NEURO CLASSIC

	Dorsiflexion Stop	Plantar Flexion Stop	Dorsiflexion Stop	Plantar Flexion Stop
Main Function	none free moving system stirrup	none free moving system stirrup	static static system stirrup	static static system stirrup
Adjustment Options			fileable	fileable
Other Functions			none by filing	none by filing

The NEURO CLASSIC system ankle joint can be used as a supporting joint for system ankle joints with plug + go modularity and as a supporting joint for NEURO CLASSIC-SPRING and NEURO CLASSIC-SWING.

When used as a supporting joint, the NEURO CLASSIC system ankle joint combined with the corresponding system stirrup can be converted into the main joint by exchanging the cover plate for the respective functional unit/cover plate.

plug+go MODULARITY

The NEURO CLASSIC system ankle joint with plug + go modularity can be converted into the NEURO SWING, NEURO SWING-CLASSIC, NEURO VARIO-CLASSIC 2, NEURO VARIO 2, NEURO VARIO-SPRING 2, NEURO VARIO-SWING, NEURO SWING 2 and NEURO HiSWING system ankle joints by exchanging the functional unit and the bearing nut and in the case of the NEURO HiSWING by mounting the spirit level as well. 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.

System Ankle Joints NEURO CLASSIC

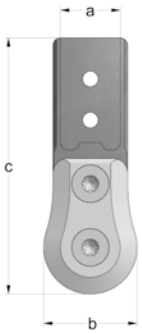
10mm 12mm 14mm 16mm 20mm 24mm

Joint Dimensions [mm]

Dimension	Description	System Width a					
		10mm	12mm	14mm	16mm	20mm	24mm
b	joint head width	13	17	22	25	28	31
c	joint height	40	50	62.5	68.5	74	88
	joint thickness	8	9	10	11.5	12	18

Joint Weights [g]

Material	Unit	System Width					
		10mm	12mm	14mm	16mm	20mm	24mm
steel	piece	15	28	43	60	85	-
titanium	piece	-	19	30	41	56	104



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

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

➡ Please order system stirrups and system side bars/anchors separately.
➡ You will find system stirrups on catalogue page A10.9ff.
➡ 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	Unit	Article Number for System Width					
			10mm	12mm	14mm	16mm	20mm	24mm
steel	left or right	piece	SF1200-ST/LR	SF1201-ST/LR	SF1202-ST/LR	SF1203-ST/LR	SF1205-ST/LR	-
titanium	left or right	piece	-	SF1201-TI/LR	SF1202-TI/LR	SF1203-TI/LR	SF1205-TI/LR	SF1207-TI/LR

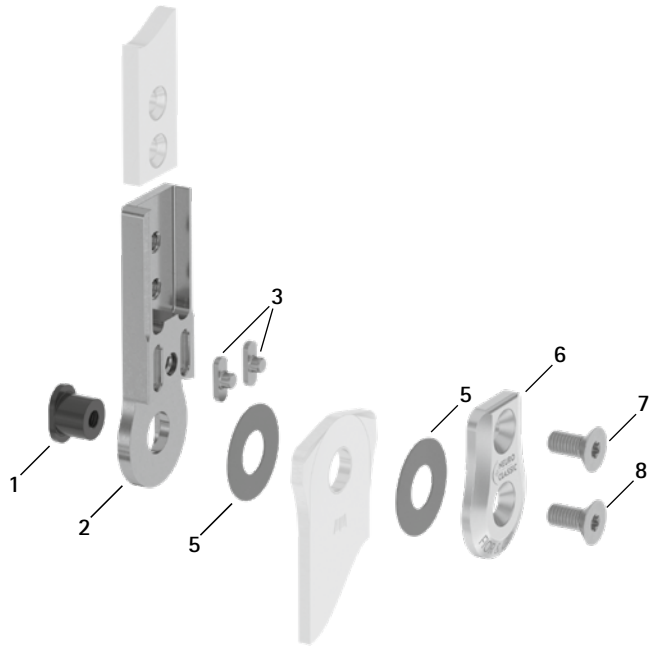
Bent Inwards (Fig. 2)

Material	Leg	Unit	Article Number for System Width					
			10mm	12mm	14mm	16mm	20mm	24mm
steel	left or right	piece	SF1220-ST/LR	SF1221-ST/LR	SF1222-ST/LR	SF1223-ST/LR	SF1225-ST/LR	-
titanium	left or right	piece	-	SF1221-TI/LR	SF1222-TI/LR	SF1223-TI/LR	SF1225-TI/LR	SF1227-TI/LR

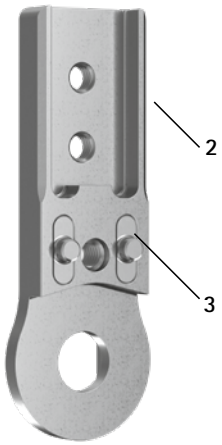
Bent Outwards (Fig. 3)

Material	Leg	Unit	Article Number for System Width					
			10mm	12mm	14mm	16mm	20mm	24mm
steel	left or right	piece	SF1240-ST/LR	SF1241-ST/LR	SF1242-ST/LR	SF1243-ST/LR	SF1245-ST/LR	-
titanium	left or right	piece	-	SF1241-TI/LR	SF1242-TI/LR	SF1243-TI/LR	SF1245-TI/LR	SF1247-TI/LR

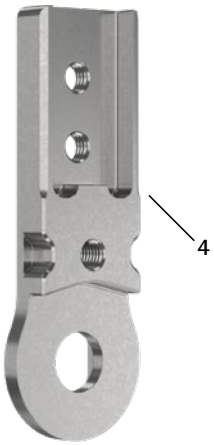
Spare Parts



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-L0480	SB7049-L0540	SB8559-L0580	SB9669-L0710	SB1069-L0760	bearing nut, short
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	SF0160-AL	SF0161-AL	SF0162-AL	SF0163-AL	SF0165-AL	cover plate
7	SC1403-L08	SC1404-L08	SC1405-L10	SC1405-L11	SC1405-L12	countersunk flat head screw with hexalobular socket
8	SC1403-L08	SC1404-L08	SC1405-L10	SC1405-L11	SC1406-L12	countersunk flat head screw with hexalobular socket (axle screw)
1, 6–8	SF1970-AL	SF1971-AL	SF1972-AL	SF1973-AL	SF1975-AL	functional unit plug + go modularity

Spare Parts for the System Joint without Feather Keys

Item	Article Number for System Width 16mm	20mm	24mm	Description
1	SB9669-L0710	SB1069-L0760	SB1262-L1190	bearing nut, short
4	SH0813-ST	SH0815-ST	-	upper part without feather keys, straight, steel
4	SH0813-TI	SH0815-TI	SF0317-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	SF0337-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	SF0337-8/TI	upper part without feather keys, bent outwards, titanium
5	GS2210-*	GS2611-*	GS3013-*	sliding washer*
6	SF0163-3/AL	SF0165-3/AL	SF0167-3/AL	cover plate
7	SC1405-L11	SC1416-L10	SC1416-L16	countersunk flat head screw with hexalobular socket
8	SC1405-L11	SC1416-L10	SC1416-L16	countersunk flat head screw with hexalobular socket (axle screw)
1, 6–8	SF1983-AL	SF1985-AL	SF1987-AL	functional unit plug + go modularity

* Sliding Washers

Article Number for System Width 10mm	12mm	14mm	16mm	20mm	24mm
Ø = 12mm	Ø = 14mm	Ø = 20mm	Ø = 22mm	Ø = 26mm	Ø = 30mm
GS1206-040	GS1407-040	GS2009-040	GS2210-040	GS2611-040	GS3013-040
GS1206-045	GS1407-045	GS2009-045	GS2210-045	GS2611-045	GS3013-045
GS1206-050	GS1407-050	GS2009-050	GS2210-050	GS2611-050	GS3013-050
GS1206-055	GS1407-055	GS2009-055	GS2210-055	GS2611-055	GS3013-055
GS1206-060	GS1407-060	GS2009-060	GS2210-060	GS2611-060	GS3013-060

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

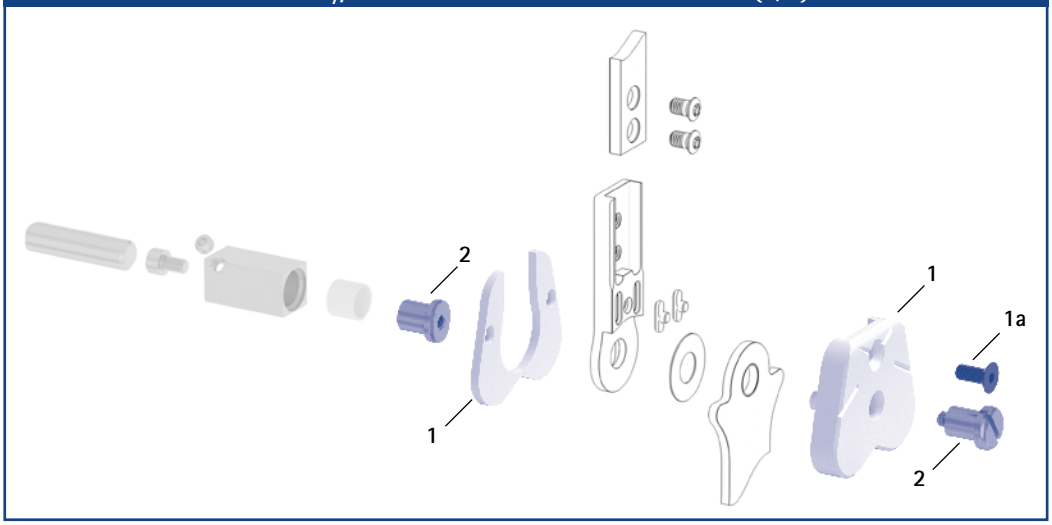
Feather Key Set

Item	Article Number for System Width 10mm	12mm	14mm	16mm	20mm	24mm	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.

➡ You will find system stirrups on catalogue page A10.9ff.
➡ You will find the system side bars and system anchors on catalogue page I1ff.

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



Cover Plate Pressing Aid (3)

Assembly/Lamination Dummies and Joint Retainers

Item	Article Number for System Width 10mm	12mm	14mm	16mm	20mm	24mm	Description	Unit
1	SF0950-LR1	SF0951-LR1	SF0952-LR1	SF0953-LR1	SH0985-LR1	SF0957-LR1	assembly/lamination dummy, two parts (2 dummies with screw)	set
1a	SC1053-L08	SC1054-L10	SC1055-L12	SC1055-L12	SC1056-L14	SC1056-L16	countersunk flat head screw with hexagon socket	piece
2	PE1010-01/LR	PE1011-01/LR	PE1012-LR	PE1013-LR	PE1025-LR	PE1127-LR	joint retainer	piece
	1/Y	2/Z	4/B	5/C	7/C	11/D	laser marking	-

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

➡ 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	24mm	Description	Unit
3	WE5000-SF	WE5001-SF	WE5002-SF	WE5002-SF	WE5002-SF	-	cover plate pressing aid (pressing screw and washer)	set

* System joints without feather keys do not need a cover plate pressing aid.

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

➡ You will find an overview of our tools on catalogue page J1.

System Stirrups NEURO CLASSIC – Bent, Free Moving

rivet stirrup

lamination/prepreg stirrup

thermoformage stirrup

side view

General Measures of the System Stirrups

Measure [mm]	System Width 10mm	12mm	14mm	16mm	20mm	24mm
thickness	2.0	2.0	2.5	3.0	3.0	4.5
neck width	16.0	19.4	23.2	26.6	30.8	31
bore hole diameter	6.0	7.0	8.5	9.6	10.5	12.5

Bent, Free Moving

Description	Leg/Leg Side	Unit	Article Number and Measures for System Width 10mm	12mm	14mm	16mm	20mm	24mm
rivet stirrup	left or right	piece	FB1070-LR/ST3	FB1071-LR/ST3	FB1082-LR/ST4	FB1093-LR/ST4	FB1015-LR/ST5	-
length from the middle of the bore hole [mm]			104	112	124	144	164	-
weight [g]			32	41	68	109	137	-
lamination/prepreg stirrup	left lateral or right medial	piece	FB1170-L/ST1	FB1171-L/ST1	FB1182-L/ST1	FB1193-L/ST1	FB1115-L/ST1	FB1137-L/TI2
	left medial or right lateral		FB1170-R/ST1	FB1171-R/ST1	FB1182-R/ST1	FB1193-R/ST1	FB1115-R/ST1	FB1137-R/TI2
length from the middle of the bore hole [mm]			30	39	50	58	68	71
weight [g]			9	15	30	49	64	65
thermoformage stirrup	left or right	piece	FB1270-LR/ST2	FB1271-LR/ST2	FB1282-LR/ST2	FB1293-LR/ST2	FB1215-LR/ST3	FB1237-LR/TI4
length from the middle of the bore hole [mm]			49	54	61	67	73	74
weight [g]			13	19	32	49	60	60

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

➡ You will find the sliding bushings on catalogue page A10.12.

rivet stirrup

lamination/prepreg stirrup

thermoformage stirrup

side view

Bent, Static

Description	Leg/Leg Side	Unit	Article Number and Measures for System Width					
			10mm	12mm	14mm	16mm	20mm	24mm
rivet stirrup	left or right	piece	FB2070-LR/ST3	FB2071-LR/ST3	FB2082-LR/ST4	FB2093-LR/ST4	FB2095-LR/ST5	-
length from the middle of the bore hole [mm]			104	112	124	144	164	-
weight [g]			33	43	70	111	141	-
lamination/prepreg stirrup	left lateral or right medial	piece	FB2170-L/ST1	FB2171-L/ST1	FB2182-L/ST1	FB2193-L/ST1	FB2195-L/ST1	FB2137-L/TI2
	left medial or right lateral		FB2170-R/ST1	FB2171-R/ST1	FB2182-R/ST1	FB2193-R/ST1	FB2195-R/ST1	FB2137-R/TI2
length from the middle of the bore hole [mm]			30	39	50	58	68	71
weight [g]			10	17	32	56	68	67
thermoformage stirrup	left or right	piece	FB2270-LR/ST2	FB2271-LR/ST2	FB2282-LR/ST2	FB2293-LR/ST3	FB2295-LR/ST3	FB2237-LR/TI4
length from the middle of the bore hole [mm]			49	54	61	67	73	74
weight [g]			14	20	34	53	65	62

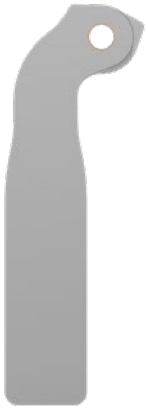
System Stirrups NEURO CLASSIC – Straight, Static

rivet stirrup

lamination/prepreg stirrup

thermoformage stirrup

shoe caliper plate stirrup*



Borggreve stirrup**

Straight, Static

Description	Unit	Article Number and Measures for System Width					
		10mm	12mm	14mm	16mm	20mm	24mm
rivet stirrup	piece	FB2070-ST/3	FB2071-ST/3	FB2082-ST/4	FB2093-ST/4	FB2095-ST/5	-
length from the middle of the bore hole [mm]		105	113	125	145	165	-
weight [g]		33	43	70	111	141	-
lamination/prepreg stirrup	piece	FB2170-ST/1	FB2171-ST/1	FB2182-ST/1	FB2193-ST/1	FB2195-ST/1	-
length from the middle of the bore hole [mm]		31	40	51	59	69	-
weight [g]		10	17	32	56	68	-
thermoformage stirrup	piece	FB2270-ST/2	FB2271-ST/2	FB2282-ST/2	FB2293-ST/3	FB2295-ST/3	-
length from the middle of the bore hole [mm]		50	55	62	68	74	-
weight [g]		14	20	34	53	65	-
shoe caliper plate stirrup	piece	-	-	FB1542-ST/4	FB1553-ST/5	FB1555-ST/6	-
length from the middle of the bore hole [mm]		-	-	145	165	185	-
weight [g]		-	-	59	93	106	-
insertion width* [mm]		-	-	19	22	22	-
Borggreve stirrup**	piece	-	FB9071-ST/3	FB9082-ST/4	FB9093-ST/4	FB9095-ST/5	FB9037-L/TI7 FB9037-R/TI7
length from the middle of the bore hole [mm]		-	113	125	145	165	193
weight [g]		-	42	71	112	143	137

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

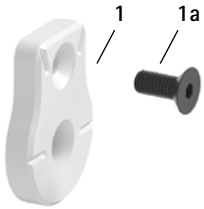
** for treating patients with Borggreve rotationplasty (system stirrup geometry designed in collaboration with the Department of Orthopaedics of the Heidelberg University Literature: Janßen E., Design Criteria for Prosthetic Management of Rotation-Arthroplasty, Orthopädie-Technik 11/2002)

Assembly/Lamination Dummy for the Borggreve Stirrup***

Item	Article Number for System Width						Description	Unit
	10mm	12mm	14mm	16mm	20mm	24mm		
1	-	SF0911-LR***	SF0912-LR***	SF0913-LR***	SF0915-LR***	SF0917-LR***	assembly/lamination dummy (1 dummy with screw)***	piece
1a	-	SC1054-L10	SC1055-L12	SC1055-L12	SC1055-L12	SC1056-L14	countersunk flat head screw with hexagon socket	piece

*** This assembly/lamination dummy is required in combination with a Borggreve stirrup and and is included in your order of the stirrup.

Assembly/Lamination Dummy

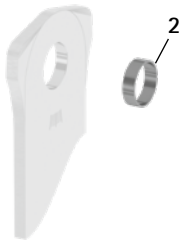


Spare Parts System Stirrup

Item	Article Number for System Width						Description
	10mm	12mm	14mm	16mm	20mm	24mm	
2	BP0706-L020	BR0807-L020	BR1009-L025	BR1110-L030	BR1211-L030	BR1413-L070	sliding bushing

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

Spare Parts System Stirrup



Information for Processing

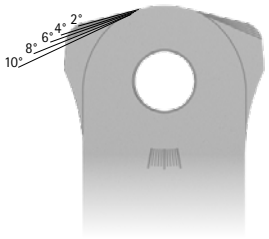
Rivet Stirrup:
➡ This system stirrup is riveted to the foot piece.

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.

Borggreve Stirrup:
➡ This system stirrup is used for the production of an ortho-prosthesis for treating a Borggreve rotationplasty.



➡ The system stirrup is marked with lines in the head area which serve as orientation for precisely filing the stirrup to the desired plantar and dorsiflexion stop.
➡ The system stirrup is marked with lines in the neck area in order to read the joint angle.

rivet stirrup

lamination/prepreg stirrup

thermoformage stirrup

side view

General Measures of the System Stirrups plug + go Modularity

Measure [mm]	System Width 10mm	12mm	14mm	16mm	20mm	24mm
thickness	2.0	2.0	2.5	3.0	3.0	4.5
neck width	16.0	19.4	23.2	26.6	30.8	32.5
bore hole diameter	6.0	7.0	8.5	9.6	10.5	12.5

Bent

Description	Leg/Leg Side	Unit	Article Number and Measures for System Width 10mm	12mm	14mm	16mm	20mm	24mm
rivet stirrup	left or right	piece	FB5070-LR/ST3	FB5071-LR/ST3	FB5082-LR/ST4	FB5093-LR/ST4	FB5015-LR/ST5	-
length from the middle of the bore hole [mm]			104	112	124	144	164	-
weight [g]			33	43	69	112	143	-
lamination/prepreg stirrup	left lateral or right medial	piece	FB5170-L/ST1	FB5171-L/ST1	FB5182-L/ST1	FB5193-L/ST1	FB5115-L/ST1	FB5137-L/TI2
	left medial or right lateral		FB5170-R/ST1	FB5171-R/ST1	FB5182-R/ST1	FB5193-R/ST1	FB5115-R/ST1	FB5137-R/TI2
length from the middle of the bore hole [mm]			28	40	54	64	68	71
weight [g]			10	16	32	53	70	78
thermoformage stirrup	left or right	piece	FB5270-LR/ST2	FB5271-LR/ST2	FB5282-LR/ST2	FB5293-LR/ST2	FB5215-LR/ST3	FB5237-LR/TI4
length from the middle of the bore hole [mm]			49	54	61	67	73	74
weight [g]			14	19	34	53	66	72

rivet stirrup

lamination/prepreg stirrup

thermoformage stirrup

Straight

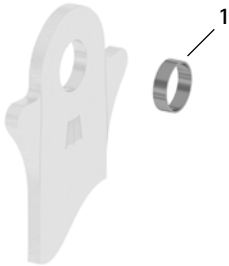
Description	Unit	Article Number and Measures for System Width					
		10mm	12mm	14mm	16mm	20mm	24mm
rivet stirrup	piece	FB5070-ST/3	FB5071-ST/3	FB5082-ST/4	FB5093-ST/4	FB5015-ST/5	-
length from the middle of the bore hole [mm]		105	113	125	145	165	-
weight [g]		33	43	69	112	143	-
lamination/prepreg stirrup	piece	FB5170-ST/1	FB5171-ST/1	FB5182-ST/1	FB5193-ST/1	FB5115-ST/1	-
length from the middle of the bore hole [mm]		29	41	55	65	69	-
weight [g]		10	16	32	53	70	-
thermoformage stirrup	piece	FB5270-ST/2	FB5271-ST/2	FB5282-ST/2	FB5293-ST/2	FB5215-ST/3	-
length from the middle of the bore hole [mm]		50	55	52	68	74	-
weight [g]		14	19	34	53	66	-

Spare Parts System Stirrup

Item	Article Number for System Width						Description
	10mm	12mm	14mm	16mm	20mm	24mm	
1	BP0706-L020	BR0807-L020	BR1009-L025	BR1110-L030	BR1211-L030	BR1413-L070	sliding bushing

➡ All system stirrups plug + go modularity of the NEURO CLASSIC 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.

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