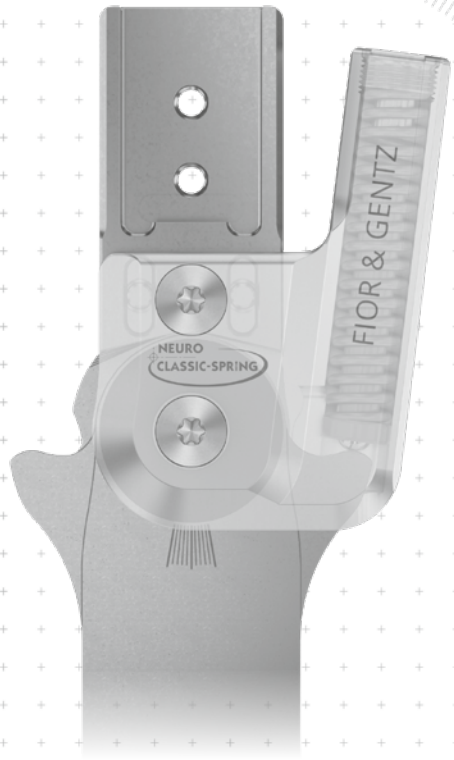
NEURO CLASSIC-SPRING



	Dorsiflexion Stop	Plantar Flexion Stop
Main Function	none *delivery status: static*	none (with dorsiflexion assist)
Adjustment Options	fileable	
Other Functions	none by filing	

The NEURO CLASSIC-SPRING system ankle joint can be converted into system ankle joints with plug + go modularity by filing the system stirrup and exchanging the functional unit and in the case of the NEURO HiSWING by mounting the spirit level as well. Furthermore, it can be converted into the NEURO CLASSIC free moving by filing the system stirrup and exchanging the cover plate as well as into the NEURO CLASSIC-SWING by exchanging the functional unit. The NEURO CLASSIC-SPRING system ankle joint without feather keys cannot be converted. The system joints are available in the categories with or without feather keys, depending on the system width. Conversion is only possible within the respective category.

The NEURO CLASSIC with the system stirrup of the main joint and the NEURO CLASSIC free moving can be used as supporting joints for the NEURO CLASSIC-SPRING system ankle joint with feather keys.

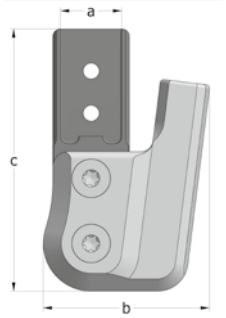
10mm 12mm 14mm 16mm 20mm

Joint Dimensions [mm]

Dimension	Description	System Width a 10mm	12mm	14mm	16mm	20mm
b	joint head width	24	31	37	43	51
c	joint height	30	38	45.5	55	67.5
	joint thickness	10	10	12	14	15

Joint Weights [g]

Material	Unit	System Width 10mm	12mm	14mm	16mm	20mm
steel	piece	21	38	62	90	131
titanium	piece	-	29	48	70	101



The NEURO CLASSIC-SPRING system ankle joint is delivered with the following articles:

cover plate pressing aid
orthosis joint grease, 3g
assembly/lamination dummy

➡ Please order shaping dummy, system stirrups and system side bars/anchors separately.
➡ You will find the shaping dummy on catalogue page A30.8.
➡ You will find system stirrups on catalogue page A30.9f.
➡ You will find system side bars and system anchors on catalogue page I1ff.

straight
fig. 1

bent inwards
fig. 2

bent outwards
fig. 3

Straight (Fig. 1)

Material	Leg Side	Unit	Article Number for System Width				
			10mm	12mm	14mm	16mm	20mm
steel	left lateral or right medial	piece	SF7200-L/ST	SF7201-L/ST	SF7202-L/ST	SF7203-L/ST	SF7205-L/ST
	left medial or right lateral	piece	SF7200-R/ST	SF7201-R/ST	SF7202-R/ST	SF7203-R/ST	SF7205-R/ST
titanium	left lateral or right medial	piece	-	SF7201-L/TI	SF7202-L/TI	SF7203-L/TI	SF7205-L/TI
	left medial or right lateral	piece	-	SF7201-R/TI	SF7202-R/TI	SF7203-R/TI	SF7205-R/TI

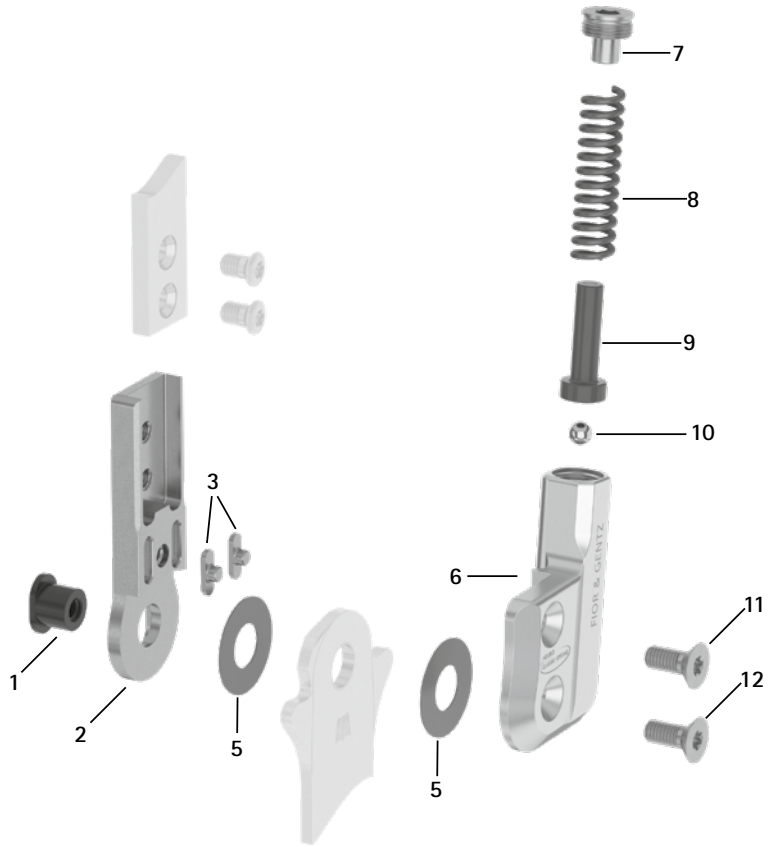
Bent Inwards (Fig. 2)

Material	Leg Side	Unit	Article Number for System Width				
			10mm	12mm	14mm	16mm	20mm
steel	left lateral or right medial	piece	SF7220-L/ST	SF7221-L/ST	SF7222-L/ST	SF7223-L/ST	SF7225-L/ST
	left medial or right lateral	piece	SF7220-R/ST	SF7221-R/ST	SF7222-R/ST	SF7223-R/ST	SF7225-R/ST
titanium	left lateral or right medial	piece	-	SF7221-L/TI	SF7222-L/TI	SF7223-L/TI	SF7225-L/TI
	left medial or right lateral	piece	-	SF7221-R/TI	SF7222-R/TI	SF7223-R/TI	SF7225-R/TI

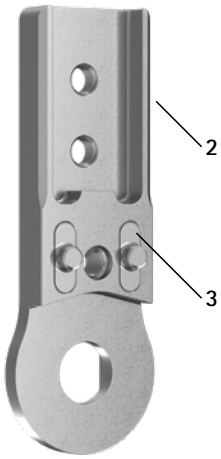
Bent Outwards (Fig. 3)

Material	Leg Side	Unit	Article Number for System Width				
			10mm	12mm	14mm	16mm	20mm
steel	left lateral or right medial	piece	SF7240-L/ST	SF7241-L/ST	SF7242-L/ST	SF7243-L/ST	SF7245-L/ST
	left medial or right lateral	piece	SF7240-R/ST	SF7241-R/ST	SF7242-R/ST	SF7243-R/ST	SF7245-R/ST
titanium	left lateral or right medial	piece	-	SF7241-L/TI	SF7242-L/TI	SF7243-L/TI	SF7245-L/TI
	left medial or right lateral	piece	-	SF7241-R/TI	SF7242-R/TI	SF7243-R/TI	SF7245-R/TI

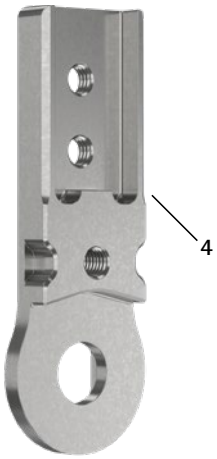
Spare Parts



Upper Part with Feather Keys, Preassembled (2–3)



Upper Part without Feather Keys (4)



Spare Parts for the System Joint with Feather Keys

Item	Article Number for System Width 10mm	12mm	14mm	16mm	20mm	Description
1	**SB6039-L0580***	SB7049-L0590*	SB8559-L0630*	SB9669-L0760*	SB1069-L0960*	bearing nut*
2-3	**SF0310-P/ST**	SF0311-P/ST	SF0312-P/ST	SF0313-P/ST	SF0315-P/ST	upper part with feather keys, straight, steel
2-3	**-**	SF0311-P/TI	SF0312-P/TI	SF0313-P/TI	SF0315-P/TI	upper part with feather keys, straight, titanium
2-3	SF0330-P/ST	SF0331-P/ST	SF0332-P/ST	SF0333-P/ST	SF0335-P/ST	upper part with feather keys, bent inwards, steel
2-3	-	SF0331-P/TI	SF0332-P/TI	SF0333-P/TI	SF0335-P/TI	upper part with feather keys, bent inwards, titanium
2-3	SF0330-8P/ST	SF0331-8P/ST	SF0332-8P/ST	SF0333-8P/ST	SF0335-8P/ST	upper part with feather keys, bent outwards, steel
2-3	-	SF0331-8P/TI	SF0332-8P/TI	SF0333-8P/TI	SF0335-8P/TI	upper part with feather keys, bent outwards, titanium
3	SF0390-01	SF0391-01	SF0392-02	SF0393-02	SF0395-02	feather key with pin
5	GS1206-**	GS1407-**	GS2009-**	GS2210-**	GS2611-**	sliding washer**
6	SF0760-L/AL	SF0761-L/AL	SF0762-L/AL	SF0763-L/AL	SF0765-L/AL	cover plate, left lateral or right medial
6	SF0760-R/AL	SF0761-R/AL	SF0762-R/AL	SF0763-R/AL	SF0765-R/AL	cover plate, left medial or right lateral
7	SC2007-L04	SC2008-L04	SC2009-L05	SC2011-L05	SC2011-L05	pressure screw
8	FE1622-01	FE1734-01	FE2736-01	FE2945-01	FE2966-02	coil spring, golden
9	SF0840-07	SF0841-07	SF0842-08	SF0843-10	SF0845-10	pin
10	KU1004-ST	KU1004-ST	KU1004-ST	KU1005-ST	KU1005-ST	ball
11	SC1403-L08	SC1404-L10	SC1405-L11	SC1405-L12	SC1405-L14	countersunk flat head screw with hexalobular socket
12	SC1403-L08	SC1404-L10	SC1405-L11	SC1405-L12	SC1406-L14	countersunk flat head screw with hexalobular socket, (axle screw)
6-12	SF7970-L/AL*	SF7971-L/AL*	SF7972-L/AL*	SF7973-L/AL*	SF7975-L/AL*	functional unit plug + go modularity, left lateral or right medial*
6-12	SF7970-R/AL*	SF7971-R/AL*	SF7972-R/AL*	SF7973-R/AL*	SF7975-R/AL*	functional unit plug + go modularity, left medial or right lateral*

* For a conversion from the NEURO CLASSIC with plug + go modularity, this longer bearing nut is required in addition to the functional unit (see item 1).

Spare Parts for the System Joint without Feather Keys

Item	Article Number for System Width 16mm	20mm	Description
1	SB9669-L0760*	SB1069-L0960*	bearing nut*
4	SH0813-ST	SH0815-ST	upper part without feather keys, straight, steel
4	SH0813-TI	SH0815-TI	upper part without feather keys, straight, titanium
4	SH0833-ST	SH0835-ST	upper part without feather keys, bent inwards, steel
4	SH0833-TI	SH0835-TI	upper part without feather keys, bent inwards, titanium
4	SH0833-8/ST	SH0835-8/ST	upper part without feather keys, bent outwards, steel
4	SH0833-8/TI	SH0835-8/TI	upper part without feather keys, bent outwards, titanium
5	GS2210-**	GS2611-**	sliding washer**
6	SF0763-3L/AL	SF0765-3L/AL	cover plate, left lateral or right medial
6	SF0763-3R/AL	SF0765-3R/AL	cover plate, left medial or right lateral
7	SC2011-L05	SC2011-L05	pressure screw
8	FE2945-01	FE2966-02	coil spring, golden
9	SF0843-10	SF0845-10	pin
10	KU1005-ST	KU1005-ST	ball
11	SC1405-L12	SC1416-L14	countersunk flat head screw with hexalobular socket
12	SC1405-L12	SC1416-L14	countersunk flat head screw with hexalobular socket (axle screw)
6-12	SF7983-L/AL*	SF7985-L/AL*	functional unit plug + go modularity, left lateral or right medial*
6-12	SF7983-R/AL*	SF7985-R/AL*	functional unit plug + go modularity, left medial or right lateral*

* For a conversion from the NEURO CLASSIC with plug + go modularity, this longer bearing nut is required in addition to the functional unit (see item 1).

Feather Key Set

Item	Article Number for System Width 10mm	12mm	14mm	16mm	20mm	Description	Unit
w/o fig.	SF0390	SF0391	SF0392	SF0393	SF0395	feather key set	set

➡ The feather key set contains two feather keys with pin and the outer assembly/lamination dummy to make pressing easier. You can order the set if the feather keys have to be exchanged.

** Sliding Washers

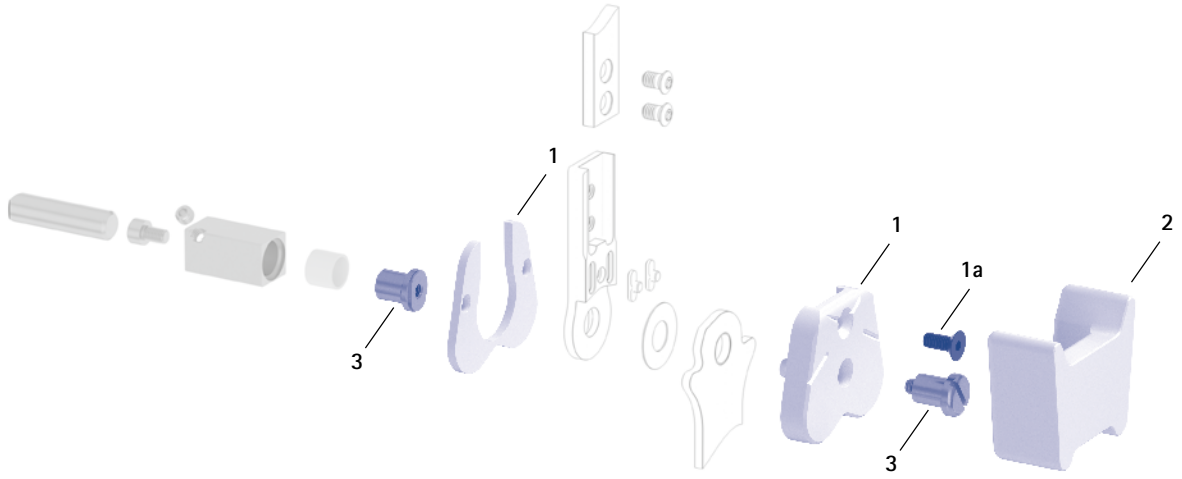
Article Number for System Width 10mm	12mm	14mm	16mm	20mm
Ø = 12mm	Ø = 14mm	Ø = 20mm	Ø = 22mm	Ø = 26mm
GS1206-040	GS1407-040	GS2009-040	GS2210-040	GS2611-040
GS1206-045	GS1407-045	GS2009-045	GS2210-045	GS2611-045
GS1206-050	GS1407-050	GS2009-050	GS2210-050	GS2611-050
GS1206-055	GS1407-055	GS2009-055	GS2210-055	GS2611-055
GS1206-060	GS1407-060	GS2009-060	GS2210-060	GS2611-060

The last three digits of the article number stand for the thickness of the sliding washer, e.g. GS1407-040. The thickness of this sliding washer is 0.40mm. In total, the sliding washers are available in five different thicknesses. The thickness of a sliding washer is indicated by the markings. For example, a sliding washer with two notches is 0.40mm thick, whereas a sliding washer with one notch is 0.55mm thick.

0.40mm 0.45mm 0.50mm 0.55mm 0.60mm

➡ You will find system stirrups on catalogue page A30.9f.
➡ You will find the system side bars and system anchors on catalogue page I1ff.

Assembly/Lamination Dummies, Shaping Dummy and Joint Retainers (1, 2, 3)



Assembly/Lamination Dummies, Shaping Dummy and Joint Retainers

Item	Article Number for System Width 10mm	12mm	14mm	16mm	20mm	Description	Unit
1	SF0950-LR1	SF0951-LR1	SF0952-LR1	SF0953-LR1	SH0985-LR1	assembly/lamination dummy, two parts (2 dummies with screw)	set
1a	SC1053-L08	SC1054-L10	SC1055-L12	SC1055-L12	SC1056-L14	countersunk flat head screw with hexagon socket	piece
2	SF0950-LR2	SF0951-LR2	SF0952-LR2	SF0953-LR2	SF0955-5LR2	shaping dummy	piece
3	PE1010-01/LR	PE1011-01/LR	PE1012-LR	PE1013-LR	PE1025-LR	joint retainer	piece
	2/Z	2/Z	4/B	5/C	7/C	laser marking	-

➡ Assembly/lamination dummies are included in the scope of delivery of the system joints.

➡ You will find an overview of our tools on catalogue page J1ff.

➡ You will also find the joint retainers and the corresponding laser markings in the tool case on the catalogue pages J15 and J16.

Cover Plate Pressing Aid for the System Joint with Feather Keys

Item	Article Number for System Width 10mm	12mm	14mm	16mm	20mm	Description	Unit
4	WE5000-SF	WE5001-SF	WE5002-SF	WE5002-SF	WE5002-SF	cover plate pressing aid (pressing screw and washer)	set

Cover Plate Pressing Aid for the System Joint without Feather Keys

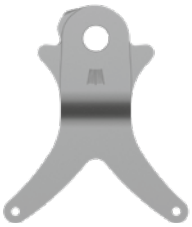
Item	Article Number for System Width 10mm	12mm	14mm	16mm	20mm	Description	Unit
4	-	-	-	WE5002-SF	WE5007-SF	cover plate pressing aid (pressing screw and washer)	set

➡ The cover plate pressing aid is included in the scope of delivery of the system joints.

Cover Plate Pressing Aid (4)

rivet stirrup

lamination/prepreg stirrup



thermoformage stirrup

side view

General Measures of the System Stirrups

Measure [mm]	System Width 10mm	12mm	14mm	16mm	20mm
thickness	2.0	2.0	2.5	3.0	3.0
neck width	16.0	19.4	23.2	26.6	30.8
bore hole diameter	6.0	7.0	8.5	9.6	10.5

Bent

Description	Leg Side	Unit	Article Number and Measures for System Width 10mm	12mm	14mm	16mm	20mm
rivet stirrup	left lateral or right medial	piece	FH3070-L/ST3	FH3071-L/ST3	FH3082-L/ST4	FH3093-L/ST4	FH3015-L/ST5
	left medial or right lateral		FH3070-R/ST3	FH3071-R/ST3	FH3082-R/ST4	FH3093-R/ST4	FH3015-R/ST5
length from the middle of the bore hole [mm]			104	112	124	144	166
weight [g]			32	42	70	111	141
lamination/prepreg stirrup	left lateral or right medial	piece	FH3170-L/ST1	FH3171-L/ST1	FH3182-L/ST1	FH3193-L/ST1	FH3115-L/ST1
	left medial or right lateral		FH3170-R/ST1	FH3171-R/ST1	FH3182-R/ST1	FH3193-R/ST1	FH3115-R/ST1
length from the middle of the bore hole [mm]			30	39	50	58	68
weight [g]			10	17	33	53	71
thermoformage stirrup	left lateral or right medial	piece	FH3270-L/ST2	FH3271-L/ST2	FH3282-L/ST2	FH3293-L/ST2	FH3215-L/ST3
	left medial or right lateral		FH3270-R/ST2	FH3271-R/ST2	FH3282-R/ST2	FH3293-R/ST2	FH3215-R/ST3
length from the middle of the bore hole [mm]			49	54	61	67	73
weight [g]			14	20	34	53	66

rivet stirrup

lamination/prepreg stirrup

thermoformage stirrup

shoe caliper plate stirrup*

Straight

Description	Unit	Article Number and Measures for System Width				
		10mm	12mm	14mm	16mm	20mm
rivet stirrup	piece	FH3070-ST/3	FH3071-ST/3	FH3082-ST/4	FH3093-ST/4	FH3015-ST/5
length from the middle of the bore hole [mm]		105	113	125	145	165
weight [g]		32	42	70	111	141
lamination/prepreg stirrup	piece	FH3170-ST/1	FH3171-ST/1	FH3182-ST/1	FH3193-ST/1	FH3115-ST/1
length from the middle of the bore hole [mm]		31	40	51	59	69
weight [g]		10	17	33	53	71
thermoformage stirrup	piece	FH3270-ST/2	FH3271-ST/2	FH3282-ST/2	FH3293-ST/2	FH3215-ST/3
length from the middle of the bore hole [mm]		50	55	62	68	74
weight [g]		14	20	34	53	66
shoe caliper plate stirrup	piece	-	-	-	FB7553-ST/5	FB7555-ST/6
length from the middle of the bore hole [mm]		-	-	-	165	185
weight [g]		-	-	-	92	106
insertion width* [mm]		-	-	-	22	22

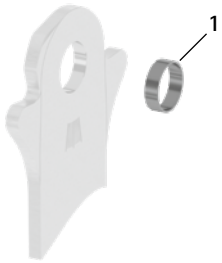
* The insertion width of the shoe caliper plate stirrup is equivalent to its insertion width.

Spare Parts System Stirrup

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
1	BP0706-L020	BR0807-L020	BR1009-L025	BR1110-L030	BR1211-L030	sliding bushing

➡ All system stirrups of the NEURO CLASSIC-SPRING system ankle joint are delivered with an integrated sliding bushing.

Spare Parts System Stirrup



Information for Processing

Rivet Stirrup:

➡ This system stirrup is riveted to the foot piece.

Lamination/Prepreg Stirrup:

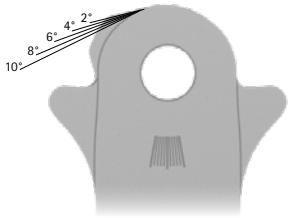
➡ This system stirrup is embedded into the laminate of the foot piece.

Thermoformage Stirrup:

➡ This system stirrup is embedded into thermoformable plastics, but can be embedded into laminates as well.

Shoe Caliper Plate Stirrup:

➡ This system stirrup is inserted into shoe plates.



➡ The system stirrup is marked with lines in the head area which serve as orientation for precisely filing the stirrup to the desired dorsiflexion stop.

➡ Range of motion in plantar flexion up to a maximum of 15°.

➡ The system stirrup is marked with lines in the neck area in order to read the joint angle.