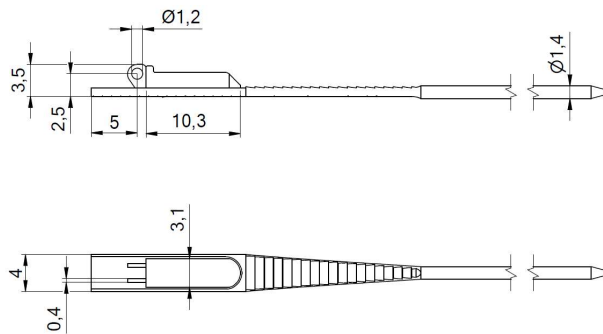


patented

73-07050

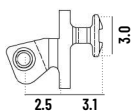
insertion

mechanism exchangeable



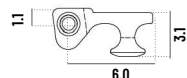
Matching parts

Front hinges
for plastic frames 90°



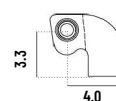
33-04027

Front hinges
for plastic frames 180°



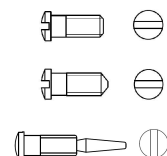
33-04028

Step hinges
for soldering



52-07050

Hinge screws



99-02030
99-02032 self aligning
99-02027.800
self aligning for break off

CACHEW - 2.5 mm

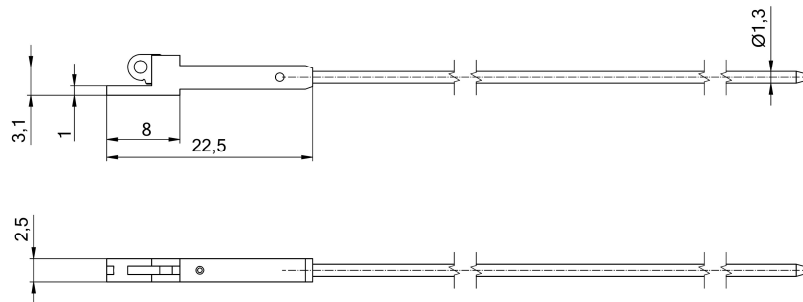
- Totally hidden spring hinge on wire for long temple tips - nickel plated
- Stable mechanism in stainless steel already pre-assembled
- Safe connection with OBE screw



60-08042.50X

insertion / fixing with screw

mechanism not exchangeable



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Matching parts

Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Front hinges	Hinge screws	Fixation to temple	Fixation to front
33-04041	33-05016	52-05128	33-02113	99-01811 99-02525	99-02027	99-01375

CUBEFLEX - 6.0 mm

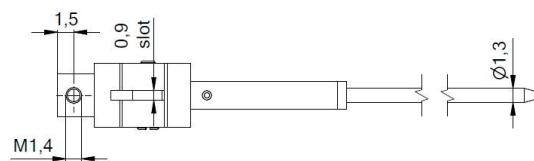
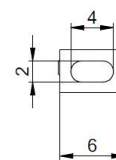
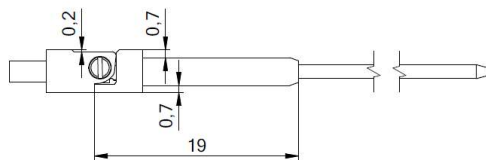
- Hidden spring hinge on wire for long temple tips - nickel plated
- Stable mechanism in stainless steel already pre-assembled
- Delivered assembled with endpiece



60-08050.69Z.XY

insertion / fixing with screw

mechanism not exchangeable





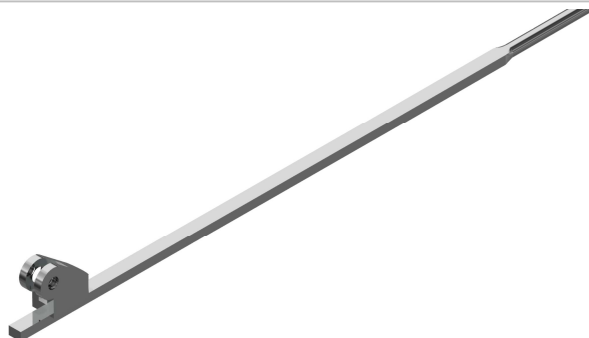
ACETATE & COMBINATION FRAMES

NON-FLEX HINGES FOR INSERTING / RIVETING

	PRODUCT	ARTICLE NO.	PAGE
HINGES ON WIRE 	PINOX	70-48716	24
	HOW 1	70-07621	25
	HOW 2	70-07759	26
	HOW 3	70-07761	27
	NEATY	70-07793	28
	FINNY	70-07765	29
	VELVET	70-07812	30
	DRAKE	70-07826	31
	RUG	70-07794	32
	XXL	70-01037	33
RIVET HINGES 	STANDARD RIVET HINGES	VARIOUS	34 – 38
	DIAMOND	51-05126.90X	39
	LIPED	51-05079.103	40
FRONT HINGES 	ISH ²	33-04214	41
	ISH	VARIOUS	42
	DESIGN 90°	33-04244 33-04243 33-04239	43

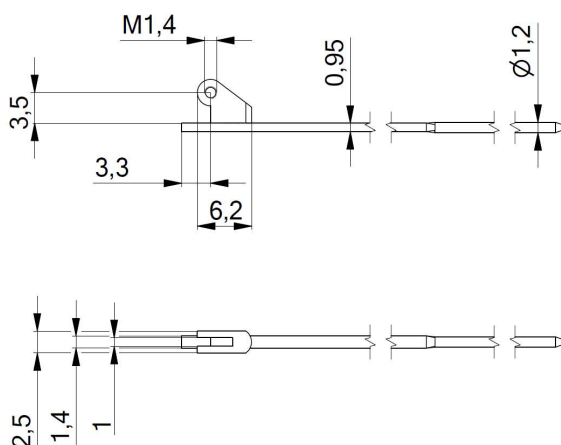
PINOX - 2.5 mm

- Super slim regular hinge on wire in stainless steel
- Minimum width with plastic 2.8 mm
- Smooth & safe movement with Space Screws

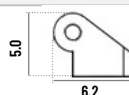


70-48716

insertion



Available separately



52-09080

Matching parts

Front hinges for soldering	Front hinges for welding	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Rivet hinges	Screws
51-04405	50-04448	33-04553 33-04559 0°/6° inclination	33-01870	51-05009 51-05007 0°/6° inclination Matching rivets: see page 114	99-05310.600 99-02310.600

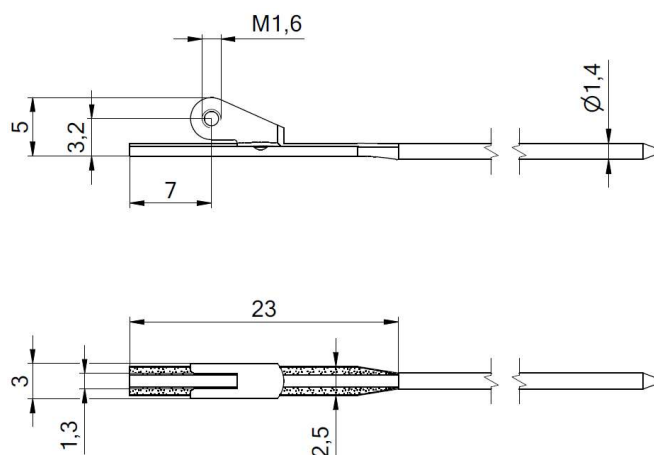
HOW 1 - 3.0 mm

- Made from nickel silver - nickel plated
- Minimum width with plastic 5.0 mm
- Smooth & safe movement with Space Screws or ISH technology

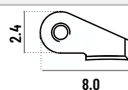


70-07621

insertion



Available separately



42-03984

Matching parts

Safety hinges for plastic frames 90°	Safety hinges for plastic frames 180°	Front hinges for plastic frames 90°	Step hinges for soldering	Rivet hinges	Screws
33-04215 33-04211 round foot	33-04538	33-04221	52-04255	51-05039 Matching rivets: see page 114	99-01723 for safety hinges 99-01458 for safety hinges 99-01523 for standard hinges

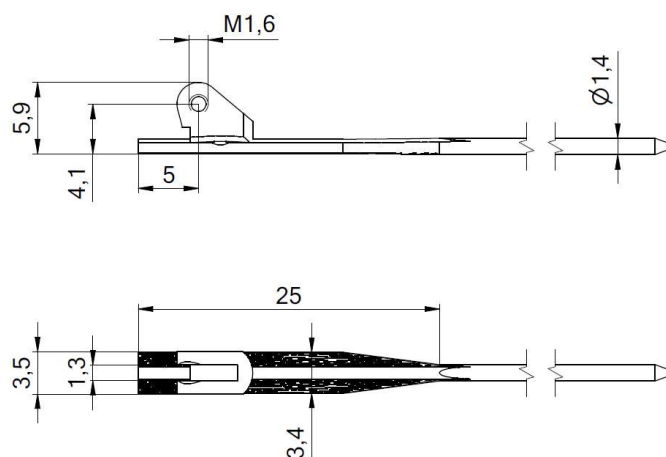
HOW 2 - 3.5 mm

- Made from nickel silver - nickel plated
- Minimum width with plastic 5.5 mm
- Smooth & safe movement with ISH technology

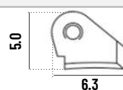


70-07759

insertion



Available separately



42-02459.000

Matching parts

Safety hinges for plastic frames 90°	Safety hinges for plastic frames 180°	Front hinges for plastic frames 90°	Step hinges for soldering	Rivet hinges	Screws
33-04215 33-04211 round foot	33-04538	33-04221	52-04255	51-05039 Matching rivets: see page 114	99-01357

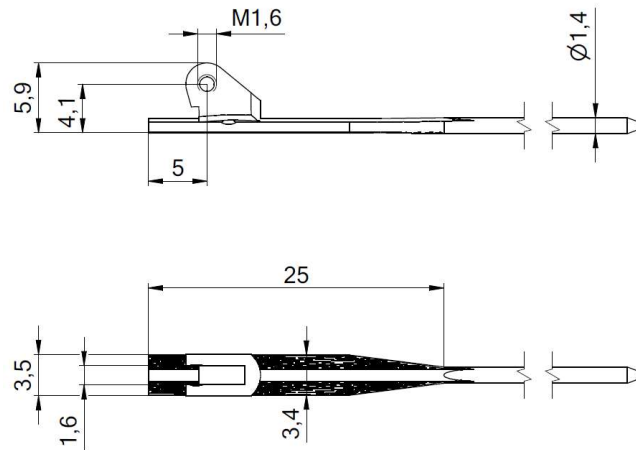
HOW 3 - 3.5 mm

- Made from nickel silver - nickel plated
- Minimum width with plastic 5.5 mm
- Smooth & safe movement with ISH technology



70-07761

insertion



Available separately



42-02459.160

Matching parts

Safety hinges for plastic frames 90°	Safety hinges for plastic frames 180°	Step hinge for soldering	Rivet hinges	Screws
32-02483 33-04271	33-04537 33-04540	52-04256	51-05038 Matching rivets: see page 114	99-01357

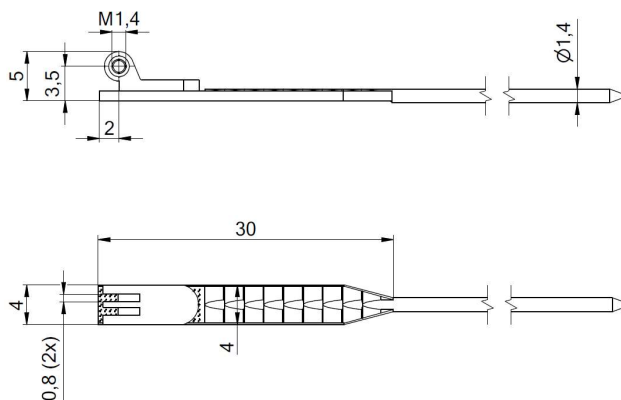
NEATY - 4.0 mm

- Robust 5-barrel construction made from nickel silver - nickel plated
- Wire hinge in rivet hinge style
- Minimum width with plastic 6.0 mm
- Smooth & safe movement with Space Screws

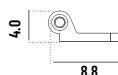


70-07793

insertion



Available separately



42-02029

Matching parts

Front hinges for soldering	Front hinges for plastic frames 90°	Rivet hinges	Rivet hinges	Screws
51-04421	33-04555 33-04566 33-04558 0°/6° inclination	51-05000.903.03 Matching rivets: see page 114	51-05024 0°/6° inclination Matching rivets: see page 114	99-05379.600 99-02379.600

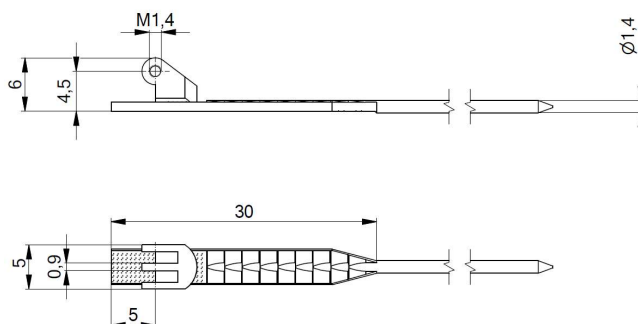
FINNY – 5.0 mm

- Robust 5-barrel construction made from nickel silver – nickel plated
- Minimum width with plastic 7.0 mm
- Smooth & safe movement with Space Screws or ISH technology

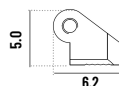


70-07765

insertion



Available separately



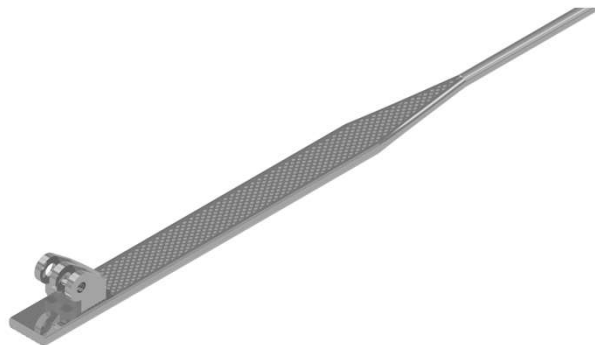
42-02465

Matching parts

Safety hinges for plastic frames 90°	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Rivet hinges	Screws
33-04214	33-04217 33-04232 33-04332 33-04239	33-04234	51-05028 51-05094 Matching rivets: see page 114	99-05334.600 99-02334.600 99-47140 (for 33-04214) 99-44175 (for 33-04214)

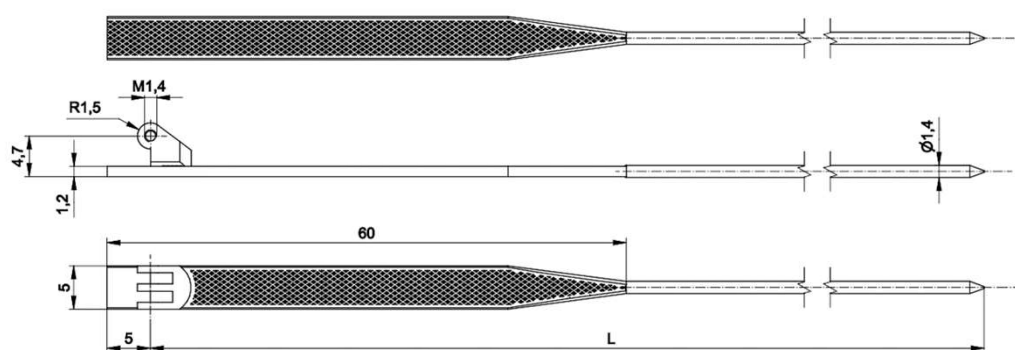
VELVET - 5.0 mm

- Design hinge on wire with pearl pattern on both sides
- Robust 5-barrel construction made from nickel silver - nickel plated
- Minimum width with plastic 7.0 mm
- Smooth & safe movement with Space Screws or ISH technology

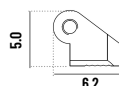


70-07812

insertion



Available separately



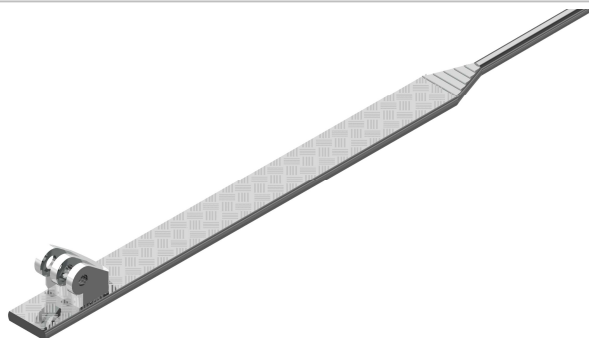
42-02465

Matching parts

Safety hinges for plastic frames 90°	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Rivet hinges	Screws
33-04214	33-04217 33-04232 33-04332 33-04239	33-04234	51-05028 51-05094 Matching rivets: see page 114	99-05334.600 99-02334.600 99-47140 (for 33-04214) 99-44175 (for 33-04214)

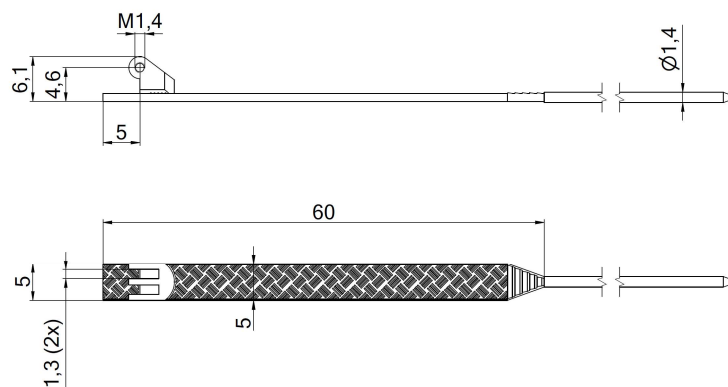
RUG - 5.0 mm

- Design hinge on wire with textile design
- Robust 5-barrel construction made from nickel silver - nickel plated
- Minimum width with plastic 7.0 mm
- Perfect articulation with Space Screws or ISH technology

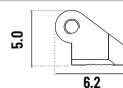


70-07794

insertion



Available separately



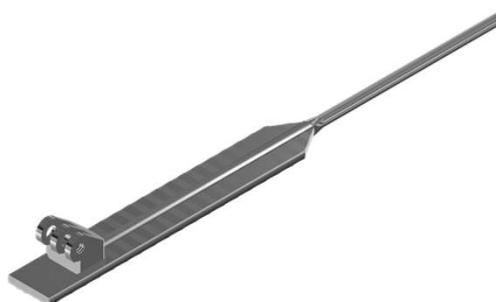
42-02465

Matching parts

Safety hinges for plastic frames 90°	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Rivet hinges	Screws
33-04214	33-04217 33-04232 33-04332 33-04239	33-04234	51-05028 51-05094 Matching rivets: see page 114	99-05334.600 99-02334.600 99-47140 (for 33-04214) 99-44175 (for 33-04214)

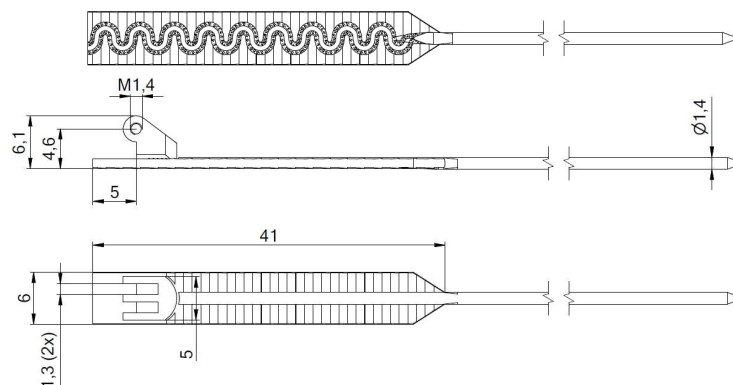
DRAKE - 6.0 mm

- Design hinge on wire with wave design
- Robust 5-barrel construction made from nickel silver - nickel plated
- Minimum width with plastic 7.0 mm
- Smooth & safe movement with Space Screws or ISH technology

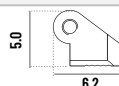


70-07826

insertion



Available separately



42-02465

Matching parts

Safety hinges for plastic frames 90°	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Rivet hinges	Screws
33-04214	33-04217 33-04232 33-04332 33-04239	33-04234	51-05028 51-05094 Matching rivets: see page 114	99-05334.600 99-02334.600 99-47140 (for 33-04214) 99-44175 (for 33-04214)

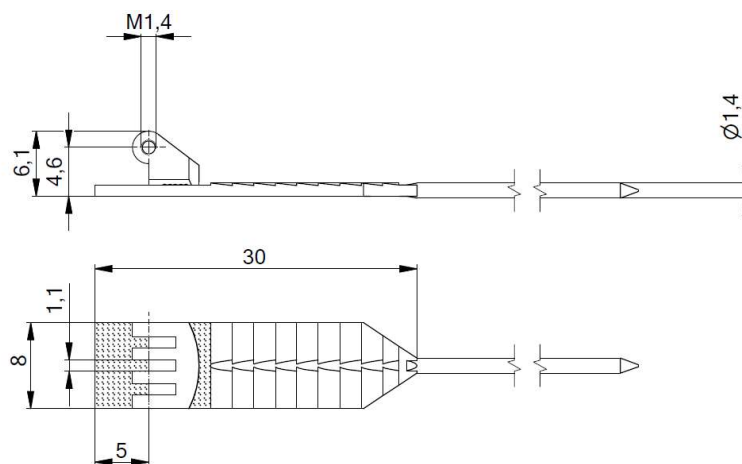
XXL - 8.0 mm

- Extra wide regular hinge on wire in nickel silver - nickel plated
- 7-barrel-construction
- Minimum width with plastic 10.0 mm
- Smooth & safe movement with Space Screws

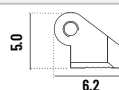


70-01037

insertion



Available separately



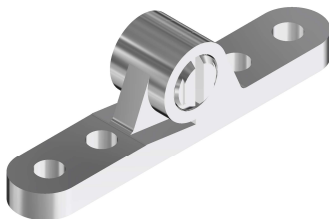
42-01036

Matching parts

Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Rivet hinges	Screws
33-04233 33-04272 0°/6° inclination	33-05147	51-05083 0°/6° inclination Matching rivets: see page 114	99-05380.600 99-02380.600

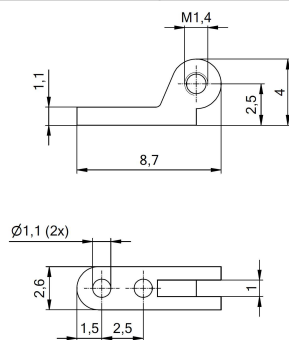
STANDARD RIVET HINGES - 2.6 mm

- Made from nickel silver - nickel plated
- 3-barrel construction
- Smooth & safe movement with Space Screws



51-05009.903.01/02

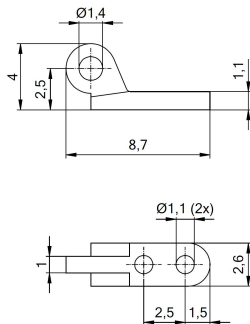
riveting



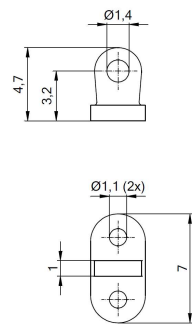
51-05009.903.03

51-05007

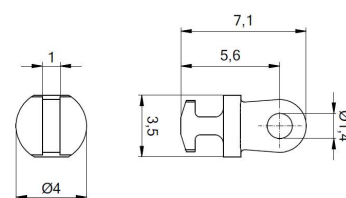
33-04553



0°/6° inclination



0°/6° inclination

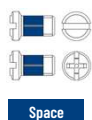


0°/6° inclination

Matching parts

Screws

Rivets



99-05310.600

99-02310.600



11-20261 - 10.0 mm
11-20247 - 8.0 mm
11-20318 - 5.8 mm
11-20251 - 5.4 mm
11-20245 - 4.2 mm
11-20246 - 3.0 mm
11-20260 - double rivet

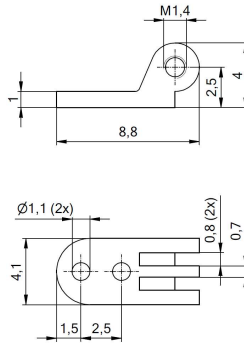
STANDARD RIVET HINGES - 4.1 mm

- Made from nickel silver - nickel plated
- 5-barrel construction
- Smooth & safe movement with Space Screws



51-05000.903.01/02

riveting



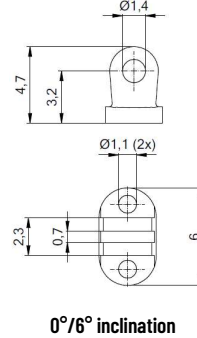
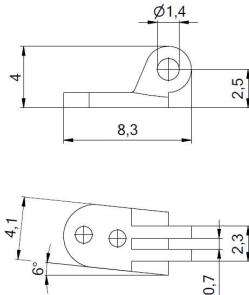
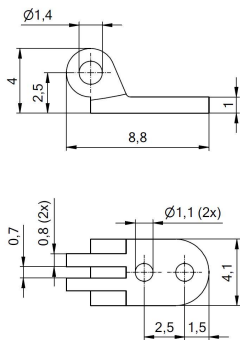
0°/6° inclination

51-05000.903.03 - 0° inclination
51-05068.963.03/04 - 6° inclination

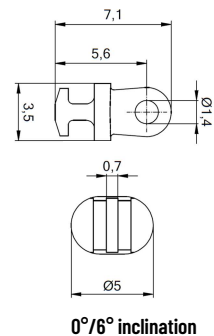
51-05081.963 - 6° inclination

51-05024

33-04555



0°/6° inclination

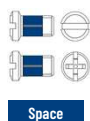


0°/6° inclination

Matching parts

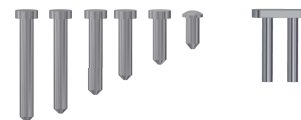
Screws

Rivets



99-05379.600

99-02379.600



11-20261 - 10.0 mm
11-20247 - 8.0 mm
11-20318 - 5.8 mm
11-20251 - 5.4 mm
11-20245 - 4.2 mm
11-20246 - 3.0 mm
11-20260 - double rivet

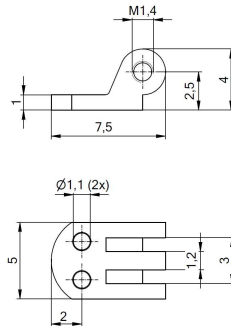
STANDARD RIVET HINGES - 5.0 mm

- Made from nickel silver - nickel plated
- 5-barrel construction
- Smooth & safe movement with Space Screws



51-05011.903.01/02

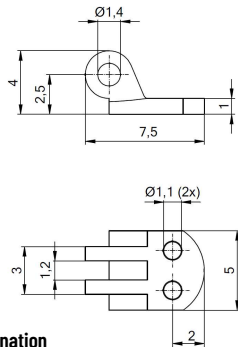
riveting



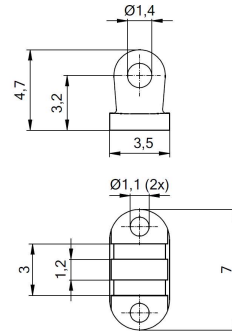
51-05011.903.03

51-05019

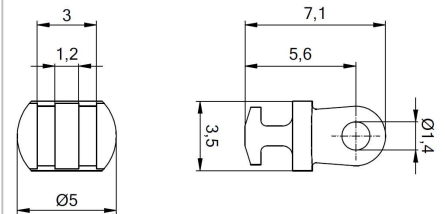
33-04554



0°/6° inclination



0°/6° inclination



0°/6° inclination

Matching parts

Screws

Rivets



Space



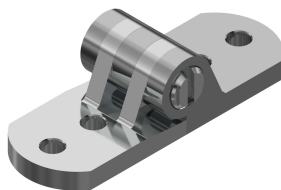
99-05334.600

99-02334.600

11-20261 - 10.0 mm
11-20247 - 8.0 mm
11-20318 - 5.8 mm
11-20251 - 5.4 mm
11-20245 - 4.2 mm
11-20246 - 3.0 mm
11-20260 - double rivet

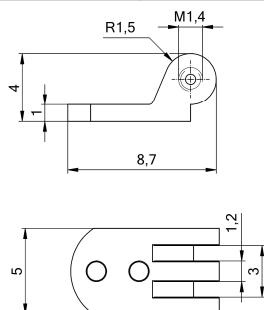
STANDARD RIVET HINGES - 5.0 mm

- Made from nickel silver - nickel plated
- 5-barrel construction
- Smooth & safe movement with Space Screws



51-09030.903.01/02

riveting



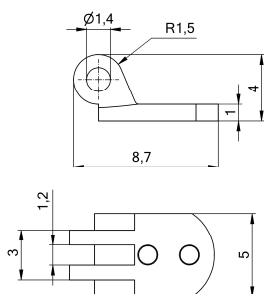
0°/6° inclination

51-09030.903.03

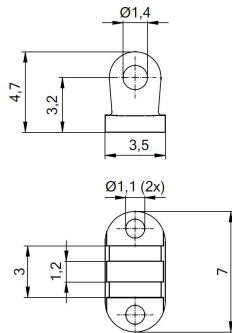
51-05019

33-04554

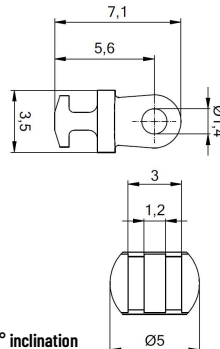
33-04561



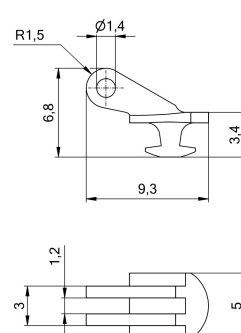
0°/6° inclination



0°/6° inclination



0°/6° inclination



Matching parts

Screws

Rivets



Space



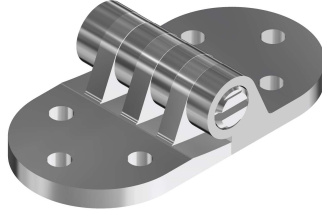
99-05334.600

99-02334.600

11-20261 - 10.0 mm
11-20247 - 8.0 mm
11-20318 - 5.8 mm
11-20251 - 5.4 mm
11-20245 - 4.2 mm
11-20246 - 3.0 mm
11-20260 - double rivet

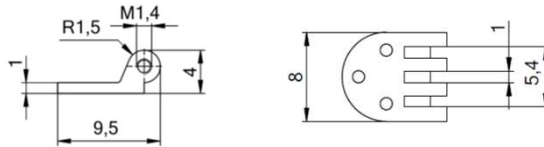
STANDARD RIVET HINGES – 8.0 mm

- Made from nickel silver – nickel plated
- 7-barrel construction
- Smooth & safe movement with Space Screws



51-05082

riveting

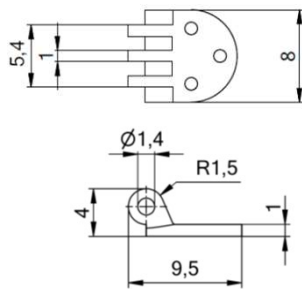


0°/6° inclination

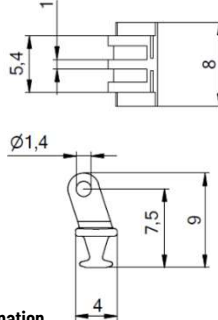
51-05083

33-04233

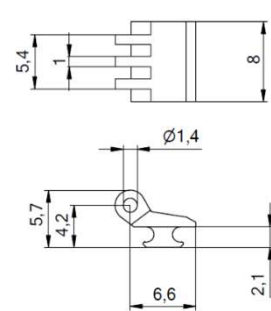
33-05147



0°/6° inclination



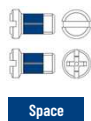
0°/6° inclination



Matching parts

Screws

Rivets



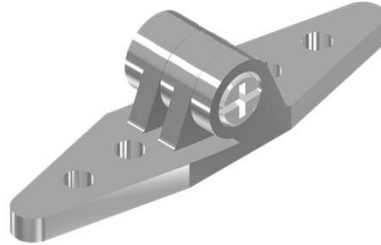
99-05380.600

99-02380.600

11-20261 – 10.0 mm
11-20247 – 8.0 mm
11-20318 – 5.8 mm
11-20251 – 5.4 mm
11-20245 – 4.2 mm
11-20246 – 3.0 mm

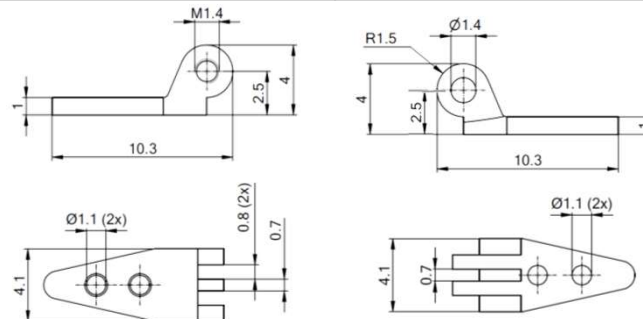
DIAMOND - 5.0 mm

- Diamond shaped riveting hinge
- Made from nickel silver - nickel plated
- 5-barrel construction
- Smooth & safe movement with Space Screws



51-05126.90X.01/02/03

riveting



0°/6° inclination

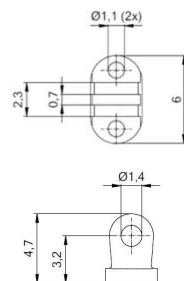
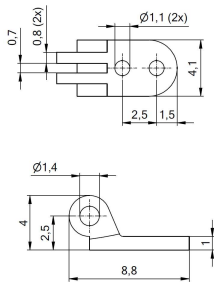
51-05000

51-05024

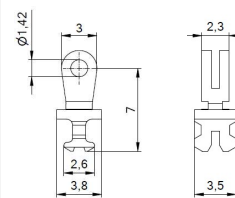
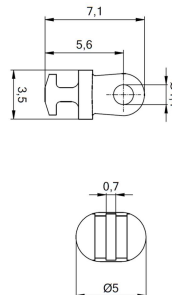
33-04555

33-04566

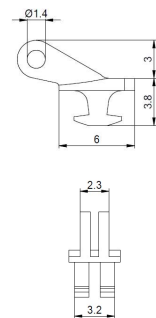
33-05113



0°/6° inclination



0°/6° inclination



Matching parts

Screws

Rivets



Space



99-05379.600

99-02379.600

99-04327.600

11-20261 - 10.0 mm

11-20247 - 8.0 mm

11-20318 - 5.8 mm

11-20251 - 5.4 mm

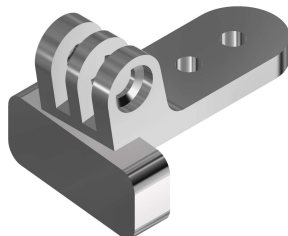
11-20245 - 4.2 mm

11-20246 - 3.0 mm

11-20260 - double rivet

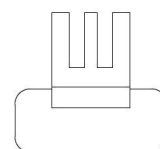
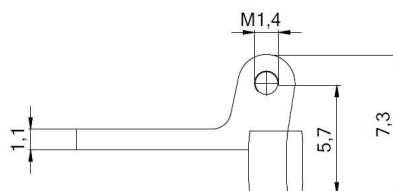
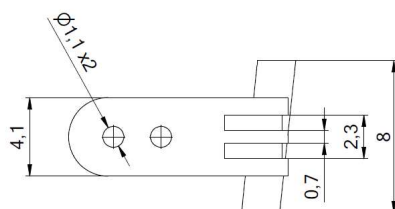
LIPED - 4.1 mm

- Design rivet temple hinge
- Made from nickel silver - nickel plated
- 5-barrel construction
- Smooth & safe movement with Space Screws



51-05079.103

riveting



0°/6° inclination

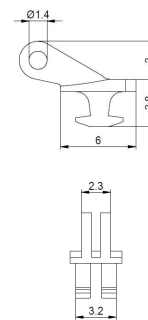
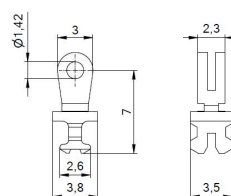
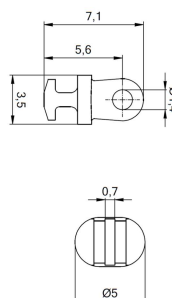
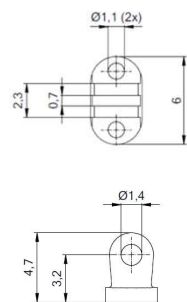
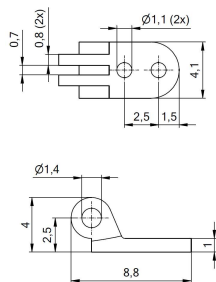
51-05000

51-05024

33-04555

33-04566

33-05113



Matching parts

Screws

Rivets



Space



99-05379.600

99-02379.600

99-04327.600

11-20261 - 10.0 mm
11-20247 - 8.0 mm
11-20318 - 5.8 mm
11-20251 - 5.4 mm
11-20245 - 4.2 mm
11-20246 - 3.0 mm
11-20260 - double rivet

ISH²

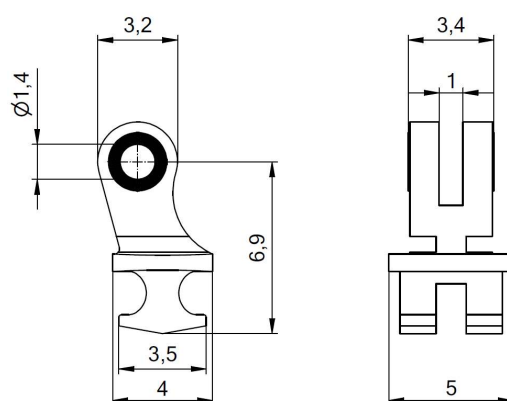
- 2-barrel plastic injected front hinge
- Mde from nickel silver - nickel plated
- Provides consistent & smooth temple movement



patent pending

33-04214

insertion

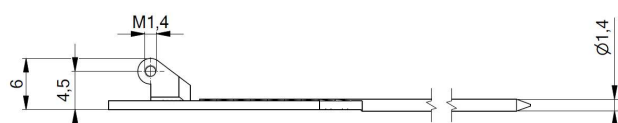


0°/6° inclination

Matching parts

Hinges on wire

Screws



70-07765
70-07794
70-07812
70-07826

99-47140
99-44175

ISH - INJECTION SAFETY HINGES

- 1-barrel plastic injected front hinge
- Made from nickel silver - nickel plated
- Provides consistent & smooth temple movement

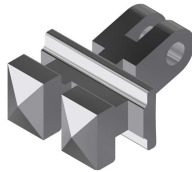


90°	insertion	180°	insertion

Front hinges 90° - 0°/6° inclination						Front hinges 180° - 0°/6° inclination					
Art. No.	A	B	C	D	E	Art. No.	A	B	C	D	E
33-04215	1.3	2.8	6.5	4.0	3.0	33-04538	1.3	3.5	4.9	8.8	4.2
33-04211	1.3	4.5	6.5	4.0	3.0	33-04537	1.6	4.5	4.9	8.8	4.2
33-04271	1.6	4.5	6.5	4.0	3.0						
32-02483	1.6	7.0	6.7	4.0	3.0						

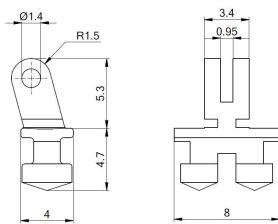
DESIGN 90°

- Customised design 90° front hinge
- Made in nickel silver - nickel plated
- Optionally with injected plastic

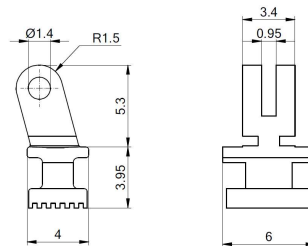


Insertion

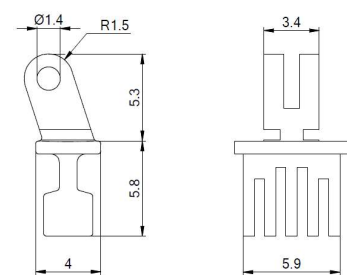
33-04244



33-04243

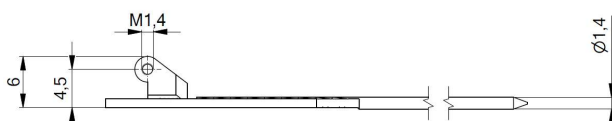


33-04239



Matching parts

Hinges on wire



70-07765
70-07794
70-07812
70-07826

Screws



99-05334.600
99-02334.600



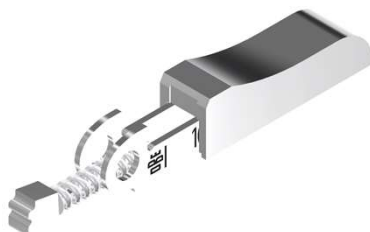
METAL & COMBINATION FRAMES

FLEX HINGES FOR SOLDERING & LASER WELDING

	PRODUCT	ARTICLE NO.	PAGE
CLASSIC TWO-BARREL FLEX 	FLEXUNO NICKEL SILVER	60-04062.XXX 60-04063.XXX 60-04064.XXX	46 47 48
	FLEXUNO STAINLESS STEEL	60-44062 60-44063	49 50
CLASSIC ONE-BARREL FLEX 	LITELINE	60-08080 60-08084 60-08088	51 52 53
DESIGN TWO-BARREL FLEX 	MINI	60-44031.XXX	54
	WAFERPLUS	60-05043	55
	WAFER	60-04066 60-04061	56 57
	SPIKE	60-04066.050	58

FLEXUNO NICKEL SILVER - 2.7 mm

- Elegant & short nickel silver spring hinge
- Stable U-shaped click-in mechanism in stainless steel
- Zero rocking & easy adjustment with flexUno two-barrel construction

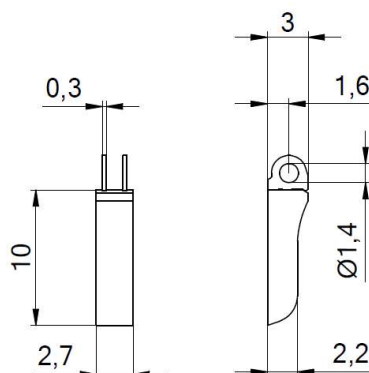


patented

60-04062.XXX

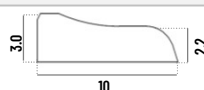
soldering

mechanism exchangeable



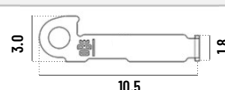
Barreling cap for case 91-20219

Case



17-04062

Side hinge



44-44062

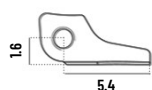
Spring mechanism



60-04063.030

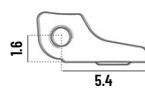
Matching parts

Front hinges
for soldering



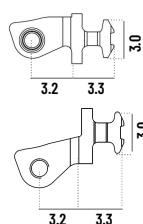
52-05069

Front hinges
for welding



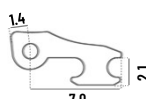
52-04062

Front hinges
for plastic frames 90°



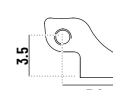
33-05062
33-04262 off center
0°/6° inclination

Front hinges
for plastic frames 180°



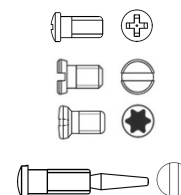
33-04062

Step hinges
for soldering



52-05462

Screws



99-01730
99-02016
99-04724
99-02016.800
self aligning for break off

FLEXUNO NICKEL SILVER - 3.0 mm

- Elegant & short nickel silver spring hinge
- Stable U-shaped click-in mechanism in stainless steel
- Zero rocking & easy adjustment with flexUno two-barrel construction

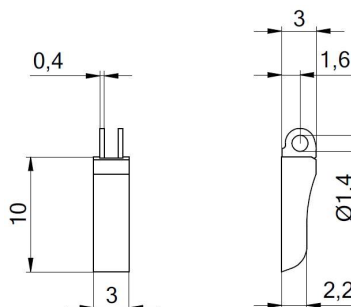


patented

60-04063.XXX

soldering

mechanism exchangeable

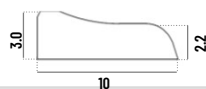


Barreling cap for case 91-20217

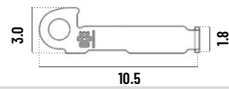
Case

Side hinge

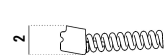
Spring mechanism



17-04063



44-44063



60-04063.030

Matching parts

Front hinges for soldering	Front hinges for welding	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Screws
52-05067 52-04263	52-04063	33-05363 33-04163 off center 33-04067 33-02363 0°/6° inclination	33-04063	52-05363 52-05463 52-05563	51-05130 0°/6° inclination Matching rivets: see page T14	99-01814 99-02524 99-04814 99-02524.800 self aligning for break off

FLEXUNO NICKEL SILVER - 4.3 mm

- Elegant & short nickel silver spring hinge
- Stable U-shaped click-in mechanism in stainless steel
- Zero rocking & easy adjustment with flexUno two-barrel construction

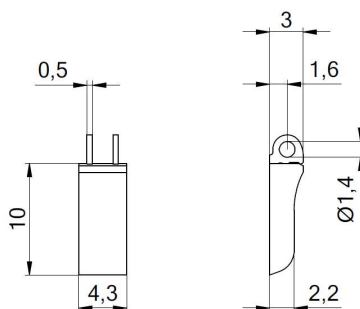


patented

60-04064.XXX

soldering

mechanism exchangeable



Barreling cap for case 91-20212

Case	Side hinge	Spring mechanism
17-04064	44-44064	60-04064.050

Matching parts

Front hinges for soldering	Front hinges for welding	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Screws
52-05064 52-04264	52-04064	33-05164 33-04164 off center 33-02364 0°/6° inclination	33-04064	52-05164 52-05264	51-05129 0°/6° inclination Matching rivets: see page 114	99-01816 99-02503 99-04816 99-02503.800 self aligning for break off 99-02591 self aligning

FLEXUNO STAINLESS STEEL- 2.7 mm

- 100% stainless steel spring hinge - zero corrosion
- Stable U-shaped mechanism already pre-assembled
- Zero rocking & easy adjustment with flexUno two-barrel construction
- All matching parts made from stainless steel

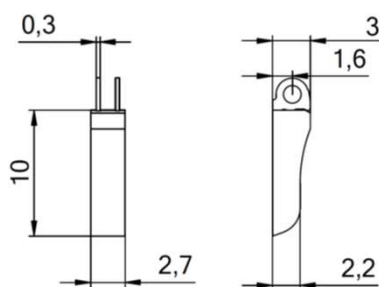


patented

60-44062

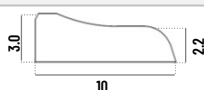
soldering or laser welding

mechanism exchangeable



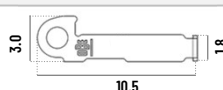
Barreling cap for case 91-20219

Case



17-44062

Side hinge



44-44062

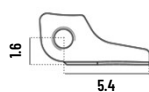
Spring mechanism



60-04063.030

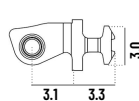
Stainless steel matching parts

Front hinges
for soldering



52-45062

Front hinges
for plastic frames 90°



33-44162

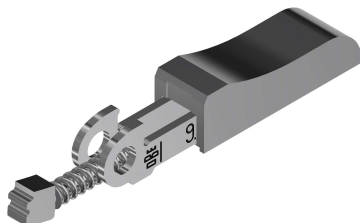
Screws



99-01730
99-02016
99-04724

FLEXUNO STAINLESS STEEL- 3.0 mm

- 100% stainless steel spring hinge - zero corrosion
- Stable U-shaped mechanism already pre-assembled
- Zero rocking & easy adjustment with flexUno two-barrel construction
- All matching parts made from stainless steel

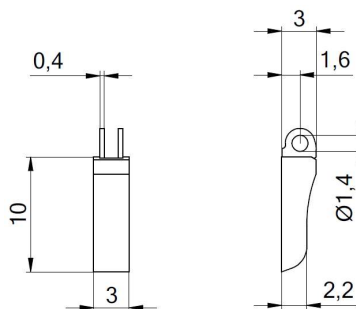


patented

60-44063

soldering or laser welding

mechanism exchangeable

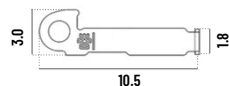
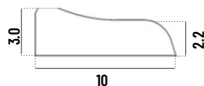


Barreling cap for case 91-20217

Case

Side hinge

Spring mechanism



17-44063

44-44063

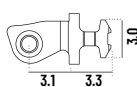
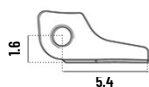
60-04063.030

Stainless steel matching parts

Front hinges
for soldering

Front hinges
for plastic frames 90°

Screws



52-45063

33-44163

99-01814
99-02524
99-04814

LITELINE - 2.0 mm

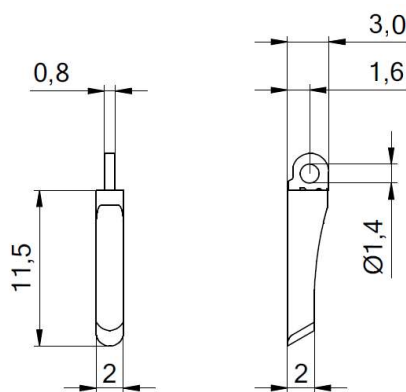
- Nickel silver spring hinge with closed bottom
- Easy click-in mechanism in stainless steel



60-08080

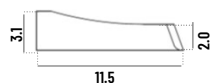
soldering

mechanism not exchangeable



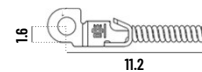
Barreling cap for case 91-20222

Case



17-08080

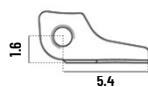
Spring mechanism



60-45001.220

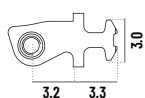
Matching parts

Front hinges
for soldering



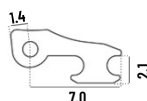
52-05075

Front hinges
for plastic frames 90°



33-05105

Front hinges
for plastic frames 180°



33-05010

Step hinges
for soldering



52-05112

Screws



99-01803

99-02530

99-04803

LITELINE - 2.4 mm

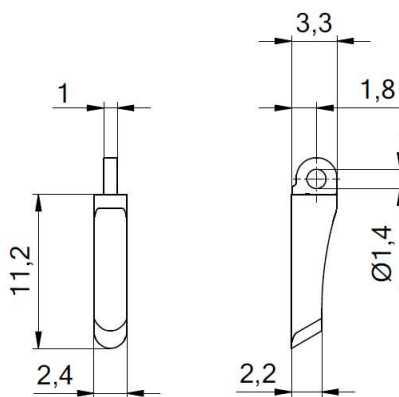
- Nickel silver spring hinge with closed bottom
- Easy click-in mechanism in stainless steel



60-08084

soldering

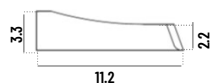
mechanism not exchangeable



Barreling cap for case 91-20201

Case

Spring mechanism



17-08084

60-45002.130

Matching parts

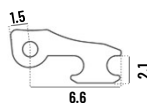
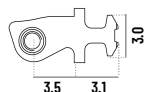
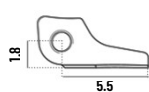
Front hinges
for soldering

Front hinges
for plastic frames 90°

Front hinges
for plastic frames 180°

Step hinges
for soldering

Screws



52-05097

33-05104

33-05012

52-05111

99-01811

99-02525

99-04811

LITELINE - 2.8 mm

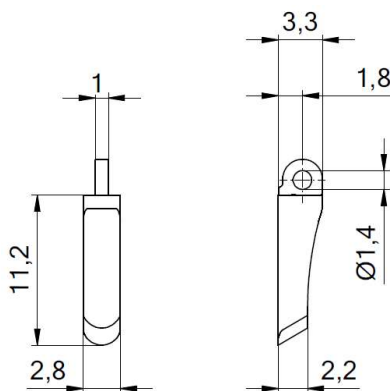
- Nickel silver spring hinge with closed bottom
- Easy click-in mechanism in stainless steel



60-08088

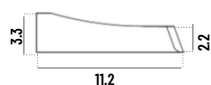
soldering

mechanism not exchangeable



Barreling cap for case 91-20221

Case



17-08088

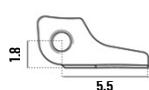
Spring mechanism



60-45002.130

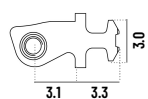
Matching parts

Front hinges
for soldering



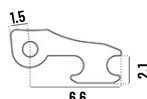
52-05194

Front hinges
for plastic frames 90°



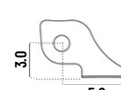
33-05106

Front hinges
for plastic frames 180°



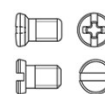
33-05063

Step hinges
for soldering



52-05153

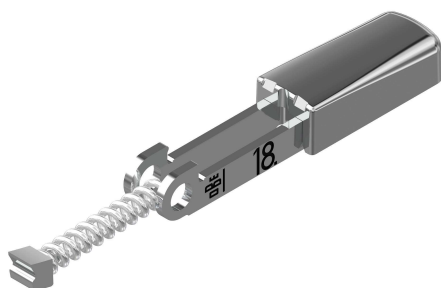
Screws



99-01813
99-02501

MINI - 3.3 mm

- 100% stainless steel spring hinge with short case - zero corrosion
- Elegant low construction
- Zero rocking & easy adjustment with flexUno two-barrel construction



patented

60-44031.XXX	soldering or laser welding	mechanism exchangeable	60-44031.200	only laser welding	mechanism not exchangeable
Case	Side hinge	Spring mechanism			
17-44031	44-44031	60-04031			

Matching parts						
Front hinges for soldering	Front hinges for laser welding	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Screws
52-04131 nickel silver 52-44131 stainless steel	52-45031 stainless steel	33-04031 nickel silver 33-44031 stainless steel	33-04131 nickel silver	52-04231 nickel silver	51-04031 Matching rivets: see page 114	99-01764 99-02030 stainless steel

WAFERPLUS 3.0

- Round shaped nickel silver spring hinge
- High performance - equipped with extra strong spring
- Zero rocking & easy adjustment with flexUno two-barrel construction

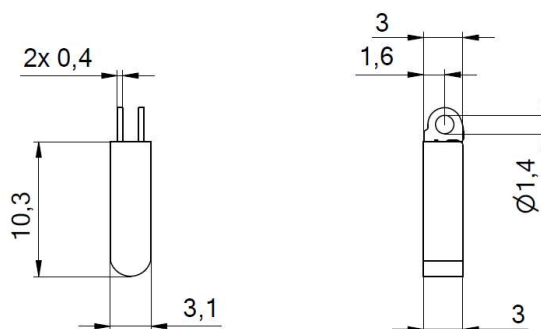


patented

60-05043

soldering

mechanism exchangeable

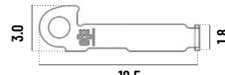
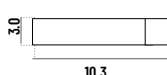


Barreling cap for case 91-20217

Case

Side hinge

Spring mechanism



17-05043

44-44063

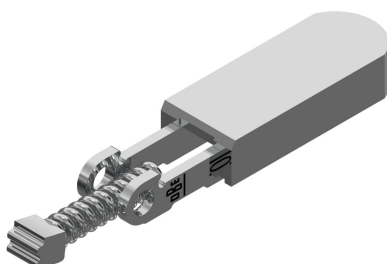
60-04063.030

Matching parts

Front hinges for soldering	Front hinges for welding	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Screws
52-05067 52-04263	52-04063	33-05363 33-04067 33-02363 0°/6° inclination	33-04063	52-05363 52-05463 52-05563	51-05130 0°/6° inclination Matching rivets: see page 114	99-01814 99-02524 99-04814 99-02524.800 self aligning for break off

WAFER - 4.0 mm

- Round shaped nickel silver spring hinge in low profile
- Easy & stable U-shaped click-in mechanism in stainless steel
- Zero rocking & easy adjustment with flexUno two-barrel construction

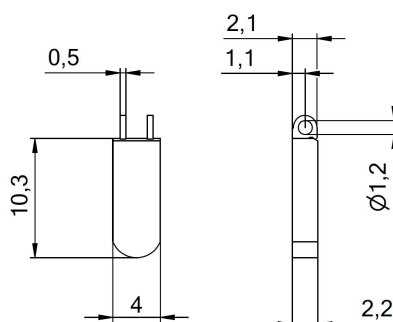


patented

60-04066

soldering

mechanism exchangeable

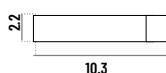


Barreling cap for case 91-04066

Case

Side hinge

Spring mechanism



17-04066

44-44061

60-04061.060

Matching parts

Front hinges
for soldering

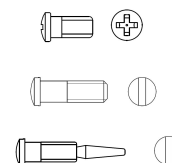
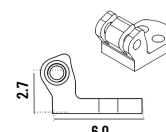
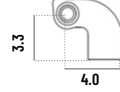
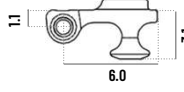
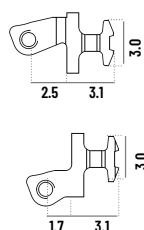
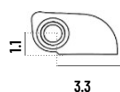
Front hinges
for plastic frames 90°

Front hinges
for plastic frames 180°

Step hinges
for soldering

Rivet hinges

Hinge screws



52-04276

33-04066
33-04266 off center

0°/6° inclination

33-04166

52-04166

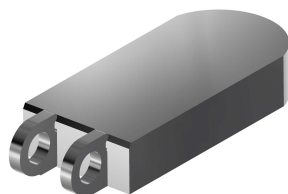
51-05066

Matching rivets:
see page 114

99-01732
99-02036
99-02036.800
self aligning for break off

WAFER - 4.8 mm

- Round shaped nickel silver spring hinge in low profile
- Easy & stable U-shaped mechanism in stainless steel already pre-assembled
- Zero rocking & easy adjustment with flexUno two-barrel construction

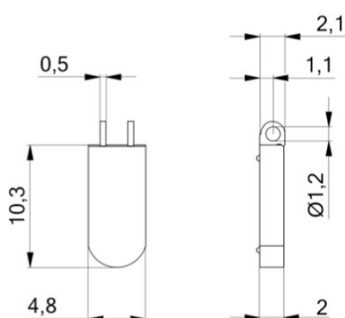


patented

60-04061.200

resistance welding

mechanism not exchangeable



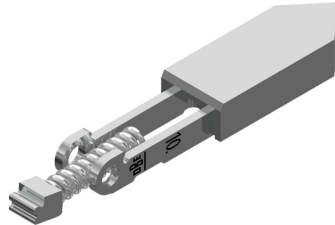
Barreling cap for case 91-05061

Matching parts

Front hinges for soldering	Front hinges for welding	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Hinge screws
52-04261	52-04061	33-04061 33-04071 round foot 33-04261 off center 0°/6° inclination	33-04161	52-04161	51-05061 Matching rivets: see page 114	99-02017 99-02017.800 self aligning for break off

SPIKE - 4.0 mm

- Pointed nickel silver spring hinge in low profile
- Easy & stable U-shaped click-in mechanism in stainless steel
- Zero rocking & easy adjustment with flexUno two-barrel construction

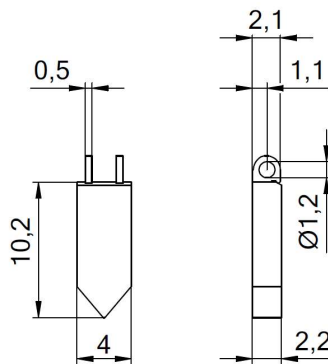


patented

60-04066.050

soldering

mechanism exchangeable

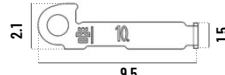
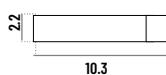


Barreling cap for case 91-04066

Case

Side hinge

Spring mechanism



17-04066.050

44-44061

60-04061.060

Matching parts

Spike front hinges	Front hinges for soldering	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Hinge screws
33-04166.050	52-04276	33-04066 33-04266 off center 0°/6° inclination	33-04166	52-04166	51-05066 Matching rivets: see page 114	99-01732 99-02036 99-02036.800 self aligning for break off

METAL & COMBINATION FRAMES

FLEX MECHANISMS AND MONOBLOC FLEX TEMPLES

	PRODUCT	ARTICLE NO.	PAGE
ONE-BARREL MECHANISMS 	FLEXINO SOLO	60-44015.100 60-46500.120 60-44022.200 60-44022.500 60-04055.200	60 61 62 62 63
TWO-BARREL MECHANISMS 	FLEXUNO INTEGRATED	60-44063.200 60-44063.205 60-44063.855	64
MONOBLOC FLEX TEMPLES 	BELLISSIMO	60-07058	65
	BELLO	60-07053	66
	BELLA	60-17051	67
	SKINNY	60-07042	68
	STEALTH	60-07043	69
	DUNE	60-07056	70
NON-FLEX HINGES			
	SPACE HINGES	VARIOUS	71
	INOX HINGES	VARIOUS	72

FLEXINO SOLO - 0.6 mm

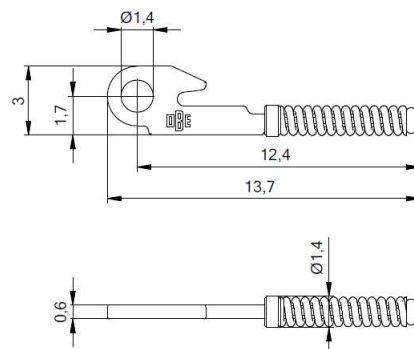
- One-barrel spring mechanism in stainless steel
- Double action flex movement
- Recommended temple width 1.9 - 2.6 mm



patented

60-44015.100

fixation by peening



FLEXINO SOLO - 0.8 mm

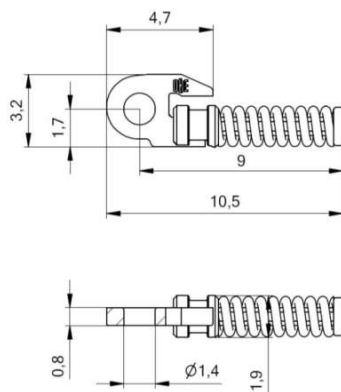
- ONE-BARREL spring mechanism in stainless steel
- Double action flex movement
- Recommended width 2.6 - 3.4 mm



patented

60-46500.120

fixation by peening or screw-in



FLEXINO SOLO - 0.9 mm

- One-barrel spring mechanism in stainless steel
- Recommended temple width 2.1 - 3.5 mm



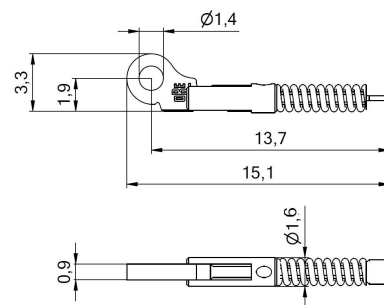
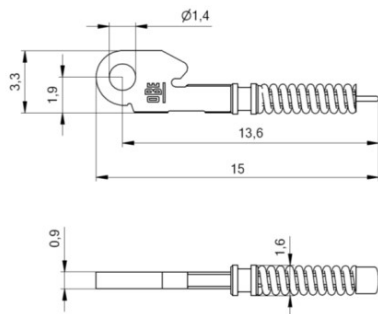
patented

60-44022.200
double action

fixation by peening

60-44022.500
single action

fixation by peening



FLEXINO SOLO – 1.3 mm

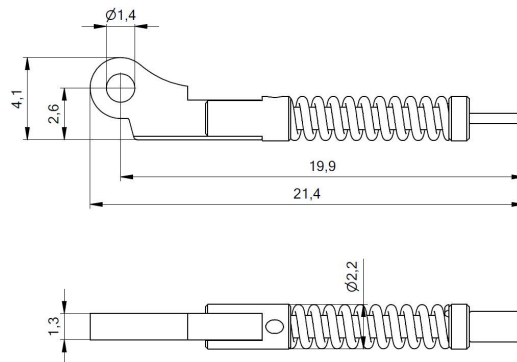
- ONE-BARREL spring mechanism in nickel silver – nickel plated
- Single action flex movement
- Recommended temple width 2.8 – 6.0 mm



patented

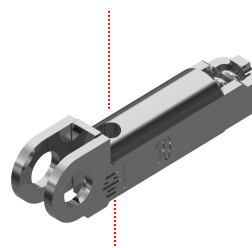
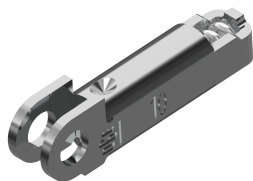
60-04055.200

fixation by peening

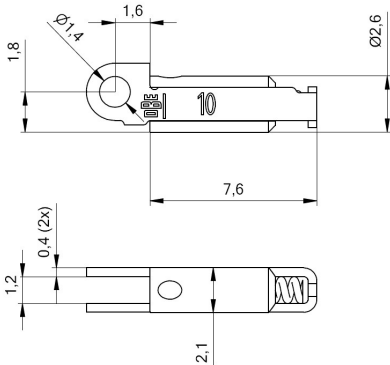
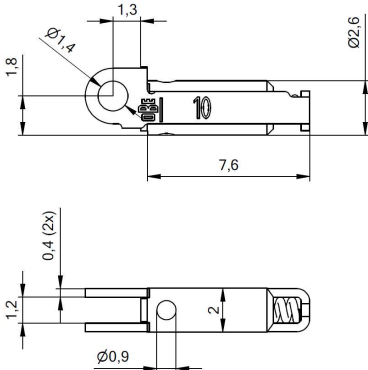


FLEXUNO INTEGRATED - 2x0.4 mm

- Two-barrel spring mechanism in stainless steel
- Recommended temple width 3.2 - 8.0 mm
- Zero rocking & easy adjustment with flexUno technology



patented

60-44063.200	fixation by peening	standard spring	60-44063.855	fixation with pin or screw-in	strong spring
60-44063.205		strong spring			
					

Matching parts

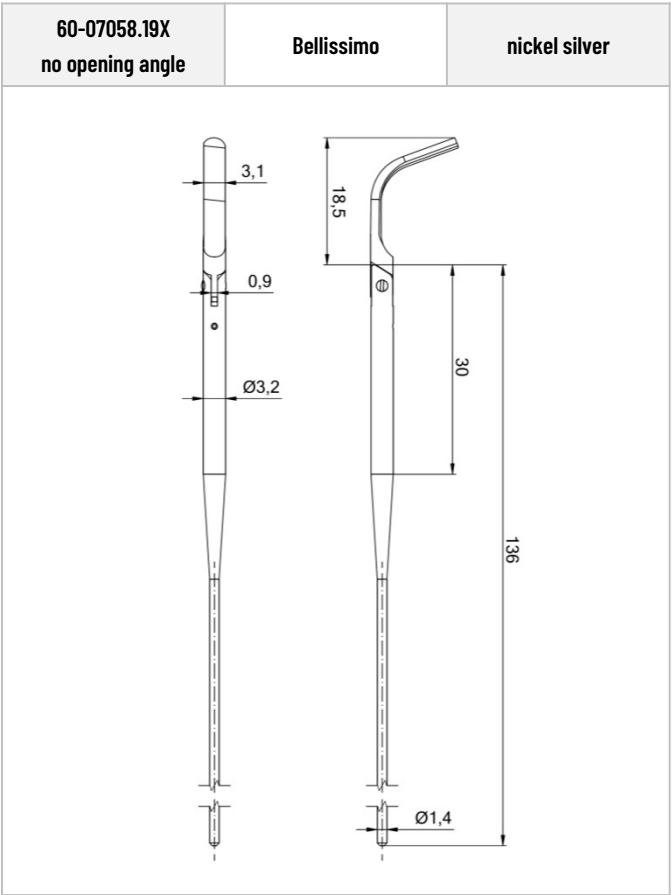
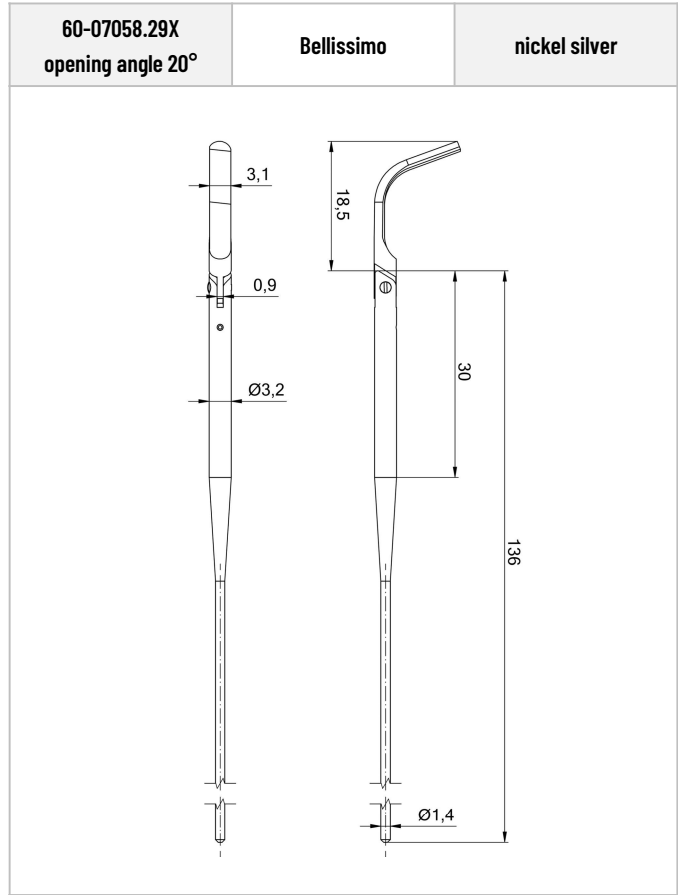
Front hinges for soldering	Front hinges for welding	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Screws
52-05067	52-04063	33-05363 33-04163 33-04067 off center 0°/6° inclination	33-04063	52-05363 52-05463	99-01814 99-02524 99-04814

BELLISSIMO - 3.2 mm



Delivered assembled with endpiece

patented



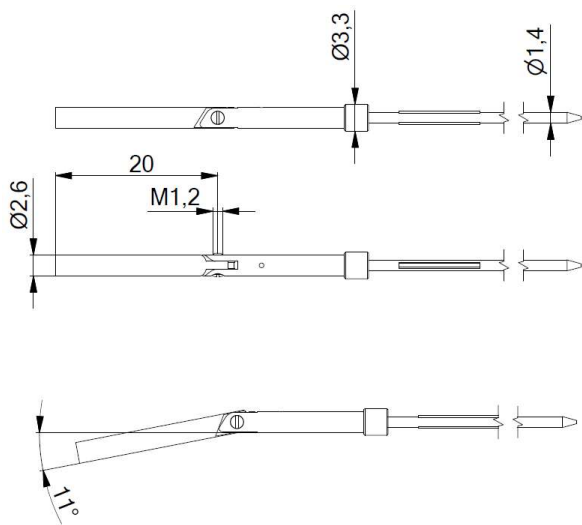
BELLO - 3.3 mm



Delivered assembled with endpiece

patented

60-07053	Bello	nickel silver
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Ring optionally available: 11-20104



(not assembled)

BELLA - 2.3 mm



Delivered assembled with endpiece

patented

Catalogue 2026 | 2027 - Subject to change without prior notice - all measurements in mm

60-17051 with one piece end piece 52- 14023.300	Bella	bronze	60-17051 with one piece end piece 52- 14023.400	Bella	bronze	60-17051.29X	Bella	bronze
12.5 2.3 0.9 3.7 2.3 25 Ø1.4 Ø2.3 Ø1.3 OBE Star nut M1.4 Screws: 99-01610 Safety			13.1 2.4 0.9 3.7 2.3 25 Ø1.4 Ø2.3 Ø1.3 2x M1.4 Screws: 99-01610 Safety			2.2 18 25 Ø1.3 M1.4 Screws: 99-01610 Safety		

SKINNY - 1.9 mm



Delivered assembled with endpiece

60-07042	Skinny	nickel silver
A technical drawing of the Skinny 1.9 mm temple, showing two views: a side view and a front view. The side view shows the temple's profile with a 1° angle at the top and a 70 mm length. The front view shows the temple's width of 1.9 mm and a hole with a diameter of Ø1.4. The drawing also indicates a thread of M1.4 and a length of 18 mm for the upper part of the temple.		

STEALTH - 1.6 mm



Delivered assembled with endpiece

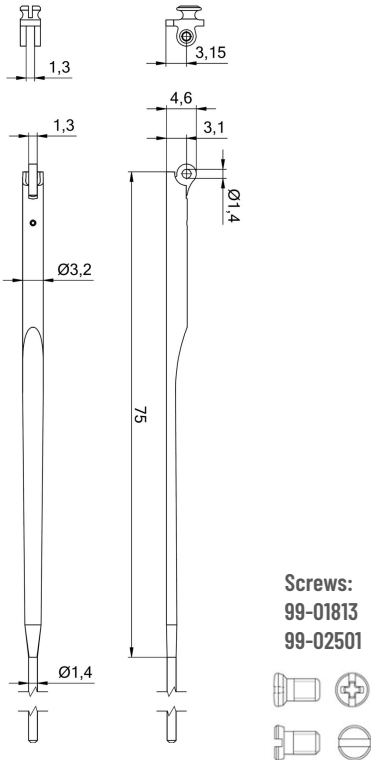
60-07043	Stealth	nickel silver
A technical drawing of the Stealth 1.6 mm temple, showing two views: a side view and a top view. The side view shows the temple's profile with dimensions: a total length of 70 mm, a width of 11.3 mm at the top, and a width of 1.6 mm at the bottom. The top view shows the temple's cross-section with dimensions: a width of 1.6 mm, a hole diameter of Ø1.4 mm, and a hole depth of 1.4 mm. The drawing is labeled with 'M1.4' and 'Ø1.4'.		

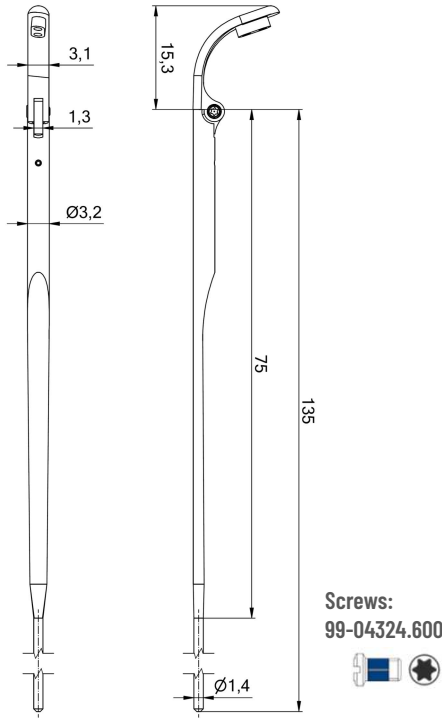
DUNE - 3.2 mm



Delivered assembled with endpiece

Catalogue 2026 | 2027 - Subject to change without prior notice - all measurements in mm

60-07056 with front hinge 90° 33-09039	Dune	copper nickel
		

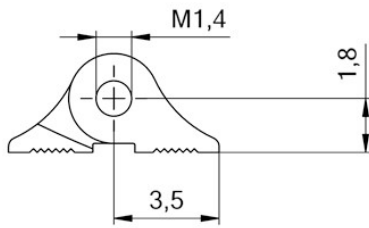
60-07056.29X	Dune	copper nickel
		

SPACE HINGES

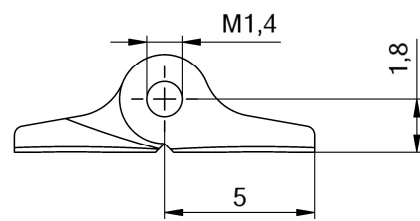
- Regular nickel silver hinge for metal temples in two profile shapes
- Smooth movement & anti-loosening function with Space screws
- Delivery status loose – assembled with screw upon request



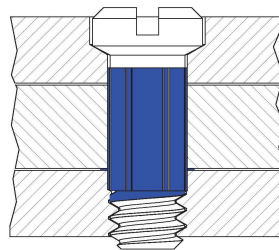
Profile: A



Profile: B



Space

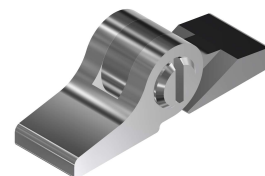
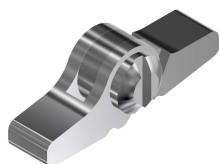


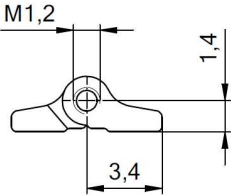
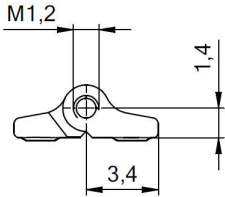
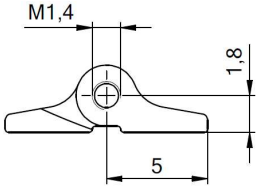
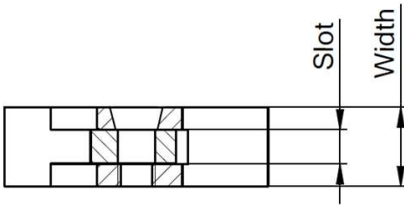
Space Hinge collection

Art.No.	51-04200	50-04236	51-04446	51-04447	51-04206	51-04120	51-04418	51-04121	51-04205	51-04448
Profile	A soldering	B welding	A soldering	B soldering	A soldering	B soldering	A soldering	B soldering	A soldering	B soldering
Width	2.1	2.1	2.5	2.5	3.0	3.0	3.5	3.5	4.0	4.0
Slot	0.9	0.9	1.0	1.0	1.2	1.2	1.4	1.4	1.6	1.6
Screw head Ø	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Space Screws	 99-05328.600 99-02328.600		 99-05310.600 99-02310.600		 99-05324.600 99-02324.600		 99-05325.600 99-02325.600		 99-05327.600 99-02327.600	
Dummy screws	99-01435				99-01375		99-01376 99-01700		99-01377	

INOX HINGES

- Regular hinges made from stainless steel
- Anti-loosening function & smooth movement function with plastic coated screws
- Delivery status loose - assembled with screw upon request



Profile: A	soldering	Profile: B	welding	Profile: C	soldering
					
					

Inox Hinge collection								
Art.No.	51-44520	50-44530	51-44015	50-44030	51-44534	50-44534	51-44526	51-44511
Profile	A	B	A	B	A	B	C	C
Width	1.5	1.5	1.5	1.5	2.1	2.1	3.0	3.0
Slot	0.7	0.7	0.7	0.7	0.9	0.9	1.2	1.3
Screw head Ø	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0
Screws	 99-02001	 99-02001	 99-01915	 99-01915	 99-01592 99-01850	 99-01592 99-01850	 99-05324.600 99-02324.600	 99-01813 99-02501

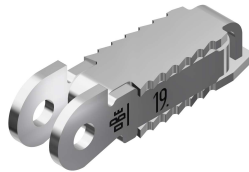
INJECTION & 3D PRINTED FRAMES

FLEX HINGES

	PRODUCT	ARTICLE NO.	PAGE
	PLUG & FLEX	60-49460	74
	INFLEXINO	60-08042.X90	75
	INFLEX	60-44064.XXX	76
	ULTRAFLEX 170°	60-07057 60-07064	77
	FLEXUNO ON SHORT WIRE	73-04063.900 73-04064.900	78 79

PLUG & FLEX - 2.8 mm

- Spring hinge for injected frames - 100% made in stainless steel
- Easy, fast and cost-effective mounting
- Zero rocking thanks to flexUno technology

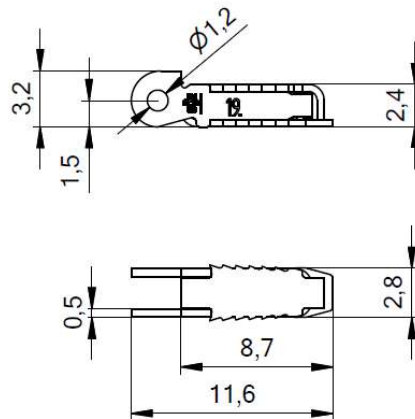


patented

60-49460.200.10

Injection / embedded in 3D printing

not exchangeable



Matching parts

Direct joining screws

Pin

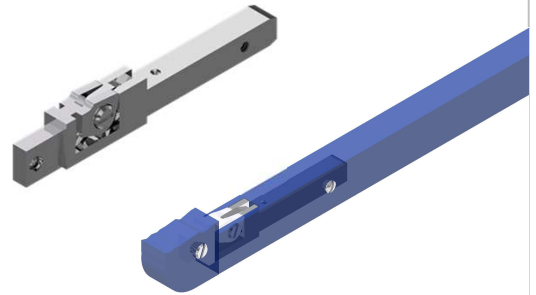
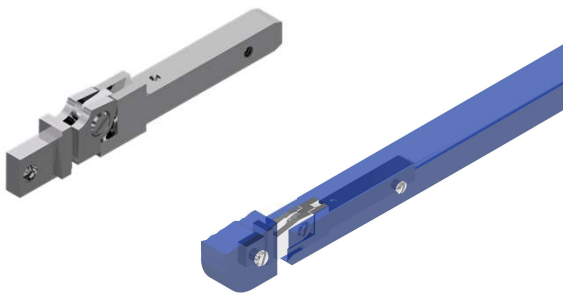


99-02910 - 6.3 mm
99-02911 - 8.0 mm

11-20025

INFLEXINO – 2.8 mm

- Nickel silver spring hinge ready to use with or without gap
- Already assembled with front hinge
- Stable mechanism in stainless steel already pre-assembled

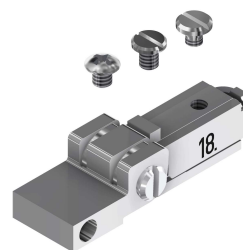
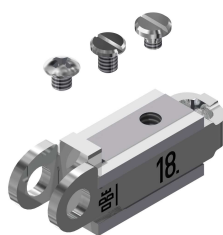


60-08042.890 With gap	Injection / embedded in 3D printing	Fixed with screws - Exchangeable	60-08042.990 gapless	injection / embedded in 3D printing	Fixed with screws - Exchangeable

Matching parts	
Fixation to front	Fixation to temple
99-01375 M1,4 x 3,4	99-02027 M1,2 x 3,8

INFLEX - 2.8 mm

- Short nickel silver spring hinge optionally assembled with front hinge - nickel plated
- Stable U-shaped mechanism in stainless steel already pre-assembled
- Zero rocking & easy adjustment with flexUno two-barrel construction



patented

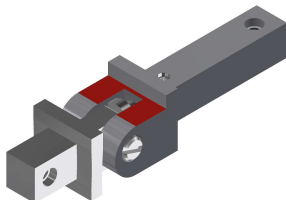
60-44064.866	injection / embedded in 3D printing	Fixed with screws - Exchangeable	60-44064.290	injection / embedded in 3D printing	Fixed with screws - Exchangeable

Matching parts - Standard				
Front hinges for plastic frames 90°	Step hinges for soldering	Hinge screws	Direct joining screw	Fixation of Inflex with temple
33-04164	52-05265	99-01816 99-02503 99-04816 99-02591 self aligning	99-02907	99-01436 (ø 2.5 with stop) 99-01750 (ø 2.2) 99-02037 (ø 2.2)

Matching parts - Hidden solution			
Three-barrel block hinges	Fixation screws to front	Hinge screws	
32-04078	99-01752 - 3.7mm 99-02023 - 4.4mm 99-02009 - 4.5 mm 99-02028 - 5.6 mm	99-01816 99-02503 99-02591 self aligning	

ULTRAFLEX 170° - 2.8 mm

- Nickel silver spring with extended opening angle (170°)
- Optionally with an additional lateral movement (Ultraflex Plus)
- Patented "always-in" mechanism

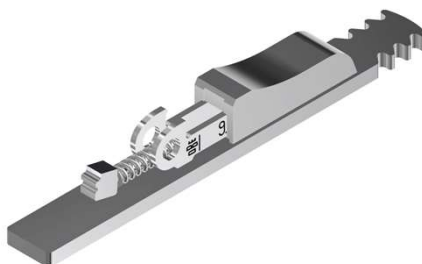


60-07057.290.01/02	injection / embedded in 3D printing	Fixed with screw - exchangeable	60-07064.400.01/02 ULTRAFLEX PLUS	injection / embedded in 3D printing	Fixation with screw - exchangeable

Matching parts	
Fixation to front	Fixation to temple
99-01850	99-01850

FLEXUNO ON SHORT WIRE - 3.0 mm

- Nickel silver short hinge on wire - nickel plated
- Easy & stable U-shaped click-in mechanism in stainless steel
- Zero rocking & easy adjustment with flexUno two-barrel construction



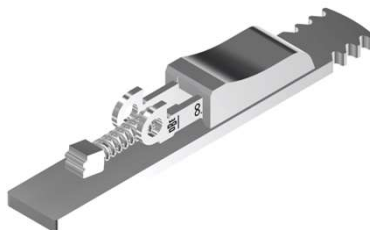
patented

73-04063.900	injection	mechanism exchangeable
Barreling cap for case 91-20217		
Case	Side hinge	Spring mechanism
17-04063	44-44063	60-04063.030

Matching parts						
Front hinges for soldering	Front hinges for welding	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Screws
52-05067 52-04263	52-04063	33-05363 33-04163 off center 33-04067 33-02363 0°/6° inclination	33-04063	52-05363 52-05463 52-05563	51-05130 0°/6° inclination Matching rivets: see page T14	99-01814 99-02524 99-04814 99-02524.800 self aligning for break off

FLEXUNO ON SHORT WIRE - 4.3 mm

- Nickel silver short hinge on wire - nickel plated
- Easy & stable U-shaped click-in mechanism in stainless steel
- Zero rocking & easy adjustment with flexUno two-barrel construction

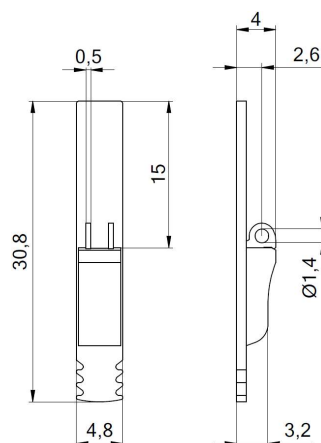


patented

73-04064.900

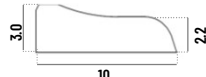
injection

mechanism exchangeable



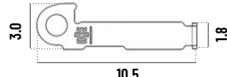
Barreling cap for case 91-20212

Case



17-04064

Side hinge



44-44064

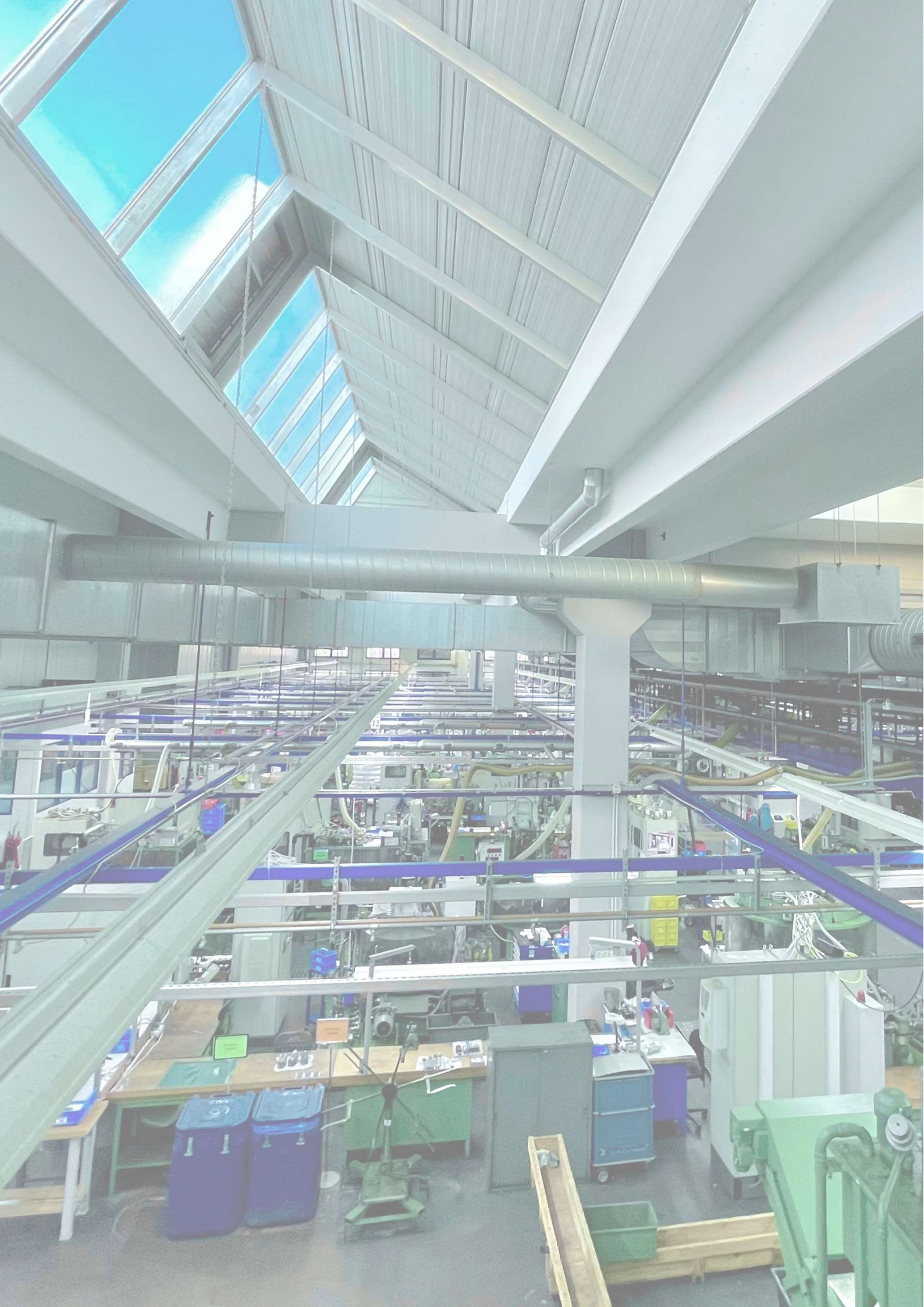
Spring mechanism



60-04064.050

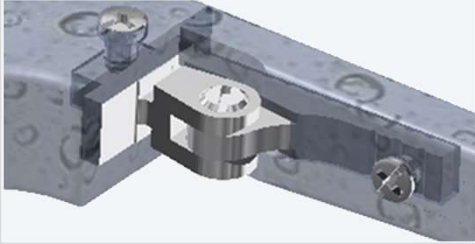
Matching parts

Front hinges for soldering	Front hinges for welding	Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Screws
52-05064 52-04264	52-04064	33-05164 33-04164 off center 33-02364 0°/6° inclination	33-04064	52-05164 52-05264	51-05129 0°/6° inclination Matching rivets: see page T14	99-01816 99-02503 99-04816 99-02503.800 self aligning for break off 99-02591 self aligning



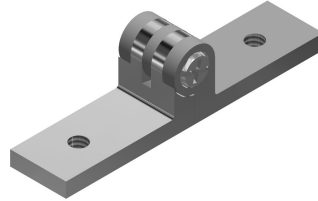
INJECTION & 3D PRINTED FRAMES

NON-FLEX HINGES

	PRODUCT	ARTICLE	PAGE
	SCRIVET	51-05097	82
	D-HINGE	70-42008	83
	EASYLINK	52-40012 52-40010 52-40013	84
	MARIPOSA	70-02112	85
	ANIMELLE	70-02050	86
	INJECT-IT	70-02110 70-02111 70-02116 70-02117	87-88

SCRIVET - 4.1 mm

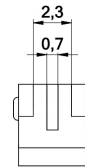
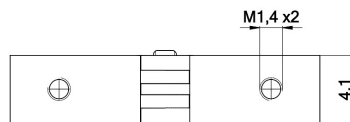
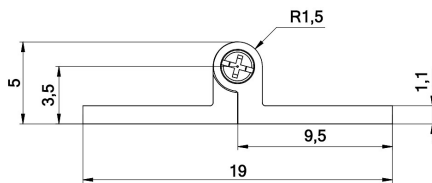
- Look-a-like rivet hinge fixed with screws
- Robust 5-barrel nickel silver construction - nickel plated
- Smooth articulation with Space Screw technology



51-05097.803.01/02

injection / embedded in 3D printing

fixation with screws -
exchangeable



Hinge screws

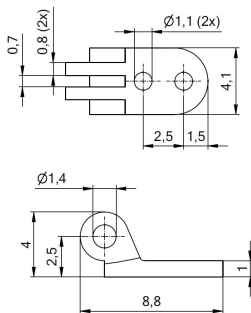


99-05379.600

99-02379.600

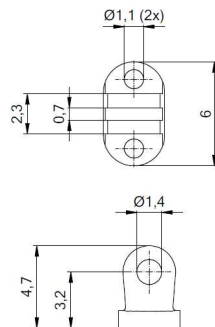
Further matching parts

Rivet hinges



51-05000

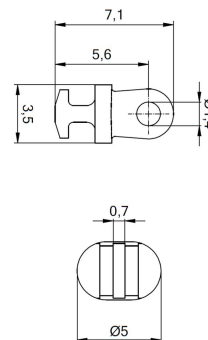
Rivet hinges



51-05024

0°/6° inclination

Front hinges
for plastic frames 90°



33-04555

Rivets



11-20261 - 10.0 mm
11-20247 - 8.0 mm
11-20318 - 5.8 mm
11-20251 - 5.4 mm
11-20245 - 4.2 mm
11-20246 - 3.0 mm
11-20260 - double rivet

D-HINGE - 3.0 mm

- High-grade stainless-steel temple hinge in two designs
- Stability control: Secure temple attachment - fixed with a robust screw
- Movement control - Space Screw system ensures a consistent and reliable feel

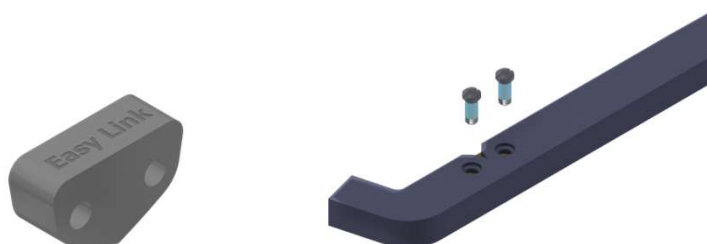


70-42008.400.01/02	injection / embedded in 3D Printing	fixation with screw - exchangeable	70-42008.800.01/02	injection / embedded in 3D printing	fixation with screw - exchangeable

Matching parts	
Fixation to temple	Hinge screws
99-01435 99-04724	99-05331.600 99-04730 99-01719

EASYLINK - 0.6 | 1.3 | 3.0 mm

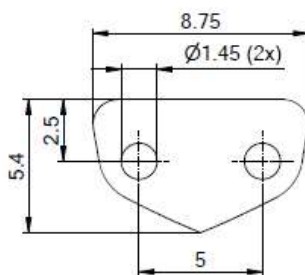
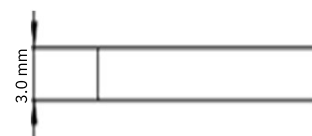
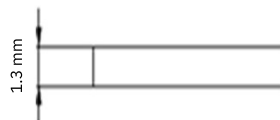
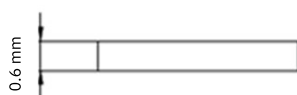
- Dual function hinge in stainless steel combining temple and front hinge in one unit
- Smooth movement with Space Screw technology integrated
- 3 widths available - widest version can be laser engraved



52-40012.000.X0

52-40010.000.X0

52-40013.000.X0



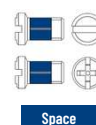
Matching parts

Threaded sleeve



93-00023.040.00

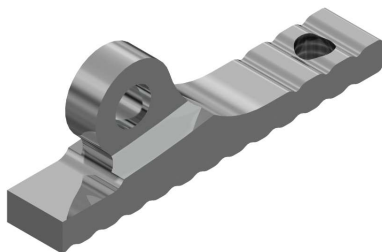
Hinge screws



Select the appropriate SPACE Screw from page 104 according to the temple height

MARIPOSA - 2.2 mm

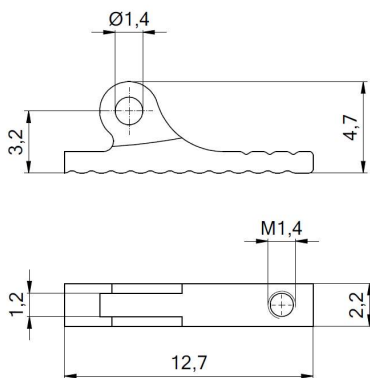
- Nickel silver hinge - nickel plated
- Easy assembly with screws to the front and temple
- Smooth movement with Space Screw technology



70-02112

injection / embedded in 3D printing

fixation with screw -
exchangeable



Matching parts

Front hinges for plastic frames 90°	Fixation screws to front	Fixation screws with temple	Hinge screws
33-02112	99-01814	99-01803	99-05324.600 99-02324.600

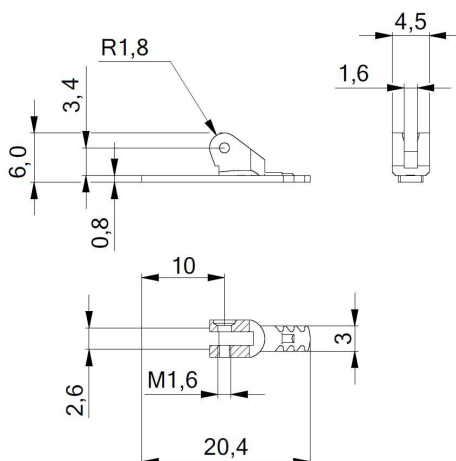
ANIMELLE - 4.5 mm

- Short hinge on wire - nickel plated
- Smooth movement with ISH technology



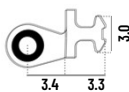
70-02050

injection / not exchangeable



Matching parts

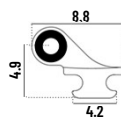
Safety hinges
for plastic frames 90°



ISH

32-02483

Safety hinges
for plastic frames 180°



ISH

33-04537

Screws



99-01455

INJECT-IT - 1.2 mm

- One piece short hinge on wire in nickel silver - nickel plated
- Smooth movement with Space Screw or ISH technology



70-02110	injection / not exchangeable	70-02111 - with injected plastic	injection / not exchangeable
Screw 99-05324.600 99-02324.600		Screw 99-01375	

Matching parts			
Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Rivet hinges / Rivets	Step hinges
33-02111 33-02112	33-02110	51-02113 Matching rivets: see page 114	52-02111

INJECT-IT - 1.6 mm

- One piece short hinge on wire in nickel silver - nickel plated
- Smooth movement with Space Screw or ISH technology



70-02116	injection / not exchangeable	70-02117 - with injected plastic	injection / not exchangeable
Screw 99-05327.600 99-02327.600		Screw 99-01377	

Matching parts			
Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Rivet hinges	Step hinges
33-02117 33-02118	33-02116	51-02129 Matching rivets: see page 114	52-02116

PURE TITANIUM FRAMES

FLEX HINGES

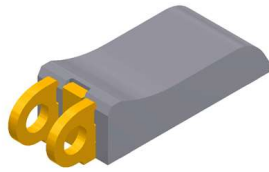
	PRODUCT	ARTICLE NO.	PAGE
 CLASSIC TWO-BARREL FLEX	FLEXUNO-TI	60-24164	90
 CLASSIC ONE-BARREL FLEX	FLEXINO-TI	60-24021 60-24002	91 92
 DESIGN TWO-BARREL FLEX	WAFFER-TI	60-24061	93
 DESIGN ONE-BARREL FLEX	WAFFER-TI	60-24006	94
ONE-BARREL MECHANISMS	FLEXINO SOLO-TI	60-44015.8XX 60-44022.8XX	95 96
TWO-BARREL MECHANISMS	FLEXUNO INTEGRATED-TI	60-44063.82X	97

NON-FLEX HINGES

	PRODUCT	ARTICLE NO.	PAGE
	TITANIUM HINGES	VARIOUS	98

FLEXUNO-TI - 4.3 mm

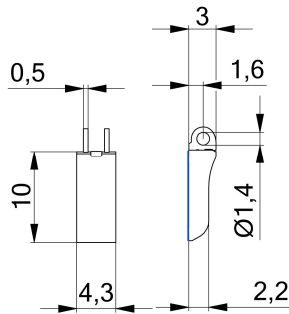
- 100% titanium spring hinge in classic look
- Robust two-barrel flexUno technology - already pre-assembled
- Durable gold finish - ideal for aggressive processing conditions



patented

60-24164

laser welding

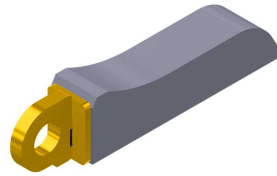


Matching parts

Front hinges for soldering and laser welding	Front hinges for plastic frames 90°	Step hinges for soldering and laser welding	Screws
52-24065	33-05164 nickel silver 0°/6° inclination	52-25264	99-01816 99-02503 99-04816 99-02503.800 self aligning for break off

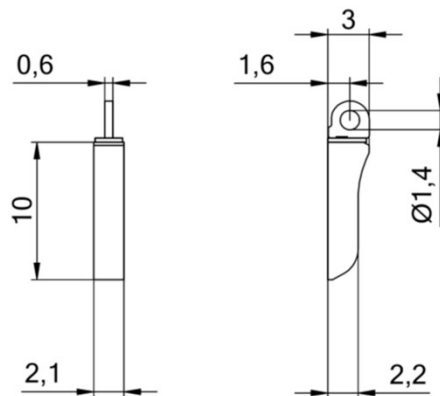
FLEXINO-TI - 2.1 mm

- 100% titanium spring hinge
- Robust one-barrel stainless-steel mechanism already pre-assembled
- Durable gold finish - ideal for aggressive processing conditions



60-24021

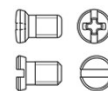
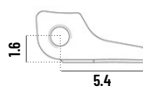
laser welding



Matching parts

Front hinges
for soldering and laser welding

Screws

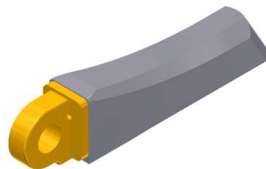


52-24021

99-01810
99-02506

FLEXINO-TI - 2.4 mm

- 100% titanium spring hinge
- Robust one-barrel stainless-steel mechanism already pre-assembled
- Durable gold finish - ideal for aggressive processing conditions

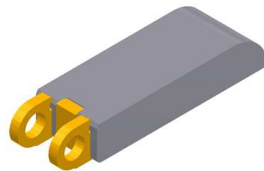


60-24002	resistance welding	60-24102	laser welding

Matching parts		
Front hinges for soldering and laser welding	Front hinges for plastic frames 90°	Screws
52-25071 double action	33-05100 nickel silver 0°/6° inclination	99-01811 99-02525 99-04811

WAFER-TI - 3.6 mm

- 100% titanium spring hinge in a low-profile design
- Robust two-barrel flexUno technology - already pre-assembled
- Durable gold finish - ideal for aggressive processing conditions



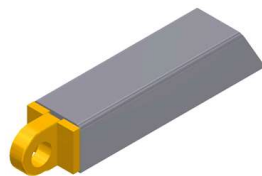
patented

60-24061	resistance welding	60-24161	laser welding

Matching parts		
Front hinges for laser welding	Front hinges for plastic frames	Screws
52-24161	33-04066 nickel silver 0°/6° inclination	99-02023

WAFER-TI - 2.8 mm

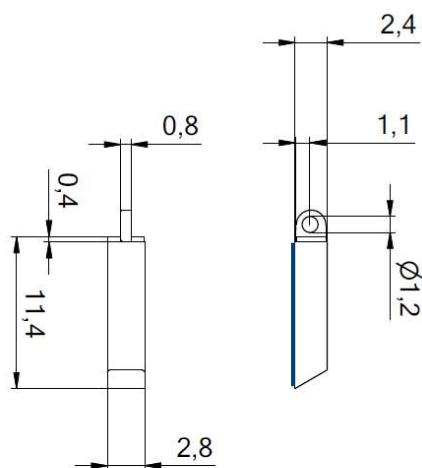
- Zero allergy one-barrel spring hinge in low profile for pure titanium frames
- Stable mechanism in stainless steel already pre-assembled
- flexIno one-barrel construction in wafer look
- Corrosion resistance thanks to gold plating



patented

60-24006

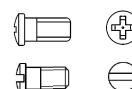
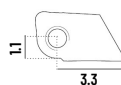
laser welding



Matching parts

Front hinges
for soldering and laser welding

Screws

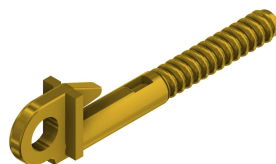


52-24106

99-01756
99-02031

FLEXINO SOLO-TI - 0.6 mm

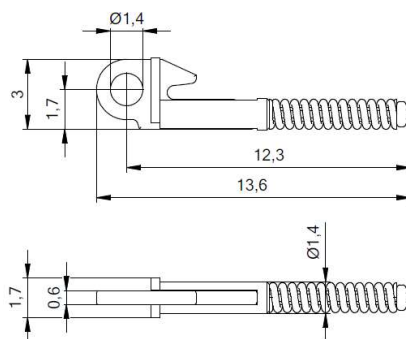
- One-barrel spring mechanism with integrated anti-friction washer
- Gold plating protection for titanium temples against aggressive acids
- Recommended temple width 1.9 - 2.6 mm



patented

60-44015.8XX

fixation by peening

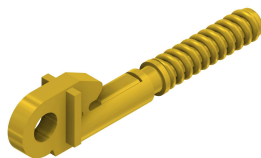


Washer width (mm)

1.7

FLEXINO SOLO-TI - 0.9 mm

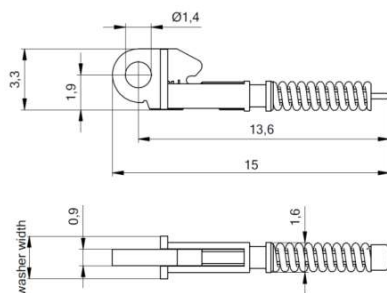
- One-barrel mechanism with integrated anti-friction washer
- Gold plating protection for titanium temples against aggressive acids
- Recommended temple width 2.1 - 3.5 mm



patented

60-44022.8XX

fixation by peening

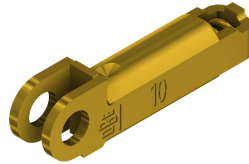


Different washer widths available for titanium temples (mm)

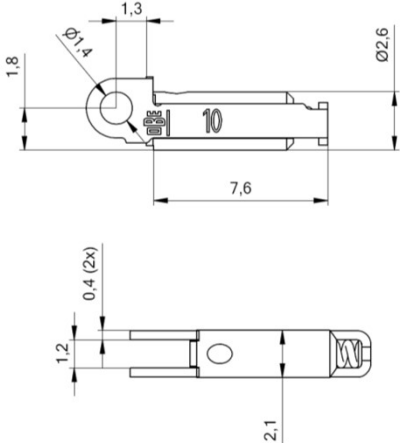
2.00, 2.20, 2.40, 2.60, 3.00, 3.60, 3.40

FLEXUNO INTEGRATED-TI - 2x 0.4 mm

- Two-barrel spring mechanism with integrated anti-friction washer
- Gold plating protection for titanium temples against aggressive acids
- Zero rocking & easy adjustment with flexUno technology
- Recommended temple width 3.2 – 8.0 mm



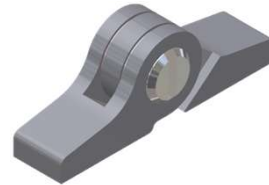
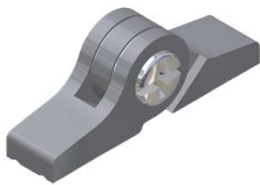
patented

60-44063.820	fixation by peening	standard spring
60-44063.825		strong spring
		

Matching parts		
Front hinges for soldering and laser welding	Front hinges for welding	Screws
52-25065 titanium	52-24063 titanium	99-01814 99-02524 99-04814

TITANIUM HINGES – 2.3 mm & 3.0 mm

- Regular titanium with integrated anti-friction washer
- Delivery status assembled with screw

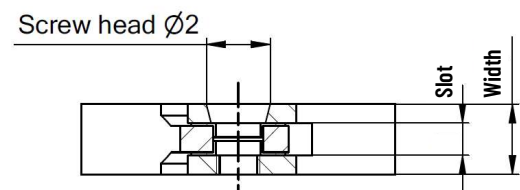
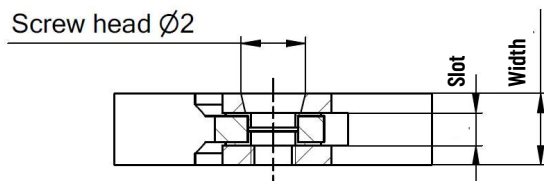
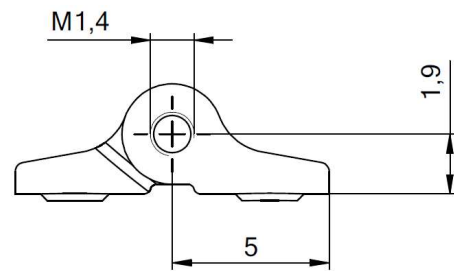
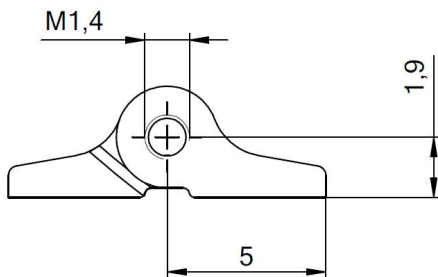


Profile: A

soldering

Profile: B

welding



Matching parts

Art.No.	51-27412.100  51-27412.200 	50-27422.100 	51-27414.100  51-27414.200 	50-27424.100  50-27424.200 
Profile	A	B	A	B
Width	2.3	2.3	3.0	3.0
Slot	1.0	1.0	1.2	1.2
Screw head Ø	2.0	2.0	2.0	2.0

FRAMES MADE FROM SPECIAL MATERIALS

FLEX HINGES

	PRODUCT	ART. NO.	PAGE
	WAFERELLA	73-04061.900	100
	C'FLEX	60-04088	101
	SLIDEX	60-03088	102

WAFERELLA - 4.8 mm

- Round shaped nickel silver spring hinge on short wire - nickel plated
- Stable U-shaped mechanism in stainless steel already pre-assembled
- Designed for wooden frames
- MOQ 500 pairs

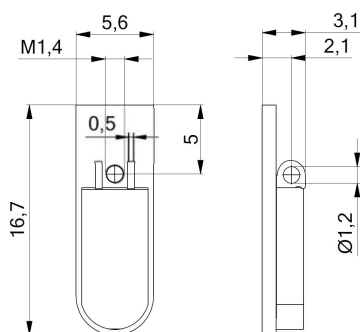


patented

73-04061.900

fixing with screw

exchangeable



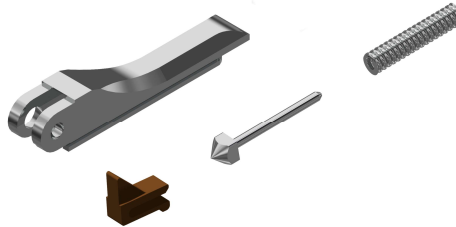
Barreling cap for case 91-05061
Milling tool 20-47448

Matching parts - Standard

Front hinges for plastic frames 90°	Front hinges for plastic frames 180°	Step hinges for soldering	Rivet hinges	Hinge screws	Fixation to temple
33-04061 33-04071 round foot 33-04261 off center 0°/6° inclination	33-04161	52-04161	51-05061 Matching rivets: see page 114	99-02017 99-02017.800 self aligning for break off	99-02024

C'FLEX - 3.0 mm

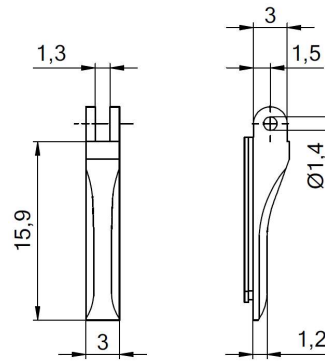
- Nickel silver spring hinge in low profile
- Flat design enables elegant integration in titanium or aluminum temples



60-04088

fixing in temple groove

exchangeable

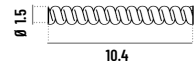
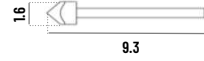
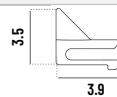
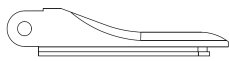


Case

Plunger

Spring bolt

Spring



60-04088.023

11-20132

11-20133.041

97-17899

Matching parts

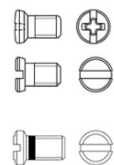
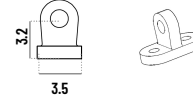
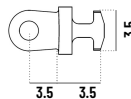
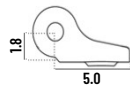
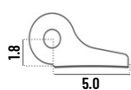
Front hinges
for soldering

Front hinges
for welding

Front hinges
for plastic frames 90°

Rivet hinges

Screws



Safety

52-05101

52-04266 titanium

33-05066

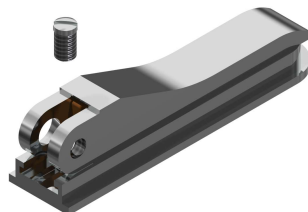
51-05005

Matching rivets:
see page 114

99-01813
99-02501
99-01539

SLIDEX - 4.5 mm

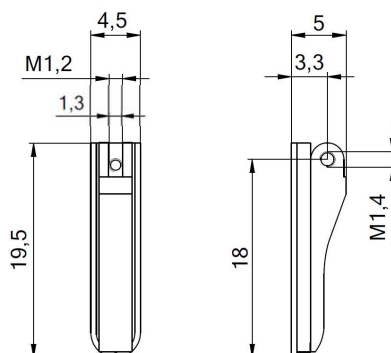
- Nickel silver spring hinge on short wire in low profile - nickel plated
- Flat design enables elegant integration in buffalo horn or wooden temples
- Stable pre-assembled spring mechanism
- MOQ 200 pairs



60-03088

fixing with screw

exchangeable

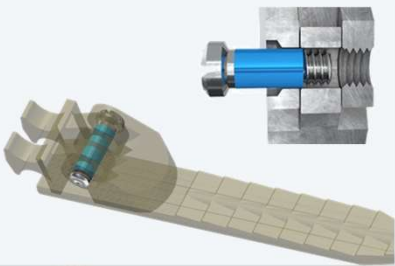
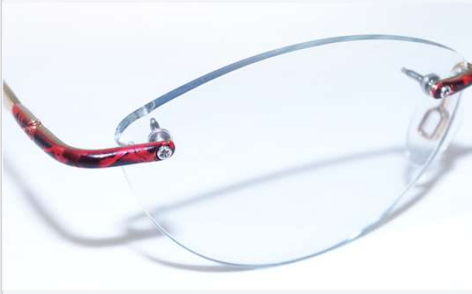


Milling tool 20-47441

Matching parts

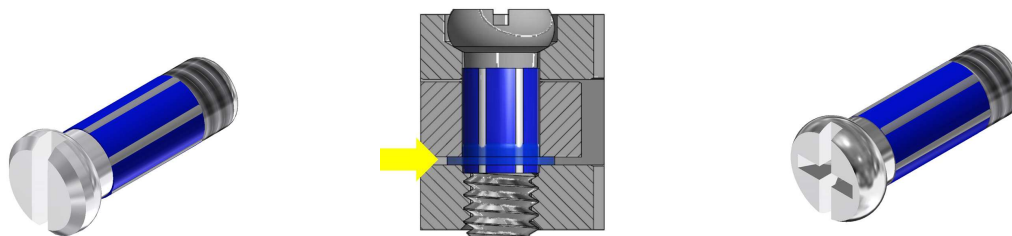
Front hinges for plastic frames 90°	Rivet hinges	Hinge screws	Fixation to temple
33-05066	51-05005 Matching rivets: see page 114	99-01813 99-02501 99-01539	99-02018

SPECIAL SCREWS AND ACCESSORIES

SCREWS		
	PRODUCT	PAGE
	SPACE SCREWS FOR HINGES	104
	SAFETY SCREWS FOR RIM LOCKS	105
	6 POINT STAR SCREWS FOR HINGES & RIM LOCKS	106
	DIRECT JOINING SCREWS	107
	CONICAL HEAD SCREWS FOR HINGES	108
	FLAT HEAD SCREWS FOR HINGES	109
	DUMMY SCREWS	110
OTHERS		
	PRODUCT	PAGE
	PINS-UP FIXING SYSTEM	111
	INJECTION SAFETY NUT	112
	BLOCKS & PINS	113
	RIVETS	114

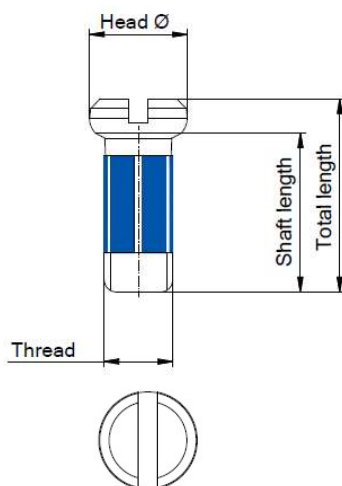
SPACE SCREWS FOR HINGES

- Stainless steel screws equipped with injected plastic for smooth movement & against loosening
- Main application in non-flex metal & plastic templates
- System possible to use up to 7-barrel hinges
- Torx® system upon request

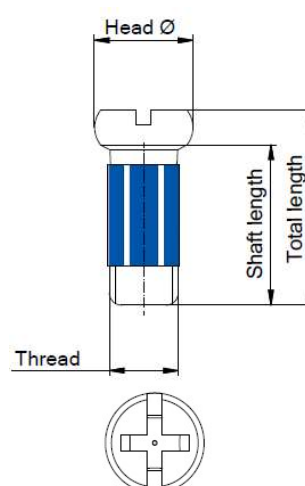


patented

Minus head



Plus-minus head



Minus head

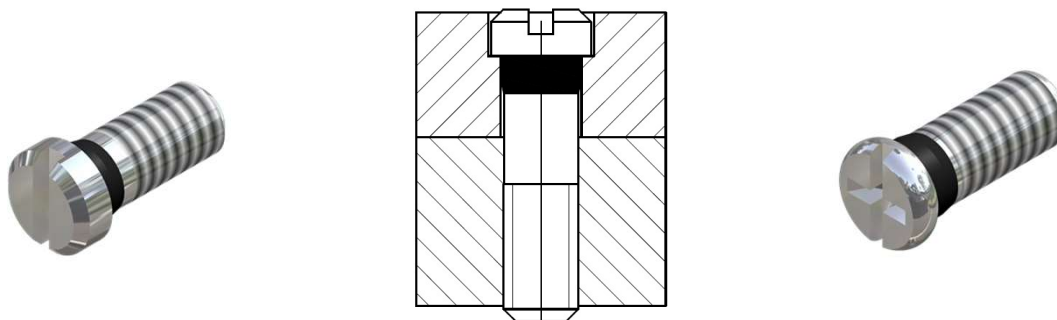
Art. No.	Thread	Total length	Shaft length	Head Ø
99-05305.600	M1.4	2.8	2.2	1.8
99-05310.600	M1.4	3.0	2.4	2.0
99-05322.600	M1.4	3.2	2.6	2.0
99-05311.600	M1.4	3.3	2.7	1.8
99-05324.600	M1.4	3.4	2.7	2.0
99-05328.600	M1.4	3.5	2.8	2.5
99-05323.600	M1.6	3.5	2.8	2.5
99-05397.600	M1.4	3.8	3.1	2.0
99-05325.600	M1.4	4.0	3.3	2.0
99-05301.600	M1.4	4.3	3.6	2.0
99-05327.600	M1.4	4.5	3.8	2.0
99-05379.600	M1.4	4.6	3.9	2.0
99-05333.600	M1.4	5.0	4.3	2.0
99-05334.600	M1.4	5.5	4.8	2.0
99-05331.600	M1.4	5.7	4.9	2.5
99-05332.600	M1.4	6.4	5.7	2.0
99-05375.600	M1.4	7.5	6.8	2.0
99-05380.600	M1.4	8.5	7.8	2.0
99-05308.600	M1.4	9.2	8.5	2.0

Plus-minus head

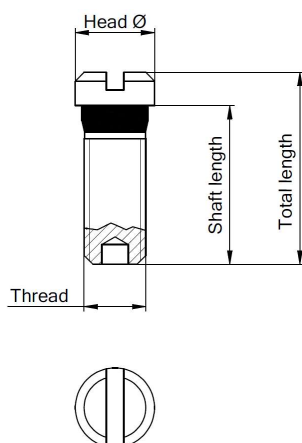
Art. No.	Thread	Total length	Shaft length	Head Ø
99-02305.600	M1.4	2.8	2.2	1.8
99-02310.600	M1.4	3.0	2.4	2.0
99-02322.600	M1.4	3.2	2.6	2.0
99-02324.600	M1.4	3.4	2.7	2.0
99-02328.600	M1.4	3.5	2.8	2.5
99-02393.600	M1.4	3.6	3.0	2.0
99-02397.600	M1.4	3.8	3.1	2.0
99-02325.600	M1.4	4.0	3.3	2.0
99-02301.600	M1.4	4.3	3.6	2.0
99-02327.600	M1.4	4.5	3.8	2.0
99-02379.600	M1.4	4.6	3.9	2.0
99-02333.600	M1.4	5.0	4.3	2.0
99-02334.600	M1.4	5.5	4.8	2.0
99-02374.600	M1.4	5.8	5.1	2.0
99-02356.600	M1.4	6.1	5.4	2.0
99-02332.600	M1.4	6.4	5.7	2.0
99-02376.600	M1.4	6.9	6.2	2.0
99-02375.600	M1.4	7.5	6.8	2.0
99-02380.600	M1.4	8.5	7.8	2.0

SAFETY SCREWS FOR RIM LOCKS

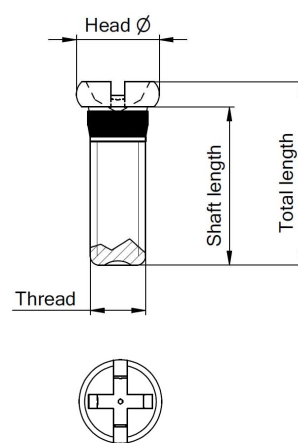
- Stainless steel screws with integrated safety system
- Main application for rim locks in metal frames
- Eliminate the risk of losing lenses by keeping them in position



Minus head



Plus-minus head



Minus head

Art. No.	Thread	Total length	Shaft length	Head Ø
99-01546	M1.2	3.1	2.3	1.6
99-01548	M1.2	3.6	2.8	1.6
99-01549	M1.2	4.1	3.3	1.6
99-01550	M1.2	4.5	3.7	1.6
99-01551	M1.2	5.0	4.2	1.6
99-01538	M1.4	2.6	1.8	1.8
99-01544	M1.4	2.7	2.1	2.0
99-01542	M1.4	2.8	2.0	1.8
99-01514	M1.4	2.9	2.3	2.0
99-01541	M1.4	3.1	2.3	1.8
99-01560	M1.4	3.2	2.6	2.0
99-01539	M1.4	3.4	2.6	1.8
99-01543	M1.4	3.5	2.7	1.8
99-01555	M1.4	3.5	2.9	2.0
99-01584	M1.4	3.6	2.9	2.0
99-01520	M1.4	3.7	3.1	2.0
99-01537	M1.4	3.9	3.1	1.8
99-01545	M1.4	4.0	3.2	1.8
99-01585	M1.4	4.0	3.2	2.0
99-01515	M1.4	4.0	3.4	2.0
99-01540	M1.4	4.4	3.6	1.8
99-01547	M1.4	5.0	4.2	1.8

Plus-minus head

Art. No.	Thread	Total length	Shaft length	Head Ø
99-01624	M1.2	3.2	2.6	1.8
99-01627	M1.2	4.4	3.8	1.8
99-01690	M1.4	2.4	1.8	2.0
99-01610	M1.4	2.7	2.1	2.0
99-01606	M1.4	3.0	2.4	2.0
99-01644	M1.4	3.2	2.6	1.8
99-01604	M1.4	3.2	2.6	2.0
99-01609	M1.4	3.4	2.8	2.0
99-01603	M1.4	3.6	3.0	2.0
99-01601	M1.4	3.8	3.2	2.0
99-01608	M1.4	4.0	3.4	2.0
99-01602	M1.4	4.2	3.6	2.0
99-01607	M1.4	4.6	4.0	2.0
99-01605	M1.4	5.0	4.4	2.0
99-01600	M1.4	5.9	5.3	2.0
99-01612	M1.4	6.4	5.8	2.0

6 POINT STAR SCREWS FOR HINGES & RIM LOCKS

- Stainless steel screws in Torx® system - application in all kind of frames
- Optimal handling: no slipping - easy assembling - no over-torquing
- Space Screws upon request

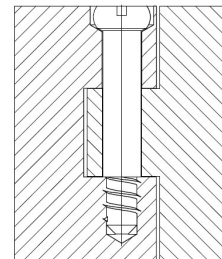
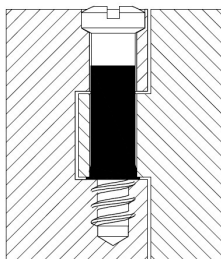


Conical head	Flat head	Injection safety screw for rim locks	Injection safety screw for hinges

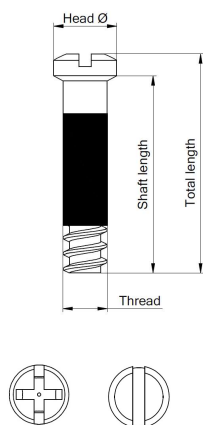
Art. No.	Size	Thread	Total length	Shaft length	Head Ø	Screw type
99-04750	T3	M1.2	2.3	1.8	2.2	Flat head screw
99-04002	T3	M1.2	9.0	8.5	1.9	Flat head screw for rimless frames
99-04001	T3	M1.2	13.0	12.4	2.0	Flat head screw for rimless frames
99-04803	T3	M1.4	2.4	1.6	2.0	Conical head screw
99-04728	T3	M1.4	2.8	2.1	2.0	Flat head screw
99-04811	T3	M1.4	3.0	2.2	2.0	Conical head screw
99-04812	T3	M1.4	3.3	2.5	2.0	Conical head screw
99-04324	T3	M1.4	3.4	2.7	2.0	Injection safety screw for hinges
99-04609	T3	M1.4	3.5	2.8	2.0	Injection safety screw for rim locks
99-04724	T3	M1.4	3.5	2.8	2.0	Flat head screw
99-04814	T3	M1.4	3.8	3.0	2.0	Conical head screw
99-04701	T3	M1.4	3.9	3.2	2.0	Flat head screw
99-04602	T3	M1.4	4.3	3.6	2.0	Injection safety screw for rim locks
99-04327	T3	M1.4	4.5	3.8	2.0	Injection safety screw for hinges
99-04816	T3	M1.4	4.5	3.7	2.0	Conical head screw
99-04333	T3	M1.4	5.0	4.3	2.0	Injection safety screw for hinges
99-04730	T3	M1.4	6.0	5.3	2.0	Flat head screw
99-04726	T3	M1.6	5.0	4.3	2.5	Flat head screw
99-04725	T3	M1.6	5.3	4.5	2.5	Flat head screw

DIRECT JOINING SCREWS

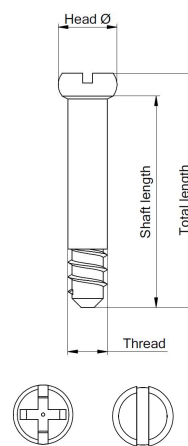
- Stainless steel screws with self-tapping function
- Optionally plastic injected or based on a conical shape



DJ-Screws with Safety Technology



DJ-Screws with conical head



DJ-Screws with Safety Technology

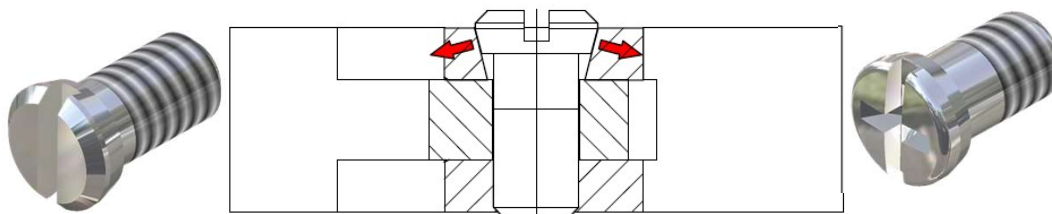
Art. No.	Thread	Total length	Shaft length	Head Ø
99-02902 	DJ1.4	6.2	5.5	2.0
99-02903 	DJ1.4	7.0	6.3	2.0
99-02908 	DJ1.4	9.2	8.5	2.0

DJ-Screws with conical head

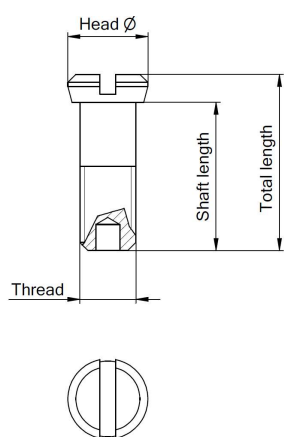
Art. No.	Thread	Total length	Shaft length	Head Ø
99-02901 	DJ1.2	2.7	2.1	1.6
99-02910 	DJ1.2	6.3	5.3	1.8
99-02907 	DJ1.4	6.3	7.3	1.8
99-02906 	DJ1.4	7.0	6.3	2.0
99-02904 	DJ1.2	7.6	6.9	1.8
99-02911 	DJ1.2	8.0	7.3	1.8

CONICAL HEAD SCREWS FOR HINGES

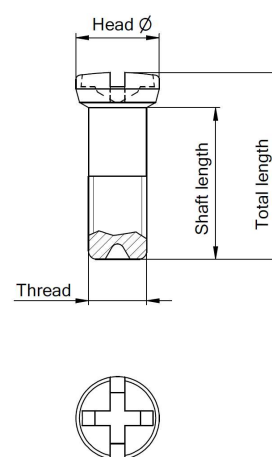
- Stainless steel screws with anti-loosening function
- Enable equal and precise movement of the hinge



Minus head



Plus-minus head



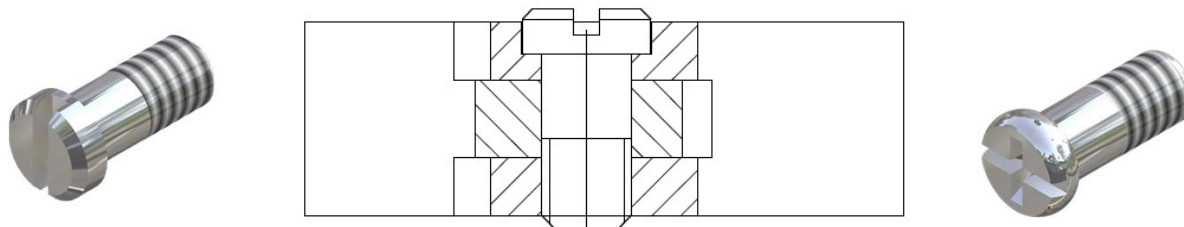
Minus head

Plus-minus head

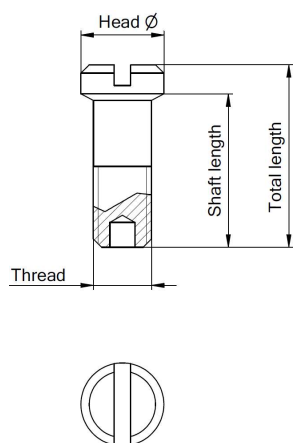
Minus head					Plus-minus head				
Art. No.	Thread	Total length	Shaft length	Head Ø	Art. No.	Thread	Total length	Shaft length	Head Ø
99-02550	M1.2	2.4	1.9	1.8	99-01803	M1.4	2.4	1.7	2.0
99-02530	M1.4	2.3	1.8	2.0	99-01810	M1.4	2.7	1.9	2.0
99-02506	M1.4	2.6	1.9	2.0	99-01811	M1.4	3.0	2.2	2.0
99-02525	M1.4	2.9	2.2	2.0	99-01812	M1.4	3.3	2.4	2.0
99-02507 Thread length 1.3	M1.4	3.2	2.5	2.0	99-01813 Thread length 1.4	M1.4	3.5	2.7	2.0
99-02500 Thread length 1.6	M1.4	3.2	2.5	2.0	99-01815 Thread length 1.9	M1.4	3.5	2.7	2.0
99-02501	M1.4	3.4	2.7	2.0	99-01814	M1.4	3.8	3.0	2.0
99-02524	M1.4	3.7	3.0	2.0	99-01817	M1.4	4.0	3.2	2.0
99-02502	M1.4	3.9	3.2	2.0	99-01818	M1.4	4.2	3.4	2.0
99-02503	M1.4	4.4	3.7	2.0	99-01816	M1.4	4.5	3.7	2.0
99-02526	M1.4	4.6	3.9	2.0					
99-02511	M1.6	3.5	2.7	2.5					
99-02515	M1.6	4.5	3.7	2.5					

FLAT HEAD SCREWS FOR HINGES

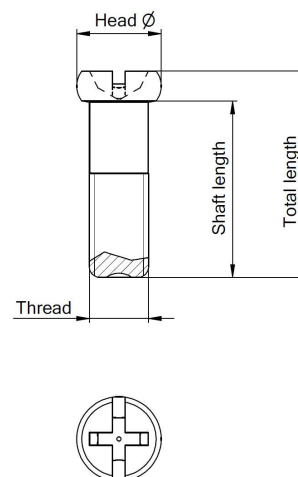
- Stainless steel screws
- Can be nickel or gold plated



Minus head



Plus-minus head



Minus head

Art. No.	Thread	Total length	Shaft length	Head Ø
99-02037	M1.2	2.0	1.6	2.2
99-02001	M1.2	2.3	1.8	1.8
99-02031	M1.2	3.0	2.5	1.6
99-02023	M1.2	4.4	3.9	1.6
99-02017	M1.2	5.2	4.5	1.6
99-02008	M1.4	2.7	2.1	2.0
99-02035	M1.4	3.4	2.7	1.8
99-01375	M1.4	3.4	2.7	2.0
99-01435	M1.4	3.6	3.0	2.5
99-01376	M1.4	3.9	3.2	2.0
99-01377	M1.4	4.4	3.7	2.0
99-01338	M1.6	3.2	2.6	2.0
99-01362	M1.6	3.4	2.8	2.5
99-01458	M1.6	3.5	2.9	2.5
99-01363	M1.6	4.0	3.3	2.5
99-01364	M1.6	4.4	3.7	2.5
99-01357	M1.6	4.8	3.9	2.8

Plus-minus head

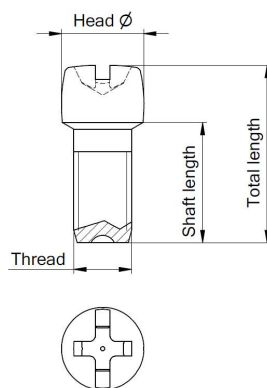
Art. No.	Thread	Total length	Shaft length	Head Ø
99-01750	M1.2	2.0	1.5	2.2
99-01751	M1.2	2.3	1.8	2.2
99-01722	M1.4	2.1	1.5	2.5
99-01703	M1.4	3.5	2.8	1.8
99-01730	M1.4	3.5	2.8	1.9
99-01700	M1.4	3.9	3.2	2.0
99-01708	M1.4	4.2	3.5	1.8
99-01715	M1.4	4.7	4.0	2.0
99-01721	M1.4	5.1	4.4	2.0
99-01718	M1.4	5.5	4.8	2.0
99-01720	M1.4	6.2	5.5	2.0
99-01719	M1.4	6.4	5.7	2.0
99-01716	M1.4	6.7	6.0	2.0

DUMMY SCREWS

- Stainless steel screws replacing Safety screws in soldering process
- Application: non-flex metal frames
- Easy handling & reusable



Plus-minus head



Plus-minus head

Art. No.	For hinges with wide of	Thread	Total length	Shaft length	Head Ø
99-01891	2.5 mm	M1.4	3.8	2.8	2.0
99-01893	3.0 mm	M1.4	4.3	2.8	2.0
99-01896	4.0 mm	M1.4	5.3	3.6	2.0
99-01898	4.5 mm	M1.4	5.8	4.0	2.0

PINS-UP FIXING SYSTEM

- Fixing end piece in stainless steel for rimless frames
- Two systems available: SCREW-IN or PRESSURE-MOUNT
- Stable one piece construction

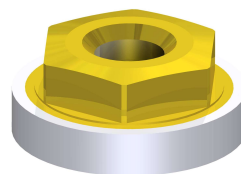
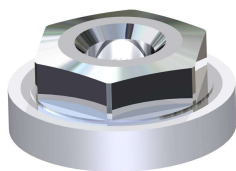


64-42004	screw-in	64-42005	clip-in

Matching parts		64-42004
OBE Star M1.2	OBE Star M1.2 gold plated	
93-02525.340.00	93-02525.340.60	

INJECTION SAFETY NUT

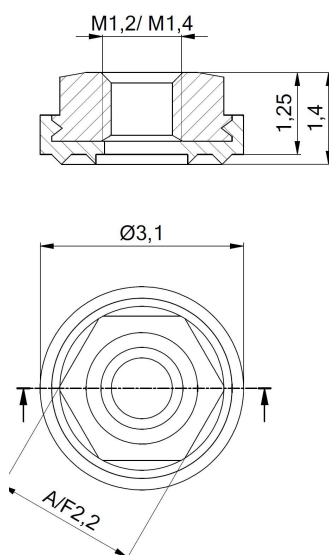
- Stainless steel safety nut with integrated plastic washer for rimless frames
- Available nickel-plated or gold-plated



patented

Standard

Gold plated



Version	Standard	Gold plated
M1.2	93-02525.340.00	93-02525.340.60
M1.4	93-02524.340.00	93-02524.340.60

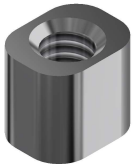
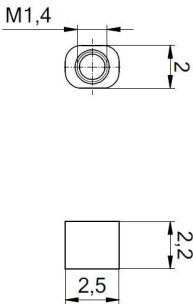
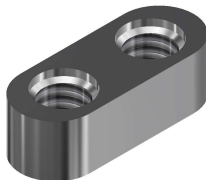
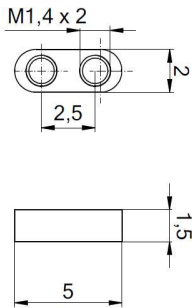
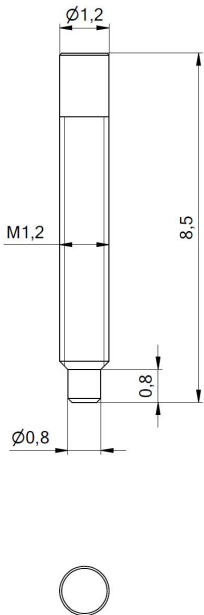
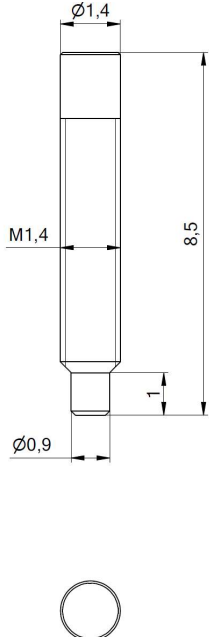
Matching parts for 93-02525



99-04002 9 mm
99-04001 13 mm

BLOCKS & PINS

- Connecting parts for end pieces
- Main application for rimless frames
- Increase combination possibilities to front parts

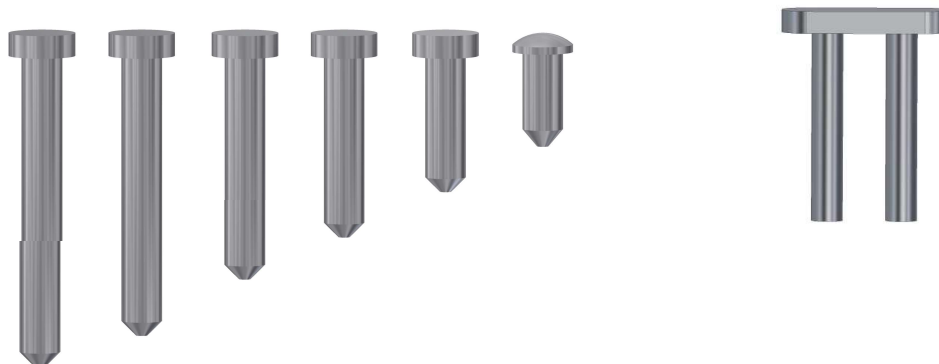
11-40341	nickel silver	11-20030	nickel silver
 		 	
99-00069	stainless steel	99-00068	stainless steel
 		 	

RIVETS

- Made from nickel silver
- Wide collection for all kind of temple widths

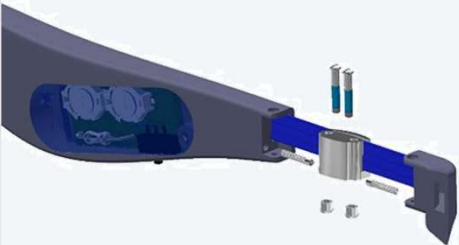
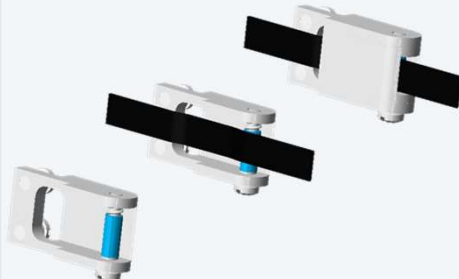
TI-20261 - 10.0 mm
 TI-20247 - 8.0 mm
 TI-20318 - 5.8 mm
 TI-20251 - 5.4 mm
 TI-20245 - 4.2 mm
 TI-20246 - 3.0 mm
 TI-20260 - double rivet

nickel silver



SMART GLASSES

HINGES WITH CABLE FEEDTHROUGH

	PRODUCT	ARTICLE NO.	PAGE
	SMARTLINK	53-40022	116
	FLOWLINK	70-42011 70-42012 70-42010	117

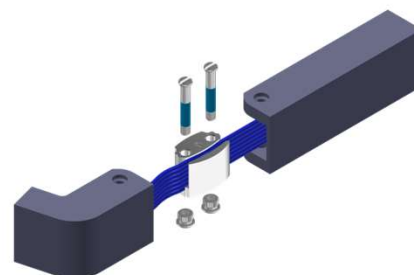
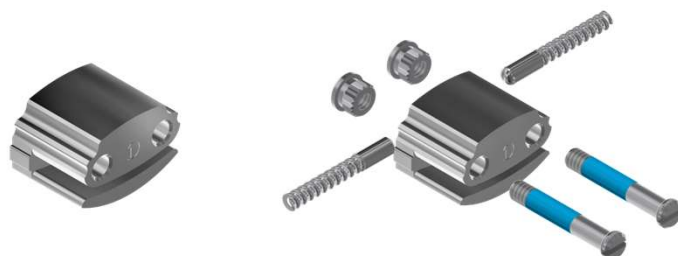
HINGES WITHOUT CABLE FEEDTHROUGH

	PRODUCT	ARTICLE NO.	PAGE
	VARIOUS SOLUTIONS	VARIOUS	118

SMARTLINK

- Made in medical stainless steel with zero nickel release
- Integrated cable feedthrough system with rounded corners
- Universal use for left and right temples
- Spring pushers of optimum temple positioning

RoHS
Compliant

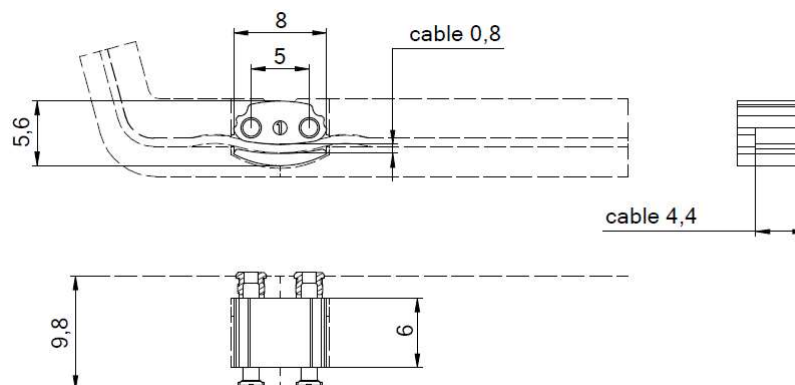


patented

53-40022.000.00

3g per Set

exchangeable



Matching parts

Spring pusher	Threaded sleeve	Fixation screws
		 
60-00022.050.00	93-00023.040.00	99-05308.600.00 99-04308.600.00

FLOWLINK

- Made in medical stainless steel with zero nickel release
- Two-piece side-neutral hinge with built-in tunnel for smooth and easy cable routing
- Exchangeable hinge system
- Fixed to the front with Space Screws for smooth movement

RoHS
Compliant



patent pending

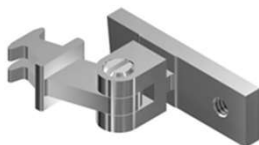
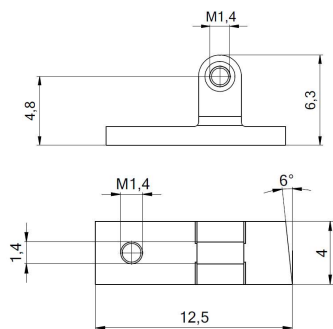
Catalogue 2026 | 2027 – Subject to change without prior notice – all measurements in mm

Case: 70-42011.500.10 Cover: 70-42011.100.10 0.7 g per Set	Case: 70-42012.500.10 Cover: 70-42012.200.10 1.3 g per Set	Case: 70-42010.500.10 Cover: 70-42010.200.10 1.8 g per Set
Case 	Case 	Case
Cover 	Cover 	Cover
Matching parts: Fixation screws to the temple		
99-04728 99-02046	99-02008 99-02046	99-04728 99-02008 99-02046
Matching parts: Hinge screws		
99-02911 99-02904	99-02907 99-02903.300	99-05310.600 99-02310.600 99-04324.600

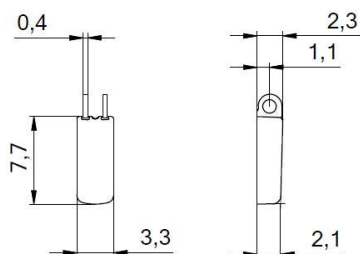
Space

HINGES WITHOUT CABLE FEEDTHROUGH

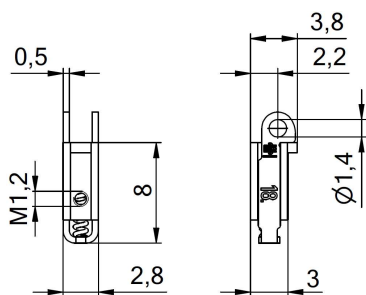
NON FLEX SOLUTION WITH SIDE BAR FOR ORIENTATION



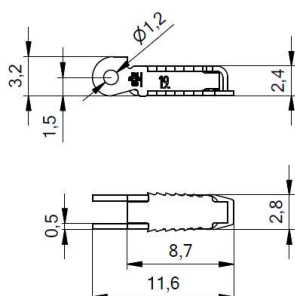
STAINLESS STEEL FLEX SOLUTION FOR PERFECT INTEGRATION



EXCHANGEABLE HIDDEN FLEX SOLUTION



EASY MOUNTING FLEX SOLUTION IN STAINLESS STEEL



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