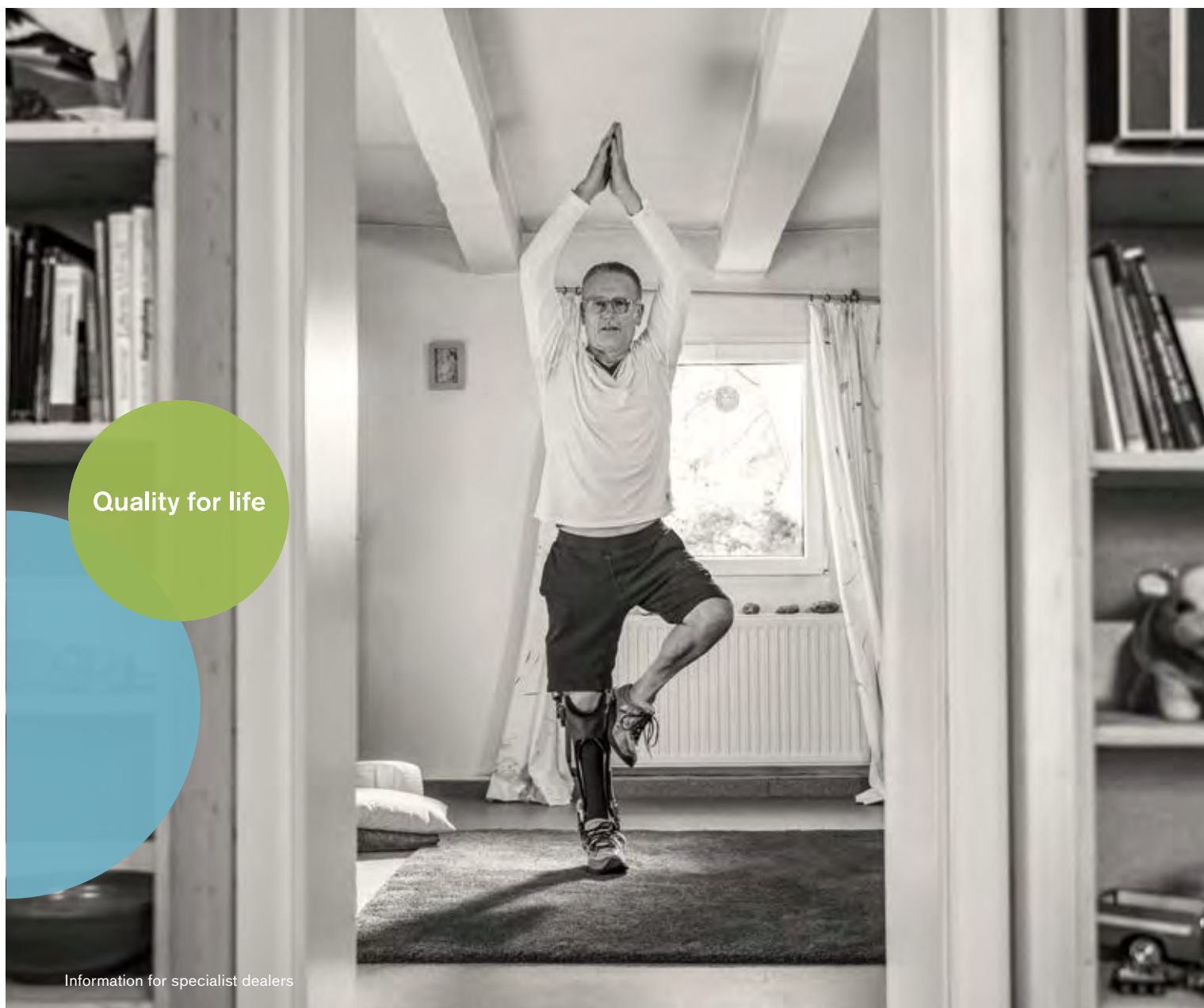


# NeuroOrthopaedics



Quality for life





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"Our objective is to offer maximum mobility, independence and normality to people with physical disabilities. This means all our products have to be judged by the functionality they offer users."

Prof. Hans Georg Näder,  
Chairperson of the Management Board,  
Ottobock SE & Co. KGaA

## A changing company

Ottobock develops medical technology products and high quality fitting concepts for people with limited mobility. Driven by a decisive, pioneering spirit, prosthetist Otto Bock founded the Orthopädische Industrie GmbH company in Berlin in 1919. He had the courage to break new ground and set higher standards that would ultimately revolutionise an entire industry. Under the leadership of his son-in-law, Dr. Max Näder, Ottobock grew from a national to an international company. Thanks to his creativity and inventive talent, Max Näder continued to set standards in orthopaedic technology with the development of products such as the modular leg prosthesis system and the myoelectrically-controlled upper limb prosthesis. The company began to establish an international network in 1958, when the first foreign branch was founded in the US. Professor Hans Georg Näder has pursued a consistent, dynamic approach to continue driving this growth, with the result that Ottobock is now a global player and a strong corporate brand. In all aspects of our business, people are always our number one priority: we are committed to helping everyone achieve maximum mobility, independence and quality of life.

Ottobock SE & Co. KGaA is simultaneously a family business and a modern, customer and success-oriented company. A network of sales and service companies in 58 countries ensures that we are close to our customers. This helps us understand user needs and customer requirements and integrate these aspects into the products we develop. With the business areas of Prosthetics, Orthotics, NeuroRehabilitation, Human Mobility (wheelchairs and rehabilitation devices), MedicalCare and Industrials, the broad-based company is capable of offering its customers a nearly unparalleled range of products, coordinated system solutions and extensive services.

We take responsibility for improving the quality of life of people with disabilities by creating solutions that are functionally and technologically outstanding – both now and into the future. The role played by high-quality materials is just as essential as expert craftsmanship when it comes to providing fittings for people with physical limitations. Only the fitting team which attends to the patient personally can determine the patient's overall needs and establish the requirements for a custom orthosis on this basis. One example would be a stroke patient who can only use one hand to put their orthosis on. For more information on paralysis fittings, please consult our reference "Designing orthotics for the lower limbs" (646B7) for medical specialists, therapists and O&P professionals. And get started now by choosing the components for your custom orthoses from the selection that follows.

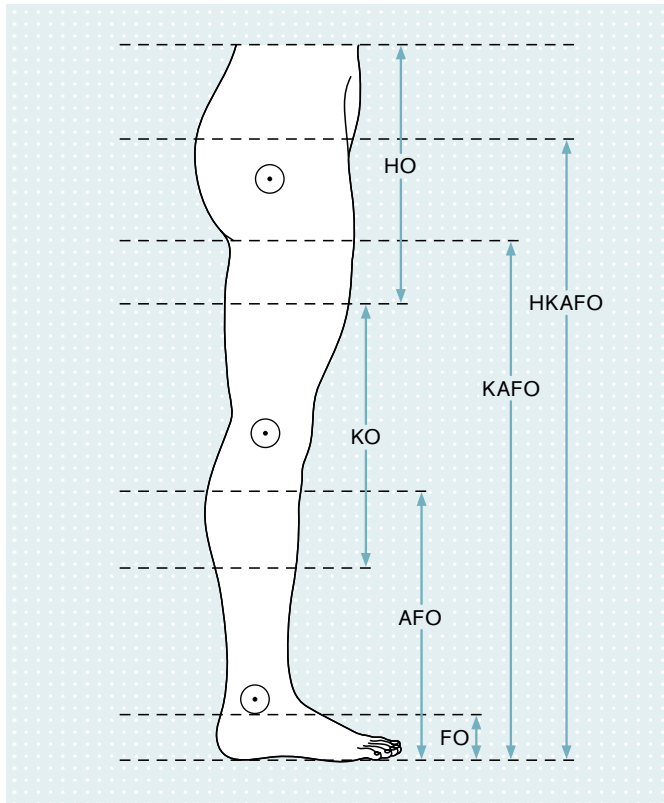
## Always at your service!

At Ottobock, we place great emphasis on CUSTOMER SERVICE. Our highly experienced representatives are standing by – ready to assist you with their comprehensive expertise, inform you about the latest developments and advise you on every aspect of our products. If you have a complex enquiry, our product experts and specialists from Fabrication will be delighted to help you. Our highly qualified sales team can assist with special technical solutions and their on-site implementation. We also offer end-to-end service plans.



# About this catalogue

## General orthotics

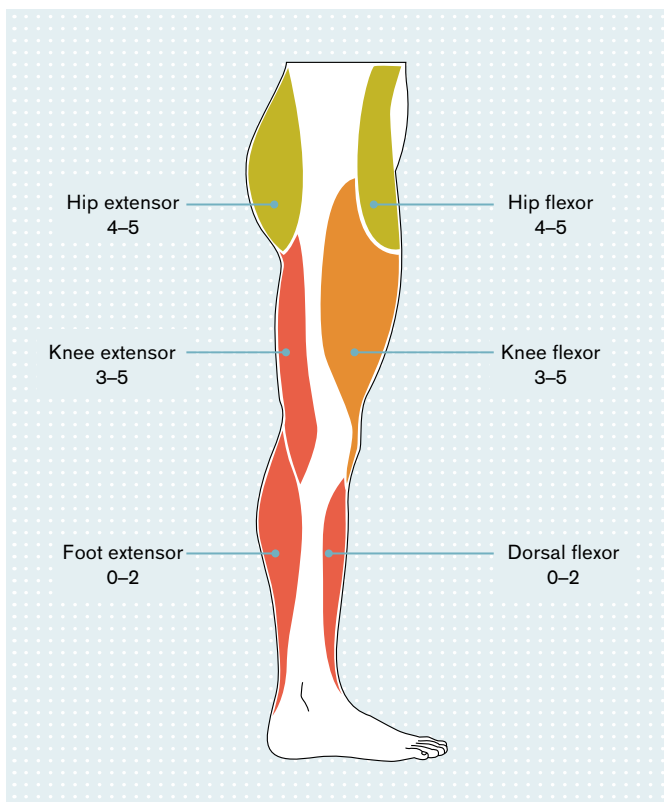


Global networking has also become important in the medical technology sector. In order to work with the same terminology internationally, the abbreviations of the English terms for the different types of orthoses are used.

These are already used in many countries in the corresponding fitting or device lists. Only the abbreviations common for the lower limbs are shown in the adjacent overview, but these are widely used for the entire locomotor system.

### Lower limb orthosis types

<b>HO</b>	Hip orthosis
<b>HKAFO</b>	Hip-knee-ankle-foot orthosis
<b>KAFO</b>	Knee-ankle-foot orthosis
<b>KO</b>	Knee orthosis
<b>AFO</b>	Ankle-foot orthosis
<b>FO</b>	Foot orthosis




### Muscle strength assessment according to Janda

0	No visible and/or palpable muscle contraction
1	Visible and/or palpable muscle contraction with no motor effect
2	Pronounced muscle tension, movement is possible if force of gravity is eliminated
3	Movement against gravity possible
4	Movement against low to medium resistance possible
5	Movement with normal strength

## Explanation of symbols

	Products suitable for children
	Recommended for lamination resin technique
	Recommended for prepreg technique
	Recommended for bar/clamp technique
	Recommended for thermoplastic technique
	Alignment insert, size 1
	Alignment insert, size 2
	Alignment insert, size 3
	Alignment insert, size 4
	Alignment insert, size 5
	Alignment insert, size 6
	Alignment insert, size 7
	Alignment insert, size 8
	Alignment insert, size 9
	Self-adhesive
	Two components: A-component, B-component
	Washable at 30 °C
	Washable at 40 °C
	Washable at 60 °C

## Symbol explanations for hazardous materials

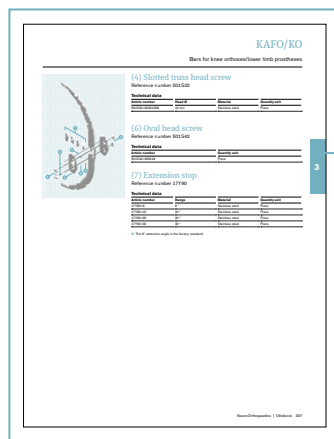
Hazard pictogram	Description
 GHS01 Exploding bomb	Explosive substances/mixtures and products with explosive materials: - Unstable, explosive - Subclasses 1.1, 1.2, 1.3, 1.4 Self-reactive substances and mixtures, type A Self-reactive substances and mixtures, type B (+ pictogram GHS02) Organic peroxides, type A Organic peroxides, type B (+ pictogram GHS02)
 GHS02 Flame	Flammable gases, hazard category 1 Aerosols, hazard categories 1, 2 Flammable liquids, hazard categories 1, 2, 3 Flammable solids, hazard categories 1, 2 Self-reactive substances and mixtures, types B (+ pictogram GHS01), C, D, E, F Pyrophoric liquids, hazard category 1 Pyrophoric solids, hazard category 1 Substances and mixtures capable of self-heating, hazard categories 1, 2 Substances and mixtures that release inflammable gases in combination with water, categories 1, 2, 3 Organic peroxides, types B (+ pictogram GHS01), C, D, E, F Substances and mixtures that release inflammable gases in combination with water, hazard categories 1, 2, 3
 GHS03 Flame over circle	Oxidising gases, category 1 Oxidising liquids, categories 1, 2, 3 Oxidising solids, categories 1, 2, 3
 GHS04 Gas cylinder	Gases under pressure: - compressed gases - liquefied gases - frozen liquefied gases - dissolved gases
 GHS05 Corrosion	Corrosive to metals, category 1 Corrosive/irritating effect on the skin, categories 1A, 1B, 1C Severe eye damage/eye irritation, category 1
 GHS06 Skull and crossbones	Acute toxicity (oral, dermal, inhalation), categories 1, 2, 3
 GHS07 Exclamation Mark	Acute toxicity (oral, dermal, inhalation), category 4 Irritating to skin, category 2 Severe eye irritation, category 2 Skin sensitisation, categories 1, 1A und 1B Specific target organ toxicity (one-time exposure), category 3 Respiratory sensitisation, category 3 narcotic effect Hazardous to the ozone layer, category 1
 GHS08 Health hazard	Respirator sensitisation, categories 1, 1A und 1B Germ cell mutagenicity, categories 1A, 1B, 2 Carcinogenicity, categories 1A, 1B, 2 Reproductive toxicity, categories 1A, 1B, 2 Specific target organ toxicity (one-time exposure), categories 1, 2 Specific target organ toxicity (repeated exposure), categories 1, 2 Aspiration hazard, category 1
 GHS09 Environment	Hazardous to water - acutely hazardous to water: category akute 1 - hazardous to water, long term: categories chronic 1, 2

The printed symbols for hazardous materials in the catalog correspond to the hazardous material labeling at the time of printing. These refer to the raw materials and provide an indication of dangerous classified products. Subject to changes. You can find more information on the hazard warnings in the corresponding Ottobock safety data sheet, which is available on request.



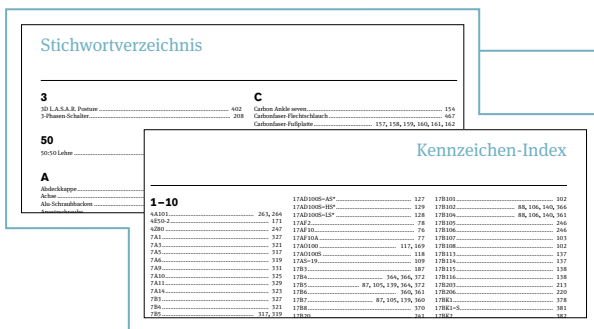
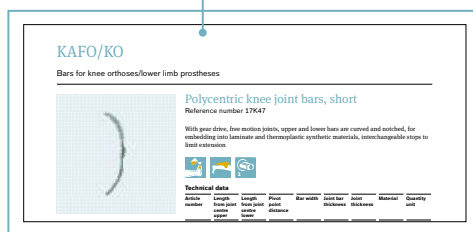
# About this catalogue

## Searching, finding and ordering

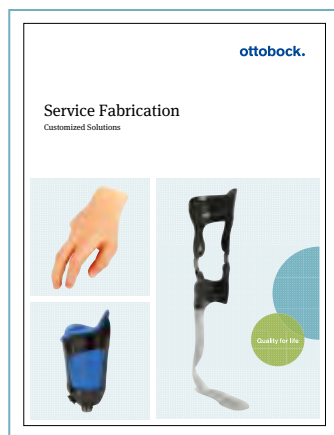


This catalogue is organised into sections.

Tabs on the right-hand page margins as well as the subtitles at the top of every page also serve as quick and easy reference guides.



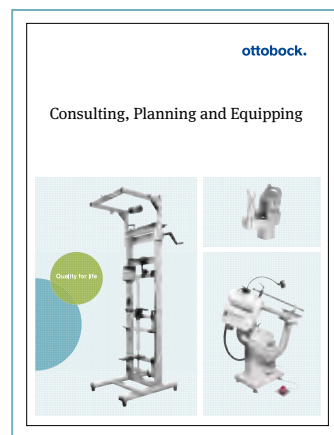
The list of keywords lists all products in alphabetical order. Alternatively, the index lets you find the page numbers for products by reference number.



Ottobock Service Fabrication offers custom orthotics products and services. These are listed in the catalogue 646K71.



For more information or to place orders for products in the materials category, please use the 646K1 Ottobock materials catalogue.



You can find more on individual solutions for specialist orthopedic technology companies in the "Consulting, Planning and Furnishing Catalog" (646K10).

**Name of product**

**Brief product description**

**Illustration of product**

**Available information material**

**Replacement parts graphic**

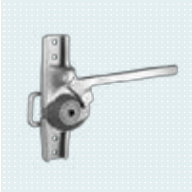
**ICONS for guidance**

**Product components which serve as spare parts for service and repair.**

### System knee joint

Reference number 17B44

Locked knee joint with adjustable Swiss lock for positioning orthoses.  
Flexion angle adjustment up to max. 16° knee flexion and 100 kg body weight possible in gait orthoses.  
Contoured medial joint, straight lateral joint, Swiss lock with flexion adjustment




**Information material**

646F596-EN_MASTER	Knee joints overview
647G43	17B44 instructions for use

**Technical data**

Article number	Side	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B44-L16	left (L)	16 mm	56 mm	38 mm	Stainless steel	Pair
17B44-R16	right (R)	16 mm	56 mm	38 mm	Stainless steel	Pair
17B44-L20	left (L)	20 mm	56 mm	38 mm	Stainless steel	Pair
17B44-R20	right (R)	20 mm	56 mm	38 mm	Stainless steel	Pair

**Icons for guidance:** 

**Spare parts for 17B44**

**(1) Knee cap ring plate**  
Reference number 17Y56

**Technical data**

Article number	Side	For system width	Material	Quantity unit
17Y56-L	left (L)	16 and 20 mm	Stainless steel	Piece
17Y56-R	right (R)	16 and 20 mm	Stainless steel	Piece

**(2) Lock lever**  
Reference number 17Y57

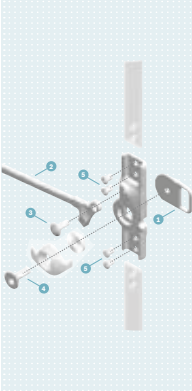
**Technical data**

Article number	Side	For system width	Material	Quantity unit
17Y57-L	left (L)	16 and 20 mm	Stainless steel	Piece
17Y57-R	right (R)	16 and 20 mm	Stainless steel	Piece

**(3) Oval head screw**  
Reference number 501A23

**Technical data**

Article number	Material	Quantity unit
501A23	Stainless steel	Piece





**Note: orthosis compendium**

Detailed explanations of the underlying illnesses relevant for custom orthotics, the biomechanics of standing and walking and the orthosis designs corresponding to the clinical pictures are found in our orthosis compendium for the lower extremity.

Article-No. 646B7=EN\_INT





# NeuroRehabilitation

1

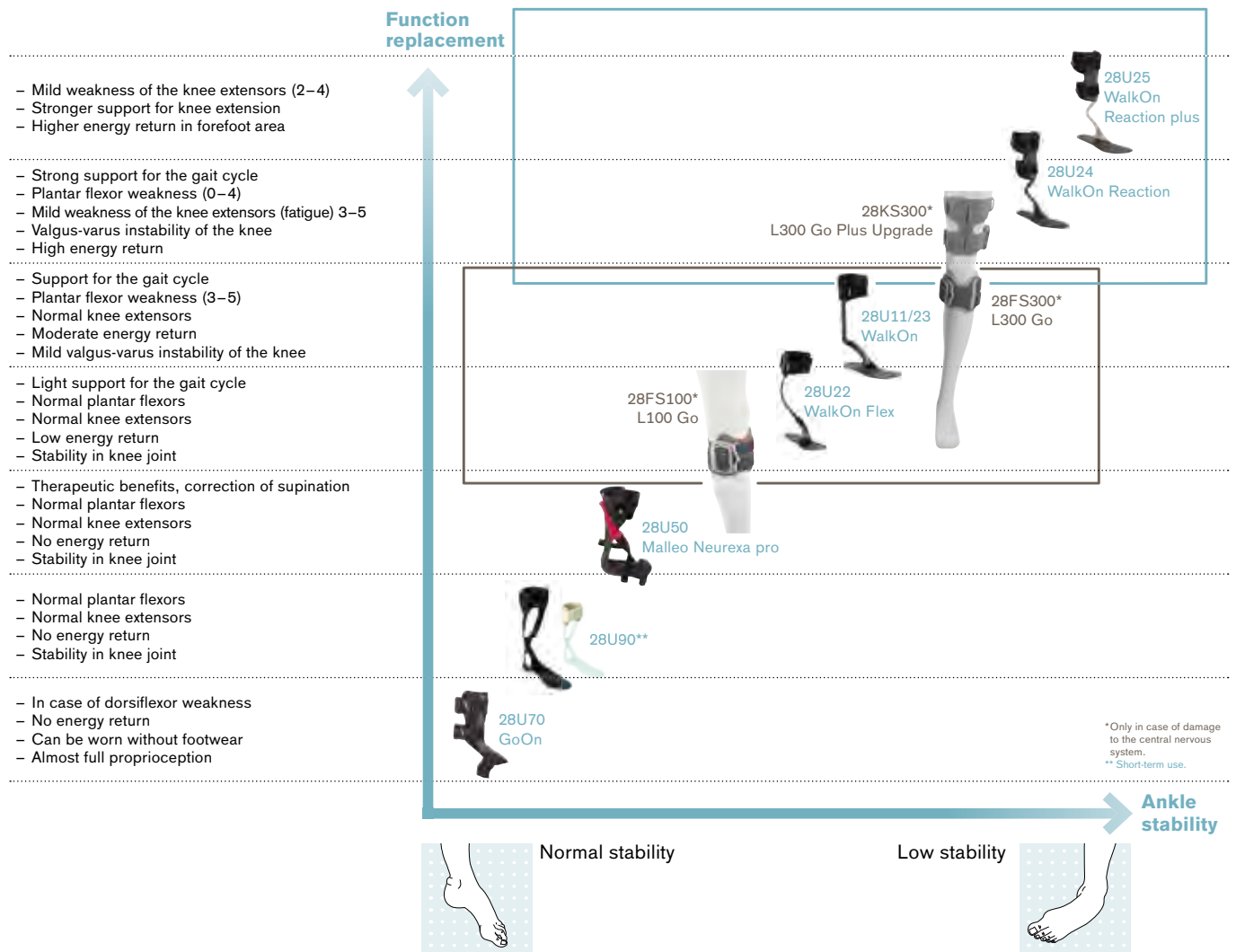
The frequency of neurological diseases has been increasing for years. According to an analysis by Deloitte, the specialist field of neurology will grow by 24.6% by 2030, which is the highest percentage growth in any medical specialist field (Deloitte 2016). The objective of NeuroRehabilitation is to avoid the resulting day-to-day limitations as far as possible through targeted measures, restore functions and thereby improve quality of life. However, improvements are not limited to a certain period of time but can be attained at virtually any time through treatments and applications. Devices can make a major contribution here. Lost and/or limited functions can be replaced, assisted or strengthened by devices. In the rehabilitation phase, a device can maintain and improve therapy results that have been achieved, support the patient's mobilisation or prevent early compensating movements on the part of the patient. In day-to-day life, devices help maintain rehabilitation results and promote the use of mobility that has been regained in specific situations. Ottobock offers numerous devices that have been developed especially for the particular needs of NeuroRehabilitation. This includes pre-fabricated, semi-finished products that are presented in this section. All components required for the fabrication of custom orthoses are also described in detail in this catalogue.



Visit **Ottobock Scandinavia professionals site** to obtain up-to-date product information at any time.

# NeuroRehabilitation

## Lower limb – Differentiation within the product portfolio





## GoOn

Reference number 28U70

Ankle foot orthosis for lifting the foot in neutral position

### Features and benefits

- Universal size (adult size)
  - One size fits all users
- Front support attached directly to the foot
  - Very secure, firm fit
- Spring elements made of individual filaments
  - Controlled lifting force, moderate guidance and torsion control of the foot
- Viscoelastic cushion
  - Minimised pressure on the top of the foot
- Easy handling and soft materials
  - High acceptance
- Dorsal spring construction
  - Can be worn with or without footwear, regardless of heel height. If the orthosis is worn without footwear, an additional hook-and-loop closure is required (included in the scope of delivery)
- Orthosis does not cover the heel and forefoot
  - High proprioception
- Easy to wash
  - Hygienic

### Information material

646D1127=EN_MASTER	28U70 information for practitioners
646D1249=EN_INT	Lower limb stroke information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
647G1225=ALL_INT	28U70 Instructions for use

### Indications

- Drop foot caused by
  - Fatigue syndrome
  - Problems with balance
  - Dementia
  - Parkinson's disease
  - Stroke
  - Traumatic brain injury
  - Multiple sclerosis
  - Neural muscular atrophy
  - Peroneal paralysis (paresis)

### Modes of action

- Light support for drop foot

### Technical data

Article number	For size
28U70	Universal



# NeuroRehabilitation

Lower limb

## Spare parts for 28U70



### Pad for GoOn incl. straps and Y-hook-and-loop

Reference number 29U70

#### Technical data

Article number	Spare part for	Size
29U70	28U70 GoOn	Universal



### Y-hook-and-loop

Reference number 29U25

#### Technical data

Article number	Spare part for	Size	Quantity unit
29U25=2	28U70 GoOn	2	Piece



### Viscoelastic pressure pad

Reference number 29U74

#### Technical data

Article number	Spare part for	Size
29U74	28U70 GoOn	Universal



## Ankle-foot orthosis

Reference number 28U90

Ankle-foot orthosis for lifting the foot in neutral position.

### Features and benefits

- Thin-walled design
  - Inconspicuous under clothing and in the shoe
- Long sole
  - Precise guidance of the foot, sole can be shortened as needed
- Low weight
  - No added strain
- Calf pad, easy to remove and washable
  - Good wearer comfort
- Pad with strap suitable for left-hand or right-hand use
  - Straightforward adaptation to the patient

### Indications

- Drop foot caused by
  - Peroneal paralysis (paresis)
  - Stroke
  - Traumatic brain injury
  - Multiple sclerosis
  - Neural muscular atrophy

### Modes of action

- Passive, flexible limitation of plantar flexion
- Dynamically returns the foot to the neutral position

### Information material

646D1249=EN_INT	Lower limb stroke information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
647G955=ALL_INT	28U90 instructions for use

### Technical data



Article number	Shoe size	Side	Colour
28U90=L35-37-0	35 - 37	left (L)	Beige
28U90=R35-37-0	35 - 37	right (R)	Beige
28U90=L35-37-7	35 - 37	left (L)	Black
28U90=R35-37-7	35 - 37	right (R)	Black
28U90=L37-39-0	37 - 39	left (L)	Beige
28U90=R37-39-0	37 - 39	right (R)	Beige
28U90=L37-39-7	37 - 39	left (L)	Black
28U90=R37-39-7	37 - 39	right (R)	Black
28U90=L39-41-0	39 - 41	left (L)	Beige
28U90=R39-41-0	39 - 41	right (R)	Beige
28U90=L39-41-7	39 - 41	left (L)	Black
28U90=R39-41-7	39 - 41	right (R)	Black
28U90=L41-44-0	41 - 44	left (L)	Beige
28U90=R41-44-0	41 - 44	right (R)	Beige
28U90=L41-44-7	41 - 44	left (L)	Black
28U90=R41-44-7	41 - 44	right (R)	Black
28U90=L44-47-0	44 - 47	left (L)	Beige
28U90=R44-47-0	44 - 47	right (R)	Beige
28U90=L44-47-7	44 - 47	left (L)	Black
28U90=R44-47-7	44 - 47	right (R)	Black

### Spare parts for 28U90



### Calf pad with strap

Reference number 29U90

Calf strap with closure for 28U90 ankle-foot orthosis

#### Technical data

Article number	Spare part for	Size	Colour
29U90=35-37-7	28U90=R35-37-7 28U90=L35-37-7	35-37	Black
29U90=35-37-9	28U90=L35-37-0 28U90=R35-37-0	35-37	Beige
29U90=37-39-7	28U90=L37-39-7 28U90=R37-39-7	37-39	Black
29U90=37-39-9	28U90=L37-39-0 28U90=R37-39-0	37-39	Beige
29U90=39-41-7	28U90=L39-41-7 28U90=R39-41-7	39-41	Black
29U90=39-41-9	28U90=L39-41-0 28U90=R39-41-0	39-41	Beige
29U90=41-44-7	28U90=L41-44-7 28U90=R41-44-7	41-44	Black
29U90=41-44-9	28U90=L41-44-0 28U90=R41-44-0	41-44	Beige
29U90=44-47-7	28U90=L44-47-7 28U90=R44-47-7	44-47	Black
29U90=44-47-9	28U90=L44-47-0 28U90=R44-47-0	44-47	Beige



## Malleo Neurexa pro

Reference number 28U50

Thermoplastic ankle-foot orthosis with dynamic pronation strap.

### Features and benefits

- Can be worn barefoot as well as with shoes
  - Flexible
- Dynamic pronation strap
  - Corrects supination
- Can be used as both a day or night splint
  - Prevents contractures

### Indications

- Drop foot without/with moderate supination of the foot due to spasticity
  - Stroke
  - Traumatic brain injury
  - Multiple sclerosis
  - Neural muscular atrophy
  - Isolated peroneal paralysis

### Modes of action

- The special guidance of the closure straps with the combination of the elastic pronation strap ensures effective correction, even with acute hypertonicity of the lower leg musculature.
- Yields when spasticity occurs
- Returns the foot to the neutral position after relaxation

### Technical data

#### Information material

646D507=EN_INT	Neurexa line – information for practitioners
646D1249=EN_INT	Lower limb stroke information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
647G1107=ALL_INT	28U50 instructions for use



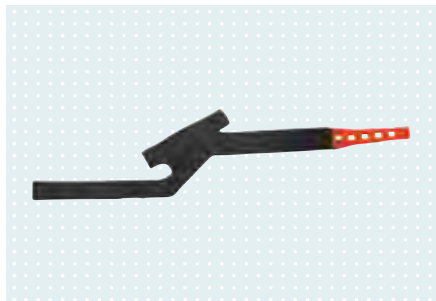
Article number	Shoe size	Side
28U50=L35-37	35-37	left (L)
28U50=R35-37	35-37	right (R)
28U50=L37-39	37-39	left (L)
28U50=R37-39	37-39	right (R)
28U50=L39-41	39-41	left (L)
28U50=R39-41	39-41	right (R)
28U50=L41-44	41-44	left (L)
28U50=R41-44	41-44	right (R)



# NeuroRehabilitation

Lower limb

## Spare parts for 28U50



### Hook-and-loop closure

Reference number 29S1

Hook-and-loop closure for Malleo Neurexa pro and Dyna Ankle.

#### Technical data

Article number	Spare part for	Side	Length
29S1=L35-37	28U50=L35-37	left (L)	15,0 cm
29S1=R35-37	28U50=R35-37	right (R)	15,0 cm
29S1=L37-39	28U50=L37-39	left (L)	16,5 cm
29S1=R37-39	28U50=R37-39	right (R)	16,5 cm
29S1=L39-41	28U50=L39-41	left (L)	18,0 cm
29S1=R39-41	28U50=R39-41	right (R)	18,0 cm
29S1=L41-44	28U50=L41-44	left (L)	20,0 cm
29S1=R41-44	28U50=R41-44	right (R)	20,0 cm



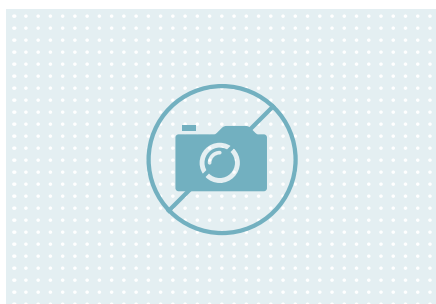
### Strap piece

Reference number 29S2

Strap piece for Malleo Neurexa pro and Dyna Ankle

#### Technical data

Article number	Spare part for	Size	Length
29S2=35-37	28U50 Malleo Neurexa pro	35-37	29 cm
29S2=37-41	28U50 Malleo Neurexa pro	37-41	33 cm
29S2=41-44	28U50 Malleo Neurexa pro	41-44	37 cm



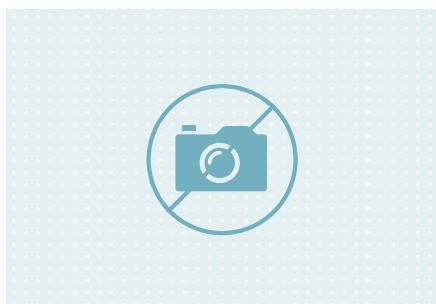
### Calf pad

Reference number 29S24

The calf pad is a spare part for the Malleo Neurexa pro.

#### Technical data

Article number	Size
29S24=35-39	35-39
29S24=39-44	39-44



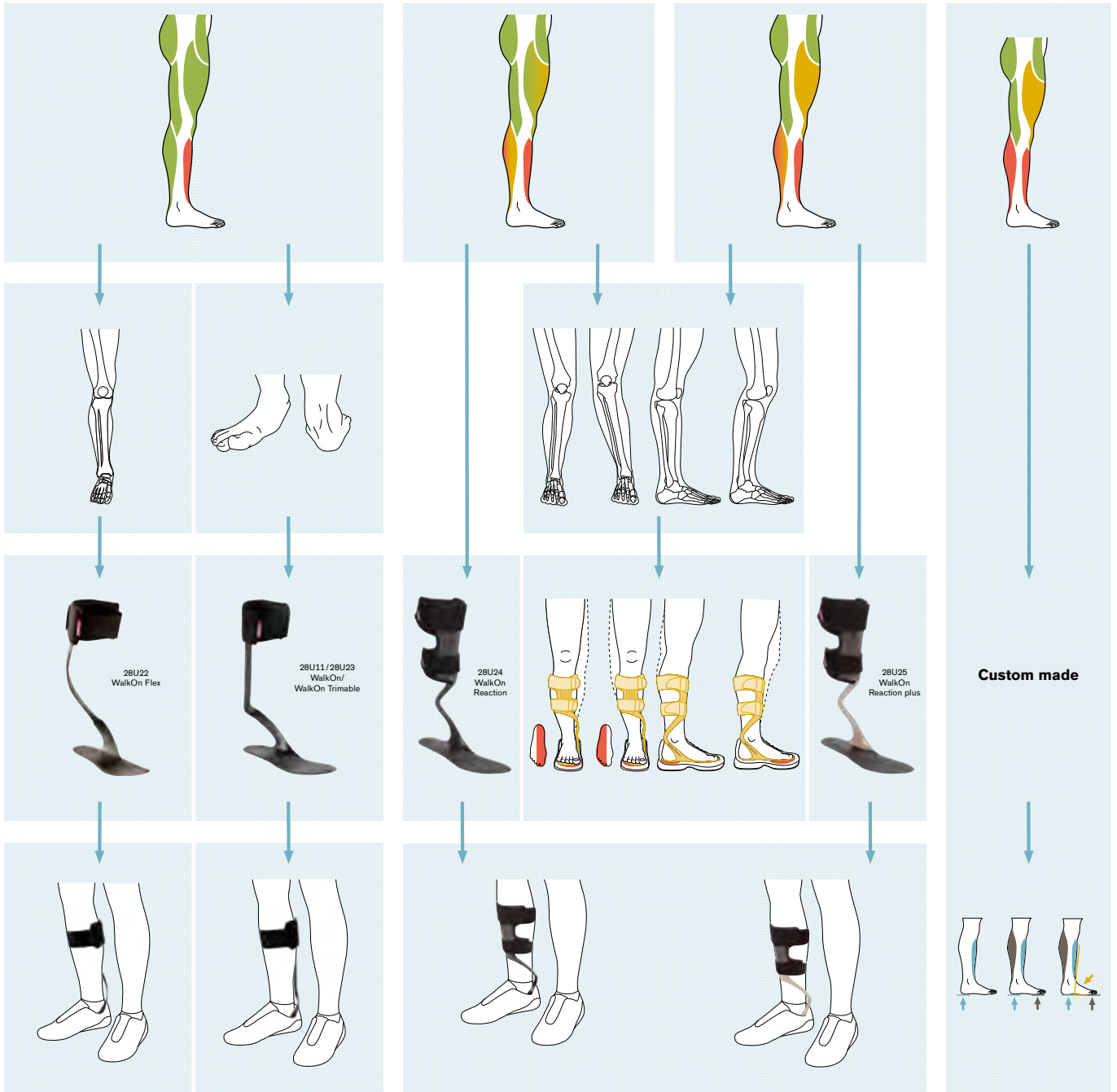
### Component set

Reference number 29U34

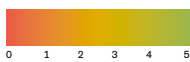
The component set is a spare part for the 28U50 Malleo Neurexa pro.

#### Technical data

Article number
29U34



### Muscle status by Janda



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Hint



Article Number	Side	Shoe Size (E)	Shoe Size (US)
WalkOn 28U11	=L36-39 left	36-39	4.5-7
WalkOn Flex 28U22	=R36-39 right	36-39	4.5-7
WalkOn Trimable 28U23	=L39-42 left	39-42	7-8.5
WalkOn Reaction 28U24	=R39-42 right	39-42	7-8.5
WalkOn Reaction plus 28U25	=L42-45 left	42-45	8.5-11.5
	=R42-45 right	42-45	8.5-11.5
	=L45-48 left	45-48	11.5-14
	=R45-48 right	45-48	11.5-14



## WalkOn Flex

Reference number 28U22

Dynamic ankle-foot orthosis made of composite material, for lifting the foot and active energy return while walking.

### Features and benefits

- Made of fibreglass prepreg
  - Easy energy storage and return during the gait cycle
- Trimable sole
  - Straightforward adaptation
- Slim design
  - Inconspicuous to wear
- Low weight
  - High acceptance
- Two comfortable calf bands made of climate-regulating material
  - Skin-friendly padding, washable and exchangeable
- Medial guidance of the longitudinal arch by the pylon
  - Prevents supination in solid footwear
- Spiral-shaped spring to calf band
  - Greater flexibility at heel strike, natural exterior rotation of the foot, less stability during pronation and supination than WalkOn/WalkOn Trimable

### Indications

- Drop foot caused by
  - Peroneal paralysis (paresis)
  - Stroke
  - Traumatic brain injury
  - Multiple sclerosis
  - Neural muscular atrophy

### Modes of action

- Supports dorsiflexion
- Promotes dynamic rollover
- Increases the stride length by improving muscle dynamics
- Promotes exterior rotation of the foot at heel strike
- Promotes a physiological gait pattern
- Reduces the risk of falling

### Technical data



Article number	Shoe size	Side	Height
28U22=L36-39	36 - 39	left (L)	35 cm
28U22=R36-39	36 - 39	right (R)	35 cm
28U22=L39-42	39 - 42	left (L)	36 cm
28U22=R39-42	39 - 42	right (R)	36 cm
28U22=L42-45	42 - 45	left (L)	37 cm
28U22=R42-45	42 - 45	right (R)	37 cm
28U22=L45-48	45 - 48	left (L)	39 cm
28U22=R45-48	45 - 48	right (R)	39 cm

### Information material

646D387=EN_INT	WalkOn line – information for practitioners
646H14=ALL_INT	WalkOn line user information
646D1249=EN_INT	Lower limb stroke information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
646F447=EN_INT	WalkOn selection tool
647G1530=ALL_INT	28U11 / 28U22 / 28U23 instructions for use

## Spare parts for 28U22



### Calf pad

Reference number 29U5

#### Technical data

Article number	Side	Size
29U5=L2	left	31–42
29U5=R2	right	31–42
29U5=L1	left	43–50
29U5=R1	right	43–50

## Accessory for 28U22



### Lateral pronation strap

Reference number 28Z10

A 28Z10 pronation strap can be used as an additional option to counteract spastic supination of the foot.

#### Technical data

Article number	Spare part/accessories for	For size
28Z10	28U22 WalkOn Flex	Universal



### WalkOn Flex FIT KIT

Reference number 28T2

A WalkOn FIT KIT can be used to test the function of the orthosis. It consists of four test orthoses including pads and a bag.

#### Technical data

Article number	Accessories for	Side	Shoe size
28T2	28U22 WalkOn Flex	left (L) right (R)	36 – 48

#### Information material

646D570=ALL\_INT

28T2 Information for practitioners





## WalkOn

Reference number 28U11

Dynamic ankle-foot orthosis made of carbon, for lifting the foot and active energy return while walking.

### Features and benefits

- Made of carbon fibre prepreg
  - Energy is stored and returned during the gait cycle
- Slim design
  - Inconspicuous to wear
- Low weight
  - High acceptance
- Two comfortable calf bands made of climate-regulating material
  - Skin-friendly padding, washable and exchangeable
- Medial guidance of the longitudinal arch by the pylon
  - Prevents supination in solid footwear
- Dorsal pylon/spring to calf band
  - Good control at heel strike and toe-off

### Indications

- Drop foot caused by
  - Peroneal paralysis (paresis)
  - Stroke
  - Traumatic brain injury
  - Multiple sclerosis
  - Neural muscular atrophy

### Modes of action

- Supports dorsiflexion
- Promotes dynamic rollover
- Increases the stride length by improving muscle dynamics
- Promotes exterior rotation of the foot at heel strike
- Promotes a physiological gait pattern
- Reduces the risk of falling

### Information material

646D387=EN_INT	WalkOn line – information for practitioners
646H14=ALL_INT	WalkOn line user information
646D1249=EN_INT	Lower limb stroke information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
646F447=EN_INT	WalkOn selection tool
647G1530=ALL_INT	28U11 / 28U22 / 28U23 instructions for use

### Technical data



Article number	Shoe size	Side	Height
28U11=L36-39	36 - 39	left (L)	35 cm
28U11=R36-39	36 - 39	right (R)	35 cm
28U11=L39-42	39 - 42	left (L)	36 cm
28U11=R39-42	39 - 42	right (R)	36 cm
28U11=L42-45	42 - 45	left (L)	37 cm
28U11=R42-45	42 - 45	right (R)	37 cm
28U11=L45-48	45 - 48	left (L)	39 cm
28U11=R45-48	45 - 48	right (R)	39 cm

## Spare parts for 28U11



### Calf pad

Reference number 623Z39

WalkOn calf pad

#### Technical data

Article number	Side	Size
623Z39=L-N	left (L)	36-48
623Z39=R-N	right (R)	36-48

## Accessory for 28U11



### Lateral pronation strap

Reference number 28Z10

A 28Z10 pronation strap can be used as an additional option to counteract spastic supination of the foot.

#### Technical data

Article number	Spare part/accessories for	For size
28Z10	28U11 WalkOn	Universal



### WalkOn FIT KIT

Reference number 28T1N

A WalkOn FIT KIT can be used to test the function of the orthosis. It consists of four test orthoses including pads and a bag.

#### Technical data

Article number	Accessories for	Side	Shoe size
28T1N	28U11 WalkOn	left (L) right (R)	36 - 48

#### Information material

646D569=ALL_INT	28T1N Information for practitioners
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## WalkOn Trimable

Reference number 28U23

Dynamic ankle-foot orthosis made of carbon, for lifting the foot and active energy return while walking.

### Features and benefits

- Made of carbon fibre prepreg
  - Energy is stored and returned during the gait cycle
- Slim design
  - Inconspicuous to wear
- Trimable sole
  - Straightforward adaptation
- Low weight
  - High acceptance
- Two comfortable calf bands made of climate-regulating material
  - Skin-friendly padding, washable and exchangeable
- Medial guidance of the longitudinal arch by the pylon
  - Prevents supination in solid footwear
- Dorsal pylon/spring to calf band
  - Good control at heel strike and toe-off

### Indications

- Drop foot caused by
  - Peroneal paralysis (paresis)
  - Stroke
  - Traumatic brain injury
  - Multiple sclerosis
  - Neural muscular atrophy

### Modes of action

- Supports dorsiflexion
- Promotes dynamic rollover
- Increases the stride length by improving muscle dynamics
- Promotes exterior rotation of the foot at heel strike
- Promotes a physiological gait pattern
- Reduces the risk of falling

### Information material

646D387=EN_INT	WalkOn line – information for practitioners
646H14=ALL_INT	WalkOn line user information
646D1249=EN_INT	Lower limb stroke information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
646F447=EN_INT	WalkOn selection tool
647G1530=ALL_INT	28U11 / 28U22 / 28U23 instructions for use

### Technical data



Article number	Shoe size	Side	Height
28U23=L36-39	36 - 39	left (L)	35 cm
28U23=R36-39	36 - 39	right (R)	35 cm
28U23=L39-42	39 - 42	left (L)	36 cm
28U23=R39-42	39 - 42	right (R)	36 cm
28U23=L42-45	42 - 45	left (L)	37 cm
28U23=R42-45	42 - 45	right (R)	37 cm
28U23=L45-48	45 - 48	left (L)	39 cm
28U23=R45-48	45 - 48	right (R)	39 cm

## Spare parts for 28U23



### Calf pad

Reference number 623Z39

WalkOn calf pad

#### Technical data

Article number	Side	Size
623Z39=L-N	left (L)	36-48
623Z39=R-N	right (R)	36-48

## Accessory for 28U23



### Lateral pronation strap

Reference number 28Z10

A 28Z10 pronation strap can be used as an additional option to counteract spastic supination of the foot.

#### Technical data

Article number	Spare part/accessories for	For size
28Z10	28U23 WalkOn Trimable	Universal



### WalkOn FIT KIT

Reference number 28T1N

A WalkOn FIT KIT can be used to test the function of the orthosis. It consists of four test orthoses including pads and a bag.

#### Technical data

Article number	Accessories for	Side	Shoe size
28T1N	28U23 WalkOn Trimable	left (L) right (R)	36 - 48

#### Information material

646D569=ALL\_INT

28T1N Information for practitioners





## WalkOn Reaction

Reference number 28U24

Dynamic ankle-foot orthosis made of carbon, for lifting the foot with slight anterior support for the knee joint and for active energy return while walking.

### Features and benefits

- Made of carbon fibre prepreg
  - Energy is stored and returned during the gait cycle
- Slim design
  - Inconspicuous to wear
- Trimable sole
  - Straightforward adaptation
- Low weight
  - High acceptance
- Shin pads with integrated closures made of climate-regulating material
  - Skin-friendly padding, washable and exchangeable
- Anterior support
  - Good control at heel strike and toe-off
- Lateral pronation strap
  - In conjunction with the lateral pronation strap, it is possible to reduce varus deviation of the foot and ankle and supination of the forefoot. This should always be supported by a corrective insole (included in the scope of delivery).

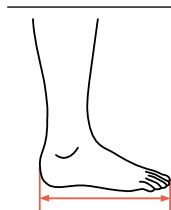
### Indications

- Drop foot without or with moderate spasticity
- Minor impairment of the foot lowering musculature and minor impairment of knee extension

### Modes of action

- Promotes a largely symmetrical and fluid physiological gait with support for knee extension and flexion, depending on what is needed
- Its energy return supports toe-off and heel strike
- Prevents uncontrolled foot contact and foot slap at heel strike and supports knee extension during toe-off
- Influences the statics in the frontal and sagittal plane when standing due to the alignment of the orthosis

### Technical data



Article number	Shoe size	Side	Height
28U24=L36-39	36 - 39	left (L)	33,3 cm
28U24=R36-39	36 - 39	right (R)	33,3 cm
28U24=L39-42	39 - 42	left (L)	35,5 cm
28U24=R39-42	39 - 42	right (R)	35,5 cm
28U24=L42-45	42 - 45	left (L)	37,7 cm
28U24=R42-45	42 - 45	right (R)	37,7 cm
28U24=L45-48	45 - 48	left (L)	40,0 cm
28U24=R45-48	45 - 48	right (R)	40,0 cm

### Information material

646D387=EN_INT	WalkOn line – information for practitioners
646H14=ALL_INT	WalkOn line user information
646D1249=EN_INT	Lower limb stroke information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
646F447=EN_INT	WalkOn selection tool
647G816=ALL_INT	28U24/28U25 instructions for use

## Spare parts for 28U24



### Lateral pronation strap

Reference number 28Z10

A 28Z10 pronation strap can be used as an additional option to counteract spastic supination of the foot.

#### Technical data

Article number	Spare part/accessories for	For size
28Z10	28U24 WalkOn Reaction	Universal



### Shin pad

Reference number 29U23

Shin pad for WalkOn Reaction and WalkOn Reaction plus

#### Technical data

Article number	Spare part for	Size
29U23	28U24 WalkOn Reaction	Universal
29U23=1	28U24 WalkOn Reaction	Universal



### Pad incl. hook-and-loop closures

Reference number 29U24

Pad for 28U24 and 28U25 incl. hook-and-loop closures

#### Technical data

Article number	Spare part for	Side	Size
29U24=L36-39	28U24=L36-39	left (L)	36 - 39
29U24=R36-39	28U24=R36-39	right (R)	36 - 39
29U24=L39-42	28U24=L39-42	left (L)	39 - 42
29U24=R39-42	28U24=R39-42	right (R)	39 - 42
29U24=L42-45	28U24=L42-45	left (L)	42 - 45
29U24=R42-45	28U24=R42-45	right (R)	42 - 45
29U24=L45-48	28U24=L45-48	left (L)	45 - 48
29U24=R45-48	28U24=R45-48	right (R)	45 - 48

# NeuroRehabilitation

Lower limb



## Y-hook-and-loop

Reference number 29U25

The Y-hook-and-loop is a spare part for the 28U24 and 28U25.

### Technical data

Article number	Spare part for	Size	Quantity unit
29U25=1	28U24 WalkOn Reaction	1	Piece
29U25=2	28U24 WalkOn Reaction	2	Piece

## Accessory for 28U24



## WalkOn Reaction FIT KIT

Reference number 28T3

A WalkOn Reaction FIT KIT can be used to test the function of the orthosis. This consists of eight trial orthoses including pads and bags.

### Technical data

Article number	Accessories for	Side	Shoe size
28T3	28U24 WalkOn Reaction	left (L) right (R)	36 - 48

### Information material

646D1392=ALL\_INT 28T3 / 28T4 / 28T5  
Information for  
practitioners



## WalkOn Reaction plus

Reference number 28U25

Dynamic ankle-foot orthosis made of carbon, for lifting the foot with anterior support for the knee joint and for active energy return while walking.

### Features and benefits

- Made of carbon fibre prepreg
  - Energy is stored and returned during the gait cycle
- Slim design
  - Discreet to wear
- Trimable sole
  - Straightforward adaptation
- Lightweight
  - Promotes high user acceptance
- Shin pads with integrated closures made of climate-regulating material
  - Skin-friendly padding, washable and straightforward to change
- Anterior support
  - Good control at heel strike and toe-off
- Dyneema-reinforced spring
  - Increases the resistance of the orthosis
- Lateral pronation strap
  - In conjunction with the lateral pronation strap, it is possible to reduce varus deviation of the foot and ankle and supination of the forefoot. This should always be supported by a corrective insole (included in the scope of delivery).

### Information material

646D387=EN_INT	WalkOn line – information for practitioners
646H14=ALL_INT	WalkOn line user information
646D1249=EN_INT	Lower limb stroke information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
646F447=EN_INT	WalkOn selection tool
647G816=ALL_INT	28U24/28U25 instructions for use

### Indications

- Drop foot, without or with mild to moderate spasticity
- Suitable in case of additional loss of the foot lowering musculature and/or slight to moderate weakness of the knee extensors (muscle strength level 3 according to Janda)
- Also suitable in case of foot deformities that can be corrected with the 28Z10 pronation strap and insoles.

### Modes of action

- Enables a largely physiological gait with higher stiffness than the familiar WalkOn Reaction. This means that even more effective support for knee extension and flexion can be provided thanks to the more powerful spring force
- Its energy return supports toe-off and heel strike
- Prevents uncontrolled foot contact and foot slap at heel strike and supports knee extension during toe-off
- Influences the statics in the frontal and sagittal plane when standing due to the alignment of the orthosis

### Technical data

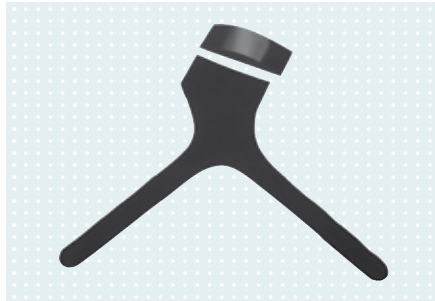


Article number	Shoe size	Side	Height
28U25=L36-39	36 - 39	left (L)	33,3 cm
28U25=R36-39	36 - 39	right (R)	33,3 cm
28U25=L39-42	39 - 42	left (L)	35,5 cm
28U25=R39-42	39 - 42	right (R)	35,5 cm
28U25=L42-45	42 - 45	left (L)	37,7 cm
28U25=R42-45	42 - 45	right (R)	37,7 cm
28U25=L45-48	45 - 48	left (L)	40,0 cm
28U25=R45-48	45 - 48	right (R)	40,0 cm

# NeuroRehabilitation

Lower limb

## Spare parts for 28U25



### Lateral pronation strap

Reference number 28Z10

A 28Z10 pronation strap can be used as an additional option to counteract spastic supination of the foot.

#### Technical data

Article number	Spare part/accessories for	For size
28Z10	28U25 WalkOn Reaction plus	Universal



### Shin pad

Reference number 29U23

Shin pad for WalkOn Reaction and WalkOn Reaction plus

#### Technical data

Article number	Spare part for	Size
29U23	28U25 WalkOn Reaction plus	Universal



### Pad incl. hook-and-loop closures

Reference number 29U24

Pad for 28U24 and 28U25 incl. hook-and-loop closures

#### Technical data

Article number	Spare part for	Side	Size
29U24=L36-39	28U25=L36-39	left (L)	36 - 39
29U24=R36-39	28U25=R36-39	right (R)	36 - 39
29U24=L39-42	28U25=L39-42	left (L)	39 - 42
29U24=R39-42	28U25=R39-42	right (R)	39 - 42
29U24=L42-45	28U25=L42-45	left (L)	42 - 45
29U24=R42-45	28U25=R42-45	right (R)	42 - 45
29U24=L45-48	28U25=L45-48	left (L)	45 - 48
29U24=R45-48	28U25=R45-48	right (R)	45 - 48



## Y-hook-and-loop

Reference number 29U25

### Technical data

Article number	Spare part for	Size	Quantity unit
29U25=1	28U25 WalkOn Reaction plus	1	Piece
29U25=2	28U25 WalkOn Reaction plus	2	Piece

## Accessory for 28U25



## WalkOn Reaction plus FIT KIT

Reference number 28T4

A WalkOn Reaction FIT KIT can be used to test the function of the orthosis. It consists of eight test orthoses including pads and a bag.

### Technical data

Article number	Accessories for	Side	Shoe size
28T4	28U25 WalkOn Reaction plus	left (L) right (R)	36-48

### Information material

646D1392=ALL\_INT      28T3 / 28T4 / 28T5  
Information for  
practitioners





## WalkOn Reaction junior

Reference number 28U25

Dynamic ankle-foot orthosis made of carbon for children.

### Features and benefits

- Highly dynamic characteristics
  - More control when walking
- Low weight and open heel
  - High wearer comfort
- Open heel and anatomically designed frontal support element
  - No pressure points
- Shin pad
  - Better compliance
- Combination with additional dynamic ankle-foot orthoses (DAFOs) possible
  - Enhanced functions
- All fabric parts can be washed and replaced
  - Hygienic

### Indications

- Infantile cerebral palsy
- Drop foot, without or with mild to moderate spasticity
- Hemiparesis
- Diparesis

### Modes of action

- Supports dorsiflexion
- Promotes dynamic rollover
- Increases the stride length by improving muscle dynamics
- Promotes exterior rotation of the foot at heel strike
- Promotes a physiological gait pattern
- Reduces the risk of falling

### Information material

646D1128=EN_INT	WalkOn Reaction junior information for practitioners
646D387=EN_INT	WalkOn line – information for practitioners
646H14=ALL_INT	WalkOn line user information
646D1249=EN_INT	Lower limb stroke information for practitioners
647G816=ALL_INT	28U24/28U25 instructions for use

### Technical data



Article number	Shoe size	Side	Height
28U25=L24-27	24 - 27	left (L)	20,5 cm
28U25=R24-27	24 - 27	right (R)	20,5 cm
28U25=L27-30	27 - 30	left (L)	24,5 cm
28U25=R27-30	27 - 30	right (R)	24,5 cm
28U25=L30-33	30 - 33	left (L)	27,0 cm
28U25=R30-33	30 - 33	right (R)	27,0 cm
28U25=L33-36	33 - 36	left (L)	29,4 cm
28U25=R33-36	33 - 36	right (R)	29,4 cm

## Spare parts for 28U25



### Pad incl. hook-and-loop closures

Reference number 29U24

The Y-hook-and-loop is a spare part for the 28U24 and 28U25.

#### Technical data

Article number	Spare part for	Side	Size
29U24=L24-27	28U25=L24-27	left (L)	24 - 27
29U24=R24-27	28U25=R24-27	right (R)	24 - 27
29U24=L27-30	28U25=L27-30	left (L)	27 - 30
29U24=R27-30	28U25=R27-30	right (R)	27 - 30
29U24=L30-33	28U25=L30-33	left (L)	30 - 33
29U24=R30-33	28U25=R30-33	right (R)	30 - 33
29U24=L33-36	28U25=L33-36	left (L)	33 - 36
29U24=R33-36	28U25=R33-36	right (R)	33 - 36

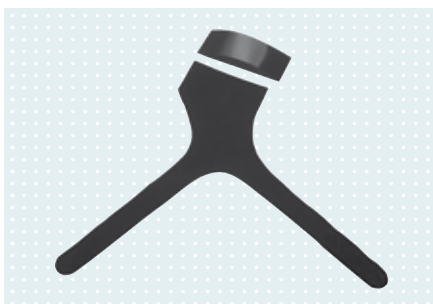


### Y-hook-and-loop

Reference number 29U25

#### Technical data

Article number	Spare part for	Size	Quantity unit
29U25=1	28U25 WalkOn Reaction junior	1	Piece
29U25=2	28U25 WalkOn Reaction junior	2	Piece



### Lateral pronation strap

Reference number 28Z10

A 28Z10 pronation strap can be used as an additional option to counteract spastic supination of the foot.

#### Technical data

Article number	Spare part/accessories for	For size
28Z10=1	28U25 WalkOn Reaction junior	Universal

## Accessory for 28U25



### WalkOn Reaction junior FIT KIT

Reference number 28T5

A WalkOn Reaction junior FIT KIT can be used to test the function of the orthosis. This consists of eight trial orthoses including pads and bags.

#### Technical data

Article number	Accessories for	Side	Shoe size
28T5	28U25 WalkOn Reaction junior	left (L) right (R)	24-36

#### Information material

646D1392=ALL\_INT 28T3 / 28T4 / 28T5  
Information for practitioners

# NeuroRehabilitation

## Lower limb – FES selection guide

### Functional electrical stimulation

The L100 Go and L300 Go were designed for users with drop foot and are based on the principle of functional electrical stimulation (FES). The L300 Go also provides support for instability of the knee. Depending on the user's needs, the L300 Go is available as an independent lower leg system, as a combined lower leg and thigh system and as an independent thigh system that uses a foot sensor. The L300 Go stimulates on two channels, while the L100 Go system is available as an independent lower leg system with single-channel stimulation.

To determine which system is suitable for your patient, please complete the following four steps.

#### 1 Anamnesis

- Examine the patient closely and speak with them about their expectations. Determine whether they had any prior device and, if so, what type.

This will reveal the following aspects:

Has the patient had any previous orthotic device? Were they satisfied/dissatisfied with this device?

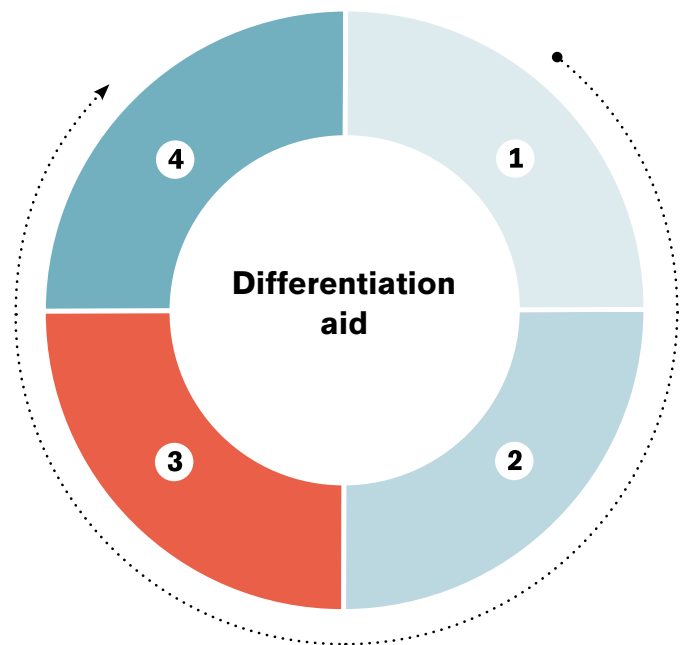
If the patient has been treated with FES before, did they have a good experience with it, and are they able to use an FES system? This will determine whether an FES system is appropriate for them in principle.

Has the patient not yet been treated with FES, and were they previously treated with an ankle-foot orthosis?

You will first need to test whether the patient responds to FES at all.

#### 2 Muscle status measurement according to Janda

- Measure your patient's muscle strength and determine whether there is isolated dorsiflexion weakness or whether other muscle groups are also affected, such as the plantar flexors.
- Possible result A:
  - Only the dorsiflexion muscles are affected – there is a relatively high likelihood that the L100 Go single-channel system will function satisfactorily. A functional test and gait check will be needed to indicate whether the L100 Go is sufficient as a treatment option.
- Possible result B:
  - Several muscle groups are affected, which means dorsiflexion will not be sufficient for a physiological gait pattern on its own. As a result, eversion and dorsiflexion can be controlled separately using the two-channel system. A functional test and gait check will be needed to indicate whether the L300 Go is the right treatment option. If other muscle groups that impair the knee-extending or knee-flexing musculature are affected and, for example, trigger a genu recurvatum, an upper leg cuff can also be used to produce a proper gait pattern (L300 Go Upgrade system).



#### 3 Functional test

- You do not need both systems to test and make a distinction between the L100 Go and L300 Go. Simply put an L300 Go with Quick Fit electrodes on the patient, and if you can stimulate physiological dorsiflexion while the patient is walking, the L100 Go single-channel system should be the right device.

#### 4 Result

- Insufficient dorsiflexion is still present if the foot deviates medially or laterally in the swing phase and there is a danger of a supination trauma during heel strike. Furthermore, there should be no negative impact on a neutral knee position in A-P in the area of the knee joint during walking and standing. However, if you observe any of the aforementioned, the L300 Go should always be used. The major advantage of the L300 Go is the differentiated control of the muscles, which also allows compensation for deviations in the frontal plane in the foot. We also recommend considering the addition or application of an Upgrade system, which can optionally influence the knee-flexing or knee-extending musculature.



## L100 Go System

Reference number 28FS100

The L100 Go was designed for users with drop foot and is based on the principle of functional electrical stimulation. Stimulation takes place via one channel.

### Features and benefits

- User app for control and activity measurement
  - Easy handling
- 3D motion detection in real time
  - Reliable stimulation at the right time
- Easy to put on with one hand
  - Reliable application for the patient
- Electrode connections marked in colour
  - Reliable application for the technician/therapist and patient
- Textile electrodes for moistening
  - Easy handling and positioning
- Integrated 10 m walking test
  - Outcome and results can be analysed
- Intuitive fitting
  - Reliable application for the technician/therapist and patient

### Indications

- Drop foot caused by
  - Peroneal paralysis (paresis)
  - Stroke
  - Traumatic brain injury
  - Multiple sclerosis
  - Neural muscular atrophy

### Modes of action

- An electrical stimulation impulse causes the dorsiflexion musculature to contract, lifting the foot during the swing phase

### Information material

646D1249=EN_INT	Lower limb stroke information for practitioners
646D1243=EN_INT	FES information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
647G1428=EN	L100 Go system quick reference guide
647G1427=EN	L100 Go system instructions for use (user)

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### Technical data

Article number	Side	Lower leg circumference
28FS100=L	left (L)	29-51 cm
28FS100=R	right (R)	29-51 cm

# NeuroRehabilitation

Lower limb

## Spare parts for 28FS100



### L100 Go cuff

Reference number 28FS100S

The cuff is a spare part for the L100 Go.

#### Technical data

Article number	Side
28FS100S=LG1-5X01	left (L)
28FS100S=LG1-5Y01	right (R)



### Quick fit electrode

Reference number 28FS300S

The quick fit electrode is used as a spare part for L300 Go and L100 Go.

#### Technical data

Article number	Side
28FS300S=LG4-1100	left (L)
28FS300S=LG4-1000	right (R)



### Round textile electrode

Reference number 28FS300S

The round textile electrode is used as a spare part for the L300 Go and L100 Go.

#### Technical data

Article number	Size	Diameter
28FS300S=LG3-6600	36 mm	36 mm
28FS300S=LG3-4V00	45 mm	45 mm



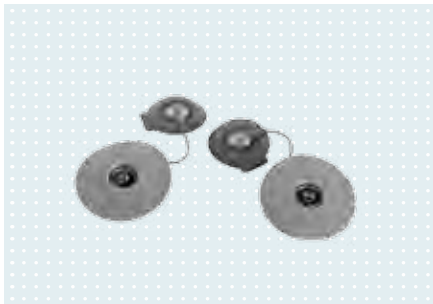
### Hydrogel electrode

Reference number 28FS300S

The hydrogel electrode is used as a spare part for the L300 Go and L100 Go.

#### Technical data

Article number	Size
28FS300S=LG3-5F00	45 mm
28FS300S=LG3-6700	36 mm



## Textile electrode adapter set, 45 mm

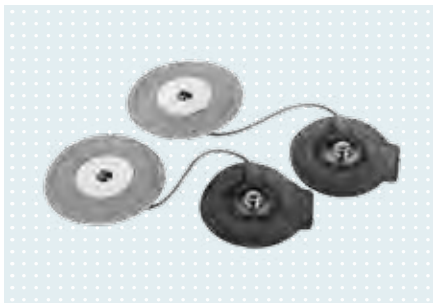
Reference number 28FS300S=LG4-4U00

The textile electrode adapter set is a spare part for the L300 Go and L100 Go.

### Technical data

**Article number**

28FS300S=LG4-4U00



## Hydrogel electrode adapter set, 45 mm

Reference number 28FS300S=LG4-5E00

The hydrogel electrode adapter set is used as a spare part for the L300 Go and L100 Go.

### Technical data

**Article number**

28FS300S=LG4-5E00



## Cable cover (for adapter sets)

Reference number 28FS300S=LG3-5L00

The cable cover for the adapter set is used as a spare part for the L300 Go and L100 Go.

### Technical data

**Article number**

28FS300S=LG3-5L00



## Magnetic charging cable

Reference number 28FS300S=LG4-7100

The magnetic charging cable is used as a spare part for the L300 Go and L100 Go.

### Technical data

**Article number**

28FS300S=LG4-7100



# NeuroRehabilitation

Lower limb

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## System charger with charging adapters

Reference number 28FS300S=LG4-7200

The system charger with charging adapters is a spare part for the L300 Go and L100 Go.

### Technical data

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#### Article number

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28FS300S=LG4-7200

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## Stimulator/EPG

Reference number 28FS300S=LG4-5300

The stimulator/ EPG is a spare part for the L300 Go and L100 Go.

### Technical data

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#### Article number

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28FS300S=LG4-5300

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## L300 Go system

Reference number 28FS300

The L300 Go system is a multi-channel system. This version is a useful treatment option for users for whom adequate dorsiflexion is not possible with single-channel stimulation and who also have instability of the knee or weak thigh muscles.

### Features and benefits

- Intuitive fitting
  - Reliable application for the technician/therapist and patient
- Easy to put on with one hand
  - Reliable application for the patient
- 3D motion detection in real time
  - Reliable stimulation at the right time
- User app for control and activity measurement
  - Remote control and heel switch are only required as an option
- Integrated 10 m walking test
  - Outcome and results can be analysed
- Thigh stimulator optionally available in two versions
  - Knee instabilities in the sagittal plane can be treated with or without the L300 Go
- Textile electrodes for moistening
  - Easy handling and positioning
- Various electrode designs
  - Better results due to more precise stimulation
- Electrode connections marked in colour
  - Safe and easy for patient to use

### Indications

- Drop foot caused by
  - Peroneal paralysis (paresis)
  - Stroke
  - Traumatic brain injury
  - Multiple sclerosis
  - Neural muscular atrophy

### Modes of action

- An electrical stimulation impulse causes the dorsiflexion musculature to contract, lifting the foot during the swing phase

### Information material

646D1249=EN_INT	Lower limb stroke information for practitioners
646D1243=EN_INT	FES information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
647G1363=EN	L300 Go system quick reference guide (user)
647G2004=EN	L300 Go system instructions for use (user)
647G2005=EN	L300 Go system instructions for use (practitioners)

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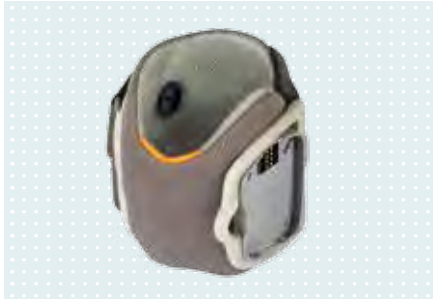
### Technical data

Article number	For size	Side	Lower leg circumference
28FS300=L-S	S	left (L)	22-31 cm
28FS300=R-S	S	right (R)	22-31 cm
28FS300=L-L	L	left (L)	29-51 cm
28FS300=R-L	L	right (R)	29-51 cm

# NeuroRehabilitation

Lower limb

## Spare parts for 28FS300



### Lower leg cuff

Reference number 28FS300S

The lower leg cuff is a spare part for the L300 Go.

#### Technical data

Article number	Side	For size
28FS300S=LG4-6200	left (L)	S
28FS300S=LG4-6100	right (R)	S
28FS300S=LG4-5800	left (L)	L
28FS300S=LG4-5700	right (R)	L



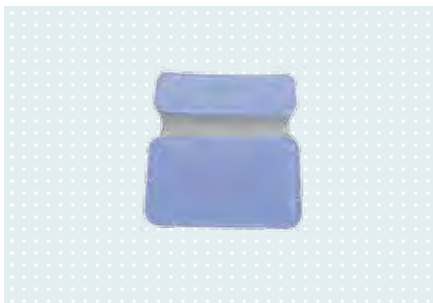
### Quick fit electrode

Reference number 28FS300S

The quick fit electrode is used as a spare part for L300 Go and L100 Go.

#### Technical data

Article number	Side
28FS300S=LG4-1100	left (L)
28FS300S=LG4-1000	right (R)



### Small quick fit electrode

Reference number 28FS300S

The small Quick Fit electrode serves as a spare part for size S of the L300 Go.

#### Technical data

Article number	Description
28FS300S=LG3-6800	Small quick fit electrode A (standard)
28FS300S=LG3-6900	Small quick fit electrode B



### Steering electrode

Reference number 28FS300S

The steering electrode is used as a spare part for the L300 Go.

#### Technical data

Article number	Side
28FS300S=SCE-1100	left (L)
28FS300S=SCE-1000	right (R)



## Round textile electrode

Reference number 28FS300S

The round textile electrode is used as a spare part for the L300 Go and L100 Go.

### Technical data

Article number	Size	Diameter
28FS300S=LG3-6600	36 mm	36 mm
28FS300S=LG3-4V00	45 mm	45 mm



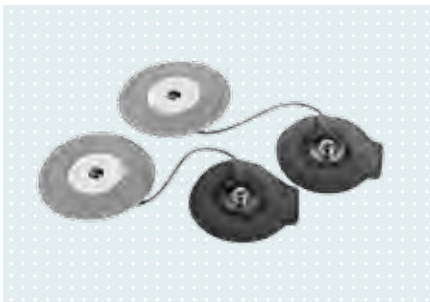
## Hydrogel electrode

Reference number 28FS300S

The hydrogel electrode is used as a spare part for the L300 Go and L100 Go.

### Technical data

Article number	Size
28FS300S=LG3-5F00	45 mm
28FS300S=LG3-6700	36 mm



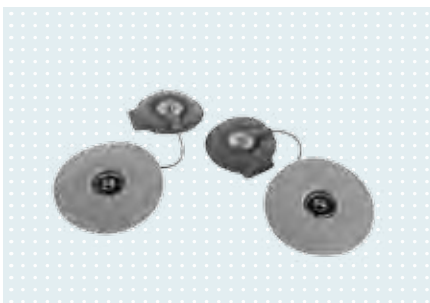
## Hydrogel electrode adapter set, 45 mm

Reference number 28FS300S=LG4-5E00

The hydrogel electrode adapter set is used as a spare part for the L300 Go and L100 Go.

### Technical data

Article number
28FS300S=LG4-5E00



## Textile electrode adapter set, 45 mm

Reference number 28FS300S=LG4-4U00

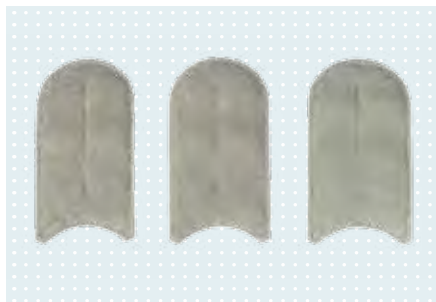
The textile electrode adapter set is a spare part for the L300 Go and L100 Go.

### Technical data

Article number
28FS300S=LG4-4U00

# NeuroRehabilitation

## Lower limb



### Cable cover (for adapter sets)

Reference number 28FS300S=LG3-5L00

The cable cover for the adapter set is used as a spare part for the L300 Go and L100 Go.

#### Technical data

Article number
28FS300S=LG3-5L00



### Stimulator/EPG

Reference number 28FS300S=LG4-5300

The stimulator/ EPG is a spare part for the L300 Go and L100 Go.

#### Technical data

Article number
28FS300S=LG4-5300



### Lower leg FS strap

Reference number 28FS300S

The lower leg strap is a used as a spare part for the L300 Go.

#### Technical data

Article number	For size
28FS300S=LG4-5S00	Universal
28FS300S=LG4-5900	S
28FS300S=LG4-5A00	M
28FS300S=LG4-5B00	L
28FS300S=LG4-6300	XS
28FS300S=LG4-6400	XXS



### Strap cover, lower leg cuff

Reference number 28FS300S=LG3-4A00

The strap covers for the lower leg cuff are accessories for the L100 Go and L300 Go.

#### Technical data

Article number	Package contents
28FS300S=LG3-4A00	20 pieces



## Inlays

Reference number 28FS300S

The inlays are spare parts for the L300 Go and L100 Go.

### Technical data

Article number	Size	Side
28FS300S=LG3-6A10	small	right (R)
28FS300S=LG3-6B10	small	left (L)
28FS300S=LG4-4R00	Standard	right (R)
28FS300S=LG4-4T00	Standard	left (L)

• The illustration shows the standard size.



## Magnetic charging cable

Reference number 28FS300S=LG4-7100

The magnetic charging cable is used as a spare part for the L300 Go and L100 Go.

### Technical data

Article number
28FS300S=LG4-7100



## Carrying strap for remote control

Reference number 28FS300S=20-0005

The neck strap is used as a spare part for the remote control of the L300 Go.

### Technical data

Article number
28FS300S=20-0005



## System charger with charging adapters

Reference number 28FS300S=LG4-7200

The system charger with charging adapters is a spare part for the L300 Go and L100 Go.

### Technical data

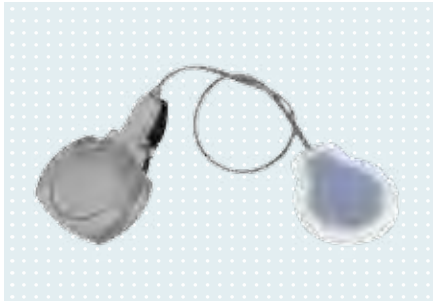
Article number
28FS300S=LG4-7200



# NeuroRehabilitation

Lower limb

## Accessory for 28FS300



### Foot sensor

Reference number 28FS300A

The foot sensor is available in a standard and a long version, and serves as a spare part for the L300 Go.

#### Technical data

Article number	Size
28FS300A=LG4-5400	Standard
28FS300A=LG4-5500	Long



### Adhesive pads for foot sensor

Reference number 28FS300A=LG3-5K00

The adhesive pads for the foot sensor are a spare part for the L300 Go.

#### Technical data

Article number	Package contents
28FS300A=LG3-5K00	2 pieces



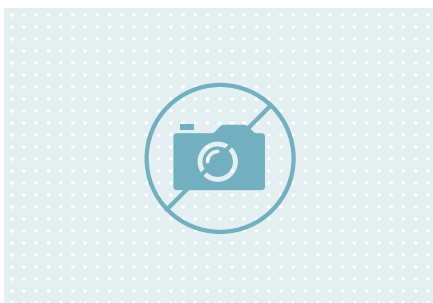
### Remote control

Reference number 28FS300A=LG4-5200

The remote control is used as a spare part for the L300 Go.

#### Technical data

Article number
28FS300A=LG4-5200



### Protective cover for remote control

Reference number 28FS300A=LG4-5201

The protective cover for the remote control serves as a spare part for the L300 Go.

#### Technical data

Article number
28FS300A=LG4-5201



## L300 Go System Plus Upgrade

Reference number 28KS300

The L300 Go Plus Upgrade is used in combination with the L300 Go and offers additional support for knee instability and weakness of the thigh muscles.

### Features and benefits

- User app for control and activity measurement
  - Remote control and heel switch are only required as an option
- 3D motion detection in real time
  - Reliable stimulation at the right time
- Easy to put on with one hand
  - Reliable application for the patient
- Electrode connections marked in colour
  - Safe and easy for patient to use
- Textile electrodes for moistening
  - Easy handling and positioning
- Integrated 10 m walking test
  - Outcome and results can be analysed
- Intuitive fitting
  - Reliable application for the technician/therapist and patient
- Various electrode designs
  - Better results due to more precise stimulation

### Indications

- Drop foot in case of
  - Stroke
  - Traumatic brain injury
  - Multiple sclerosis
  - Neural muscular atrophy

### Modes of action

- An electrical stimulation impulse causes the knee-extending or knee-flexing musculature to contract, stabilising the knee

### Technical data

Article number	For size	Side	Upper thigh circumference	Lower thigh circumference
28KS300=L-L	L	left (L)	53-85 cm	33-50 cm
28KS300=R-L	L	right (R)	53-85 cm	33-50 cm

### Information material

646D1249=EN_INT	Lower limb stroke information for practitioners
646D1243=EN_INT	FES information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
647G1365=EN	L300 Go Plus Upgrade and L300 Go Stand Alone quick reference guide (user)
647G1364=EN	L300 Go Plus Upgrade and L300 Go Stand Alone quick reference guide (practitioners)
647G1363=EN	L300 Go system quick reference guide (user)
647G2004=EN	L300 Go system instructions for use (user)
647G2005=EN	L300 Go system instructions for use (practitioners)

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# NeuroRehabilitation

Lower limb

## Spare parts for 28KS300



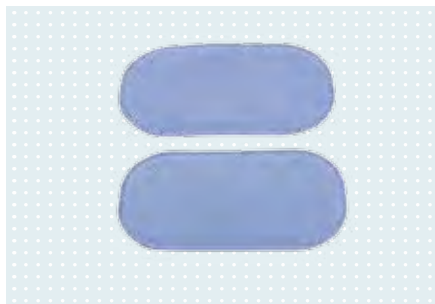
### Thigh cuff

Reference number 28KS300S

The thigh cuff is used as a spare part for the L300 Go.

#### Technical data

Article number	Side
28KS300S=L4P-5400	left (L)
28KS300S=L4P-5500	right (R)



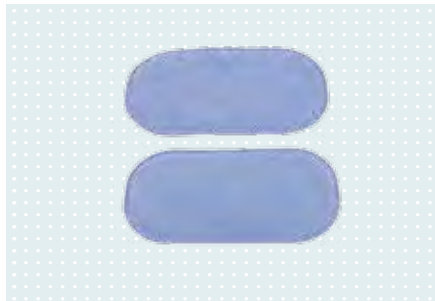
### Textile electrode for thigh, offset

Reference number 28KS300S=L3P-5D00

The offset textile electrodes are options for the L300 Go System Plus Upgrade and Stand Alone.

#### Technical data

Article number
28KS300S=L3P-5D00



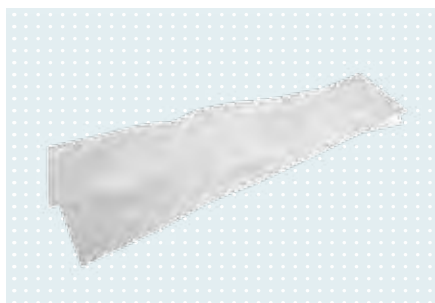
### Textile electrode for thigh, central

Reference number 28KS300S=L4P-5D00

The central textile electrode is an option for the L300 Go System Plus Upgrade and Stand Alone.

#### Technical data

Article number
28KS300S=L4P-5D00



### Strap cover, thigh cuff

Reference number 28KS300S=L4P-4A00

The strap covers for the thigh are used as spare parts for the L300 Go.

#### Technical data

Article number	Package contents
28KS300S=L4P-4A00	10 pieces



## Strap holder for thigh cuff

Reference number 28KS300S=L4P-8200

The strap holder for the thigh cuff is used as an option for the L300 Go System Plus Upgrade and Stand Alone.

### Technical data

**Article number**

28KS300S=L4P-8200



## Thigh strap incl. buckles

Reference number 28KS300S

The thigh strap set is used as a spare part for the L300 Go System Plus Upgrade and Stand Alone.

### Technical data

**Article number**

28KS300S=L4P-7000

28KS300S=L4P-7100

28KS300S=L4P-7200

**Size**

small

medium

large



## Stimulator/EPG, peripher

Reference number 28KS300S=L4P-5300

### Technical data

**Article number**

28KS300S=L4P-5300



## Magnetic charging cable

Reference number 28FS300S=LG4-7100

The magnetic charging cable is used as a spare part for the L300 Go and L100 Go.

### Technical data

**Article number**

28FS300S=LG4-7100



## L300 Go System Plus Stand Alone

Reference number 28KS310

The L300 Go System Plus Stand Alone consists of the thigh system. The system offers support for knee instability and weakness of the thigh muscles.

### Features and benefits

- User app for control and activity measurement
  - Remote control and heel switch are only required as an option
- 3D motion detection in real time
  - Reliable stimulation at the right time
- Easy to put on with one hand
  - Reliable application for the patient
- Electrode connections marked in colour
  - Safe and easy for patient to use
- Textile electrodes for moistening
  - Easy handling and positioning
- Integrated 10 m walking test
  - Outcome and results can be analysed
- Intuitive fitting
  - Reliable application for the technician/therapist and patient
- Various electrode designs
  - Better results due to more precise stimulation

### Indications

- Drop foot in case of
  - Stroke
  - Traumatic brain injury
  - Multiple sclerosis
  - Neural muscular atrophy

### Modes of action

- An electrical stimulation impulse causes the knee-extending or knee-flexing musculature to contract, stabilising the knee

### Information material

646D1249=EN_INT	Lower limb stroke information for practitioners
646D1243=EN_INT	FES information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
647G1365=EN	L300 Go Plus Upgrade and L300 Go Stand Alone quick reference guide (user)
647G1364=EN	L300 Go Plus Upgrade and L300 Go Stand Alone quick reference guide (practitioners)
647G1363=EN	L300 Go system quick reference guide (user)
647G2004=EN	L300 Go system instructions for use (user)
647G2005=EN	L300 Go system instructions for use (practitioners)

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### Technical data

Article number	Side
28KS310=L-L	left (L)
28KS310=R-L	right (R)

## Spare parts for 28KS310



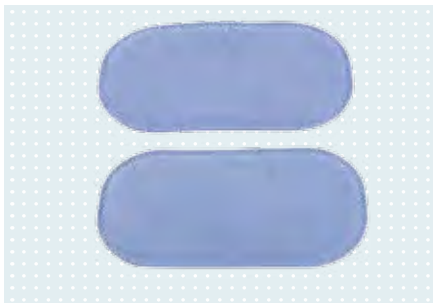
### Thigh cuff

Reference number 28KS300S

The thigh cuff is used as a spare part for the L300 Go.

#### Technical data

Article number	Side
28KS300S=L4P-5400	left (L)
28KS300S=L4P-5500	right (R)



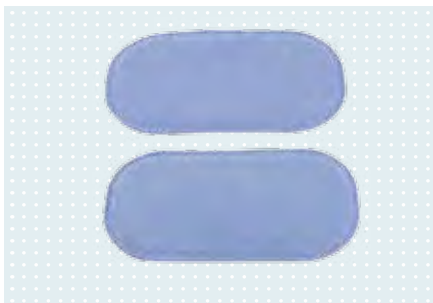
### Textile electrode for thigh, offset

Reference number 28KS300S=L3P-5D00

The offset textile electrodes are options for the L300 Go System Plus Upgrade and Stand Alone.

#### Technical data

Article number
28KS300S=L3P-5D00



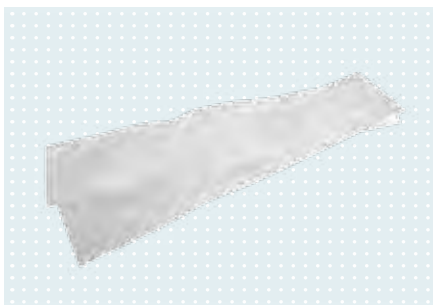
### Textile electrode for thigh, central

Reference number 28KS300S=L4P-5D00

The central textile electrode is an option for the L300 Go System Plus Upgrade and Stand Alone.

#### Technical data

Article number
28KS300S=L4P-5D00



### Strap cover, thigh cuff

Reference number 28KS300S=L4P-4A00

The strap covers for the thigh are used as spare parts for the L300 Go.

#### Technical data

Article number	Package contents
28KS300S=L4P-4A00	10 pieces



# NeuroRehabilitation

## Lower limb



### Strap holder for thigh cuff

Reference number 28KS300S=L4P-8200

The strap holder for the thigh cuff is used as an option for the L300 Go System Plus Upgrade and Stand Alone.

#### Technical data

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**Article number**

28KS300S=L4P-8200

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### Thigh strap incl. buckles

Reference number 28KS300S

The thigh strap set is used as a spare part for the L300 Go System Plus Upgrade and Stand Alone.

#### Technical data

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**Article number**

28KS300S=L4P-7000

28KS300S=L4P-7100

28KS300S=L4P-7200

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**Size**

small

medium

large

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### Stimulator/EPG

Reference number 28FS300S=LG4-5300

The stimulator/ EPG is a spare part for the L300 Go and L100 Go.

#### Technical data

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**Article number**

28FS300S=LG4-5300

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### Magnetic charging cable

Reference number 28FS300S=LG4-7100

The magnetic charging cable is used as a spare part for the L300 Go and L100 Go.

#### Technical data

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**Article number**

28FS300S=LG4-7100

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## Accessory for 28KS310



### Foot sensor

Reference number 28FS300A

The foot sensor is available in a standard and a long version, and serves as a spare part for the L300 Go.

#### Technical data

Article number	Size
28FS300A=LG4-5400	Standard
28FS300A=LG4-5500	Long



### Adhesive pads for foot sensor

Reference number 28FS300A=LG3-5K00

The adhesive pads for the foot sensor are a spare part for the L300 Go.

#### Technical data

Article number	Package contents
28FS300A=LG3-5K00	2 pieces



### Clinician's programmer kit

Reference number 28FS300=PROGRAMMER

The L300 Go clinician's programmer kit is used to carry out the individual L300 Go settings for the patient.

#### Technical data

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**Article number**

28FS300=PROGRAMMER

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## Spare parts for 28FS300=PROGRAMMER



### Bluetooth dongle

Reference number 28FS300S=LG4-BT01

The Bluetooth dongle is used as a spare part for the L300 Go and L100 Go.

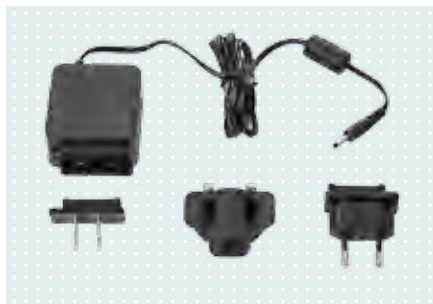
#### Technical data

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**Article number**

28FS300S=LG4-BT01

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### Clinician's programmer charger + adapter

Reference number 28PS200S=20-0014

The charger and the adapter are spare parts for the clinician programmer.

#### Technical data

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**Article number**

28PS200S=20-0014

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## Clinical kit/basic equipment for professionals

Reference number 28FS300=CLINICKIT

The clinical kit is used to identify patients for whom the L100 Go or L300 Go is a suitable fitting solution.

### Technical data

#### Article number

28FS300=CLINICKIT

## Spare parts for 28FS300=CLINICKIT



## Fitting cable

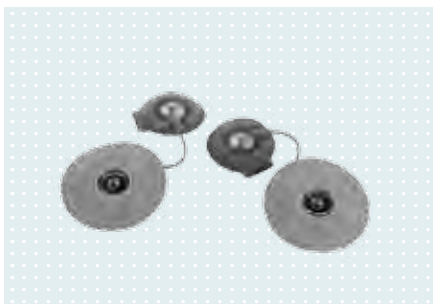
Reference number 28FS300S=LG3-4900

The fitting cable is a spare part for the L300 Go and L100 Go.

### Technical data

#### Article number

28FS300S=LG3-4900



## Textile electrode adapter set, 45 mm

Reference number 28FS300S=LG4-4U00

The textile electrode adapter set is a spare part for the L300 Go and L100 Go.

### Technical data

#### Article number

28FS300S=LG4-4U00



## Strap cover, lower leg cuff

Reference number 28FS300S=LG3-4A00

The strap covers for the lower leg cuff are accessories for the L100 Go and L300 Go.

### Technical data

#### Article number

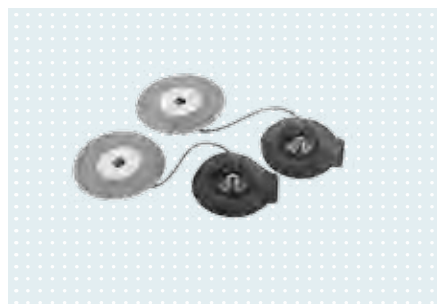
28FS300S=LG3-4A00

#### Package contents

20 pieces

# NeuroRehabilitation

## Lower limb



### Hydrogel electrode adapter set, 45 mm

Reference number 28FS300S=LG4-5E00

The hydrogel electrode adapter set is used as a spare part for the L300 Go and L100 Go.

#### Technical data

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**Article number**

28FS300S=LG4-5E00

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### Inlays

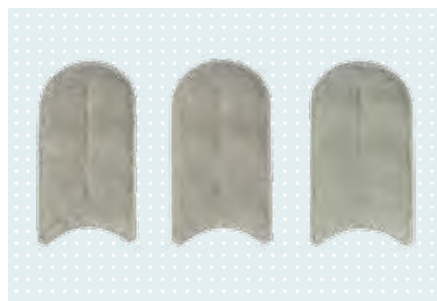
Reference number 28FS300S

The inlays are spare parts for the L300 Go and L100 Go.

#### Technical data

Article number	Size	Side
28FS300S=LG3-6A10	small	right (R)
28FS300S=LG3-6B10	small	left (L)
28FS300S=LG4-4R00	Standard	right (R)
28FS300S=LG4-4T00	Standard	left (L)

• The illustration shows the standard size.



### Cable cover (for adapter sets)

Reference number 28FS300S=LG3-5L00

The cable cover for the adapter set is used as a spare part for the L300 Go and L100 Go.

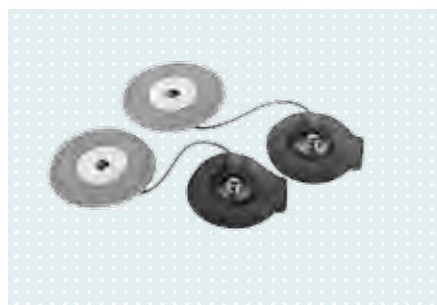
#### Technical data

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**Article number**

28FS300S=LG3-5L00

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### Small electrode adapter set, 36 mm

Reference number 28FS300S=LG3-6500

The small electrode adapter set is used as a spare part for the L300 Go and L100 Go.

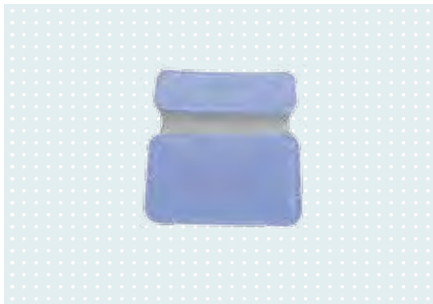
#### Technical data

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**Article number**

28FS300S=LG3-6500

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## Small quick fit electrode

Reference number 28FS300S

The small Quick Fit electrode serves as a spare part for size S of the L300 Go.

### Technical data

Article number	Description
28FS300S=LG3-6800	Small quick fit electrode A (standard)
28FS300S=LG3-6900	Small quick fit electrode B



## Quick fit electrode

Reference number 28FS300S

The quick fit electrode is used as a spare part for L300 Go and L100 Go.

### Technical data

Article number	Side
28FS300S=LG4-1100	left (L)
28FS300S=LG4-1000	right (R)



## Round textile electrode

Reference number 28FS300S

The round textile electrode is used as a spare part for the L300 Go and L100 Go.

### Technical data

Article number	Size	Diameter
28FS300S=LG3-6600	36 mm	36 mm
28FS300S=LG3-4V00	45 mm	45 mm



## Steering electrode

Reference number 28FS300S

The steering electrode is used as a spare part for the L300 Go.

### Technical data

Article number	Side
28FS300S=SCE-1100	left (L)
28FS300S=SCE-1000	right (R)



## Stimulation tester

Reference number 28FS300S=20-0004

The stimulation tester is a spare part for the L300 Go and L100 Go.

### Technical data

Article number
28FS300S=20-0004

# NeuroRehabilitation

## Lower limb



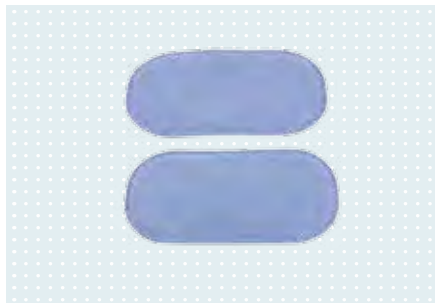
### Cover for thigh cuff

Reference number 28KS300S

Cover as an option for the thigh cuff for the L300 Go Upgrade and Stand Alone

#### Technical data

Article number	Side
28KS300S=L4P-8100	left (L)
28KS300S=L4P-8000	right (R)



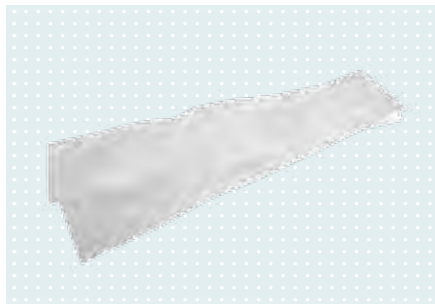
### Textile electrode for thigh, offset

Reference number 28KS300S=L3P-5D00

The offset textile electrodes are options for the L300 Go System Plus Upgrade and Stand Alone.

#### Technical data

Article number
28KS300S=L3P-5D00



### Strap cover, thigh cuff

Reference number 28KS300S=L4P-4A00

The strap covers for the thigh are used as spare parts for the L300 Go.

#### Technical data

Article number	Package contents
28KS300S=L4P-4A00	10 pieces



### Strap holder for thigh cuff

Reference number 28KS300S=L4P-8200

The strap holder for the thigh cuff is used as an option for the L300 Go System Plus Upgrade and Stand Alone.

#### Technical data

Article number
28KS300S=L4P-8200





## Genu Neurexa

Reference number 8165

Knee guiding orthosis for the prevention of hyperextension, primarily following a stroke.

### Features and benefits

- Three-point principle, straps with guaranteed tensile strength, range of motion for splints can be limited, and/or continuously variable cross-strap against hyperextension
  - Counteracts hyperextension of the knee joint during the stance phase; hyperextension strap makes the brace suitable for gait training in therapy
- Brace splint joints adjustable in 10° increments
  - Limits extension and flexion of the knee joint, resulting in pressure distribution, not limited to the hyperextension strap but can also be assumed by extension stops.
- Climate-regulating material
  - High acceptance and wearer comfort
- Front closure
  - Several alternatives for applying the brace
- Machine washable at 40 °C
  - Hygienic

### Indications

- Paresis of leg muscles resulting in hyperextension of the knee following
  - Stroke
  - Intervertebral disc prolapse in the lumbar spine
  - Peripheral nerve damage

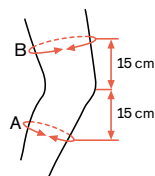
### Modes of action

- Supports and stabilises the knee joint
- Improves proprioception
- Supports sensorimotor function
- Prevents hyperextension
- Promotes the reduction of oedemas and haematomas
- Can relieve pain

### Information material

646D507=EN_INT	Neurexa line – information for practitioners
646F340=EN_INT	Stroke indication matrix
647G601=ALL_INT	8165 Instructions for use

### Technical data



Article number	For size	Colour	Lower leg circumference A	Thigh circumference B
8165=XS-7	XS	Black	32 - 35	38 - 42
8165=XS-9	XS	Beige	32 - 35	38 - 42
8165=S-7	S	Black	35 - 38	42 - 46
8165=S-9	S	Beige	35 - 38	42 - 46
8165=M-7	M	Black	38 - 41	46 - 50
8165=M-9	M	Beige	38 - 41	46 - 50
8165=L-7	L	Black	41 - 44	50 - 54
8165=L-9	L	Beige	41 - 44	50 - 54
8165=XL-7	XL	Black	44 - 48	54 - 58
8165=XL-9	XL	Beige	44 - 48	54 - 58

# NeuroRehabilitation

## Upper limb



## Manu Neurexa plus

Reference number 28P30

Wrist stabilisation orthosis with adjustable wrist joint, can be combined with hand support rest and Omo Neurexa plus.

### Features and benefits

- Only one universal size and side
  - Easy to position and adapt
- Can be combined with the 5065N=\* Omo Neurexa plus without using tools
  - Improved effect
- Can be combined with the 28P31 hand support rest without using tools
  - Can also be worn as a positioning orthosis
- High-quality TriTech climate fabric
  - High wearer comfort
  - Flexible fitting

### Indications

- Incomplete paralysis (paresis) of the forearm and hand musculature, for example due to hemiplegia following a stroke
- Intervertebral disc prolapse in the cervical spine
- Injury of the brachial plexus

### Modes of action

- Relieves the wrist in a continuously variable functional position
- Limits the range of motion of the wrist in the palmar direction
- Holds the hand with either palmar or dorsal support
- Supports gripping ability
- Can prevent malpositions
- Suitable for overnight positioning in combination with the 28P31 hand support rest
- Increased effectiveness for repositioning of the shoulder in combination with the 5065N=\* Omo Neurexa plus
- Can relieve pain

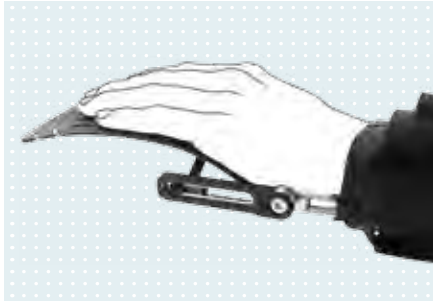
### Technical data

Article number	For size
28P30	Universal

### Information material

646D1126=EN_INT	5065N/28P30 information for practitioners
646D507=EN_INT	Neurexa line – information for practitioners
646D1251=EN_INT	Upper limb stroke information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
647G1282=ALL_INT	28P30 Instructions for use

## Accessory for 28P30



### Hand support rest for the Manu Neurexa plus

Reference number 28P31

The optional hand support rest provides support for the fingers and hand in addition to the fitting with the Manu Neurexa plus. Particularly intended for use during therapy or at night as a night positioning orthosis.

#### Technical data

Reference number	For size
28P31	Universal



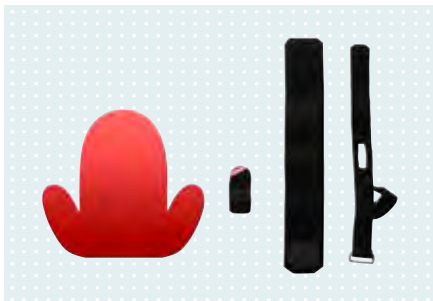
### Pad set for Manu Neurexa plus

Reference number 29P32

Pad set for the Manu Neurexa plus

#### Technical data

Article number	For size
29P32	Universal



### Pad set for hand support rest for 28P31

Reference number 29P31

Pad set for the hand support rest for the Manu Neurexa plus

#### Technical data

Article number	For size
29P31	Universal



## Omo Neurexa plus

Reference number 5065N

Shoulder orthosis, stabilises and relieves the paretic shoulder.

### Features and benefits

- Special orthosis design
  - Can be put on independently with one hand
- Design permits re-alignment of the humeral head
  - Reduces pain; proven to improve gait pattern
- Forearm and shoulder sections with silicone strips on the inside
  - Best possible positioning and firm fit, optimised transmission of tensile forces
- Various lengths of traction elements included in scope of delivery
  - Individual adaptation to various user heights
- Can be combined with the 28P30 Manu Neurexa plus without using tools
  - Improved effect
- TriTech climate-regulating material
  - High acceptance and wearer comfort
- Machine washable at 40°
  - Hygienic

### Indications

- Flaccid and painful restriction of movement in the shoulder and arm musculature
  - Hemiparesis
  - Plexus injury (lesion)
  - Peripheral nerve damage to the cervical spine
  - Subluxation of the shoulder due to neurological causes

### Modes of action

- Realigns the humeral head in the socket
- Improves body posture due to better sensorimotor control, resulting in a more physiological gait pattern
- Supports the arm position in extension with slight exterior rotation
- Reduces spasticity of the upper limbs
- Can relieve pain

### Technical data



Article number	For size	Side	Colour	Chest circumference
5065N=L-XXS-7	XXS	left (L)	Black	73 - 78 cm
5065N=R-XXS-7	XXS	right (R)	Black	73 - 78 cm
5065N=L-XS-7	XS	left (L)	Black	79 - 86 cm
5065N=R-XS-7	XS	right (R)	Black	79 - 86 cm
5065N=L-S-7	S	left (L)	Black	87 - 94 cm
5065N=R-S-7	S	right (R)	Black	87 - 94 cm
5065N=L-L-7	L	left (L)	Black	103 - 110 cm
5065N=R-L-7	L	right (R)	Black	103 - 110 cm
5065N=L-XL-7	XL	left (L)	Black	111 - 118 cm
5065N=R-XL-7	XL	right (R)	Black	111 - 118 cm

### Information material

646D1126=EN_INT	5065N/28P30 information for practitioners
646D507=EN_INT	Neurexa line – information for practitioners
646D1251=EN_INT	Upper limb stroke information for practitioners
646H15=EN_INT	Stroke user information
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
647G1260	5065N Donning guide
647G1224=ALL_INT	5065N Instructions for use



## H200 Wireless

Reference number 28PS200

Based on functional electrical stimulation, the H200 Wireless can improve the hand's active range of motion and provide support for simple grasping movements in everyday life.

### Features and benefits

- Easy one-hand operation
  - Independent use by the patient
- Remote control for selecting the stimulation program
  - Fast switching from functional hand mode to training mode
- Functional electrical stimulation of the hand
  - Improves and utilises hand function
- Regular training possible with training mode
  - Counteracts spasticity, rebuilds musculature
- Training mode
  - Expands active range of motion

### Indications

- Stroke
- Brain injuries (craniocerebral trauma)
- Incomplete spinal cord injury
- Neurological disorders

### Modes of action

- An electrical stimulation impulse causes the forearm musculature to contract, lifting or opening the hand

### Information material

646D1251=EN_INT	Upper limb stroke information for practitioners
646D1243=EN_INT	FES information for practitioners
646D792=EN_INT	Mobilisation following a stroke
646F340=EN_INT	Stroke indication matrix
647G1400=EN	H200 Wireless system quick reference guide (user)
647G1401=EN	H200 Wireless system quick reference guide (practitioners)
647G1396=EN	H200 Wireless system instructions for use

### Technical data

Article number	For size	Side	A Wrist circumference (cm) distal to the ulnar styloid process	B Forearm circumference (cm) 8 cm distal from the lateral epicondyle	C Forearm length (cm) distal wrist fold to elbow fold
28PS200=L-S	S	left (L)	Approx. 14.5–20 cm	Approx. 17–20 cm	> 24 cm
28PS200=R-S	S	right (R)	Approx. 14.5–20 cm	Approx. 17–20 cm	> 24 cm
28PS200=L-M	M	left (L)	Approx. 14.5–20 cm	> 20 cm	> 24 cm
28PS200=R-M	M	right (R)	Approx. 14.5–20 cm	> 20 cm	> 24 cm
28PS200=L-L	L	left (L)	Approx. 17–25 cm	> 20 cm	< 24 cm
28PS200=R-L	L	right (R)	Approx. 17–25 cm	> 20 cm	< 24 cm

Exclusive Distributor for



# NeuroRehabilitation

Upper limb

## Spare parts for 28PS200



### H200 Wireless orthosis

Reference number 28PS200S

The H200 Wireless orthosis is a spare part for the H200 Wireless.

#### Technical data

Article number	For size	Side
28PS200S=H2W-5700	S	left (L)
28PS200S=H2W-5800	S	right (R)
28PS200S=H2W-5900	M	left (L)
28PS200S=H2W-5A00	M	right (R)
28PS200S=H2W-5B00	L	left (L)
28PS200S=H2W-5C00	L	right (R)



### H200 Wireless textile electrodes

Reference number 28PS200S=H2W-5D00

Textile electrodes for the H200 Wireless

#### Technical data

Article number
28PS200S=H2W-5D00



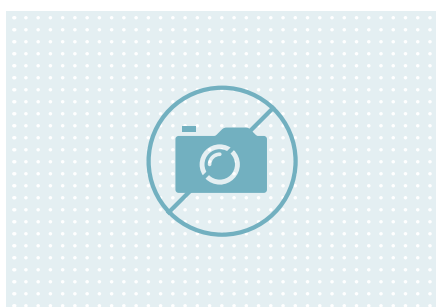
### Set of mounting plates

Reference number 28PS200S

The set of mounting plates is a spare part for the H200 Wireless.

#### Technical data

Article number	For size	Side
28PS200S=HR2-4200	S/M	left (L)
28PS200S=HR2-4300	S/M	right (R)
28PS200S=HR2-4400	L	left (L)
28PS200S=HR2-4500	L	right (R)



### FPL panel

Reference number 28PS200S

The electrode holder close to the wrist is a spare part for the H200 Wireless.

#### Technical data

Article number	For size	Side
28PS200S=H2W-6300	S/M	right (R)
28PS200S=H2W-6400	S/M	left (L)
28PS200S=H2W-6500	L	right (R)
28PS200S=H2W-6600	L	left (L)



## Wrist loop

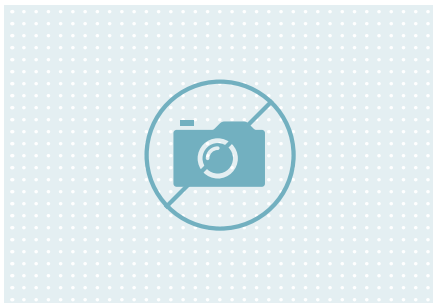
Reference number 28PS200S=HR2-5K00

The wrist loop is a spare part for the H200 Wireless.

### Technical data

#### Article number

28PS200S=HR2-5K00



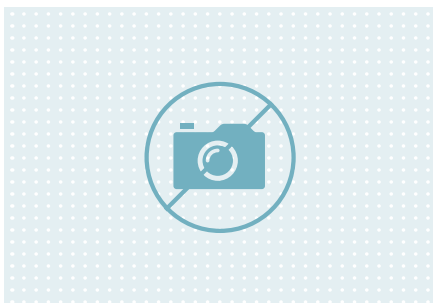
## Wrist pad

Reference number 28PS200S

The wrist pads are spare parts for the H200 Wireless.

### Technical data

Article number	For size	Size	Side
28PS200S=HR2-6J00	S/M	Thin	left (L)
28PS200S=HR2-6M00	S/M	Thin	right (R)
28PS200S=HR2-6H00	S/M	Medium	left (L)
28PS200S=HR2-6L00	S/M	Medium	right (R)
28PS200S=HR2-6G00	S/M	Thick	left (L)
28PS200S=HR2-6K00	S/M	Thick	right (R)
28PS200S=HR2-6600	L	Thin	left (L)
28PS200S=HR2-6900	L	Thin	right (R)
28PS200S=HR2-6500	L	Medium	left (L)
28PS200S=HR2-6800	L	Medium	right (R)
28PS200S=HR2-6400	L	Thick	left (L)
28PS200S=HR2-6700	L	Thick	right (R)



## Wrist pad covers

Reference number 28PS200S

The wrist pad covers are spare parts for the H200 Wireless.

### Technical data

Article number	For size
28PS200S=H2W-6A00	S/M
28PS200S=H2W-6B00	L



## Ball of thumb supports

Reference number 28PS200S

The ball of thumb supports are spare parts for the H200 Wireless.

### Technical data

Article number	For size	Size	Side
28PS200S=HR2-6A00	S/M	medium	left (L)
28PS200S=HR2-6B00	S/M	large	left (L)
28PS200S=HR2-6C00	S/M	medium	right (R)
28PS200S=HR2-6D00	S/M	large	right (R)



# NeuroRehabilitation

## Upper limb



### Screw for wrist pad

Reference number 28PS200S

The screw for the wrist pad is a spare part for the H200 Wireless.

#### Technical data

Article number	For size
28PS200S=HR2-4A00	S/M
28PS200S=HR2-4B00	L



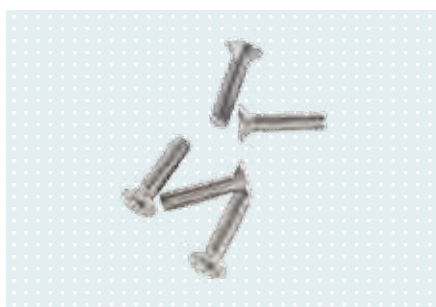
### Screws for ball of thumb support

Reference number 28PS200S=HR2-4C00

The screws for the ball of thumb support are a spare part for the H200 Wireless.

#### Technical data

Article number
28PS200S=HR2-4C00



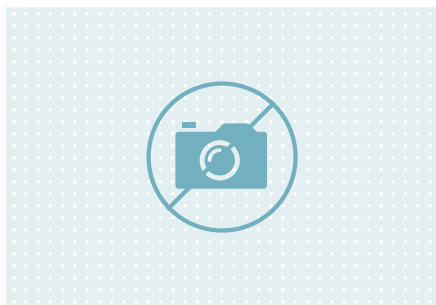
### FPL panel screw

Reference number 28PS200S

The FPL panel screw is a spare part for the H200 Wireless.

#### Technical data

Article number	For size
28PS200S=HR2-4900	S/M
28PS200S=HR2-4800	L



### H200 Wireless system charger

Reference number 28PS200S=L3P-5G00

The H200 Wireless system charger is a spare part for the H200 Wireless.

#### Technical data

Article number
28PS200S=L3P-5G00



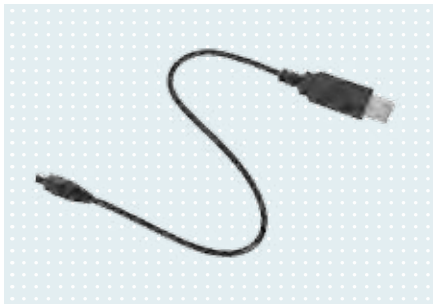
### Y system charging cable

Reference number 28PS200S=LG3-5C00

The Y system charger cable is a spare part for the H200 Wireless.

#### Technical data

Article number
28PS200S=LG3-5C00



## Clinician programmer connection cable

Reference number 28PS200S

Connection cable for H200 Wireless clinician programmer

### Technical data

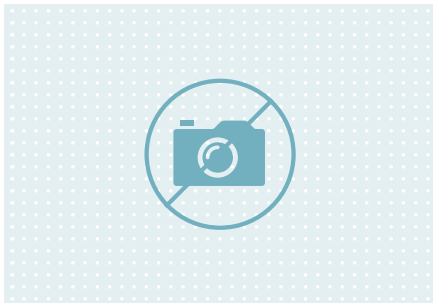
#### Article number

28PS200S=20-0013

28PS200S=HR2-5J00

28PS200S=LG3-5D00

## Accessory for 28PS200



## Belt pouch for remote control

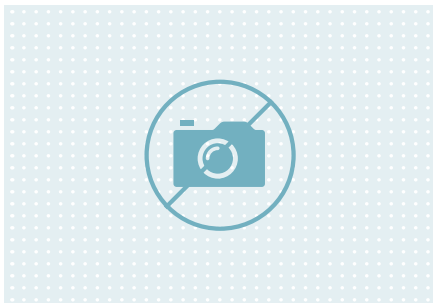
Reference number 28PS200A=20-0007

Belt pouch for the remote control of the H200 Wireless

### Technical data

#### Article number

28PS200A=20-0007



## Flexor attachment plate

Reference number 28PS200A

Flexor attachment plate for H200 Wireless

### Technical data

Article number	For size	Side
28PS200A=HR2-7400	S/M	right (R)
28PS200A=HR2-7500	S/M	right (R)
28PS200A=HR2-7600	S/M	right (R)
28PS200A=HR2-7B00	S/M	left (L)
28PS200A=HR2-7C00	S/M	left (L)
28PS200A=HR2-7D00	S/M	left (L)
28PS200A=HR2-7J00	L	right (R)
28PS200A=HR2-7K00	L	right (R)
28PS200A=HR2-7L00	L	right (R)
28PS200A=HR2-7T00	L	left (L)
28PS200A=HR2-7U00	L	left (L)
28PS200A=HR2-7V00	L	left (L)

# NeuroRehabilitation

## Upper limb



### H200 Wireless remote control

Reference number 28PS200A=H2W-5600

Remote control for the H200 Wireless

#### Technical data

##### Article number

28PS200A=H2W-5600



### Carrying strap for remote control

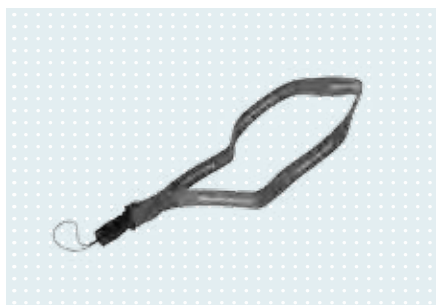
Reference number 28PS200A=20-0005

Neck strap for remote control for H200 Wireless

#### Technical data

##### Article number

28PS200A=20-0005



### Wrist loop for remote control

Reference number 28PS200A=LG3-5H00

Wrist loop for the remote control for the H200 Wireless

#### Technical data

##### Article number

28PS200A=LG3-5H00



### Set of mounting plates

Reference number 28PS200S

The set of mounting plates is a spare part for the H200 Wireless.

#### Technical data

Article number	For size	Side
28PS200S=HR2-4200	S/M	left (L)
28PS200S=HR2-4300	S/M	right (R)
28PS200S=HR2-4400	L	left (L)
28PS200S=HR2-4500	L	right (R)



## Extensor attachment plate

Reference number 28PS200A

The extensor attachment plate is a spare part for the H200 Wireless.

### Technical data

Article number	For size	Side
28PS200A=HR2-7000	S/M	right (R)
28PS200A=HR2-7100	S/M	right (R)
28PS200A=HR2-7200	S/M	right (R)
28PS200A=HR2-7300	S/M	right (R)
28PS200A=HR2-7700	S/M	left (L)
28PS200A=HR2-7800	S/M	left (L)
28PS200A=HR2-7900	S/M	left (L)
28PS200A=HR2-7A00	S/M	right (R)
28PS200A=HR2-7E00	L	right (R)
28PS200A=HR2-7F00	L	right (R)
28PS200A=HR2-7G00	L	right (R)
28PS200A=HR2-7H00	L	right (R)
28PS200A=HR2-7M00	L	left (L)
28PS200A=HR2-7N00	L	left (L)
28PS200A=HR2-7P00	L	left (L)
28PS200A=HR2-7R00	L	right (R)





# AFO

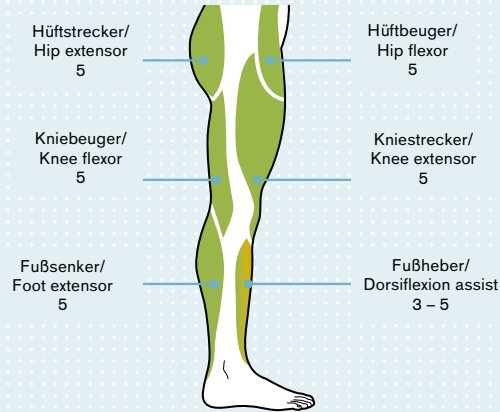
All ankle joints and dynamic components are presented in this section.



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### BILATERAL



17AF2



17AF10  
X-ible



17B62



17B60  
17B61  
17B64  
17B100  
17F36



17Y128  
17Y129



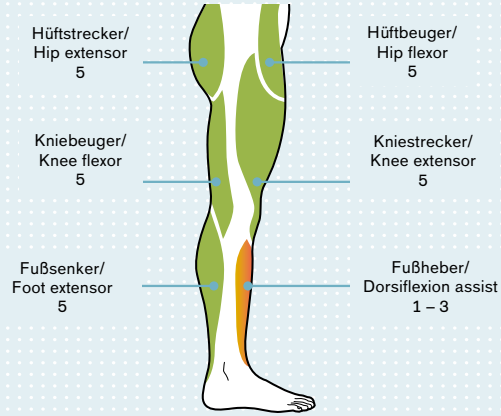
17B38  
17B39



17AF10 X-ible  
vorflektiert/with dorsal  
assist



**BILATERAL**



17PA1



17AD1



17B63



17B99  
17B101  
17B107  
17B108  
17F70



17Y128  
17Y129



17B38  
17B39



17B66



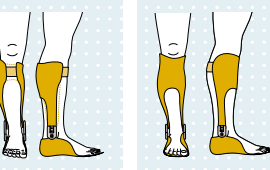
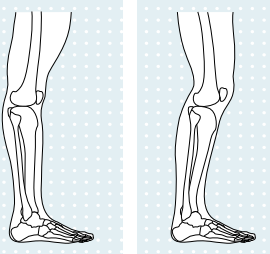
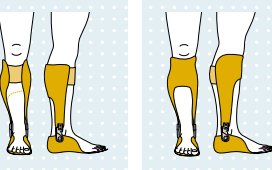
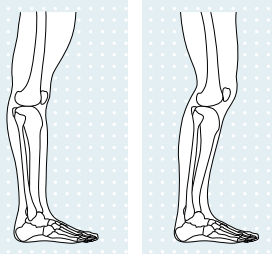
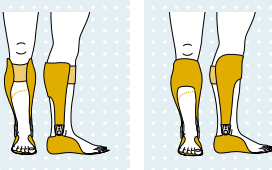
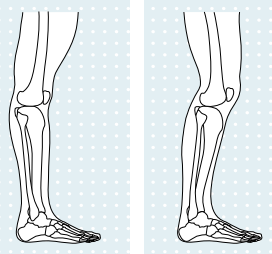
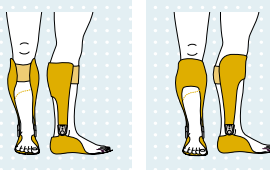
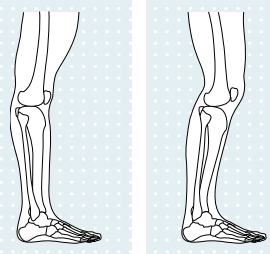
17Y128  
17Y129

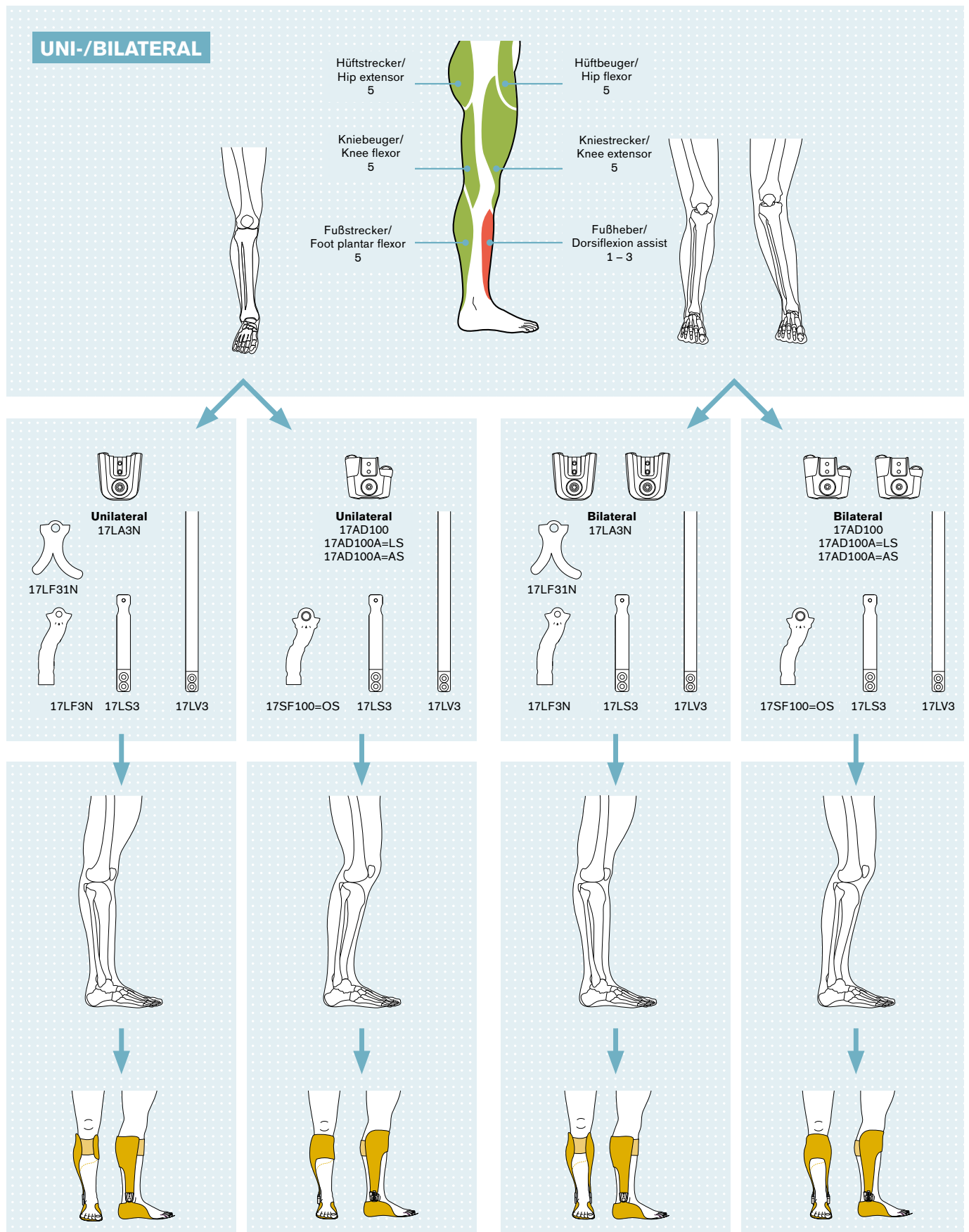


17B113  
17B114  
17B115  
17B116

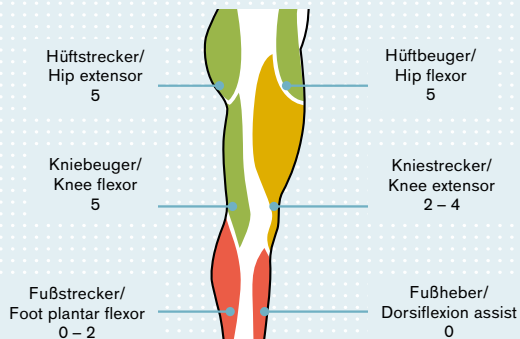


17B38  
17B39





UNI-/BILATERAL



**Unilateral**  
17AD100  
17AD100A=HS  
17AD100A=HS

17SF100=OS    17LS3    17LV3

17CF1

**Bilateral**  
17AD100  
17AD100A=HS  
17AD100A=HS

17SF100=OS    17LS3    17LV3

17CF1



### X-ible

Reference number 17AF10

Stabilises the ankle joint in the frontal plane.



#### Technical data

Article number	Size	Length	Quantity unit
17AF10=S	S	3.2 cm	2
17AF10=M	M	3.8 cm	2
17AF10=L	L	4.5 cm	2



### X-ible

Reference number 17AF10

Pre-flexed to support dorsiflexion in the sagittal plane.



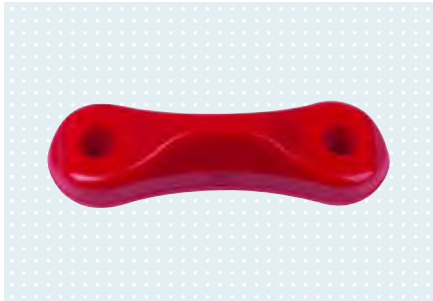
#### Technical data

Article number	Size	Length	Degree of hardness	Quantity unit
17AF10=S-DA-LT	S	3.2 cm	75	2
17AF10=S-DA-MD	S	3.2 cm	85	2
17AF10=S-DA-ST	S	3.2 cm	95	2
17AF10=M-DA-LT	M	3.8 cm	75	2
17AF10=M-DA-MD	M	3.8 cm	85	2
17AF10=M-DA-ST	M	3.8 cm	95	2
17AF10=L-DA-LT	L	4.5 cm	75	2
17AF10=L-DA-MD	L	4.5 cm	85	2
17AF10=L-DA-ST	L	4.5 cm	95	2

#### Information material

646D1205=EN_INT	17AF10 information for practitioners
646D1306=EN_INT	Ankle joint selection guide
646F595=EN_MASTER	Ankle joints overview
646F465=ALL_INT	AFO selection guide
646T523=EN	Technical information – X-ible Flexible ankle joints, fabrication of an orthosis using thermoplastic technology
647G1234	17AF10 instructions for use

## Spare parts for 17AF10



## Dummy for 17AF10

Reference number 17AF10A

**Technical data****Article number**

17AF10A=DY-S

17AF10A=DY-M

17AF10A=DY-L

**Spare part for**

17AF10=S  
 17AF10=S-DA-LT  
 17AF10=S-DA-MD  
 17AF10=S-DA-ST

17AF10=M  
 17AF10=M-DA-LT  
 17AF10=M-DA-MD  
 17AF10=M-DA-ST

17AF10=L  
 17AF10=L-DA-LT  
 17AF10=L-DA-MD  
 17AF10=L-DA-ST



### Free motion ankle joint

Reference number 17AF2

For use in thermoplastic AFOs. No maintenance required. With parallel alignment tool.



#### Technical data

Article number	Overall length upper section – foot stirrup	Material	Quantity unit
17AF2=77	77,5 mm	Stainless steel	Pair

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
646D1306=EN_INT	Ankle joint selection guide
646F595=EN_MASTER	Ankle joints overview
646F465=ALL_INT	AFO selection guide
647G166	17AD1/17AF2 instructions for use



### Ankle joint bar for children

Reference number 17F34

Free-motion ankle joint bar

Range of motion of +/- 30° adjustable by filing upper section of ankle joint bar  
Forged foot stirrup, flat bar profile, fixed joint, upper sections and foot stirrup



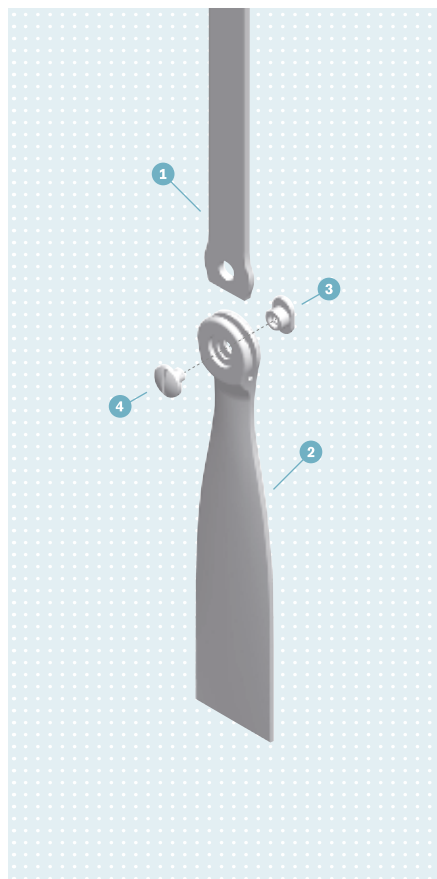
#### Technical data

Article number	Bar length	Bar width	Bar thickness	Stirrup length from joint centre	Stirrup width	Joint head Ø	Material	Quantity unit
17F34=6	180 mm	12 mm	2 mm	115 mm	25 mm	16 mm	Stainless steel	Pair
17F34=5	240 mm	14 mm	2 mm	130 mm	30 mm	18 mm	Stainless steel	Pair

#### Information material

646F595=EN_MASTER	Ankle joints overview
647G2	Instructions for use – system/leg bars

## Spare parts for 17F34

**(1) Ankle joint bar, upper section**

Reference number 17A4

**Technical data**

Article number	Spare part for	Bar length	Bar width	Bar thickness	Material	Quantity unit
17A4=5	17F34=5	240 mm	14 mm	2 mm	Stainless steel	Piece
17A4=6	17F34=6	180 mm	12 mm	2 mm	Stainless steel	Piece

**(2) Foot stirrup**

Reference number 17C4

**Technical data**

Article number	Spare part for	Stirrup length	Joint head Ø	Material	Quantity unit
17C4=5	17F34=5	130 mm	18 mm	Stainless steel	Piece
17C4=6	17F34=6	115 mm	16 mm	Stainless steel	Piece

**(3) Bearing nut, hardened**

Reference number 17Y93

**Technical data**

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6X4.75XM4	17F34=5 17F34=6	3.5 mm	12 mm	4.75 mm	M4	6 mm	Piece
17Y93=6.5X4.75XM4	17F34=5 17F34=6	3.5 mm	12 mm	4.75 mm	M4	6.5 mm	Piece
17Y93=7X4.75XM4	17F34=5 17F34=6	3.5 mm	12 mm	4.75 mm	M4	7 mm	Piece

**(4) Slotted truss head screw**

Reference number 501S32

**Technical data**

Article number	Spare part for	Length	Head Ø	Thread	Material	Quantity unit
501S32=M4X10X7.5	17F34=5 17F34=6	7.5 mm	10 mm	M4	Stainless steel	Piece





### Ankle joint bar for children

Reference number 17F24

Free-motion ankle joint bar Range of motion of +/- 30° adjustable by filing upper section of ankle joint bar

Forged foot stirrup, fixed joint, upper sections and foot stirrup



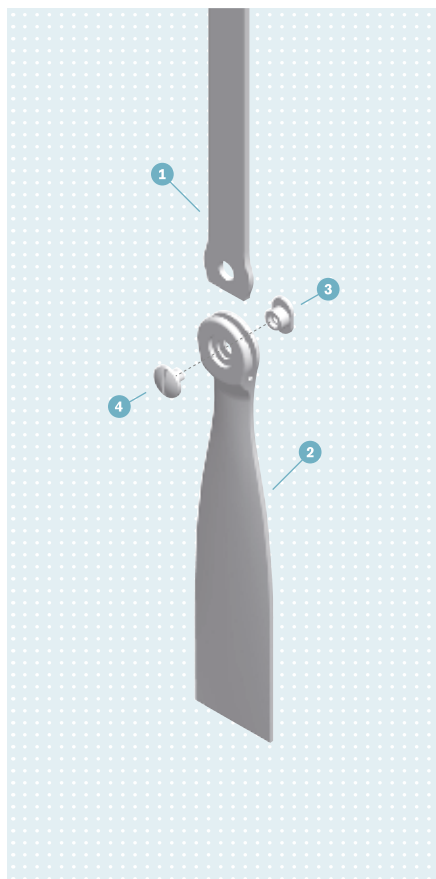
#### Technical data

Article number	Bar length	Bar width	Bar thickness	Stirrup length from joint centre	Stirrup width	Joint head Ø	Quantity unit
17F24=5	300 mm	15 mm	3 mm	130 mm	40 mm	20 mm	Pair
17F24=4	300 mm	15 mm	3 mm	130 mm	40 mm	22 mm	Pair
17F24=2	390 mm	18 mm	3 mm	150 mm	40 mm	24 mm	Pair

#### Information material

646F595=EN_MASTER	Ankle joints overview
647G2	Instructions for use – system/leg bars

## Spare parts for 17F24



## (1) Ankle joint bar, upper section

Reference number 17A3

## Technical data

Article number	Spare part for	Bar length	Bar width	Bar thickness	Material	Quantity unit
17A3=2	17F24=2	390 mm	18 mm	3 mm	Stainless steel	Piece
17A3=4	17F24=4	300 mm	15 mm	3 mm	Stainless steel	Piece
17A3=5	17F24=5	300 mm	15 mm	3 mm	Stainless steel	Piece

## (2) Foot stirrup with bearing nut and truss head screw

Reference number 17C3

## Technical data

Article number	Spare part for	Stirrup length	Joint head Ø	Material	Quantity unit
17C3=2	17F24=2	150 mm	24 mm	Stainless steel	Piece
17C3=4	17F24=4	130 mm	22 mm	Stainless steel	Piece
17C3=5	17F24=5	130 mm	20 mm	Stainless steel	Piece

## (3) Bearing nut, hardened

Reference number 17Y93

## Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=7X7XM5	17F24=2 17F24=4 17F24=5	5.5 mm	12 mm	7 mm	M5	7 mm	Piece
17Y93=7.5X7XM5	17F24=2 17F24=4 17F24=5	5.55 mm	12 mm	7 mm	M5	7.5 mm	Piece

## (4) Slotted truss head screw

Reference number 501S32

## Technical data

Article number	Length	Head Ø	Thread	Material	Quantity unit
501S32=M5X12X9.5	9.5 mm	12 mm	M5	Stainless steel	Piece



### System ankle joint

Reference number 17B62

System ankle joint with range of motion of +/- 30°, to be established by filing the foot stirrup

Contoured medial joint, straight lateral joint

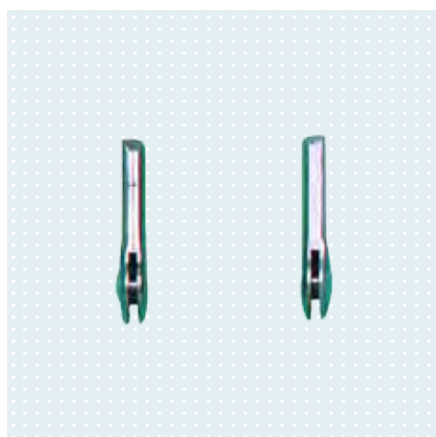


#### Technical data

Article number	System width	Joint head Ø	Slot width	Length from joint center	Material	Quantity unit
17B62=16	16 mm	22 mm	2.5 mm	41 mm	Stainless steel	Pair
17B62=20	20 mm	24.5 mm	3 mm	41 mm	Stainless steel	Pair

#### Information material

646D1306=EN_INT	Ankle joint selection guide
646F465=ALL_INT	AFO selection guide
646F595=EN_MASTER	Ankle joints overview
647G2	Instructions for use – system/leg bars



### System ankle joint

Reference number 17B57

System ankle joint with range of motion of +/- 30°, to be established by filing the foot stirrup

Straight medial and lateral joints

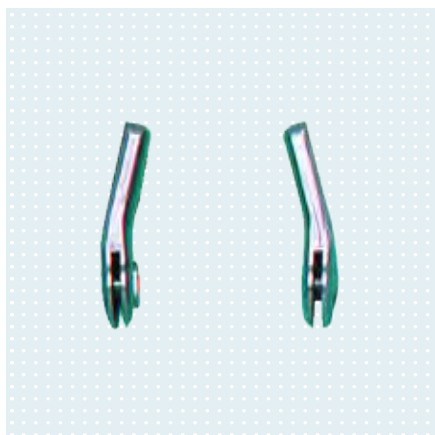


#### Technical data

Article number	System width	Joint head Ø	Slot width	Length from joint center	Quantity unit
17B57=16	16 mm	22 mm	2.5 mm	41 mm	Pair
17B57=20	20 mm	24 mm	3 mm	41 mm	Pair

#### Information material

646F595=EN_MASTER	Ankle joints overview
647G2	Instructions for use – system/leg bars



## System ankle joint

Reference number 17B54

System ankle joint with range of motion of +/- 30°, to be established by filing the foot stirrup

Contoured medial and lateral joints

### Technical data

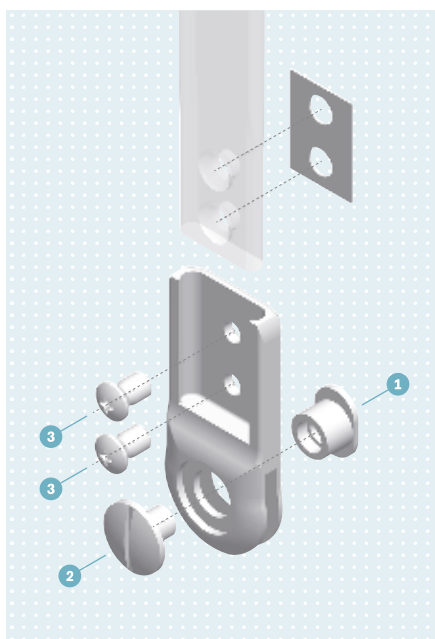
Article number	System width	Joint head Ø	Slot width	Length from joint center	Quantity unit
17B54=16	16 mm	22 mm	2.5 mm	41 mm	Pair
17B54=20	20 mm	24 mm	3 mm	41 mm	Pair

• The joint can be ordered separately under article numbers 17A54=16 and 17A54=20.

### Information material

646F595=EN_MASTER	Ankle joints overview
647G2	Instructions for use – system/leg bars

## Spare parts for 17B62, 17B57, 17B54



### (1) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=7X6.8XM5	17B54=16 17B57=16 17B62=16	5.55 mm	12 mm	6.8 mm	M5	7 mm	Piece
17Y93=9X7.2XM6	17B54=20 17B57=20 17B62=20	6 mm	14 mm	7.2 mm	M6	9 mm	Piece

### (2) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	System width	Length	Head Ø	Thread	Overall length	Material	Quantity unit
501S32=M6X14X10	16/ 20 mm	10 mm	14 mm	M6	10 mm	Stainless steel	Piece
501S32=M5X12X9.5	16 mm	9.5 mm	12 mm	M5	9.5 mm	Stainless steel	Piece

### (3) Phillips oval countersunk head screw

Reference number 501T7

#### Technical data

Article number	Spare part for	Length	Head Ø	Material	Quantity unit
501T7=7.5X9XM5	17B54=16 17B54=20 17B57=16 17B57=20 17B62=16 17B62=20	9 mm	7.5 mm	Stainless steel	Piece



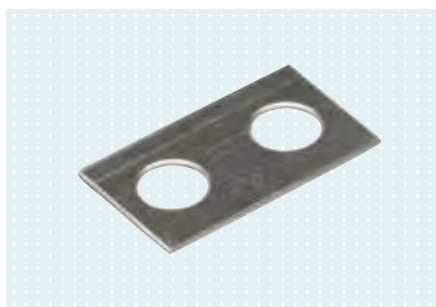
### Brass bushing

Reference number 17Y17

Brass bushing for joint centre piece

#### Technical data

Article number	System width	Material	Quantity unit
17Y17=7X9X2.4	16 mm	Brass	Piece
17Y17=9X11X2.9	20 mm	Brass	Piece



### Shim plate

Reference number 17Y42

To compensate for the difference in thickness between 4 mm thick side bars and 5 mm thick connections of the system joints

#### Technical data

Article number	For bar width	Plate width	Material
17Y42=12	16 mm	12 mm	Stainless steel
17Y42=15	20 mm	15 mm	Stainless steel

## Accessory for 17B62, 17B57, 17B54



### System foot stirrup

Reference number 17B55

with brass bushing



#### Technical data

Article number	System width	Thickness	Length from joint center	Material	Quantity unit
17B55=145X2.5	16 mm	2.5 mm	145 mm	Stainless steel	Piece
17B55=165X3	20 mm	3 mm	165 mm	Stainless steel	Piece



### System lamination foot stirrup

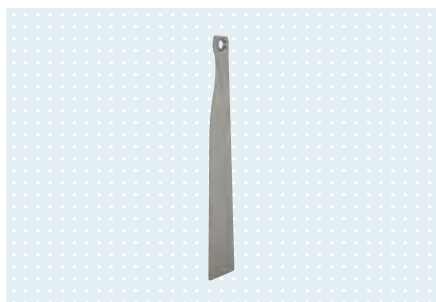
Reference number 17B100

with brass bushing



#### Technical data

Article number	System width	Thickness	Length from joint center	Material	Quantity unit
17B100=16	16 mm	2.5 mm	63 mm	Stainless steel	Piece
17B100=20	20 mm	3 mm	63 mm	Stainless steel	Piece



## System foot stirrup

Reference number 17B61

overlength, with brass bushing



### Technical data

Article number	System width	Thickness	Length from joint center	Material	Quantity unit
17B61=250	20 mm	3 mm	250 mm	Stainless steel	Piece



## Forked system foot stirrup

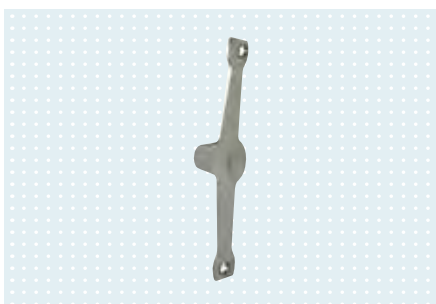
Reference number 17B60

forked, with brass bushing



### Technical data

Article number	System width	Thickness	Caster fork width front/rear	Material	Quantity unit
17B60=180	16 mm	2.5 mm	180/170 mm	Stainless steel	Piece
17B60=205	20 mm	3 mm	205/190 mm	Stainless steel	Piece



## System shoe stirrup

Reference number 17F36



### Technical data

Article number	System width	Thickness	Length from joint center	Material	Quantity unit
17F36=150X2.5	16 mm	2.5 mm	150 mm	Stainless steel	Piece
17F36=180X2.5	16 mm	2.5 mm	180 mm	Stainless steel	Piece
17F36=200X2.5	16 mm	2.5 mm	200 mm	Stainless steel	Piece
17F36=220X2.5	16 mm	2.5 mm	220 mm	Stainless steel	Piece
17F36=240X2.5	16 mm	2.5 mm	240 mm	Stainless steel	Piece
17F36=260X2.5	16 mm	2.5 mm	260 mm	Stainless steel	Piece
17F36=280X2.5	16 mm	2.5 mm	280 mm	Stainless steel	Piece
17F36=300X2.5	16 mm	2.5 mm	300 mm	Stainless steel	Piece
17F36=200X3	20 mm	3 mm	200 mm	Stainless steel	Piece
17F36=220X3	20 mm	3 mm	220 mm	Stainless steel	Piece
17F36=240X3	20 mm	3 mm	240 mm	Stainless steel	Piece
17F36=260X3	20 mm	3 mm	260 mm	Stainless steel	Piece
17F36=280X3	20 mm	3 mm	280 mm	Stainless steel	Piece
17F36=300X3	20 mm	3 mm	300 mm	Stainless steel	Piece



### System foot stirrup

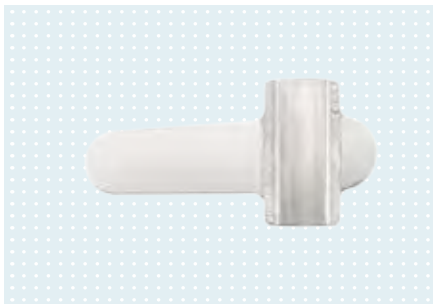
Reference number 17B64

with brass bushing



#### Technical data

Article number	System width	Thickness	Channel width	Head Ø	Length from joint center	Material	Quantity unit
17B64=145X2.5	16 mm	2.5 mm	19 mm	22 mm	145 mm	Stainless steel	Piece
17B64=165X3	20 mm	3 mm	22 mm	24 mm	165 mm	Stainless steel	Piece



### System shoe plate, hardened

Reference number 17F35

#### Technical data

Article number	Accessories for	Side	Length	Channel width	Material	Quantity unit
17F35=L120	17B54=16 17B57=16 17B62=16	left (L)	120 mm	19 mm	Stainless steel	Piece
17F35=L150	17B54=20 17B57=20 17B62=20	left (L)	150 mm	22 mm	Stainless steel	Piece
17F35=R120	17B54=16 17B57=16 17B62=16	right (R)	120 mm	19 mm	Stainless steel	Piece
17F35=R150	17B54=20 17B57=20 17B62=20	right (R)	150 mm	22 mm	Stainless steel	Piece



### System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece



### System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece





## Lower leg side bar

Reference number 17B5

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B5=L16	left (L)	16 mm	450 mm	4 mm	Piece
17B5=R16	right (R)	16 mm	450 mm	4 mm	Piece
17B5=L16-T	left (L)	16 mm	450 mm	4 mm	Piece
17B5=R16-T	right (R)	16 mm	450 mm	4 mm	Piece
17B5=L20	left (L)	20 mm	450 mm	4 mm	Piece
17B5=R20	right (R)	20 mm	450 mm	4 mm	Piece
17B5=L20-T	left (L)	20 mm	450 mm	4 mm	Piece
17B5=R20-T	right (R)	20 mm	450 mm	4 mm	Piece



## Lower leg side bar

Reference number 17B7

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B7=L16	left (L)	16 mm	450 mm	5 mm	Piece
17B7=R16	right (R)	16 mm	450 mm	5 mm	Piece
17B7=L20	left (L)	20 mm	450 mm	5 mm	Piece
17B7=R20	right (R)	20 mm	450 mm	5 mm	Piece



## Lower leg side bar

Reference number 17B87

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B87=L16	left (L)	16 mm	450 mm	4 mm	Piece
17B87=R16	right (R)	16 mm	450 mm	4 mm	Piece
17B87=L20	left (L)	20 mm	450 mm	4 mm	Piece
17B87=R20	right (R)	20 mm	450 mm	4 mm	Piece

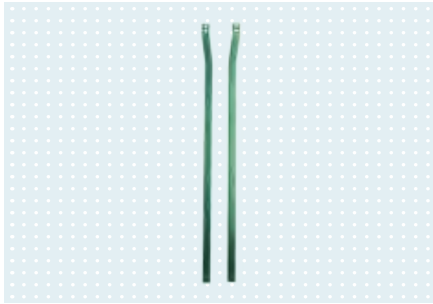


## Lower leg side bar

Reference number 17B89

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B89=L16	left (L)	16 mm	450 mm	5 mm	Piece
17B89=R16	right (R)	16 mm	450 mm	5 mm	Piece
17B89=L20	left (L)	20 mm	450 mm	5 mm	Piece
17B89=R20	right (R)	20 mm	450 mm	5 mm	Piece



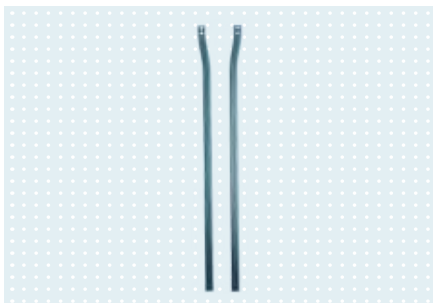
### Lower leg side bar

Reference number 17B102

Lower leg side bar made of stainless steel

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B102=L16	left (L)	16 mm	560 mm	4 mm	Piece
17B102=R16	right (R)	16 mm	560 mm	4 mm	Piece
17B102=L20	left (L)	20 mm	560 mm	4 mm	Piece
17B102=R20	right (R)	20 mm	560 mm	4 mm	Piece



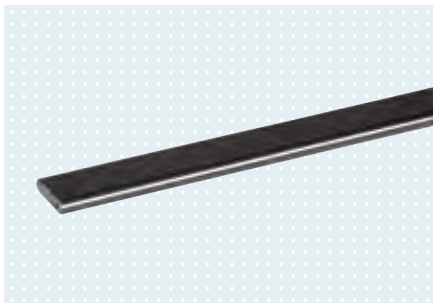
### Lower leg side bar

Reference number 17B104

Lower leg side bar from the 17B41 side bar set

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B104=L16	left (L)	16 mm	560 mm	5 mm	Piece
17B104=R16	right (R)	16 mm	560 mm	5 mm	Piece
17B104=L20	left (L)	20 mm	560 mm	5 mm	Piece
17B104=R20	right (R)	20 mm	560 mm	5 mm	Piece



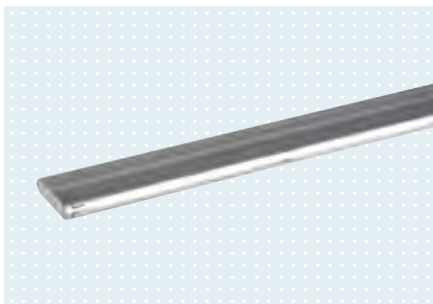
### Stainless steel profile rod

Reference number 651P4

Suitable for fabricating system bars, with rounded edges, strength of approx. 800–950 N/mm<sup>2</sup>, spot weldable

#### Technical data

Article number	Length	Width	Thickness
651P4=16	2,000 mm	16 mm	4 mm
651P4=20	2,000 mm	20 mm	4 mm



### Light metal profile bar

Reference number 605P8

Suitable for fabricating system splints, with rounded edges, strength approx. 400 N/mm<sup>2</sup>

#### Technical data

Article number	Length	Width	Thickness
605P8=16	2,000 mm	16 mm	5 mm
605P8=20	2,000 mm	20 mm	5 mm



## System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



## System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



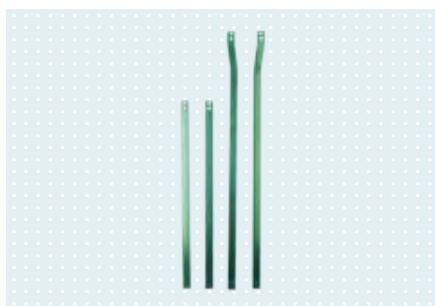
## System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



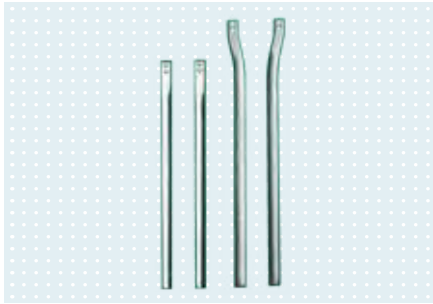
## System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



### System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



### System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set



## Ankle joint bar

Reference number 17F31



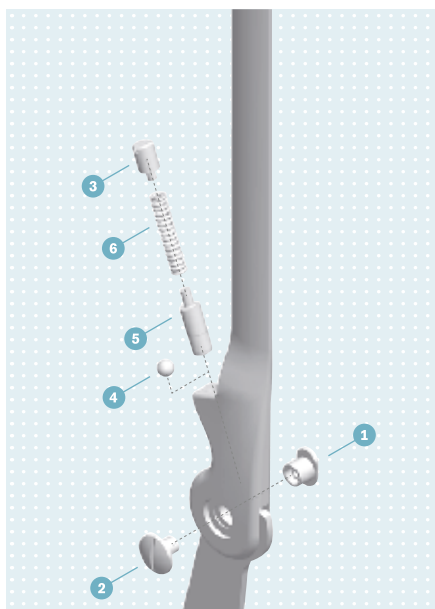
### Technical data

Article number	Side	Bar width	Joint head Ø	Slot width	Material	Quantity unit
17F31=L26X2.5	left (L)	15 mm	26 mm	2.5 mm	Stainless steel	Piece
17F31=L28X3	left (L)	16 mm	28 mm	3 mm	Stainless steel	Piece
17F31=L30X3	left (L)	17 mm	30 mm	3 mm	Stainless steel	Piece
17F31=R26X2.5	right (R)	15 mm	26 mm	2.5 mm	Stainless steel	Piece
17F31=R28X3	right (R)	16 mm	28 mm	3 mm	Stainless steel	Piece
17F31=R30X3	right (R)	17 mm	30 mm	3 mm	Stainless steel	Piece

### Information material

646F595=EN_MASTER	Ankle joints overview
647G3	Instructions for use – system/leg bars

## Spare parts for 17F31



### (1) Bearing nut, hardened

Reference number 17Y93

### Technical data

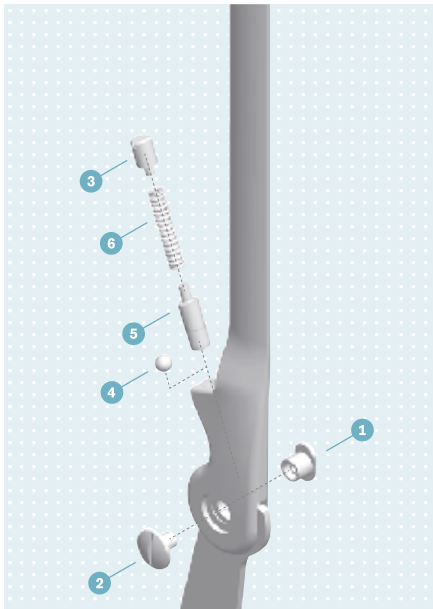
Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=7X6.8XM5	17F31=L26X2.5 17F31=R26X2.5	5.55 mm	12 mm	6.8 mm	M5	7 mm	Piece
17Y93=7.5X6.8XM5	17F31=L26X2.5 17F31=R26X2.5	5.55 mm	12 mm	6.8 mm	M5	7.5 mm	Piece
17Y93=9X7.2XM6	17F31=L28X3 17F31=L30X3 17F31=R28X3 17F31=R30X3	6 mm	14 mm	7.2 mm	M6	9 mm	Piece
17Y93=9.5X7.2XM6	17F31=L28X3 17F31=L30X3 17F31=R28X3 17F31=R30X3	6 mm	14 mm	7.2 mm	M6	9.5 mm	Piece

### (2) Slotted truss head screw

Reference number 501S32

### Technical data

Article number	Spare part for	Length	Overall length	Thread	Head Ø	Material	Quantity unit
501S32=M5X12X9.5	17F31=L26X2.5 17F31=R26X2.5 17F32=L26X2.5 17F32=R26X2.5	9.5 mm	9.5 mm	M5	12 mm	Stainless steel	Piece
501S32=M6X14X10	17F31=L28X3 17F31=L30X3 17F31=R28X3 17F31=R30X3	10 mm	10 mm	M6	14 mm	Stainless steel	Piece



### (3) Set screw with slot

Reference number 17Y18

#### Technical data

Article number	Spare part for	System width	Thread	Thread length	Material	Quantity unit
17Y18=M6X11	17F31=R26X2.5 17F31=L26X2.5	16 mm	M6	11 mm	Stainless steel	Piece
17Y18=M7X13	17F31=L28X3 17F31=R28X3 17F31=L30X3 17F31=R30X3	20 mm	M7	13 mm	Stainless steel	Piece

### (4) Bearing ball

Reference number 509Y2

#### Technical data

Article number	Spare part for	For system width	Material	Quantity unit
509Y2=3/16"	17F31=R26X2.5 17F31=L26X2.5	16 mm	Stainless steel	Piece

### (5) Thrust piece with ball

Reference number 17Y80

#### Technical data

Article number	Spare part for	For system width	Quantity unit
17Y80	17F31=L28X3 17F31=R28X3 17F31=L30X3 17F31=R30X3	20 mm	Piece

### (6) Compression spring

Reference number 513D18

#### Technical data

Article number	Spare part for	Quantity unit
513D18=4.7X31	17F31=R26X2.5 17F31=L26X2.5	Piece
513D18=5.5X35	17F31=L28X3 17F31=R28X3	Piece
513D18=5.5X45	17F31=L30X3 17F31=R30X3	Piece

## Accessory for 17F31



## Foot stirrup

Reference number 17B58

## Technical data

Article number	Accessories for	Bar width	Thick-ness	Stirrup length	Head Ø	Material	Quantity unit
17B58=26X2.5X145	17F31=L26X2.5 17F31=R26X2.5	16 mm	2.5 mm	145 mm	26 mm	Stainless steel	Piece
17B58=28X3X165	17F31=L28X3 17F31=R28X3	20 mm	3 mm	165 mm	28 mm	Stainless steel	Piece
17B58=30X3X165	17F31=L30X3 17F31=R30X3	20 mm	3 mm	165 mm	30 mm	Stainless steel	Piece



## Shoe stirrup

Reference number 17F33

## Technical data

Article number	Accessories for	Thick-ness	Head Ø	Length from joint centre to joint centre	Material	Quantity unit
17F33=150X2.5	17F31=L26X2.5 17F31=R26X2.5	2.5 mm	26 mm	150 mm	Stainless steel	Piece
17F33=180X2.5	17F31=L26X2.5 17F31=R26X2.5	2.5 mm	26 mm	180 mm	Stainless steel	Piece
17F33=200X2.5	17F31=L26X2.5 17F31=R26X2.5	2.5 mm	26 mm	200 mm	Stainless steel	Piece
17F33=200X3	17F31=L28X3 17F31=R28X3	3 mm	28 mm	200 mm	Stainless steel	Piece
17F33=220X2.5	17F31=L26X2.5 17F31=R26X2.5	2.5 mm	26 mm	220 mm	Stainless steel	Piece
17F33=220X3	17F31=L28X3 17F31=R28X3	3 mm	28 mm	220 mm	Stainless steel	Piece
17F33=240X2.5	17F31=L26X2.5 17F31=R26X2.5	2.5 mm	26 mm	240 mm	Stainless steel	Piece
17F33=240X3	17F31=L28X3 17F31=R28X3	3 mm	28 mm	240 mm	Stainless steel	Piece
17F33=260X2.5	17F31=L26X2.5 17F31=R26X2.5	2.5 mm	26 mm	260 mm	Stainless steel	Piece
17F33=260X3	17F31=L30X3 17F31=R30X3	3 mm	30 mm	260 mm	Stainless steel	Piece
17F33=280X2.5	17F31=L26X2.5 17F31=R26X2.5	2.5 mm	26 mm	280 mm	Stainless steel	Piece
17F33=280X3	17F31=L30X3 17F31=R30X3	3 mm	30 mm	280 mm	Stainless steel	Piece
17F33=300X2.5	17F31=L26X2.5 17F31=R26X2.5	2.5 mm	26 mm	300 mm	Stainless steel	Piece
17F33=300X3	17F31=L30X3 17F31=R30X3	3 mm	30 mm	300 mm	Stainless steel	Piece

● Up to 420 mm of extra length is available for an additional charge.





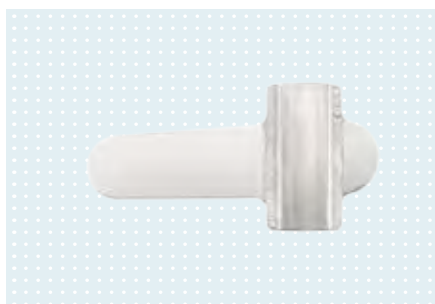
### System foot stirrup

Reference number 17B65

for 17F35 system shoe plate

#### Technical data

Article number	Accessories for	System width	Thickness	Channel width	Head Ø	Length from joint center	Material	Quantity unit
17B65=26X2.5X145	17F31=L26X2.5 17F31=R26X2.5	16 mm	2.5 mm	19 mm	26 mm	145 mm	Stainless steel	Piece
17B65=28X3X165	17F31=L28X3 17F31=R28X3	20 mm	3 mm	22 mm	28 mm	165 mm	Stainless steel	Piece
17B65=30X3X165	17F31=L30X3 17F31=R30X3	20 mm	3 mm	22 mm	30 mm	165 mm	Stainless steel	Piece



### System shoe plate, hardened

Reference number 17F35

with insert piece

#### Technical data

Article number	Accessories for	Side	Length	Channel width	Insertion depth	System width	Material	Quantity unit
17F35=L120	17F31=L26X2.5 17F31=R26X2.5	left (L)	120 mm	19 mm	60 mm	16 mm	Stainless steel	Piece
17F35=L150	17F31=L28X3 17F31=L30X3 17F31=R28X3 17F31=R30X3	left (L)	150 mm	22 mm	80 mm	20 mm	Stainless steel	Piece
17F35=R120	17F31=L26X2.5 17F31=R26X2.5	right (R)	120 mm	19 mm	60 mm	16 mm	Stainless steel	Piece
17F35=R150	17F31=L28X3 17F31=R28X3 17F31=L30X3 17F31=R30X3	right (R)	150 mm	22 mm	80 mm	20 mm	Stainless steel	Piece



## Ankle joint bar

Reference number 17F32



### Technical data

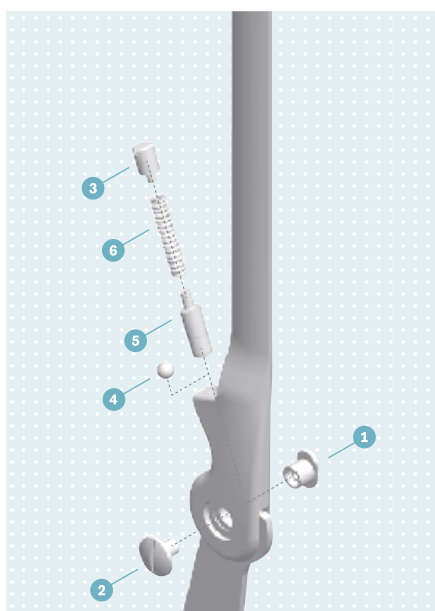
Article number	Side	Bar width	Joint head Ø	Slot width	Material	Quantity unit
17F32=L26X2.5	left	15 mm	26 mm	2.5 mm	Aluminium	Piece
17F32=L28X3	left	16 mm	28 mm	3 mm	Aluminium	Piece
17F32=L30X3	left	17 mm	30 mm	3 mm	Aluminium	Piece
17F32=R26X2.5	right	15 mm	26 mm	2.5 mm	Aluminium	Piece
17F32=R28X3	right	16 mm	28 mm	3 mm	Aluminium	Piece
17F32=R30X3	right	17 mm	30 mm	3 mm	Aluminium	Piece

### Information material

646F595=EN\_MASTER Ankle joints overview

647G3 Instructions for use – system/leg bars

## Spare parts for 17F32



### (1) Bearing nut, hardened

Reference number 17Y93

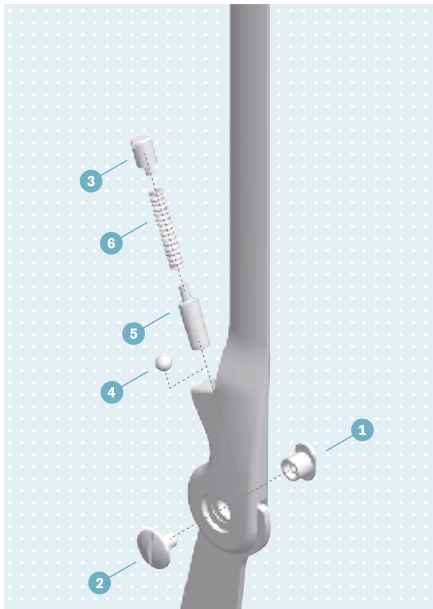
### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=7X6.8XM5	17F32=L26X2.5 17F32=R26X2.5	5.55 mm	12 mm	6.8 mm	M5	7 mm	Piece
17Y93=7.5X6.8XM5	17F32=L26X2.5 17F32=R26X2.5	5.55 mm	12 mm	6.8 mm	M5	7.5 mm	Piece
17Y93=9X7.2XM6	17F32=L28X3 17F32=L30X3 17F32=R28X3 17F32=R30X3	6 mm	14 mm	7.2 mm	M6	9 mm	Piece
17Y93=9.5X7.2XM6	17F32=L28X3 17F32=L30X3 17F32=R28X3 17F32=R30X3	6 mm	14 mm	7.2 mm	M6	9.5 mm	Piece

### (2) Slotted truss head screw

Reference number 501S32

Article number	Spare part for	Length	Overall length	Thread	Head Ø	Material	Quantity unit
501S32=M5X12X9.5	17F32=L26X2.5 17F32=R26X2.5	9.5 mm	9.5 mm	M5	12 mm	Stainless steel	Piece
501S32=M6X14X10	17F32=L28X3 17F32=R28X3 17F32=L30X3 17F32=R30X3	10 mm	10 mm	M6	14 mm	Stainless steel	Piece



### (3) Set screw with slot

Reference number 17Y18

#### Technical data

Article number	Spare part for	System width	Thread	Thread length	Material	Quantity unit
17Y18=M6X11	17F32=R26X2.5 17F32=L26X2.5	16 mm	M6	11 mm	Stainless steel	Piece
17Y18=M7X13	17F32=L28X3 17F32=R28X3 17F32=R30X3 17F32=L30X3	20 mm	M7	13 mm	Stainless steel	Piece

### (4) Bearing ball

Reference number 509Y2

#### Technical data

Article number	Spare part for	For system width	Material	Quantity unit
509Y2=3/16"	17F32=R26X2.5 17F32=L26X2.5	16 mm	Stainless steel	Piece

### (5) Thrust piece with ball

Reference number 17Y80

#### Technical data

Article number	Spare part for	For system width	Quantity unit
17Y80	17F32=L30X3 17F32=L28X3 17F32=R28X3 17F32=R30X3	20 mm	Piece

### (6) Compression spring

Reference number 513D18

#### Technical data

Article number	Spare part for	Length	Shoulder Ø	Quantity unit
513D18=4.7X31	17F32=R26X2.5 17F32=L26X2.5	31 mm	4.7 mm	Piece
513D18=5.5X35	17F32=L28X3 17F32=R28X3	35 mm	5.5 mm	Piece
513D18=5.5X45	17F32=R30X3 17F32=L30X3	45 mm	5.5 mm	Piece

## Accessory for 17F32



## Foot stirrup

Reference number 17B58

## Technical data

Article number	Accessories for	Bar width	Thick-ness	Stirrup length	Head Ø	Material	Quantity unit
17B58=26X2.5X145	17F32=L26X2.5 17F32=R26X2.5	16 mm	2.5 mm	145 mm	26 mm	Stainless steel	Piece
17B58=28X3X165	17F32=L28X3 17F32=R28X3	20 mm	3 mm	165 mm	28 mm	Stainless steel	Piece
17B58=30X3X165	17F32=L30X3 17F32=R30X3	20 mm	3 mm	165 mm	30 mm	Stainless steel	Piece



## Shoe stirrup

Reference number 17F33

## Technical data

Article number	Accessories for	Thickness	Head Ø	Length from joint centre to joint centre	Material	Quantity unit
17F33=150X2.5	17F32=L26X2.5 17F32=R26X2.5	2.5 mm	26 mm	150 mm	Stainless steel	Piece
17F33=180X2.5	17F32=L26X2.5 17F32=R26X2.5	2.5 mm	26 mm	180 mm	Stainless steel	Piece
17F33=200X2.5	17F32=L26X2.5 17F32=R26X2.5	2.5 mm	26 mm	200 mm	Stainless steel	Piece
17F33=200X3	17F32=L28X3 17F32=R28X3	3 mm	28 mm	200 mm	Stainless steel	Piece
17F33=220X2.5	17F32=L26X2.5 17F32=R26X2.5	2.5 mm	26 mm	220 mm	Stainless steel	Piece
17F33=220X3	17F32=L28X3 17F32=R28X3	3 mm	28 mm	220 mm	Stainless steel	Piece
17F33=240X2.5	17F32=L26X2.5 17F32=R26X2.5	2.5 mm	26 mm	240 mm	Stainless steel	Piece
17F33=240X3	17F32=L28X3 17F32=R28X3	3 mm	28 mm	240 mm	Stainless steel	Piece
17F33=260X2.5	17F32=L26X2.5 17F32=R26X2.5	2.5 mm	26 mm	260 mm	Stainless steel	Piece
17F33=260X3	17F32=L30X3 17F32=R30X3	3 mm	30 mm	260 mm	Stainless steel	Piece
17F33=280X2.5	17F32=L26X2.5 17F32=R26X2.5	2.5 mm	26 mm	280 mm	Stainless steel	Piece
17F33=280X3	17F32=L30X3 17F32=R30X3	3 mm	30 mm	280 mm	Stainless steel	Piece
17F33=300X2.5	17F32=L26X2.5 17F32=R26X2.5	2.5 mm	26 mm	300 mm	Stainless steel	Piece
17F33=300X3	17F32=L30X3 17F32=R30X3	3 mm	30 mm	300 mm	Stainless steel	Piece



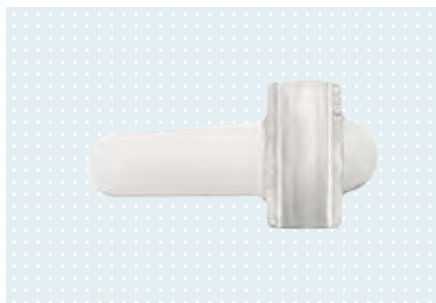
### System foot stirrup

Reference number 17B65

for 17F35 system shoe plate

#### Technical data

Article number	Accessories for	System width	Thick-ness	Channel width	Head Ø	Length from joint center	Material	Quantity unit
17B65=26X2.5X145	17F32=L26X2.5 17F32=R26X2.5	16 mm	2.5 mm	19 mm	26 mm	145 mm	Stainless steel	Piece
17B65=28X3X165	17F32=L28X3 17F32=R28X3	20 mm	3 mm	22 mm	28 mm	165 mm	Stainless steel	Piece
17B65=30X3X165	17F32=L30X3 17F32=R30X3	20 mm	3 mm	22 mm	30 mm	165 mm	Stainless steel	Piece



### System shoe plate, hardened

Reference number 17F35

#### Technical data

Article number	Accessories for	Side	Length	Channel width	Material	Quantity unit
17F35=L120	17F32=L26X2.5 17F32=R26X2.5	left (L)	120 mm	19 mm	Stainless steel	Piece
17F35=L150	17F32=L28X3 17F32=L30X3 17F32=R28X3 17F32=R30X3	left (L)	150 mm	22 mm	Stainless steel	Piece
17F35=R120	17F32=L26X2.5 17F32=R26X2.5	right (R)	120 mm	19 mm	Stainless steel	Piece
17F35=R150	17F32=L28X3 17F32=L30X3 17F32=R28X3 17F32=R30X3	right (R)	150 mm	22 mm	Stainless steel	Piece



## System ankle joint

Reference number 17B63

Joint with dorsiflexion function and dorsal stop to be established by filing the foot stirrup  
Contoured medial joint, straight lateral joint, with compression spring



### Technical data

Article number	System width	Side	Joint head Ø	Slot width	Length from joint center	Material	Quantity unit
17B63=L16	16 mm	left (L)	26 mm	2.5 mm	57 mm	Stainless steel	Pair
17B63=L20	20 mm	left (L)	28 mm	3 mm	66 mm	Stainless steel	Pair
17B63=R16	16 mm	right (R)	26 mm	2.5 mm	57 mm	Stainless steel	Pair
17B63=R20	20 mm	right (R)	28 mm	3 mm	66 mm	Stainless steel	Pair

### Information material

646D1306=EN_INT	Ankle joint selection guide
646F595=EN_MASTER	Ankle joints overview
646F465=ALL_INT	AFO selection guide
647G2	Instructions for use – system/leg bars

### **i** Practical recommendation 17B63

- Increased wear and tear to the spring due to fully compressing it.
- We recommend using 636K8=20X2X10 Plastaband to isolate the joints for the lamination resin technique.



## System ankle joint

Reference number 17B59

Joint with dorsiflexion function and dorsal stop to be established by filing the foot stirrup  
Straight medial and lateral joints, with compression spring



### Technical data

Article number	System width	Joint head Ø	Slot width	Length from joint center	Material	Quantity unit
17B59=16	16 mm		2.5 mm	57 mm	Stainless steel	Pair
17B59=20	20 mm		3 mm	66 mm	Stainless steel	Pair

### Information material

646F595=EN_MASTER	Ankle joints overview
647G2	Instructions for use – system/leg bars

### **i** Practical recommendation 17B59

- Increased wear of the spring due to fully compressing it.
- We recommend using 636K8=20X2X10 Plastaband to isolate the joints for the lamination resin technique.



### System ankle joint

Reference number 17B53

Joint with dorsiflexion function and foot stirrup with dorsal stop that can be filed  
Contoured medial and lateral joints, with compression spring



#### Technical data

Article number	System width	Joint head Ø	Slot width	Length from joint center	Material	Quantity unit
17B53=16	16 mm	26 mm	2.5 mm	57 mm	Stainless steel	Pair
17B53=20	20 mm	28 mm	3 mm	66 mm	Stainless steel	Pair

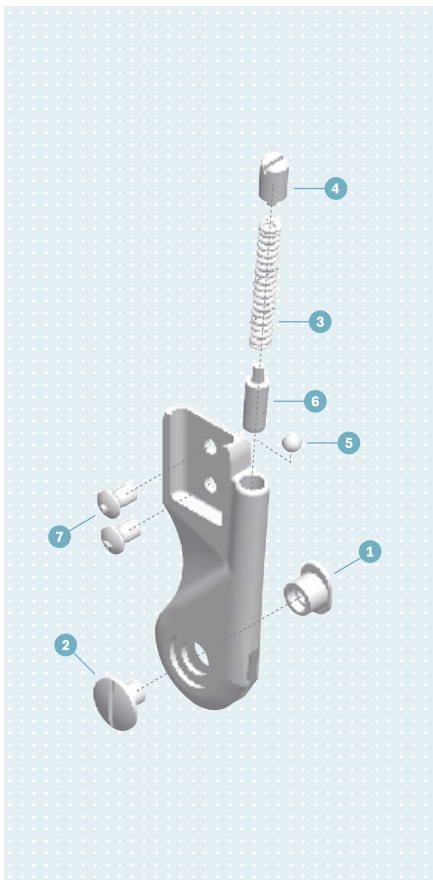
#### Information material

646F595=EN_MASTER	Ankle joints overview
647G2	Instructions for use – system/leg bars

#### **i** Practical recommendation 17B53

- Increased wear of the spring due to fully compressing it.
- We recommend using 636K8=20X2X10 Plastaband to isolate the joints for the lamination resin technique.

## Spare parts for 17B63, 17B59, 17B53



### (1) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=7X6.8XM5	17B53=16 17B59=16 17B63=L16 17B63=R16	5.55 mm	12 mm	6.8 mm	M5	7 mm	Piece
17Y93=9X7.2XM6	17B53=20 17B63=L20 17B63=R20 17B59=20	6 mm	14 mm	7.2 mm	M6	9 mm	Piece

### (2) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	System width	Head Ø	Thread	Overall length	Material	Quantity unit
501S32=M5X12X9.5	16 mm	12 mm	M5	9.5 mm	Stainless steel	Piece
501S32=M6X14X10	16/ 20 mm	14 mm	M6	10 mm	Stainless steel	Piece

### (3) Compression spring

Reference number 513D18

#### Technical data

Article number	System width	Length	Shoulder Ø	Quantity unit
513D18=4.7X31	16 mm	31 mm	4.7 mm	Piece
513D18=5.5X35	20 mm	35 mm	5.5 mm	Piece



## (4) Set screw with slot

Reference number 17Y18

### Technical data

Article number	Spare part for	System width	Thread	Thread length	Material	Quantity unit
17Y18=M6X11	17B53=16 17B59=16 17B63=L16 17B63=R16	16 mm	M6	11 mm	Stainless steel	Piece
17Y18=M7X13	17B63=L20 17B63=R20 17B59=20 17B53=20	20 mm	M7	13 mm	Stainless steel	Piece

## (5) Bearing ball

Reference number 509Y2

### Technical data

Article number	Spare part for	For system width	Material	Quantity unit
509Y2=3/16"	17B53=16 17B59=16 17B63=L16 17B63=R16	16 mm	Stainless steel	Piece

## (6) Thrust piece with ball

Reference number 17Y80

### Technical data

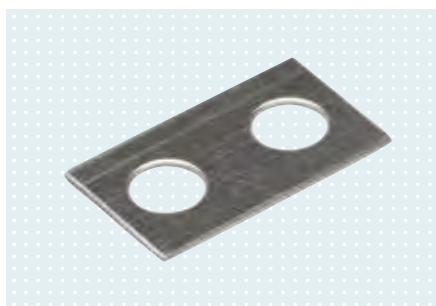
Article number	Spare part for	For system width	Quantity unit
17Y80	17B63=L20 17B63=R20 17B59=20 17B53=20	20 mm	Piece

## (7) Phillips oval countersunk head screw

Reference number 501T7

### Technical data

Article number	Head Ø	Length	Material	Quantity unit
501T7=7.5X9XM5	7.5 mm	9 mm	Stainless steel	Piece



## Shim plate

Reference number 17Y42

To compensate for the difference in thickness between 4 mm thick side bars and 5 mm thick connections of the system joints

### Technical data

Article number	For bar width	Plate width	Material
17Y42=12	16 mm	12 mm	Stainless steel
17Y42=15	20 mm	15 mm	Stainless steel



### Brass bushing

Reference number 17Y17

Brass bushing for joint centre piece

#### Technical data

Article number	System width	Material	Quantity unit
17Y17=7X9X2.4	16 mm	Brass	Piece
17Y17=9X11X2.9	20 mm	Brass	Piece

## Accessory for 17B63, 17B59, 17B53



### System foot stirrup

Reference number 17B108

With brass bushing, dorsal stop that can be filed and 20° plantar flexion



#### Technical data

Article number	System width	Thickness	Length from joint center	Material	Quantity unit
17B108=145X2.5	16 mm	2.5 mm	145 mm	Stainless steel	Piece
17B108=165X3	20 mm	3 mm	165 mm	Stainless steel	Piece



### System lamination foot stirrup

Reference number 17B99

Free motion up to 20° dorsal extension and 20° plantar flexion, with brass bushing



#### Technical data

Article number	System width	Thickness	Length from joint center	Material	Quantity unit
17B99=16	16 mm	2.5 mm	63 mm	Stainless steel	Piece
17B99=20	20 mm	3 mm	63 mm	Stainless steel	Piece



### System lamination foot stirrup

Reference number 17B101

With dorsal stop and 20° plantar flexion, with brass bushing



#### Technical data

Article number	System width	Thickness	Length from joint center	Material	Quantity unit
17B101=16	16 mm	2.5 mm	63 mm	Stainless steel	Piece
17B101=20	20 mm	3 mm	63 mm	Stainless steel	Piece



## Foot stirrup

Reference number 17B107

With dorsal stop that can be filed and 20° plantar flexion, with brass bushing



### Technical data

Article number	System width	Thickness	Stirrup length	Stirrup width	Length from joint center	Material	Quantity unit
17B107=145X2.5	16 mm	2.5 mm	145 mm	19 mm	145 mm	Stainless steel	Piece
17B107=165X3	20 mm	3 mm	165 mm	22 mm	165 mm	Stainless steel	Piece



## System shoe stirrup

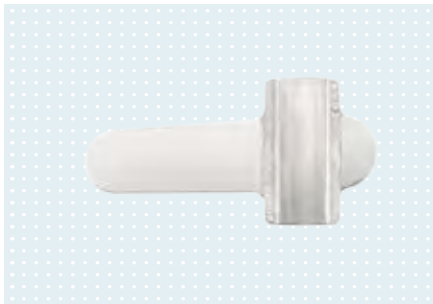
Reference number 17F70

With brass bushing, dorsal stop that can be filed and 20° plantar flexion



### Technical data

Article number	System width	Thickness	Length from joint centre to joint centre	Quantity unit
17F70=150X2.5	16 mm	2.5 mm	150 mm	Piece
17F70=180X2.5	16 mm	2.5 mm	180 mm	Piece
17F70=200X2.5	16 mm	2.5 mm	200 mm	Piece
17F70=220X2.5	16 mm	2.5 mm	220 mm	Piece
17F70=240X2.5	16 mm	2.5 mm	240 mm	Piece
17F70=260X2.5	16 mm	2.5 mm	260 mm	Piece
17F70=280X2.5	16 mm	2.5 mm	280 mm	Piece
17F70=300X2.5	16 mm	2.5 mm	300 mm	Piece
17F70=200X3	20 mm	3 mm	200 mm	Piece
17F70=220X3	20 mm	3 mm	220 mm	Piece
17F70=240X3	20 mm	3 mm	240 mm	Piece
17F70=260X3	20 mm	3 mm	260 mm	Piece
17F70=280X3	20 mm	3 mm	280 mm	Piece
17F70=300X3	20 mm	3 mm	300 mm	Piece
17F70=320X3	20 mm	3 mm	320 mm	Piece
17F70=340X3	20 mm	3 mm	340 mm	Piece
17F70=360X3	20 mm	3 mm	360 mm	Piece
17F70=380X3	20 mm	3 mm	380 mm	Piece
17F70=400X3	20 mm	3 mm	400 mm	Piece
17F70=420X3	20 mm	3 mm	420 mm	Piece



### System shoe plate, hardened

Reference number 17F35

With insert piece

#### Technical data

Article number	Accessories for	Side	Length	Channel width	Material	Quantity unit
17F35=L120	17B53=16 17B59=16 17B63=L16 17B63=R16	left (L)	120 mm	19 mm	Stainless steel	Piece
17F35=L150	17B53=20 17B59=20 17B63=L20 17B63=R20	left (L)	150 mm	22 mm	Stainless steel	Piece
17F35=R120	17B53=16 17B59=16 17B63=L16 17B63=R16	right (R)	120 mm	19 mm	Stainless steel	Piece
17F35=R150	17B53=20 17B59=20 17B63=L20 17B63=R20	right (R)	150 mm	22 mm	Stainless steel	Piece



### System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece



### System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece

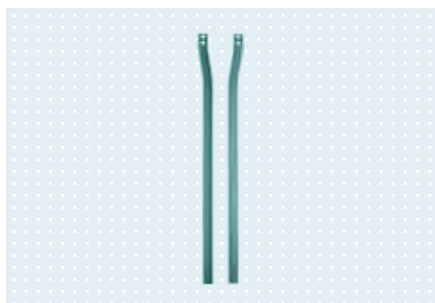


## Lower leg side bar

Reference number 17B5

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B5=L16	left (L)	16 mm	450 mm	4 mm	Piece
17B5=R16	right (R)	16 mm	450 mm	4 mm	Piece
17B5=L16-T	left (L)	16 mm	450 mm	4 mm	Piece
17B5=R16-T	right (R)	16 mm	450 mm	4 mm	Piece
17B5=L20	left (L)	20 mm	450 mm	4 mm	Piece
17B5=R20	right (R)	20 mm	450 mm	4 mm	Piece
17B5=L20-T	left (L)	20 mm	450 mm	4 mm	Piece
17B5=R20-T	right (R)	20 mm	450 mm	4 mm	Piece



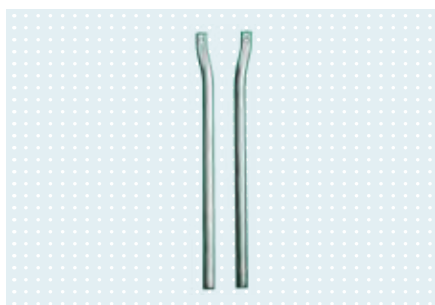
## Lower leg side bar

Reference number 17B7

Lower leg side bar for the 17B39 system side bar set

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B7=L16	left (L)	16 mm	450 mm	5 mm	Piece
17B7=R16	right (R)	16 mm	450 mm	5 mm	Piece
17B7=L20	left (L)	20 mm	450 mm	5 mm	Piece
17B7=R20	right (R)	20 mm	450 mm	5 mm	Piece



## Lower leg side bar

Reference number 17B87

Lower leg side bar for the 17B84 system side bar set

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B87=L16	left (L)	16 mm	450 mm	4 mm	Piece
17B87=R16	right (R)	16 mm	450 mm	4 mm	Piece
17B87=L20	left (L)	20 mm	450 mm	4 mm	Piece
17B87=R20	right (R)	20 mm	450 mm	4 mm	Piece



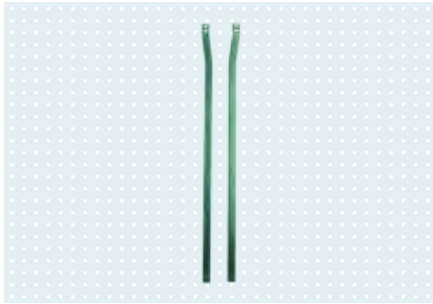
## Lower leg side bar

Reference number 17B89

Lower leg side bar for 17B85

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B89=L16	left (L)	16 mm	450 mm	5 mm	Piece
17B89=R16	right (R)	16 mm	450 mm	5 mm	Piece
17B89=L20	left (L)	20 mm	450 mm	5 mm	Piece
17B89=R20	right (R)	20 mm	450 mm	5 mm	Piece



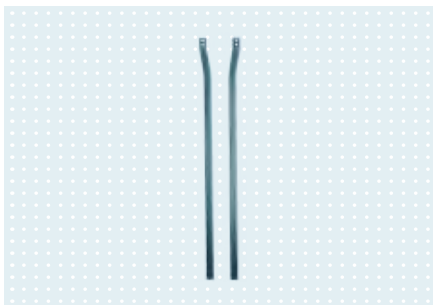
### Lower leg side bar

Reference number 17B102

Lower leg side bar made of stainless steel

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B102=L16	left (L)	16 mm	560 mm	4 mm	Piece
17B102=R16	right (R)	16 mm	560 mm	4 mm	Piece
17B102=L20	left (L)	20 mm	560 mm	4 mm	Piece
17B102=R20	right (R)	20 mm	560 mm	4 mm	Piece



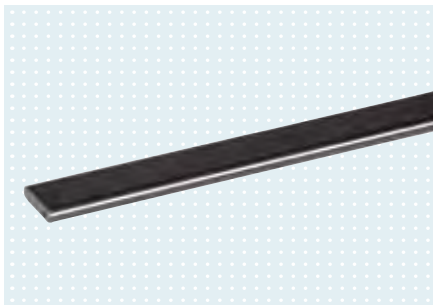
### Lower leg side bar

Reference number 17B104

Lower leg side bar from the 17B41 side bar set

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B104=L16	left (L)	16 mm	560 mm	5 mm	Piece
17B104=R16	right (R)	16 mm	560 mm	5 mm	Piece
17B104=L20	left (L)	20 mm	560 mm	5 mm	Piece
17B104=R20	right (R)	20 mm	560 mm	5 mm	Piece



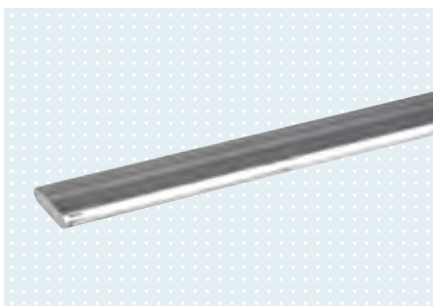
### Stainless steel profile rod

Reference number 651P4

Suitable for fabricating system bars, with rounded edges, strength of approx. 800–950 N/mm<sup>2</sup>, spot weldable

#### Technical data

Article number	Length	Width	Thickness
651P4=16	2,000 mm	16 mm	4 mm
651P4=20	2,000 mm	20 mm	4 mm



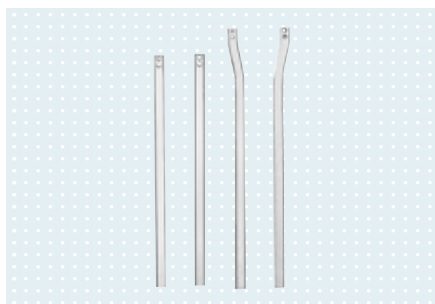
### Light metal profile bar

Reference number 605P8

Suitable for fabricating system splints, with rounded edges, strength approx. 400 N/mm<sup>2</sup>

#### Technical data

Article number	Length	Width	Thickness
605P8=16	2,000 mm	16 mm	5 mm
605P8=20	2,000 mm	20 mm	5 mm



## System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



## System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



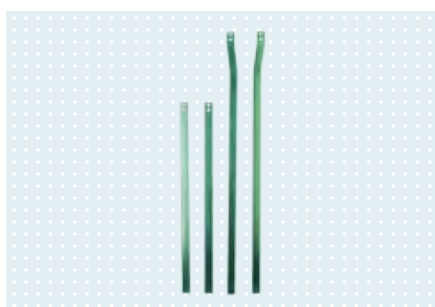
## System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



## System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set





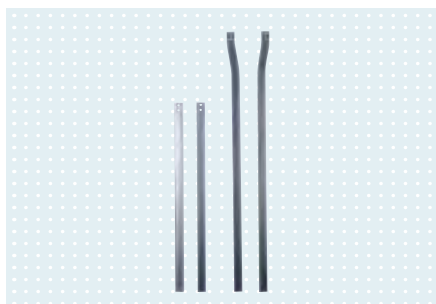
### System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



### System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set



## Multifunction orthotic ankle joint

Reference number 17AD1

For use in thermoplastic ankle-foot orthoses. Dorsal and plantar limitation or spring support. With parallel alignment tool.



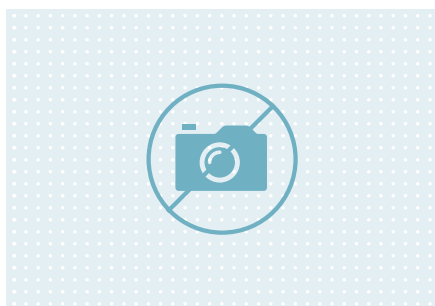
### Technical data

Article number	Max. body weight	Overall length upper section – foot stirrup	Material	Quantity unit
17AD1=120	100 kg	120 mm	Stainless steel	Pair
17AD1=93	35 kg	93 mm	Stainless steel	Pair

### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
646D1306=EN_INT	Ankle joint selection guide
646F595=EN_MASTER	Ankle joints overview
646F465=ALL_INT	AFO selection guide
647G166=ALL_INT	17AD1/17AF2 instructions for use

## Spare part for 17AD1



## Service set

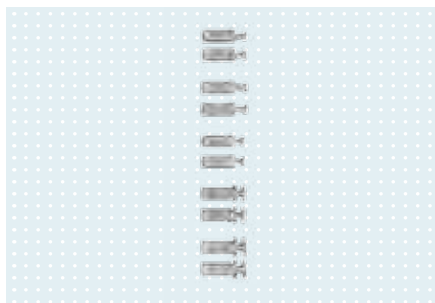
Reference number 17AS=19

Service set for 17AD1

### Technical data

Article number	Scope of delivery
17AS=19	Bearing nut Compression spring Flat round disk with slot Red washer

## Accessory for 17AD1



## Alignment insert set

Reference number 743Y57

### Technical data

Article number	Accessories for
743Y57	17AD1=120 17AD1=93



### Unilateral system ankle joint

Reference number 17LA3N

The 17LA3N unilateral ankle joint is a multifunction system ankle joint with a dorsiflexion effect.



#### Technical data

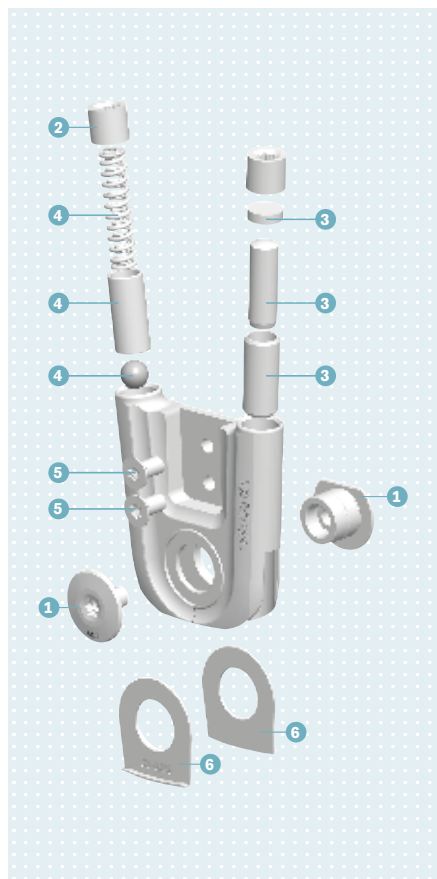
Article number	System width	Max. body weight	Material	Quantity unit
17LA3N=10	10 mm	15 kg (unilateral) / 25 kg (bilateral)	Steel	Piece
17LA3N=10-T	10 mm	15 kg (unilateral) / 25 kg (bilateral)	Titanium	Piece
17LA3N=12	12 mm	20 kg (unilateral) / 40 kg (bilateral)	Steel	Piece
17LA3N=12-T	12 mm	20 kg (unilateral) / 40 kg (bilateral)	Titanium	Piece
17LA3N=14	14 mm	50 kg (unilateral) / 80 kg (bilateral)	Steel	Piece
17LA3N=14-T	14 mm	50 kg (unilateral) / 80 kg (bilateral)	Titanium	Piece
17LA3N=16	16 mm	85 kg (unilateral) / 120 kg (bilateral)	Steel	Piece
17LA3N=16-T	16 mm	85 kg (unilateral) / 120 kg (bilateral)	Titanium	Piece
17LA3N=20	20 mm	110 kg (unilateral) / 160 kg (bilateral)	Steel	Piece
17LA3N=20-T	20 mm	110 kg (unilateral) / 160 kg (bilateral)	Titanium	Piece

#### Information material

646D789=EN_INT	Unilateral joint system information for practitioners
647F473=EN_INT	Unilateral joint system order form
646D1306=EN_INT	Ankle joint selection guide
646F595=EN_MASTER	Ankle joints overview
646F465=ALL_INT	AFO selection guide
646F464=ALL_INT	KAFO selection guide
646T5441=EN_INT	Technical information – Fabrication of a definitive KAFO
647G1252=ALL_INT	17LA3N instructions for use

- When using the product unilaterally, the next higher size must be used in cases where there is flexion contracture in the knee or hip greater than 10°; or distinct torsion or valgus/varus instabilities; or increased physical activity.
- Use the product bilaterally if there is any ischial support or valgus/varus malpositions greater than 10°
- Lamination bar and foot stirrup are not included in scope of delivery! Please order separately.

## Spare parts for 17LA3N



### (1) Spare part set screwing

Reference number 17LA32N

#### Technical data

Article number	Spare part for	Quantity unit
17LA32N=10	17LA3N=10 17LA3N=10-T	Piece
17LA32N=12	17LA3N=12 17LA3N=12-T	Piece
17LA32N=14	17LA3N=14 17LA3N=14-T	Piece
17LA32N=16	17LA3N=16 17LA3N=16-T	Piece
17LA32N=20	17LA3N=20 17LA3N=20-T	Piece

### (2) Set screw

Reference number 30Y309

#### Technical data

Article number	Spare part for	Quantity unit
30Y309=12	17LA3N=14 17LA3N=14-T	Piece
30Y309=20	17LA3N=16 17LA3N=16-T 17LA3N=20 17LA3N=20-T	Piece

### (2) Set screw

Reference number 30Y349

#### Technical data

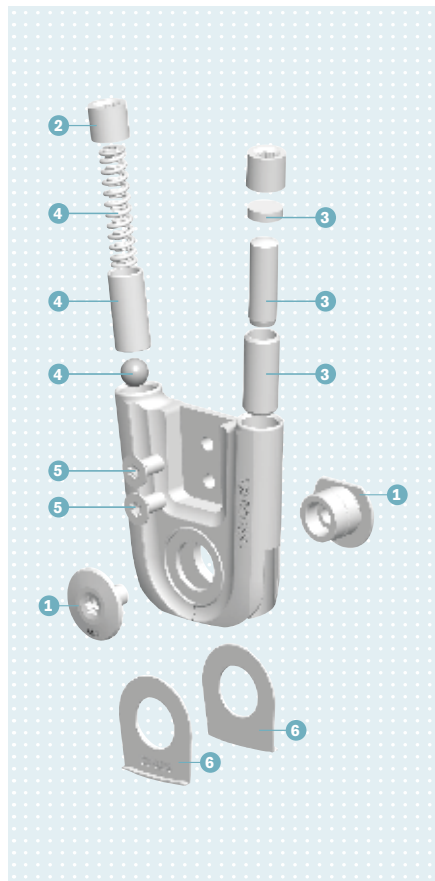
Article number	Spare part for	Quantity unit
30Y349=12	17LA3N=10 17LA3N=10-T 17LA3N=12 17LA3N=12-T	Piece

### (3) Adjustable stop

Reference number 17LA35N

#### Technical data

Article number	Spare part for	Quantity unit
17LA35N=12	17LA3N=10 17LA3N=10-T 17LA3N=12 17LA3N=12-T	Piece
17LA35N=14	17LA3N=14 17LA3N=14-T	Piece
17LA35N=20	17LA3N=16 17LA3N=16-T 17LA3N=20 17LA3N=20-T	Piece



### (4) Compression spring set

Reference number 17LA34N

#### Technical data

Article number	Spare part for	Quantity unit
17LA34N=12	17LA3N=10 17LA3N=10-T 17LA3N=12 17LA3N=12-T	Piece
17LA34N=14	17LA3N=14 17LA3N=14-T	Piece
17LA34N=16	17LA3N=16 17LA3N=16-T	Piece
17LA34N=20	17LA3N=20 17LA3N=20-T	Piece

### (5) Countersunk head Torx screw

Reference number 501S137

#### Technical data

Article number	Spare part for	Quantity unit
501S137=M4X8	17LA3N=10 17LA3N=10-T 17LA3N=12 17LA3N=12-T	Piece
501S137=M4X10-2	17LA3N=14 17LA3N=14-T	Piece
501S137=M5X10-1	17LA3N=16 17LA3N=16-T 17LA3N=20 17LA3N=20-T	Piece

### (6) Axial washers set

Reference number 17LA33N

#### Technical data

Article number	Spare part for	Scope of delivery	Quantity unit
17LA33N=10	17LA3N=10 17LA3N=10-T	30Y344=10X0.70 30Y344=10X0.75 30Y344=10X0.80 30Y344=10X0.85 30Y344=10X0.90	Set
17LA33N=12	17LA3N=12 17LA3N=12-T	30Y305=12X0.70 30Y305=12X0.75 30Y305=12X0.80 30Y305=12X0.85 30Y305=12X0.90	Set
17LA33N=14	17LA3N=14 17LA3N=14-T	30Y305=14X0.85 30Y305=14X0.90 30Y305=14X0.95 30Y305=14X1.00 30Y305=14X1.05 30Y305=14X1.10	Set
17LA33N=16	17LA3N=16 17LA3N=16-T	30Y344=16X0.85 30Y344=16X0.90 30Y344=16X0.95 30Y344=16X1.00 30Y344=16X1.05 30Y344=16X1.10	Set
17LA33N=20	17LA3N=20 17LA3N=20-T	30Y305=20X0.85 30Y305=20X0.90 30Y305=20X0.95 30Y305=20X1.00 30Y305=20X1.05 30Y305=20X1.10	Set



## Dummy cover

Reference number 17LD1N-P

Cover for 17LD1N lamination dummy

### Technical data

Article number	Spare part for	Material	Quantity unit
17LD1N=10-P	17LA3N=10 17LA3N=10-T	Stainless steel	Piece
17LD1N=12-P	17LA3N=12 17LA3N=12-T	Stainless steel	Piece
17LD1N=14-P	17LA3N=14 17LA3N=14-T	Stainless steel	Piece
17LD1N=16-P	17LA3N=16 17LA3N=16-T	Stainless steel	Piece
17LD1N=20-P	17LA3N=20 17LA3N=20-T	Stainless steel	Piece

## Accessory for 17LA3N



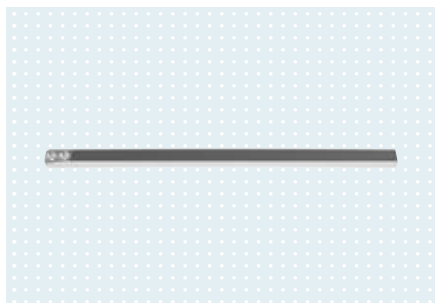
## Lamination bar

Reference number 17LS3



### Technical data

Article number	Length	Width	Thickness	Material	Quantity unit
17LS3=10	80 mm	10 mm	5 mm bottom/3 mm top	Stainless steel	Piece
17LS3=10-T	80 mm	10 mm	5 mm bottom/3 mm top	Titanium	Piece
17LS3=12	80 mm	12 mm	5 mm bottom/3 mm top	Stainless steel	Piece
17LS3=12-T	80 mm	12 mm	5 mm bottom/3 mm top	Titanium	Piece
17LS3=14	100 mm	14 mm	6 mm bottom/2.5 mm top	Stainless steel	Piece
17LS3=14-T	100 mm	14 mm	6 mm bottom/2.5 mm top	Titanium	Piece
17LS3=16	130 mm	16 mm	6 mm bottom/3 mm top	Stainless steel	Piece
17LS3=16-T	130 mm	16 mm	6 mm bottom/3 mm top	Titanium	Piece
17LS3=20	130 mm	20 mm	6 mm bottom/3 mm top	Stainless steel	Piece
17LS3=20-T	130 mm	20 mm	6 mm bottom, 3 mm top	Titanium	Piece



## Side bar

Reference number 17LV3

Side bar for the unilateral joint system

### Technical data

Article number	Width	Material	Quantity unit
17LV3=10	10 mm	Stainless steel	Piece
17LV3=12	12 mm	Stainless steel	Piece
17LV3=16	16 mm	Stainless steel	Piece
17LV3=20	20 mm	Stainless steel	Piece
17LV3=L-16	16 mm	Stainless steel	Piece
17LV3=L-20	20 mm	Stainless steel	Piece
17LV3=R-16	16 mm	Stainless steel	Piece
17LV3=R-20	20 mm	Stainless steel	Piece



### Lamination dummy for unilateral orthotic ankle joint incl. shoulder screw

Reference number 17LD1N

#### Technical data

Article number	Accessories for	Material	Quantity unit
17LD1N=10	17LA3N=10 17LA3N=10-T	Stainless steel	Piece
17LD1N=12	17LA3N=12 17LA3N=12-T	Stainless steel	Piece
17LD1N=14	17LA3N=14 17LA3N=14-T	Stainless steel	Piece
17LD1N=16	17LA3N=16 17LA3N=16-T	Stainless steel	Piece
17LD1N=20	17LA3N=20 17LA3N=20-T	Stainless steel	Piece



### Foot stirrup

Reference number 17LF3N

Free motion up to 20° plantar flexion and 20° dorsal extension, only in combination with the 17LA3N=\* orthotic ankle joint



#### Technical data

Article number	Accessories for	Material	Quantity unit
17LF3N=10	17LA3N=10 17LA3N=10-T	Stainless steel	Piece
17LF3N=12	17LA3N=12 17LA3N=12-T	Stainless steel	Piece
17LF3N=14	17LA3N=14 17LA3N=14-T	Stainless steel	Piece
17LF3N=16	17LA3N=16 17LA3N=16-T	Stainless steel	Piece
17LF3N=20	17LA3N=20 17LA3N=20-T	Stainless steel	Piece



## Foot stirrup

Reference number 17LF31N

Free motion up to 20° plantar flexion and 20° dorsal extension, only in combination with the 17LA3N=\* orthotic ankle joint



### Technical data

Article number	Accessories for	Material	Quantity unit
17LF31N=10	17LA3N=10 17LA3N=10-T	Stainless steel	Piece
17LF31N=12	17LA3N=12 17LA3N=12-T	Stainless steel	Piece
17LF31N=14	17LA3N=14 17LA3N=14-T	Stainless steel	Piece
17LF31N=16	17LA3N=16 17LA3N=16-T	Stainless steel	Piece
17LF31N=20	17LA3N=20 17LA3N=20-T	Stainless steel	Piece

## Spare parts for 17LF3N, 17LF31N



## Plastic bushing

Reference number 30Y306

Bushing for 17LF3N, 17LF31N and 17SF100=OS foot stirrups

### Technical data

Article number	Spare part for
30Y306=10	17LF31N=10 17LF3N=10
30Y306=12	17LF3N=12 17LF31N=12
30Y306=14	17LF3N=14 17LF31N=14
30Y306=16	17LF3N=16 17LF31N=16
30Y306=20	17LF3N=20 17LF31N=20



## Multifunction ankle joints – System joints – Bestellblatt Unilaterales Knöchelgelenk

Company		Date	
Technician		Signature	
Customer no.			

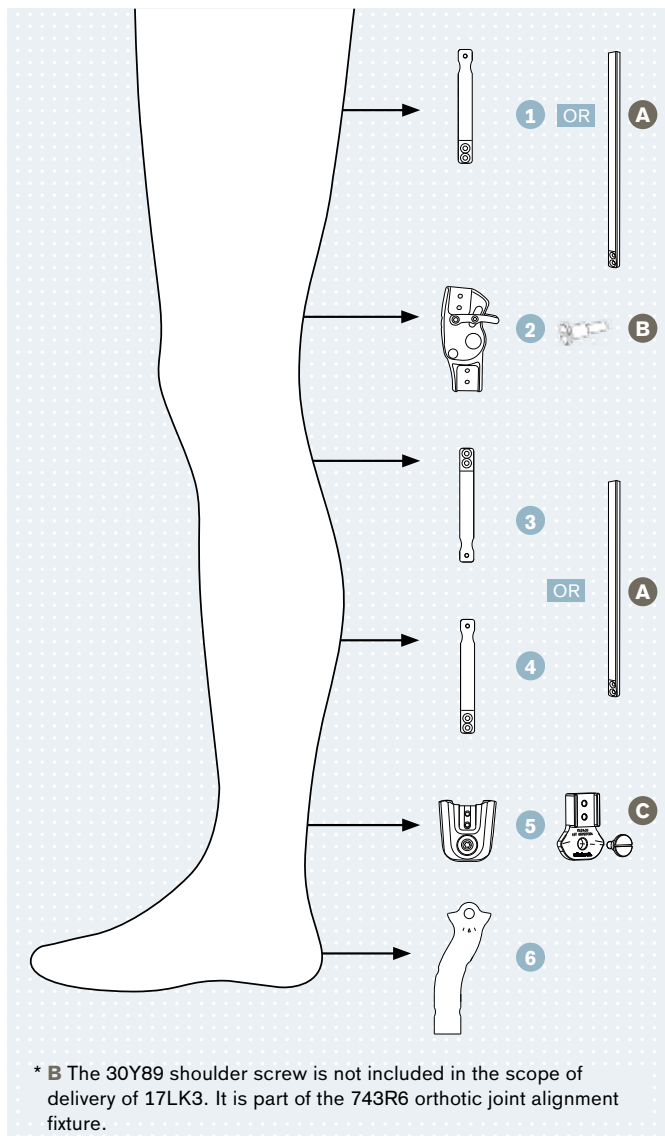
### User information

Surname, first name ..... Weight .....

Age ..... Indication .....

Side  Left  Right  Bilateral

The size chosen depends on the patient's weight and the conditions of use.



<b>1 Lamination bar 17LS3=* OR</b>		<b>A Extension bar 17LV3=* </b>	
Steel version	Titanium version	Steel version	
<input type="checkbox"/> 17LS3=10	<input type="checkbox"/> 17LS3=10-T	<input type="checkbox"/> 17LV3=10	
<input type="checkbox"/> 17LS3=12	<input type="checkbox"/> 17LS3=12-T	<input type="checkbox"/> 17LV3=12	
<input type="checkbox"/> 17LS3=14	<input type="checkbox"/> 17LS3=14-T	<input type="checkbox"/> 17LV3=14	
<input type="checkbox"/> 17LS3=16	<input type="checkbox"/> 17LS3=16-T	<input type="checkbox"/> 17LV3=16	
<input type="checkbox"/> 17LS3=20	<input type="checkbox"/> 17LS3=20-T	<input type="checkbox"/> 17LV3=20	
<b>2 Unilateral Knee Joint 17LK3=* </b>			
Steel version	Titanium version	Side	<b>B Shoulder screw*</b>
<input type="checkbox"/> 17LK3=12	<input type="checkbox"/> 17LK3=12-T	<input type="checkbox"/> L <input type="checkbox"/> R	<input type="checkbox"/> 30Y89
<input type="checkbox"/> 17LK3=14	<input type="checkbox"/> 17LK3=14-T	<input type="checkbox"/> L <input type="checkbox"/> R	<input type="checkbox"/> 30Y89
<input type="checkbox"/> 17LK3=16	<input type="checkbox"/> 17LK3=16-T	<input type="checkbox"/> L <input type="checkbox"/> R	<input type="checkbox"/> 30Y89
<input type="checkbox"/> 17LK3=20	<input type="checkbox"/> 17LK3=20-T	<input type="checkbox"/> L <input type="checkbox"/> R	<input type="checkbox"/> 30Y89
<b>3, 4 Lamination bar 17LS3=* OR</b>		<b>A Extension bar 17LV3=* </b>	
Steel version	Titanium version	Steel version	
<input type="checkbox"/> 17LS3=10	<input type="checkbox"/> 17LS3=10-T	<input type="checkbox"/> 17LV3=10	
<input type="checkbox"/> 17LS3=12	<input type="checkbox"/> 17LS3=12-T	<input type="checkbox"/> 17LV3=12	
<input type="checkbox"/> 17LS3=14	<input type="checkbox"/> 17LS3=14-T	<input type="checkbox"/> 17LV3=14	
<input type="checkbox"/> 17LS3=16	<input type="checkbox"/> 17LS3=16-T	<input type="checkbox"/> 17LV3=16	
<input type="checkbox"/> 17LS3=20	<input type="checkbox"/> 17LS3=20-T	<input type="checkbox"/> 17LV3=20	
<b>5 Unilateral Ankle Joint 17LA3N=* </b>			
Steel version	Titanium version	<b>C Optional lamination dummy with shoulder screw</b>	
<input type="checkbox"/> 17LA3N=10	<input type="checkbox"/> 17LA3N=10-T	<input type="checkbox"/> 17LD1N=10	
<input type="checkbox"/> 17LA3N=12	<input type="checkbox"/> 17LA3N=12-T	<input type="checkbox"/> 17LD1N=12	
<input type="checkbox"/> 17LA3N=14	<input type="checkbox"/> 17LA3N=14-T	<input type="checkbox"/> 17LD1N=14	
<input type="checkbox"/> 17LA3N=16	<input type="checkbox"/> 17LA3N=16-T	<input type="checkbox"/> 17LD1N=16	
<input type="checkbox"/> 17LA3N=20	<input type="checkbox"/> 17LA3N=20-T	<input type="checkbox"/> 17LD1N=20	
<b>6 Foot stirrup (Steel) 17LF3N=* </b>			
<input type="checkbox"/> 17LF3N=10	<input type="checkbox"/> 17LF3N=14	<input type="checkbox"/> 17LF3N=20	
<input type="checkbox"/> 17LF3N=12	<input type="checkbox"/> 17LF3N=16		

\* **B** The 30Y89 shoulder screw is not included in the scope of delivery of 17LK3. It is part of the 743R6 orthotic joint alignment fixture.



## Unilateral C-Brace® ankle joint

Reference number 17AO100

The 17AO100 unilateral ankle joint is a multifunction system ankle joint with a dorsiflexion effect. It is approved only in combination with the C-Brace®.



### Technical data

Article number	Bar width	Max. body weight
17AO100=22-T	22 mm	110 kg

- Lamination bar and foot stirrup are included in scope of delivery.

### Scope of delivery

17AO100	Unilateral C-Brace® ankle joint	1	Piece
17S100	C-Brace® lamination bar	1	Piece
17SF100=OS*	Foot stirrup and shrink down tube	1	Piece
17LD1N-P	Dummy cover	1	Piece
17LA33N	Axial washers set	1	Piece
17AO100S	Service set screw connection	1	Piece
17AO100S	Service set spring	1	Piece
17AO100S	Service set bumpers	1	Piece
30Y450	Set screw	1	Piece
501S136	Flat head Torx screw	1	Piece

## Spare parts for 17AO100



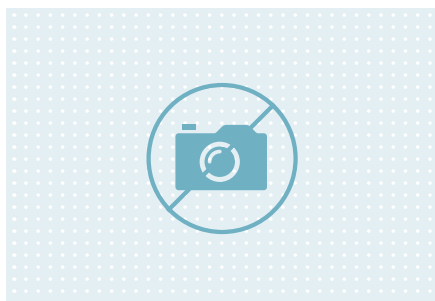
## Lamination dummy for ankle joints incl. shoulder screw

Reference number 17LD1N

Lamination dummy for embedding the 17LA33N and 17AO100 unilateral ankle joints

### Technical data

Article number	Spare part for	Material	Quantity unit
17LD1N=22	17AO100=22-T	Stainless steel	Piece



## Dummy cover

Reference number 17LD1N-P

Cover for 17LD1N lamination dummy

### Technical data

Article number	Spare part for	Material	Quantity unit
17LD1N=22-P	17AO100=22-T	Stainless steel	Piece



### C-Brace® lamination bar

Reference number 17S100

Lamination bar for the 17A0100 C-Brace® ankle joint

#### Technical data

Article number	Quantity unit
17S100=LB-22-T	Piece



### Axial washers set

Reference number 17LA33N

Set of axial washers for the unilateral ankle joints 17LA3N and 17A0100

#### Technical data

Article number	Spare part for	Quantity unit
17LA33N=20	17A0100=22-T	Set

### Service set

Reference number 17A0100S

Service sets for unilateral C-Brace® ankle joint 17A0100

#### Technical data

Article image	Description	Article number
	Service set screw connection	17A0100S=22-1
	Service set spring	17A0100S=22-2
	Service set bumpers	17A0100S=22-3



### Foot stirrup and shrink down tube

Reference number 17SF100=OS\*

Foot stirrup for the Nexgear Tango ankle joint and the 17A0100=22-T unilateral C-Brace® ankle joint

#### Technical data

Article number
17SF100=OS-22



## Set screw

Reference number 30Y450

Set screw for 17A0100 unilateral C-Brace® ankle joint

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### Technical data

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#### Article number

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30Y450=22

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## Flat head Torx screw

Reference number 501S136

Flat head Torx screw for 17A0100 unilateral C-Brace® ankle joint

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### Technical data

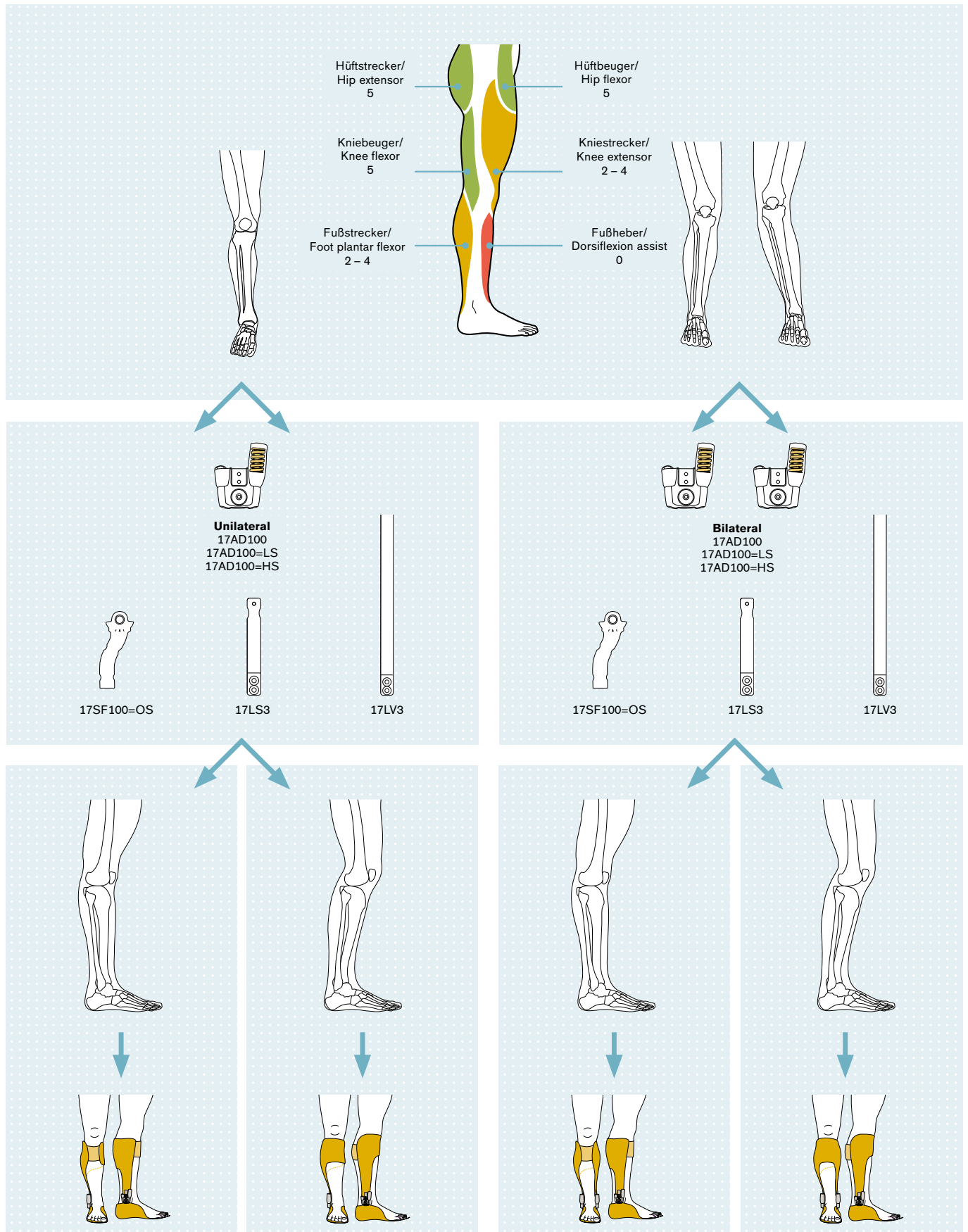
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#### Article number

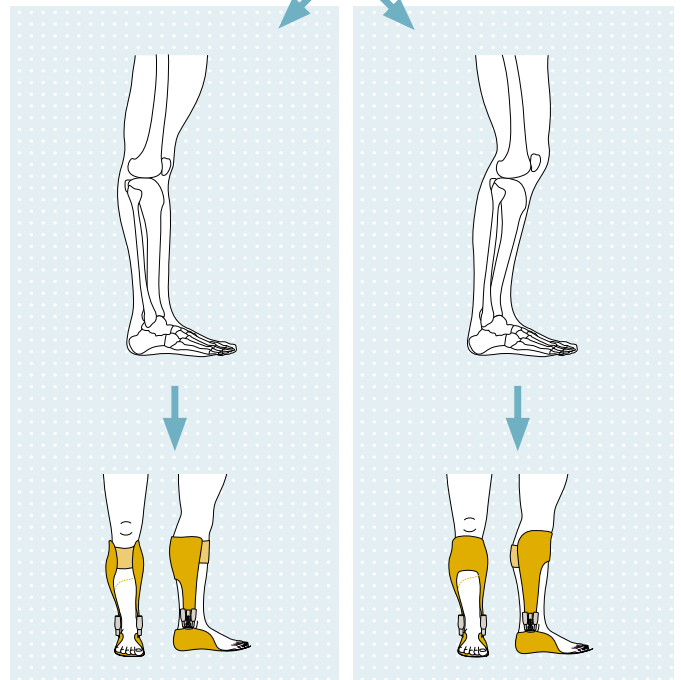
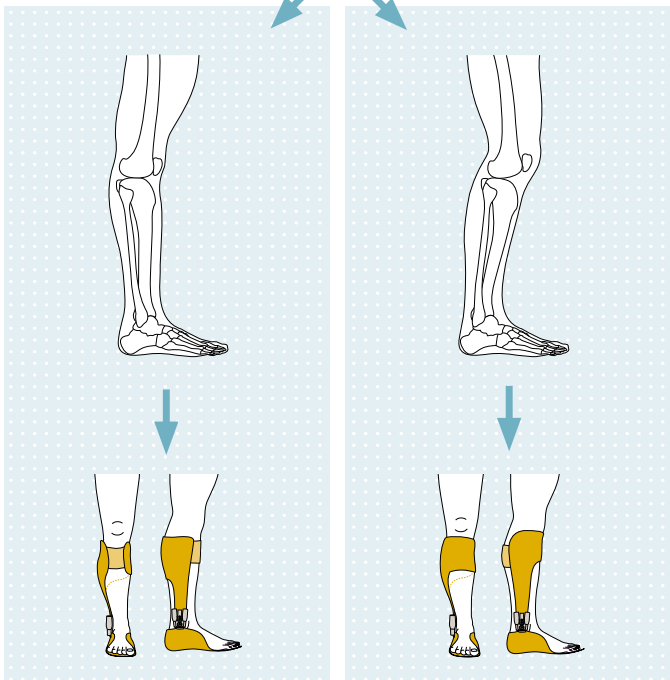
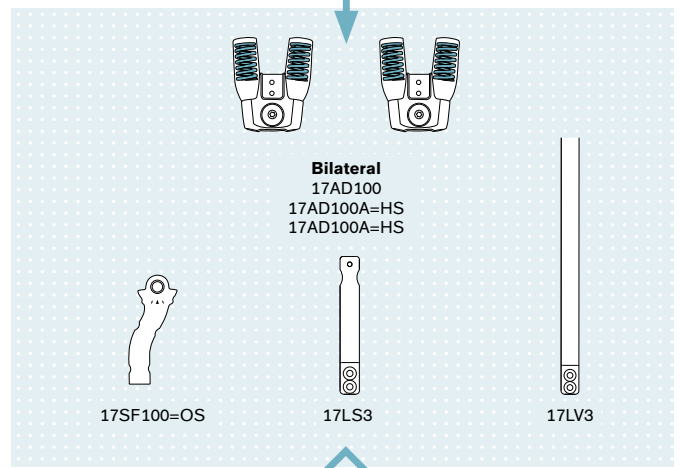
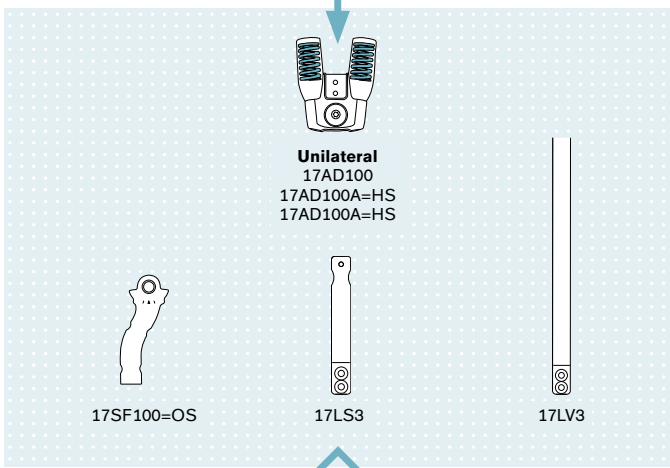
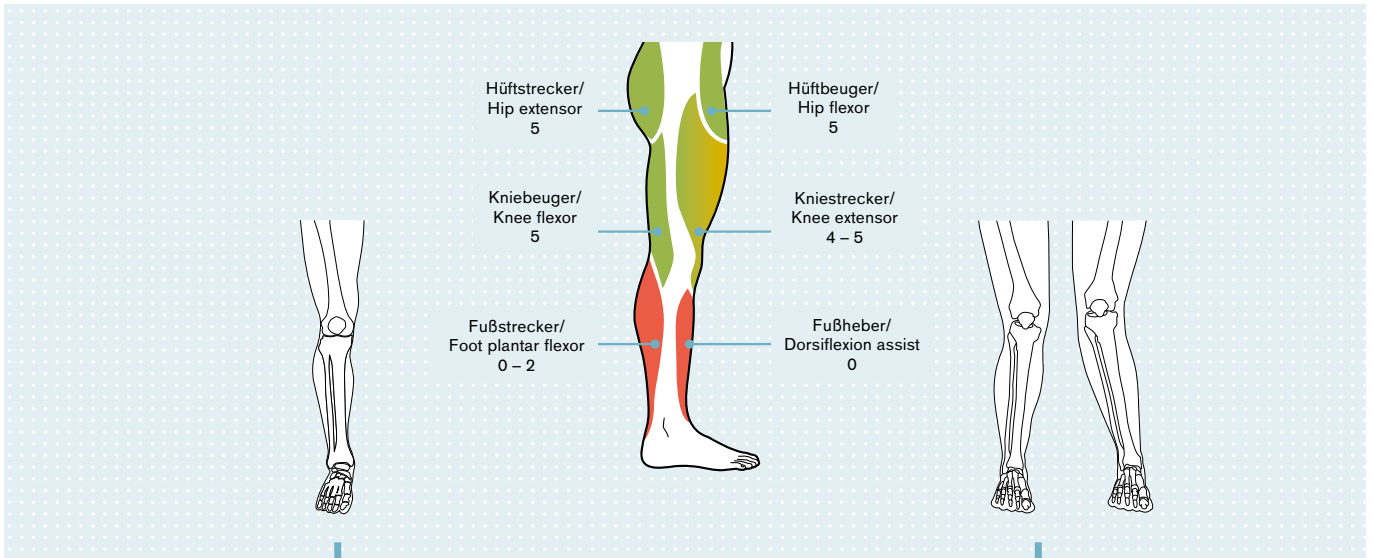
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501S136=M6X12-1

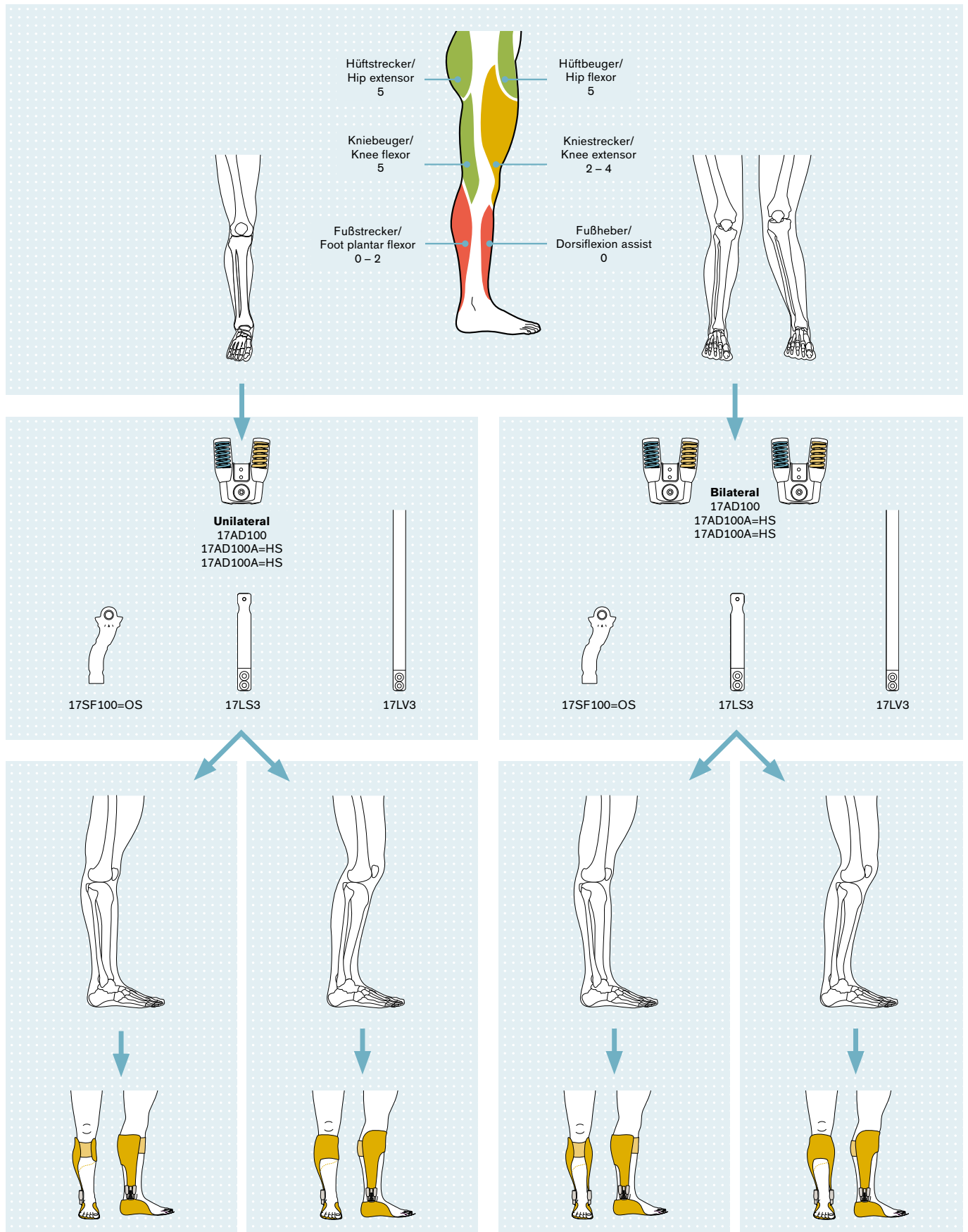
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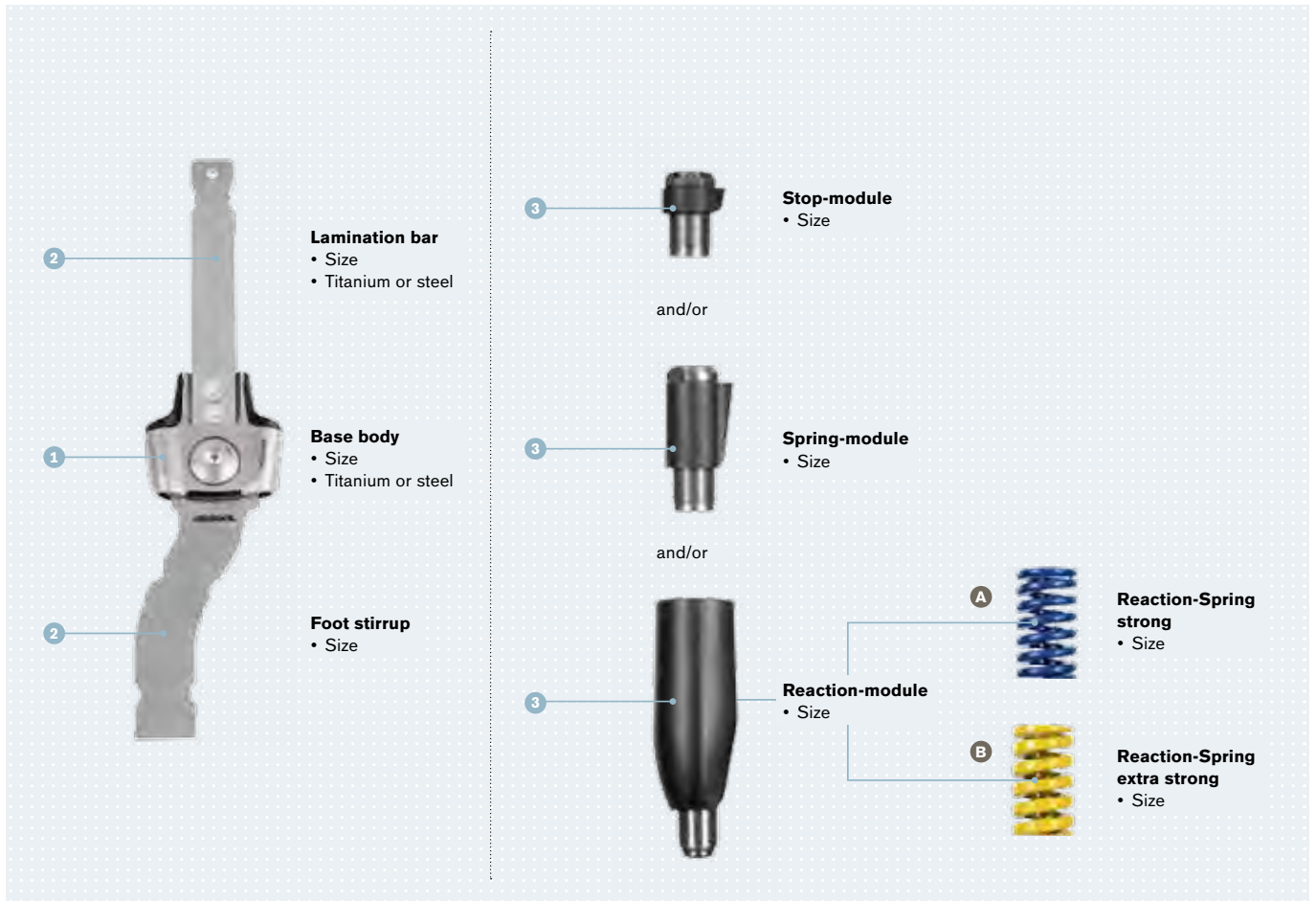
Multifunction ankle joints – System joints – Selection aid Nexgear Tango



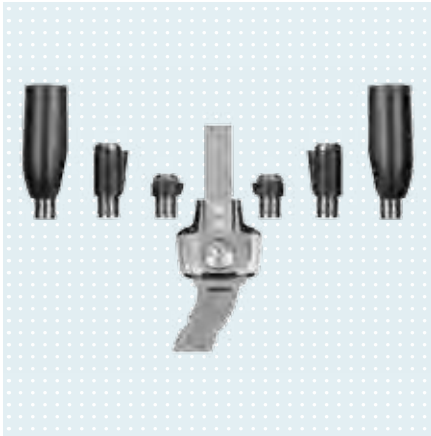
## Multifunction ankle joints – System joints – Selection aid Nexgear Tango



Multifunction ankle joints – System joints – Selection aid Nexgear Tango







### Nexgear Tango ankle joint

Reference number 17AD100

The Nexgear Tango is a modular system ankle joint with high energy return. The three function modules ensure optimal adaptation to the user's needs in terms of function and design.



#### Features and benefits

- Double action ankle joint with three functional modules (Stop-module, Spring-module, Reaction-module) ensures optimum adaptation to the user's needs in terms of function and design
  - Individually adaptable throughout the entire rehabilitation process thanks to modules that can be added and removed
  - For adults and children, selected by weight classification
  - For unilateral and bilateral fittings
  - Base body available in titanium and steel
- Please order the separate components according to the individual needs of your patient.

#### Information material

646D1267=EN_INT	Nexgear Tango Information for practitioners
647F581=EN_INT	Nexgear Tango order form
646F483=ALL_INT	Nexgear Tango selection guide
646F595=EN_MASTER	Ankle joints overview
646D1306=EN_INT	Ankle joint selection guide
646F465=ALL_INT	AFO selection guide
646T524=EN	Nexgear Tango technical information
647G1220	Nexgear Tango instructions for use

### Components of 17AD100



### Base body

Reference number 17AD100

Base body for the Nexgear Tango orthotic ankle joint

#### Technical data

Article number	System width	Max. body weight	Material	Quantity unit
17AD100=10	10 mm	15 kg (unilateral)/25 kg (bilateral)	Steel	Piece
17AD100=10-T	10 mm	15 kg (unilateral)/25 kg (bilateral)	Titanium	Piece
17AD100=12	12 mm	20 kg (unilateral)/40 kg (bilateral)	Steel	Piece
17AD100=12-T	12 mm	20 kg (unilateral)/40 kg (bilateral)	Titanium	Piece
17AD100=14	14 mm	50 kg (unilateral)/80 kg (bilateral)	Steel	Piece
17AD100=14-T	14 mm	50 kg (unilateral)/80 kg (bilateral)	Titanium	Piece
17AD100=16	16 mm	85 kg (unilateral)/120 kg (bilateral)	Steel	Piece
17AD100=16-T	16 mm	85 kg (unilateral)/120 kg (bilateral)	Titanium	Piece
17AD100=20	20 mm	110 kg (unilateral)/160 kg (bilateral)	Steel	Piece
17AD100=20-T	20 mm	110 kg (unilateral)/160 kg (bilateral)	Titanium	Piece

- The weight classification permits unilateral use for a user body weight of up to 110 kg and bilateral use for up to 160 kg.

#### Information material

647G1220	Nexgear Tango instructions for use
647F581=DE_MASTER	Nexgear Tango order form



## Stop-module

Reference number 17AD100A=AS\*

Stop-module for the Nexgear Tango ankle joint

### Technical data

Article number	System width	Max. body weight	Quantity unit
17AD100A=AS-10	10 mm	15 kg (unilateral)/25 kg (bilateral)	Piece
17AD100A=AS-12	12 mm	20 kg (unilateral)/40 kg (bilateral)	Piece
17AD100A=AS-14	14 mm	50 kg (unilateral)/80 kg (bilateral)	Piece
17AD100A=AS-16	16 mm	85 kg (unilateral)/120 kg (bilateral)	Piece
17AD100A=AS-20	20 mm	120 kg (unilateral)/160 kg (bilateral)	Piece

- You can use the module for the adjustable stop to set a continuously variable dorsal or plantar stop.



## Spring-module

Reference number 17AD100A=LS\*

Spring-module for the Nexgear Tango ankle joint

### Technical data

Article number	System width	Max. body weight	Quantity unit
17AD100A=LS-10	10 mm	15 kg (unilateral)/25 kg (bilateral)	Piece
17AD100A=LS-12	12 mm	20 kg (unilateral)/40 kg (bilateral)	Piece
17AD100A=LS-14	14 mm	50 kg (unilateral)/80 kg (bilateral)	Piece
17AD100A=LS-16	16 mm	85 kg (unilateral)/120 kg (bilateral)	Piece
17AD100A=LS-20	20 mm	120 kg (unilateral)/160 kg (bilateral)	Piece



## Reaction-module

Reference number 17AD100A=HS\*

Reaction-module for the Nexgear Tango ankle joint

### Technical data

Article number	System width	Max. body weight	Quantity unit
17AD100A=HS-10	10 mm	15 kg (unilateral)/25 kg (bilateral)	Piece
17AD100A=HS-12	12 mm	20 kg (unilateral)/40 kg (bilateral)	Piece
17AD100A=HS-14	14 mm	50 kg (unilateral)/80 kg (bilateral)	Piece
17AD100A=HS-16	16 mm	85 kg (unilateral)/120 kg (bilateral)	Piece
17AD100A=HS-20	20 mm	110 kg (unilateral)/160 kg (bilateral)	Piece

- The Reaction-springs must be ordered separately for each module.



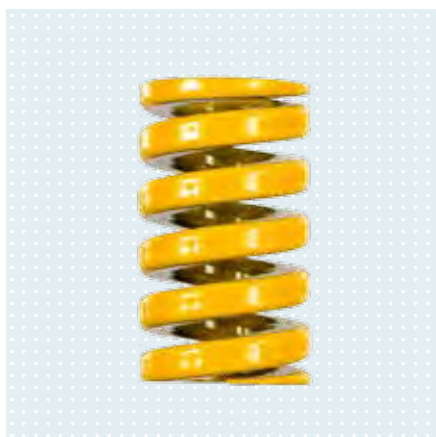
### Reaction-spring, strong

Reference number 17AD100A=HS\*

The Reaction-spring of the Reaction-module is available in two different strengths (strong or extra strong). The corresponding spring is selected according to the individual spring force required.

#### Technical data

Article number	for	Quantity unit
17AD100A=HS-12-1	17AD100A=HS-10 17AD100A=HS-12	Piece
17AD100A=HS-14-1	17AD100A=HS-14	Piece
17AD100A=HS-20-1	17AD100A=HS-16 17AD100A=HS-20	Piece



### Reaction-spring, extra strong

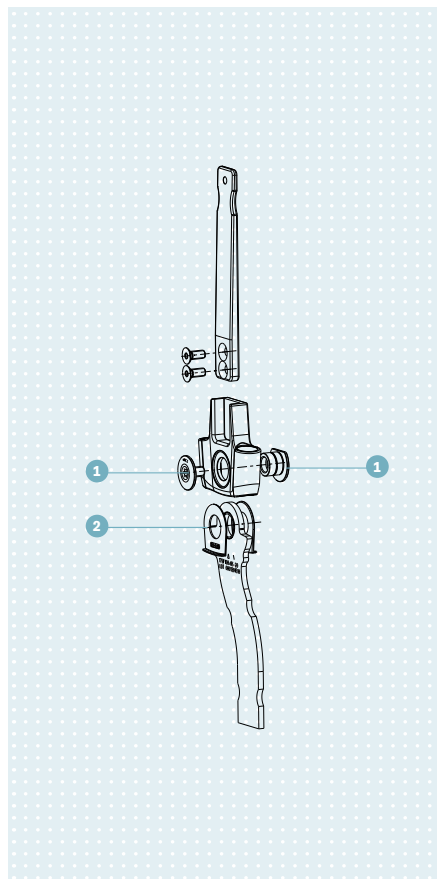
Reference number 17AD100A=HS\*

The Reaction-spring of the Reaction-module is available in two different strengths (strong or extra strong). The corresponding spring is selected according to the individual spring force required.

#### Technical data

Article number	for	Quantity unit
17AD100A=HS-12-2	17AD100A=HS-10 17AD100A=HS-12	Piece
17AD100A=HS-14-2	17AD100A=HS-14	Piece
17AD100A=HS-20-2	17AD100A=HS-16 17AD100A=HS-20	Piece

## Spare parts for 17AD100 Base body

**(1) Service set for base body**

Reference number 17AD100S

**Technical data**

Article number	Spare part for
17AD100S=10	17AD100=10-T 17AD100=10
17AD100S=12	17AD100=12-T 17AD100=12
17AD100S=14	17AD100=14-T 17AD100=14
17AD100S=16	17AD100=16-T 17AD100=16
17AD100S=20	17AD100=20-T 17AD100=20

**(2) Service set for axial washers**

Reference number 17AD100S

**Technical data**

Article number	Spare part for
17AD100S=10-1	17AD100=10-T 17AD100=10
17AD100S=12-1	17AD100=12-T 17AD100=12
17AD100S=14-1	17AD100=14-T 17AD100=14
17AD100S=16-1	17AD100=16-T 17AD100=16
17AD100S=20-1	17AD100=20-T 17AD100=20

**Dummy cover**

Reference number 17AD100A=DY\*

Dummy cover for the 17AD100A=DY\* dummy

**Technical data**

Article number	Spare part for
17AD100A=DY-10-P	17AD100=10-T 17AD100=10
17AD100A=DY-12-P	17AD100=12-T 17AD100=12
17AD100A=DY-14-P	17AD100=14-T 17AD100=14
17AD100A=DY-16-P	17AD100=16-T 17AD100=16
17AD100A=DY-20-P	17AD100=20-T 17AD100=20

### Spare parts for 17AD100A=AS\* Stop-module



#### (1) Set screw

Reference number 30Y309

##### Technical data

Article number	Spare part for	Quantity unit
30Y309=10	17AD100A=AS-10 17AD100A=LS-10	Piece
30Y309=12	17AD100A=AS-12 17AD100A=LS-12	Piece
30Y309=14	17AD100A=AS-14 17AD100A=LS-14	Piece
30Y309=20	17AD100A=AS-20 17AD100A=AS-16 17AD100A=LS-16 17AD100A=LS-20	Piece

#### (2) Service set for Stop-module

Reference number 17AD100S=AS\*

##### Technical data

Article number	Spare part for	Scope of delivery
17AD100S=AS-10-1	17AD100A=AS-10	1x Bumper
17AD100S=AS-12-1	17AD100A=AS-12	1x Bumper
17AD100S=AS-14-1	17AD100A=AS-14	1x Bumper
17AD100S=AS-20-1	17AD100A=AS-20 17AD100A=AS-16	1x Bumper

#### (3) Cover for Stop-module

Reference number 17AD100S=AS\*

##### Technical data

Article number	Spare part for
17AD100S=AS-10-2	17AD100A=AS-10
17AD100S=AS-12-2	17AD100A=AS-12
17AD100S=AS-14-2	17AD100A=AS-14
17AD100S=AS-16-2	17AD100A=AS-16
17AD100S=AS-20-2	17AD100A=AS-20

Spare parts for 17AD100A=LS\* Spring-module

2



(1) Service set for Spring-module

Reference number 17AD100S=LS\*

Technical data

Article number	Spare part for	Scope of delivery
17AD100S=LS-10-1	17AD100A=LS-10	1x compression spring 1x plastic sleeve 1x ball
17AD100S=LS-12-1	17AD100A=LS-12	1x compression spring 1x plastic sleeve 1x ball
17AD100S=LS-14-1	17AD100A=LS-14	1x compression spring 1x plastic sleeve 1x ball
17AD100S=LS-16-1	17AD100A=LS-16	1x compression spring 1x plastic sleeve 1x ball
17AD100S=LS-20-1	17AD100A=LS-20	1x compression spring 1x plastic sleeve 1x ball

(2) Cover for Spring-module

Reference number 17AD100S=LS\*

Technical data

Article number	Spare part for
17AD100S=LS-10-2	17AD100A=LS-10
17AD100S=LS-12-2	17AD100A=LS-12
17AD100S=LS-14-2	17AD100A=LS-14
17AD100S=LS-16-2	17AD100A=LS-16
17AD100S=LS-20-2	17AD100A=LS-20



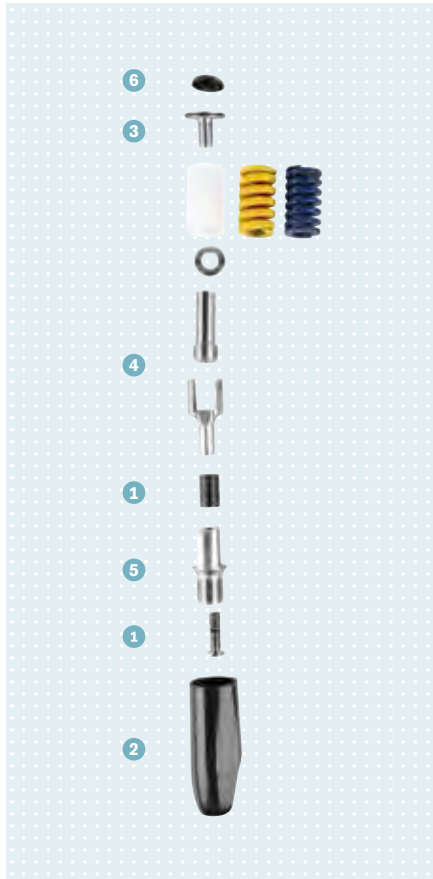
Set screw

Reference number 30Y309

Technical data

Article number	Spare part for
30Y309=10	17AD100A=LS-10
30Y309=12	17AD100A=LS-12
30Y309=14	17AD100A=LS-14
30Y309=20	17AD100A=LS-16 17AD100A=LS-20

## Spare parts for 17AD100A=HS\* Reaction-module



### (1) Service set for Reaction-module

Reference number 17AD100S=HS\*

#### Technical data

Article number	Spare part for	Scope of delivery
17AD100S=HS-10-1	17AD100A=HS-10	1x bumper 1x plastic sleeve
17AD100S=HS-12-1	17AD100A=HS-12	1x bumper 1x plastic sleeve
17AD100S=HS-14-1	17AD100A=HS-14	1x bumper 1x plastic sleeve
17AD100S=HS-20-1	17AD100A=HS-20 17AD100A=HS-16	1x bumper 1x plastic sleeve

### (2) Cover for Reaction-module

Reference number 17AD100S=HS\*

#### Technical data

Article number	Spare part for
17AD100S=HS-10-2	17AD100A=HS-10
17AD100S=HS-12-2	17AD100A=HS-12
17AD100S=HS-14-2	17AD100A=HS-14
17AD100S=HS-16-2	17AD100A=HS-16
17AD100S=HS-20-2	17AD100A=HS-20

### (3) Spring bolt for Reaction-module

Reference number 17AD100S=HS\*

#### Technical data

Article number	Spare part for	Scope of delivery
17AD100S=HS-10-3	17AD100A=HS-10	1x spring screw
17AD100S=HS-12-3	17AD100A=HS-12	1x spring screw
17AD100S=HS-14-3	17AD100A=HS-14	1x spring screw
17AD100S=HS-20-3	17AD100A=HS-20 17AD100A=HS-16	1x spring screw

### (4) Service set for Reaction-module

Reference number 17AD100S=HS\*

#### Technical data

Article number	Spare part for	Scope of delivery
17AD100S=HS-10-4	17AD100A=HS-10	1x washer 1x spring centering piece 1x spring tappet
17AD100S=HS-12-4	17AD100A=HS-12	1x washer 1x spring centering piece 1x spring tappet
17AD100S=HS-14-4	17AD100A=HS-14	1x washer 1x spring centering piece 1x spring tappet
17AD100S=HS-20-4	17AD100A=HS-20 17AD100A=HS-16	1x washer 1x spring centering piece 1x spring tappet

## (5) Support element

Reference number 30Y444

### Technical data

Article number	Spare part for	Scope of delivery
30Y444=10	17AD100A=HS-10	1x support element
30Y444=12	17AD100A=HS-12	1x support element
30Y444=14	17AD100A=HS-14	1x support element
30Y444=20	17AD100A=HS-20 17AD100A=HS-16	1x support element

## (6) Cover cap

Reference number 516K2

### Technical data

Article number	Spare part for	Scope of delivery
516K2=25-7	17AD100A=HS-12 17AD100A=HS-10	1x cover cap
516K2=30-7	17AD100A=HS-20 17AD100A=HS-16 17AD100A=HS-14	1x cover cap

## Accessory for 17AD100



## Dummy

Reference number 17AD100A=DY\*

Dummy for the Nexgear Tango ankle joint

### Technical data

Article number	Accessories for
17AD100A=DY-10	17AD100=10 17AD100=10-T
17AD100A=DY-12	17AD100=12-T 17AD100=12
17AD100A=DY-14	17AD100=14 17AD100=14-T
17AD100A=DY-16	17AD100=16 17AD100=16-T
17AD100A=DY-20	17AD100=20 17AD100=20-T

- The 17AD100A =DY\*-P plastic cover is included in the scope of delivery of the 17AD100 base body.

## Spare part for 17AD100A=DY\*

## Screw with flattened half-round head

Reference number 501F9

### Technical data

Article number	Spare part for
501F9=M4X20	17AD100A=DY-10 17AD100A=DY-12 17AD100A=DY-14
501F9=M6X25-1	17AD100A=DY-16 17AD100A=DY-20





### Foot stirrup

Reference number 17SF100=OS\*

#### Technical data

Article number	Accessories for
17SF100=OS-10	17AD100=10 17AD100=10-T
17SF100=OS-12	17AD100=12-T 17AD100=12
17SF100=OS-14	17AD100=14 17AD100=14-T
17SF100=OS-16	17AD100=16 17AD100=16-T
17SF100=OS-20	17AD100=20 17AD100=20-T

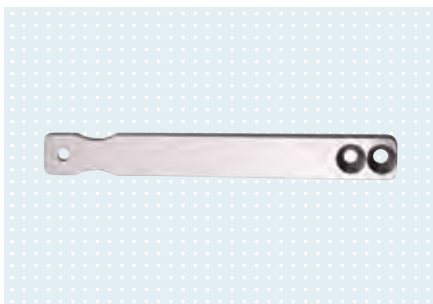
Spare part for 17SF100=OS\*

### Plastic bushing

Reference number 30Y306

#### Technical data

Article number	Spare part for
30Y306=10	17SF100=OS-10
30Y306=12	17SF100=OS-12
30Y306=14	17SF101=OS-14 17SF100=OS-14
30Y306=20	17SF101=OS-20 17SF100=OS-20 17SF100=OS-16



### Lamination bar

Reference number 17LS3



#### Technical data

Article number	Accessories for
17LS3=10	17AD100=10 17AD100=10-T
17LS3=10-T	17AD100=10 17AD100=10-T
17LS3=12-T	17AD100=12-T 17AD100=12
17LS3=14	17AD100=14 17AD100=14-T
17LS3=14-T	17AD100=14 17AD100=14-T
17LS3=16-T	17AD100=16 17AD100=16-T
17LS3=20	17AD100=20 17AD100=20-T
17LS3=20-T	17AD100=20 17AD100=20-T



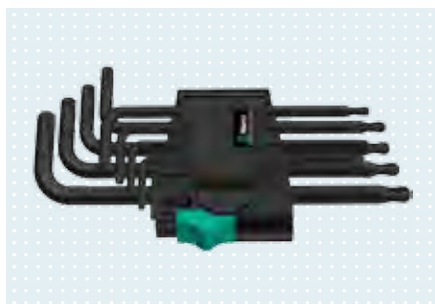
## Mounting adapter

Reference number 17AD100A=MA\*

For installing and removing all three function modules of the Nexgear Tango ankle joint.

### Technical data

Article number	Accessories for
17AD100A=MA-10	17AD100=10 17AD100=10-T
17AD100A=MA-12	17AD100=12-T 17AD100=12
17AD100A=MA-14	17AD100=14 17AD100=14-T
17AD100A=MA-20	17AD100=16 17AD100=16-T 17AD100=20 17AD100=20-T



## TORX® key set

Reference number 709S530

9-piece, robust set with TORX® on the short arm and TORX® ball head on the long arm.

### Technical data

Article number	Version
709S530	TORX® on the short arm, TORX® ball head on the long arm



## Torque wrench

Reference number 710D20

### Technical data

Article number	Version	Measurement range	Total wrench length
710D20	1/4" square drive	2,5 - 25 Nm Nm	290 mm

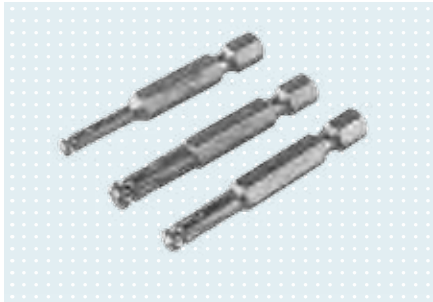


## Connecting element

Reference number 710Y19

### Technical data

Article number	Version
710Y19	Quick-release chuck for fast bit changes, chrome-vanadium



### TORX® bit range

Reference number 710Y25

#### Technical data

Article number	Version	Material	Shaft length
710Y25	<b>TORX® ball head:</b> - enables screwing at an angle of up to 25° - extended TORX® profile behind the ball head	Chrome vanadium steel	50 mm



### Nexgear Tango FIT KIT

Reference number 17AD100A=FIT-KIT

The Nexgear Tango Fit Kit enables the right module and spring to be selected quickly and easily. During the fitting, the O&P professional or therapist can test all three modules and springs on the user and thus find the proper setting and alignment. The Fit Kit contains all three function modules in every size, all Reaction-springs and the necessary tools, such as the mounting adapter, the TORX® bits and the TORX® keys.

#### Technical data

##### Article number

17AD100A=FIT-KIT

Multifunction ankle joints – System joints – Order form Nexgear Tango

Company	<input type="text"/>	Date	<input type="text"/>
Technician	<input type="text"/>	Signature	<input type="text"/>
Customer no.	<input type="text"/>		

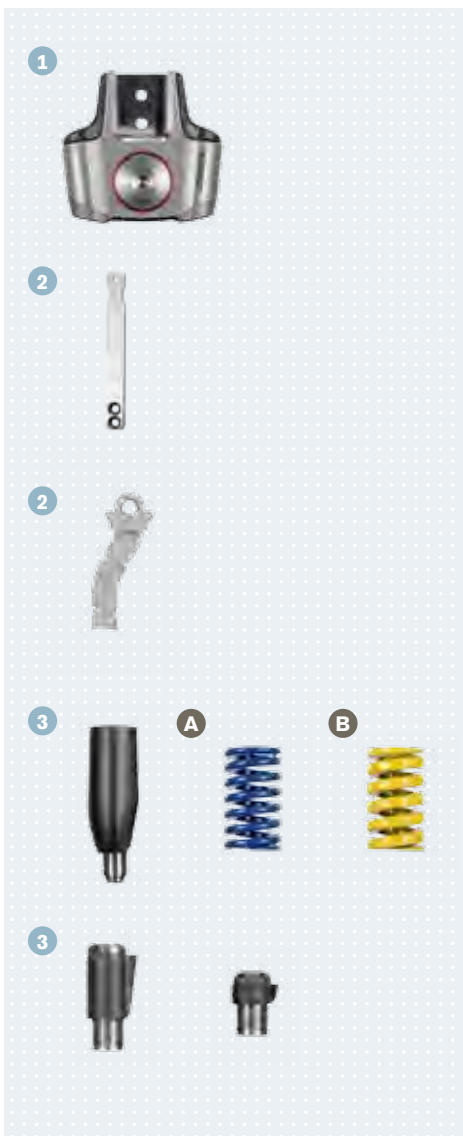
**User information**

Surname, first name ..... Weight .....

Age ..... Indication .....

Side  Unilateral  Bilateral

The size chosen depends on the patient’s weight and the conditions of use. The 17AD100 Nexgear Tango can be equipped with up to two modules. Please enter the required quantity in the field provided.



**1 Base body**

<input type="text"/>	pc(s) 17AD100=10	<input type="text"/>	pc(s) 17AD100=10-T
<input type="text"/>	pc(s) 17AD100=12	<input type="text"/>	pc(s) 17AD100=12-T
<input type="text"/>	pc(s) 17AD100=14	<input type="text"/>	pc(s) 17AD100=14-T
<input type="text"/>	pc(s) 17AD100=16	<input type="text"/>	pc(s) 17AD100=16-T
<input type="text"/>	pc(s) 17AD100=20	<input type="text"/>	pc(s) 17AD100=20-T

**2 Lamination bar**

<input type="text"/>	pc(s) 17LS3=10	<input type="text"/>	pc(s) 17LS3=10-T
<input type="text"/>	pc(s) 17LS3=12	<input type="text"/>	pc(s) 17LS3=12-T
<input type="text"/>	pc(s) 17LS3=14	<input type="text"/>	pc(s) 17LS3=14-T
<input type="text"/>	pc(s) 17LS3=16	<input type="text"/>	pc(s) 17LS3=16-T
<input type="text"/>	pc(s) 17LS3=20	<input type="text"/>	pc(s) 17LS3=20-T

**2 Foot stirrup**

<input type="text"/>	pc(s) 17SF100=OS-10
<input type="text"/>	pc(s) 17SF100=OS-12
<input type="text"/>	pc(s) 17SF100=OS-14
<input type="text"/>	pc(s) 17SF100=OS-16
<input type="text"/>	pc(s) 17SF100=OS-20

**3 Reaction-module**

<input type="text"/>	pc(s) 17AD100A=HS-10
<input type="text"/>	pc(s) 17AD100A=HS-12
<input type="text"/>	pc(s) 17AD100A=HS-14
<input type="text"/>	pc(s) 17AD100A=HS-16
<input type="text"/>	pc(s) 17AD100A=HS-20

**A Reaction-Spring strong**

<input type="text"/>	pc(s) 17AD100A=HS-12-1
<input type="text"/>	pc(s) 17AD100A=HS-14-1
<input type="text"/>	pc(s) 17AD100A=HS-20-1

**B Reaction-Spring extra strong**

<input type="text"/>	pc(s) 17AD100A=HS-12-2
<input type="text"/>	pc(s) 17AD100A=HS-14-2
<input type="text"/>	pc(s) 17AD100A=HS-20-2

**3 Spring-module**

<input type="text"/>	pc(s) 17AD100A=LS-10
<input type="text"/>	pc(s) 17AD100A=LS-12
<input type="text"/>	pc(s) 17AD100A=LS-14
<input type="text"/>	pc(s) 17AD100A=LS-16
<input type="text"/>	pc(s) 17AD100A=LS-20

**3 Stop-module**

<input type="text"/>	pc(s) 17AD100A=AS-10
<input type="text"/>	pc(s) 17AD100A=AS-12
<input type="text"/>	pc(s) 17AD100A=AS-14
<input type="text"/>	pc(s) 17AD100A=AS-16
<input type="text"/>	pc(s) 17AD100A=AS-20



### Multifunction system ankle joint

Reference number 17B66

Multifunction system ankle joint with up to nine setting options (spring, fixed stop or spring stop)



#### Information material

646D1306=EN_INT	Ankle joint selection guide
646F595=EN_MASTER	Ankle joints overview
646F465=ALL_INT	AFO selection guide
646F464=ALL_INT	KAFO selection guide
647G1196=ALL_INT	17B66 instructions for use
647G2	Instructions for use – system/leg bars

#### Technical data

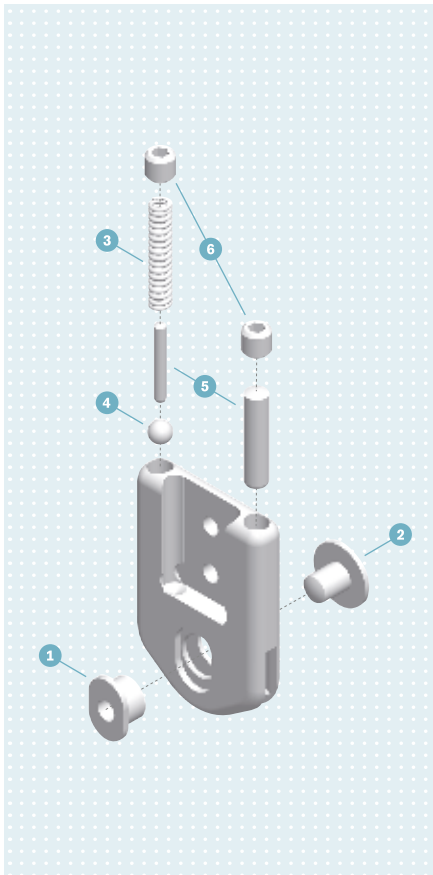
Article number	System width	Slot width	Material	Quantity unit
17B66=16	16 mm	3 mm	Stainless steel	Pair with screws
17B66=20	20 mm	3 mm	Stainless steel	Pair with screws
17B66=A-16	16 mm	3 mm	Stainless steel	Pair with screws
17B66=A-20	20 mm	3 mm	Stainless steel	Pair with screws

- With the 17B66=A-16 and 17B66=A-20 versions, the medial and lateral joint are straight, and the bar connection is lateral.

#### **i** Practical recommendation 17B66

- Increased wear of the spring due to fully compressing it.
- The cylinder pin is located inside the spring. Using the cylinder pin can extend the life of the spring.

## Spare parts for 17B66



### (1) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=9X6.25XM6	17B66=16 17B66=20 17B66=A-16 17B66=A-20	6.25 mm	M6	9 mm	Piece

### (2) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	System width	Head Ø	Thread	Overall length	Material	Quantity unit
501S32=M6X14X10	16/ 20 mm	14 mm	M6	10 mm	Stainless steel	Piece

\* when using 17Y84

### (3) Compression spring

Reference number 513D18

#### Technical data

Article number	Shoulder Ø	Quantity unit
513D18=4.7X31	4.7 mm	Piece

## (4) Bearing ball

Reference number 509Y1

### Technical data

Article number	Quantity unit
509Y1=5.0	Piece

## (5) Stop Pin (small)

Reference number 506A8

### Technical data

Article number	Quantity unit
506A8=2.5X18	Piece
506A8=5X22	Piece

## (6) Aqualine Screw

Reference number 506G3

### Technical data

Article number	Quantity unit
506G3=M6X6	Piece



## Brass bushing

Reference number 17Y17

Brass bushing for joint centre piece

### Technical data

Article number	Material	Quantity unit
17Y17=9X11X2.9	Brass	Piece



### Service set for 17B66

Reference number 17B66=S

#### Technical data

Article number	Quantity unit
17B66=S	Set

#### Scope of delivery

513D18	Compression spring	4 Piece
506A8	Cylinder Pin	4 Piece
506A8	Cylinder Pin	4 Piece
509Y1	Bearing ball	4 Piece
506G3	Set Screw	4 Piece
17Y93	Bearing nut, hardened	2 Piece
501S32	Slotted truss head screw	2 Piece

### Accessory for 17B66



### System foot stirrup

Reference number 17B113

Free motion up to 25° plantar flexion and 25° dorsal extension, with brass bushing



#### Technical data

Article number	Material	Quantity unit
17B113	Stainless steel	Piece



### System foot stirrup

Reference number 17B114

Free motion up to 25° plantar flexion and 25° dorsal extension, with brass bushing



#### Technical data

Article number	Material	Quantity unit
17B114	Stainless steel	Piece



## System foot stirrup

Reference number 17B115

For 17F35=L/R150 system shoe plate, 25° plantar flexion and 25° dorsal extension, with brass bushing



### Technical data

Article number	Material	Quantity unit
17B115	Stainless steel	Piece



## System foot stirrup, double-sided shoe stirrup

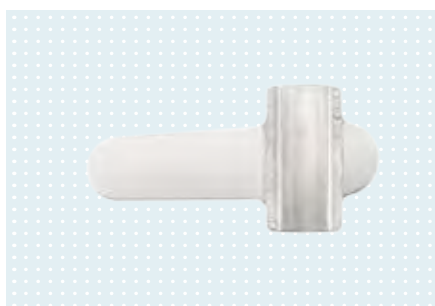
Reference number 17B116

Free motion up to 25° plantar flexion and 25° dorsal extension, with brass bushing



### Technical data

Article number	System width	Thickness	Length from joint center	Material	Quantity unit
17B116=180	20 mm	3 mm	180 mm	Stainless steel	Piece
17B116=200	20 mm	3 mm	200 mm	Stainless steel	Piece
17B116=220	20 mm	3 mm	220 mm	Stainless steel	Piece
17B116=240	20 mm	3 mm	240 mm	Stainless steel	Piece
17B116=260	20 mm	3 mm	260 mm	Stainless steel	Piece
17B116=280	20 mm	3 mm	280 mm	Stainless steel	Piece
17B116=300	20 mm	3 mm	300 mm	Stainless steel	Piece



## System shoe plate, hardened

Reference number 17F35

with insert piece

### Technical data

Article number	Side	Length	Channel width	Material	Quantity unit
17F35=L120	left (L)	120 mm	19 mm	Stainless steel	Piece
17F35=L150	left (L)	150 mm	22 mm	Stainless steel	Piece
17F35=R120	right (R)	120 mm	19 mm	Stainless steel	Piece
17F35=R150	right (R)	150 mm	22 mm	Stainless steel	Piece





### System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece



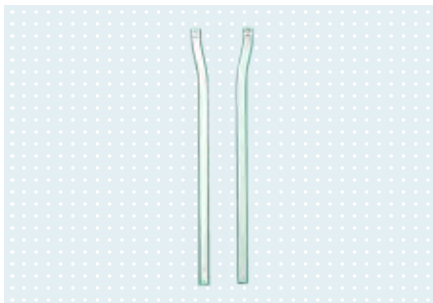
### System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece



### Lower leg side bar

Reference number 17B5

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B5=L16	left (L)	16 mm	450 mm	4 mm	Piece
17B5=R16	right (R)	16 mm	450 mm	4 mm	Piece
17B5=L16-T	left (L)	16 mm	450 mm	4 mm	Piece
17B5=R16-T	right (R)	16 mm	450 mm	4 mm	Piece
17B5=L20	left (L)	20 mm	450 mm	4 mm	Piece
17B5=R20	right (R)	20 mm	450 mm	4 mm	Piece
17B5=L20-T	left (L)	20 mm	450 mm	4 mm	Piece
17B5=R20-T	right (R)	20 mm	450 mm	4 mm	Piece



### Lower leg side bar

Reference number 17B7

Lower leg side bar for the 17B39 system side bar set

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B7=L16	left (L)	16 mm	450 mm	5 mm	Piece
17B7=R16	right (R)	16 mm	450 mm	5 mm	Piece
17B7=L20	left (L)	20 mm	450 mm	5 mm	Piece
17B7=R20	right (R)	20 mm	450 mm	5 mm	Piece



## Lower leg side bar

Reference number 17B87

Lower leg side bar for the 17B84 system side bar set

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B87=L16	left (L)	16 mm	450 mm	4 mm	Piece
17B87=R16	right (R)	16 mm	450 mm	4 mm	Piece
17B87=L20	left (L)	20 mm	450 mm	4 mm	Piece
17B87=R20	right (R)	20 mm	450 mm	4 mm	Piece



## Lower leg side bar

Reference number 17B89

Lower leg side bar for 17B85

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B89=L16	left (L)	16 mm	450 mm	5 mm	Piece
17B89=R16	right (R)	16 mm	450 mm	5 mm	Piece
17B89=L20	left (L)	20 mm	450 mm	5 mm	Piece
17B89=R20	right (R)	20 mm	450 mm	5 mm	Piece



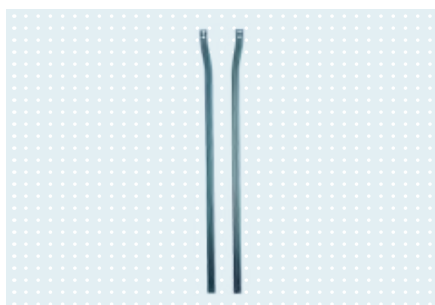
## Lower leg side bar

Reference number 17B102

Lower leg side bar made of stainless steel

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B102=L16	left (L)	16 mm	560 mm	4 mm	Piece
17B102=R16	right (R)	16 mm	560 mm	4 mm	Piece
17B102=L20	left (L)	20 mm	560 mm	4 mm	Piece
17B102=R20	right (R)	20 mm	560 mm	4 mm	Piece



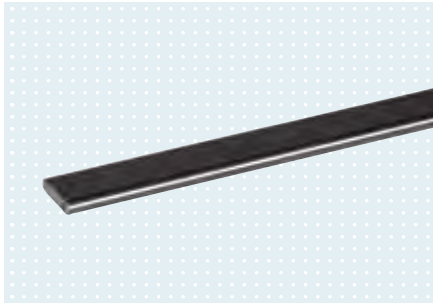
## Lower leg side bar

Reference number 17B104

Lower leg side bar from the 17B41 side bar set

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B104=L16	left (L)	16 mm	560 mm	5 mm	Piece
17B104=R16	right (R)	16 mm	560 mm	5 mm	Piece
17B104=L20	left (L)	20 mm	560 mm	5 mm	Piece
17B104=R20	right (R)	20 mm	560 mm	5 mm	Piece



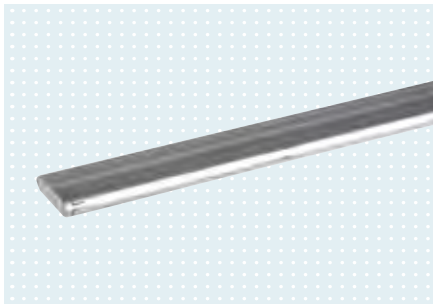
### Stainless steel profile rod

Reference number 651P4

Suitable for fabricating system bars, with rounded edges, strength of approx. 800–950 N/mm<sup>2</sup>, spot weldable

#### Technical data

Article number	Length	Width	Thickness
651P4=16	2,000 mm	16 mm	4 mm
651P4=20	2,000 mm	20 mm	4 mm



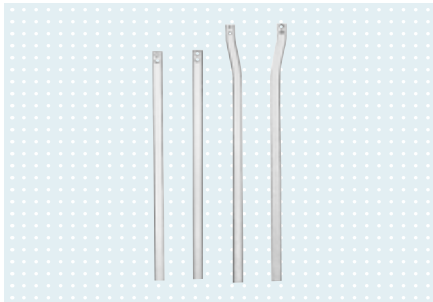
### Light metal profile bar

Reference number 605P8

Suitable for fabricating system splints, with rounded edges, strength approx. 400 N/mm<sup>2</sup>

#### Technical data

Article number	Length	Width	Thickness
605P8=16	2,000 mm	16 mm	5 mm
605P8=20	2,000 mm	20 mm	5 mm



### System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



### System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



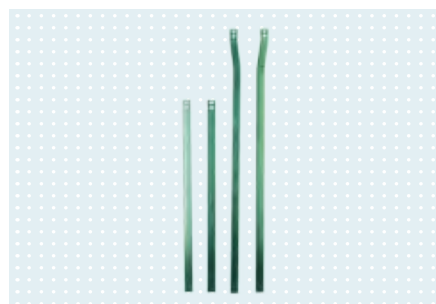
## System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



## System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



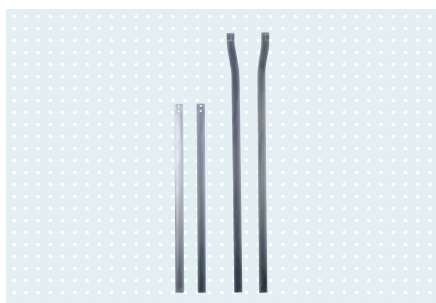
## System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



## System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set



### System ankle joint for children

Reference number 17F53

Multifunction system ankle joint

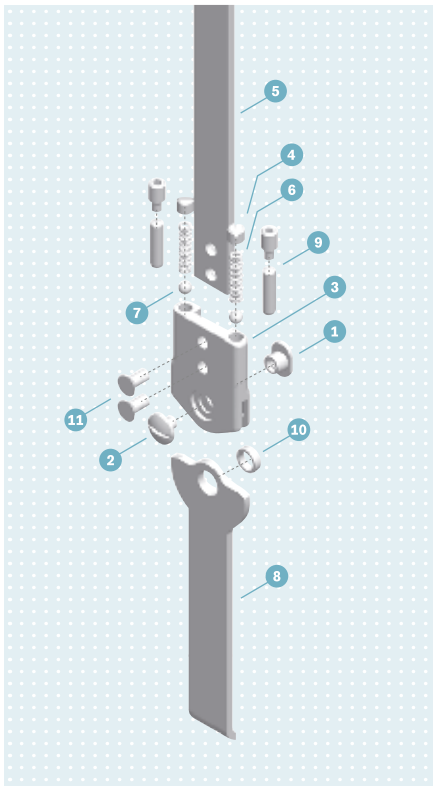
Ankle joints and foot stirrups are stainless steel, side bars are aluminium



#### Technical data

Article number	Bar size	Joint height	Joint depth	Joint width	Material	Quantity unit
17F53=5	230/14/3	38 mm	6.5 mm	28 mm	Stainless steel	Pair
17F53=6	230/12/3	38 mm	6.5 mm	24 mm	Stainless steel	Pair

### Spare parts for 17F53



#### (1) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6X5.2XM4	17F53=5 17F53=6	3.95 mm	12 mm	5.2 mm	M4	6 mm	Piece

#### (2) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	Head Ø	Length	Thread	Material	Quantity unit
501S32=M4X10X7.5	10 mm	7.5 mm	M4	Stainless steel	Piece

#### (3) Ankle joint

Reference number 30U89

#### Technical data

Article number	Spare part for
30U89=5	17F53=5
30U89=6	17F53=6

#### (4) Set screw with slot

Reference number 501G2

#### Technical data

Article number	Material	Quantity unit
501G2=M5X5	Stainless steel	Piece

## (5) Side bar

Reference number 17F52

### Technical data

Article number	Spare part for	Length	Width	Thickness	Material	Quantity unit
17F52=12X3X220	17F53=6	220 mm	12 mm	3 mm	Aluminium	Piece
17F52=14X3X220	17F53=5	220 mm	14 mm	3 mm	Aluminium	Piece

## (6) Compression spring

Reference number 513D19

### Technical data

Article number	Quantity unit
513D19=3.8X20	Piece

## (7) Bearing ball

Reference number 509Y1

### Technical data

Article number	Spare part for	Quantity unit
509Y1=4.0	17F53=5 17F53=6	Piece

## (8) Foot stirrup

Reference number 17F54

### Technical data

Article number	Spare part for	Length	Material	Quantity unit
17F54=100X2.5	17F53=5 17F53=6	100 mm	Stainless steel	Piece
17F54=125X2.5	17F53=5 17F53=6	125 mm	Stainless steel	Piece

## (9) Stop set

Reference number 17Y155

### Technical data

Reference number	Quantity unit
17Y155	Set

## (10) Brass bushing

Reference number 17Y17

### Technical data

Article number	Material	Quantity unit
17Y17=6X8X2.4	Brass	Piece

### (11) Countersunk rivet

Reference number 504S6

#### Technical data

Article number	Material	Quantity unit
504S6=4X8	Stainless steel	Piece

### Accessory for 17F53

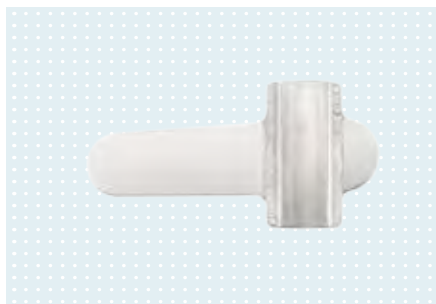


### Foot stirrup

Reference number 17F54

#### Technical data

Article number	Spare part for	Length	Material	Quantity unit
17F54=100X2.5	17F53=5 17F53=6	100 mm	Stainless steel	Piece
17F54=125X2.5	17F53=5 17F53=6	125 mm	Stainless steel	Piece

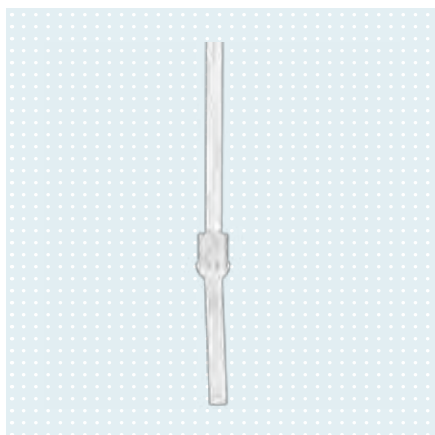


### System shoe plate, hardened

Reference number 17F35

#### Technical data

Article number	Side	Length	Channel width	Material	Quantity unit
17F35=L90	left (L)	90 mm	14 mm	Stainless steel	Piece
17F35=R90	right (R)	90 mm	14 mm	Stainless steel	Piece
17F35=L105	left (L)	105 mm	16 mm	Stainless steel	Piece
17F35=R105	right (R)	105 mm	16 mm	Stainless steel	Piece



## System orthotic ankle joint for children

Reference number 17F65

Multifunction system ankle joint

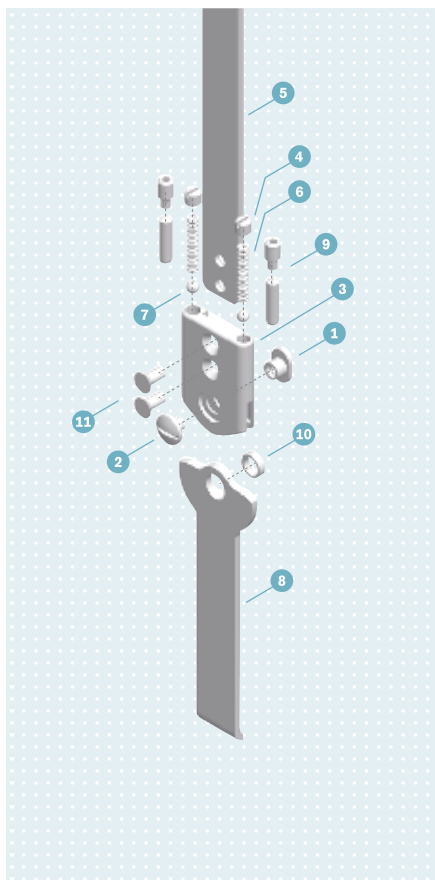
Ankle joints are titanium, foot stirrups are stainless steel



### Technical data

Article number	Bar size	Joint height	Joint depth	Joint width	Material	Quantity unit
17F65=6	150/12/3	38 mm	6.5 mm	24 mm	Titanium	Piece
17F65=5	200/15/3	38 mm	6.5 mm	28 mm	Titanium	Piece

## Spare parts for 17F65



### (1) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6X5.2XM4	17F65=5 17F65=6	3.95 mm	12 mm	5.2 mm	M4	6 mm	Piece

### (2) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	Head Ø	Length	Thread	Material	Quantity unit
501S32=M4X10X7.5	10 mm	7.5 mm	M4	Stainless steel	Piece

### (3) Ankle joint

Reference number 30U116

#### Technical data

Article number	Connection width	Head Ø	Slot width	Material	Quantity unit
30U116=6	12 mm	16 mm	2.5 mm	Titanium	Piece
30U116=5	15 mm	19 mm	2.5 mm	Titanium	Piece

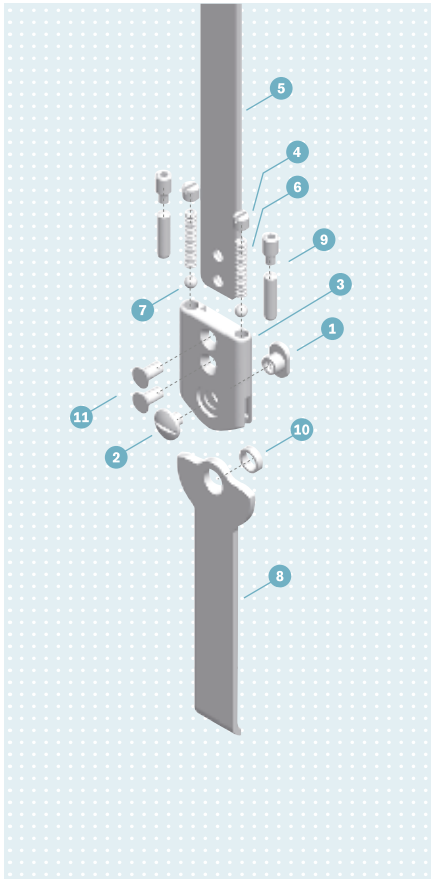
### (4) Set screw with slot

Reference number 501G2

#### Technical data

Article number	Material	Quantity unit
501G2=M5X5	Stainless steel	Piece





### (5) Side bar

Reference number 30E109

#### Technical data

Article number	Length	Material	Quantity unit
30E109=5	200 mm	Titanium	Piece
30E109=6	150 mm	Titanium	Piece

### (6) Compression spring

Reference number 513D19

#### Technical data

Article number	Quantity unit
513D19=3.8X20	Piece

### (7) Bearing ball

Reference number 509Y1

#### Technical data

Article number	Spare part for	Quantity unit
509Y1=4.0	17F65=5 17F65=6	Piece

### (8) Foot stirrup

Reference number 17F54

#### Technical data

Article number	Spare part for	Length	Material	Quantity unit
17F54=100X2.5	17F65=5 17F65=6	100 mm	Stainless steel	Piece
17F54=125X2.5	17F65=5 17F65=6	125 mm	Stainless steel	Piece

### (9) Stop set

Reference number 17Y155

#### Technical data

Reference number	Quantity unit
17Y155	Set

### (10) Brass bushing

Reference number 17Y17

#### Technical data

Article number	Material	Quantity unit
17Y17=6X8X2.4	Brass	Piece

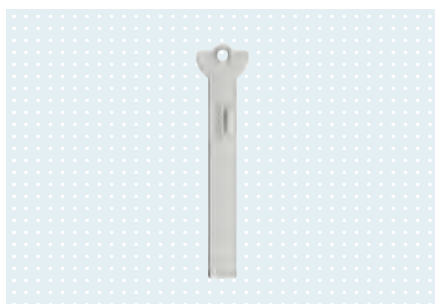
## (11) Countersunk rivet

Reference number 504S6

### Technical data

Article number	Material	Quantity unit
504S6=4X8	Stainless steel	Piece

Accessory for 17F65

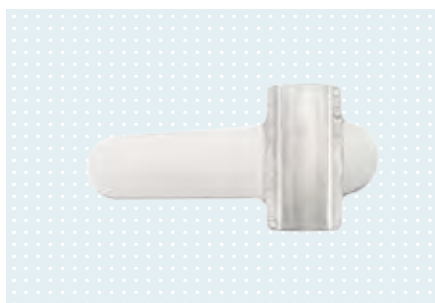


## Foot stirrup

Reference number 17F54

### Technical data

Article number	Spare part for	Length	Material	Quantity unit
17F54=100X2.5	17F65=5 17F65=6	100 mm	Stainless steel	Piece
17F54=125X2.5	17F65=5 17F65=6	125 mm	Stainless steel	Piece



## System shoe plate, hardened

Reference number 17F35

with insert piece

### Technical data

Article number	Side	Length	Channel width	Material	Quantity unit
17F35=L90	left (L)	90 mm	14 mm	Stainless steel	Piece
17F35=L105	left (L)	105 mm	16 mm	Stainless steel	Piece
17F35=R90	right (R)	90 mm	14 mm	Stainless steel	Piece
17F35=R105	right (R)	105 mm	16 mm	Stainless steel	Piece



### CarbonIQ orthotic ankle joint

Reference number 17PA1

The 17PA1 ankle joint is a double-action joint based on Ottobock's 17B66 ankle joint. This type of joint offers the most versatile fitting by far. The different possibilities for settings and combinations allow the functions of this type of joint to be adapted to the user's requirements at any time, even if these change over the course of the fitting. Different versions to influence plantar flexion and dorsal extension are available.



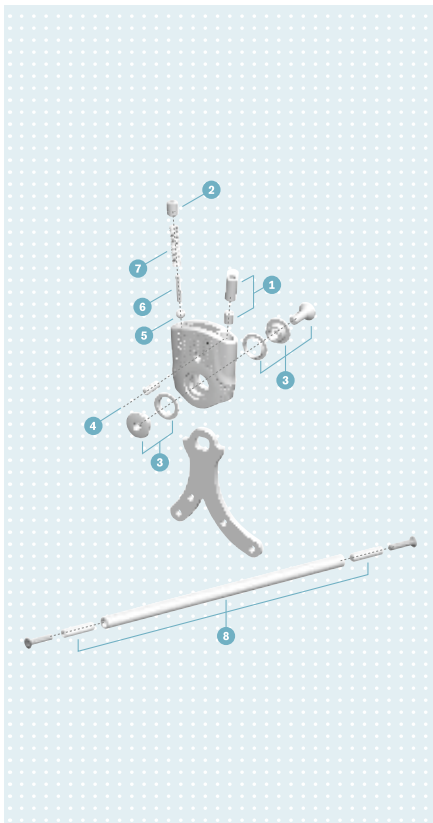
#### Information material

646D578=EN_MASTER	17PK1/17PA1 information for practitioners
646D1306=EN_INT	Ankle joint selection guide
646F595=EN_MASTER	Ankle joints overview
646F465=ALL_INT	AFO selection guide
646T5=4.6EN	TI fabrication of a knee-ankle-foot orthosis using thermoplastic technology with CarbonIQ joint system
647G641	17PA1 instructions for use

#### Technical data

Article number	Side	Max. body weight	Material	Quantity unit
17PA1=14	left, right	45 kg	Plastic reinforced with carbon fibre	Pair
17PA1=20	left, right	100 kg	Plastic reinforced with carbon fibre	Pair

### Spare parts for 17PA1=14



#### (1) Set of Stops

Reference number 30G79

#### Technical data

Article number	Scope of delivery	Quantity unit
30G79	1x set screw 1x cylinder Pin	Set

#### (2) Set screw with end bore

Reference number 30Y289

#### Technical data

Article number	Quantity unit
30Y289	Piece

#### (3) Service set

Reference number 29PA1

#### Technical data

Article number	Scope of delivery	Quantity unit
29PA1=14	1x 501S84=M6X14 1x 30Y215 1x 509G10=12X13X3 1x 30Y214	Set

## (4) Set screw

Reference number 506G21

### Technical data

Article number	Quantity unit
506G21=M4X12	Piece

## (5) Bearing ball

Reference number 509Y1

### Technical data

Article number	Quantity unit
509Y1=5.0	Piece

## (6) Cylinder Pin

Reference number 506A8

### Technical data

Article number	Quantity unit
506A8=2X16	Piece

## (7) Compression spring

Reference number 513D87

### Technical data

Article number	Quantity unit
513D87=0.75X2.95X2	Piece

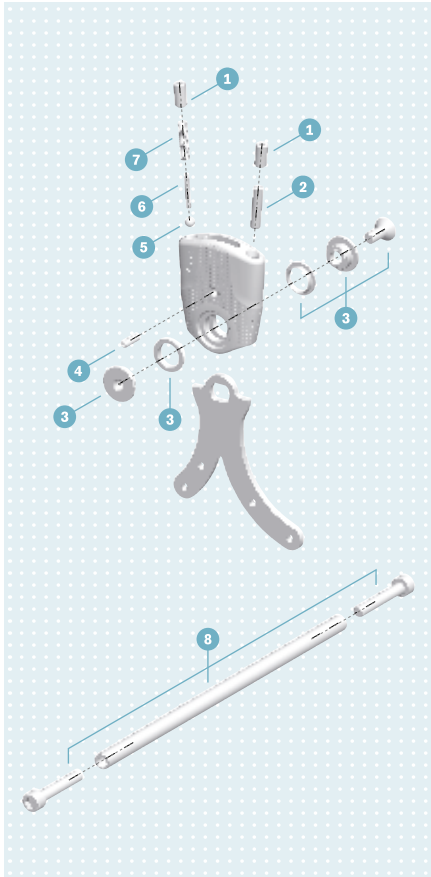
## (8) Adjustment aid

Reference number 29PK4

### Technical data

Article number	Scope of delivery	Quantity unit
29PK4=14	1x flat head screw 1x paralleling tool 1x parallel retainer adapter	Set

### Spare parts for 17PA1=20



#### (1) Gewindestift

Reference number 506G36

##### Technical data

Article number	Quantity unit
506G36=M6X14	Piece

#### (2) Stop Pin (small)

Reference number 506A8

##### Technical data

Article number	Quantity unit
506A8=5X20	Piece

#### (3) Service set

Reference number 29PA1

##### Technical data

Article number	Scope of delivery	Quantity unit
29PA1	1x 501S84=M6X14 1x 30Y215 1x 509G10=12X13X3 1x 30Y214	Set

#### (4) Set screw

Reference number 506G3

##### Technical data

Article number	Quantity unit
506G3=M4X12	Piece

#### (5) Steel Ball

Reference number 509Y1

##### Technical data

Article number	Quantity unit
509Y1=5.0	Piece

#### (6) Stop Pin (small)

Reference number 506A8

##### Technical data

Article number	Quantity unit
506A8=2.5X18	Piece

## (7) Compression spring

Reference number 513D18

### Technical data

Article number	Quantity unit
513D18=4.7X31-1	Piece

## (8) Adjustment aid

Reference number 29PK4

### Technical data

Article number	Scope of delivery	Quantity unit
29PK4	1x cap screw 1x paralleling tool	Set

### Accessory for 17PA1



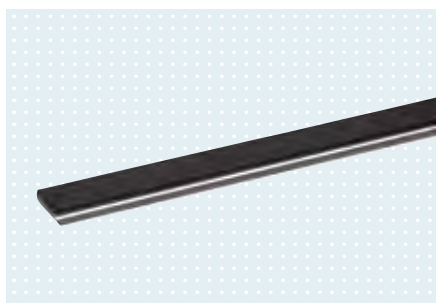
### Foot stirrup

Reference number 17PF1

Foot stirrup for 17PA1 and 17PA1=\*-WR

#### Technical data

Article number	Accessories for	Material	Quantity unit
17PF1=14	17PA1=14 17PA1=14-WR	Stainless steel	Piece
17PF1	17PA1=20 17PA1=20-WR	Stainless steel	Piece



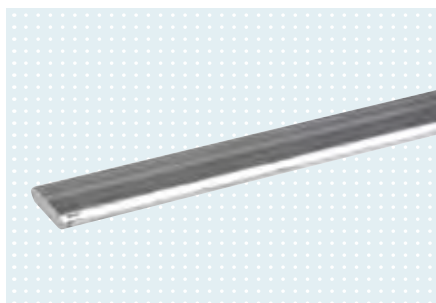
### Stainless steel profile rod

Reference number 651P4

Suitable for fabricating system bars, with rounded edges, strength of approx. 800–950 N/mm<sup>2</sup>, spot weldable

#### Technical data

Article number	Length	Width	Thickness
651P4=16	2,000 mm	16 mm	4 mm
651P4=20	2,000 mm	20 mm	4 mm



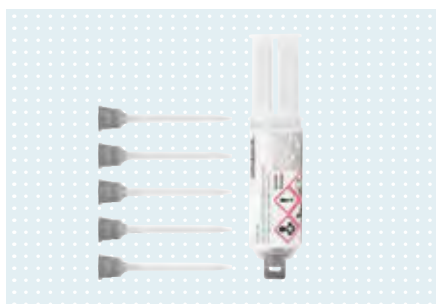
### Light metal profile bar

Reference number 605P8

Suitable for fabricating system splints, with rounded edges, strength approx. 400 N/mm<sup>2</sup>

#### Technical data

Article number	Length	Width	Thickness
605P8=14	1000 mm	14 mm	5 mm
605P8=20	2,000 mm	20 mm	5 mm



### Special adhesive cartridge A and B

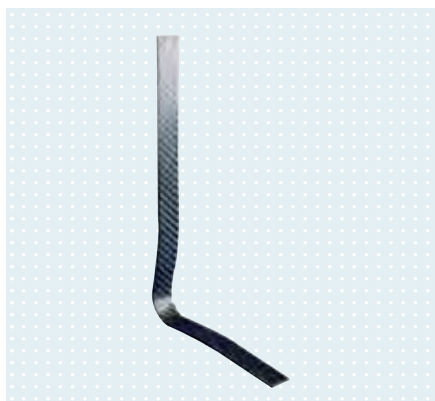
Reference number 636W28

- For adhering foot adapters
- For adhering metal to wood
- For gluing unilateral bar systems and E-MAG knee joints
- Base: epoxy resin and pigments (A), polyaminoamide (B)
- Pasty consistency



#### Technical data

Article number	Net contents	Package contents
636W28	12.5 ml adhesive and 12.5 ml hardener	1 cartridge, 1 piston and 5 static mixers



## Carbon Ankle seven

Reference number 17CF1

Carbon Ankle seven carbon springs make it possible to construct especially lightweight ankle-foot orthoses which are also able to withstand high dynamic loads.

### Features and benefits

- Positive influence on the gait pattern
- Very lightweight design
- Classification makes it easy to select the right product
- Suitable for thermoplastic and laminated orthoses

### Indications

- Paralysis or weakness of the foot lifting and lowering musculature and/or the knee extensors. Examples of typical underlying diseases include
  - Spina bifida
  - Poliomyelitis

### Modes of action

The carbon springs are designed to initiate extension moments of the hip and knee during walking and thus achieve extension and knee stability in the lower limbs. The energy generated during heel strike is stored in the carbon matrix and returned at toe-off. In contrast to conventional ankle joint orthoses, the limits in the plantar and dorsal direction are dynamic and are not subject to static restriction.

### Selecting and ordering

- The Carbon Ankle seven is selected on the basis of the user's body weight and activity level.

### Normal activity level

- A normally active user participates in all everyday activities independently and also performs relatively easy tasks.

### High activity level

- A highly active user is unrestricted in everyday life. The orthosis has to support quick changes in walking and running speeds, e.g. for people who do sports or for children.



### Information material

646D232=EN_MASTER	17CF1 information for practitioners
646D1306=EN_INT	Ankle joint selection guide
646F595=EN_MASTER	Ankle joints overview
646F465=ALL_INT	AFO selection guide
646F464=ALL_INT	KAFO selection guide
647G346=ALL_INT	17CF1 instructions for use

### Scope of delivery

17CF1	Carbon Ankle seven
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### Technical data

Article number	Side	Max. body weight (normal activity)	Max. body weight (high activity)	Spring width	Quantity unit
17CF1=L1	left (L)	100 kg	100 kg	30 mm	Piece
17CF1=R1	right (R)	100 kg	100 kg	30 mm	Piece
17CF1=L2	left (L)	90 kg	80 kg	30 mm	Piece
17CF1=R2	right (R)	90 kg	80 kg	30 mm	Piece
17CF1=L3	left (L)	80 kg	70 kg	30 mm	Piece
17CF1=R3	right (R)	80 kg	70 kg	30 mm	Piece
17CF1=L4	left (L)	70 kg	60 kg	30 mm	Piece
17CF1=R4	right (R)	70 kg	60 kg	30 mm	Piece
17CF1=L5	left (L)	60 kg	50 kg	30 mm	Piece
17CF1=R5	right (R)	60 kg	50 kg	30 mm	Piece
17CF1=L6	left (L)	50 kg		25/30 mm	Piece
17CF1=R6	right (R)	50 kg		25/30 mm	Piece
17CF1=L7	left (L)		40 kg	25 mm	Piece
17CF1=R7	right (R)		40 kg	25 mm	Piece
17CF1=L8	left (L)	40 kg	30 kg	25 mm	Piece
17CF1=R8	right (R)	40 kg	30 kg	25 mm	Piece
17CF1=L9	left (L)	30 kg		25 mm	Piece
17CF1=R9	right (R)	30 kg		25 mm	Piece
17CF1=L10	left (L)		20 kg	25 mm	Piece
17CF1=R10	right (R)		20 kg	25 mm	Piece
17CF1=L11	left (L)	20 kg	10 kg	22 mm	Piece
17CF1=R11	right (R)	20 kg	10 kg	22 mm	Piece
17CF1=L12	left (L)	10 kg		22 mm	Piece
17CF1=R12	right (R)	10 kg		22 mm	Piece

- The scope of delivery includes detailed mounting instructions as well as the mounting materials needed for integration into an orthosis.
- The classification applies to AFOs that are intended to influence the knee joint.
- The use of the Carbon Ankle Seven carbon spring for KAFOs may require a deviation from the classification.
- The specified weights are important for functionality, not durability.

## Components of 17CF1



## Welding nut

Reference number 502E3

**Technical data**

Article number	Quantity unit
502E3=M5X7.5	Piece
502E3=M4X6	Piece

2



## Phillips oval countersunk head screw

Reference number 501S86

**Technical data**

Article number	Quantity unit
501S86=M5X14	Piece
501S86=M4X12	Piece



## Rosette washer

Reference number 507U9

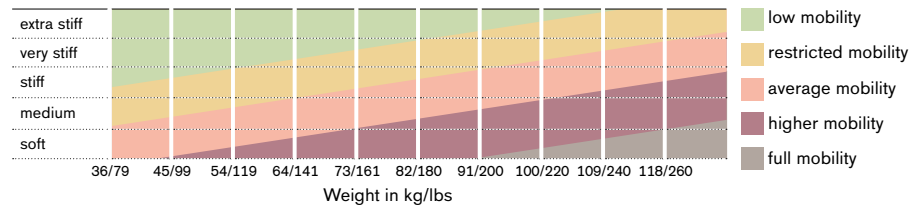
**Technical data**

Article number	Quantity unit
507U9=M5	Piece
507U9=M4	Piece

### Flat CFP- 31cm Soft

Available in different versions to suit various indications, as platform/basis for foot orthoses or in case of partial foot amputations

- Replaces steel spring insert for illnesses that require restricted mobility of the foot
- Improved gait efficiency and comfort through control of excessive mobility or flexion limitation
- Redistribution of pressure to less sensitive areas for diabetes patients
- The carbon fibre foot plates are not thermoformable.



### Carbon fibre foot plate

Reference number SL=F

#### Technical data

Article number	Size	Stiffness (SL)	Version
SL=F16S	16 cm	Soft	Flat
SL=F16M	16 cm	Medium	Flat
SL=F16F	16 cm	Stiff	Flat
SL=F16XF	16 cm	Very stiff	Flat
SL=F16XXF	16 cm	Extra stiff	Flat
SL=F19S	19 cm	Soft	Flat
SL=F19M	19 cm	Medium	Flat
SL=F19F	19 cm	Stiff	Flat
SL=F19XF	19 cm	Very stiff	Flat
SL=F19XXF	19 cm	Extra stiff	Flat
SL=F22S	22 cm	Soft	Flat
SL=F22M	22 cm	Medium	Flat
SL=F22F	22 cm	Stiff	Flat
SL=F22XF	22 cm	Very stiff	Flat
SL=F22XXF	22 cm	Extra stiff	Flat
SL=F25S	25 cm	Soft	Flat
SL=F25M	25 cm	Medium	Flat
SL=F25F	25 cm	Stiff	Flat
SL=F25XF	25 cm	Very stiff	Flat
SL=F25XXF	25 cm	Extra stiff	Flat
SL=F28S	28 cm	Soft	Flat
SL=F28M	28 cm	Medium	Flat
SL=F28F	28 cm	Stiff	Flat
SL=F28XF	28 cm	Very stiff	Flat
SL=F28XXF	28 cm	Extra stiff	Flat
SL=F31S	31 cm	Soft	Flat
SL=F31M	31 cm	Medium	Flat
SL=F31F	31 cm	Stiff	Flat
SL=F31XF	31 cm	Very stiff	Flat
SL=F31XXF	31 cm	Extra stiff	Flat



## Carbon fibre foot plate

Reference number SL=AL

### Technical data

Article number	Size	Stiffness (SL)	Version
SL=AL16S	16 cm	Soft	arched on the left
SL=AL16M	16 cm	Medium	arched on the left
SL=AL16F	16 cm	Stiff	arched on the left
SL=AL16XF	16 cm	Very stiff	arched on the left
SL=AL16XXF	16 cm	Extra stiff	arched on the left
SL=AL19S	19 cm	Soft	arched on the left
SL=AL19M	19 cm	Medium	arched on the left
SL=AL19F	19 cm	Stiff	arched on the left
SL=AL19XF	19 cm	Very stiff	arched on the left
SL=AL19XXF	19 cm	Extra stiff	arched on the left
SL=AL22S	22 cm	Soft	arched on the left
SL=AL22M	22 cm	Medium	arched on the left
SL=AL22F	22 cm	Stiff	arched on the left
SL=AL22XF	22 cm	Very stiff	arched on the left
SL=AL22XXF	22 cm	Extra stiff	arched on the left
SL=AL25S	25 cm	Soft	arched on the left
SL=AL25M	25 cm	Medium	arched on the left
SL=AL25F	25 cm	Stiff	arched on the left
SL=AL25XF	25 cm	Very stiff	arched on the left
SL=AL25XXF	25 cm	Extra stiff	arched on the left
SL=AL28S	28 cm	Soft	arched on the left
SL=AL28M	28 cm	Medium	arched on the left
SL=AL28F	28 cm	Stiff	arched on the left
SL=AL28XF	28 cm	Very stiff	arched on the left
SL=AL28XXF	28 cm	Extra stiff	arched on the left
SL=AL31S	31 cm	Soft	arched on the left
SL=AL31M	31 cm	Medium	arched on the left
SL=AL31F	31 cm	Stiff	arched on the left
SL=AL31XF	31 cm	Very stiff	arched on the left
SL=AL31XXF	31 cm	Extra stiff	arched on the left



## Carbon fibre foot plate

Reference number SL=AR

### Technical data

Article number	Size	Stiffness (SL)	Version
SL=AR16S	16 cm	Soft	arched on the right
SL=AR16M	16 cm	Medium	arched on the right
SL=AR16F	16 cm	Stiff	arched on the right
SL=AR16XF	16 cm	Very stiff	arched on the right
SL=AR16XXF	16 cm	Extra stiff	arched on the right
SL=AR19S	19 cm	Soft	arched on the right
SL=AR19M	19 cm	Medium	arched on the right
SL=AR19F	19 cm	Stiff	arched on the right
SL=AR19XF	19 cm	Very stiff	arched on the right
SL=AR19XXF	19 cm	Extra stiff	arched on the right
SL=AR22S	22 cm	Soft	arched on the right
SL=AR22M	22 cm	Medium	arched on the right
SL=AR22F	22 cm	Stiff	arched on the right
SL=AR22XF	22 cm	Very stiff	arched on the right
SL=AR22XXF	22 cm	Extra stiff	arched on the right
SL=AR25S	25 cm	Soft	arched on the right
SL=AR25M	25 cm	Medium	arched on the right
SL=AR25F	25 cm	Stiff	arched on the right
SL=AR25XF	25 cm	Very stiff	arched on the right
SL=AR25XXF	25 cm	Extra stiff	arched on the right
SL=AR28S	28 cm	Soft	arched on the right
SL=AR28M	28 cm	Medium	arched on the right
SL=AR28M	28 cm	Medium	arched on the right
SL=AR28F	28 cm	Stiff	arched on the right
SL=AR28XF	28 cm	Very stiff	arched on the right
SL=AR28XXF	28 cm	Extra stiff	arched on the right
SL=AR31S	31 cm	Soft	arched on the right
SL=AR31M	31 cm	Medium	arched on the right
SL=AR31XF	31 cm	Very stiff	arched on the right
SL=AR31XXF	31 cm	Extra stiff	arched on the right



## Carbon fibre foot plate

Reference number SL=HAL

### Technical data

Article number	Size	Stiffness (SL)	Version
SL=HAL16S	16 cm	Soft	13 mm heel, arched on the left
SL=HAL16M	16 cm	Medium	13 mm heel, arched on the left
SL=HAL16F	16 cm	Stiff	13 mm heel, arched on the left
SL=HAL16XF	16 cm	Very stiff	13 mm heel, arched on the left
SL=HAL16XXF	16 cm	Extra stiff	13 mm heel, arched on the left
SL=HAL19S	19 cm	Soft	13 mm heel, arched on the left
SL=HAL19M	19 cm	Medium	13 mm heel, arched on the left
SL=HAL19F	19 cm	Stiff	13 mm heel, arched on the left
SL=HAL19XF	19 cm	Very stiff	13 mm heel, arched on the left
SL=HAL19XXF	19 cm	Extra stiff	13 mm heel, arched on the left
SL=HAL22S	22 cm	Soft	13 mm heel, arched on the left
SL=HAL22M	22 cm	Medium	13 mm heel, arched on the left
SL=HAL22F	22 cm	Stiff	13 mm heel, arched on the left
SL=HAL22XF	22 cm	Very stiff	13 mm heel, arched on the left
SL=HAL22XXF	22 cm	Extra stiff	13 mm heel, arched on the left
SL=HAL25S	25 cm	Soft	13 mm heel, arched on the left
SL=HAL25M	25 cm	Medium	13 mm heel, arched on the left
SL=HAL25F	25 cm	Stiff	13 mm heel, arched on the left
SL=HAL25XF	25 cm	Very stiff	13 mm heel, arched on the left
SL=HAL25XXF	25 cm	Extra stiff	13 mm heel, arched on the left
SL=HAL28S	28 cm	Soft	13 mm heel, arched on the left
SL=HAL28M	28 cm	Medium	13 mm heel, arched on the left
SL=HAL28F	28 cm	Stiff	13 mm heel, arched on the left
SL=HAL28XF	28 cm	Very stiff	13 mm heel, arched on the left
SL=HAL28XXF	28 cm	Extra stiff	13 mm heel, arched on the left
SL=HAL31S	31 cm	Soft	13 mm heel, arched on the left
SL=HAL31M	31 cm	Medium	13 mm heel, arched on the left
SL=HAL31F	31 cm	Stiff	13 mm heel, arched on the left
SL=HAL31XF	31 cm	Very stiff	13 mm heel, arched on the left
SL=HAR31XXF	31 cm	Extra stiff	13 mm heel, arched on the left
SL=HAL31XXF	31 cm	Extra stiff	13 mm heel, arched on the left



## Carbon fibre foot plate

Reference number SL=HAR

### Technical data

Article number	Size	Stiffness (SL)	Version
SL=HAR16S	16 cm	Soft	13 mm heel, arched on the right
SL=HAR16M	16 cm	Medium	13 mm heel, arched on the right
SL=HAR16F	16 cm	Stiff	13 mm heel, arched on the right
SL=HAR16XF	16 cm	Very stiff	13 mm heel, arched on the right
SL=HAR16XXF	16 cm	Extra stiff	13 mm heel, arched on the right
SL=HAR19S	19 cm	Soft	13 mm heel, arched on the right
SL=HAR19M	19 cm	Medium	13 mm heel, arched on the right
SL=HAR19F	19 cm	Stiff	13 mm heel, arched on the right
SL=HAR19XF	19 cm	Very stiff	13 mm heel, arched on the right
SL=HAR19XXF	19 cm	Extra stiff	13 mm heel, arched on the right
SL=HAR22S	22 cm	Soft	13 mm heel, arched on the right
SL=HAR22M	22 cm	Medium	13 mm heel, arched on the right
SL=HAR22F	22 cm	Stiff	13 mm heel, arched on the right
SL=HAR22XF	22 cm	Very stiff	13 mm heel, arched on the right
SL=HAR22XXF	22 cm	Extra stiff	13 mm heel, arched on the right
SL=HAR25S	25 cm	Soft	13 mm heel, arched on the right
SL=HAR25M	25 cm	Medium	13 mm heel, arched on the right
SL=HAR25F	25 cm	Stiff	13 mm heel, arched on the right
SL=HAR25XF	25 cm	Very stiff	13 mm heel, arched on the right
SL=HAR25XXF	25 cm	Extra stiff	13 mm heel, arched on the right
SL=HAR28S	28 cm	Soft	13 mm heel, arched on the right
SL=HAR28M	28 cm	Medium	13 mm heel, arched on the right
SL=HAR28F	28 cm	Stiff	13 mm heel, arched on the right
SL=HAR28XF	28 cm	Very stiff	13 mm heel, arched on the right
SL=HAR28XXF	28 cm	Extra stiff	13 mm heel, arched on the right
SL=HAR31S	31 cm	Soft	13 mm heel, arched on the right
SL=HAR31M	31 cm	Medium	13 mm heel, arched on the right
SL=HAR31F	31 cm	Stiff	13 mm heel, arched on the right
SL=HAR31XF	31 cm	Very stiff	13 mm heel, arched on the right



## Contoured CFP- 22M

Reference number SL=CFP

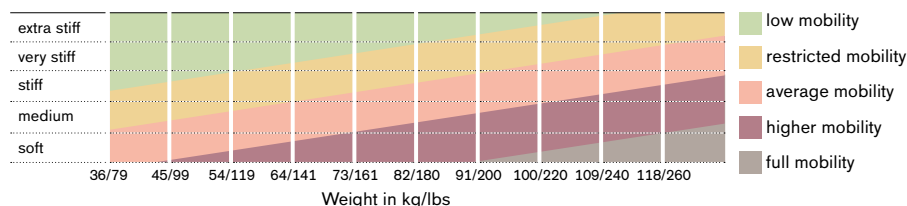
### Technical data

Article number	Size	Stiffness (SL)	Version
SL=CFP22S	22 cm	Soft	contoured
SL=CFP22M	22 cm	Medium	contoured
SL=CFP22F	22 cm	Stiff	contoured
SL=CFP22XF	22 cm	Very stiff	contoured
SL=CFP22XXF	22 cm	Extra stiff	contoured
SL=CFP25S	25 cm	Soft	contoured
SL=CFP25M	25 cm	Medium	contoured
SL=CFP25F	25 cm	Stiff	contoured
SL=CFP25XF	25 cm	Very stiff	contoured
SL=CFP25XXF	25 cm	Extra stiff	contoured
SL=CFP28S	28 cm	Soft	contoured
SL=CFP28M	28 cm	Medium	contoured
SL=CFP28F	28 cm	Stiff	contoured
SL=CFP28XF	28 cm	Very stiff	contoured
SL=CFP28XXF	28 cm	Extra stiff	contoured
SL=CFP31S	31 cm	Soft	contoured
SL=CFP31M	31 cm	Medium	contoured
SL=CFP31F	31 cm	Stiff	contoured
SL=CFP31XF	31 cm	Very stiff	contoured
SL=CFP31XXF	31 cm	Extra stiff	contoured



### Morton's extension

For the treatment of Morton's neuroma, hallux rigidus, stress fractures and hallux malleus (Turf toe™) – 13 mm heel



### Morton's extension

Reference number SL=ME

#### Technical data

Article number	Side	Stiffness (SL)	Version
SL=ME-F-M		Medium	Standard (20 cm) + flat
SL=ME-F-F		Stiff	Standard (20 cm) + flat
SL=ME-CR-M	right	Medium	Standard (20 cm) + contoured
SL=ME-CL-M	left	Medium	Standard (20 cm) + contoured
SL=ME-CR-F	right	Stiff	Standard (20 cm) + contoured
SL=ME-CL-F	left	Stiff	Standard (20 cm) + contoured



### Morton's extension

Reference number SL=MEL

#### Technical data

Article number	Side	Stiffness (SL)	Version
SL=MEL-F-M		Medium	Long (25.5 cm) + flat
SL=MEL-F-F		Stiff	Long (25.5 cm) + flat
SL=MEL-CR-M	right	Medium	Long (25.5 cm) + contoured
SL=MEL-CL-M	left	Medium	Long (25.5 cm) + contoured
SL=MEL-CR-F	right	Stiff	Long (25.5 cm) + contoured
SL=MEL-CL-F	left	Stiff	Long (25.5 cm) + contoured







# KAFO/KO

All knee joints and knee joint systems, including traditional mechanical and mechatronic, are presented in this section.



Visit **Ottobock Scandinavia professionals site** to obtain up-to-date product information at any time.



### C-Brace® orthotronic mobility system

Reference number 17KO1000=0\_B

The C-Brace® supports the user during the gait cycle and adapts to any everyday situation in real time. Flexion under load, walking over uneven terrain and on slopes or going down stairs step-over-step: all this defines a new level of mobility. The new C-Brace® is smaller, lighter and can be worn inconspicuously under clothing.

#### Key features

- Unique SSCO® system (Stance and Swing Phase Control Orthosis)
- Microprocessor-controlled stance and swing phase
- Entire gait cycle can be controlled dynamically and in real time
- System responds quickly to any everyday situation

#### Indications

- Unilateral or bilateral flaccid leg paresis or paralysis
- Physical prerequisites such as muscle status, joint mobility and possible axis deviations are crucial, as they must guarantee proper control of the orthosis.
- The user must fulfil the physical and mental requirements for perceiving optical/acoustic signals and/or mechanical vibrations.
- The existing muscle strength of the hip extensors and flexors must permit the controlled swing-through of the limb

#### Contraindications

- Flexion contracture in the knee and/or hip joint > 10°
- Varus malposition > 10° or valgus malposition > 10°
- Severe spasticity
- Body weight > 125 kg

#### Relative contraindications

- Spasticity
- Certification is required for the C-Brace® orthotronic mobility system! Please contact your customer service representative or your regional contact person regarding this.

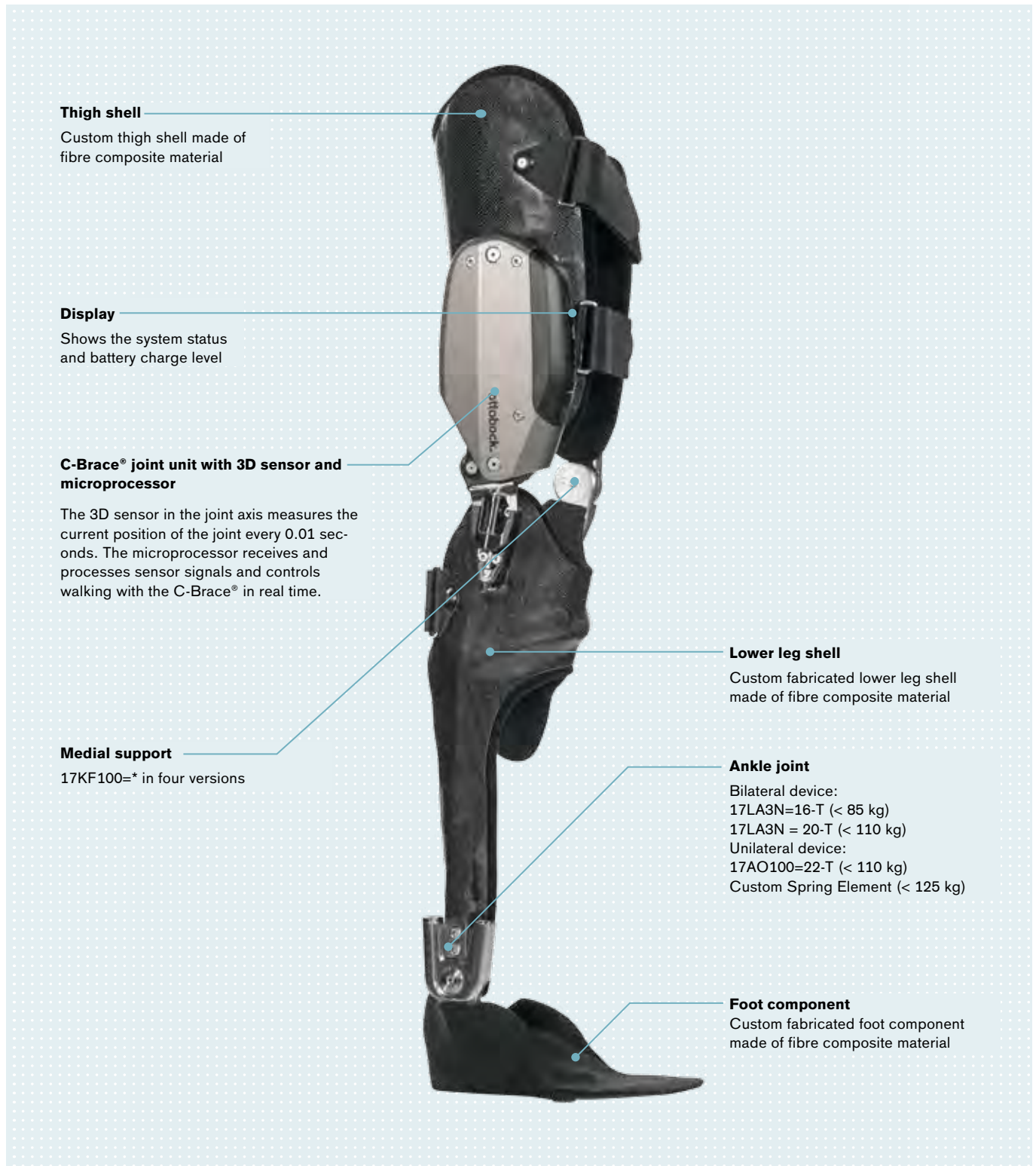
#### Information material

646D1300=DE_MASTER	C-Brace® information for practitioners
646M83=EN_MASTER	C-Brace® patient selection aid
646M84=EN_MASTER	C-Brace® medical history form
647F340=EN_MASTER	C-Brace® trial fitting documentation form
647F591=EN_MASTER	C-Brace® custom fabrication order form
647F594=EN_MASTER	C-Brace order form
647G1337	C-Brace® instructions for use
646D1358=EN_INT	Clinical studies – C-Brace®
646A339=EN_INT	C-Brace® therapy information
646F430=EN_INT	C-Brace® therapy exercises poster
646H8=EN_INT	C-Brace® user information
646H9=ALL_INT	Orthotic Passport
646D1182	C-Brace® instructions for use (user)
646D1325=EN_MASTER	C-Brace® service pass
646D1390=EN_MASTER	C-Brace® service FAQ (external)
646V92=INT	Video on print C-Brace®



## C-Brace®

## What's inside



### Components of 17KO1000=0\_B



#### C-Brace® joint unit

Reference number 17KO1

The C-Brace® joint unit contains a 3D sensor in the joint axis, which measures the current position of the joint every 0.01 seconds. A microprocessor receives and processes the sensor signals and controls walking with the C-Brace® in real time.

##### Technical data

Article number	Side	Max. body weight
17KO1=L	left (L)	125 kg
17KO1=R	right (R)	125 kg



#### Tablet with C-Brace® Setup app

Reference number 570A16

Samsung Galaxy tablet with Android operating system. Optional accessory; the Setup app can be downloaded directly from the App Store (iOS) or Play Store (Android).

##### Technical data

Article number
570A16=V1

- Setup app pre-installed
- Please note that the seal of the packaging is broken on delivery, due to the pre-installation of the Setup app.



#### C-Brace® medial support

Reference number 17KF100

Four different versions of the medial support required for the C-Brace® orthosis. To select the appropriate version, please use the 17KF100A=DY-16 medial support dummy.

##### Selecting and ordering

The medial support can be used on both sides. The version information refers to the use of the medial support on the right side. For use on the left side, the offset is the other way around.



##### Technical data

Article number	Version	Bar width	Side	for
17KF100=16-1-T	Straight	16 mm	both sides	adults
17KF100=16-2-T	Bottom contoured	16 mm	both sides	adults
17KF100=16-3-T	Top contoured	16 mm	both sides	adults
17KF100=16-4-T	Bilateral contoured	16 mm	both sides	adults



## C-Brace® medial support dummy set

Reference number 17KF100A

Dummy set for choosing the appropriate version of the 17KF100 C-Brace® medial support.

### Technical data

#### Article number

17KF100A=DY-16



## Unilateral C-Brace® ankle joint

Reference number 17AO100

The 17AO100 unilateral ankle joint is a multifunction system ankle joint with a dorsiflexion effect. It is approved only in combination with the C-Brace®.



### Technical data

Article number	Bar width	Max. body weight
17AO100=22-T	22 mm	110 kg

- Lamination bar and foot stirrup are included in scope of delivery.





### Unilateral system ankle joint

Reference number 17LA3N

The 17LA3N unilateral ankle joint is a multifunction system ankle joint with a dorsiflexion effect.

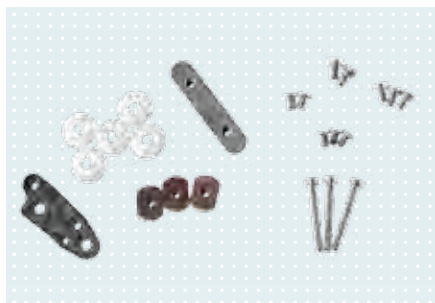


#### Technical data

Article number	System width	Max. body weight	Material	Quantity unit
17LA3N=16-T	16 mm	85 kg (bilateral)	Titanium	Piece
17LA3N=20-T	20 mm	55 kg (unilateral) / 110 kg (bilateral)	Titanium	Piece

- Lamination bar and foot stirrup are not included in scope of delivery! Please order separately.

## Spare parts for 17KO1000=0\_B

**Mounting set for C-Brace®**

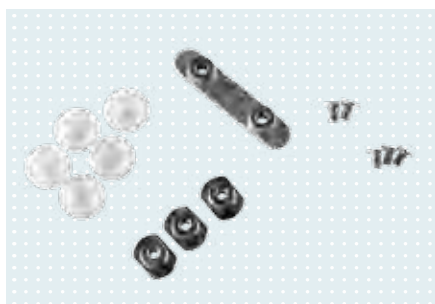
Reference number 17KO1A=\*-Set-1

Mounting set for fabrication of a C-Brace® interim orthosis with loaner joint unit.

**Technical data**

Article number	Side
17KO1A=L-SET-1	left (L)
17KO1A=R-SET-1	right (R)

- All mounting components required to fabricate a C-Brace® orthotronic mobility system are already included in the scope of delivery of the 17KO1\* C-Brace® joint unit.

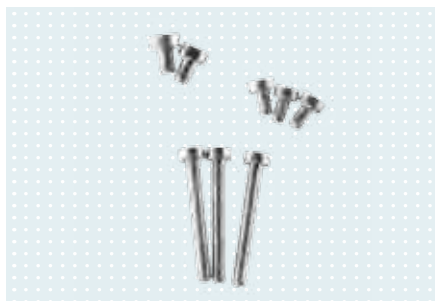
**Fabrication set for C-Brace®**

Reference number 17KO1A=SET-2

Positioning and connection elements for subsequent attachment of the C-Brace® joint unit.

**Technical data**

Article number
17KO1A=SET-2

**Screw set for C-Brace® joint connection**

Reference number 17KO1A=Set-1

Mounting screws for connection of the C-Brace® joint unit

**Technical data**

Article number
17KO1A=SET-1

**Correction adapter set for C-Brace®**

Reference number 17KO1A=SET

Sliding adapter for interim orthoses (optional)

**Technical data**

Article number
17KO1A=SET

- i** **Information for specialist dealers 17KO1A=SET**
- For use with the 17B44 orthotic knee joint

### Accessory for 17K01000=0\_B



### C-Brace<sup>®</sup> fabrication dummy

Reference number 799A1

Fabrication dummy for the correct positioning of the 17K01 C-Brace<sup>®</sup> joint unit.

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**Technical data****Article number**

799A1

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### Positioning template for C-Brace<sup>®</sup> fabrication dummy

Reference number 799Y17

Positioning template for the C-Brace<sup>®</sup> joint unit

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**Technical data****Article number**

799Y17

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### Battery charger

Reference number 4E50-2

For the C-Brace<sup>®</sup> orthotronic mobility system, the C-Leg knee joint and the Meridium prosthetic foot.

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**Technical data****Article number**

4E50-2

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### Power supply unit

Reference number 757L16-4

Power supply for electronic prosthetic components and orthoses of Ottobock. EU and US adapter are included in the scope of delivery, additional adapters can be ordered separately.

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**Technical data****Article number**

757L16-4

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## Diagnostic trial orthosis for C-Brace®

Reference number 17KT1

The diagnostic trial orthosis allows you to test the treatment of a patient with the C-Brace® for function and patient acceptance in advance.

### Technical data

Article number	Side	Max. body weight	for
17KT1=L-S	left (L)	125 kg	Patients with a body height of between 1.50 m and 2.00 m
17KT1=R-S	right (R)	125 kg	Patients with a body height of between 1.50 m and 2.00 m

- The DTO is a loaner unit (17KT1=\*-S). Please contact your local contact person if you would like to purchase a DTO (17KT1=\*).

### Fitting information

Ottobock recommends briefly testing the DTO for no more than one hour. The attending O&P professional is responsible for making a concrete evaluation. However, the DTO should only be worn under the O&P professional's supervision. The DTO is not to be handed over to the user.



## C-Brace® joint unit

Reference number 17KO1

The C-Brace® joint unit contains a 3D sensor in the joint axis, which measures the current position of the joint every 0.01 seconds. A microprocessor receives and processes the sensor signals and controls walking with the C-Brace® in real time.

### Technical data

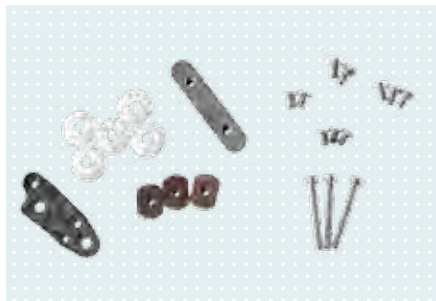
Article number	Side	Max. body weight
17KO1=L-S	left (L)	125 kg
17KO1=R-S	right (R)	125 kg

- These are loaner joints (17KO1=\*-S) that can be obtained from the MASC (Manufacturer's After-Sales Service Center). If you want to purchase a joint, please use article number 17KO1=\*.

### Information material

646D1300=EN_INT	C-Brace® information for practitioners
646H8=EN_INT	C-Brace® user information
646D1390=EN_MASTER	C-Brace® service FAQ (external)
646D1325=EN_MASTER	C-Brace® service pass

### Spare parts for 17KO1



### Mounting set for C-Brace®

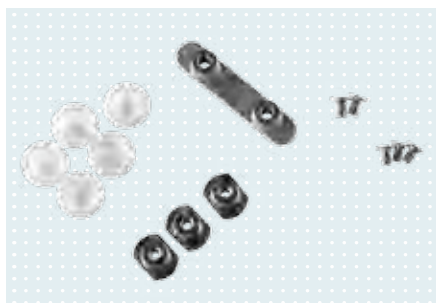
Reference number 17KO1A=\*-Set-1

Mounting set for fabrication of a C-Brace® interim orthosis with loaner joint unit.

#### Technical data

Article number	Side
17KO1A=L-SET-1	left (L)
17KO1A=R-SET-1	right (R)

- All mounting components required to fabricate a C-Brace® orthotronic mobility system are already included in the scope of delivery of the 17KO1\* C-Brace® joint unit.



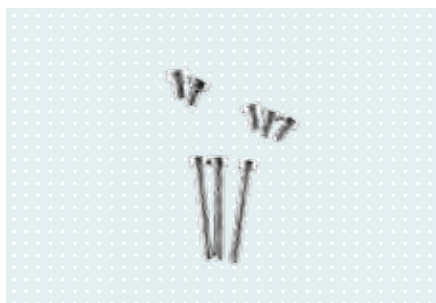
### Fabrication set for C-Brace®

Reference number 17KO1A=SET-2

Positioning and connection elements for subsequent attachment of the C-Brace® joint unit.

#### Technical data

Article number
17KO1A=SET-2



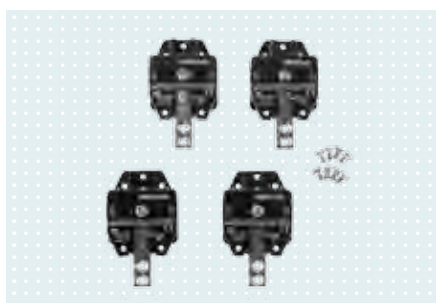
### Screw set for C-Brace® joint connection

Reference number 17KO1A=Set-1

Mounting screws for connection of the C-Brace® joint unit

#### Technical data

Article number
17KO1A=SET-1



### Correction adapter set for C-Brace®

Reference number 17KO1A=SET

Sliding adapter for trial orthoses (optional)

#### Technical data

Article number
17KO1A=SET



#### Information for specialist dealers 17KO1A=SET

- For use with the 17B44 orthotic knee joint

## “SSCO” – Stance and Swing Phase Control Orthosis – C-Brace® order form

Customer		Shipping address (if different from customer address)	
Customer no.	<input type="text"/>	Customer no.	<input type="text"/>
Company	<input type="text"/>	Company	<input type="text"/>
Street	<input type="text"/>	Street	<input type="text"/>
Postal code / city	<input type="text"/>	Postal code / city	<input type="text"/>
O&P professional	<input type="text"/>	Com.	<input type="text"/>

Initial orthotic fitting with C-Brace®

Follow-up fitting

**Previously fitted with**

17B300=R C-Brace® .....  
Serial number

17KO1=R C-Brace® .....  
Serial number

17B300=L C-Brace® .....  
Serial number

17KO1=L C-Brace® .....  
Serial number

Fitting after trial fitting with loaner joints

### Orthosis user

Weight ..... kg

Affected side  left  right  bilateral\*

Height ..... cm

\* If bilateral, please fill out one order sheet each for the right and the left leg!

### Medial support (selection required)

Art. no.	Description
<input type="checkbox"/> 17KF100=16-1-T	Proximal and distal straight (R and L)
<input type="checkbox"/> 17KF100=16-2-T	Proximal straight, distal angled (L)
<input type="checkbox"/> 17KF100=16-3-T	Proximal straight, distal angled (R)
<input type="checkbox"/> 17KF100=16-4-T	Proximal and distal angled (R and L)

• **Note:** Delivered with two 17LS3=16-T lamination bars invoiced separately.

### Warranty option

Art. no.	Description
<input type="checkbox"/> SP-17KO1=6	Extension of warranty to six years

• **Note:** We offer the option of extending the warranty to six years. This makes it even easier for you to keep track of the costs incurred and minimises the effort on your part. You can take advantage of this option up to 36 months after the delivery date.

Subject to the general business terms and conditions of Ottobock SE & Co. KGaA. Errors and price changes reserved.

### Ankle joint (selection required)

none (fitting with custom spring – < 125 kg)

#### Unilateral (one joint)

17AO100=22-T (up to 110 kg)  
.....  
 17LA3N=20-T (up to 55 kg)\*  
.....

#### Bilateral (two joints)

17LA3N=16-T (< 85 kg)\*  
.....  
 17LA3N=20-T (< 110 kg)\*  
.....

\* Delivered with foot stirrup and lamination bars invoiced separately.

### Tablet

Qty	Art. no.	Description
	570A16=V1	Samsung Galaxy (incl. setup app)

### Desired shipping date

.....  
(generally delivered one to two working days after shipping)

Date ..... City ..... Signature .....

## “SSCO” – Stance and Swing Phase Control Orthosis – C-Brace® iFab order form

Customer		Shipping address (if different from customer address)	
Customer no.	<input type="text"/>	Customer no.	<input type="text"/>
Company	<input type="text"/>	Company	<input type="text"/>
Street	<input type="text"/>	Street	<input type="text"/>
Postal code/city	<input type="text"/>	Postal code/city	<input type="text"/>
Orthotist	<input type="text"/>	Com.	<input type="text"/>

Initial orthotic fitting with C-Brace®

Follow-up fitting

**Previously treated with**

17B300=R C-Brace® .....  
Serial number

17KO1=R C-Brace® .....  
Serial number

17B300=L C-Brace® .....  
Serial number

17KO1=L C-Brace® .....  
Serial number

**Treatment** after trial fitting with loaner joints

### Orthosis user

Weight ..... kg

Height ..... cm

Affected side  Left  Right  Bilateral\*

\* If bilateral, please fill in one order form each for the right and the left leg!

### Medial support (selection required)

Art. no.	Description
<input type="checkbox"/> 17KF100=16-1-T	Proximal and distal straight (R and L)
<input type="checkbox"/> 17KF100=16-2-T	Proximal straight, distal angled (L)
<input type="checkbox"/> 17KF100=16-3-T	Proximal straight, distal angled (R)
<input type="checkbox"/> 17KF100=16-4-T	Proximal and distal angled (R and L)

• **Note:** Delivered with two 17LS3=16-T lamination bars invoiced separately.

### Orthotic ankle joint (selection required)

**None (device with custom spring – < 125 kg)**

#### Unilateral (one joint)

17AO100=22-T (up to 110 kg)

17LA3N=20-T (up to 55 kg)\*

#### Bilateral (two joints)

17LA3N=16-T (< 85 kg)\*

17LA3N=20-T (< 110 kg)\*

\* Delivered with foot stirrup and lamination bars invoiced separately.

### Warranty option

Art. no.	Description
<input type="checkbox"/> SP-17KO1=6	Extension of warranty to six years

• **Note:** We offer the option of extending the warranty to six years. This makes it even easier for you to keep track of the costs incurred and minimises the effort on your part. You can take advantage of this option up to 36 months after the delivery date.

### Tablet

Quantity	Art. no.	Description
	570A16=V1	Samsung Galaxy (incl. setup app)

### Desired shipping date

(generally delivered one to two working days after shipping)

Subject to the general business terms and conditions of Ottobock SE & Co. KGaA. Errors and price changes reserved.

### Ordering options

- IP3141=\* mill foam model**, the following options may also apply<sup>1</sup>
  - IP8010=1 milling job (convert .cpxp to .stl)
  - IP8010=2 conversion
  - IP3180=1 glue metal cores in place
  - IP3180=3 square box spanner for alignment axis
- SF28=T4 thermoplastic test orthosis (to check the fit and static alignment)**
- SF28=M4 plaster model of the thermoplastic test orthosis**
- SF28K=L/R-KAFO-4 prepreg frame (incl. hook-and-loop pocket, unfinished carbon fibre look)<sup>2</sup>**
- SF28=F2 fabrication – padding and closures<sup>3</sup>**
- SF28=C1 surface design**

1 | Sub-options deviate as specified  
 2 | Please mark the position, size and thickness of the hook-and-loop pockets  
 3 | If the “Fabrication” ordering option is selected, straps and padding are included as specified

### Padding dummy

- Prepare the orthosis directly on the cast, **without** allowing for any padding distance
- The cast is shaped without padding distance. Please allow a padding distance for the:
  - Thigh of .....mm
  - Lower leg of .....mm
  - Foot of .....mm

### Padding

Thigh and lower leg	Foot
<input type="checkbox"/> 623F109=* ComforTex soft, 4 mm	<input type="checkbox"/> 617S90=2 Dino foam, black/white, 2 mm
<input type="checkbox"/> 623F110=* ComforTex smooth, 4 mm	<input type="checkbox"/> 617S3=W2 Pedilin, white, 2 mm
<input type="checkbox"/> 623F112=* ComforTex grippy, 4 mm	<input type="checkbox"/> 617S3=W3 Pedilin, white, 3 mm
<input type="checkbox"/> 623F62=* ComforTex air, 3 mm	

### Closures

If the “Fabrication” ordering option is selected, straps and padding are included as specified. Otherwise only closure pockets are considered.

..... <b>Thigh strap(s)</b>	..... <b>Lower leg strap(s)</b>
<b>Side for strap guide loop</b>	<b>Side for strap guide loop</b>
<input type="checkbox"/> Medial <input type="checkbox"/> Lateral	<input type="checkbox"/> Medial <input type="checkbox"/> Lateral
<b>Strap width</b>	<b>Strap width</b>
<input type="checkbox"/> 40 mm <input type="checkbox"/> 50 mm	<input type="checkbox"/> 40 mm <input type="checkbox"/> 50 mm
<b>Strap material</b>	
<input type="checkbox"/> 21Y75N hook-and-loop closure, carbon fibre look	<input type="checkbox"/> 21Y78 hook-and-loop closure with weld seams, black

### Sole

	Rollover without resistance	Dynamic	Spring stiffness	Stiff
Forefoot characteristics	<input type="checkbox"/> 1 Soft	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> Stiff
Heel	<input type="checkbox"/> 1 Soft	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 5 <input type="checkbox"/> Stiff

### Surface treatment

- Unfinished carbon look (standard)**
  - SF28=C1 finished glossy carbon look\***
- \*surcharge applicable

**i** A carbon anterior tibial shell must be provided if the lower leg frame is in the posterior position.

Date ..... City ..... Signature .....





### Patient selection aid for the C-Brace®

The selection aid helps to determine whether a patient is suitable for a C-Brace®. However, this document should be considered only an aid. For the final decision, please fit the patient with a diagnostic trial orthosis (DTO).

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#### Cognitive requirements

The patient must be capable of ensuring the proper handling, care and use of the orthosis (e.g. hearing acoustic signals).

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#### Functional deficit

Neuromuscular instability of the knee joint in the sagittal plane

Diagnosis (by the physician):

.....

---

#### Exclusion criteria

If any of the following apply to your patient, he or she cannot be fitted with a C-Brace® at this time:

.....

- Swing phase initiation from a standing position is not possible**

.....
  - Weight over 125 kg**

.....
  - Severe spasticity**

.....
  - Leg shortened more than 15 cm**

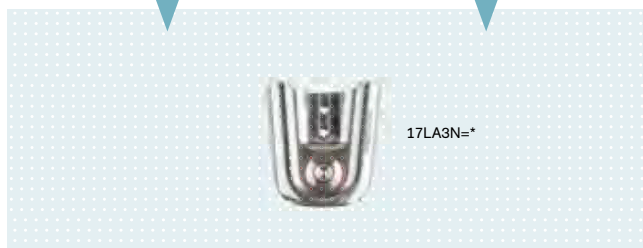
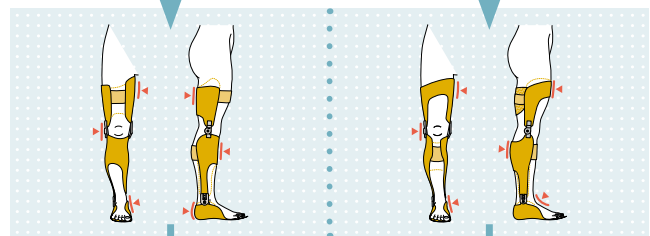
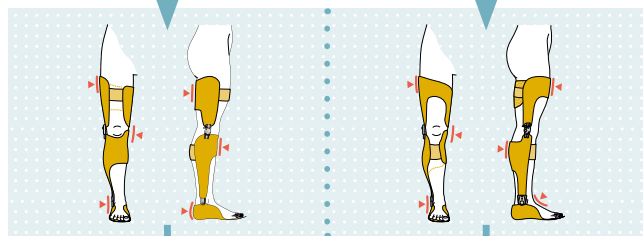
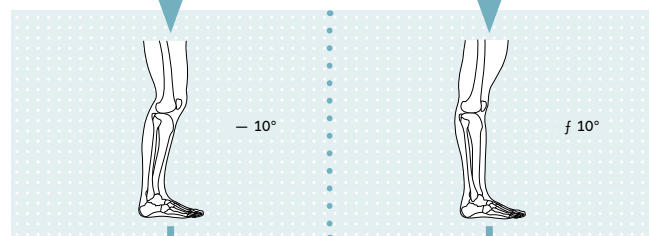
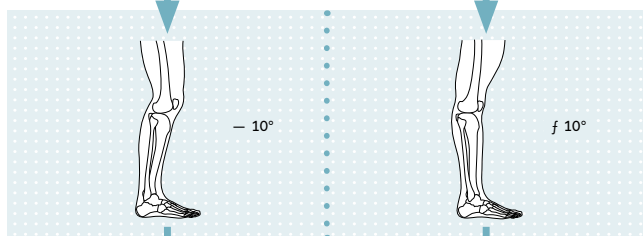
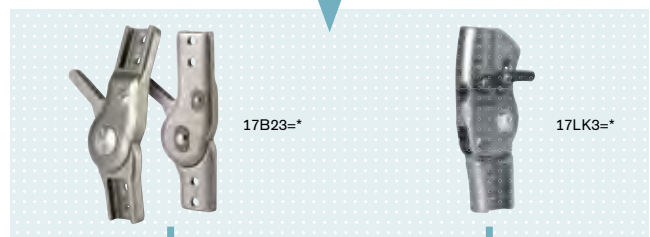
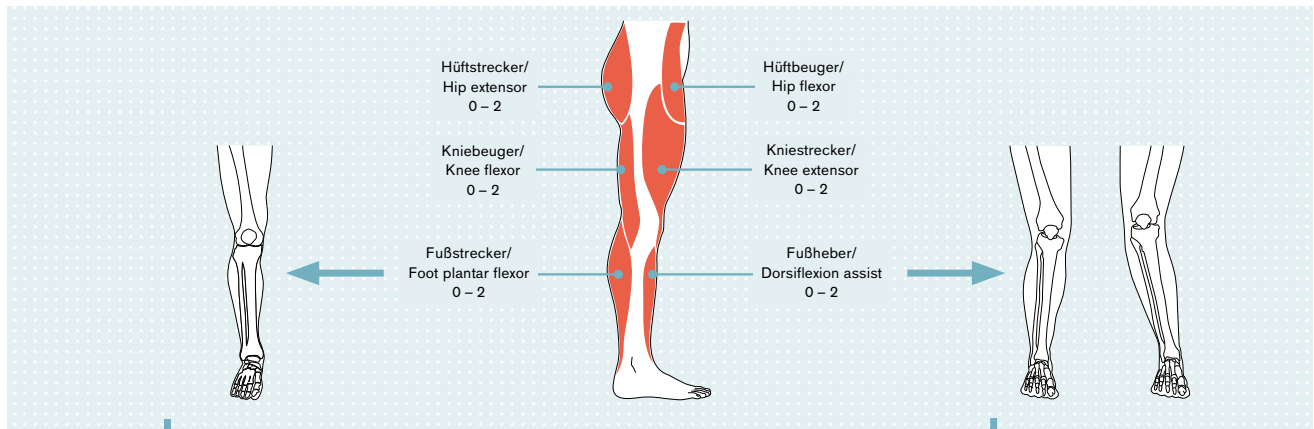
.....
  - Knee and hip flexion contracture more than 10°**

.....
  - Insufficient neuromuscular trunk stability for the trial phase**

.....
  - Diseases that preclude the use of an orthosis (e.g. oedema, extensive skin irritation)**

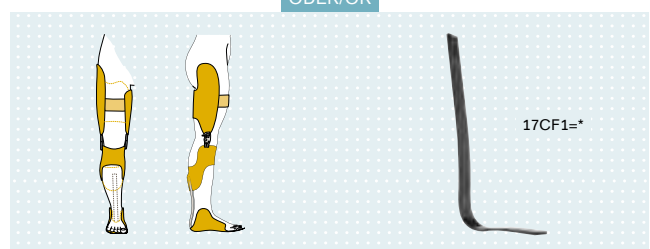
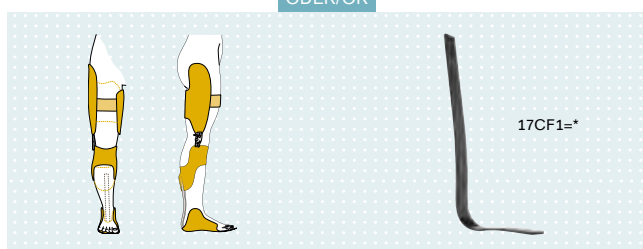
.....
  - Orthoprosthesis**

.....
-

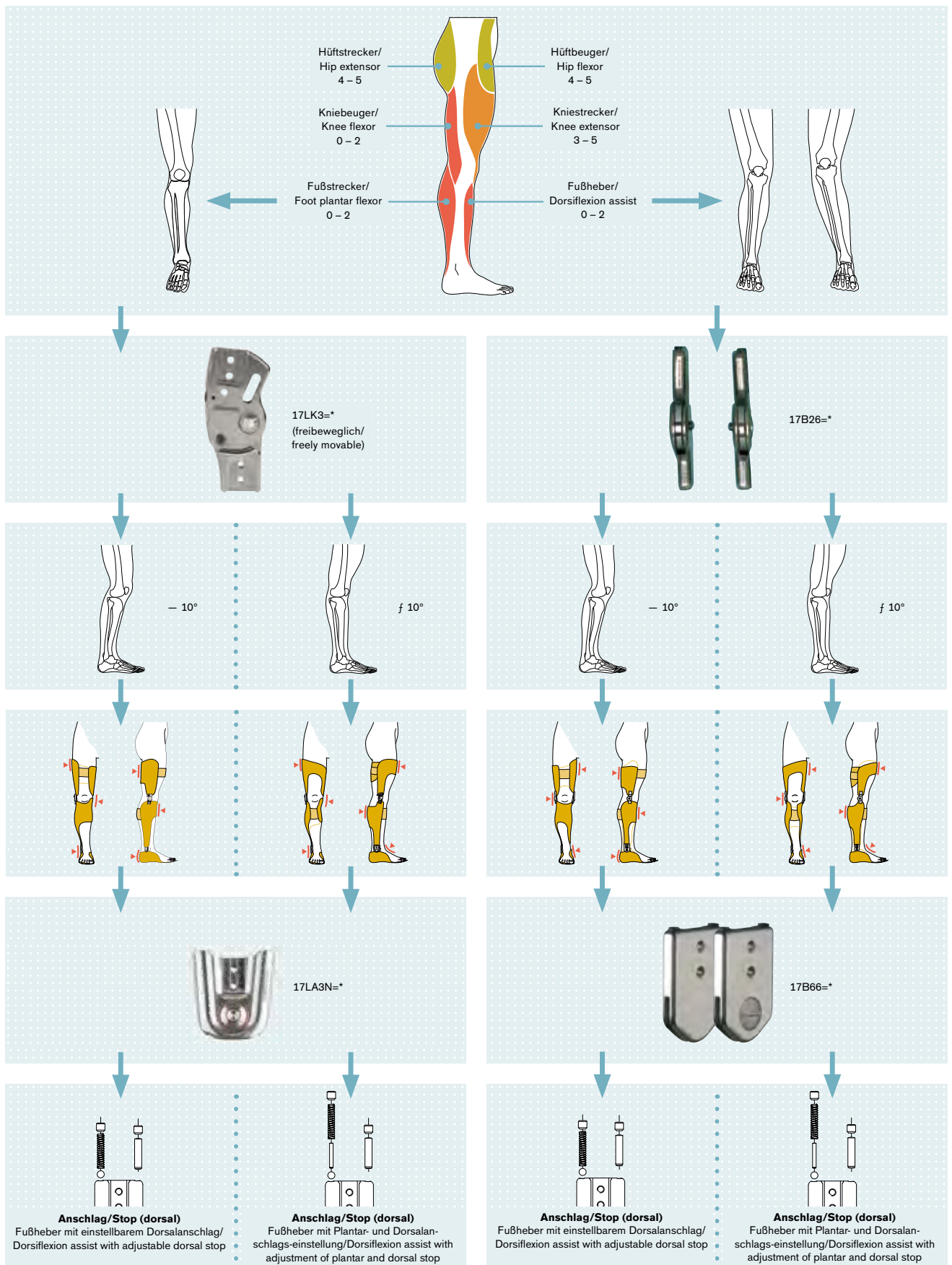


ODER/OR

ODER/OR



## Selection tool







### Knee joint bar for children

Reference number 17K32

Free motion knee joint bar

Knee joint extension stop can be adjusted by filing, flat bar profile, no posterior placement



#### Technical data

Article number	Upper/lower bar length	Bar width	Joint bar thickness	Joint head Ø	Material	Quantity unit
17K32=6	220 / 250 mm	12 mm	3 mm	16 mm	Stainless steel	Pair
17K32=5	300 / 320 mm	14 mm	3 mm	18 mm	Stainless steel	Pair
17K32=4	410 / 390 mm	16 mm	3 mm	20 mm	Stainless steel	Pair

#### Information material

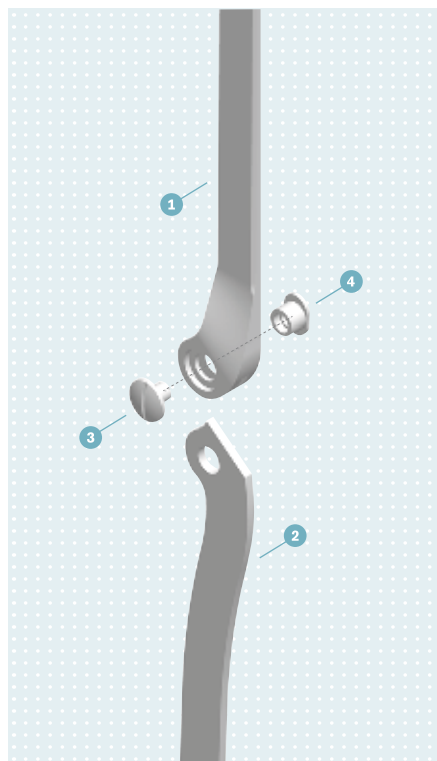
646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars



#### Practical recommendation 17K32

- On worn joints, the tolerance can be reduced with the repair bolts. A suitable reamer is usually used for adaptation.
- The following shoulder screws can be used with the 17K29/32/33/34/42 joint bars for children: 501A1=12x6xM4

## Spare parts for 17K32



## (1) Knee joint bar, upper section

Reference number 17X8

## Technical data

Article number	Spare part for	Side	Material	Quantity unit
17X8=L4	17K32=4	left (L)	Stainless steel	Piece
17X8=R4	17K32=4	right (R)	Stainless steel	Piece
17X8=L5	17K32=5	left (L)	Stainless steel	Piece
17X8=R5	17K32=5	right (R)	Stainless steel	Piece
17X8=L6	17K32=6	left (L)	Stainless steel	Piece
17X8=R6	17K32=6	right (R)	Stainless steel	Piece

## (2) Knee joint bar, lower section

Reference number 17U8

## Technical data

Article number	Spare part for	Material	Quantity unit
17U8=4	17K32=4	Stainless steel	Piece
17U8=5	17K32=5	Stainless steel	Piece
17U8=6	17K32=6	Stainless steel	Piece

## (3) Slotted truss head screw

Reference number 501S32

## Technical data

Article number	Spare part for	Head Ø	Length	Thread	For system width	Material	Quantity unit
501S32=M4X10X9.5	17K32=5 17K32=6	10 mm	9.5 mm	M4	16 mm	Stainless steel	Piece
501S32=M6X14X10	17K32=4	14 mm	10 mm	M6	20/16 mm	Stainless steel	Piece

## (4) Bearing nut, hardened

Reference number 17Y93

## Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6X6.7XM4	17K32=5 17K32=6	5.45 mm	12 mm	6.7 mm	M4	6 mm	Piece
17Y93=6.5X6.7XM4	17K32=5 17K32=6	5.45 mm	12 mm	6.7 mm	M4	6.5 mm	Piece
17Y93=9X7.2XM6	17K32=4	6 mm	14 mm	7.2 mm	M6	9 mm	Piece
17Y93=9.5X7.2XM6	17K32=4	6 mm	14 mm	7.2 mm	M6	9.5 mm	Piece



### Knee joint bar for children

Reference number 17K33

Free motion knee joint bar

Joints not filed out, joint centre 15 mm to the posterior



#### Technical data

Article number	Upper/lower bar length	Bar width	Joint bar thickness	Joint head Ø	Material	Quantity unit
17K33=6	220 / 250 mm	12 mm	3 mm	16 mm	Stainless steel	Pair
17K33=5	220 / 250 mm	14 mm	3 mm	18 mm	Stainless steel	Pair
17K33=4	220 / 250 mm	16 mm	3 mm	20 mm	Stainless steel	Pair

#### Information material

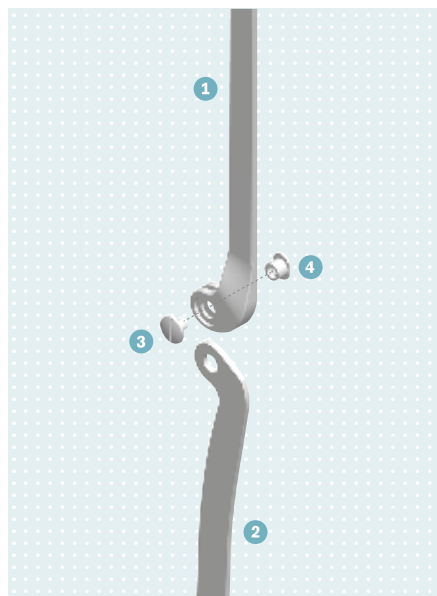
646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars



#### Practical recommendation 17K33

- On worn joints, the tolerance can be reduced with the repair bolts. A suitable reamer is usually used for adaptation.
- The following shoulder screws can be used with the 17K29/32/33/34/42 joint bars for children: 501A1=12x6xM4

## Spare parts for 17K33



## (1) Knee joint bar, upper section

Reference number 17X9

## Technical data

Article number	Spare part for	Side	Material	Quantity unit
17X9=L4	17K33=4	left (L)	Stainless steel	Piece
17X9=R4	17K33=4	right (R)	Stainless steel	Piece
17X9=L5	17K33=5	left (L)	Stainless steel	Piece
17X9=R5	17K33=5	right (R)	Stainless steel	Piece
17X9=L6	17K33=6	left (L)	Stainless steel	Piece
17X9=R6	17K33=6	right (R)	Stainless steel	Piece

## (2) Slotted truss head screw

Reference number 501S32

## Technical data

Article number	Spare part for	Head Ø	Length	Thread	Material	Quantity unit
501S32=M4X10X9.5	17K33=5 17K33=6	10 mm	9.5 mm	M4	Stainless steel	Piece
501S32=M6X14X10	17K33=4	14 mm	10 mm	M6	Stainless steel	Piece

## (3) Bearing nut, hardened

Reference number 17Y93

## Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6.5X6.7XM4	17K33=5 17K33=6	5.45 mm	12 mm	6.7 mm	M4	6.5 mm	Piece
17Y93=7X6.7XM4	17K33=5 17K33=6	5.45 mm	12 mm	6.7 mm	M4	7 mm	Piece
17Y93=9X7.2XM6	17K33=4	6 mm	14 mm	7.2 mm	M6	9 mm	Piece
17Y93=10X7.2XM6	17K33=4	6 mm	14 mm	7.2 mm	M6	10 mm	Piece

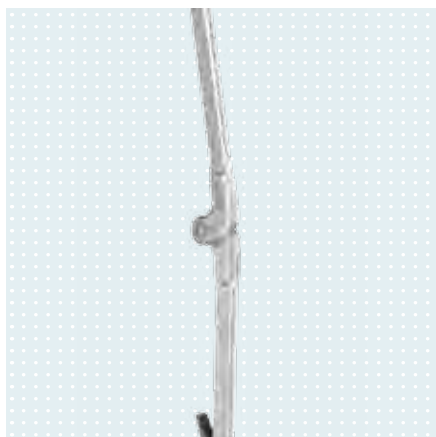
## (4) Knee joint bar, lower section

Reference number 17U9

## Technical data

Article number	Spare part for	Material	Quantity unit
17U9=5	17K33=5	Stainless steel	Piece
17U9=4	17K33=4	Stainless steel	Piece





### Free motion knee joint, posterior offset

Reference number 17KF10

Adjustable extension stop  
Posterior placement of 19 mm



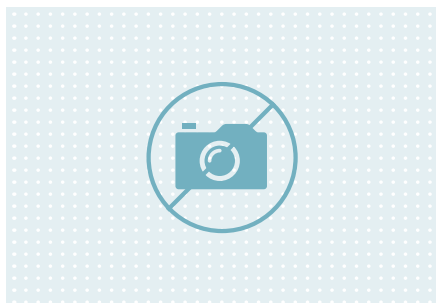
#### Technical data

Article number	Upper/lower bar length	Bar width	Joint bar thickness	Version	Material	Quantity unit
17KF10=16	390 / 570 mm	16 mm	5 mm	Straight	Stainless steel	Pair
17KF10=16-A	390 / 570 mm	16 mm	5 mm	Straight	Aluminium	Pair

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
646F596=EN_MASTER	Knee joints overview
647G221	17KF10/17KL20/17KL40 instructions for use

### Spare parts for 17KF10



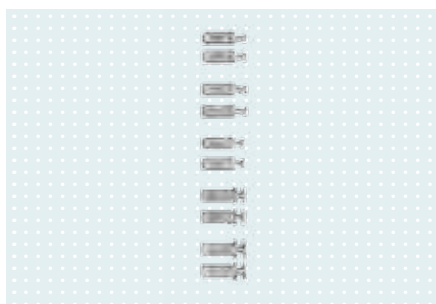
### Service set

Reference number 17KS=11

#### Technical data

Article number	Spare part for	Scope of delivery
17KS=11	17KF10=16-A 17KF10=16	Bearing nut Bushing Truss head screw with slot Red washer

### Accessory for 17KF10

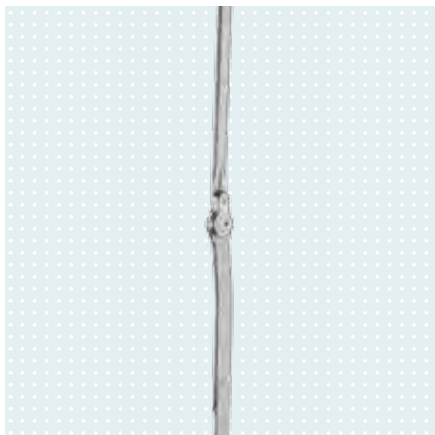


### Alignment insert set

Reference number 743Y57

#### Technical data

Article number	Accessories for
743Y57	17KF10=16 17KF10=16-A



## Free motion knee joint

Reference number 17KF1

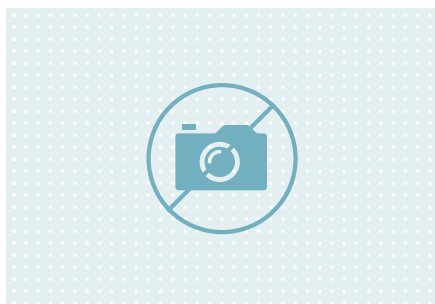
### Technical data

Article number	Upper/lower bar length	Bar width	Joint bar thickness	Bar material	Quantity unit
17KF1=13-A	300 / 560 mm	13 mm	5 mm	Aluminium	Pair
17KF1=13-CS	300 / 560 mm	13 mm	5 mm	Steel	Pair
17KF1=16-A	400 / 570 mm	16 mm	6,35 mm	Aluminium	Pair
17KF1=16-CS	400 / 570 mm	16 mm	5 mm	Steel	Pair

### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
647G1334	17KF1 instructions for use

## Spare parts for 17KF1

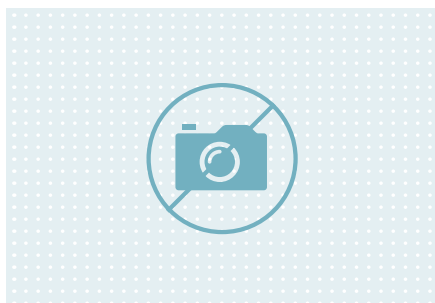


## Service set

Reference number 17KS=18

### Technical data

Article number	Spare part for	Scope of delivery
17KS=18	17KF1=13-A	Flat round disk with slot Red Washer Bearing nut Bushing Face plate



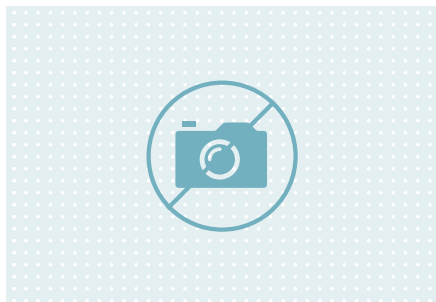
## Service set

Reference number 17KHS=3

Service set for hip and knee joints

### Technical data

Article number	Spare part for	Scope of delivery
17KHS=3	17KF1=13-CS 17KF1=15-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece



### Service set

Reference number 17KS=16

#### Technical data

Article number	Spare part for	Scope of delivery
17KS=16	17KF1=16-A	Flat round disk with slot Red washer Bearing nut Bushing Face plate



### Service set

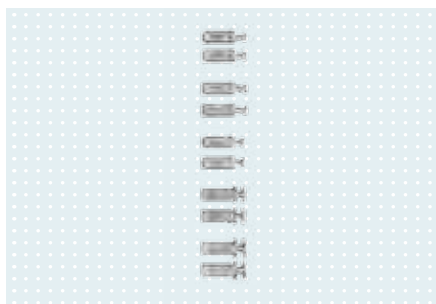
Reference number 17KHS=2

Service set for hip and knee joints

#### Technical data

Article number	Spare part for	Scope of delivery
17KHS=2	17KF1=16-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece

## Accessory for 17KF1

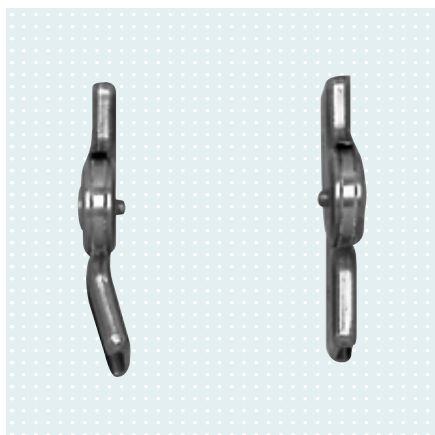


### Alignment insert set

Reference number 743Y57

#### Technical data

Article number	Accessories for
743Y57	17KF1=13-A 17KF1=13-CS 17KF1=16-A 17KF1=16-CS



### System knee joint

Reference number 17B26

Medial joint has contoured bottom and straight top, straight lateral joint, free motion, with ball bearing, joint centre shifted 16 mm in posterior direction



#### Technical data

Article number	Side	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B26=L16	left (L)	16 mm	33 mm	38 mm	Stainless steel	Pair
17B26=R16	right (R)	16 mm	33 mm	38 mm	Stainless steel	Pair
17B26=L20	left (L)	20 mm	33 mm	38 mm	Stainless steel	Pair
17B26=R20	right (R)	20 mm	33 mm	38 mm	Stainless steel	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
646F464=ALL_INT	KAFO selection guide
647G2	Instructions for use – system/leg bars



### System knee joint

Reference number 17B47

Medial and lateral joint are straight, free motion, with ball bearing, joint centre shifted 16 mm in posterior direction



#### Technical data

Article number	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B47=16	16 mm	33 mm	38 mm	Stainless steel	Pair
17B47=20	20 mm	33 mm	38 mm	Stainless steel	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars

# KAFO/KO

## Free-motion knee joints – System joints



### System knee joint

Reference number 17B3

Medial joint has contoured bottom and straight top, straight lateral joint, free motion, with ball bearing, joint centre shifted 22 mm in posterior direction



#### Technical data

Article number	Side	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B3=L16	left (L)	16 mm	33 mm	38 mm	Stainless steel	Pair
17B3=R16	right (R)	16 mm	33 mm	38 mm	Stainless steel	Pair
17B3=L20	left (L)	20 mm	33 mm	38 mm	Stainless steel	Pair
17B3=R20	right (R)	20 mm	33 mm	38 mm	Stainless steel	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
	Instructions for use – system/leg bars



### System knee joint

Reference number 17B43

Medial and lateral joint are straight, free motion, with ball bearing, joint centre shifted 22 mm in posterior direction



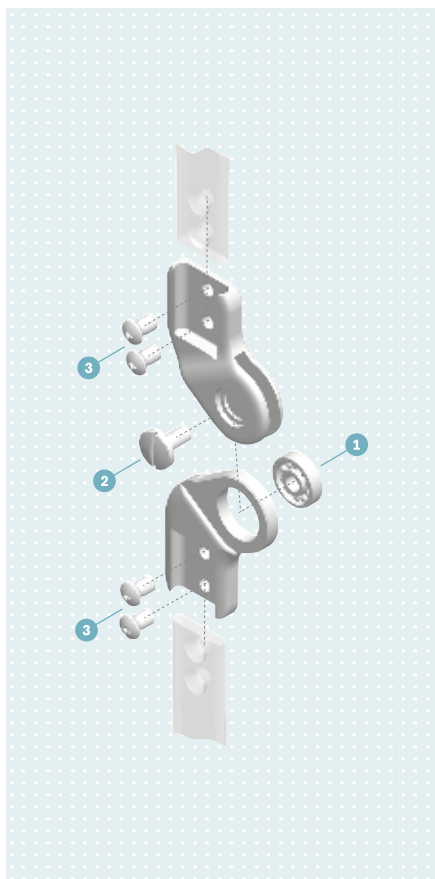
#### Technical data

Article number	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B43=16	16 mm	33 mm	38 mm	Stainless steel	Pair
17B43=20	20 mm	33 mm	38 mm	Stainless steel	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars

## Spare parts for 17B26, 17B47, 17B3, 17B43

**(1) Ball bearing**

Reference number 509K11

**Technical data**

Article number	Quantity unit
509K11=5X16X4	Piece

**(2) Oval head screw, slotted and partially threaded**

Reference number 501A6

**Technical data**

Article number	Material	Quantity unit
501A6=4X5XM5	Stainless steel	Piece

**(3) Phillips oval countersunk head screw**

Reference number 501T7

**Technical data**

Article number	Head Ø	Length	Material	Quantity unit
501T7=7.5X9XM5	7.5 mm	9 mm	Stainless steel	Piece

## Accessory for 17B26, 17B47, 17B3, 17B43

**System lamination bar**

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

**Technical data**

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece

- ⚠ Caution! The system lamination bars always have to be used in pairs in the leg orthosis. Unilateral use can cause the lamination bar to break due to overloading.



### System lamination bar with contoured calf

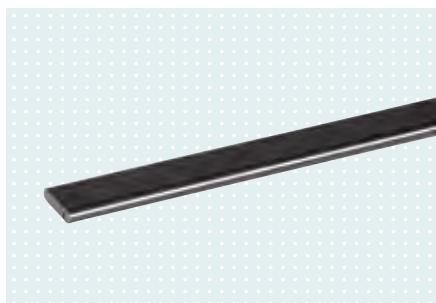
Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece

- ⚠ Caution! The system lamination bars always have to be used in pairs in the leg orthosis. Unilateral use can cause the lamination bar to break due to overloading.



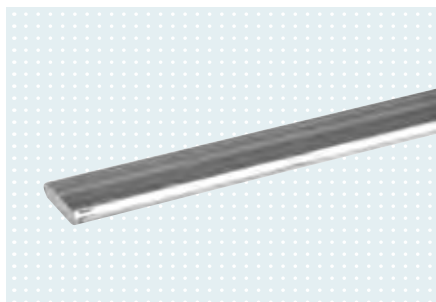
### Stainless steel profile rod

Reference number 651P4

Suitable for fabricating system bars, with rounded edges, strength of approx. 800–950 N/mm<sup>2</sup>, spot weldable

#### Technical data

Article number	Length	Width	Thickness	Quantity unit
651P4=16	2,000 mm	16 mm	4 mm	
651P4=20	2,000 mm	20 mm	4 mm	



### Light metal profile bar

Reference number 605P8

Suitable for fabricating system splints, with rounded edges, strength approx. 400 N/mm<sup>2</sup>

#### Technical data

Article number	For system width	Length	Width	Thickness
605P8=16	16 mm	2,000 mm	16 mm	5 mm
605P8=20	20 mm	2,000 mm	20 mm	5 mm



### System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



## System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



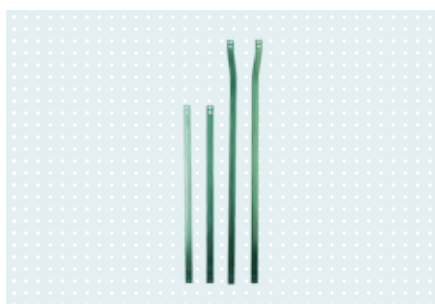
## System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



## System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



## System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set





### System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



### System extension assist

Reference number 17Y32

with two rubber rings

#### Technical data

Article number	Quantity unit
17Y32	Piece



### System extension assist

Reference number 17Y35

with two rubber rings

#### Technical data

Article number	Quantity unit
17Y35	Piece

## Spare parts for 17Y32, 17Y35



### Rubber ring

Reference number 18Z1

Service parts for 17Y32 and 17Y35

#### Technical data

Article number	Outside Ø	Inner Ø
18Z1=20.8X14.5	20,8 mm	14,5 mm
18Z1=24.6X18.3	24,6 mm	18,3 mm



## Rubber ring

Reference number 18Z2

Service parts for 17Y32 and 17Y35

### Technical data

Article number	Outside Ø	Inner Ø
18Z2=26.8X17.7	26,8 mm	17,7 mm
18Z2=21X12.9	21 mm	12,9 mm

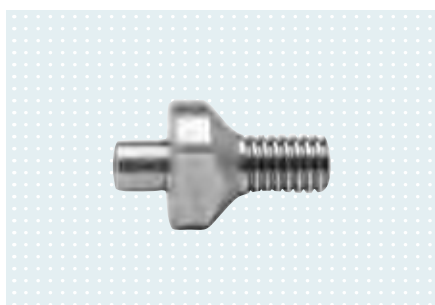


## Flat head screw

Reference number 501S43

### Technical data

Article number
501S43=M3X4



## Special screw

Reference number 501S79

To attach the extension assist

### Technical data

Article number
501S79=M5X4.1X16.1
501S79=M5X5.1X17.1



## Serrated lock washer

Reference number 507S11

### Technical data

Article number
507S11=5.3



### System knee joint

Reference number 17B46

Polycentric system knee joint  
Contoured medial joint, straight lateral joint, double joints with gear drive and ball bearings



#### Technical data

Article number	System width	Length from joint centre upper	Length from joint centre lower	Pivot point distance	Material	Quantity unit
17B46=16	16 mm	38 mm	38 mm	18 mm	Stainless steel	Pair
17B46=20	20 mm	38 mm	38 mm	18 mm	Stainless steel	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars



### System knee joint

Reference number 17B71

Polycentric system knee joint  
Straight medial and lateral joints, polycentric with gear drive and ball bearings



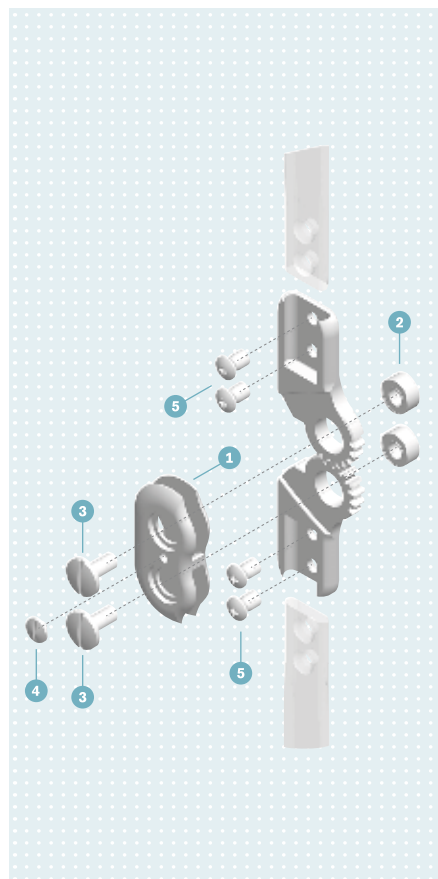
#### Technical data

Article number	System width	Length from joint centre upper	Length from joint centre lower	Pivot point distance	Material	Quantity unit
17B71=16	16 mm	38 mm	38 mm	18 mm	Stainless steel	Pair
17B71=20	20 mm	38 mm	38 mm	18 mm	Stainless steel	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars

## Spare parts for 17B46, 17B71

**(1) Medial joint piece**

Reference number 7Y19

**Technical data**

Article number	Quantity unit
7Y19	Piece

**(2) Ball bearing**

Reference number 509K12

**Technical data**

Article number	Quantity unit
509K12	Piece

**(3) Oval head screw, slotted and partially threaded**

Reference number 501A6

**Technical data**

Article number	Material	Quantity unit
501A6=5X5XM5	Stainless steel	Piece

**(4) Slotted oval head screw (lock screw)**

Reference number 501S22

**Technical data**

Article number	Material	Quantity unit
501S22=8XM3.5	Stainless steel	Piece

**(5) Phillips oval countersunk head screw**

Reference number 501T7

**Technical data**

Article number	Head Ø	Length	Material	Quantity unit
501T7=7.5X9XM5	7.5 mm	9 mm	Stainless steel	Piece

### Accessory for 17B71, 17B71



### System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece

- ⚠ Caution! The system lamination bars always have to be used in pairs in the leg orthosis. Unilateral use can cause the lamination bar to break due to overloading.



### System lamination bar with contoured calf

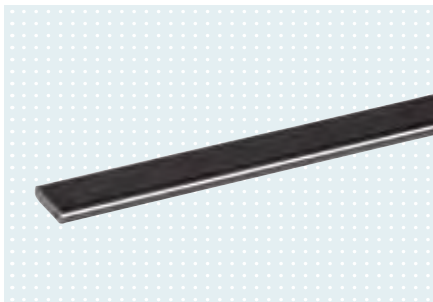
Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece

- ⚠ Caution! The system lamination bars always have to be used in pairs in the leg orthosis. Unilateral use can cause the lamination bar to break due to overloading.



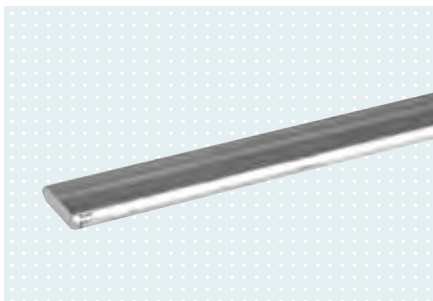
### Stainless steel profile rod

Reference number 651P4

Suitable for fabricating system bars, with rounded edges, strength of approx. 800–950 N/mm<sup>2</sup>, spot weldable

#### Technical data

Article number	Length	Width	Thickness
651P4=16	2,000 mm	16 mm	4 mm
651P4=20	2,000 mm	20 mm	4 mm



### Light metal profile bar

Reference number 605P8

Suitable for fabricating system splints, with rounded edges, strength approx. 400 N/mm<sup>2</sup>

#### Technical data

Article number	For system width	Length	Width	Thickness
605P8=16	16 mm	2,000 mm	16 mm	5 mm
605P8=20	20 mm	2,000 mm	20 mm	5 mm



## System side bar set

Reference number 17B38

flat, consisting of two 17B4 and 17B4=T upper side bars and one each, left and right, 17B5 and 17B5=T lower side bars, with 636W28 Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



## System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



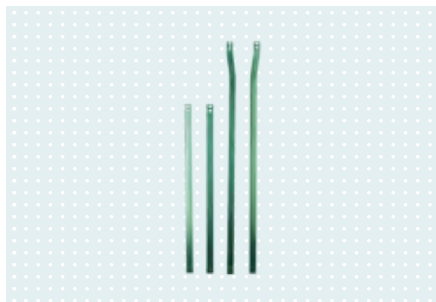
## System side Bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



### System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



### System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



### System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

#### Technical data

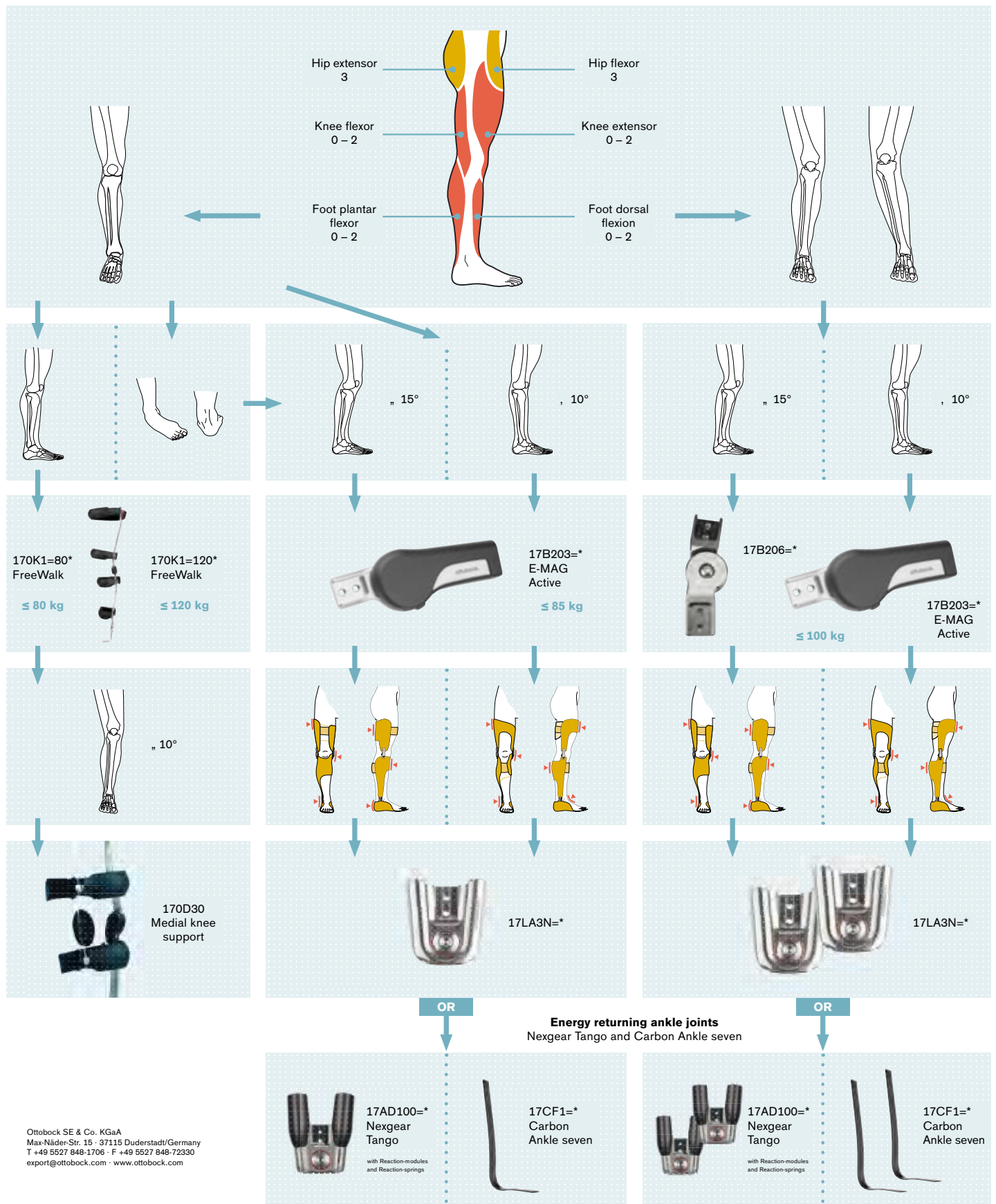
Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set





# KAFO/KO

## “SCO” – Stance Control Orthoses – SCO selection tool



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## FreeWalk orthotic system

Reference number 170K1

The FreeWalk permits a virtually natural gait as well as more safety and stability for patients with complete or partial paralysis of one leg.

The FreeWalk orthosis is pre-fabricated for the first fitting according to your specifications. The tool kit and datasheets are required to record the measurements needed for the fabrication of the orthosis.

### Technical data

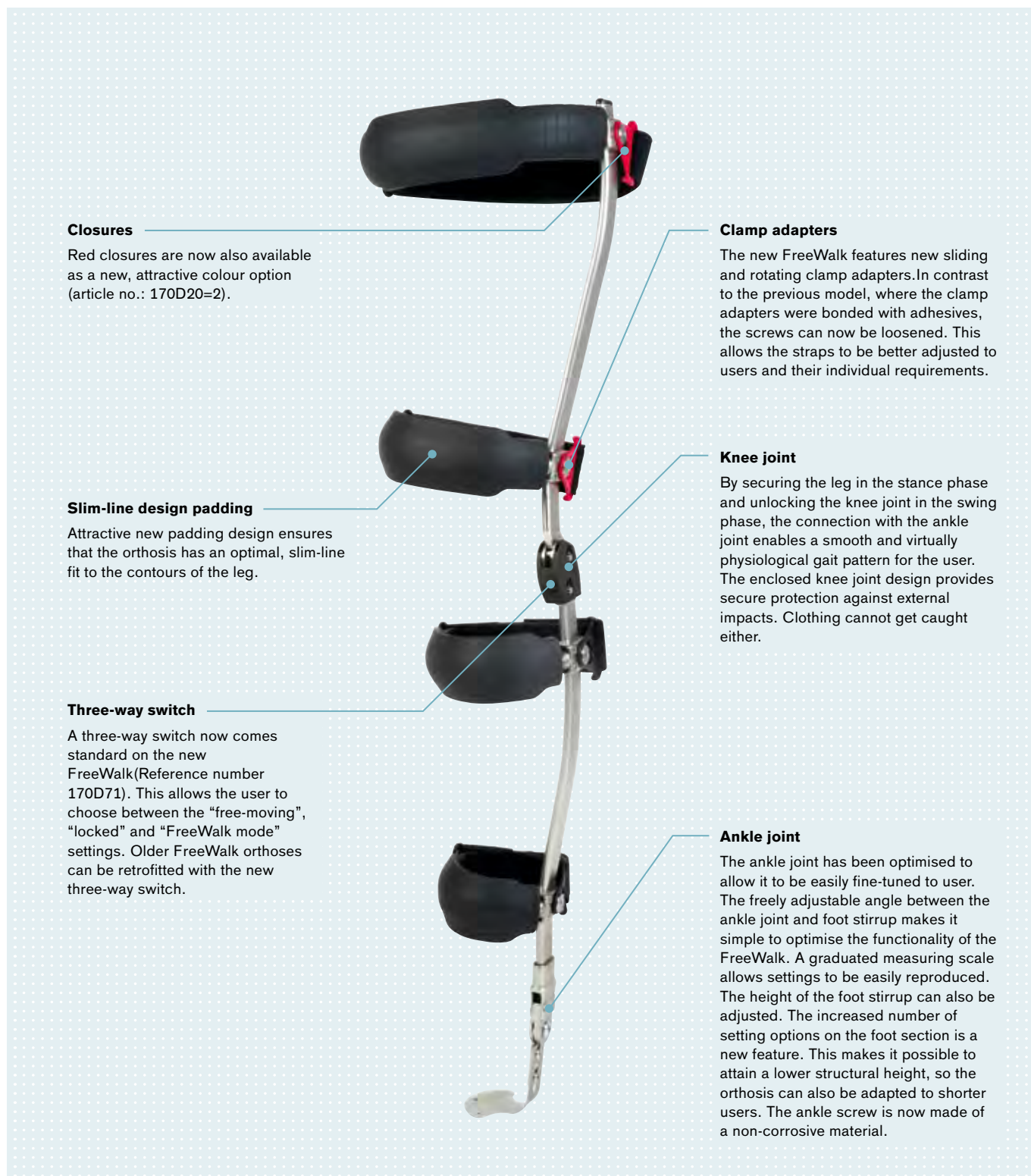
Article number	Side	for patient weight up to	Colour
170K1=L-80-0	left	80 kg	Skin colour
170K1=R-80-0	right	80 kg	Skin colour
170K1=L-80-7	left	80 kg	Black
170K1=R-80-7	right	80 kg	Black
170K1=L-120-0	left	120 kg	Skin colour
170K1=R-120-0	right	120 kg	Skin colour
170K1=R-120-7	right	120 kg	Black
170K1=L-120-7	left	120 kg	Black

- On request, you can order a test orthosis on loan in order to carry out a functional test with your patient. Please contact your customer service representative or regional contact person regarding this!
- Please note that the insole must also be sent to us.
- Delivery condition: as shown, but without foot part
- With height-adjustable pad retainers

### Information material

646D1391=EN_INT	SCO information for practitioners
646A214=EN_INT	SCO therapy information
646H11=EN_INT	FreeWalk user flyer
646H23=EN_INT	FreeWalk user information
646F371=ALL_INT	SCO selection guide
646F464=ALL_INT	KAFO selection guide
646F596=EN_MASTER	Knee joints overview
647H351	FreeWalk instructions for use (practitioners)
647G1174	FreeWalk instructions for use (users)
647G1175	170D71 instructions for use

### Secure stance phase – light and inconspicuous



## Accessory for 170K1



## Medial knee guide

Reference number 170D30

Guiding the knee in the medial direction allows treatment for 5° more valgus deformity.

## Technical data

Article number	for patient weight up to	Colour	Quantity unit
170D30=120-7	120 kg	Black	Set
170D30=80-7	80 kg	Black	Set



## Tool case

Reference number 170W2

## Technical data

Article number	for	Quantity unit
170W2	Measuring and fine-tuning the FreeWalk orthosis	Piece



## Calibration set

Reference number 170W23

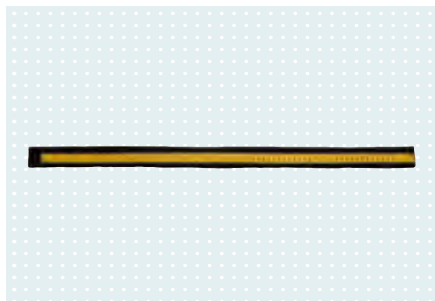
The calibration set makes it possible to order the FreeWalk orthosis using a photo

## Technical data

Article number
170W23

## Scope of delivery

170W22	Calibration part	1	Piece
170W4	Tension band	1	Piece
623Z20	Velcro Fasteners	1	set



## Tension band

Reference number 170W4

## Technical data

Article number
170W4



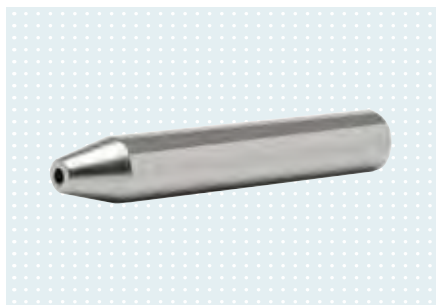
## Measuring tape

Reference number 743B4

The Ottobock measuring tape is a double-sided measuring tape with a spring balance and cm/cm graduation.

### Technical data

Article number	Length
743B4	1,500 mm



## Mounting aid

Reference number 170W14

### Technical data

Article number
170W14

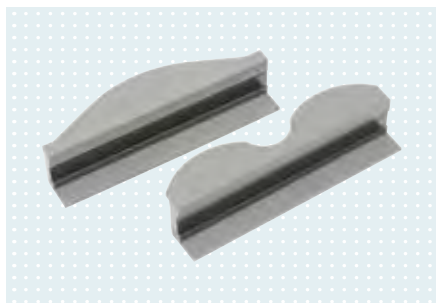


## Pad retainer bending tool

Reference number 170W12

### Technical data

Article number
170W12=1
170W12=2

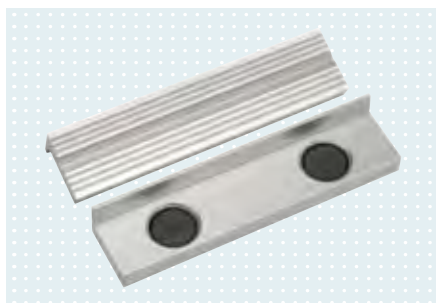


## Frontal contour bending tool

Reference number 170W11

### Technical data

Article number
170W11

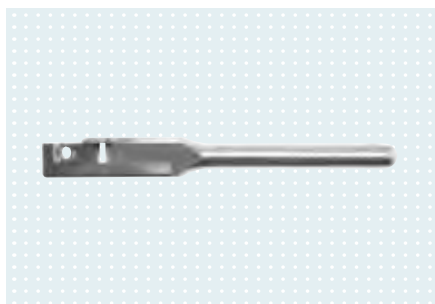


## Aluminium threaded jaws

Reference number 170W13

### Technical data

Article number
170W13



## Bending irons

Reference number 170W18

### Technical data

#### Article number

170W18



## Callipers

Reference number 170W19

### Technical data

#### Article number

170W19

## Spare parts for 170K1

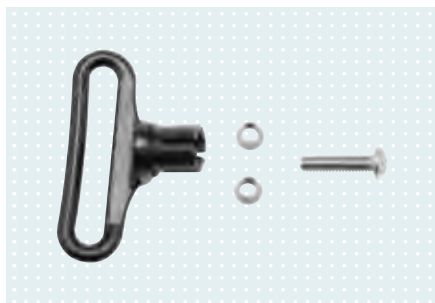


## Pad button

Reference number 170D69

### Technical data

Article number	Spare part for	Thread	Quantity unit
170D69	170K1=L-80-0 170K1=L-80-7 170K1=L-120-0 170K1=L-120-7 170K1=R-80-0 170K1=R-80-7 170K1=R-120-0 170K1=R-120-7	4	Piece



## Strap guide loop with tube connection

Reference number 170D18

### Technical data

Article number	Spare part for	Colour	Quantity unit
170D18=120-7	170K1=L-120-7 170K1=R-120-7	Black	Piece
170D18=80-7	170K1=L-80-7 170K1=R-80-7	Black	Piece
170D18=80-0	170K1=L-80-0 170K1=R-80-0	Skin colour	Piece
170D18=120-0	170K1=R-120-0 170K1=L-120-0	Skin colour	Piece



### Strap guide loop for pad button

Reference number 170D20

The strap guide loop is used with the 170D17 pad button and prevents the loops from twisting.

#### Technical data

Article number	Spare part for	Colour	Order unit
170D20=0	170K1=L-80-0 170K1=L-120-0 170K1=R-80-0 170K1=R-120-0	Skin colour	Piece
170D20=7	170K1=L-80-7 170K1=L-120-7 170K1=R-80-7 170K1=R-120-7	Black	Piece



### Y-hook-and-loop with PU coating

Reference number 170D29

#### Technical data

Article number	Spare part for	Width	Colour	Quantity unit
170D29=38-0	170K1=L-80-0 170K1=L-120-0 170K1=R-80-0 170K1=R-120-0	38 mm	Skin colour	Piece
170D29=38-7	170K1=L-80-7 170K1=L-120-7 170K1=R-80-7 170K1=R-120-7	38 mm	Black	Piece



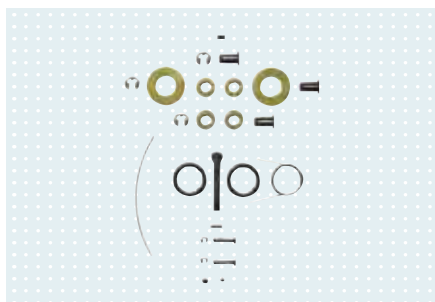
### Foam pads

Reference number 170D100

#### Technical data

Article number	Spare part for	Length	Colour	Quantity unit
170D100=1-0	170K1=L-80-0 170K1=L-120-0 170K1=R-80-0 170K1=R-120-0	large	Skin colour	Piece
170D100=2-0	170K1=L-80-0 170K1=L-120-0 170K1=R-80-0 170K1=R-120-0	Small	Skin colour	Piece
170D100=1-7	170K1=L-80-7 170K1=L-120-7 170K1=R-80-7 170K1=R-120-7	large	Black	Piece
170D100=2-7	170K1=L-80-7 170K1=L-120-7 170K1=R-80-7 170K1=R-120-7	Small	Black	Piece





## Maintenance set for FreeWalk

Reference number 170X18

### Technical data

Article number	Spare part for	Quantity unit
170X18	170K1=L-80-0 170K1=L-80-7 170K1=L-120-0 170K1=L-120-7 170K1=R-80-0 170K1=R-80-7 170K1=R-120-0 170K1=R-120-7	Set

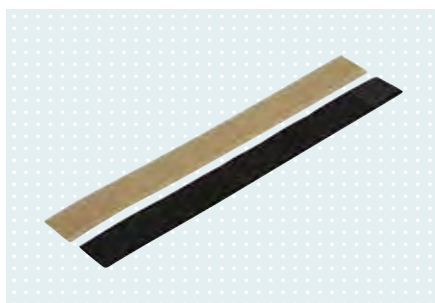


## Joint protector

Reference number 170Z120

### Technical data

Article number	Spare part for	Colour	Quantity unit
170Z120=0	170K1=L-80-0 170K1=L-120-0 170K1=L-120-7 170K1=R-80-0 170K1=R-120-0 170K1=R-120-7	Skin colour	Set
170Z120=7	170K1=L-80-7 170K1=R-80-7	Black	Set



## Hook-and-loop strap

Reference number 170Z4

### Technical data

Article number	Spare part for	Length	Width	Colour	Order unit
170Z4=400-0	170K1=L-80-0 170K1=L-120-0 170K1=R-80-0 170K1=R-120-0	400 mm	40 mm	Skin colour	Piece
170Z4=400-7	170K1=L-80-7 170K1=L-120-7 170K1=R-80-7 170K1=R-120-7	400 mm	40 mm	Black	Piece
170Z4=600-0	170K1=L-80-0 170K1=L-120-0 170K1=R-80-0 170K1=R-120-0	600 mm	40 mm	Skin colour	Piece
170Z4=600-7	170K1=L-80-7 170K1=L-120-7 170K1=R-80-7 170K1=R-120-7	600 mm	40 mm	Black	Piece





### Maintenance set for lock

Reference number 170Z99

Maintenance set for FreeWalk lock

#### Technical data

Article number	Spare part for	Quantity unit
170Z99=2	170K1=L-80-0 170K1=L-80-7 170K1=L-120-0 170K1=L-120-7 170K1=R-80-0 170K1=R-80-7 170K1=R-120-0 170K1=R-120-7	Set



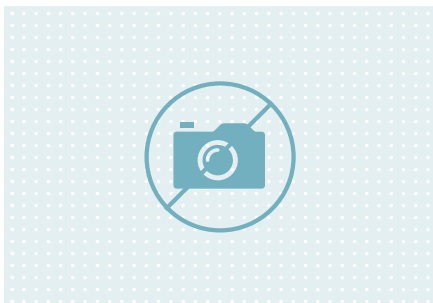
### Triple control

Reference number 170D71

For switching the knee joint between the locked, free-moving and stance phase control functions.

#### Technical data

Article number	Spare part for	for patient weight up to	Colour	Quantity unit
170D71=0	170K1=L-80-0 170K1=L-120-0 170K1=R-80-0 170K1=R-120-0	80/ 120 kg	Skin colour	Piece
170D71=7	170K1=L-80-7 170K1=L-120-7 170K1=R-80-7 170K1=R-120-7	80/ 120 kg	Black	Piece

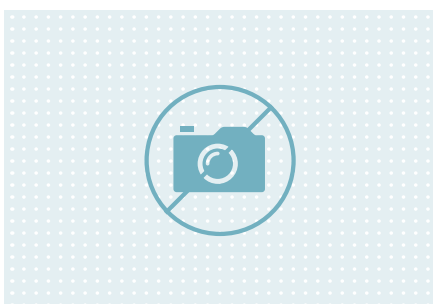


### Cap screw, glass bead blasted

Reference number 170D83

#### Technical data

Article number	Spare part for
170D83=M4X12-TX20	170K1=L-80-0 170K1=L-80-7 170K1=L-120-0 170K1=L-120-7 170K1=R-80-0 170K1=R-80-7 170K1=R-120-0 170K1=R-120-7



### Screw with flattened half-round head

Reference number 501F9

#### Technical data

Article number	Spare part for	Quantity unit
501F9=M6X10-1	170K1=L-80-0 170K1=L-80-7 170K1=L-120-0 170K1=L-120-7 170K1=R-80-0 170K1=R-80-7 170K1=R-120-0 170K1=R-120-7	Piece



## Wedge

Reference number 170D73

### Technical data

Article number	Spare part for
170D73=120	170K1=L-80-0 170K1=L-80-7 170K1=L-120-0 170K1=L-120-7 170K1=R-80-0 170K1=R-80-7 170K1=R-120-0 170K1=R-120-7



## Steel cable for lock

Reference number 170Z96

### Technical data

Article number	Spare part for
170Z96	170K1=L-80-0 170K1=L-80-7 170K1=L-120-0 170K1=L-120-7 170K1=R-80-0 170K1=R-80-7 170K1=R-120-0 170K1=R-120-7



## Adjustable ankle joint

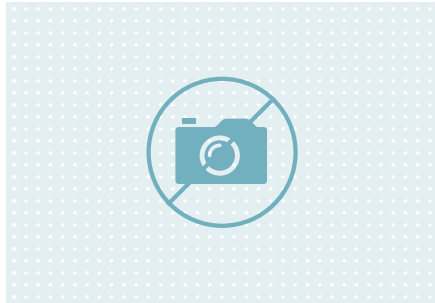
Reference number 170X17N

Ankle joint for the FreeWalk orthosis

### Technical data

Article number	Spare part for
170X17N=L	170K1=L-80-0 170K1=L-80-7 170K1=L-120-0 170K1=L-120-7
170X17N=R	170K1=R-80-0 170K1=R-80-7 170K1=R-120-0 170K1=R-120-7

## Spare parts for 170X17N

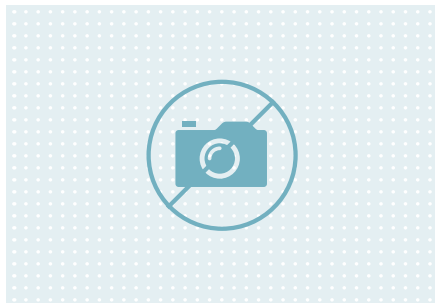


### Ankle joint, lower section

Reference number 170C11

#### Technical data

Article number	Side	Quantity unit
170C11=L	left (L)	Piece
170C11=R	right (R)	Piece



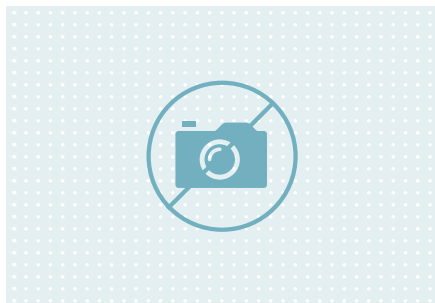
### Ankle setting nut

Reference number 170D33

#### Technical data

##### Article number

170D33



### Threaded plate

Reference number 170D28

Threaded plate for 170X17 adjustable orthotic ankle joint

#### Technical data

Article number	Quantity unit
170D28	Piece



### Foot stirrup, upper section

Reference number 170F14

#### Technical data

##### Article number

170F14



## Screw with flattened half-round head

Reference number 501F9

### Technical data

Article number	Spare part for	Quantity unit
501F9=M6X10-1	170X17N=L 170X17N=R	Piece



## Foot stirrup, lower section

Reference number 170F15

### Technical data

Article number
170F15



## Screw with flattened half-round head

Reference number 501F9

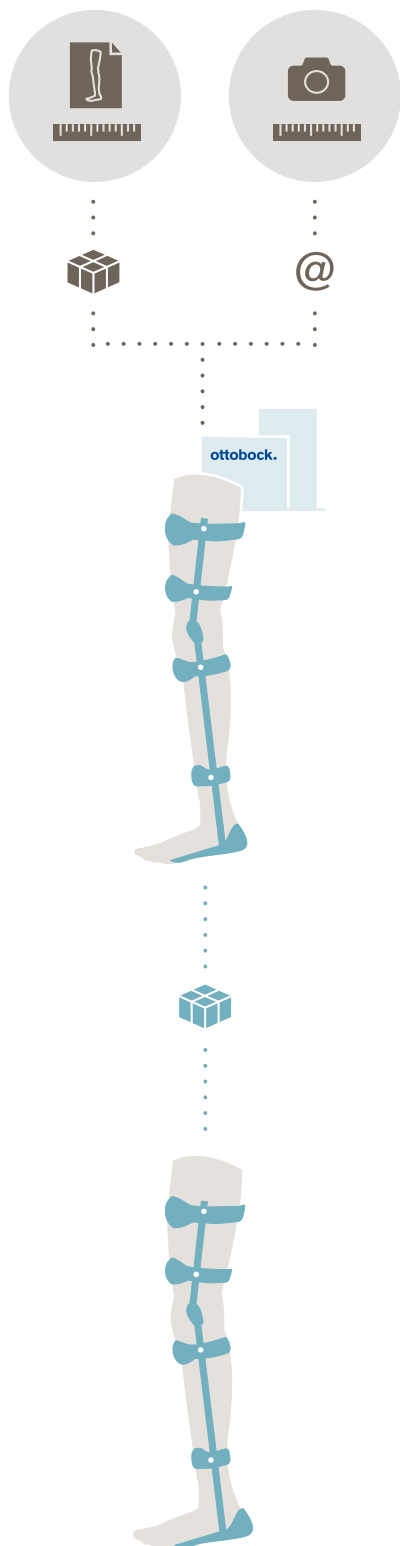
### Technical data

Article number	Spare part for	Quantity unit
501F9=M4X4	170X17N=L 170X17N=R	Piece

# KAFO/KO

“SCO” – Stance Control Orthoses – FreeWalk orthotic system ordering process

## Information on the ordering process



### Step 1

Take the patient's measurements (note the 646T5=4 technical information). Please also complete the forms (patient data and measurement form, measurement forms for the outline sketch) included in the 170W2 Free Walk orthosis tool kit (may be obtained on loan for initial fittings).

#### Ordering option a:

- Send a conventional outline drawing of the patient's leg via regular mail.

#### Ordering option b:

- Use the newly developed photo measurement process that allows you to conveniently order the orthosis via email. Here, Ottobock Service Fabrication receives your order immediately, which means it can be processed faster. You will need the 170W23 calibration set and the predefined photos to use the photo measurement process.

Please submit all documentation to Ottobock Service Fabrication via email or regular mail.

### Step 2

Please submit all forms to Ottobock Service Fabrication. Ottobock Service Fabrication will fabricate a Free Walk orthosis for you, and usually ships it after 5 working days.

### Step 3

You receive a Free Walk orthosis with an exact fit, supporting a harmonious gait pattern and secure stance.



## E-MAG Active

Reference number 17B203

### Functionality

The E-MAG Active is an electronically controlled system knee joint with secured stance phase and free swing phase that works independently from the ankle joint and foot sole. An intelligent sensor system measures the leg position while walking and controls the orthotic joint accordingly. Since the joint is activated independently of the ankle and sole of the foot, patients can take advantage of the functionality offered by the orthotic joint even if they do not have use of the ankle.

The PreLock function further improves safety. It is activated at just 15°, before the knee joint locks at full extension.

### Delivery condition

The E-Mag Active is supplied in a case. This contains the entire, coordinated system according to the scope of delivery.



### Technical data

Article number	Side	Flexion angle
17B203=L	left (L)	5 °
17B203=R	right (R)	5 °
17B203=L-7.5	left (L)	7.5 °
17B203=R-7.5	right (R)	7.5 °

- ⚠ Caution! Please always indicate the serial number of the entire E-MAG Active package when ordering spare parts, especially when ordering electronic components.
- 📖 Certification of competence is recommended for the E-MAG Active and can be obtained using an e-learning tool.

### **i** Practical recommendation 17B203

Using the 17B206 medial support increases the maximum allowable body weight to 100 kg.

### Information material

646D1391=EN_INT	SCO information for practitioners
646A214=EN_INT	SCO therapy information
646H10=EN_INT	E-MAG Active user flyer
647F588=EN_INT	E-MAG Active order form
646F371=ALL_INT	SCO selection guide
646F464=ALL_INT	KAFO selection guide
646F596=EN_MASTER	Knee joints overview
646D580=EN	Special print – SCO clinical studies
646H17=ALL_INT	E-MAG Active quick start guide for users
647G1164	E-MAG Active instructions for use (users)
647G1165=ALL_INT	E-MAG Active instructions for use (technicians)

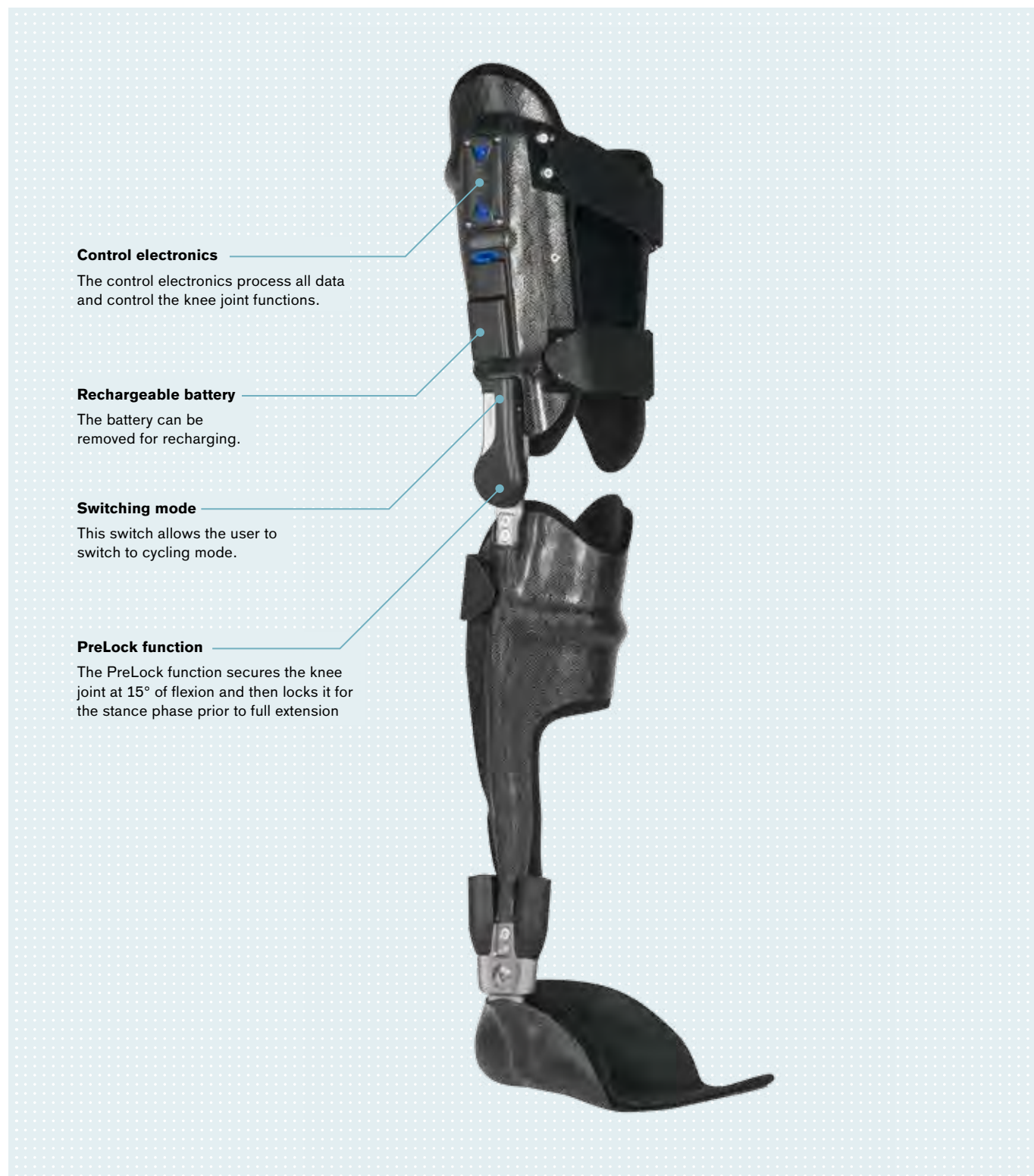
### Scope of delivery

30G70	E-MAG Active knee joint	1	Piece
317B3	Control electronics	1	Piece
317L20	Battery charger	1	Piece
317B20	Replaceable battery	2	Piece
317E20	Connecting cable	1	Piece
317R20	Lock unit for battery	1	Piece
30Y140	Cable dummy	1	Piece
21A45	Perlon cable	1	Piece
317X203	Dummy for knee joint	1	Piece
317Z21	Receptacle set	1	Piece
317Z13	Receptacle set (electronics)	1	Piece
317E2	Electronics cable	1	Piece
30G72	E-MAG case with inlays	1	Piece
646H17	E-MAG Active quick start guide for users		
647G1165	E-MAG Active instructions for use (technicians)	1	Piece
647G1164	E-MAG Active instructions for use (users)	1	Piece

# KAFO/KO

“SCO” – Stance Control Orthoses

## Greater mobility in everyday life



## Spare parts for 17B203



## Dummy for knee joint

Reference number 317X203

### Technical data

Article number	Spare part for
317X203=L	17B203=L
317X203=R	17B203=R
317X203=L-7.5	17B203=L-7.5
317X203=R-7.5	17B203=R-7.5



## Lock unit for battery

Reference number 317R20

Lock unit for E-MAG Active battery

### Technical data

Article number	Spare part for
317R20	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5



## Connecting cable

Reference number 317E20

Connecting cable for battery

### Technical data

Article number	Spare part for	Quantity unit
317E20	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5	Piece



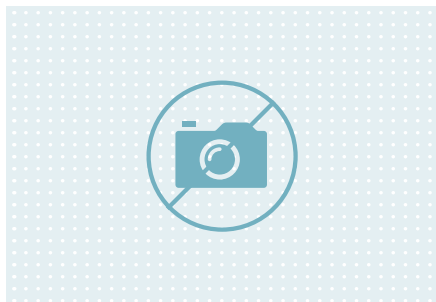
## Replaceable battery

Reference number 317B20

### Technical data

Article number	Spare part for	Quantity unit
317B20	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5	Piece





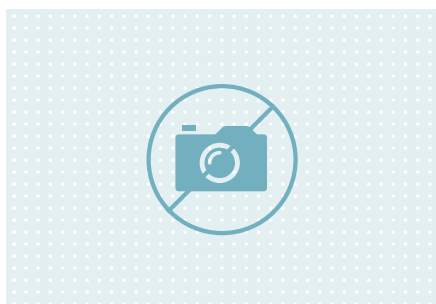
### Control electronics

Reference number 317B3

Control electronics unit for the E-MAG Active

#### Technical data

Article number	Spare part for
317B3	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5

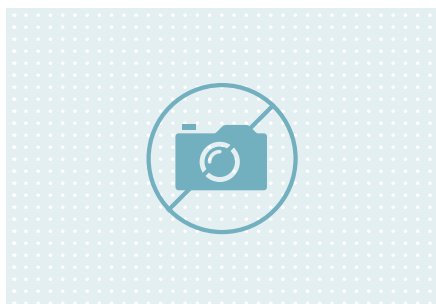


### E-MAG Active knee joint

Reference number 30G70

#### Technical data

Article number	Spare part for
30G70=L	17B203=L
30G70=R	17B203=R
30G70=L-7.5	17B203=L-7.5
30G70=R-7.5	17B203=R-7.5



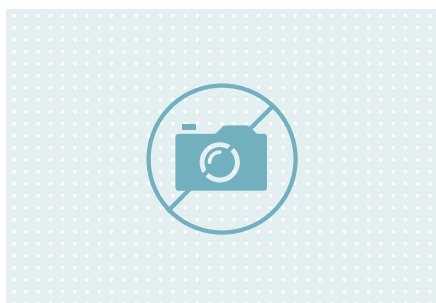
### Battery charger

Reference number 317L20

Charger for E-MAG Active

#### Technical data

Article number	Spare part for	Quantity unit
317L20	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5	Piece



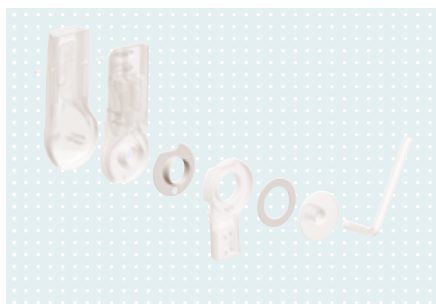
### Electronics cable

Reference number 317E2

Electronics cable for E-MAG Active

#### Technical data

Article number	Spare part for	Quantity unit
317E2	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5	Piece



## Service set

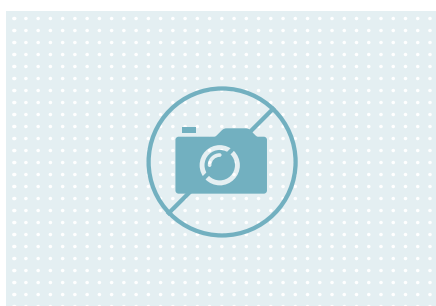
Reference number 17BS203

Service set for the E-MAG Active orthotic knee joint (17B203)

Service set for maintenance of the joint bearing

### Technical data

Article number	Spare part for	Quantity unit
17BS203	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5	Piece



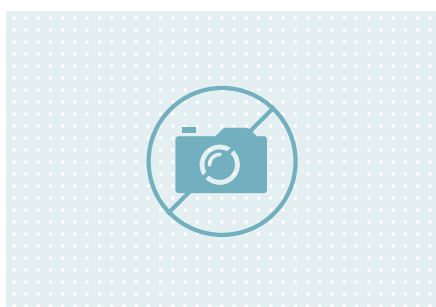
## Drive ring

Reference number 30Y438

Drive ring for the E-MAG Active

### Technical data

Article number	Spare part for
30Y438	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5



## Cable dummy

Reference number 30Y140

Cable dummy for the E-MAG Active

### Technical data

Article number	Spare part for
30Y140	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5



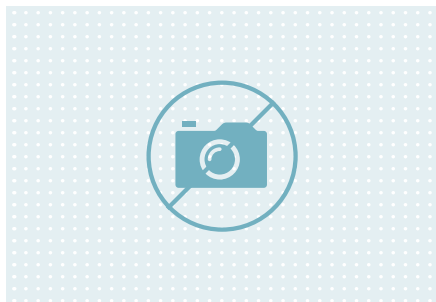
## Receptacle set (electronics)

Reference number 317Z13

Receptacle set (electronics), consisting of: electronics receptacle, dummy for receptacle, dummy for electronics

### Technical data

Article number	Spare part for
30Y438	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5



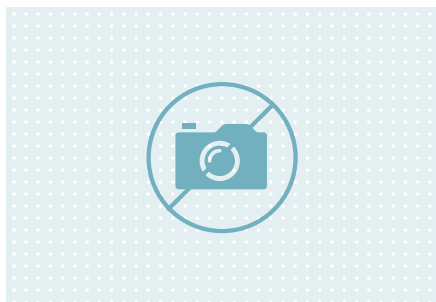
### Receptacle set

Reference number 317Z21

Receptacle set, consisting of battery receptacle, dummy for receptacle, dummy for battery

#### Technical data

Article number	Spare part for	Thread
501S21=M2X5	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5	M2

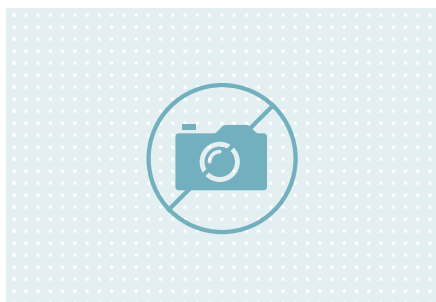


### Countersunk screw

Reference number 501S21

#### Technical data

Article number	Spare part for	Thread
501S21=M2X5	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5	M2

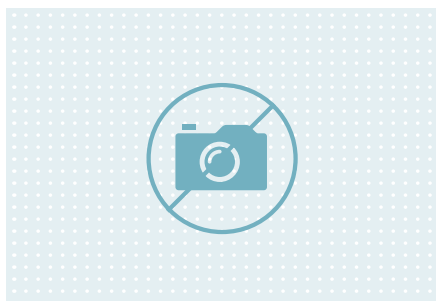


### Oval head screw

Reference number 501S72

#### Technical data

Article number	Spare part for	Thread
501S72=M3X12	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5	M3



### Hexagon nut

Reference number 502S27

#### Technical data

Article number	Spare part for
502S27=M3	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5



## Universal power supply

Reference number 757L16

### Technical data

#### Article number

757L16-2



## Cover for E-MAG Active joint unit

Reference number 317D2

Cover for the E-MAG Active joint unit

### Technical data

Article number	Spare part for	Side
317D2=L	17B203=L 17B203=L-7.5	left (L)
317D2=R	17B203=R 17B203=R-7.5	right (R)



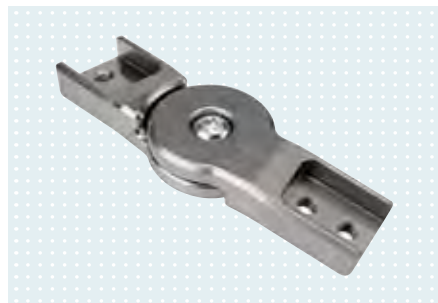
## Countersunk head Torx screw

Reference number 501S137

### Technical data

Article number	Spare part for	Quantity unit
501S137=M5X10	17B203=L 17B203=L-7.5 17B203=R 17B203=R-7.5	Piece

## Accessory for 17B203



### Medial support

Reference number 17B206

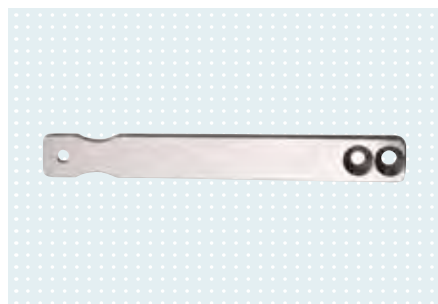
Includes lamination dummy

#### Technical data

Article number	Max. body weight	Quantity unit
17B206	100 kg	Piece
17B206=7.5	100 kg	Piece

#### Information material

646F464=ALL_INT	KAFO selection guide
647G1182	17B206 instructions for use



### Lamination bar

Reference number 17LS3



#### Technical data

Article number	Length	Width	Thickness	Material	Quantity unit
17LS3=16	130 mm	16 mm	6 mm bottom/ 3 mm top	Stainless steel	Piece

## “SCO” – Stance Control Orthoses – E-MAG Active order form

Customer		Shipping address (if different from customer address)	
Customer no.	<input type="text"/>	Customer no.	<input type="text"/>
Company	<input type="text"/>	Company	<input type="text"/>
Street	<input type="text"/>	Street	<input type="text"/>
Postal code/city	<input type="text"/>	Postal code/city	<input type="text"/>
O&P professional	<input type="text"/>	Com.	<input type="text"/>

### User information

Last name, first name:

Age:

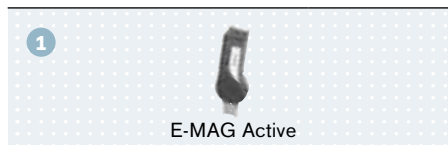
Weight:

Side:  Left  Right

Indication:

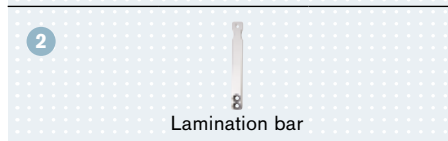
The size chosen depends on the patient's weight and the conditions of use. The joint can also be ordered with an extension stop of 7.5 degrees for patients with a minor knee extension deficit (up to max. 10°). Please enter the required quantity in the field provided.

### Unilateral fitting (up to 85 kg)



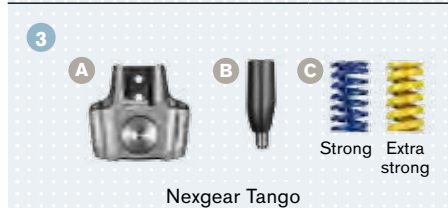
#### 1 E-MAG Active

17B203=R or  17B203=R7.5  
 17B203=L  17B203=L7.5



#### 2 Lamination bar

17LS3=16  
 17LS3=16-T



#### 3 Nexgear Tango

##### A Base body

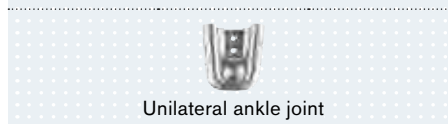
17AD100=16 or  
 17AD100=16-T

##### B Reaction-module

17AD100A=HS-16

##### C Reaction-spring

17AD100A=HS-20-1 (strong)  
 17AD100A=HS-20-2 (extra strong)



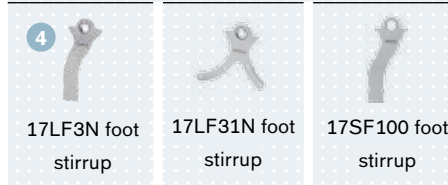
#### 3 Unilateral ankle joint

17LA3N=16  
 17LA3N=16-T



#### 3 Carbon Ankle seven

17CF1





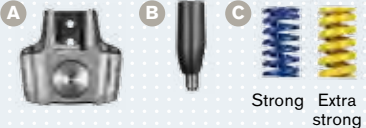



#### 4 Foot stirrup (17LA3N unilateral ankle joint)

17LF3N=16 or  17LF31N=16

#### 4 Foot stirrup (Nexgear Tango)

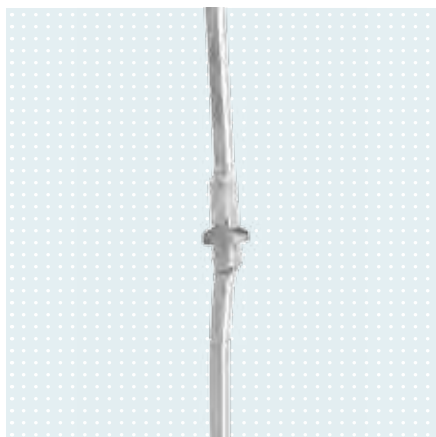
17SF100=OS-16

### Bilateral fitting (up to 100 kg)

<p><b>1</b></p>  <p>E-MAG Active      Medial support</p>	<p><b>1 E-MAG Active</b></p> <p><input type="checkbox"/> 17B203=R    or    <input type="checkbox"/> 17B203=R7.5</p> <p><input type="checkbox"/> 17B203=L         <input type="checkbox"/> 17B203=L7.5</p>	<p><b>1 Medial support</b></p> <p><input type="checkbox"/> 17B206</p> <p><input type="checkbox"/> 17B206=7.5</p>
<p><b>2</b></p>  <p>Lamination bar</p>	<p><b>2 Lamination bar</b></p> <p><input type="checkbox"/> 17LS3=16</p> <p><input type="checkbox"/> 17LS3=16-T</p>	
<p><b>3</b></p>  <p>Nexgear Tango</p> <p>Strong    Extra strong</p>	<p><b>3 Nexgear Tango</b></p> <p><b>A Base body</b></p> <p><input type="checkbox"/> 17AD100=16 or</p> <p><input type="checkbox"/> 17AD100=16-T</p>	<p><b>B Reaction-module</b></p> <p><input type="checkbox"/> 17AD100A=HS-16</p> <p><b>C Reaction-spring</b></p> <p><input type="checkbox"/> 17AD100A=HS-20-1 (strong)</p> <p><input type="checkbox"/> 17AD100A=HS-20-2 (extra strong)</p>
 <p>Unilateral ankle joint</p>	<p><b>3 Unilateral ankle joint</b></p> <p><input type="checkbox"/> 17LA3N=16</p> <p><input type="checkbox"/> 17LA3N=16-T</p>	<p>OR</p>
 <p>Carbon Ankle seven</p>	<p><b>3 Carbon Ankle seven</b></p> <p><input type="checkbox"/> 17CF1</p>	<p>OR</p>
<p><b>4</b></p>  <p>17LF3N foot stirrup    17LF31N foot stirrup    17SF100 foot stirrup</p>	<p><b>4 Foot stirrup (17LA3N unilateral ankle joint)</b></p> <p><input type="checkbox"/> 17LF3N=16 or    <input type="checkbox"/> 17LF31N=16</p> <p><b>4 Foot stirrup (Nexgear Tango)</b></p> <p><input type="checkbox"/> 17SF100=OS-16</p>	<p>←</p> <p>←</p>







### Knee joint with 4-in-1 option ring lock

Reference number 17KL40

Four options in one knee joint

- Automatic ring lock
- Manual ring lock
- Ring lock with lever (17KL19=2 Duchenne bow kit)
- Free motion



#### Technical data

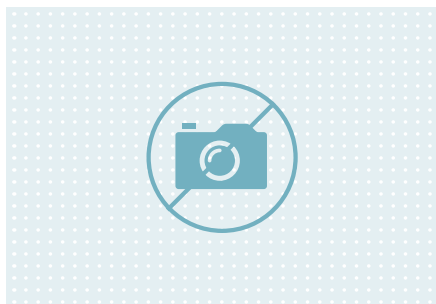
Article number	Upper/lower bar length	Bar width	Joint bar thickness	Bar material	Quantity unit
17KL40=13	310/480 mm	13 mm	5 mm	Stainless steel	Pair
17KL40=13-A	310/ 480 mm	13 mm	5 mm	Aluminium	Pair
17KL40=16	400/ 560 mm	16 mm	5 mm	Stainless steel	Pair
17KL40=16-A	400/ 560 mm	16 mm	5 mm	Aluminium	Pair
17KL40=20	400/ 560 mm	20 mm	5 mm	Stainless steel	Pair
17KL40=20-A	400/ 560 mm	20 mm	5 mm	Aluminium	Pair

- Automatic = a spring presses the ring lock into the locked position
- Manual = the ring lock must be manually moved into the locked position

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
646F596=EN_MASTER	Knee joints overview
647G221	17KF10/17KL20/17KL40 instructions for use

### Spare parts for 17KL40



### Service set

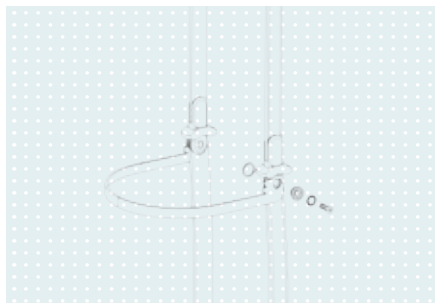
Reference number 17KS=8

Service set for 17KL40

#### Technical data

Article number	Scope of delivery
17KS=8	Bearing nut Bushing Flat round disk with slot Truss head screw with slot Red washerSpring tappe Compression spring Face plate

## Accessory for 17KL40



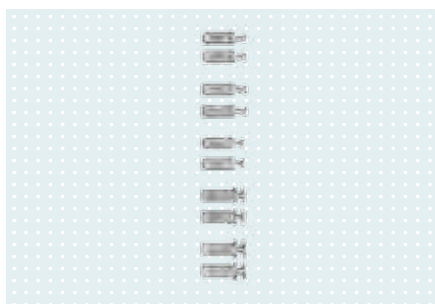
## Duchenne bow kit

Reference number 17KL19

Named after Duchenne muscular dystrophy, because flexion contractures occur at an early stage with patients affected by this disease. The ring lock connection with the bow ensures that the joint is easy to release, even under heavy flexion load, but is secure under load when closed.

**Technical data**

Article number	Accessories for
17KL19=2	17KL40=13 17KL40=13-A 17KL40=16 17KL40=16-A 17KL40=20 17KL40=20-A

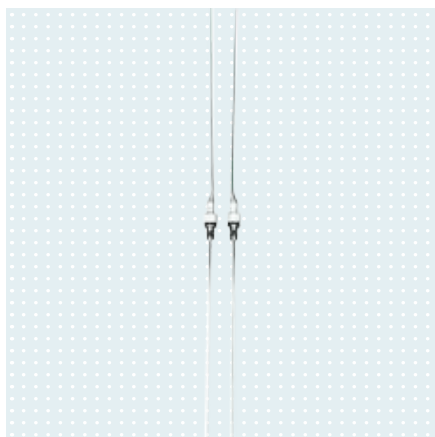


## Alignment insert set

Reference number 743Y57

**Technical data**

Article number	Accessories for
743Y57	17KL40=13 17KL40=13-A 17KL40=16 17KL40=16-A 17KL40=20 17KL40=20-A



### Knee joint bar for children

Reference number 17K29

Locked joint bar with manual ring lock, flat bar profile



#### Technical data

Article number	Milled head Ø	Upper/lower bar length	Bar width	Joint bar thickness	Material	Quantity unit
17K29=4	20 mm	410 / 390 mm	16 mm	3 mm	Stainless steel	Pair
17K29=5	18 mm	300 / 320 mm	14 mm	3 mm	Stainless steel	Pair
17K29=6	16 mm	220 / 250 mm	12 mm	3 mm	Stainless steel	Pair

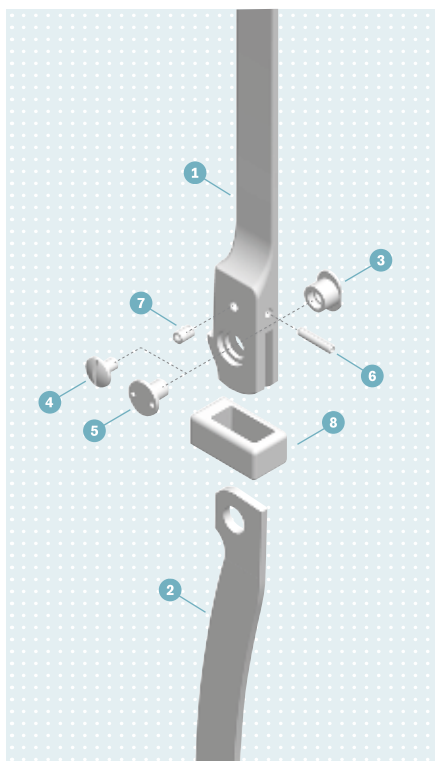
#### Information material

646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars
647G95	501D1 instructions for use

#### **i** Practical recommendation 17K29

The following shoulder screws can be used with the 17K29/32/33/34/42 joint bars for children: 501A1=12x6xM4

### Spare parts for 17K29



#### (1) Knee joint bar, upper section

Reference number 17X7

#### Technical data

Article number	Spare part for	Side	Material	Quantity unit
17X7=L4	17K29=4	left	Stainless steel	Piece
17X7=R4	17K29=4	right	Stainless steel	Piece
17X7=L5	17K29=5	left	Stainless steel	Piece
17X7=R5	17K29=5	right	Stainless steel	Piece
17X7=L6	17K29=6	left	Stainless steel	Piece
17X7=R6	17K29=6	right	Stainless steel	Piece

#### (2) Knee joint bar, lower section

Reference number 17U7

#### Technical data

Article number	Spare part for	Material	Quantity unit
17U7=4	17K29=4	Stainless steel	Piece
17U7=5	17K29=5	Stainless steel	Piece
17U7=6	17K29=6	Stainless steel	Piece

### (3) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6X6.7XM4	17K29=5 17K29=6	5.45 mm	12 mm	6.7 mm	M4	6 mm	Piece
17Y93=6.5X6.7XM4	17K29=5 17K29=6	5.45 mm	12 mm	6.7 mm	M4	6.5 mm	Piece
17Y93=7X6.7XM4	17K29=5 17K29=6	5.45 mm	12 mm	6.7 mm	M4	7 mm	Piece
17Y93=9X7.2XM6	17K29=4	6 mm	14 mm	7.2 mm	M6	9 mm	Piece
17Y93=9X9.2XM6	17K29=4	8 mm	14 mm	9.2 mm	M6	9 mm	Piece
17Y93=9.5X7.2XM6	17K29=4	6 mm	14 mm	7.2 mm	M6	9.5 mm	Piece
17Y93=10X7.2XM6	17K29=4	6 mm	14 mm	7.2 mm	M6	10 mm	Piece

### (4) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	Spare part for	Head Ø	Length	Thread	Material	Quantity unit
501S32=M4X10X9.5	17K29=5 17K29=6	10 mm	9.5 mm	M4	Stainless steel	Piece

### (5) Two-hole screw

Reference number 501S34

#### Technical data

Article number	Spare part for	Material	Quantity unit
501S34=M6	17K29=4	Stainless steel	Piece

### (6) Clamping sleeve

Reference number 506S1

#### Technical data

Article number	Quantity unit
506S1=3X14	Piece

### (7) Spring-loaded thrust piece

Reference number 501D1

#### Technical data

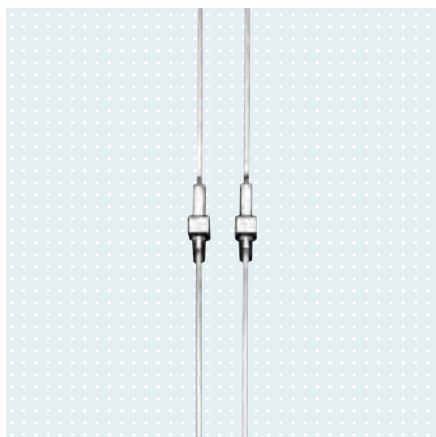
Article number	Spare part for	Material	Quantity unit
501D1	17K29=4 17K29=5 17K29=6	Stainless steel	Piece

### (8) Ring lock

Reference number 17Y13

#### Technical data

Article number	Spare part for	Material	Quantity unit
17Y13=4	17K29=4	Stainless steel	Piece
17Y13=5	17K29=5 17K29=6	Stainless steel	Piece



### Information material

646F596=EN_MASTER	Knee joints overview
647G78=ALL_INT	Light metal bars instructions for use

## Knee joint bar for children

Reference number 17K42

Locked knee joint bar with manual ring lock, flat bar profile, upper and lower sections made of aluminium, joint made of stainless steel



### Technical data

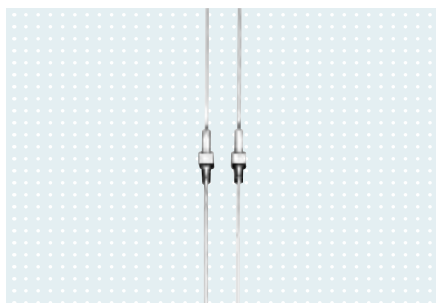
Article number	Milled head Ø	Upper/lower bar length	Bar width	Joint bar thickness	Material	Quantity unit
17K42=4	20 mm	410 / 390 mm	16 mm	3 mm	Stainless steel, Aluminium	Pair
17K42=5	18 mm	300 / 320 mm	14 mm	3 mm	Stainless steel, Aluminium	Pair
17K42=6	16 mm	220 / 250 mm	12 mm	3 mm	Stainless steel, Aluminium	Pair



### Practical recommendation 17K42

The following shoulder screws can be used with the 17K29, 17K32, 17K33, 17K34 and 17K42 joint bars for children: 501A1=12x6xM4

## Spare parts for 17K42

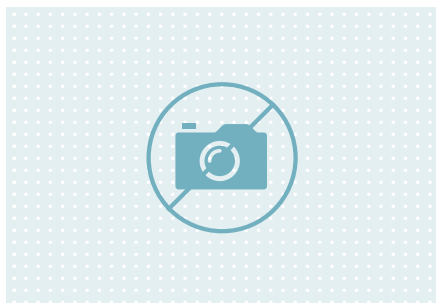


## Knee joint bar, upper section

Reference number 17X1

### Technical data

Article number	Spare part for	Side	Material	Quantity unit
17X1=L4	17K42=4	left (L)	Aluminium	Piece
17X1=R4	17K42=4	right (R)	Aluminium	Piece
17X1=L5	17K42=5	left (L)	Aluminium	Piece
17X1=R5	17K42=5	right (R)	Aluminium	Piece
17X1=L6	17K42=6	left (L)	Aluminium	Piece
17X1=R6	17K42=6	right (R)	Aluminium	Piece



## Knee joint bar, lower section

Reference number 17U11

### Technical data

Article number	Spare part for	Material	Quantity unit
17U11=4	17K42=4	Aluminium	Piece
17U11=5	17K42=5	Aluminium	Piece
17U11=6	17K42=6	Aluminium	Piece



## Bearing nut, hardened

Reference number 17Y93

### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Attachment Ø	Quantity unit
17Y93=6X6.7XM4	17K42=5 17K42=6	5.45 mm	12 mm	6.7 mm	M4	6 mm	Piece
17Y93=6.5X6.7XM4	17K42=5 17K42=6	5.45 mm	12 mm	6.7 mm	M4	6.5 mm	Piece
17Y93=7X6.7XM4	17K42=5 17K42=6	5.45 mm	12 mm	6.7 mm	M4	7 mm	Piece
17Y93=9X7.2XM6	17K42=4	6 mm	14 mm	7.2 mm	M6	9 mm	Piece
17Y93=9.5X7.2XM6	17K42=4	6 mm	14 mm	7.2 mm	M6	9.5 mm	Piece
17Y93=10X7.2XM6	17K42=4	6 mm	14 mm	7.2 mm	M6	10 mm	Piece

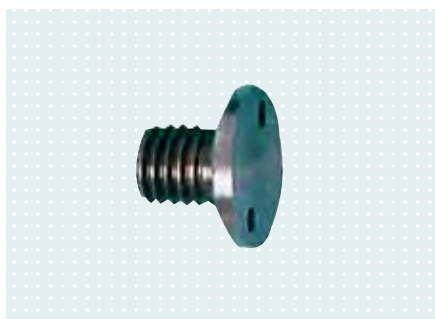


## Slotted truss head screw

Reference number 501S32

### Technical data

Article number	Spare part for	Head Ø	Length	Thread	Material	Quantity unit
501S32=M4X10X9.5	17K42=5 17K42=6	10 mm	9.5 mm	M4	Stainless steel	Piece

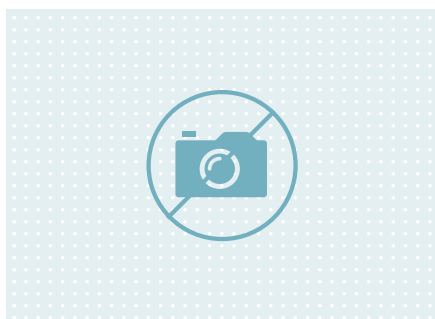


## Two-hole screw

Reference number 501S34

### Technical data

Article number	Spare part for	Material	Quantity unit
501S34=M6	17K42=4	Stainless steel	Piece



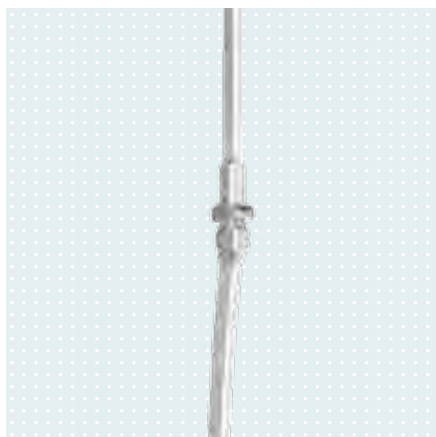
## Ring lock

Reference number 17Y13

Ring lock for knee joints

### Technical data

Article number	Spare part for	Material	Quantity unit
17Y13=4	17K42=4	Stainless steel	Piece
17Y13=5	17K42=5 17K42=6	Stainless steel	Piece



### Knee joint with ring lock

Reference number 17KL6

Straight medial and lateral joints, with automatic ring lock



#### Technical data

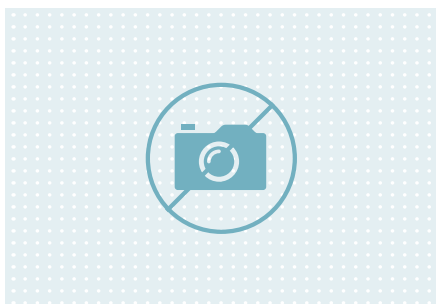
Article number	Upper/lower bar length	Bar width	Joint bar thickness	Bar material	Quantity unit
17KL6=13-A	300 / 500 mm	13 mm	5 mm	Aluminium	Pair
17KL6=13-CS	300 / 500 mm	13 mm	5 mm	Steel	Pair
17KL6=16-A	400 / 570 mm	16 mm	6,35 mm	Aluminium	Pair
17KL6=16-CS	400 / 570 mm	16 mm	5 mm	Steel	Pair

- Automatic = a spring presses the ring lock into the locked position

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
647G1318	17KL6/17KL7/17KL8/17KL9 instructions for use

### Spare parts for 17KL6

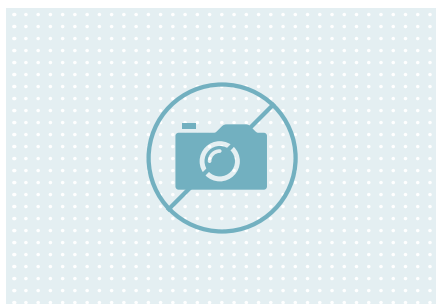


### Service set

Reference number 17KS=6

#### Technical data

Article number	Spare part for	Scope of delivery
17KS=6	17KL6=13-A	Bearing nut Bushing Face plate Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece



### Service set

Reference number 17KHS=3

Service set for hip and knee joints

#### Technical data

Article number	Spare part for	Scope of delivery
17KHS=3	17KL6=13-CS 17KL6=15-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece



## Service set

Reference number 17KS=4

### Technical data

Article number	Spare part for	Scope of delivery
17KS=4	17KL6=16-A	Bearing nut Bushing Face plate Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece



## Service set

Reference number 17KHS=2

Service set for hip and knee joints

### Technical data

Article number	Spare part for	Scope of delivery
17KHS=2	17KL6=16-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring russ head screw with slot Spring-loaded thrust piece

## Accessory for 17KL6



## Alignment insert set

Reference number 743Y57

### Technical data

Article number	Accessories for
743Y57	17KL6=16-CS 17KL6=16-A 17KL6=13-A 17KL6=13-CS



## Chailey kit

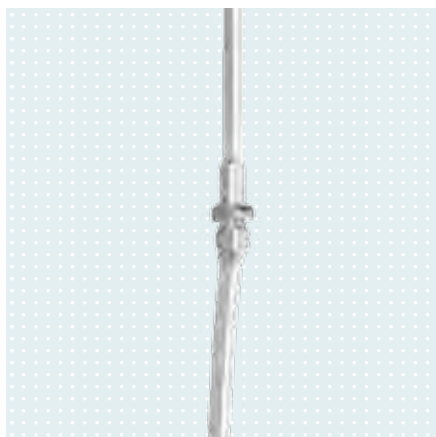
Reference number 17KL19

Bow for unlocking the 17KL6=\* ring lock joints

### Technical data

Article number	Accessories for
17KL19=3	17KL6=16-CS 17KL6=16-A
17KL19=5	17KL6=13-A 17KL6=13-CS





### Knee joint with ring lock

Reference number 17KL7

Straight medial and lateral joints, with manual ring lock



#### Technical data

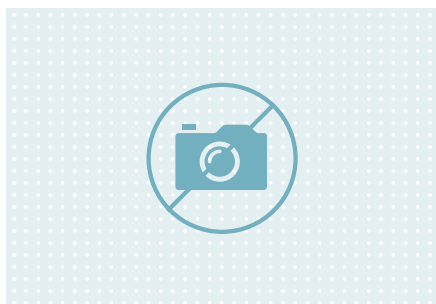
Article number	Upper/lower bar length	Bar width	Joint bar thickness	Bar material	Quantity unit
17KL7=13-A	300 / 500 mm	13 mm	5 mm	Aluminium	Pair
17KL7=13-CS	300 / 500 mm	13 mm	5 mm	Steel	Pair
17KL7=16-A	400 / 570 mm	16 mm	6,35 mm	Aluminium	Pair
17KL7=16-CS	400 / 570 mm	16 mm	5 mm	Steel	Pair

- Manual = the ring lock must be manually moved into the locked position

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
647G1318	17KL6/17KL7/17KL8/17KL9 instructions for use

### Spare parts for 17KL7



### Service set

Reference number 17KS=6

#### Technical data

Article number	Spare part for	Scope of delivery
17KS=6	17KL7=13-A	Bearing nut Bushing Face plate Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece



### Service set

Reference number 17KHS=3

Service set for hip and knee joints

#### Technical data

Article number	Spare part for	Scope of delivery
17KHS=3	17KL7=13-CS 17KL7=15-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece

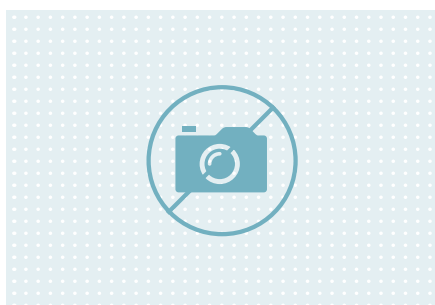


### Service set

Reference number 17KS=4

#### Technical data

Article number	Spare part for	Scope of delivery
17KS=4	17KL7=16-A	Bearing nut Bushing Face plate Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece



### Service set

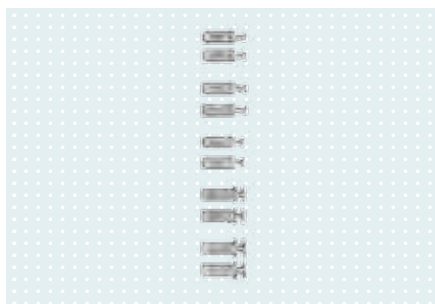
Reference number 17KHS=2

Service set for hip and knee joints

#### Technical data

Article number	Spare part for	Scope of delivery
17KHS=2	17KL7=16-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece

### Accessory for 17KL7

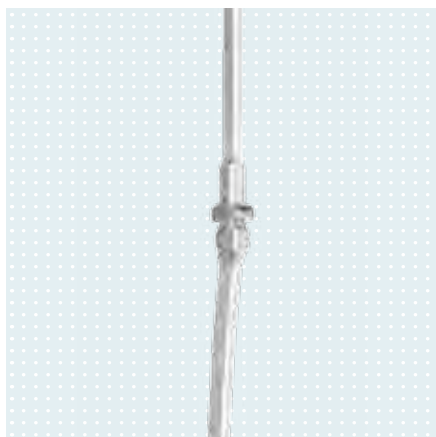


### Alignment insert set

Reference number 743Y57

#### Technical data

Article number	Accessories for
743Y57	17KL7=13-A 17KL7=13-CS 17KL7=16-CS 17KL7=16-A



### Knee joint with ring lock

Reference number 17KL8

Straight medial and lateral joints, with automatic ring lock  
Reinforced version of the 17KL6 knee joint



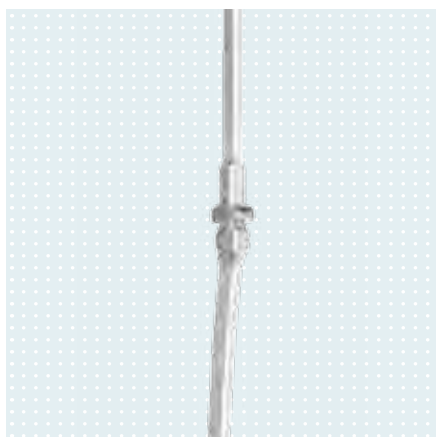
#### Technical data

Article number	Upper/lower bar length	Bar width	Joint bar thickness	Bar material	Quantity unit
17KL8=16-CS	400 / 570 mm	16 mm	6,35 mm	Steel	Pair
17KL8=20-CS	400 / 570 mm	20 mm	7 mm	Steel	Pair

- Automatic = a spring presses the ring lock into the locked position

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
647G1318	17KL6/17KL7/17KL8/17KL9 instructions for use



### Knee joint with ring lock

Reference number 17KL9

Straight medial and lateral joints, with manual ring lock  
Reinforced version of the 17KL7 knee joint



#### Technical data

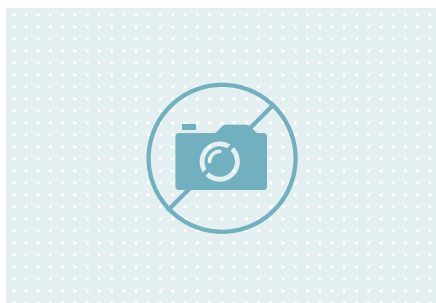
Article number	Upper/lower bar length	Bar width	Joint bar thickness	Bar material	Quantity unit
17KL9=16-CS	400 / 570 mm	16 mm	6,35 mm	Steel	Pair
17KL9=20-CS	400 / 570 mm	20 mm	7 mm	Steel	Pair

- Manual = the ring lock must be manually moved into the locked position

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
647G1318	17KL6/17KL7/17KL8/17KL9 instructions for use

## Spare parts for 17KL8, 17KL9



## Service set

Reference number 17KS=1

## Technical data

Article number	Spare part for	Scope of delivery
17KS=1	17KL8=16-CS 17KL9=16-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece



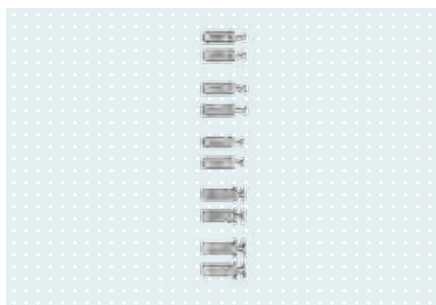
## Service set

Reference number 17KS=7

## Technical data

Article number	Spare part for	Scope of delivery
17KS=7	17KL8=20-CS 17KL9=20-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot

## Accessory for 17KL8, 17KL9



## Alignment insert set

Reference number 743Y57

## Technical data

Article number	Accessories for
743Y57	17KL8=16-CS 17KL8=20-CS 17KL9=16-CS 17KL9=20-CS



### Knee joint bar for children

Reference number 17K34

With open Swiss lock, flat bar profile



#### Technical data

Article number	Upper/lower bar length	Bar width	Joint bar thickness	Joint head Ø	Material	Quantity unit
17K34=6	220 / 250 mm	12 mm	3 mm	16 mm	Stainless steel	Pair
17K34=5	300 / 320 mm	14 mm	3 mm	18 mm	Stainless steel	Pair
17K34=4	410 / 390 mm	16 mm	3 mm	20 mm	Stainless steel	Pair

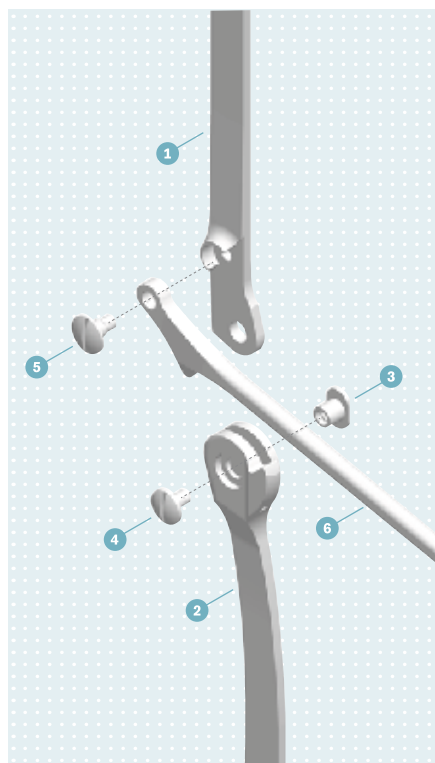
#### Information material

646F596=EN\_MASTER Knee joints overview

#### **i** Practical recommendation 17K34

The following shoulder screws can be used with the 17K29, 17K32, 17K33, 17K34 and 17K42 joint bars for children: 501A1=12x6xM4

### Spare parts for 17K34



### (1) Knee joint bar, upper section

Reference number 17X10

#### Technical data

Article number	Spare part for	Side	Material	Quantity unit
17X10=L6	17K34=6	left (L)	Stainless steel	Piece
17X10=R6	17K34=6	right (R)	Stainless steel	Piece
17X10=L5	17K34=5	left (L)	Stainless steel	Piece
17X10=R5	17K34=5	right (R)	Stainless steel	Piece
17X10=L4	17K34=4	left (L)	Stainless steel	Piece
17X10=R4	17K34=4	right (R)	Stainless steel	Piece

### (2) Knee joint bar, lower section

Reference number 17U10

#### Technical data

Article number	Spare part for	Side	Material	Quantity unit
17U10=L6	17K34=6	left (L)	Stainless steel	Piece
17U10=R6	17K34=6	right (R)	Stainless steel	Piece
17U10=L5	17K34=5	left (L)	Stainless steel	Piece
17U10=R5	17K34=5	right (R)	Stainless steel	Piece
17U10=L4	17K34=4	left (L)	Stainless steel	Piece
17U10=R4	17K34=4	right (R)	Stainless steel	Piece

### (3) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	17K34=5 17K34=6	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6X6.7XM4	17K34=5 17K34=6	5.45 mm	12 mm	6.7 mm	M4	6 mm	Piece
17Y93=6.5X6.7XM4	17K34=5 17K34=6	5.45 mm	12 mm	6.7 mm	M4	6.5 mm	Piece
17Y93=7X6.7XM4	17K34=4	5.45 mm	12 mm	6.7 mm	M4	7 mm	Piece
17Y93=9X7.2XM6	17K34=4	6 mm	14 mm	7.2 mm	M6	9 mm	Piece
17Y93=9.5X7.2XM6	17K34=4	6 mm	14 mm	7.2 mm	M6	9.5 mm	Piece
17Y93=10X7.2XM6	17K34=4	6 mm	14 mm	7.2 mm	M6	10 mm	Piece

### (4) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	Spare part for	Head Ø	Length	Thread	For system width	Material	Quantity unit
501S32=M4X10X9.5	17K34=5 17K34=6	10 mm	9.5 mm	M4	16 mm	Stainless steel	Piece
501S32=M6X14X10	17K34=4	14 mm	10 mm	M6	20/16 mm	Stainless steel	Piece

### (5) Oval head screw, slotted and partially threaded

Reference number 501A11

#### Technical data

Article number	Spare part for	Thread	Attachment Ø	Head Ø	Material	Quantity unit
501A11=11X5XM4	17K34=5 17K34=6	M4	5 mm	11 mm	Stainless steel	Piece

### (6) Lock lever

Reference number 17Y37

#### Technical data

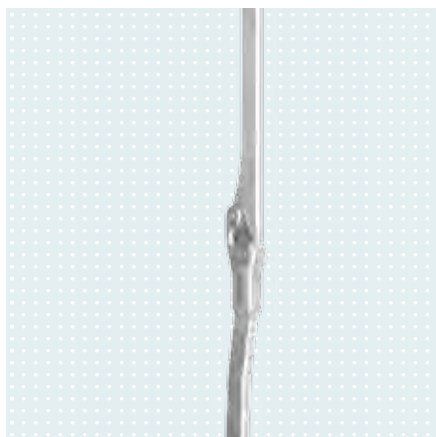
Article number	Side	Material	Quantity unit
17Y37=L	left (L)	Stainless steel	Piece
17Y37=R	right (R)	Stainless steel	Piece

### (7) Lock lever

Reference number 17Y57

#### Technical data

Article number	Side	For system width	Material	Quantity unit
17Y57=L	left (L)	16 and 20 mm	Stainless steel	Piece
17Y57=R	right (R)	16 and 20 mm	Stainless steel	Piece



### Knee joint with open Swiss lock

Reference number 17KL30

Straight medial and lateral joints, with open Swiss lock

- Easy to unlock
- Lever included



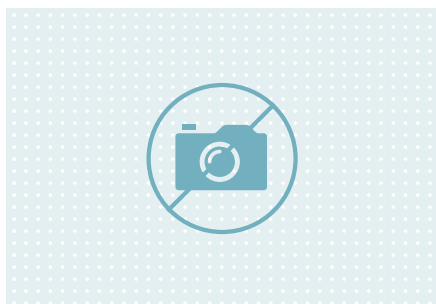
#### Technical data

Article number	Upper/lower bar length	Bar width	Joint bar thickness	Bar material	Quantity unit
17KL30=16-CS	400 / 570 mm	16 mm	5 mm	Steel	Pair
17KL30=20-A	400 / 570 mm	20 mm	5 mm	Aluminium	Pair

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
647G1321	17KL30 instructions for use

### Spare parts for 17KL30



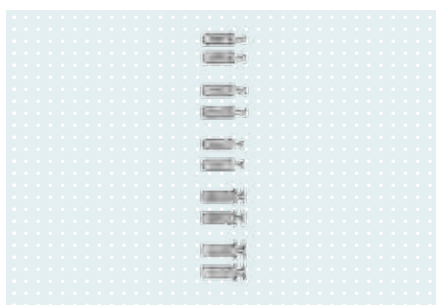
### Service set

Reference number 17KS=14

#### Technical data

Article number	Spare part for	Scope of delivery
17KS=14	17KL30=16-CS 17KL30=20-A	Flat round disk with slot Red washer Bearing nut Bushing Face plate

### Accessory for 17KL30

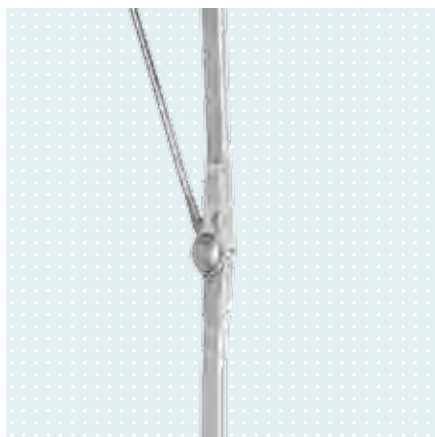


### Alignment insert set

Reference number 743Y57

#### Technical data

Article number	Accessories for
743Y57	17KL30=16-CS 17KL30=20-A



## Knee joint with covered Swiss lock

Reference number 17KL20

Straight medial and lateral joints, with covered Swiss lock



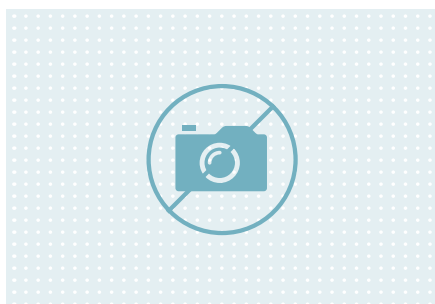
### Technical data

Article number	Upper/lower bar length	Bar width	Joint bar thickness	Version	Bar material	Quantity unit
17KL20=13	300 / 490 mm	13 mm	5 mm	Straight	Stainless steel	Pair
17KL20=13-A	300 / 490 mm	13 mm	5 mm	Straight	Aluminium	Pair
17KL20=20	400 / 560 mm	20 mm	5 mm	Straight	Stainless steel	Pair
17KL20=20-A	400 / 560 mm	20 mm	5 mm	Straight	Aluminium	Pair

### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
646F596=EN_MASTER	Knee joints overview
647G221	17KF10/17KL20/17KL40 instructions for use

## Spare parts for 17KL20



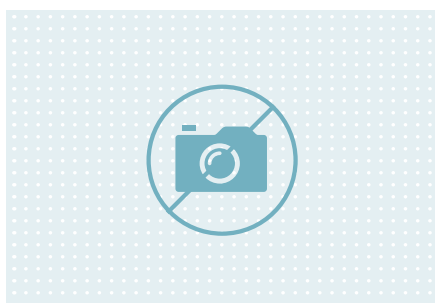
## Service set

Reference number 17KS=9

Service set for 17KL20=13\*

### Technical data

Article number	Spare part for	Scope of delivery
17KS=9	17KL20=13-CS 17KL20=13-A 17KL20=13	Bearing nut Flat round disk with slot Red washer Lock washer Washer Bale pin Compression spring



## Service set

Reference number 17KS=10

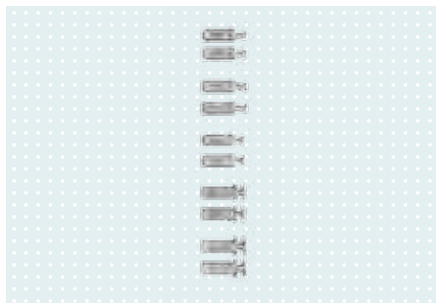
Service set for 17KL20=\*

### Technical data

Article number	Spare part for	Scope of delivery
17KS=10	17KL20=16-CS 17KL20=20-A 17KL20=C-20 17KL20=C-20-A 17KL20=L-20 17KL20=R-20 17KL20=R-20-A 17KL20=L-20-A 17KL20=20	Bearing nut Flat round disk with slot Red washer Lock washer Washer Bale pin Compression spring



## Accessory for 17KL20

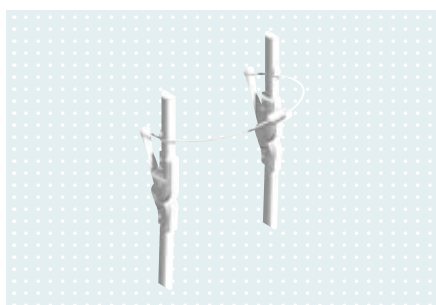


### Alignment insert set

Reference number 743Y57

#### Technical data

Article number	Accessories for
743Y57	17KL20=13 17KL20=13-A 17KL20=20 17KL20=20-A



### Pull-release cable

Reference number 17MS30

The pull-release cable can be positioned anterior or posterior. Thanks to the change of direction, less force is required for pulling.

#### Technical data

Article number	Accessories for	Quantity unit
17MS30=A	17KL20=13 17KL20=13-A 17KL20=20 17KL20=20-A	Pair



## Modular system knee joint

Reference number 17B42

Locked knee joint with ring lock; straight medial and lateral joints



### Technical data

Article number	System width	Milled head	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B42=16	16 mm	25x4 mm	56 mm	38 mm	Stainless steel	Pair
17B42=20	20 mm	25x4 mm	56 mm	38 mm	Stainless steel	Pair

### Information material

646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars



### Practical recommendation 17B42

On worn joints, the tolerance can be reduced with the repair bolts. A suitable reamer is usually used for adaptation.



## Modular system knee joint

Reference number 17B20

Locked knee joint with ring lock; contoured medial joint, straight lateral joint



### Technical data

Article number	Side	System width	Milled head	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B20=L16	left (L)	16 mm	25x4 mm	56 mm	38 mm	Stainless steel	Pair
17B20=R16	right (R)	16 mm	25x4 mm	56 mm	38 mm	Stainless steel	Pair
17B20=L20	left (L)	20 mm	25x4 mm	56 mm	38 mm	Stainless steel	Pair
17B20=R20	right (R)	20 mm	25x4 mm	56 mm	38 mm	Stainless steel	Pair

### Information material

646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars



### Practical recommendation 17B20

On worn joints, the tolerance can be reduced with the repair bolts. A suitable reamer is usually used for adaptation.



### Modular system knee joint

Reference number 17B21

Locked knee joint with ring lock; contoured lower segment of medial joint, straight upper segment, straight lateral joint



#### Information material

646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars

#### Technical data

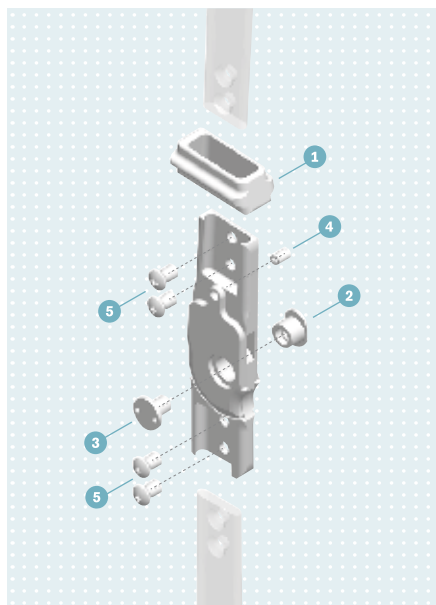
Article number	Side	System width	Milled head	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B21=L16	left (L)	16 mm	25x4 mm	56 mm	38 mm	Stainless steel	Pair
17B21=R16	right (R)	16 mm	25x4 mm	56 mm	38 mm	Stainless steel	Pair
17B21=L20	left (L)	20 mm	25x4 mm	56 mm	38 mm	Stainless steel	Pair
17B21=R20	right (R)	20 mm	25x4 mm	56 mm	38 mm	Stainless steel	Pair



#### Practical recommendation 17B42, 17B20, 17B21

On worn joints, the tolerance can be reduced with the repair bolts. A suitable reamer is usually used for adaptation.

## Spare parts for 17B42, 17B20, 17B21



### (1) Ring lock

Reference number 17Y31

#### Technical data

Article number	oboPlaceholder_Material	Quantity unit
17Y31=25X9.5	Stainless steel	Piece

### (2) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Attachment Ø	Quantity unit
17Y93=9X7.2XM6	17B20=L16 17B20=L20 17B20=R16 17B20=R20 17B21=L16 17B21=L20 17B21=R16 17B21=R20 17B42=16 17B42=20	6 mm	14 mm	7.2 mm	M6	9 mm	Piece
17Y93=9.5X7.2XM6	17B20=L16 17B20=L20 17B20=R16 17B20=R20 17B21=L16 17B21=L20 17B21=R16 17B21=R20 17B42=16 17B42=20	6 mm	14 mm	7.2 mm	M6	9.5 mm	Piece

### (3) Two-hole screw

Reference number 501S34

#### Technical data

Article number	Spare part for	Material	Quantity unit
501S34=M6	17B20=R16 17B20=L16 17B20=L20 17B20=R20 17B21=R16 17B21=R20 17B21=L16 17B21=L20 17B42=16 17B42=20	Stainless steel	Piece

### (4) Spring-loaded thrust piece

Reference number 501D1

#### Technical data

Article number	Spare part for	Material	Quantity unit
501D1	17B20=R16 17B20=L16 17B20=L20 17B20=R20 17B21=R16 17B21=R20 17B21=L16 17B21=L20 17B42=16 17B42=20	Stainless steel	Piece

### (5) Phillips oval countersunk head screw

Reference number 501T7

#### Technical data

Article number	for	Head Ø	Length	Material	Quantity unit
501T7=7.5X9XM5	System side bars	7,5 mm	9 mm	Stainless steel	Piece

Accessory for 17B42, 17B20, 17B21



### System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece



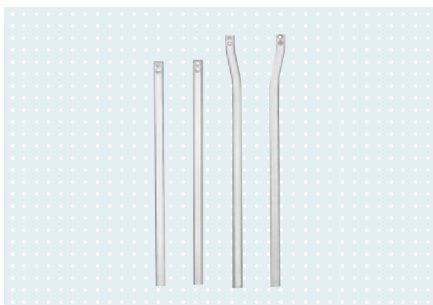
### System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece



### System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



### System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



### System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



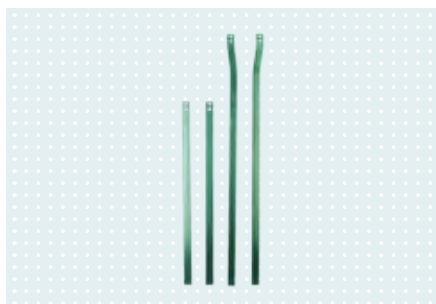
## System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set



## System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



## System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



### System knee joint

Reference number 17B105

Locked knee joint with wedge lock and pull-release cable  
Medial joint contoured at the bottom, straight at the top, straight lateral joint with wedge lock and pull-release cable



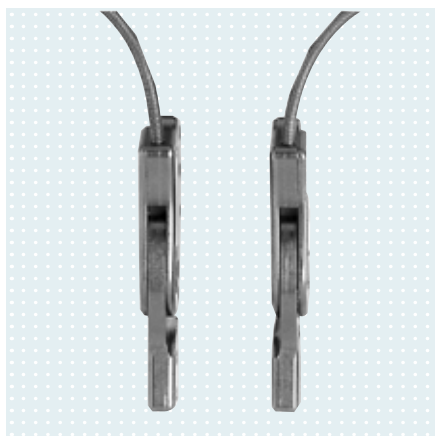
#### Technical data

Article number	Side	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B105=L16	left (L)	16 mm	45 mm	41 mm	Titanium	Pair
17B105=R16	right (R)	16 mm	45 mm	41 mm	Titanium	Pair
17B105=L20	left (L)	20 mm	45 mm	41 mm	Titanium	Pair
17B105=R20	right (R)	20 mm	45 mm	41 mm	Titanium	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
647H275	IFU for 17B105/106 system knee joints

Patent: WO 99/11206, EP 936891



### System knee joint

Reference number 17B106

Locked knee joint with wedge lock and pull-release cable  
Straight medial and lateral joints, with wedge lock and pull-release cable



#### Technical data

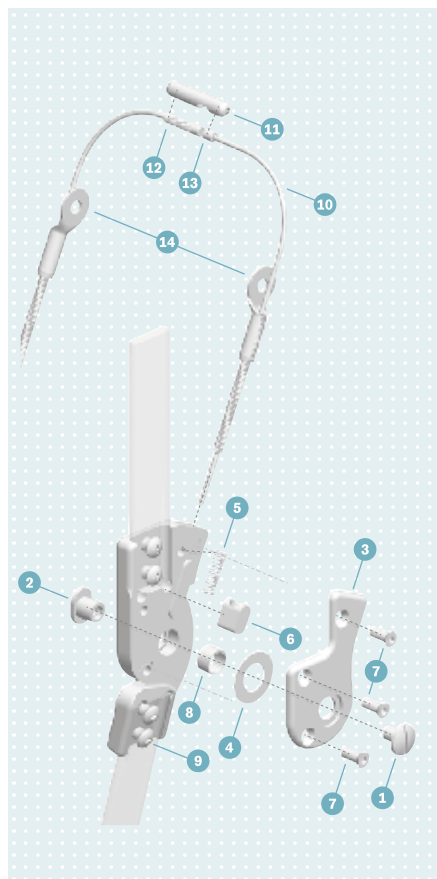
Article number	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B106=16	16 mm	45 mm	41 mm	Titanium	Pair
17B106=20	20 mm	45 mm	41 mm	Titanium	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
647H275	IFU for 17B105/106 system knee joints

Patent: WO 99/11206, EP 936891

## Spare parts for 17B105, 17B106

**(1) Slotted truss head screw**

Reference number 501S32

**Technical data**

Article number	Head Ø	Length	Thread	For system width	Material	Quantity unit
501S32=M5X10X10	10 mm	10 mm	M5	16 mm	Stainless steel	Piece
501S32=M5X12X11	12 mm	11 mm	M5	20 mm	Stainless steel	Piece

**(2) Bearing nut, hardened**

Reference number 17Y93

**Technical data**

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Attachment Ø	Quantity unit
17Y93=7X8.85XM5	17B106=16 17B105=R16 17B105=L16			8,85 mm	M5	7 mm	Piece
17Y93=8X9XM5	17B106=20 17B105=L20 17B105=R20	7.6 mm	12 mm	9 mm	M5	8 mm	Piece

**(3) Cover**

Reference number 17Y121

**Technical data**

Article number	Side	System width	Material	Quantity unit
17Y121=L16	left (L)	16 mm	Titanium	Piece
17Y121=R16	right (R)	16 mm	Titanium	Piece
17Y121=L20	left (L)	20 mm	Titanium	Piece
17Y121=R20	right (R)	20 mm	Titanium	Piece

**(4) Bearing washer**

Reference number 4Z80

**Technical data**

Article number	For system width	Material	Quantity unit
4Z80=9.2X16X0.2	16 mm	Polyamide	Piece
4Z80=10.2X20X0.2	20 mm	Polyamide	Piece

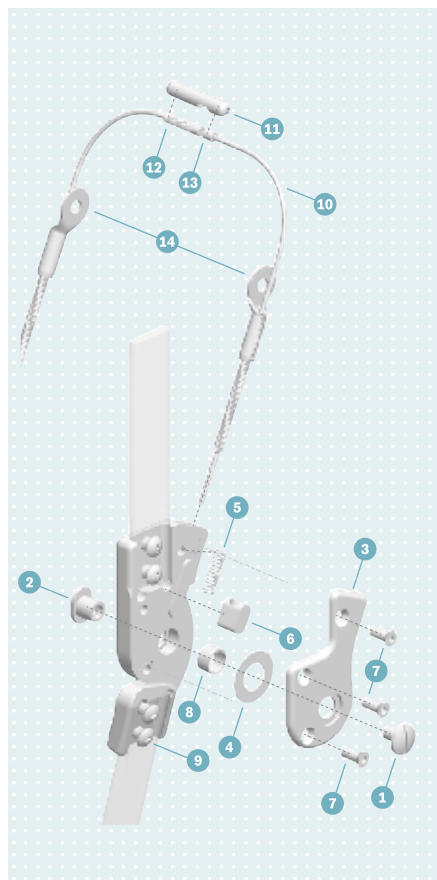
**(5) Compression spring**

Reference number 513D19

**Technical data**

Article number	For system width	Quantity unit
513D19=0.63X4X20	20 mm	Piece





### (6) Wedge lock, hardened

Reference number 17Y122

#### Technical data

Article number	For system width	Quantity unit
513D19=0.63X4X20	20 mm	Piece

### (7) Flat head screw

Reference number 17Y123

#### Technical data

Article number	Quantity unit
17Y123=M4X10	Piece

### (8) Brass bushing

Reference number 17Y17

#### Technical data

Article number	For system width	Material	Quantity unit
17Y17=7X9X5.4	16 mm	Brass	Piece
17Y17=8X10X5.4	20 mm	Brass	Piece

### (9) Phillips oval countersunk head screw

Reference number 501T7

#### Technical data

Article number	Head Ø	Thread	Length	Material	Quantity unit
501T7=7.5X9XM5	7.5 mm	M5	9 mm	Stainless steel	Piece

### (10) Perlon cable

Reference number 21A18

#### Technical data

Article number	Diameter	Length	Order unit
21A18=2X1	2 mm	1 m	linear metres
21A18=2X5	2 mm	5 m	linear metres
21A18=2X10	2 mm	10 m	linear metres
21A18=2X25	2 mm	25 m	linear metres

### (11) Coupling piece

Reference number 21A7

#### Technical data

Article number	Quantity unit
21A7	Piece

## (12) Spring

Reference number 21A25

### Technical data

Article number	Quantity unit
21A25	Piece

## (13) Threaded sleeve

Reference number 21A12

### Technical data

Article number	Package contents	Quantity unit
21A12	2 pieces	Piece

## (14) Eyelet cable anchor, large

Reference number 21A5

### Technical data

Article number	Contents	Width	Length	Clear width	Weight
21A5	1 Piece(s)	15 mm	35 mm	5 mm	4 g

## (15) Lamination dummy

Reference number 17Y126

### Technical data

Article number	For system width	Quantity unit
17Y126=16	16 mm	Piece
17Y126=20	20 mm	Piece

### Accessory for 17B105, 17B106



### System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece



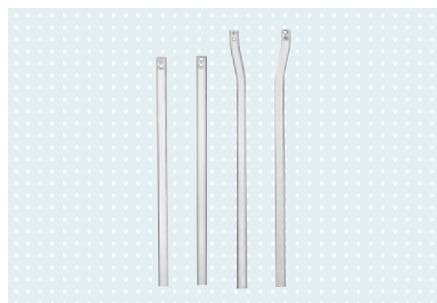
### System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece



### System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



### System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



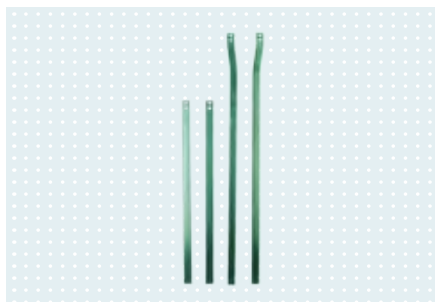
## System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



## System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



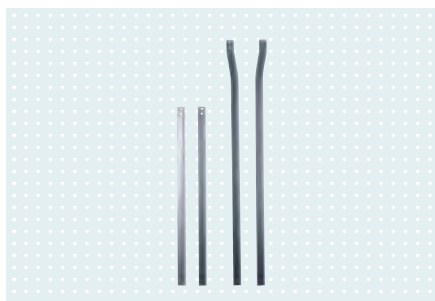
## System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



## System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set



### System knee joint

Reference number 17B95

Locked knee joint with wedge lock and pull-release cable  
 With 16mm system width: suitable for body weight up to 50kg  
 Medial joint contoured at the bottom and straight at the top, straight lateral joint



#### Technical data

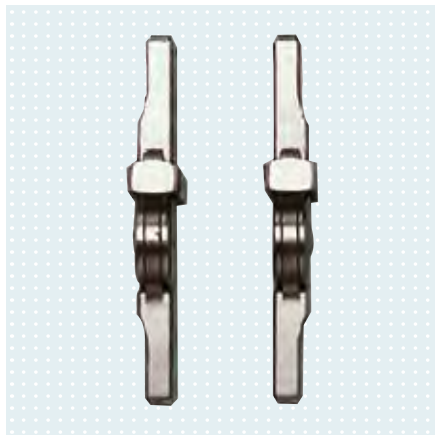
Article number	Side	System width	Milled head	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B95=L16	left (L)	16 mm	23x4 mm	50 mm	40 mm	Stainless steel	Pair
17B95=R16	right (R)	16 mm	23x4 mm	50 mm	40 mm	Stainless steel	Pair
17B95=L20	left (L)	20 mm	30x5 mm	58 mm	42 mm	Stainless steel	Pair
17B95=R20	right (R)	20 mm	30x5 mm	58 mm	42 mm	Stainless steel	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
647G1536=ALL_INT	17B95 / 17B96 instructions for use

#### **i** Practical recommendation 17B95

On worn joints, the tolerance can be reduced with the repair bolts. A suitable reamer is usually used for adaptation.



### System knee joint

Reference number 17B96

Locked knee joint with wedge lock and pull-release cable  
 With 16mm system width: suitable for body weight up to 50kg  
 Straight medial and lateral joints



#### Technical data

Article number	System width	Milled head	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B96=16	16 mm	23x4 mm	50 mm	40 mm	Stainless steel	Pair
17B96=20	20 mm	30x5 mm	58 mm	42 mm	Stainless steel	Pair

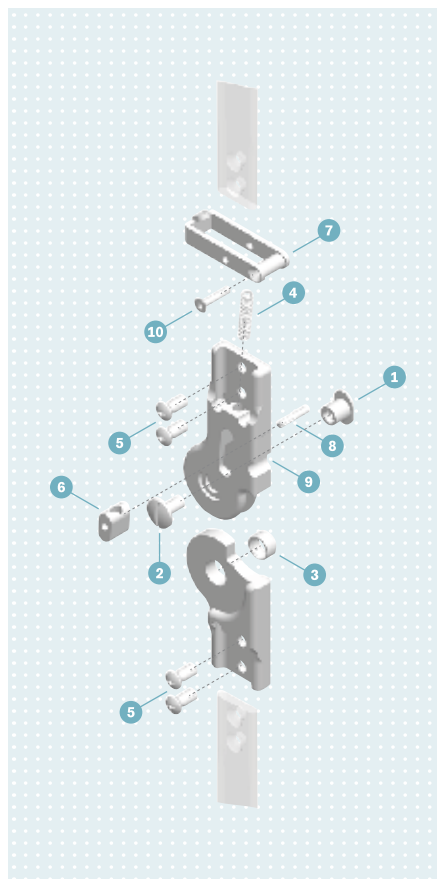
#### Information material

646F596=EN_MASTER	Knee joints overview
647G1536=ALL_INT	17B95 / 17B96 instructions for use

#### **i** Practical recommendation 17B96

On worn joints, the tolerance can be reduced with the repair bolts. A suitable reamer is usually used for adaptation.

## Spare parts for 17B95, 17B96

**(1) Bearing nut, hardened**

Reference number 17Y93

**Technical data**

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Attachment Ø	Quantity unit
17Y93=6X7.7XM4	17B96=16 17B95=L16 17B95=R16 17B96=20 17B95=L20 17B95=R20	6.45 mm	12 mm	7.7 mm	M4	6 mm	Piece
17Y93=6.5X7.7XM4	17B96=16 17B95=L16 17B95=R16	6.45 mm	12 mm	7.7 mm	M4	6.5 mm	Piece
17Y93=8X8.5XM5	17B96=20 17B95=L20 17B95=R20	7.4 mm	12 mm	8.5 mm	M5	8 mm	Piece

**(2) Slotted truss head screw**

Reference number 501S32

**Technical data**

Article number	Head Ø	Length	For system width	Thread	Material	Quantity unit
501S32=M4X10X9.5	10 mm	9.5 mm	16 mm	M4	Stainless steel	Piece
501S32=M5X12X11	12 mm	11 mm	20 mm	M5	Stainless steel	Piece

**(3) Brass bushing**

Reference number 17Y17

**Technical data**

Article number	Material	Quantity unit
17Y17=8X10X4.8	Brass	Piece

**(4) Compression spring**

Reference number 513D19

**Technical data**

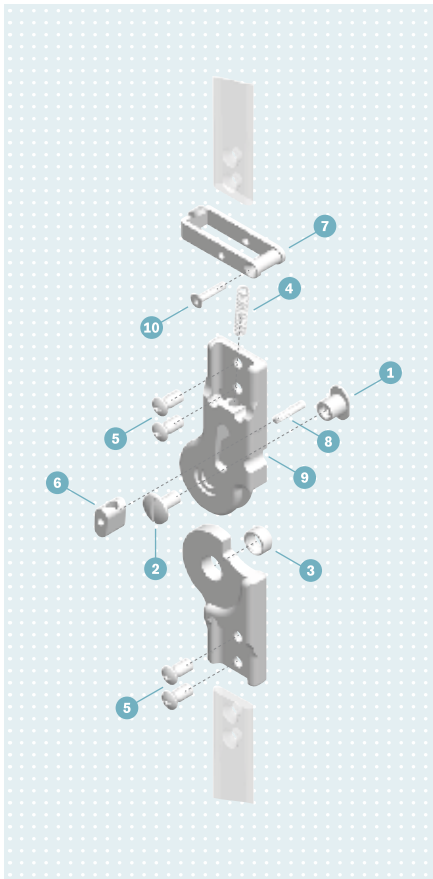
Article number	For system width	Quantity unit
513D19=0.5X3.3X14	16 mm	Piece
513D19=0.63X4X20	20 mm	Piece

**(5) Countersunk head screw (allen screw)**

Reference number 501S41

**Technical data**

Article number	For system width	Quantity unit
501S41=M3X12	16 mm	Piece
501S41=M3X14	20 mm	Piece



### (6) Wedge lock, hardened

Reference number 17Y88

#### Technical data

Article number	For system width	Quantity unit
17Y88=16	16 mm	Piece
17Y88=20	20 mm	Piece

### (7) Locking rocker

Reference number 30Z22

#### Technical data

Article number	For system width	Material	Quantity unit
30Z22=L16	16 mm	Stainless steel	Piece
30Z22=R16	16 mm	Stainless steel	Piece
30Z22=L20	20 mm	Stainless steel	Piece
30Z22=R20	20 mm	Stainless steel	Piece

### (8) Notch pin for rocking locker

Reference number 506K2

#### Technical data

Article number	For system width	Material	Quantity unit
506K2=3X12	16 mm	Stainless steel	Piece
506K2=3X14	20 mm	Stainless steel	Piece

### (9) Bushing for rocking locker

Reference number 17Y89

#### Technical data

Article number	For system width	Material	Quantity unit
17Y89=16	16 mm	Brass	Piece
17Y89=20	20 mm	Brass	Piece

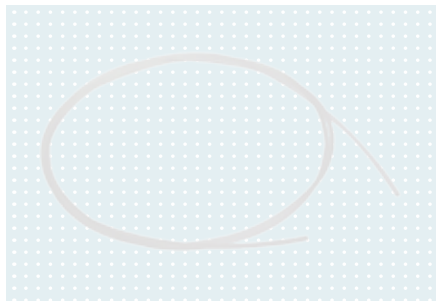
### (10) Phillips oval countersunk head screw

Reference number 501T7

#### Technical data

Article number	Head Ø	Length	Material	Quantity unit
501T7=7.5X9XM5	7.5 mm	9 mm	Stainless steel	Piece

## Spare parts for pull-release cable



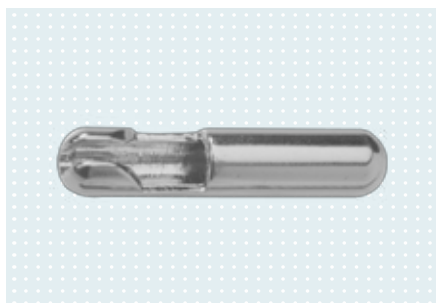
## Perlon cable

Reference number 21A18

The perlon cable has a diameter of 2 mm.

## Technical data

Article number	Diameter	Length	Order unit
21A18=2X1	2 mm	1 m	linear metres
21A18=2X5	2 mm	5 m	linear metres
21A18=2X10	2 mm	10 m	linear metres
21A18=2X25	2 mm	25 m	linear metres



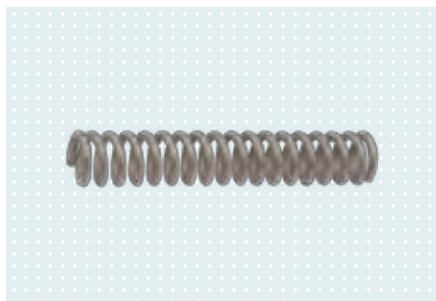
## Coupling piece

Reference number 21A7

The coupling piece is used in combination with the Perlon cord.

## Technical data

Article number	Quantity unit
21A7	Piece



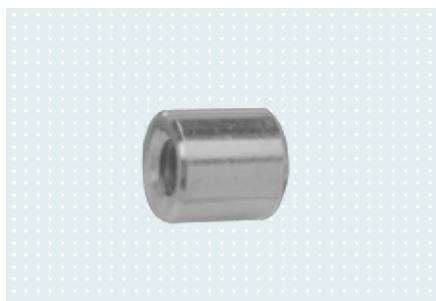
## Spring

Reference number 21A25

The spring is used for the coupling piece.

## Technical data

Article number	Quantity unit
21A25	Piece



## Threaded sleeve

Reference number 21A12

The short threaded sleeve is screwed on the 21A18=2 perlon cable (contents: two pieces).

## Technical data

Article number	Package contents	Quantity unit
21A12	2 pieces	Piece



### Accessory for 17B95, 17B96



### System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece



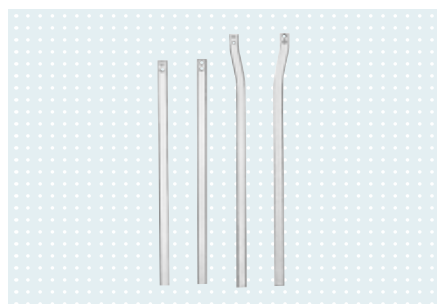
### System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece



### System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



### System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



## System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



## System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



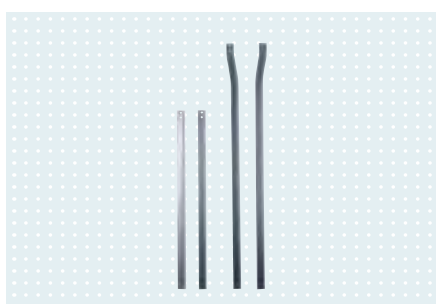
## System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



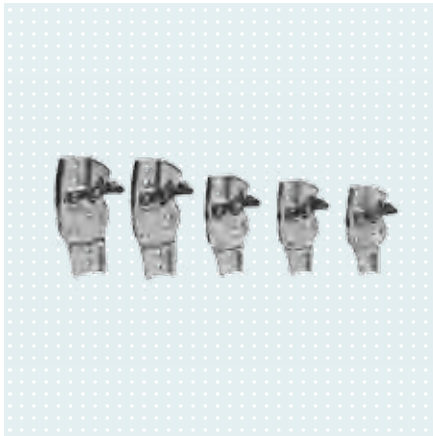
## System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set



### Unilateral knee joint

Reference number 17LK3

System knee joint with wedge lock



#### Technical data

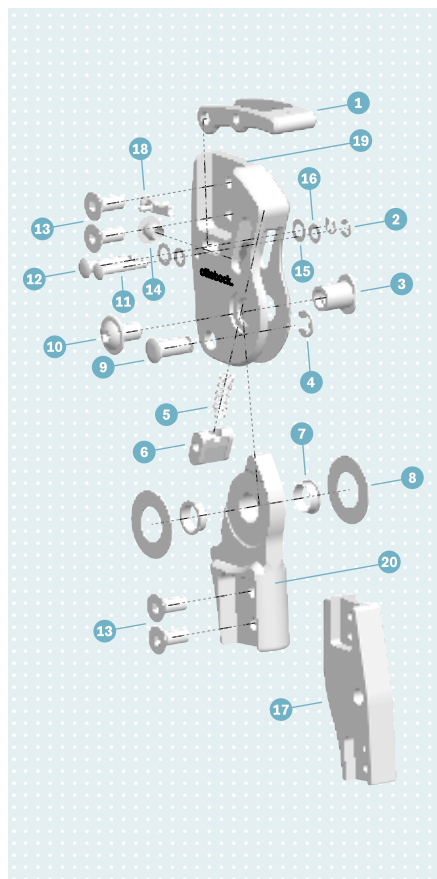
Article number	Side	System width	Max. body weight	Material	Quantity unit
17LK3=L10	left (L)	10 mm	15 kg / 25 kg*	Stainless steel	Piece
17LK3=R10	right (R)	10 mm	15 kg / 25 kg*	Stainless steel	Piece
17LK3=L10-T	left (L)	10 mm	15 kg / 25 kg*	Titanium	Piece
17LK3=R10-T	right (R)	10 mm	15 kg / 25 kg*	Titanium	Piece
17LK3=L12	left (L)	12 mm	20 kg / 40 kg*	Stainless steel	Piece
17LK3=R12	right (R)	12 mm	20 kg / 40 kg*	Stainless steel	Piece
17LK3=L12-T	left (L)	12 mm	20 kg / 40 kg*	Titanium	Piece
17LK3=R12-T	right (R)	12 mm	20 kg / 40 kg*	Titanium	Piece
17LK3=L14	left (L)	14 mm	50 kg / 80 kg*	Stainless steel	Piece
17LK3=R14	right (R)	14 mm	50 kg / 80 kg*	Stainless steel	Piece
17LK3=L14-T	left (L)	14 mm	50 kg / 80 kg*	Titanium	Piece
17LK3=R14-T	right (R)	14 mm	50 kg / 80 kg*	Titanium	Piece
17LK3=L16	left (L)	16 mm	85 kg / 120 kg*	Stainless steel	Piece
17LK3=R16	right (R)	16 mm	85 kg / 120 kg*	Stainless steel	Piece
17LK3=L16-T	left (L)	16 mm	85 kg / 120 kg*	Titanium	Piece
17LK3=R16-T	right (R)	16 mm	85 kg / 120 kg*	Titanium	Piece
17LK3=L20	left (L)	20 mm	110 kg / 160 kg*	Stainless steel	Piece
17LK3=R20	right (R)	20 mm	110 kg / 160 kg*	Stainless steel	Piece
17LK3=L20-T	left (L)	20 mm	110 kg / 160 kg*	Titanium	Piece
17LK3=R20-T	right (R)	20 mm	110 kg / 160 kg*	Titanium	Piece

#### Information material

646D789=EN_INT	Unilateral joint system information for practitioners
647F473=EN_INT	Unilateral joint system order form
646F596=EN_MASTER	Knee joints overview
646F464=ALL_INT	KAFO selection guide
646T5441=EN_INT	Technical information – Fabrication of a definitive KAFO
647G975	17LK3 instructions for use

- \* with bilateral use
- When using the product unilaterally, and in case of flexion contracture in the knee or hip > 10°, or distinct torsion or valgus/varus instabilities, or valgus/varus malpositions, or increased physical activity, the next higher size must be used!
- Use the product bilaterally if there is any ischial support

### Spare parts for 17LK3



### (1) Knee lever

Reference number 30Y265

#### Technical data

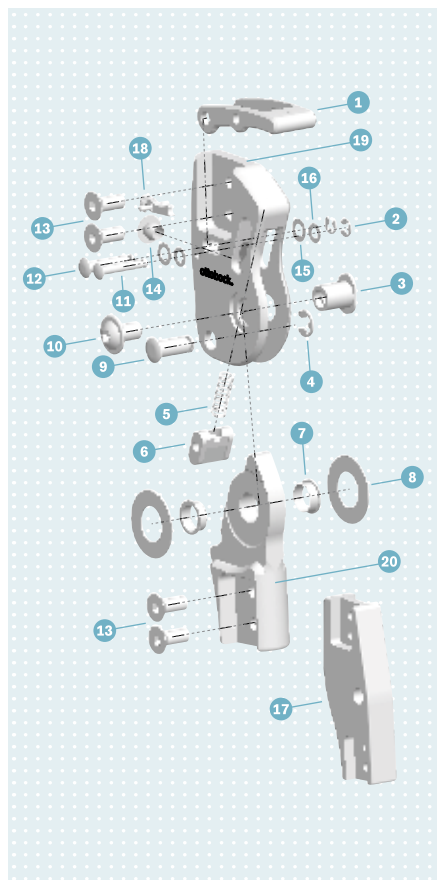
Article number	Spare part for	Quantity unit
30Y265=12-A	17LK3=L10 17LK3=L10-T 17LK3=L12 17LK3=L12-T 17LK3=R10 17LK3=R10-T 17LK3=R12 17LK3=R12-T	Piece
30Y265=14-A	17LK3=L14 17LK3=L14-T 17LK3=R14 17LK3=R14-T	Piece
30Y265=16-A	17LK3=L16 17LK3=L16-T 17LK3=R16 17LK3=R16-T	Piece
30Y265=20-A	17LK3=L20 17LK3=L20-T 17LK3=R20 17LK3=R20-T	Piece

### (2) Lock washer

Reference number 507S96

#### Technical data

Article number	Spare part for	Quantity unit
507S96=2.3	17LK3=L10 17LK3=L10-T 17LK3=L12 17LK3=L12-T 17LK3=L14 17LK3=L14-T 17LK3=L16 17LK3=L16-T 17LK3=L20 17LK3=L20-T 17LK3=R10 17LK3=R10-T 17LK3=R12 17LK3=R12-T 17LK3=R14 17LK3=R14-T 17LK3=R16 17LK3=R16-T 17LK3=R20 17LK3=R20-T	Piece



### (3) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=9X9.2XM6	17LK3=L10	9.2 mm	M6	9 mm	Piece
	17LK3=L10-T				
	17LK3=L12				
	17LK3=L12-T				
	17LK3=L14				
	17LK3=L14-T				
	17LK3=R10				
	17LK3=R10-T				
	17LK3=R12				
	17LK3=R12-T				
	17LK3=R14				
17LK3=R14-T					
17Y93=9X10.75XM6	17LK3=L16	10.75 mm	M6	9 mm	Piece
	17LK3=L16-T				
	17LK3=R16				
	17LK3=R16-T				
17Y93=9X11.75XM6	17LK3=L20	11.75 mm	M6	9 mm	Piece
	17LK3=L20-T				
	17LK3=R20				
	17LK3=R20-T				

### (4) Lock washer

Reference number 507S96

#### Technical data

Article number	Spare part for	Quantity unit
507S96=3.2	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=L14	
	17LK3=L14-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
	17LK3=R14	
	17LK3=R14-T	
	507S96=4	
17LK3=L16-T		
17LK3=L20		
17LK3=L20-T		
17LK3=R16		
17LK3=R16-T		
17LK3=R20		
17LK3=R20-T		

## (5) Compression spring

Reference number 513D83

### Technical data

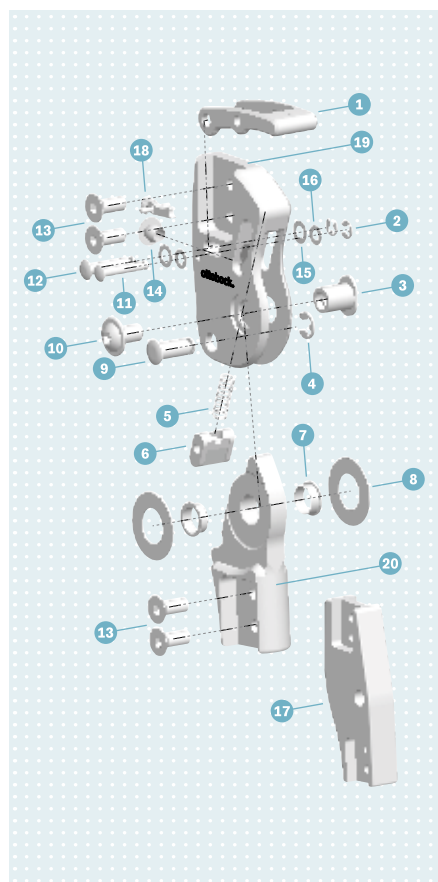
Article number	Spare part for	Quantity unit
513D83=0.7X4.3X19	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
513D83=0.75X4.6X20	17LK3=R12-T	Piece
	17LK3=L14	
	17LK3=L14-T	
	17LK3=L16	
	17LK3=L16-T	
	17LK3=L20	
	17LK3=L20-T	
	17LK3=R14	
	17LK3=R14-T	
	17LK3=R16	
	17LK3=R16-T	
	17LK3=R20	
17LK3=R20-T		

## (6) Lock wedge

Reference number 17Y156

### Technical data

Article number	Spare part for	Quantity unit
17Y156=1	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=L14	
	17LK3=L14-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
	17LK3=R14	
	17LK3=R14-T	
17Y156=2	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=L14	
	17LK3=L14-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
	17LK3=R14	
	17LK3=R14-T	
17Y156=3	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=L14	
	17LK3=L14-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
	17LK3=R14	
	17LK3=R14-T	



### (6) Lock wedge

Reference number 17Y157

#### Technical data

Article number	Spare part for	Quantity unit
17Y157=1	17LK3=L16 17LK3=L16-T 17LK3=R16 17LK3=R16-T	Piece
17Y157=2	17LK3=L16 17LK3=L16-T 17LK3=R16 17LK3=R16-T	Piece
17Y157=3	17LK3=L16 17LK3=L16-T 17LK3=R16 17LK3=R16-T	Piece

### (6) Lock wedge

Reference number 17Y158

#### Technical data

Article number	Spare part for	Quantity unit
17Y158=1	17LK3=L20 17LK3=L20-T 17LK3=R20 17LK3=R20-T	Piece
17Y158=2	17LK3=L20 17LK3=L20-T 17LK3=R20 17LK3=R20-T	Piece
17Y158=3	17LK3=L20 17LK3=L20-T 17LK3=R20 17LK3=R20-T	Piece

### (7) Bushing

Reference number 30Y87

#### Technical data

Article number	Spare part for	Quantity unit
30Y87=1	17LK3=L20 17LK3=L20-T 17LK3=R20 17LK3=R20-T	Piece
30Y87=2	17LK3=L16 17LK3=L16-T 17LK3=R16 17LK3=R16-T	Piece
30Y87=3	17LK3=L10 17LK3=L10-T 17LK3=L12 17LK3=L12-T 17LK3=L14 17LK3=L14-T 17LK3=R10 17LK3=R10-T 17LK3=R12 17LK3=R12-T 17LK3=R14 17LK3=R14-T	Piece

## (8) Bearing washers

Reference number 170Z93

### Technical data

Article number	Spare part for	Quantity unit
170Z93=1	17LK3=L16 17LK3=L16-T 17LK3=L20 17LK3=L20-T 17LK3=R16 17LK3=R16-T 17LK3=R20 17LK3=R20-T	Set

## (9) Axle

Reference number 4A101

### Technical data

Article number	Spare part for	Quantity unit
4A101=5X10.6	17LK3=L10 17LK3=L10-T 17LK3=L12 17LK3=L12-T 17LK3=L14 17LK3=L14-T 17LK3=R10 17LK3=R10-T 17LK3=R12 17LK3=R12-T 17LK3=R14 17LK3=R14-T	Piece
4A101=6X12.7	17LK3=L16 17LK3=L16-T 17LK3=R16 17LK3=R16-T	Piece
4A101=6X13.7	17LK3=L20 17LK3=L20-T 17LK3=R20 17LK3=R20-T	Piece

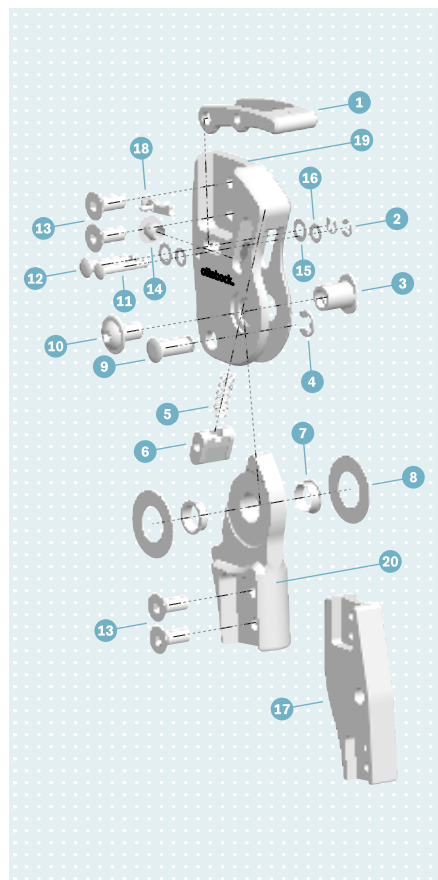
## (10) Screw with flattened half-round head

Reference number 501F9

### Technical data

Article number	Spare part for	Quantity unit
501F9=M6X8	17LK3=L10 17LK3=L10-T 17LK3=L12 17LK3=L12-T 17LK3=L14 17LK3=L14-T 17LK3=L16 17LK3=L16-T 17LK3=L20 17LK3=L20-T 17LK3=R10 17LK3=R10-T 17LK3=R12 17LK3=R12-T 17LK3=R14 17LK3=R14-T 17LK3=R16 17LK3=R16-T 17LK3=R20 17LK3=R20-T	Piece





### (11) Axle

Reference number 4A101

#### Technical data

Article number	Spare part for	Quantity unit
4A101=3.2X15.1	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=L14	
	17LK3=L14-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
	17LK3=R14	
17LK3=R14-T		
4A101=3.2X17.1	17LK3=L16	Piece
	17LK3=L16-T	
	17LK3=R16	
	17LK3=R16-T	
4A101=3.2X18.1	17LK3=L20	Piece
	17LK3=L20-T	
	17LK3=R20	
	17LK3=R20-T	

### (12) Axle

Reference number 4A101

#### Technical data

Article number	Spare part for	Quantity unit
4A101=4X15.1	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=L14	
	17LK3=L14-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
	17LK3=R14	
17LK3=R14-T		
4A101=4X17.1	17LK3=L16	Piece
	17LK3=L16-T	
	17LK3=R16	
	17LK3=R16-T	
4A101=4X18.1	17LK3=L20	Piece
	17LK3=L20-T	
	17LK3=R20	
	17LK3=R20-T	

## (13) Countersunk head Torx screw

Reference number 501S137

### Technical data

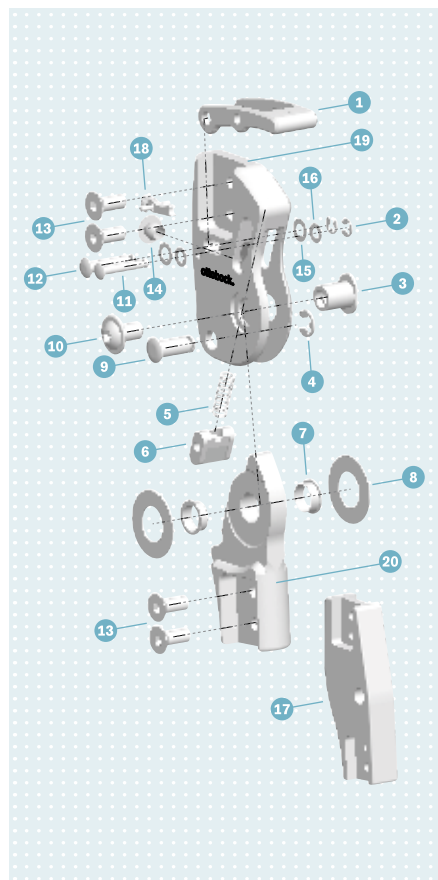
Article number	Spare part for	Quantity unit
501S137=M4X8	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
501S137=M4X10-2	17LK3=L14	Piece
	17LK3=L14-T	
	17LK3=R14	
	17LK3=R14-T	
501S137=M5X10-1	17LK3=L16	Piece
	17LK3=L16-T	
	17LK3=L20	
	17LK3=L20-T	
	17LK3=R16	
	17LK3=R16-T	
	17LK3=R20	
	17LK3=R20-T	

## (14) Protective plug

Reference number 30Y91

### Technical data

Article number	Spare part for	Quantity unit
30Y91=1	17LK3=L16	Piece
	17LK3=L16-T	
	17LK3=L20	
	17LK3=L20-T	
	17LK3=R16	
	17LK3=R16-T	
	17LK3=R20	
	17LK3=R20-T	
30Y91=3	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=L14	
	17LK3=L14-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
	17LK3=R14	
	17LK3=R14-T	



### (15, 16) Washer

Reference number 30Y267

#### Technical data

Article number	Spare part for	Quantity unit
30Y267=3.3	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=L14	
	17LK3=L14-T	
	17LK3=L16	
	17LK3=L16-T	
	17LK3=L20	
	17LK3=L20-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
	17LK3=R14	
	17LK3=R14-T	
	17LK3=R16	
17LK3=R16-T		
17LK3=R20		
17LK3=R20-T		
30Y267=4.2	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=L14	
	17LK3=L14-T	
	17LK3=L16	
	17LK3=L16-T	
	17LK3=L20	
	17LK3=L20-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
	17LK3=R14	
	17LK3=R14-T	
	17LK3=R16	
17LK3=R16-T		
17LK3=R20		
17LK3=R20-T		

### (17) Joint dummy

Reference number 30Y268

#### Technical data

Article number	Spare part for	Quantity unit
30Y268=10	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=R10	
	17LK3=R10-T	
30Y268=12	17LK3=L12	Piece
	17LK3=L12-T	
	17LK3=R12	
	17LK3=R12-T	
30Y268=14	17LK3=L14	Piece
	17LK3=L14-T	
	17LK3=R14	
	17LK3=R14-T	
30Y268=16	17LK3=L16	Piece
	17LK3=L16-T	
	17LK3=R16	
	17LK3=R16-T	
30Y268=20	17LK3=L20	Piece
	17LK3=L20-T	
	17LK3=R20	
	17LK3=R20-T	

## (18) Temporary switch

Reference number 17Y162

### Technical data

Article number	Spare part for	Quantity unit
17Y162=3	17LK3=L10	Piece
	17LK3=L10-T	
	17LK3=L12	
	17LK3=L12-T	
	17LK3=L14	
	17LK3=L14-T	
	17LK3=R10	
	17LK3=R10-T	
	17LK3=R12	
	17LK3=R12-T	
	17LK3=R14	
	17LK3=R14-T	
	17Y162=2	
17LK3=L16-T		
17LK3=R16		
17LK3=R16-T		
17Y162=1	17LK3=L20	Piece
	17LK3=L20-T	
	17LK3=R20	
	17LK3=R20-T	

## (19) Knee joint, upper part

Reference number 30X94

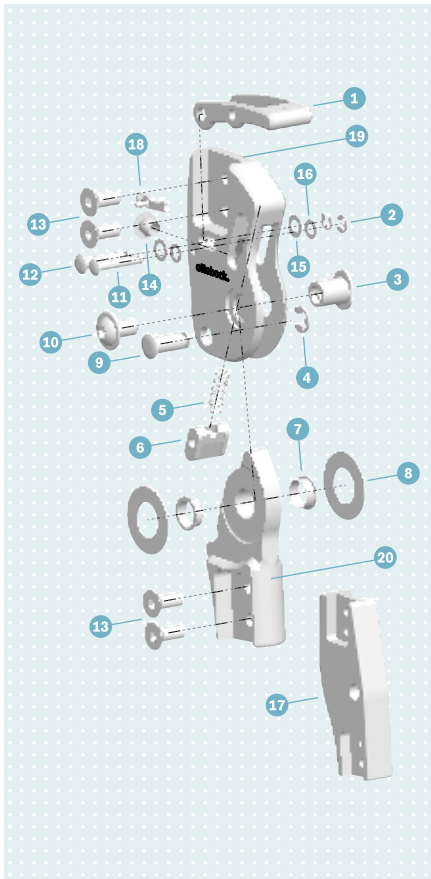
### Technical data

Article number	Spare part for	Side	Quantity unit
30X94=L10	17LK3=L10	left (L)	Piece
30X94=R10	17LK3=R10	right (R)	Piece
30X94=L10-T	17LK3=L10-T	left (L)	Piece
30X94=R10-T	17LK3=R10-T	right (R)	Piece
30X94=L12	17LK3=L12	left (L)	Piece
30X94=R12	17LK3=R12	right (R)	Piece
30X94=L12-T	17LK3=L12-T	left (L)	Piece
30X94=R12-T	17LK3=R12-T	right (R)	Piece
30X94=R14	17LK3=R14	right (R)	Piece
30X94=L14-T	17LK3=L14-T	left (L)	Piece
30X94=R14-T	17LK3=R14-T	right (R)	Piece
30X94=L16	17LK3=L16	left (L)	Piece
30X94=R16	17LK3=R16	right (R)	Piece
30X94=L16-T	17LK3=L16-T	left (L)	Piece
30X94=R16-T	17LK3=R16-T	right (R)	Piece
30X94=L20	17LK3=L20	left (L)	Piece
30X94=R20	17LK3=R20	right (R)	Piece
30X94=L20-T	17LK3=L20-T	left (L)	Piece
30X94=R20-T	17LK3=R20-T	right (R)	Piece

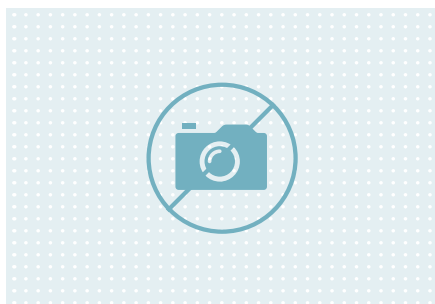
### (20) Knee joint, lower part

Reference number 30U132

#### Technical data



Article number	Spare part for	Side	Quantity unit
30U132=L10	17LK3=L10	left (L)	Piece
30U132=R10	17LK3=R10	right (R)	Piece
30U132=L10-T	17LK3=L10-T	left (L)	Piece
30U132=R10-T	17LK3=R10-T	right (R)	Piece
30U132=L12	17LK3=L12	left (L)	Piece
30U132=R12	17LK3=R12	right (R)	Piece
30U132=L12-T	17LK3=L12-T	left (L)	Piece
30U132=R12-T	17LK3=R12-T	right (R)	Piece
30U132=L14	17LK3=L14	left (L)	Piece
30U132=R14	17LK3=R14	right (R)	Piece
30U132=L14-T	17LK3=L14-T	left (L)	Piece
30U132=R14-T	17LK3=R14-T	right (R)	Piece
30U132=L16	17LK3=L16	left (L)	Piece
30U132=R16	17LK3=R16	right (R)	Piece
30U132=L16-T	17LK3=L16-T	left (L)	Piece
30U132=R16-T	17LK3=R16-T	right (R)	Piece
30U132=L20	17LK3=L20	left (L)	Piece
30U132=R20	17LK3=R20	right (R)	Piece
30U132=L20-T	17LK3=L20-T	left (L)	Piece
30U132=R20-T	17LK3=R20-T	right (R)	Piece

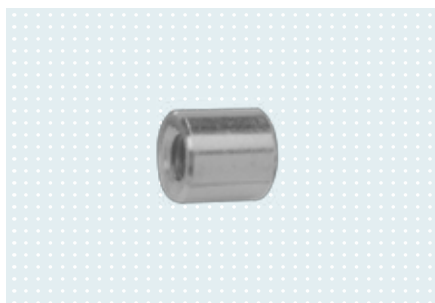


## Perlon cable 0.

Reference number 21A45

### Technical data

Article number	Spare part for
21A45=0.60	17LK3=L10
	17LK3=L10-T
	17LK3=L12
	17LK3=L12-T
	17LK3=L14
	17LK3=L14-T
	17LK3=L16
	17LK3=L16-T
	17LK3=L20
	17LK3=L20-T
	17LK3=R10
	17LK3=R10-T
	17LK3=R12
	17LK3=R12-T
	17LK3=R14
	17LK3=R14-T
	17LK3=R16
	17LK3=R16-T
	17LK3=R20
	17LK3=R20-T



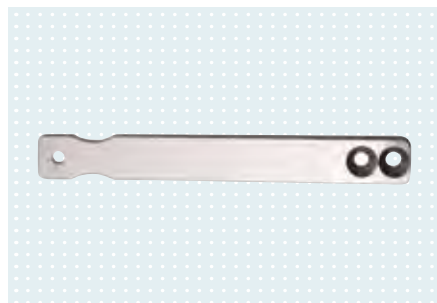
## Threaded sleeve

Reference number 21A12

### Technical data

Article number	Package contents	Quantity unit
21A12	2 pieces	Piece

### Accessory for 17LK3



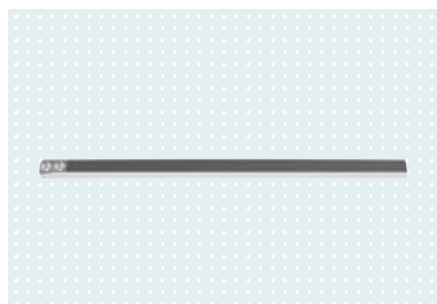
### Lamination bar

Reference number 17LS3



#### Technical data

Article number	Length	Width	Thickness	Material	Quantity unit
17LS3=10	80 mm	10 mm	5 mm bottom/3 mm top	Stainless steel	Piece
17LS3=10-T	80 mm	10 mm	5 mm bottom/3 mm top	Titanium	Piece
17LS3=12-T	80 mm	12 mm	5 mm bottom/3 mm top	Titanium	Piece
17LS3=14	100 mm	14 mm	6 mm bottom/2.5 mm top	Stainless steel	Piece
17LS3=14-T	100 mm	14 mm	6 mm bottom/2.5 mm top	Titanium	Piece
17LS3=16-T	130 mm	16 mm	6 mm bottom/3 mm top	Titanium	Piece
17LS3=20	130 mm	20 mm	6 mm bottom/3 mm top	Stainless steel	Piece
17LS3=20-T	130 mm	20 mm	6 mm bottom, 3 mm top	Titanium	Piece



### Side bar

Reference number 17LV3

Side bar for the unilateral joint system

#### Technical data

Article number	Width	Material	Quantity unit
17LV3=10	10 mm	Stainless steel	Piece
17LV3=12	12 mm	Stainless steel	Piece
17LV3=14	14 mm	Stainless steel	Piece
17LV3=16	16 mm	Stainless steel	Piece
17LV3=20	20 mm	Stainless steel	Piece
17LV3=L-16	16 mm	Stainless steel	Piece
17LV3=L-20	20 mm	Stainless steel	Piece
17LV3=R-16	16 mm	Stainless steel	Piece
17LV3=R-20	20 mm	Stainless steel	Piece

## Locked knee joints – System joints – Wedge lock – Order form unilateral joint system

Company	<input type="text"/>	Date	<input type="text"/>
Technician	<input type="text"/>	Signature	<input type="text"/>
Customer no.	<input type="text"/>		

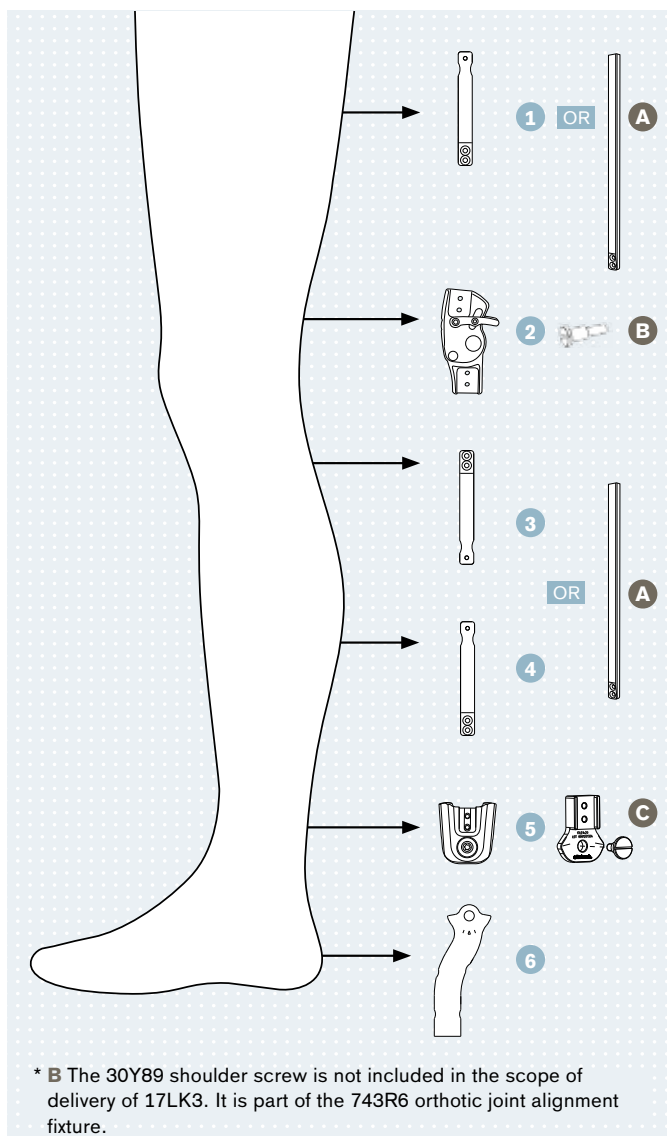
### User information

Surname, first name ..... Weight .....

Age ..... Indication .....

Side  Left  Right  Bilateral

The size chosen depends on the patient's weight and the conditions of use.



\* **B** The 30Y89 shoulder screw is not included in the scope of delivery of 17LK3. It is part of the 743R6 orthotic joint alignment fixture.

1 Lamination bar 17LS3=* OR		A Extension bar 17LV3=*	
Steel version	Titanium version	Steel version	
<input type="checkbox"/> 17LS3=10	<input type="checkbox"/> 17LS3=10-T	<input type="checkbox"/> 17LV3=10	
<input type="checkbox"/> 17LS3=12	<input type="checkbox"/> 17LS3=12-T	<input type="checkbox"/> 17LV3=12	
<input type="checkbox"/> 17LS3=14	<input type="checkbox"/> 17LS3=14-T	<input type="checkbox"/> 17LV3=14	
<input type="checkbox"/> 17LS3=16	<input type="checkbox"/> 17LS3=16-T	<input type="checkbox"/> 17LV3=16	
<input type="checkbox"/> 17LS3=20	<input type="checkbox"/> 17LS3=20-T	<input type="checkbox"/> 17LV3=20	

2 Unilateral Knee Joint 17LK3=*		Side	B Shoulder screw*
Steel version	Titanium version	L R	
<input type="checkbox"/> 17LK3=12	<input type="checkbox"/> 17LK3=12-T	<input type="checkbox"/> L <input type="checkbox"/> R	<input type="checkbox"/> 30Y89
<input type="checkbox"/> 17LK3=14	<input type="checkbox"/> 17LK3=14-T	<input type="checkbox"/> L <input type="checkbox"/> R	<input type="checkbox"/> 30Y89
<input type="checkbox"/> 17LK3=16	<input type="checkbox"/> 17LK3=16-T	<input type="checkbox"/> L <input type="checkbox"/> R	<input type="checkbox"/> 30Y89
<input type="checkbox"/> 17LK3=20	<input type="checkbox"/> 17LK3=20-T	<input type="checkbox"/> L <input type="checkbox"/> R	<input type="checkbox"/> 30Y89

3, 4 Lamination bar 17LS3=* OR		A Extension bar 17LV3=*	
Steel version	Titanium version	Steel version	
<input type="checkbox"/> 17LS3=10	<input type="checkbox"/> 17LS3=10-T	<input type="checkbox"/> 17LV3=10	
<input type="checkbox"/> 17LS3=12	<input type="checkbox"/> 17LS3=12-T	<input type="checkbox"/> 17LV3=12	
<input type="checkbox"/> 17LS3=14	<input type="checkbox"/> 17LS3=14-T	<input type="checkbox"/> 17LV3=14	
<input type="checkbox"/> 17LS3=16	<input type="checkbox"/> 17LS3=16-T	<input type="checkbox"/> 17LV3=16	
<input type="checkbox"/> 17LS3=20	<input type="checkbox"/> 17LS3=20-T	<input type="checkbox"/> 17LV3=20	

5 Unilateral Ankle Joint 17LA3N=*		C Optional lamination dummy with shoulder screw
Steel version	Titanium version	
<input type="checkbox"/> 17LA3N=10	<input type="checkbox"/> 17LA3N=10-T	<input type="checkbox"/> 17LD1N=10
<input type="checkbox"/> 17LA3N=12	<input type="checkbox"/> 17LA3N=12-T	<input type="checkbox"/> 17LD1N=12
<input type="checkbox"/> 17LA3N=14	<input type="checkbox"/> 17LA3N=14-T	<input type="checkbox"/> 17LD1N=14
<input type="checkbox"/> 17LA3N=16	<input type="checkbox"/> 17LA3N=16-T	<input type="checkbox"/> 17LD1N=16
<input type="checkbox"/> 17LA3N=20	<input type="checkbox"/> 17LA3N=20-T	<input type="checkbox"/> 17LD1N=20

6 Foot stirrup (Steel) 17LF3N=*		
<input type="checkbox"/> 17LF3N=10	<input type="checkbox"/> 17LF3N=14	<input type="checkbox"/> 17LF3N=20
<input type="checkbox"/> 17LF3N=12	<input type="checkbox"/> 17LF3N=16	



# KAFO/KO

## Locked knee joints – System joints – Wedge lock



### CarbonIQ knee joint

Reference number 17PK1

The 17PK1=\* knee joint is a locked joint made of fibre-reinforced plastic with a pull-release cable. The locking system uses the latest technology for locked joints and offers a high level of security. It can be unlocked with one hand using the pull-release cable, making it very simple to use. The lock in the joint clicks into place automatically when standing up, without the risk of trapping clothes. Medial and lateral joints are straight.



#### Technical data

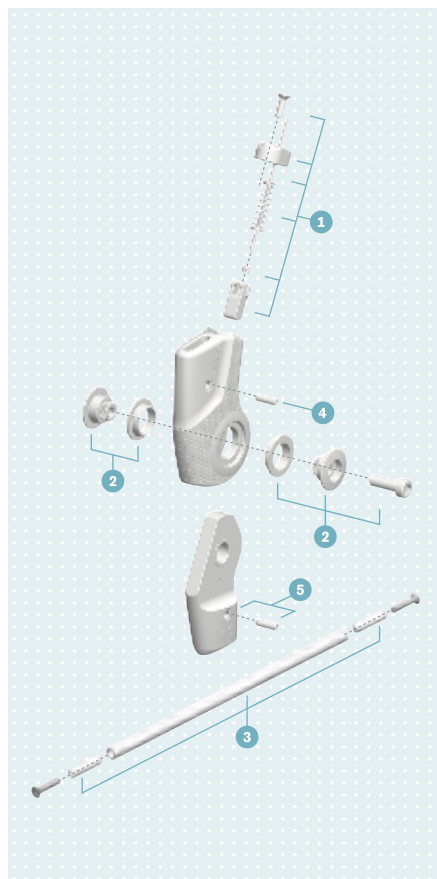
Article number	Side	Max. body weight	Quantity unit
17PK1=14	left, right	45 kg	Pair
17PK1=20	left, right	100 kg	Pair

- Attention: For waterproof walking aids, use the waterproof versions of the CarbonIQ joints (see Waterproof walking aids section).

#### Information material

646D578=EN_MASTER	17PK1/17PA1 information for practitioners
646T5=4.6EN	TI fabrication of a knee-ankle-foot orthosis using thermoplastic technology with CarbonIQ joint system
647G642=ALL_INT	17PK1 instructions for use

## Spare parts for 17PK1=14



### (1) Service set

Reference number 29PK1

#### Technical data

Article number	Scope of delivery	Quantity unit
29PK1=14	21A18=2 21A12 30Y286 30Y287 513D30=0.53X4.97X2 501S146=3.0X12	Set

### (2) Service set

Reference number 29PK2

#### Technical data

Article number	Scope of delivery	Quantity unit
29PK2=14	501S84=M5X20 509G10=14X16X4.7 30Y288 30Y285	Set

### (3) Adjustment aid

Reference number 29PK4

#### Technical data

Article number	Scope of delivery	Quantity unit
29PK4=14	1x flat head screw 1x paralleling tool 1x parallel retainer adapter	Set

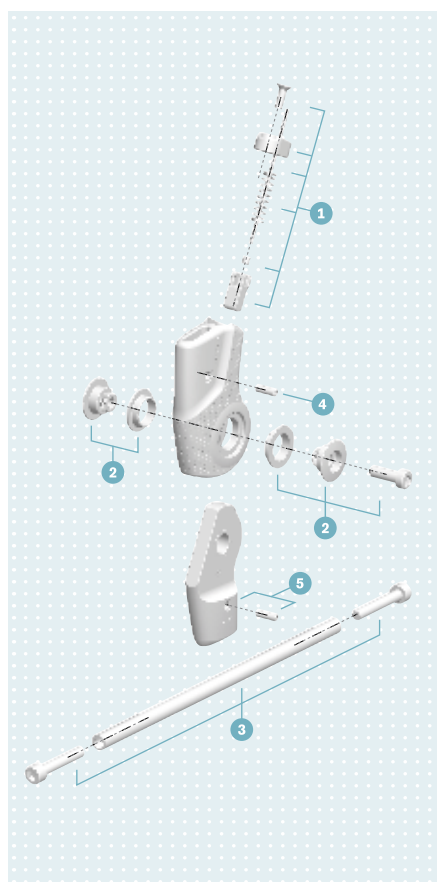
## (4, 5) Set screw

Reference number 506G21

### Technical data

Article number	Quantity unit
506G21=M4X12	Piece

## Spare parts for 17PK1=20



## (1) Service set

Reference number 29PK1

### Technical data

Article number	Scope of delivery	Quantity unit
29PK1	21A18=2 513D52=1 21A12 30Y206 30Y207 501S146=4,0X12	Set

## (2) Service set

Reference number 29PK2

### Technical data

Article number	Scope of delivery	Quantity unit
29PK2	501T39=M6X18 509G10=14X16X5 30Y209 30Y210	Set

## (3) Adjustment aid

Reference number 29PK4

### Technical data

Article number	Scope of delivery	Quantity unit
29PK4	1x cap screw 1x paralleling tool	Set

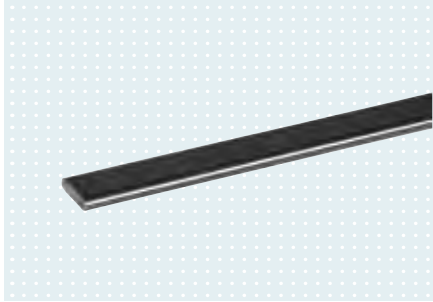
## (4, 5) Set screw

Reference number 506G3

### Technical data

Article number	Quantity unit
506G3=M4X12	Piece

## Accessory for 17PK1



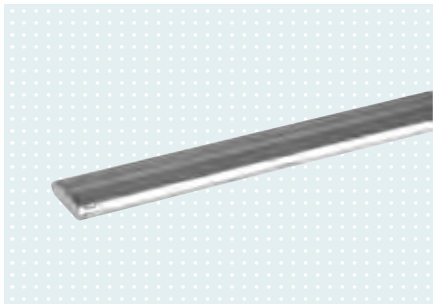
### Stainless steel profile rod

Reference number 651P4

Suitable for fabricating system bars, with rounded edges, strength of approx. 800–950 N/mm<sup>2</sup>, spot weldable

#### Technical data

Article number	Length	Width	Thickness
651P4=20	2,000 mm	20 mm	4 mm



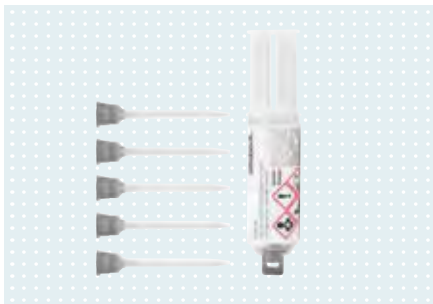
### Light metal profile bar

Reference number 605P8

Suitable for fabricating system splints, with rounded edges, strength approx. 400 N/mm<sup>2</sup>

#### Technical data

Article number	Length	Width
605P8=14	1000 mm	14 mm



### special adhesive cartridge A and B

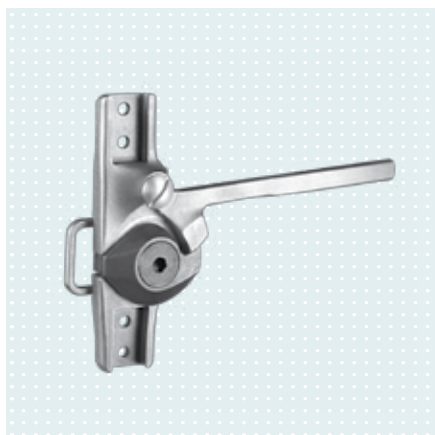
Reference number 636W28

to glue the side bars



#### Technical data

Article number	Net contents	Package contents
636W28	12.5 ml adhesive and 12.5 ml hardener	1 cartridge, 1 piston and 5 static mixers



## System knee joint

Reference number 17B44

Locked knee joint with adjustable Swiss lock for positioning orthoses  
Flexion angle adjustment up to max. 16° knee flexion and 100 kg body weight possible in gait orthoses  
Contoured medial joint, straight lateral joint, Swiss lock with flexion adjustment



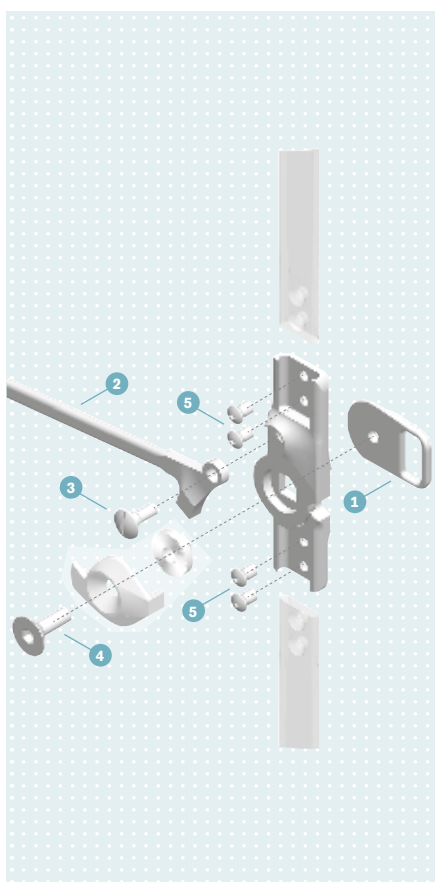
### Technical data

Article number	Side	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B44=L16	left (L)	16 mm	56 mm	38 mm	Stainless steel	Pair
17B44=R16	right (R)	16 mm	56 mm	38 mm	Stainless steel	Pair
17B44=L20	left (L)	20 mm	56 mm	38 mm	Stainless steel	Pair
17B44=R20	right (R)	20 mm	56 mm	38 mm	Stainless steel	Pair

### Information material

646F596=EN_MASTER	Knee joints overview
647G43	17B44 instructions for use

## Spare parts for 17B44



### (1) Knee cap ring plate

Reference number 17Y56

#### Technical data

Article number	Side	For system width	Material	Quantity unit
17Y56=L	left (L)	16 and 20 mm	Stainless steel	Piece
17Y56=R	right (R)	16 and 20 mm	Stainless steel	Piece

### (2) Lock lever

Reference number 17Y57

#### Technical data

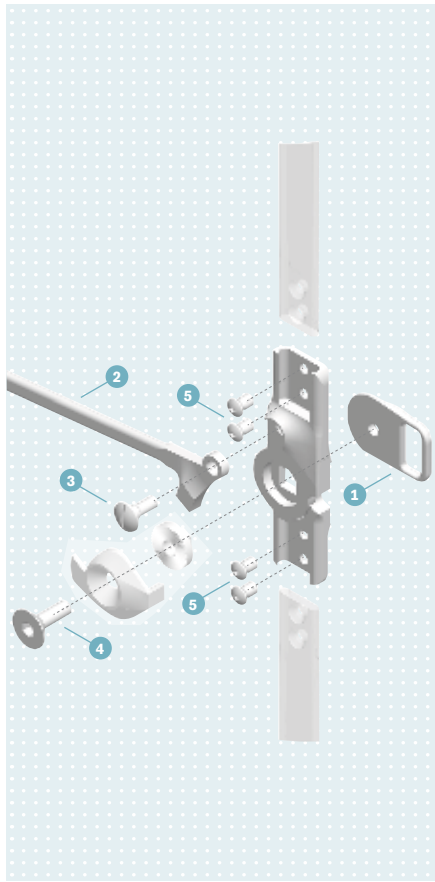
Article number	Side	For system width	Material	Quantity unit
17Y57=L	left (L)	16 and 20 mm	Stainless steel	Piece
17Y57=R	right (R)	16 and 20 mm	Stainless steel	Piece

### (3) Oval head screw

Reference number 501A23

#### Technical data

Article number	Material	Quantity unit
501A23	Stainless steel	Piece



### (4) Countersunk allen head screw

Reference number 501S55

#### Technical data

Article number	Quantity unit
501S55=M6X20X16	Piece

### (5) Phillips oval countersunk head screw

Reference number 501T7

#### Technical data

Article number	for	Head Ø	Length	Material	Quantity unit
501T7=7.5X9XM5	System side bars	7.5 mm	9 mm	Stainless steel	Piece

## Accessory for 17B44



### System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece



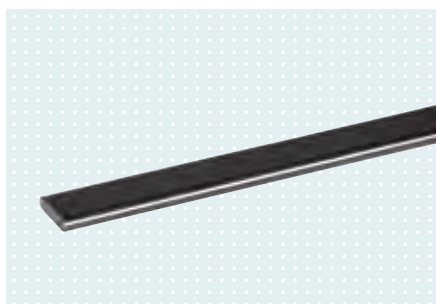
## System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece



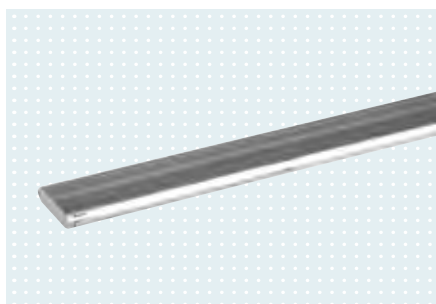
## Stainless steel profile rod

Reference number 651P4

Suitable for fabricating system bars, with rounded edges, strength of approx. 800–950 N/mm<sup>2</sup>, spot weldable

### Technical data

Article number	Length	Width	Thickness
651P4=16	2,000 mm	16 mm	4 mm
651P4=20	2,000 mm	20 mm	4 mm



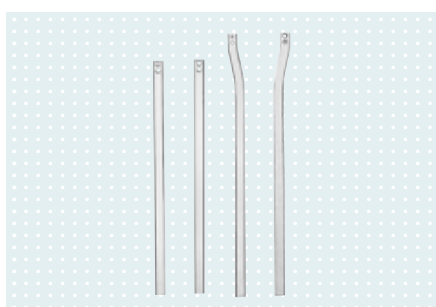
## Light metal profile bar

Reference number 605P8

Suitable for fabricating system splints, with rounded edges, strength approx. 400 N/mm<sup>2</sup>

### Technical data

Article number	Length	Width	Thickness
605P8=16	2,000 mm	16 mm	
605P8=20	2,000 mm	20 mm	



## System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



### System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



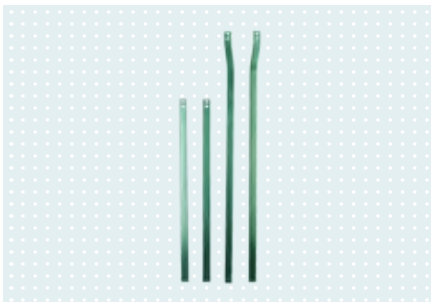
### System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



### System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



### System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



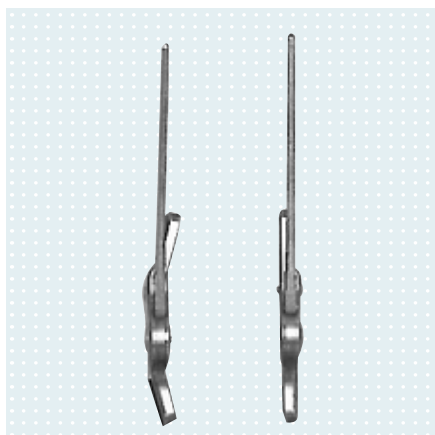
### System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set



### System knee joint

Reference number 17B23

Contoured medial joint, straight lateral joint, with centrally\* fitted covered lock, lock lever points upwards



#### Technical data

Article number	Side	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B23=L16	left (L)	16 mm	56 mm	38 mm	Stainless steel	Pair
17B23=R16	right (R)	16 mm	56 mm	38 mm	Stainless steel	Pair
17B23=L20	left (L)	20 mm	56 mm	38 mm	Stainless steel	Pair
17B23=R20	right (R)	20 mm	56 mm	38 mm	Stainless steel	Pair

\* Attention: Eccentric and centric lock lever assemblies must not be interchanged; otherwise, the reliability of the locking function cannot be guaranteed!

#### Information material

646F596=EN_MASTER	Knee joints overview
646F464=ALL_INT	KAFO selection guide
647G1527=ALL_INT	17B23 / 17B23=*K / 17B33 / 17B45 / 17B91 / 17B92 instructions for use



### System knee joint

Reference number 17B23K

Contoured medial joint, straight lateral joint, with eccentrically\* fitted covered lock, self-adjusting, short lock lever, with pull-release cable



#### Technical data

Article number	Side	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B23=L16K	left (L)	16 mm	56 mm	38 mm	Stainless steel	Pair
17B23=R16K	right (R)	16 mm	56 mm	38 mm	Stainless steel	Pair
17B23=L20K	left (L)	20 mm	56 mm	38 mm	Stainless steel	Pair
17B23=R20K	right (R)	20 mm	56 mm	38 mm	Stainless steel	Pair

\* Attention: Eccentric and centric lock lever assemblies must not be interchanged; otherwise, the reliability of the locking function cannot be guaranteed!

#### Information material

646F596=EN_MASTER	Knee joints overview
647H234	17B23 / 17B23=*K / 17B33 / 17B45 / 17B91 / 17B92 instructions for use





### System knee joint

Reference number 17B45

Medial and lateral joint are straight, with centrally\* fitted covered lock, lock lever points upwards



#### Technical data

Article number	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B45=16	16 mm	56 mm	38 mm	Stainless steel	Pair
17B45=20	20 mm	56 mm	38 mm	Stainless steel	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
647H234	17B23 / 17B23=*K / 17B33 / 17B45 / 17B91 / 17B92 instructions for use

\* Attention: Eccentric and centric lock lever assemblies must not be interchanged; otherwise, the reliability of the locking function cannot be guaranteed!



### System knee joints

Reference number 17B92

Medial joint is contoured at the bottom and straight at the top, lateral joint is straight, with centrally\* fitted covered lock, lock lever points upwards



#### Technical data

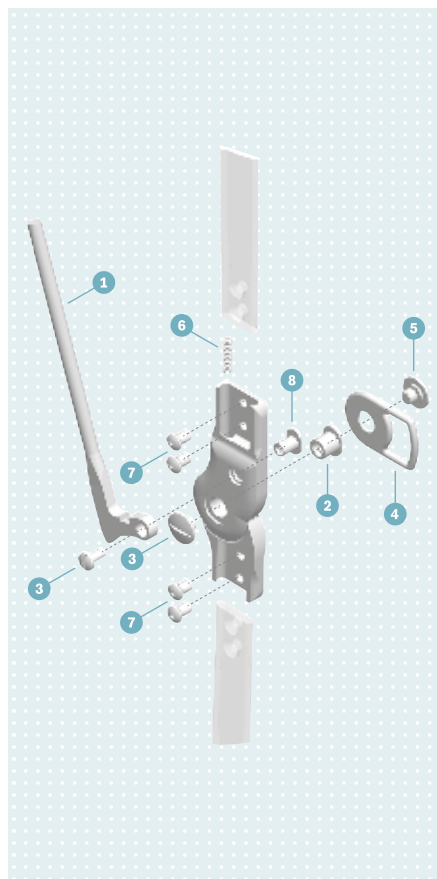
Article number	Side	System width	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B92=L16	left (L)	16 mm	56 mm	38 mm	Stainless steel	Pair
17B92=L20	left (L)	20 mm	56 mm	38 mm	Stainless steel	Pair
17B92=R16	right (R)	16 mm	56 mm	38 mm	Stainless steel	Pair
17B92=R20	right (R)	20 mm	56 mm	38 mm	Stainless steel	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
647H234	17B23 / 17B23=*K / 17B33 / 17B45 / 17B91 / 17B92 instructions for use

\* Attention: Eccentric and centric lock lever assemblies must not be interchanged; otherwise, the reliability of the locking function cannot be guaranteed!

### Spare parts for 17B23, 17B23K, 17B45, 17B92



#### (1) Short lock lever

Reference number 17Y104

##### Technical data

Article number	Material	Quantity unit
17Y104	Stainless steel	Piece

#### (1) Lock lever

Reference number 17Y20

##### Technical data

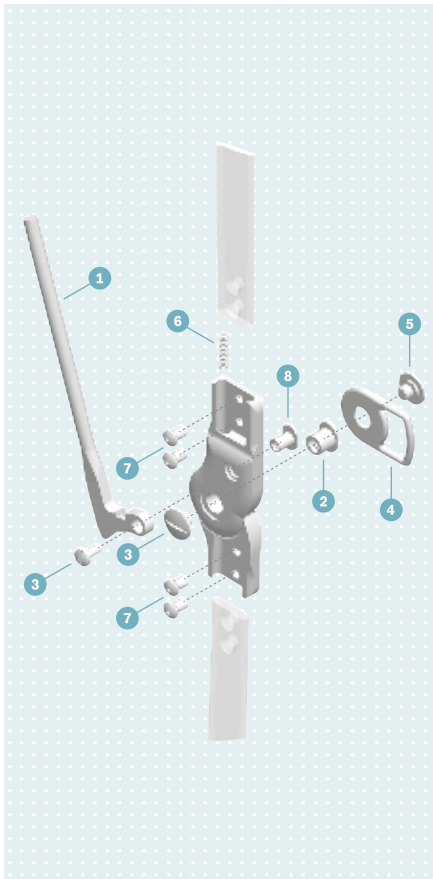
Article number	Material	Quantity unit
17Y20	Stainless steel	Piece

#### (2, 8) Bearing nut, hardened

Reference number 17Y93

##### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Attachment Ø	Quantity unit
17Y93=6X9.15XM4	17B23=L16 17B23=L20 17B23=R16 17B23=R20 17B23=L16K 17B23=L20K 17B23=R16K 17B23=R20K 17B45=16 17B45=20 17B92=L16 17B92=L20 17B92=R16 17B92=R20	7.9 mm	12 mm	9.15 mm	M4	6 mm	Piece
17Y93=6.5X9.15XM4	17B23=L16 17B23=L20 17B23=R16 17B23=R20 17B23=L16K 17B23=L20K 17B23=R16K 17B23=R20K 17B45=16 17B45=20 17B92=L16 17B92=L20 17B92=R16 17B92=R20	7.9 mm	12 mm	9.15 mm	M4	6.5 mm	Piece
17Y93=9X9.2XM6	17B23=L16 17B23=L20 17B23=R16 17B23=R20 17B23=L16K 17B23=L20K 17B23=R16K 17B23=R20K 17B45=16 17B45=20 17B92=L16 17B92=L20 17B92=R16 17B92=R20	8 mm	14 mm	9.2 mm	M6	9 mm	Piece



Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Attachment Ø	Quantity unit
17Y93=9.5X9.2XM6	17B23=L16 17B23=L20 17B23=R16 17B23=R20 17B23=L16K 17B23=L20K 17B23=R16K 17B23=R20K 17B45=16 17B45=20 17B92=L16 17B92=L20 17B92=R16 17B92=R20	8 mm	14 mm	9.2 mm	M6	9.5 mm	Piece

### (3) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	For system width	Head Ø	Length	Thread	Material	Quantity unit
501S32=M4X8X11.5	16 and 20 mm	8 mm	11.5 mm	M4	Stainless steel	Piece
501S32=M6X14X7.5	16 and 20 mm	14 mm	7.5 mm	M6	Stainless steel	Piece
501S32=M6X14X12	16 and 20 mm	14 mm	12 mm	M6	Stainless steel	Piece

### (4) Knee cap ring plate

Reference number 17Y84

#### Technical data

Article number	Accessories for	Quantity unit
17Y84	17B33=L20 17B33=R20 17B91=L20 17B91=R20 17B33=R16 17B33=L16 17B91=L16 17B91=R16	Piece

### (5) Oval head screw, slotted and partially threaded

Reference number 501A11

#### Technical data

Article number	Spare part for	Thread	Attachment Ø	Head Ø	Material	Quantity unit
501A11=14X9XM6	17B23=L16 17B23=L20 17B23=R16 17B23=R20 17B23=L16K 17B23=L20K 17B23=R16K 17B23=R20K 17B45=16 17B45=20 17B92=L16 17B92=L20 17B92=R16 17B92=R20	M6	9 mm	14 mm	Stainless steel	Piece

## (6) Compression spring

Reference number 513D19

### Technical data

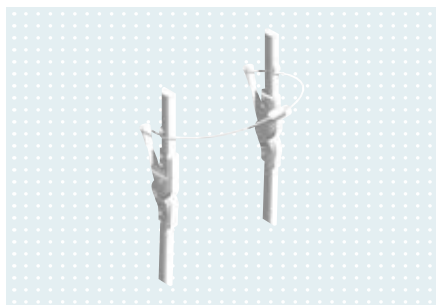
Article number	Spare part for	Quantity unit
513D19=3.8X16	17B23=L16 17B23=L20 17B23=R16 17B23=R20 17B23=L16K 17B23=L20K 17B23=R16K 17B23=R20K 17B45=16 17B45=20 17B92=L16 17B92=L20 17B92=R16 17B92=R20	Piece

## (7) Phillips oval countersunk head screw

Reference number 501T7

### Technical data

Article number	for	Head Ø	Length	Material	Quantity unit
501T7=7.5X9XM5	System side bars	7,5 mm	9 mm	Stainless steel	Piece



## Pull-release cable

Reference number 17MS30

The pull-release cable can be positioned anterior or posterior. Thanks to the change of direction, less force is required for pulling.

### Technical data

Article number	Accessories for	Quantity unit
17MS30=A	17B23=L16 17B23=L20 17B23=R16 17B23=R20 17B23=L16K 17B23=L20K 17B23=R16K 17B23=R20K 17B45=16 17B45=20 17B92=L16 17B92=L20 17B92=R16 17B92=R20	Pair

### Information material

647G303 17MS30=A instructions for use

- Side bars must be ordered separately.
- The pull-release cable can be installed in the anterior or posterior position.
- Thanks to the change of direction, less force is required for pulling.

## Accessory for 17B23, 17B23K, 17B45, 17B92



### System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece



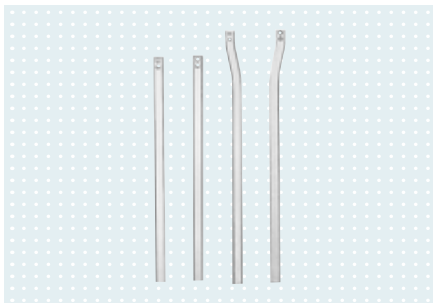
### System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece



### System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



### System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



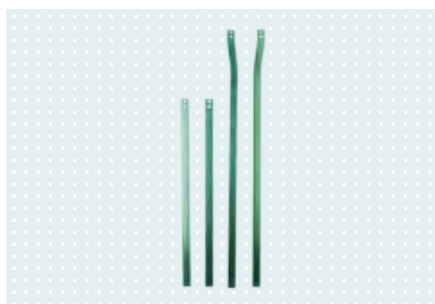
## System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



## System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



## System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



## System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set



### System knee joint

Reference number 17B91

Medial joint is contoured at the bottom and straight at the top, lateral joint is straight, with centrally\* fitted covered lock, lock lever points downwards



#### Technical data

Article number	Side	System width	Material	Quantity unit
17B91=L16	left (L)	16 mm	Stainless steel	Pair
17B91=R16	right (R)	16 mm	Stainless steel	Pair
17B91=L20	left (L)	20 mm	Stainless steel	Pair
17B91=R20	right (R)	20 mm	Stainless steel	Pair

#### Information material

646F596=EN_MASTER	Knee joints overview
647H234	17B23 / 17B23=*K / 17B33 / 17B45 / 17B91 / 17B92 instructions for use



### System knee joint

Reference number 17B33

Medial joint is contoured, lateral joint is straight, with covered lock, lock lever points downward



#### Technical data

Article number	Side	System width	Material	Quantity unit
17B33=L16	left (L)	16 mm	Stainless steel	Pair
17B33=L20	left (L)	20 mm	Stainless steel	Pair
17B33=R16	right (R)	16 mm	Stainless steel	Pair
17B33=R20	right (R)	20 mm	Stainless steel	Pair

#### Information material

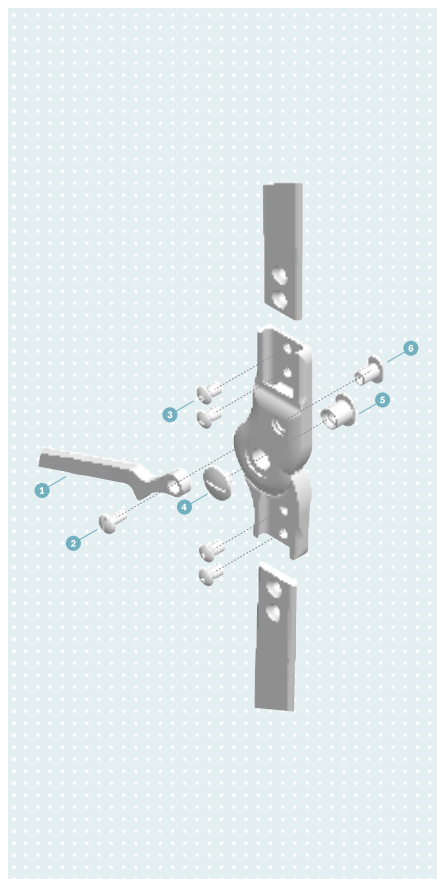
646F596=EN_MASTER	Knee joints overview
647H234	17B23 / 17B23=*K / 17B33 / 17B45 / 17B91 / 17B92 instructions for use



#### Practical recommendation 17B33

Lamination dummy for lamination resin technique: 17Y103

## Spare parts for 17B91, 17B33

**(1) Lock lever**

Reference number 17Y34

**Technical data**

Article number	Spare part for	Material	Quantity unit
17Y34	17B33=L16 17B33=L20 17B33=R16 17B33=R20 17B91=L16 17B91=L20 17B91=R16 17B91=R20	Stainless steel	Piece

**(2) Slotted truss head screw**

Reference number 501S32

**Technical data**

Article number	Spare part for	Thread	Length	Material	Quantity unit
501S32=M4X8X11.5	17B33=L16 17B33=L20 17B33=R16 17B33=R20 17B91=L16 17B91=L20 17B91=R16 17B91=R20	M4	11.5 mm	Stainless steel	Piece

**(3) Screw set, Phillips**

Reference number 17Y97

**Technical data**

Article number	Spare part for	Quantity unit
17Y97	17B33=L16 17B33=R16 17B33=L20 17B33=R20 17B91=R20 17B91=L20 17B91=R16 17B91=L16	Set

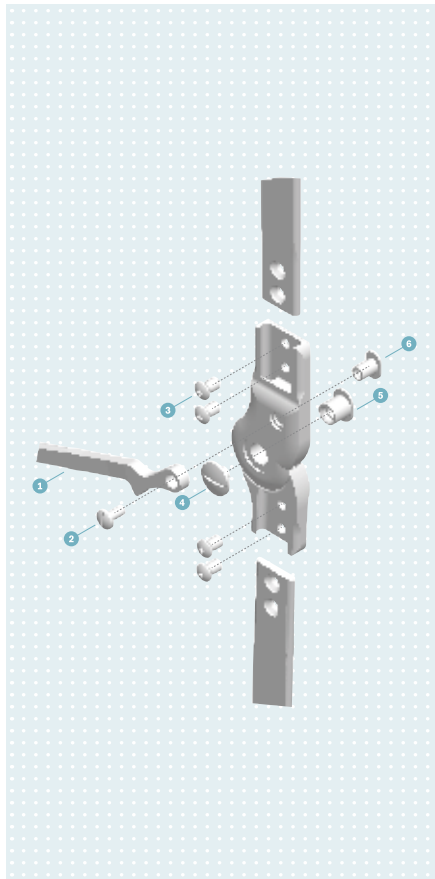
**(4) Slotted truss head screw**

Reference number 501S32

**Technical data**

Article number	Spare part for	Thread	Length	Material	Quantity unit
501S32=M6X14X12	17B33=L16 17B33=L20 17B33=R16 17B33=R20 17B91=L16 17B91=L20 17B91=R16 17B91=R20	M6	12 mm	Stainless steel	Piece





## (5) Bearing nut, hardened

Reference number 17Y93

### Technical data

Article number	Spare part for	Thread	Shank length	Attachment Ø	Quantity unit
17Y93=9X9.2XM6	17B33=L16 17B33=L20 17B33=R16 17B33=R20 17B91=L16 17B91=L20 17B91=R16 17B91=R20	M6	9.2 mm	9 mm	Piece

## (6) Bearing nut, hardened

Reference number 17Y93

### Technical data

Article number	Spare part for	Thread	Shank length	Attachment Ø	Quantity unit
17Y93=6X9.15XM4	17B33=L16 17B33=L20 17B33=R16 17B33=R20 17B91=L16 17B91=L20 17B91=R16 17B91=R20	M4	9.15 mm	6 mm	Piece

Accessory for 17B91, 17B33

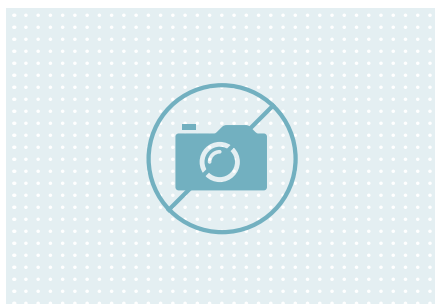


## Knee cap ring plate

Reference number 17Y84

### Technical data

Article number	Accessories for	Quantity unit
17Y84	17B33=L16 17B33=L20 17B33=R16 17B33=R20 17B91=L16 17B91=L20 17B91=R16 17B91=R20	Piece

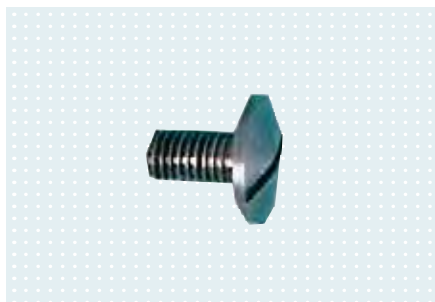


## Oval head screw, slotted and partially threaded

Reference number 501A11

### Technical data

Article number	Accessories for	Thread	Attachment Ø	Head Ø	Material	Quantity unit
501A11=14X9XM6	17B33=L16 17B33=L20 17B33=R16 17B33=R20 17B91=L16 17B91=L20 17B91=R16 17B91=R20	M6	9 mm	14 mm	Stainless steel	Piece



## Slotted truss head screw

Reference number 501S32

### Technical data

Article number	Accessories for	Thread	Length	Material	Quantity unit
501S32=M6X14X7.5	17B33=L16 17B33=L20 17B33=R16 17B33=R20 17B91=L16 17B91=L20 17B91=R16 17B91=R20	M6	7.5 mm	Stainless steel	Piece



## System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece



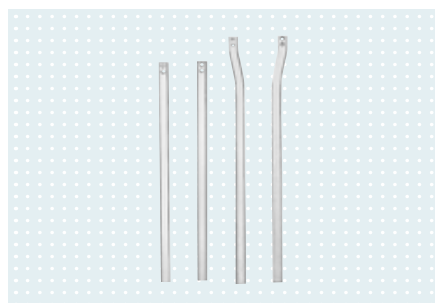
## System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece



## System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



### System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



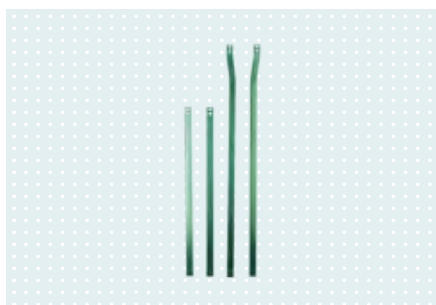
### System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



### System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



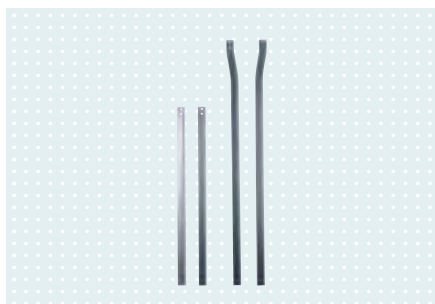
### System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



## System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set

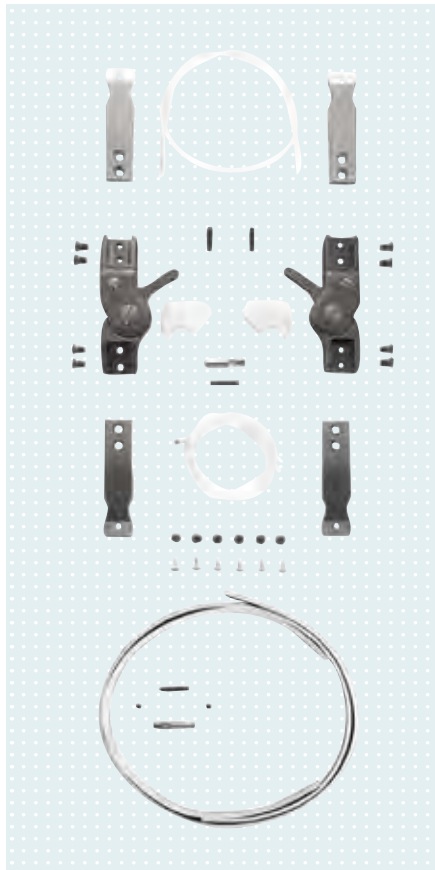


## Oval head screw, slotted and partially threaded

Reference number 501A11

### Technical data

Article number	Thread	Attachment Ø	Head Ø	Material	Quantity unit
501A11=8X3.5XM3.5	M3.5	3,5 mm	8 mm	Stainless steel	Piece
501A11=11X5XM4	M4	5 mm	11 mm	Stainless steel	Piece
501A11=12X5XM5	M5	5 mm	12 mm	Stainless steel	Piece
501A11=12X6XM5	M5	6 mm	12 mm	Stainless steel	Piece
501A11=12X7XM6	M6	7 mm	12 mm	Stainless steel	Piece
501A11=14X7XM6	M6	7 mm	14 mm	Stainless steel	Piece
501A11=14X9XM6	M6	9 mm	14 mm	Stainless steel	Piece



### System knee joint set

Reference number 17B97

The 17B97 component set includes compatible components designed to facilitate the fabrication of fibre composite lower limb orthoses. The system knee joints with a concealed lock and short lock lever are designed especially for cable pull release.



#### Technical data

Article number	Side	System width	Quantity unit
17B97=L16	left (L)	16 mm	Set
17B97=R16	right (R)	16 mm	Set
17B97=L20	left (L)	20 mm	Set
17B97=R20	right (R)	20 mm	Set

#### Information material

646F596=EN_MASTER	Knee joints overview
647G1537=ALL_INT	17B97 instructions for use

#### Scope of delivery

17B23K	System orthotic knee joint	1	Pair
17Y103	Lamination dummy for lamination resin technique	2	Piece
17Y106	PVC profile bars	2	Piece
17Y128	System lamination bar	4	Piece
21A18	Perlon cable	1	Piece
21A12	Threaded fitting, short	2	Set
21A7	Coupling piece	1	Piece
21A25	Spring	1	Piece
504H1	Double hollow rivet	6	Piece

## Accessory for 17B97



## Special adhesive

Reference number 636W18

The special adhesive is suitable for bonding wood and metal. It is particularly recommended for unilateral bar systems.



## Technical data

Article number	Net contents	Packaging
636W18	0.1 kg	Tube



## Hardener

Reference number 636W19

The hardener is suitable for use with the 636W18 special adhesive.



## Technical data

Article number	Net contents	Packaging
636W19	0.1 kg	Tube

## Mixing ratio

Special adhesive 636W18	Hardener 636W19
100	70



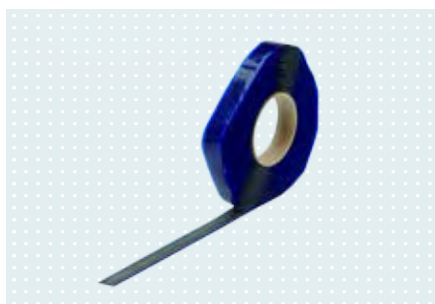
## Short lock lever

Reference number 17Y104

Lock lever, stainless steel

## Technical data

Article number	Material	Quantity unit
17Y104	Stainless steel	Piece



## Plastaband

Reference number 636K8

Plastic tape for sealing, filling and protection during work with lamination resin technique, e.g., for orthotic joints.

## Technical data

Article number	Length	Width	Thickness	Colour
636K8=20X2X10	10 m	20 mm	2 mm	Grey



## Aqualine orthotic system

The Aqualine orthotic system is a waterproof walking aid for orthosis wearers which offers the user the greatest possible safety with simultaneous freedom of movement.

- All of its components are specially designed for contact with water
- The orthosis is lightweight thanks to its high-quality carbon material
- The orthosis is easy to clean

### **i** Information for specialist dealers

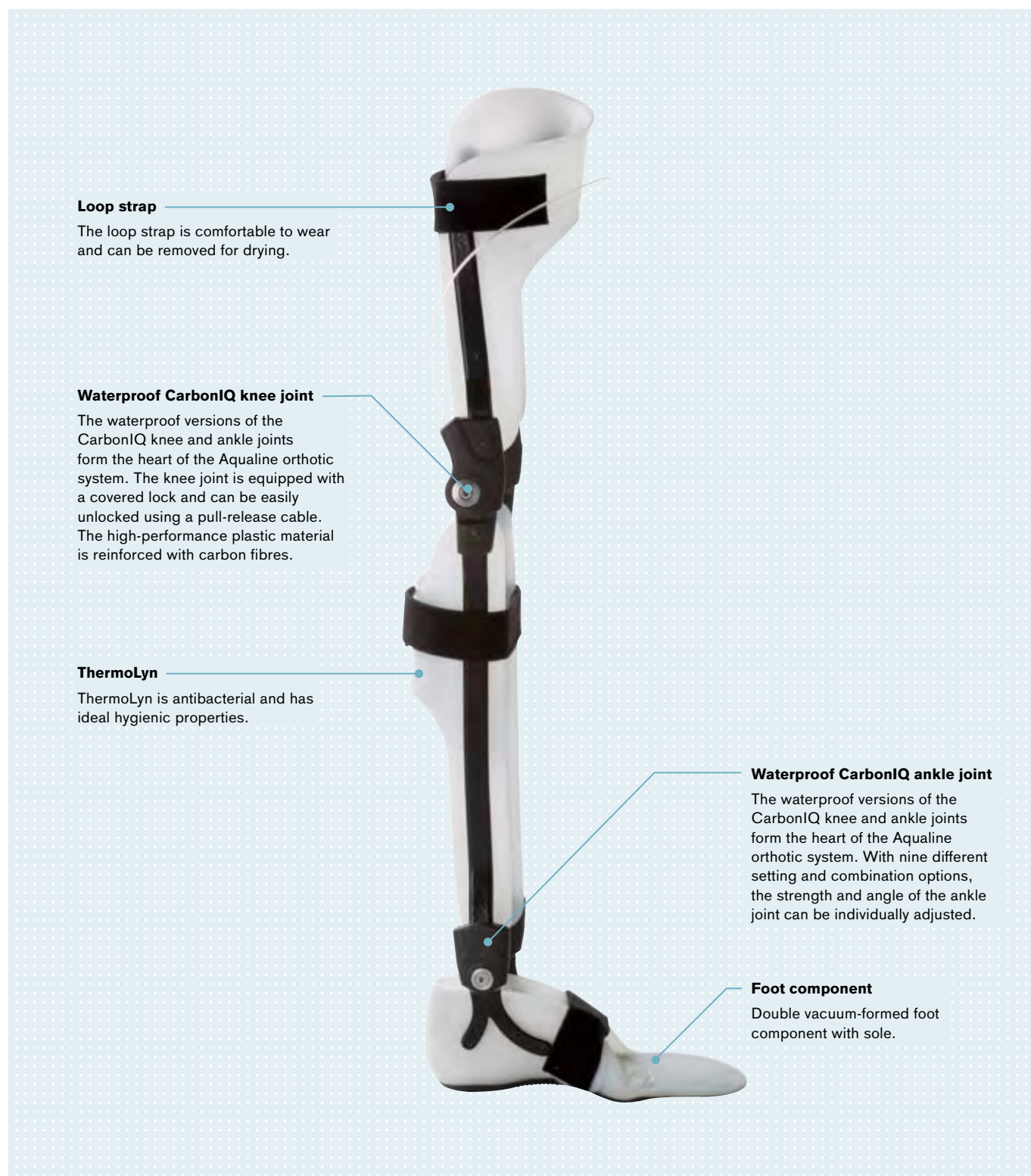
- All components in a waterproof walking aid should be waterproof and easy to wash.
- We generally recommend the use of a full-surface non-skid sole or a bathing shoe, as well as the use of a knee joint with lock.
- We recommend the use of antibacterial materials.
- The waterproof walking aid should have minimal contact with the skin.

### Information material

646D638=EN_INT	Aqualine orthotic system information for practitioners
646H12=EN_INT	Aqualine orthotic system user information
646T5=4.6EN	T1 fabrication of a knee-ankle-foot orthosis using thermoplastic technology with CarbonIQ joint system
647G798	17PK1=*-WR instructions for use
647G799	17PA1=*-WR instructions for use

## Aqualine

### The solution for wet areas





### Components of the Aqualine orthotic systems



#### Waterproof CarbonIQ knee joint

Reference number 17PK1=\*-WR

The 17PK1=\*-WR knee joint is the waterproof version of the 17PK1 CarbonIQ knee joint. It is a locked joint made of fibre-reinforced plastic with a pull-release cable. The locking system uses the latest technology for locked joints and offers a high level of security. It can be unlocked with one hand using the pull-release cable, making it very simple to use. The lock in the joint clicks into place automatically when standing up, without the risk of trapping clothes.

Contoured medial joint, straight lateral joint



#### Technical data

Article number	Side	Max. body weight	Material	Quantity unit
17PK1=L14-WR	left (L)	45 kg	Plastic reinforced with carbon fibre	Pair
17PK1=R14-WR	right (R)	45 kg	Plastic reinforced with carbon fibre	Pair
17PK1=L20-WR	left (L)	100 kg	Plastic reinforced with carbon fibre	Pair
17PK1=R20-WR	right (R)	100 kg	Plastic reinforced with carbon fibre	Pair



#### Waterproof CarbonIQ orthotic ankle joint

Reference number 17PA1=\*-WR

The 17PA1=\*-WR ankle joint is the waterproof version of the 17PA1 CarbonIQ ankle joint. The double-action joint offers the most versatile fitting by far. Various possibilities for settings and combinations allow the functions of this type of joint to be adapted to the user's requirements at any time, even if these change over the course of the fitting. Different versions to influence plantar flexion and dorsal extension are available.



#### Technical data

Article number	Max. body weight	Material	Quantity unit
17PA1=14-WR	45 kg	Plastic reinforced with carbon fibre	Pair
17PA1=20-WR	100 kg	Plastic reinforced with carbon fibre	Pair



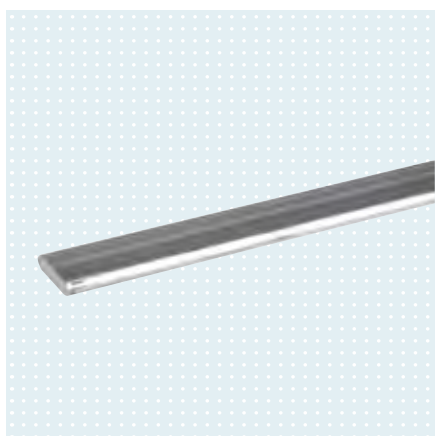
## Foot stirrup

Reference number 17PF1

Foot stirrup for 17PA1 and 17PA1=\*-WR

### Technical data

Article number	Accessories for	Material	Quantity unit
17PF1=14	17PA1=14 17PA1=14-WR	Stainless steel	Piece
17PF1	17PA1=20 17PA1=20-WR	Stainless steel	Piece



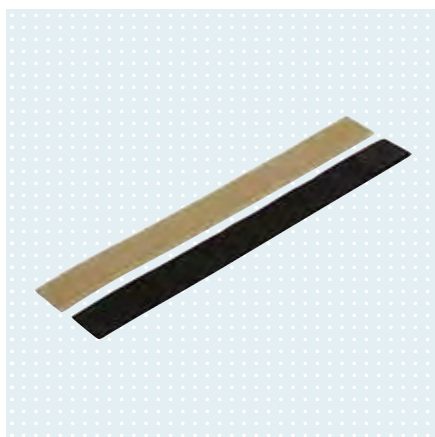
## Light metal profile bar

Reference number 605P8

Suitable for fabricating system splints, with rounded edges, strength approx. 400 N/mm<sup>2</sup>

### Technical data

Article number	Length	Width	Thickness	Quantity unit
605P8=14	1000 mm	14 mm	5 mm	Piece
605P8=20	2000 mm	20 mm	5 mm	Piece



## Hook-and-loop strap

Reference number 170Z4

### Technical data

Article number	Length	Width	Material	Colour	Quantity unit
170Z4=400-7	400 mm	40 mm	Polyamide	Black	Piece
170Z4=600-7	600 mm	40 mm	Polyamide	Black	Piece



### ThermoLyn PP-H

Reference number 616T\*

#### Technical data

Article number	Length	Width	Thickness	Colour
616T20=2000X5	2000 mm	1000 mm	5 mm	Natural colour
616T20=2000X6	2000 mm	1000 mm	6 mm	Natural colour

#### Information material

646F265=DE\_INT

Poster: thermoplastics



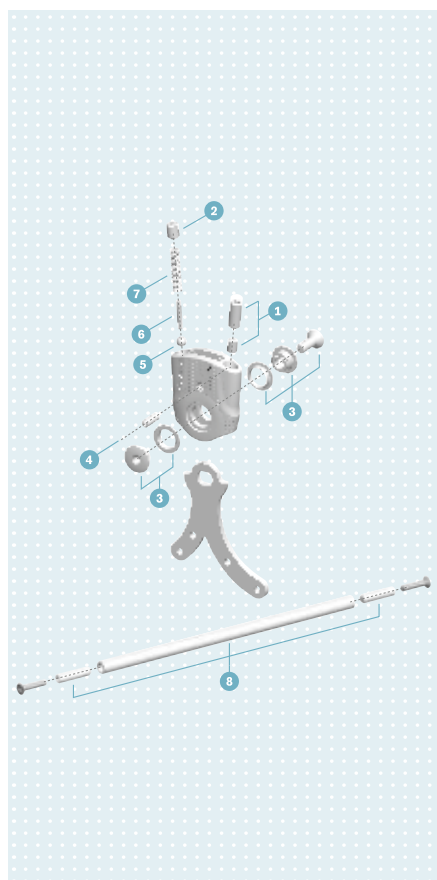
### Flat head screw

Reference number 501S84

#### Technical data

Article number	Quantity unit
501S84=M4X8	Piece

## Spare parts for 17PA1=14-WR

**(1) Set of Stops**

Reference number 30G79

**Technical data**

Article number	Scope of delivery	Quantity unit
30G79	1x set screw 1x cylinder Pin	Set

**(2) Set screw with end bore**

Reference number 30Y289

**Technical data**

Article number	Quantity unit
30Y289	Piece

**(3) Service set**

Reference number 29PA1

**Technical data**

Article number	Scope of delivery	Quantity unit
29PA1=14	1x 501S84=M6X14 1x 30Y215 1x 509G10=12X13X3 1x 30Y214	Set

**(4) Set screw**

Reference number 506G21

**Technical data**

Article number	Quantity unit
506G21=M4X12	Piece

**(5) Bearing ball**

Reference number 509Y1

**Technical data**

Article number	Quantity unit
509Y1=5.0	Piece

**(6) Cylinder Pin**

Reference number 506A8

**Technical data**

Article number	Quantity unit
506A8=2X16	Piece

### (7) Compression spring

Reference number 513D87

#### Technical data

Article number	Quantity unit
513D87=0.75X2.95X2	Piece

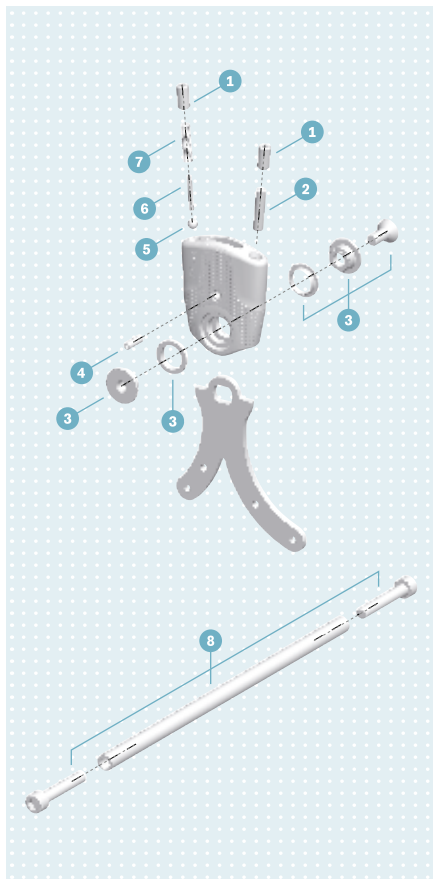
### (8) Adjustment aid

Reference number 29PK4

#### Technical data

Article number	Scope of delivery	Quantity unit
29PK4=14	1x flat head screw 1x paralleling tool 1x parallel retainer adapter	Set

## Spare parts for 17PA1=20-WR



### (1) Set screw

Reference number 506G21

#### Technical data

Article number	Quantity unit
506G21=M6X14	Piece

### (2) Stop pin

Reference number 506A27

#### Technical data

Article number	Quantity unit
506A27=5M6X20	Piece

### (3) Service set

Reference number 29PA1

#### Technical data

Article number	Scope of delivery	Quantity unit
29PA1	1x 501S84=M6X14 1x 30Y215 1x 30Y214 1x 509G10=12X13X3	Set

### (4) Set screw

Reference number 506G21

#### Technical data

Article number	Quantity unit
506G21=M4X12	Piece

## (5) Bearing ball

Reference number 509Y1

### Technical data

Article number	Quantity unit
509Y1=5.0	Piece

## (6) Stop pin (small)

Reference number 506A5

### Technical data

Article number	Quantity unit
509Y1=5.0	Piece

## (7) Compression spring

Reference number 513D18

### Technical data

Article number	Quantity unit
509Y1=5.0	Piece

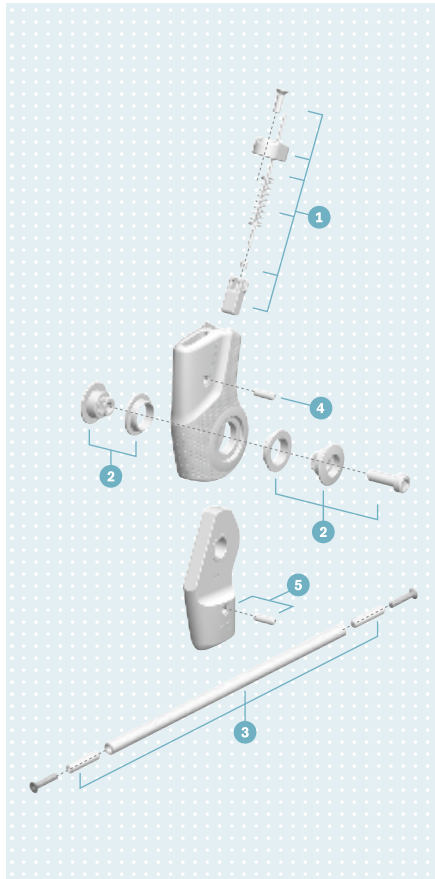
## (8) Adjustment aid

Reference number 29PK4

### Technical data

Article number	Scope of delivery	Quantity unit
29PK4	1x cap screw 1x paralleling tool	Set

### Spare parts for 17PK1=L/R14-WR



#### (1) Service set

Reference number 29PK1

##### Technical data

Article number	Scope of delivery	Quantity unit
29PK1=14	21A18=2 21A12 30Y286 30Y287 513D30=0.53X4.97X2 501S146=3.0X12	Set

#### (2) Service set

Reference number 29PK2

##### Technical data

Article number	Scope of delivery	Quantity unit
29PK2=14	501S84=M5X20 509G10=14X16X4.7 30Y288 30Y285	Set

#### (3) Adjustment aid

Reference number 29PK4

##### Technical data

Article number	Scope of delivery	Quantity unit
29PK4=14	1x flat head screw 1x paralleling tool 1x parallel retainer adapter	Set

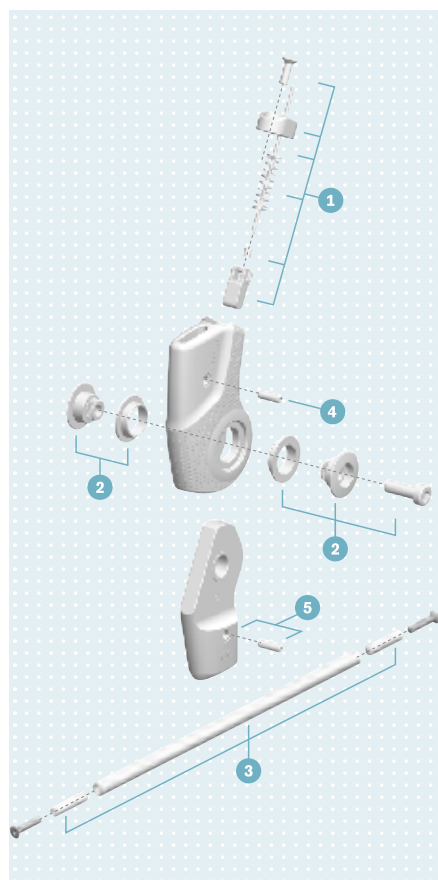
#### (4, 5) Set screw

Reference number 506G21

##### Technical data

Article number	Quantity unit
506G21=M4X12	Piece

## Spare parts for 17PK1=L/R20-WR

**(1) Service set**

Reference number 29PK1

**Technical data**

Article number	Scope of delivery	Quantity unit
29PK1	21A18=2 513D52=1 21A12 30Y206 30Y207 501S146=4.0X12	Set

**(2) Service set**

Reference number 29PK2

**Technical data**

Article number	Scope of delivery	Quantity unit
29PK2	501T39=M6X18 509G10=14X16X5 30Y209 30Y210	Set

**(3) Adjustment aid**

Reference number 29PK4

**Technical data**

Article number	Scope of delivery	Quantity unit
29PK4	1x cap screw 1x paralleling tool	Set

**(4, 5) Set screw**

Reference number 506G3


**Technical data**

Article number	Quantity unit
506G3=M4X12	Piece



## Waterproof walking aid – Aqualine orthotic system order form

Customer		Shipping address (if different from customer address)	
Customer no.	<input type="text"/>	Customer no.	<input type="text"/>
Company	<input type="text"/>	Company	<input type="text"/>
Street	<input type="text"/>	Street	<input type="text"/>
Postal code/city	<input type="text"/>	Postal code/city	<input type="text"/>
Phone number	<input type="text"/>	Phone number	<input type="text"/>
Orthotist	<input type="text"/>	Patient name	<input type="text"/>

Components for modular design	Quantity	Designation	Article number	Delivery unit
	<input type="text"/>	Loop strap	170Z4= <input type="checkbox"/> 600-7 <input type="checkbox"/> 400-7	600 mm / piece 400 mm / piece
	<input type="text"/>	Self-adhesive loop strap	623Z7= <input type="checkbox"/> W25	1 m
	<input type="text"/>	Y-hook-and-loop	170D21=38-7	Piece
	<input type="text"/>	Aluminium bar	605P8=20 605P8=14	2 m bar profile 1 m bar profile
	<input type="text"/>	Sintering powder	618T40=S	4 kg
	<input type="text"/>	Waterproof CarbonIQ knee joints	17PK1= <input type="checkbox"/> L20-WR <input type="checkbox"/> R20-WR <input type="checkbox"/> L14-WR <input type="checkbox"/> R14-WR	Pair
	<input type="text"/>	Antibacterial ThermoLyn® (PPH)	616T420= <input type="checkbox"/> 5mm thick <input type="checkbox"/> 6mm thick	2 x 1 m sheet
	<input type="text"/>	Flat head screw	501S84=M4x8	Piece
	<input type="text"/>	Waterproof CarbonIQ ankle joints	17PA1= <input type="checkbox"/> 20-WR <input type="checkbox"/> 14-WR	Pair
	<input type="text"/>	Foot stirrup	17PF1 (for size =20) 17PF1=14	Pair
	<input type="text"/>	Ottobock special adhesive	636W18 636W19	Piece

Date ..... Place ..... Signature .....





### Polycentric knee joint bars with gear drive

Reference number 7U56

Joints with interchangeable stops to limit extension as well as flexion, concave half-round bar profile, joint bars of thermoplastic synthetic material, forming temperature of 150 °C/302 °F



#### Technical data

Article number	Length from joint centre upper	Length from joint centre lower	Pivot point distance	Bar width	Joint bar thickness	Colour	Quantity unit
7U56=S	270 mm	270 mm	16 mm	25 mm	5.5 mm	Black	Pair

#### Information material

647G65

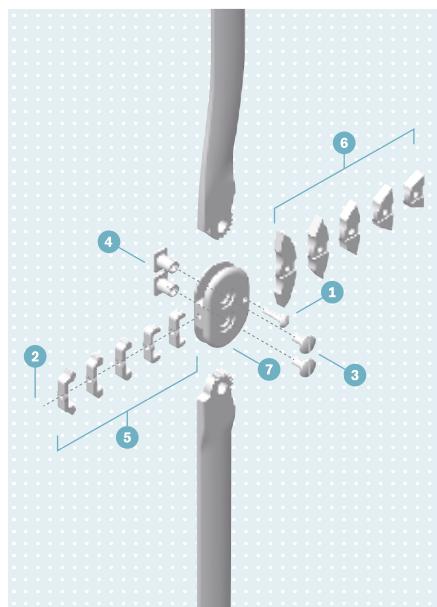
7U45/7U49/7U56/17K48  
instructions for use



#### Practical recommendation 7U56

The 743Y56=1 size 1 alignment insert is aligned with the compromise pivot point in order to align the orthotic knee joints with the compromise pivot point according to Nietert. The compromise pivot point of the polycentric gear drive joints is therefore centred between the two joint screws.

## Spare parts for 7U56



### (1) Oval head screw, slotted and partially threaded

Reference number 501A11

#### Technical data

Article number	Thread	Attachment Ø	Head Ø	Material	Quantity unit
501A11=8X3.5XM3.5	M3.5	3,5 mm	8 mm	Stainless steel	Piece

### (2) Slotted sheet metal cap screw

Reference number 501B5

#### Technical data

Article number	Quantity unit
501B5=3.5X9.5	Piece

### (3) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	Head Ø	Length	Thread	Material	Quantity unit
501S32=M5X12X13	12 mm	13 mm	M5	Stainless steel	Piece

### (4) Bearing nut

Reference number 17Y67

#### Technical data

Article number	Material	Quantity unit
17Y67	Plastic	Piece

## (5) Extension stop

Reference number 17Y74

### Technical data

Article number	Range	Material	Colour	Quantity unit
17Y74=6	6 °	Plastic	White	Piece
17Y74=10	10 °	Plastic	Green	Piece
17Y74=20	20 °	Plastic	Yellow	Piece
17Y74=30	30 °	Plastic	Red	Piece
17Y74=40	40 °	Plastic	Brown	Piece

- The colour white is the factory standard

## (6) Flexion stop

Reference number 17Y78

### Technical data

Article number	Range	Material	Colour	Quantity unit
17Y78=0	0 °	Plastic	Blue	Piece
17Y78=40	40 °	Plastic	Brown	Piece
17Y78=60	60 °	Plastic	Red	Piece
17Y78=80	80 °	Plastic	Yellow	Piece
17Y78=100	100 °	Plastic	Green	Piece

- The colour brown is the factory standard

## (7) Joint centre piece

Reference number 17Y63

### Technical data

Article number	Colour	Quantity unit
17Y63=52-S	Black	Piece



### Polycentric knee joint bars

Reference number 17K43

With gear drive, free motion joints, concave half-round bar profile, interchangeable stops to limit extension



#### Technical data

Article number	Length from joint centre upper	Length from joint centre lower	Pivot point distance	Bar width	Joint bar thickness	Joint thickness	Material	Quantity unit
17K43	340 mm	300 mm	16 mm	21 mm	2 mm	6 mm	Stainless steel	Pair

#### Information material

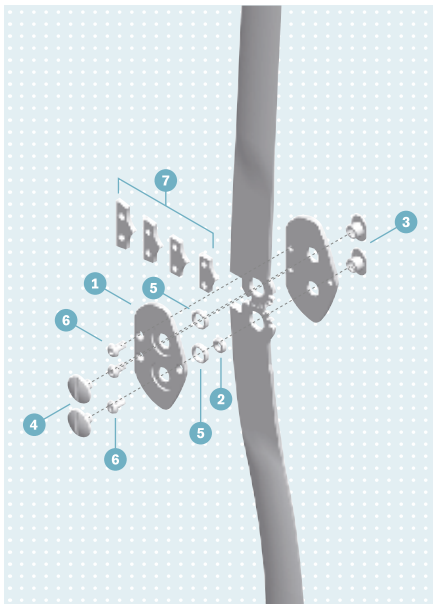
647G2

Instructions for use – system/leg bars

#### **i** Practical recommendation 17K43

The 743Y56=1 size 1 alignment insert is aligned with the compromise pivot point in order to align the orthotic knee joints with the compromise pivot point according to Nietert. The compromise pivot point of the polycentric gear drive joints is therefore centred between the two joint screws.

## Spare parts for 17K43



### (1) Joint centre piece

Reference number 17Y127

#### Technical data

Reference number	Quantity unit
17Y127	Piece

### (2), (5) Brass bushing

Reference number 17Y17

#### Technical data

Article number	Material	Quantity unit
17Y17=3.1X6X2.1	Brass	Piece
17Y17=6X8X2	Brass	Piece

### (3) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6X5XM4	17K43	4.1 mm	12 mm	5 mm	M4	6 mm	Piece

## (4) Slotted truss head screw

Reference number 501S32

### Technical data

Article number	Head Ø	Length	Thread	Material	Quantity unit
501S32=M4X12X8	12 mm	8 mm	M4	Stainless steel	Piece

## (6) Oval head screw

Reference number 501S42

### Technical data

Article number	Quantity unit
501S42=M6X18	Piece

## (7) Extension stop

Reference number 17Y90

### Technical data

Article number	Flexion angle	Material	Quantity unit
17Y90=6	6 °	Stainless steel	Piece
17Y90=10	10 °	Stainless steel	Piece
17Y90=20	20 °	Stainless steel	Piece
17Y90=30	30 °	Stainless steel	Piece

- The 6° extension angle is the factory standard



### Polycentric knee joint bars

Reference number 17K45

With gear drive, joints with interchangeable stops to limit extension as well as flexion, concave half-round bar profile



#### Technical data

Article number	Length from joint centre upper	Length from joint centre lower	Pivot point distance	Bar width	Joint bar thickness	Joint thickness	Material	Quantity unit
17K45	340 mm	300 mm	16 mm	21 mm	2 mm	6 mm	Stainless steel	Pair

#### Information material

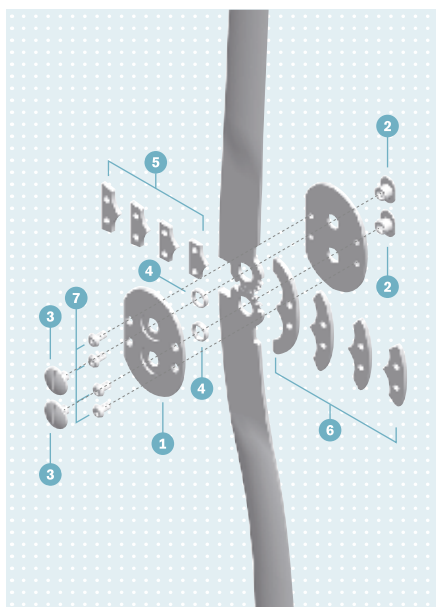
647G2

Instructions for use – system/leg bars

#### **i** Practical recommendation 17K45

The 743Y56=1 size 1 alignment insert is aligned with the compromise pivot point in order to align the orthotic knee joints with the compromise pivot point according to Nietert. The compromise pivot point of the polycentric gear drive joints is therefore centred between the two joint screws.

## Spare parts for 17K45



### (1) Joint centre piece

Reference number 17Y92

#### Technical data

Reference number	Quantity unit
17Y92	Piece

### (2) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6X5XM4	17K45	4.1 mm	12 mm	5 mm	M4	6 mm	Piece

### (3) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	Head Ø	Material	Quantity unit
501S32=M4X12X8	12 mm	Stainless steel	Piece

### (4) Brass bushing

Reference number 17Y17

#### Technical data

Article number	Quantity unit
17Y17=6X8X2	Piece

## (5) Extension stop

Reference number 17Y90

### Technical data

Article number	Range	Material	Quantity unit
17Y90=6	6 °	Stainless steel	Piece
17Y90=10	10 °	Stainless steel	Piece
17Y90=20	20 °	Stainless steel	Piece
17Y90=30	30 °	Stainless steel	Piece

- The 6° extension angle is the factory standard

## (6) Flexion stop

Reference number 17Y91

### Technical data

Article number	Range	Material	Quantity unit
17Y91=0	0 °	Stainless steel	Piece
17Y91=60	60	Stainless steel	Piece
17Y91=80	80 °	Stainless steel	Piece
17Y91=100	100 °	Stainless steel	Piece

- The 100° flexion angle is the factory standard

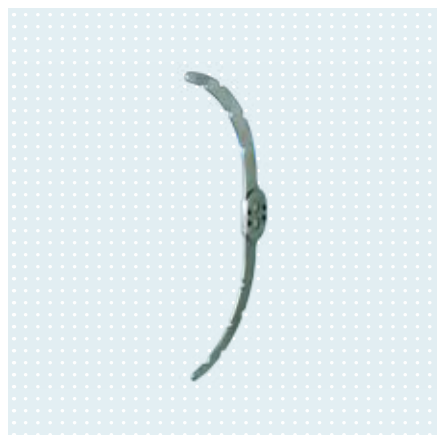
## (7) Oval head screw

Reference number 501S42

### Technical data

Article number	Quantity unit
501S42=M6X18	Piece





### Information material

647G2

Instructions for use –  
system/leg bars

## Polycentric knee joint bars, short

Reference number 17K46

With gear drive, joints with interchangeable stops to limit extension as well as flexion, upper and lower bars are curved and notched, for embedding into laminates and thermo-plastic synthetic materials



### Technical data

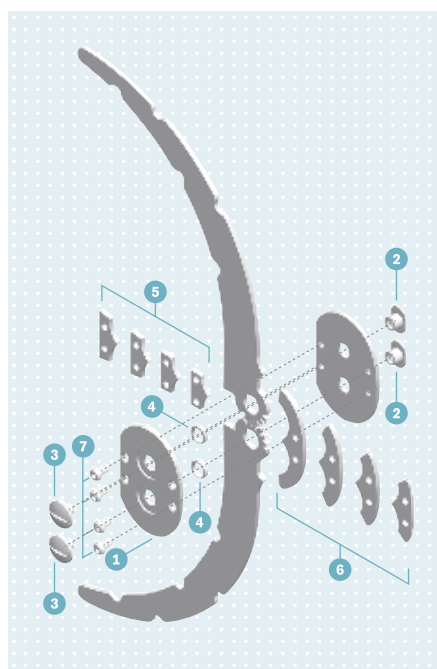
Article number	Length from joint centre upper	Length from joint centre lower	Pivot point distance	Bar width	Joint bar thickness	Joint thickness	Material	Quantity unit
17K46	340 mm	300 mm	16 mm	21 mm	2 mm	6 mm	Stainless steel	Pair



### Practical recommendation 17K46

The 743Y56=1 size 1 alignment insert is aligned with the compromise pivot point in order to align the orthotic knee joints with the compromise pivot point according to Nietert. The compromise pivot point of the polycentric gear drive joints is therefore centred between the two joint screws.

## Spare parts for 17K46



### (1) Joint centre piece

Reference number 17Y92

#### Technical data

Reference number	Quantity unit
17Y92	Piece

### (2) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6X5XM4	17K46	4.1 mm	12 mm	5 mm	M4	6 mm	Piece

### (3) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	Head Ø	Material	Quantity unit
501S32=M4X12X8	12 mm	Stainless steel	Piece

### (4) Brass bushing

Reference number 17Y17

#### Technical data

Article number	Quantity unit
17Y17=6X8X2	Piece

## (5) Extension stop

Reference number 17Y90

### Technical data

Article number	Range	Material	Quantity unit
17Y90=6	6 °	Stainless steel	Piece
17Y90=10	10 °	Stainless steel	Piece
17Y90=20	20 °	Stainless steel	Piece
17Y90=30	30 °	Stainless steel	Piece

- The 6° extension angle is the factory standard

## (6) Flexion stop

Reference number 17Y91

### Technical data

Article number	Range	Material	Quantity unit
17Y91=0	0 °	Stainless steel	Piece
17Y91=60	60	Stainless steel	Piece
17Y91=80	80 °	Stainless steel	Piece
17Y91=100	100 °	Stainless steel	Piece

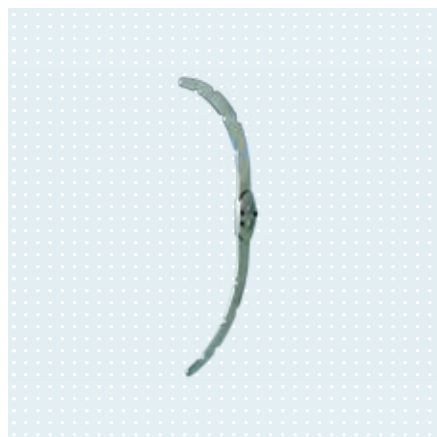
- The 100° flexion angle is the factory standard

## (7) Oval head screw

Reference number 501S42

### Technical data

Article number	Quantity unit
501S42=M6X18	Piece



### Information material

647G2

Instructions for use –  
system/leg bars

## Polycentric knee joint bars, short

Reference number 17K47

With gear drive, free motion joints, upper and lower bars are curved and notched, for embedding into laminate and thermoplastic synthetic materials, interchangeable stops to limit extension



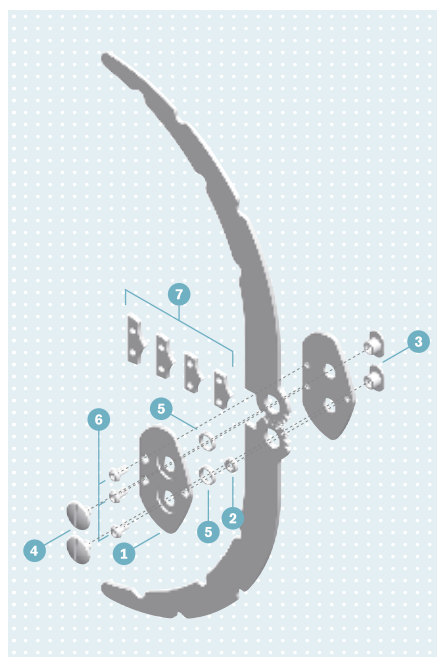
### Technical data

Article number	Length from joint centre upper	Length from joint centre lower	Pivot point distance	Bar width	Joint bar thickness	Joint thickness	Material	Quantity unit
17K47	340 mm	300 mm	16 mm	21 mm	2 mm	6 mm	Stainless steel	Pair

### **i** Practical recommendation 17K47

The 743Y56=1 size 1 alignment insert is aligned with the compromise pivot point in order to align the orthotic knee joints with the compromise pivot point according to Nietert. The compromise pivot point of the polycentric gear drive joints is therefore centred between the two joint screws.

## Spare parts for 17K47



### (1) Joint centre piece

Reference number 17Y127

#### Technical data

Reference number	Quantity unit
17Y127	Piece

### (2), (5) Brass bushing

Reference number 17Y17

#### Technical data

Article number	Material	Quantity unit
17Y17=3.1X6X2.1	Brass	Piece
17Y17=6X8X2	Brass	Piece

### (3) Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=6X5XM4	17K47	4.1 mm	12 mm	5 mm	M4	6 mm	Piece

## (4) Slotted truss head screw

Reference number 501S32

### Technical data

Article number	Head Ø	Material	Quantity unit
501S32=M4X12X8	12 mm	Stainless steel	Piece

## (6) Oval head screw

Reference number 501S42

### Technical data

Article number	Quantity unit
501S42=M6X18	Piece

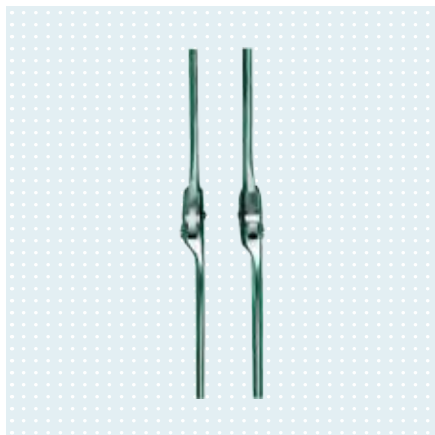
## (7) Extension stop

Reference number 17Y90

### Technical data

Article number	Range	Material	Quantity unit
17Y90=6	6 °	Stainless steel	Piece
17Y90=10	10 °	Stainless steel	Piece
17Y90=20	20 °	Stainless steel	Piece
17Y90=30	30 °	Stainless steel	Piece

- The 6° extension angle is the factory standard



### Lower leg joint bars, light duty

Reference number 7U30

Joints with ball bearing, concave half-round bar profile, forged upper and lower joint bars  
The head of the inner joint bar is offset to the outside, the head of the outer joint bar to the inside

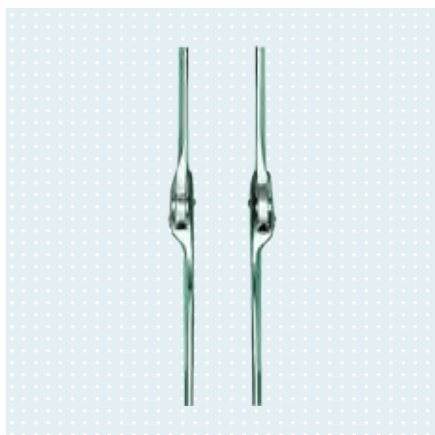
#### Technical data

Article number	Side	Milled head	Upper section length	Lower section length	Bar width	Joint bar thickness	Material	Quantity unit
7U30=L	left (L)	24x4 mm	340 mm	150 mm	20 mm	2.3 mm	Stainless steel	Pair
7U30=R	right (R)	24x4 mm	340 mm	150 mm	20 mm	2.3 mm	Stainless steel	Pair

#### Information material

647G2

Instructions for use –  
system/leg bars



### Lower leg joint bars, light duty

Reference number 7U33

Joints with ball bearing, concave half-round bar profile, forged upper and lower joint bar  
Similar to 7U30 design, but with heads of both bars offset outside

#### Technical data

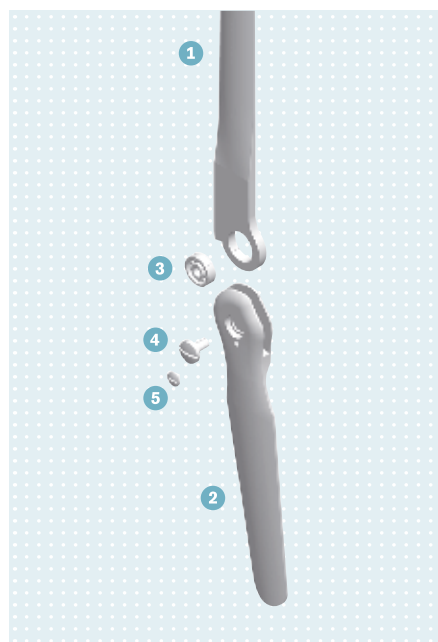
Article number	Milled head	Upper section length	Lower section length	Bar width	Joint bar thickness	Material	Quantity unit
7U33	24x4 mm	340 mm	150 mm	20 mm	2.3 mm	Stainless steel	Pair

#### Information material

647G2

Instructions for use –  
system/leg bars

## Spare parts for 7U30, 7U33

**(1) Knee joint bar upper part**

Reference number 7A5

**Technical data**

Article number	Spare part for	Material	Quantity unit
7A5=L	7U30=R 7U30=L 7U33	Stainless steel	Piece
7A5=R	7U30=R 7U30=L 7U33	Stainless steel	Piece

**(2) Leg joint bar, lower section**

Reference number 7B5

**Technical data**

Article number	Spare part for	Material	Quantity unit
7B5=LA	7U30=L	Stainless steel	Piece
7B5=LI	7U30=L 7U33	Stainless steel	Piece
7B5=RA	7U30=R	Stainless steel	Piece
7B5=RI	7U30=R 7U33	Stainless steel	Piece

**(3) Ball bearing**

Reference number 509K11

**Technical data**

Article number	Quantity unit
509K11=5X16X4	Piece

**(4) Oval head screw, slotted and partially threaded**

Reference number 501A6

**Technical data**

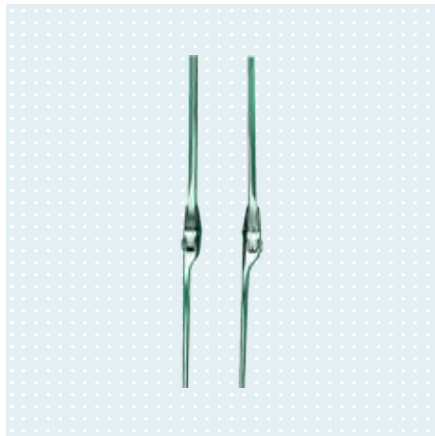
Article number	Material	Quantity unit
501A6=4X5XM5	Stainless steel	Piece

**(5) Slotted oval head screw (lock screw)**

Reference number 501S22

**Technical data**

Article number	Spare part for	Material	Quantity unit
501S22=8XM3.5	7U30=L 7U30=R 7U33	Stainless steel	Piece



### Information material

647G2

Instructions for use –  
system/leg bars

## Lower leg joint bars, light duty

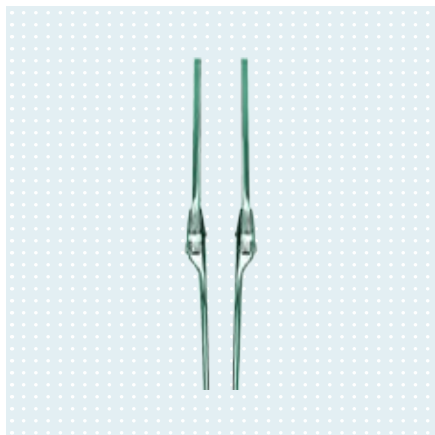
Reference number 7U32

Joints with ball bearing, joint centre shifted in the posterior direction, concave half-round bar profile, forged upper and lower joint bars

The head of the inner joint bar is offset to the outside, the head of the outer joint bar to the inside

### Technical data

Article number	Side	Milled head	Upper section length	Lower section length	Bar width	Joint bar thickness	Material	Quantity unit
7U32=L	left (L)	24x4 mm	340 mm	150 mm	20 mm	2.3 mm	Stainless steel	Pair
7U32=R	right (R)	24x4 mm	340 mm	150 mm	20 mm	2.3 mm	Stainless steel	Pair



### Information material

647G2

Instructions for use –  
system/leg bars

## Lower leg joint bars, light duty

Reference number 7U42

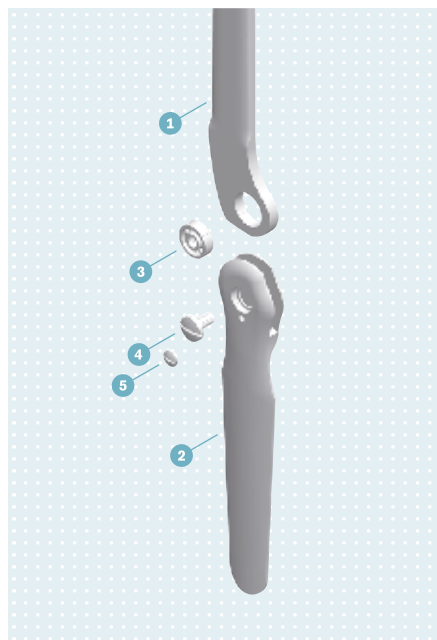
Joints with ball bearing, joint centre shifted in the posterior direction, concave half-round bar profile, forged upper and lower joint bars

Similar to 7U32 design, but with heads of both bars offset outside

### Technical data

Article number	Milled head	Upper section length	Lower section length	Bar width	Joint bar thickness	Material	Quantity unit
7U42	24x4 mm	340 mm	150 mm	20 mm	2.3 mm	Stainless steel	Pair

## Spare parts for 7U32, 7U42

**(1) Leg joint bar, upper section**

Reference number 7A6

**Technical data**

Article number	Spare part for	Material	Quantity unit
7A6=L	7U32=L 7U42	Stainless steel	Piece
7A6=R	7U32=R 7U42	Stainless steel	Piece

**(2) Leg joint bar, lower section**

Reference number 7B5

**Technical data**

Article number	Spare part for	Material	Quantity unit
7B5=LA	7U32=L	Stainless steel	Piece
7B5=LI	7U32=L 7U42	Stainless steel	Piece
7B5=RA	7U32=R	Stainless steel	Piece
7B5=RI	7U32=R 7U42	Stainless steel	Piece

**(3) Ball bearing**

Reference number 509K11

**Technical data**

Article number	Quantity unit
509K11=5X16X4	Piece

**(4) Oval head screw, slotted and partially threaded**

Reference number 501A6

**Technical data**

Article number	Material	Quantity unit
501A6=4X5XM5	Stainless steel	Piece

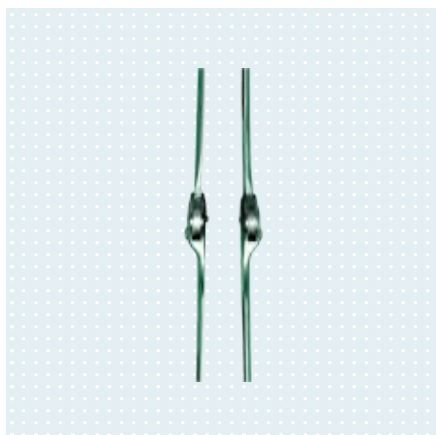
**(5) Slotted oval head screw (lock screw)**

Reference number 501S22

**Technical data**

Article number	Spare part for	Material	Quantity unit
501S22=8XM3.5	7U32=L 7U32=R 7U42	Stainless steel	Piece





### Lower leg joint bars, light duty

Reference number 7U43

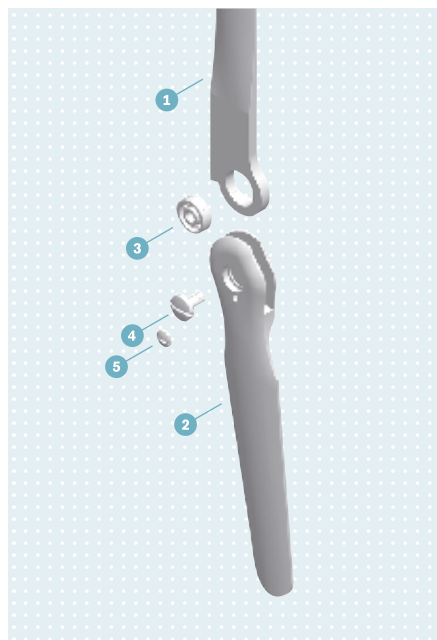
Joint with ball bearing, concave half-round bar profile, forged upper and lower joint bar sections

Heads of inner and outer joint bars are offset outside

#### Technical data

Article number	Milled head	Upper section length	Lower section length	Bar width	Joint bar thickness	Material	Quantity unit
7U43	24x5 mm	410 mm	150 mm	22 mm	2.5 mm	Orthopaedic steel	Pair

## Spare parts for 7U43

**(1) Leg joint bar, upper section**

Reference number 7A3

**Technical data**

Article number	Spare part for	Material	Quantity unit
7A3=L	7U43	Orthopaedic steel	Piece
7A3=R	7U43	Orthopaedic steel	Piece

**(2) Knee joint bar lower part**

Reference number 7B4

**Technical data**

Article number	Spare part for	Material	Quantity unit
7B4=LI	7U43	Orthopaedic steel	Piece
7B4=RI	7U43	Orthopaedic steel	Piece

**(3) Ball bearing**

Reference number 509K11

**Technical data**

Article number	Spare part for	Quantity unit
509K11=5X16X5	7U43	Piece

**(4) Slotted oval head screw, partially threaded  
(ball bearing screw)**

Reference number 501A25

**Technical data**

Article number	Quantity unit
501A25	Piece

**(5) Slotted oval head screw (lock screw)**

Reference number 501S22

**Technical data**

Article number	Spare part for	Material	Quantity unit
501S22=8XM3.5	7U43	Stainless steel	Piece



### Lower leg joint bars, light duty

Reference number 7U46

Joints with ball bearing, joint centre shifted in the posterior direction, centred joint head, concave half-round bar profile, forged upper and lower joint bars, for swimming prostheses

#### Technical data

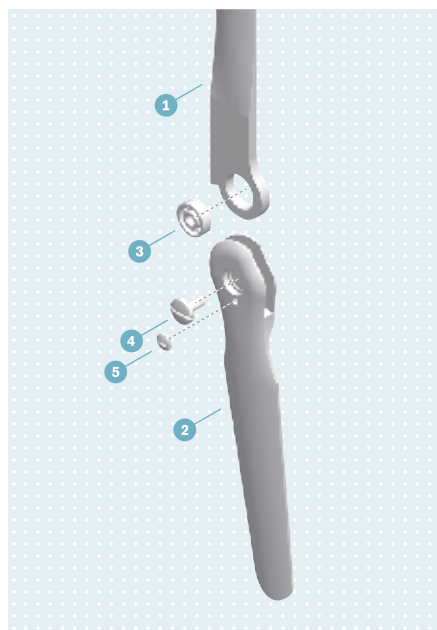
Article number	Milled head	Upper section length	Lower section length	Bar width	Joint bar thickness	Material	Quantity unit
7U46	18x4 mm	270 mm	125 mm	20 mm	1.75 mm	Stainless steel	Pair

#### Information material

647G2

Instructions for use –  
system/leg bars

## Spare parts for 7U46

**(1) Leg joint bar, upper section**

Reference number 7A14

**Technical data**

Article number	Spare part for	Material	Quantity unit
7A14=L	7U46	Stainless steel	Piece
7A14=R	7U46	Stainless steel	Piece

**(2) Knee joint bar lower part**

Reference number 7B7

**Technical data**

Article number	Spare part for	Material	Quantity unit
7B7=L	7U46	Stainless steel	Piece
7B7=R	7U46	Stainless steel	Piece

**(3) Ball bearing**

Reference number 509K15

**Technical data**

Reference number	Spare part for
509K15	7U46

**(4) Slotted oval head screw**

Reference number 501A12

**Technical data**

Article number	Material	Quantity unit
501A12=2	Stainless steel	Piece

**(5) Slotted oval head screw (lock screw)**

Reference number 501S22

**Technical data**

Article number	Spare part for	Material	Quantity unit
501S22=6XM3	7U46	Stainless steel	Piece



### Lower leg joint bars, light duty

Reference number 7U27

Joints with gear drive and bushing, centred joint head, concave half-round bar profile, forged upper and lower joint bars

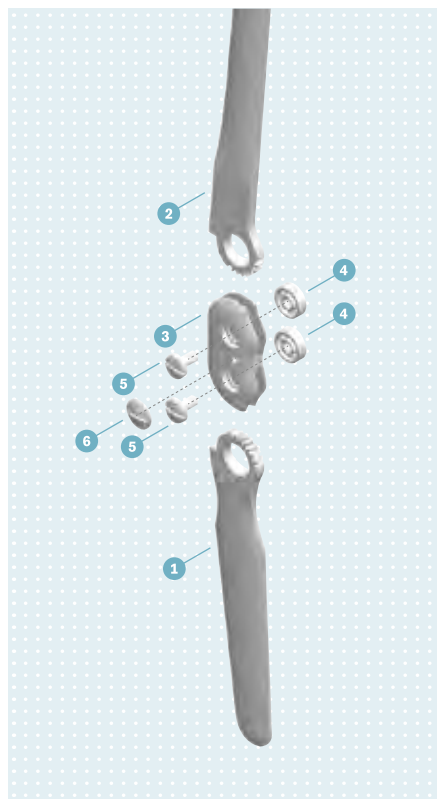
#### Technical data

Article number	Length from joint centre upper	Length from joint centre lower	Pivot point distance	Bar width	Joint bar thickness	Material	Quantity unit
7U27	340 mm	150 mm	18 mm	20 mm	3 mm	Stainless steel	Pair

#### Information material

647G2	Instructions for use – system/leg bars
647G9	7U10/7U27 instructions for use

## Spare parts for 7U27

**(1) Leg joint bar, lower section**

Reference number 7B10

**Technical data**

Article number	Spare part for	Material	Quantity unit
7B10=L	7U27	Stainless steel	Piece
7B10=R	7U27	Stainless steel	Piece

**(2) Leg joint bar, upper section**

Reference number 7A10

**Technical data**

Article number	Spare part for	Material	Quantity unit
7A10=L	7U27	Stainless steel	Piece
7A10=R	7U27	Stainless steel	Piece

**(3) Joint piece**

Reference number 7Y13

**Technical data**

Article number	Material	Quantity unit
7Y13	Stainless steel	Piece

**(4) Bushing**

Reference number 7Y14

**Technical data**

Article number	Quantity unit
7Y14=12X5	Piece
7Y14=10X8	Piece

**(5) Joint screw**

Reference number 501A32

**Technical data**

Article number	Quantity unit
501A32	Piece

**(6) Slotted oval head screw (lock screw)**

Reference number 501S22

**Technical data**

Article number	Spare part for	Material	Quantity unit
501S22=8XM3.5	7U27	Stainless steel	Piece



### Lower leg joint bars, medium duty

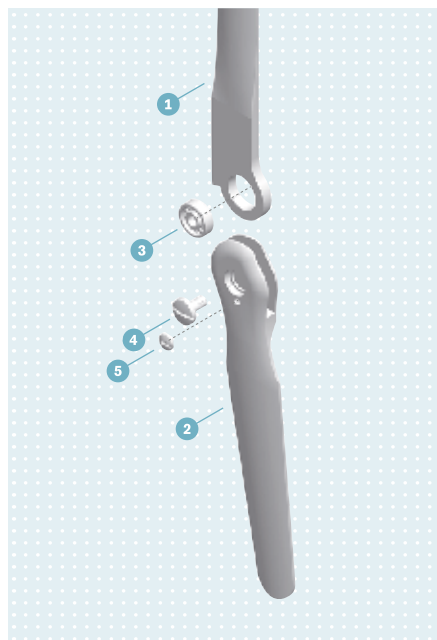
Reference number 7U2

Joints with ball bearing, medial joint head offset to the outside, lateral joint head offset to the inside, concave half-round bar profile, forged upper and lower joint bars

#### Technical data

Article number	Side	Upper section length	Lower section length	Bar width	Joint bar thickness	Material	Quantity unit
7U2=L	left (L)	410 mm	150 mm	24 mm	3 mm	Orthopaedic steel	Pair
7U2=R	right (R)	410 mm	150 mm	24 mm	3 mm	Orthopaedic steel	Pair

## Spare parts for 7U2



## (1) Knee joint bar upper part

Reference number 7A1

**Technical data**

Article number	Spare part for	Material	Quantity unit
7A1=L	7U2=L 7U2=R	Orthopaedic steel	Piece
7A1=R	7U2=L 7U2=R	Orthopaedic steel	Piece

## (2) Knee joint bar lower part

Reference number 7B3

**Technical data**

Article number	Spare part for	Material	Quantity unit
7B3=LA	7U2=L	Orthopaedic steel	Piece
7B3=LI	7U2=L	Orthopaedic steel	Piece
7B3=RA	7U2=R	Orthopaedic steel	Piece
7B3=RI	7U2=R	Orthopaedic steel	Piece

## (3) Ball bearing

Reference number 509K11

**Technical data**

Article number	Spare part for	Quantity unit
509K11=5X16X5	7U2=L 7U2=R	Piece

(4) Slotted oval head screw, partially threaded  
(ball bearing screw)

Reference number 501A25

**Technical data**

Article number	Quantity unit
501A25	Piece

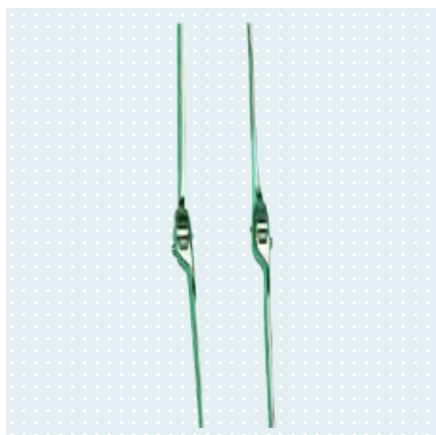
## (5) Slotted oval head screw (lock screw)

Reference number 501S22

**Technical data**

Article number	Spare part for	Material	Quantity unit
501S22=8XM3.5	7U2=L 7U2=R	Stainless steel	Piece





### Lower leg joint bars, medium duty

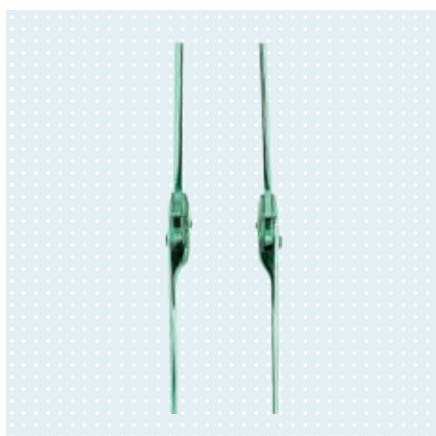
Reference number 7U15

Joints with ball bearing, joint centre placed to the posterior, concave half-round bar profile, forged nickel-plated upper and lower joint bar sections

The head of the inner joint bar is offset to the outside, the head of the outer joint bar to the inside

#### Technical data

Article number	Side	Milled head	Upper section length	Lower section length	Bar width	Joint bar thickness	Quantity unit
7U15=L	left	26x5 mm	410 mm	150 mm	24 mm	3 mm	Pair
7U15=R	right	26x5 mm	410 mm	150 mm	24 mm	3 mm	Pair



### Lower leg joint bars, medium duty

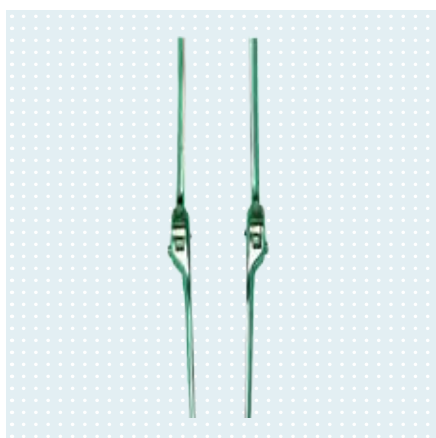
Reference number 7U15

Joints with ball bearing, joint centre placed to the posterior, concave half-round bar profile, forged nickel-plated upper and lower joint bar sections

Similar to 7U15 version, but with heads of both bars offset inside

#### Technical data

Article number	Milled head	Upper section length	Lower section length	Bar width	Joint bar thickness	Quantity unit
7U15=K	26x5 mm	410 mm	150 mm	24 mm	3 mm	Pair



### Lower leg joint bars, medium duty

Reference number 7U25

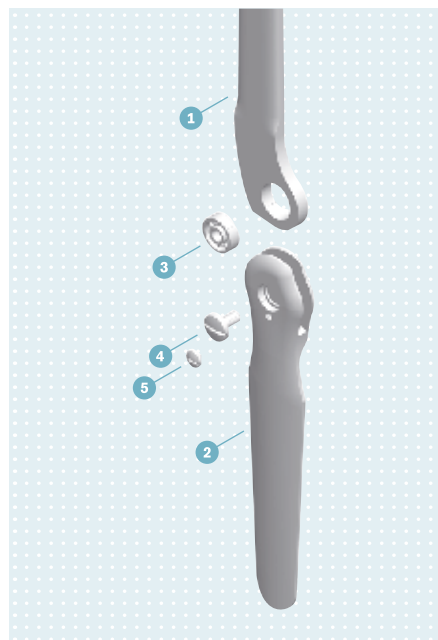
Joints with ball bearing, joint centre placed to the posterior, concave half-round bar profile, forged nickel-plated upper and lower joint bar sections

Similar to 7U15 design, but with heads of both bars offset outside

#### Technical data

Article number	Milled head	Upper section length	Lower section length	Bar width	Joint bar thickness	Quantity unit
7U25	26 x 5 mm	410 mm	150 mm	24 mm	3 mm	Pair

## Spare parts for 7U15, 7U25

**(1) Leg joint bar, upper section, nickel-plated**

Reference number 7A11

**Technical data**

Article number	Spare part for	Quantity unit
7A11=L	7U15=K 7U15=L 7U15=R 7U25	Piece
7A11=R	7U15=K 7U15=L 7U15=R 7U25	Piece

**(2) Leg joint bar, lower section, nickel-plated**

Reference number 7B13

**Technical data**

Article number	Spare part for	Quantity unit
7B13=LA	7U15=K 7U15=L	Piece
7B13=LI	7U15=L 7U25	Piece
7B13=RA	7U15=K 7U15=R	Piece
7B13=RI	7U15=R 7U25	Piece

**(3) Ball bearing**

Reference number 509K11

**Technical data**

Article number	Spare part for	Quantity unit
509K11=5X16X5	7U15=K 7U15=L 7U15=R 7U25	Piece

**(4) Slotted oval head screw, partially threaded**

Reference number 501A22

**Technical data**

Article number	Quantity unit
501A22	Piece

**(5) Lock screw**

Reference number 501S6

**Technical data**

Article number
501S6=8XM3,5



### Lower leg joint bars, medium duty

Reference number 7U10

Joints with gear drive and ball bearings, centred joint head, concave half-round bar profile, forged upper and lower joint bars

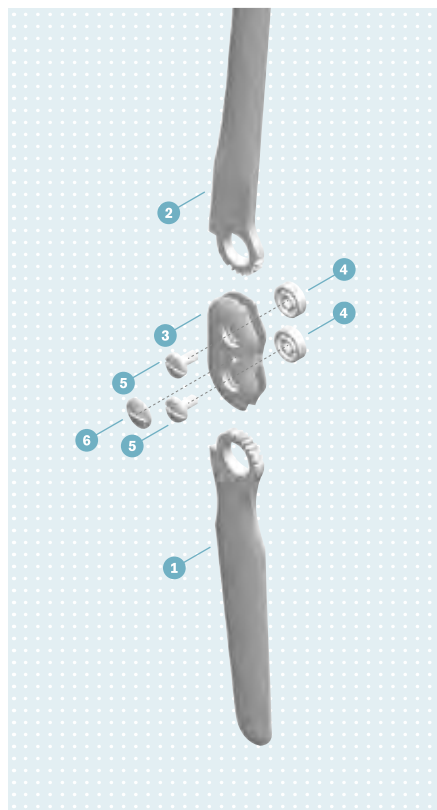
#### Technical data

Article number	Length from joint centre upper	Length from joint centre lower	Pivot point distance	Bar width	Joint bar thickness	Material
7U10	410 mm	130 mm	24 mm	24 mm	3 mm	Orthopaedic steel

#### Information material

647G9	7U10/7U27 instructions for use
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## Spare parts for 7U10

**(1) Leg joint bar, lower section**

Reference number 7B8

**Technical data**

Article number	Spare part for	Quantity unit
7B8=L	7U10	Piece
7B8=R	7U10	Piece

**(2) Leg joint bar, upper section**

Reference number 7A9

**Technical data**

Article number	Spare part for	Quantity unit
7A9=L	7U10	Piece
7A9=R	7U10	Piece

**(3) Joint piece**

Reference number 7Y12

**Technical data**

Article number	Quantity unit
7Y12	Piece

**(4) Ball bearing**

Reference number 509K11

**Technical data**

Article number	Spare part for	Quantity unit
509K11=5X16X5	7U10	Piece

**(5) Slotted flat head screw, partially threaded**

Reference number 501A24

**Technical data**

Article number	Spare part for	Quantity unit
501A24	7U10	Piece

**(6) Slotted oval head screw, nickel-plated lock screw**

Reference number 501S10

**Technical data**

Article number	Quantity unit
501S10	Piece



### Thigh bars

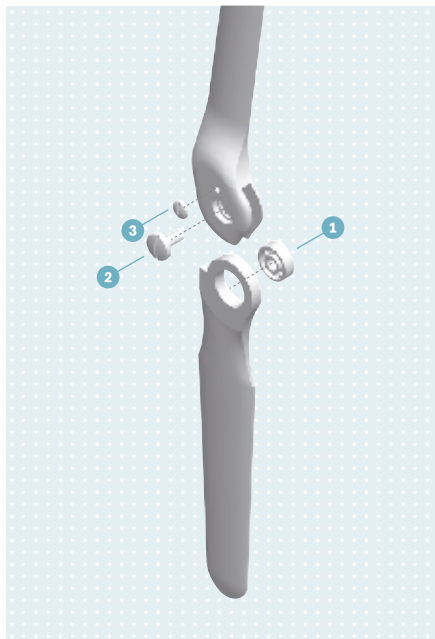
Reference number 7G3

Joints with ball bearings, both joint heads offset outside, concave half-round bar profile, forged nickel-plated upper and lower joint bars

#### Technical data

Article number	Milled head	Length from joint centre upper	Length from joint centre lower	Bar width	Joint bar thickness	Quantity unit
7G3	26 x 5 mm	410 mm	150 mm	24 mm	3 mm	Pair

### Spare parts for 7G3



#### (1) Ball bearing

Reference number 509K11

#### Technical data

Article number	Spare part for	Quantity unit
509K11=5X16X5	7G3	Piece

#### (2) Slotted oval head screw, partially threaded

Reference number 501A22

#### Technical data

Article number	Quantity unit
501A22	Piece

#### (3) Lock screw

Reference number 501S6

#### Technical data

Article number
501S6=8XM3.5









# HKAFO/HO

All hip joint systems, classic components for hip rotation orthoses and reciprocal systems as well as hip abduction orthoses are presented in this section.



Visit **Ottobock Scandinavia professionals site** to obtain up-to-date product information at any time.





## Cosa Junior

Reference number 28L100

The Cosa Active/Junior hip abduction orthosis uses pads between the legs to reduce the scissor gait which occurs in various forms of infantile cerebral palsy. Reducing hip adduction improves the overall gait pattern and control of the trunk in addition to stabilising the basis for standing and sitting.

The Cosa Active/Junior is generally delivered in a 28L101=\* / 28L100=\* starter set. It contains 2 pairs of 29L101=\* / 29L100=\* pants to change and wash and 1 29L102=\* pad set.

### Indications

- Diparesis
- Hip dysplasia
- Hip joint subluxation, congenital
- Hypotonicity
- Tetraparesis

### Contraindications

- Hip joint luxation

### Benefits

- Minimisation of scissor gait enhances mobility (more freedom for knee, improved gait pattern)
- Improved torso control
- More stable base for sitting and standing
- Can be combined with additional orthoses
- Can be worn day and night
- Easy to customise
- Easy care, machine washable (in a laundry bag) at 40 °C
- High wearer comfort

### Information material

646D1012=EN_MASTER	28L100/28L101 information for practitioners
646H16=EN_INT	Cosa Active/Junior user information
646D1231	28LT1 instructions for use
647G1115=ALL_INT	28L100/28L101 instructions for use



### Technical data

Article number	Standard sizing	Body height	Hip circumference	Pad number	Thigh circumference
28L100=80	80	74-86 cm	57-59 cm	1	26-32 cm
28L100=92	92	86-98 cm	59-62 cm	1	26-32 cm
28L100=104	104	98-110 cm	62-64 cm	2	32-36 cm
28L100=116	116	110-122 cm	64-68 cm	2	32-36 cm



### Cosa Active

Reference number 28L101

The Cosa Active/Junior hip abduction orthosis uses pads between the legs to reduce the scissor gait which occurs in various forms of infantile cerebral palsy. Reducing hip adduction improves the overall gait pattern and control of the trunk in addition to stabilising the basis for standing and sitting.

The Cosa Active/Junior is generally delivered in a 28L101=\*/28L100=\* starter set. It contains 2 pairs of 29L101=\*/29L100=\* pants to change and wash and 1 29L102=\* pad set.

#### Indications

- Diparesis
- Hip dysplasia
- Hip joint subluxation, congenital
- Hypotonicity
- Tetraparesis

#### Contraindications

- Hip joint luxation

#### Benefits

- Minimisation of scissor gait enhances mobility (more freedom for knee, improved gait pattern)
- Improved torso control
- More stable base for sitting and standing
- Can be combined with additional orthoses
- Can be worn day and night
- Easy to customise
- Easy care, machine washable (in a laundry bag) at 40 °C
- High wearer comfort

#### Information material

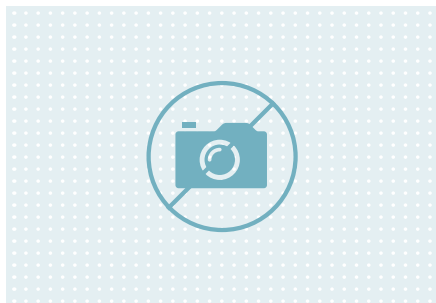
646D1012=EN_MASTER	28L100/28L101 information for practitioners
646H16=EN_INT	Cosa Active/Junior user information
646D1231	28LT1 instructions for use
647G1115=ALL_INT	28L100/28L101 instructions for use



#### Technical data

Article number	Standard sizing	Body height	Hip circumference	Pad number	Thigh circumference
28L101=128	128	122-134 cm	68-72 cm	3	36-44 cm
28L101=140	140	134-146 cm	72-78 cm	3	36-44 cm
28L101=152	152	146-158 cm	78-86 cm	4	44-54 cm
28L101=S	164/ women 34-38/ men 42-46	158-170 cm	86-96 cm	4	44-54 cm
28L101=M	Women 40, 42/ men 48, 50	from 170 cm	96-105 cm	5	54-62 cm
28L101=L	Women 44, 46/ men 52, 54	from 170 cm	105-109 cm	5	54-62 cm

## Spare parts for 28L100, 28L101

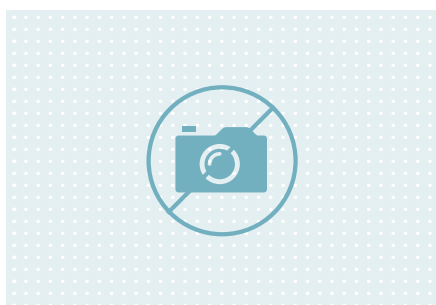


### Cosa Junior shorts

Reference number 29L100

#### Technical data

Article number	for
29L100=80	Cosa Junior
29L100=92	Cosa Junior
29L100=104	Cosa Junior
29L100=116	Cosa Junior

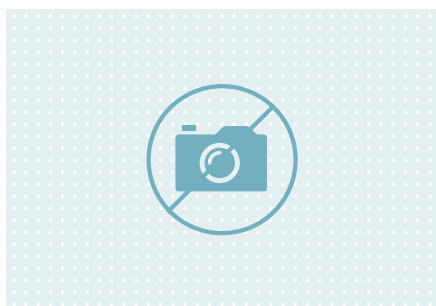


### Cosa Active shorts

Reference number 29L101

#### Technical data

Article number	for
29L101=128	Cosa Active
29L101=140	Cosa Active
29L101=152	Cosa Active
29L101=S	Cosa Active
29L101=M	Cosa Active
29L101=L	Cosa Active



### Pad

Reference number 29L102

#### Technical data

Article number	for
29L102=1	Cosa Junior
29L102=2	Cosa Junior
29L102=3	Cosa Active
29L102=4	Cosa Active
29L102=5	Cosa Active

## Fit Kit for 28L100, 28L101



### Cosa FIT KIT

Reference number 28LT1

The Cosa Active FIT KIT is used to determine the size of the shorts. The pads can also be used to check the proper functionality for a patient.



#### Technical data

Information material	Article number	Scope of delivery
646D1231	28LT1	10 test shorts in 10 sizes 5 test pads in 5 sizes 4 suspender clips with connecting strap 1 carrier bag
28LT1 instructions for use		



### RGO hip joint system

Reference number 17H100

The connection between the knee joint bars and the pelvic module is especially important for fittings with reciprocating gait orthoses. Our RGO (reciprocating gait orthosis) hip joint system helps users achieve pelvic rotation that imitates physiological rotation during walking. Thanks to the development of a bi-axial joint construction, pelvic rotation of 15° is possible without having to change the walking direction. The result: less effort, more effective gait pattern.



#### Technical data

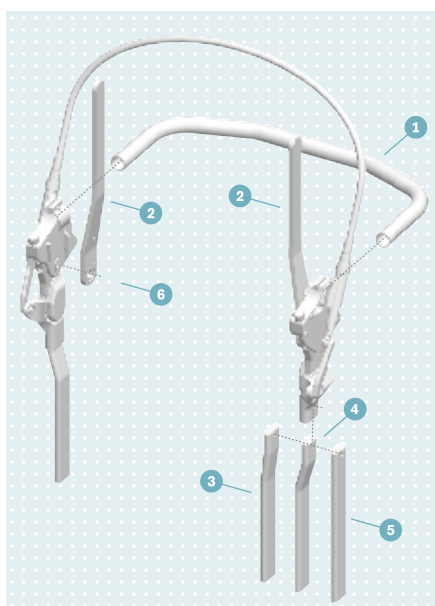
#### Information material

647F527=EN_INT	RGO hip joint system order form
647G1535=ALL_INT	17H100 instructions for use

Article number	Max. body weight	Pelvic width	Age	Quantity unit
17H100=0	up to 65 kg	340 - 380 mm	9 years and up	Set
17H100=1	up to 65 kg	270 - 330 mm	9 years and up	Set
17H100=2	up to 34 kg	200 - 260 mm	4-8 years	Set

- Please note that the pelvic tube is not included in the scope of delivery and therefore has to be ordered separately.

### Spare parts for 17H100



### (1) Pelvic tube

Reference number 17Y130

#### Technical data

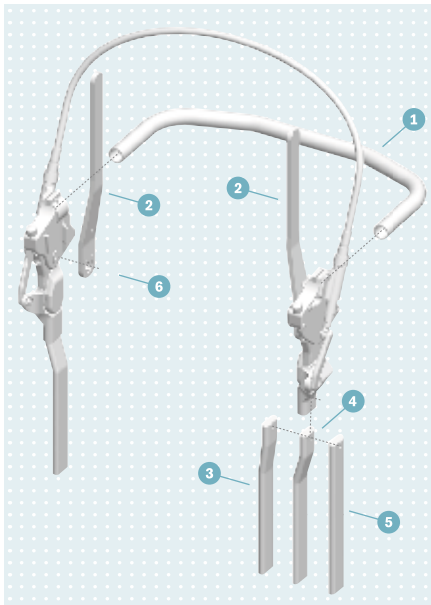
Article number	Spare part for	Material	Quantity unit
17Y130=270	17H100=1	Aluminium	Piece
17Y130=280	17H100=1	Aluminium	Piece
17Y130=290	17H100=1	Aluminium	Piece
17Y130=320	17H100=1	Aluminium	Piece
17Y130=330	17H100=1	Aluminium	Piece
17Y130=340	17H100=1	Aluminium	Piece
17Y130=350	17H100=0	Aluminium	Piece
17Y130=360	17H100=0	Aluminium	Piece
17Y130=370	17H100=0	Aluminium	Piece
17Y130=380	17H100=0	Aluminium	Piece

### (1) Pelvic tube

Reference number 17Y140

#### Technical data

Article number	Spare part for	Material	Quantity unit
17Y140=200	17H100=2	Aluminium	Piece
17Y140=210	17H100=2	Aluminium	Piece
17Y140=220	17H100=2	Aluminium	Piece
17Y140=230	17H100=2	Aluminium	Piece
17Y140=240	17H100=2	Aluminium	Piece
17Y140=250	17H100=2	Aluminium	Piece
17Y140=260	17H100=2	Aluminium	Piece



### (2) Torso bar

Reference number 17Y132

#### Technical data

Article number	Spare part for	Side	Material	Quantity unit
17Y132=L	17H100=0 17H100=1	left (L)	Aluminium	Piece
17Y132=R	17H100=0 17H100=1	right (R)	Aluminium	Piece

### (2) Torso bar

Reference number 17Y142

#### Technical data

Article number	Spare part for	Side	Material	Quantity unit
17Y142=L	17H100=2	left (L)	Aluminium	Piece
17Y142=R	17H100=2	right (R)	Aluminium	Piece

### (3, 4, 5) Thigh bar

Reference number 17Y131

#### Technical data

Article number	Spare part for	Frame offset	Material	Quantity unit
17Y131=0	17H100=0 17H100=1	0 mm	Aluminium	Piece
17Y131=5	17H100=0 17H100=1	5 mm	Aluminium	Piece
17Y131=10	17H100=0 17H100=1	10 mm	Aluminium	Piece

### (3, 4, 5) Thigh bar

Reference number 17Y143

#### Technical data

Article number	Spare part for	Frame offset	Material	Quantity unit
17Y143=0	17H100=2	0 mm	Aluminium	Piece
17Y143=5	17H100=2	5 mm	Aluminium	Piece
17Y143=10	17H100=2	10 mm	Aluminium	Piece

### (6) Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	Spare part for	Thread	Length	Material	Quantity unit
501S32=M4X10X9.5	17H100=0 17H100=1 17H100=2	M4	9.5 mm	Stainless steel	Piece

### Accessory for 17H100



### Special adhesive

Reference number 636W18

The special adhesive is suitable for bonding wood and metal. It is particularly recommended for unilateral bar systems.

- For adhering metal to wood
- Especially for unilateral bar systems and E-MAG knee joints
- Base: epoxy resin and pigments (A), polyaminoamide (B)
- Pasty consistency
- Highest strength values when cured between 40–120° C
- In conjunction with 636W19 hardener
- Solvent-free



#### Technical data

Article number	Net contents	Packaging
636W18	0.1 kg	Tube



### Hardener

Reference number 636W19

The hardener is suitable for use with the 636W18 special adhesive.

- For 636W18 special adhesive
- Pasty consistency
- Good full curing



#### Technical data

Article number	Net contents	Packaging
636W19	0.1 kg	Tube



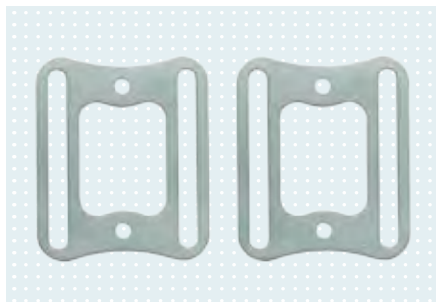
### Shrinkable tubing

Reference number 616Z9

This plastic hose with rounded edges is suitable for covering products such as orthotic joints or bars, for example. It offers good insulation, good protection against corrosion and good resistance to liquids.

#### Technical data

Article number	Diameter	Length	Colour
616Z9=19X61	19 mm	50 m	Black
616Z9=25.4X30	25.4 mm	50 m	Black



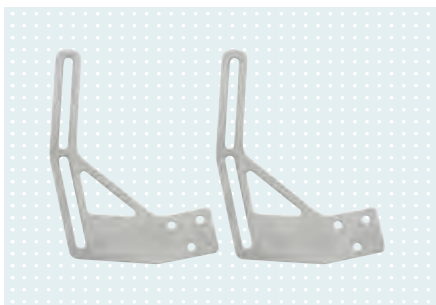
### Support fasteners

Reference number 17Y161

One pair of support fasteners for torso bars

#### Technical data

Article number	Accessories for	Quantity unit
17Y161	17H100=0 17H100=1 17H100=2	Pair



### Buttock support fasteners

Reference number 17Y160

#### Technical data

Article number	Accessories for	Quantity unit
17Y160=1	17H100=0 17H100=1	Pair
17Y160=2	17H100=2	Pair

Billing address		Shipping address (if different from customer address)	
Customer no.		Customer no.	
Company		Company	
Street		Street	
Postal code/city		Postal code/city	
Phone number		Phone number	
Orthopaedic technician		Patient name	

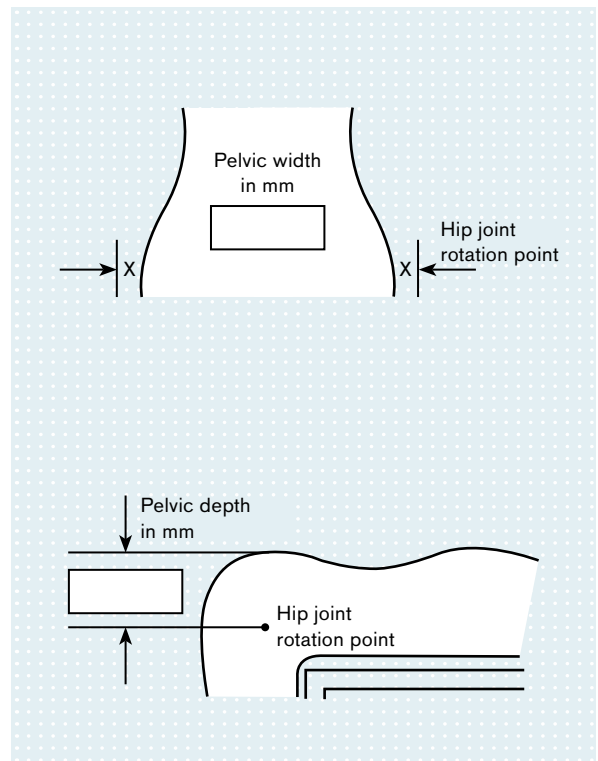
### General information:

The RGO hip joint system is suitable for patients up to 65 kg. The system is available in three different versions. 17H100=2 for ages 4-8, up to a body weight of 34 kg. 17H100=1/0 for ages 9 and up, up to a body weight of 65 kg. Pelvic tubes are available in 1 cm increments for clear pelvic widths of 200 mm to 380 mm.

The pelvic width must be measured between the two trochanters in both the sitting and prone position. When selecting the pelvic tube, also take into account the wall thickness of the pelvic module to be fabricated including the padding!

### Please check the desired combination!

Combination	17H100=2	17H100=1	17H100=0
	up to 34 kg (75 lbs)	up to 65 kg (143.3 lbs)	up to 65 kg (143.3 lbs)
17Y140=200	<input type="checkbox"/>		
17Y140=210	<input type="checkbox"/>		
17Y140=220	<input type="checkbox"/>		
17Y140=230	<input type="checkbox"/>		
17Y140=240	<input type="checkbox"/>		
17Y140=250	<input type="checkbox"/>		
17Y140=260	<input type="checkbox"/>		
17Y130=270		<input type="checkbox"/>	
17Y130=280		<input type="checkbox"/>	
17Y130=290		<input type="checkbox"/>	
17Y130=300		<input type="checkbox"/>	
17Y130=310		<input type="checkbox"/>	
17Y130=320		<input type="checkbox"/>	
17Y130=330		<input type="checkbox"/>	
17Y130=340			<input type="checkbox"/>
17Y130=350			<input type="checkbox"/>
17Y130=360			<input type="checkbox"/>
17Y130=370			<input type="checkbox"/>
17Y130=380			<input type="checkbox"/>



Date ..... Place ..... Signature .....





# HKAFO/HO

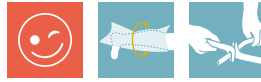
## Free motion joints – Conventional orthotic joints



### Hip joint bar

Reference number 17H29

Free-motion hip joint for children



#### Technical data

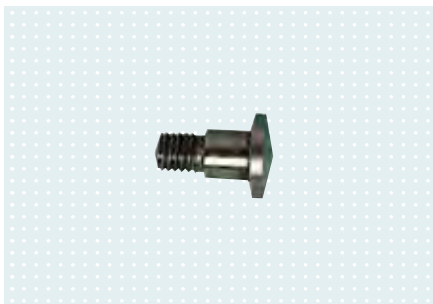
Article number	Side	Milled head Ø	Bar width	Upper/lower bar length	Thickness	Material	Quantity unit
17H29=L5	left (L)	20 mm	14 mm	320 / 250 mm	4 mm	Stainless steel	Piece
17H29=R5	right (R)	20 mm	14 mm	320 / 250 mm	4 mm	Stainless steel	Piece

#### Information material

647G2

Instructions for use –  
system/leg bars

## Spare parts for 17H29



### Oval head screw, slotted and partially threaded

Reference number 501A21

#### Technical data

Article number	Spare part for	Material	Quantity unit
501A21	17H29=L5 17H29=R5	Stainless steel	Piece



### Hip joint bar

Reference number 17H23

Free motion joint, without stop, with thrust needle bearing, flat bar profile, for rotation orthosis, Annastift model; hip rotation orthosis



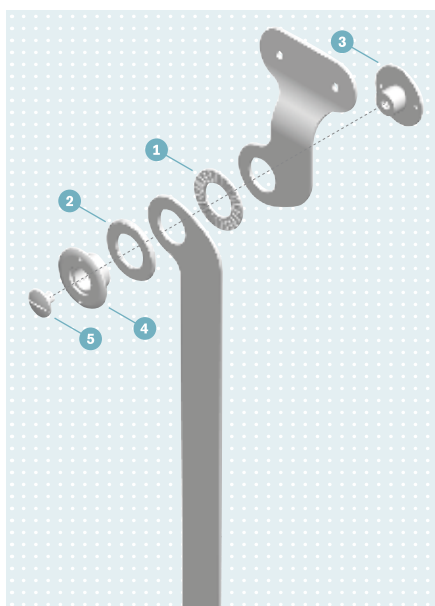
#### Technical data

Article number	Side	Thickness	Milled head Ø	Upper/lower bar length	Bar width	Joint head Ø	Material
17H23=L	left (L)	2 mm	20 mm	75 / 450 mm	24 mm	30 mm	Stainless steel
17H23=R	right (R)	2 mm	20 mm	75 / 450 mm	24 mm	30 mm	Stainless steel

#### Information material

647G6 17H23 instructions for use

### Spare parts for 17H23



### (1) Thrust needle bearing

Reference number 509N3

#### Technical data

Article number	Quantity unit
509N3	Piece

### (2) Retainer ring for thrust needle bearing

Reference number 509N4

#### Technical data

Article number	Quantity unit
509N4	Piece

### (3) Two-hole screw

Reference number 17Z49

#### Technical data

Article number	Material	Quantity unit
17Z49	Stainless steel	Piece

### (4) Two-hole nut

Reference number 17Y50

#### Technical data

Article number	Material	Quantity unit
17Y50	Stainless steel	Piece

### (5) Slotted oval head screw

Reference number 501S47

#### Technical data

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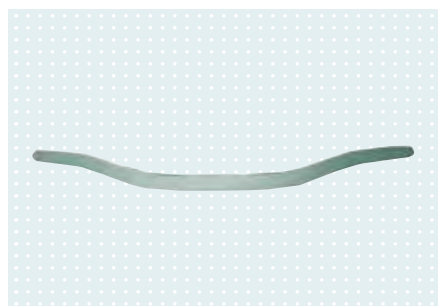
**Article number**

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501S47

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### Accessory for 17H23

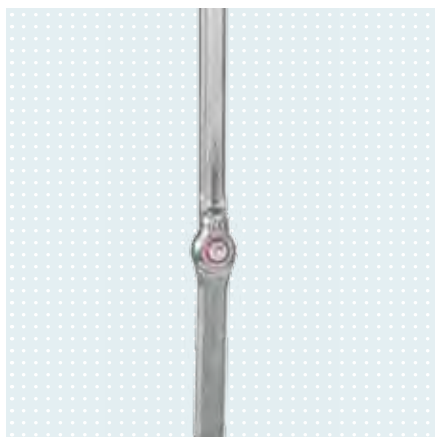


### Pelvic band

Reference number 17Z8

#### Technical data

Article number	Length	Material	Quantity unit
17Z8=680	680 mm	Aluminium	Piece
17Z8=780	780 mm	Aluminium	Piece
17Z8=880	880 mm	Aluminium	Piece



### Hip joint bar

Reference number 17HF1

Free motion hip joint



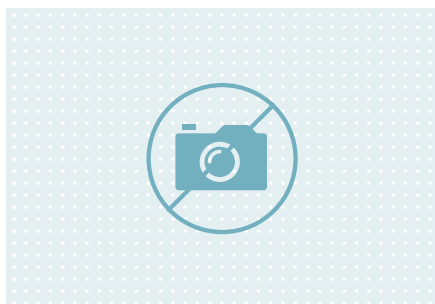
#### Technical data

Article number	Upper/lower bar length	Bar width top/bottom	Bar thickness top/bottom	Material	Quantity unit
17HF1=13-CS	300 / 195 mm	12,7 / 14,28 mm	4,75 / 4,75 mm	Steel	Pair
17HF1=16-CS	400 / 270 mm	15.87 / 19 mm	6,35 / 4,75 mm	Steel	Pair

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
647G1423	17HF1 / 17HL1 / 17HL4 instructions for use

### Spare parts for 17HF1



### Service set

Reference number 17KHS=3

Service set for hip and knee joints

#### Technical data

Article number	Spare part for	Scope of delivery
17KHS=3	17HF1=13-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece



### Service set

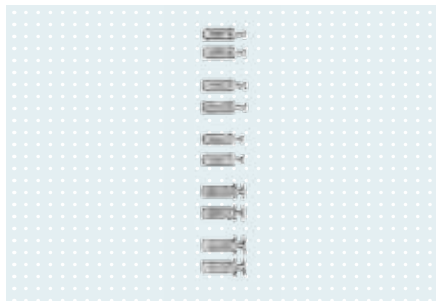
Reference number 17KHS=2

Service set for hip and knee joints

#### Technical data

Article number	Spare part for	Scope of delivery
17KHS=2	17HF1=16-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece

## Accessory for 17HF1



### Alignment insert set

Reference number 743Y57

#### Technical data

---

**Article number**

743Y57

---

**Accessories for**

17HF1=13-CS

17HF1=16-CS

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### System hip joint

Reference number 17B82

Contoured upper joint section, free motion, with ball bearing



#### Technical data

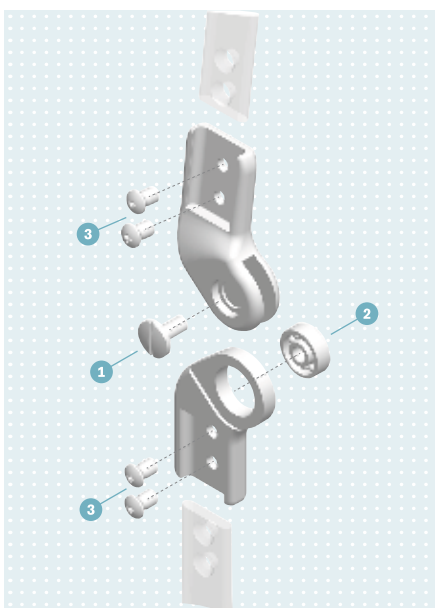
Article number	Side	System width	Milled head	Length from joint centre upper	Length from joint centre lower	Material	Quantity unit
17B82=L16	left (L)	16 mm	25x5 mm	44 mm	42 mm	Stainless steel	Piece
17B82=R16	right (R)	16 mm	25x5 mm	44 mm	42 mm	Stainless steel	Piece
17B82=L20	left (L)	20 mm	25x5 mm	44 mm	42 mm	Stainless steel	Piece
17B82=R20	right (R)	20 mm	25x5 mm	44 mm	42 mm	Stainless steel	Piece

#### Information material

647G2

Instructions for use –  
system/leg bars

### Spare parts for 17B82



### (1) Oval head screw, slotted and partially threaded

Reference number 501A6

#### Technical data

Article number	Material	Quantity unit
501A6=5X5XM5	Edelstahl	piece

### (2) Ball bearing

Reference number 509K11

#### Technical data

Article number	Spare part for	Quantity unit
509K11=5X16X5	17B82=L16 17B82=R16 17B82=L20 17B82=R20	Piece

### (3) Phillips oval head screw

Reference number 501T7

#### Technical data

Article number	Spare part for	Length	Head Ø	Material	Quantity unit
501T7=7.5X9XM5	17B82=L16 17B82=R16 17B82=L20 17B82=R20	9 mm	7.5 mm	Stainless steel	Piece

### Accessory for 17B82



### System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece



### System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece



### System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=16-T	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set



### System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set



### System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set



### System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set



### System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set



### System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

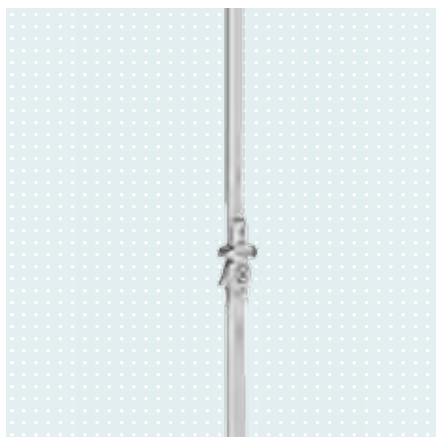
#### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set



# HKAFO/HO

## Locked hip joints – Conventional orthotic joints



### Hip joint bar with double lock

Reference number 17HL5

With double ring lock for locking at 90° and 180°, supplied in pairs, supports:

- Locking for stable standing (180°)
- Locking for stable sitting (90°)



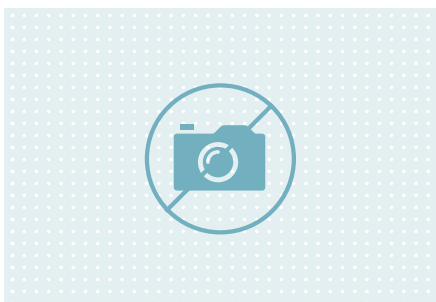
#### Technical data

Article number	Upper/lower bar length	Bar width top/bottom	Bar thickness top/bottom	Material	Quantity unit
17HL5=13-CS	300 / 250 mm	12,7 / 12,7 mm	4,76 / 4,76 mm	Steel	Pair

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
647G1320	17HL5 instructions for use

## Spare parts for 17HL5



### Service set

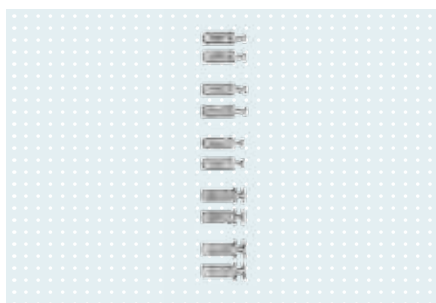
Reference number 17KHS=3

Service set for hip and knee joints

#### Technical data

Article number	Spare part for	Scope of delivery
17KHS=3	17HL5=13-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece

## Accessory for 17HL5

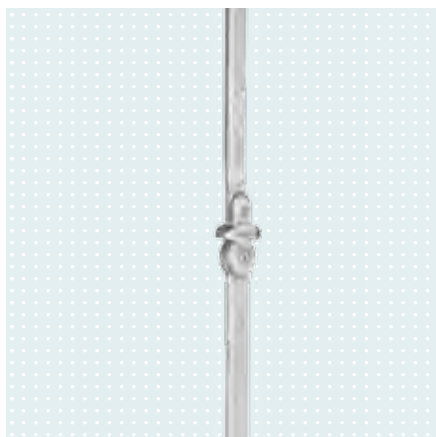


### Alignment insert set

Reference number 743Y57

#### Technical data

Article number	Accessories for
743Y57	17HL5=13-CS



### Locked hip joint bar

Reference number 17HL1



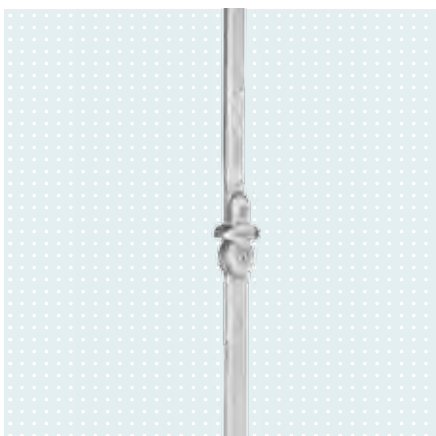
#### Technical data

Article number	Upper/lower bar length	Bar width top/bottom	Bar thickness top/bottom	Material	Quantity unit
17HL1=13-CS	300 / 200 mm	12,7 / 14,28 mm	4,75 / 4,75 mm	Steel	Pair
17HL1=16-CS	400 / 270 mm	15,87 / 19 mm	6,35 / 4,75 mm	Steel	Pair

- Manual = the ring lock must be manually moved into the locked position

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
647G1423	17HF1 / 17HL1 / 17HL4 instructions for use



### Locked hip joint bar

Reference number 17HL4



#### Technical data

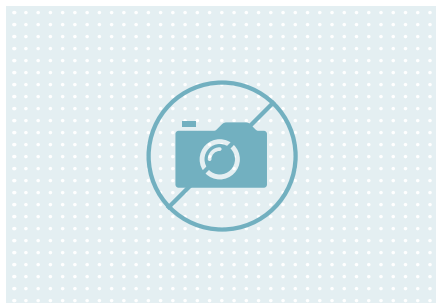
Article number	Upper/lower bar length	Bar width top/bottom	Bar thickness top/bottom	Material	Quantity unit
17HL4=13-CS	300 / 200 mm	12,7 / 14,28 mm	4,75 / 4,75 mm	Steel	Pair
17HL4=16-CS	400 / 270 mm	15,87 / 19 mm	6,35 / 4,75 mm	Steel	Pair

- Automatic = a spring presses the ring lock into the locked position

#### Information material

646D1279=EN_INT	Conventional joint bar system information for practitioners
647G1423	17HF1 / 17HL1 / 17HL4 instructions for use

### Spare parts for 17HL4, 17HL4



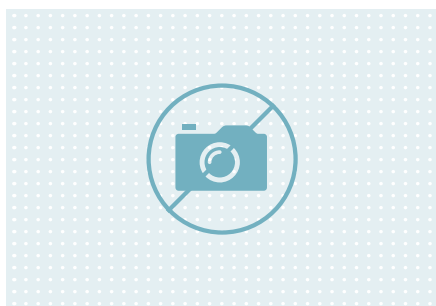
#### Service set

Reference number 17KHS=3

Service set for hip and knee joints

##### Technical data

Article number	Spare part for	Scope of delivery
17KHS=3	17HL1=13-CS 17HL4=13-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece



#### Service set

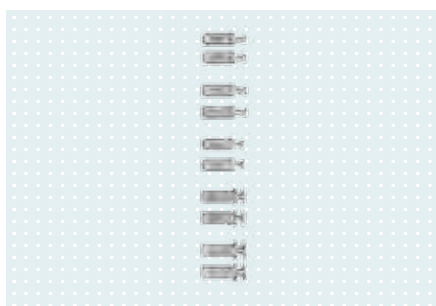
Reference number 17KHS=2

Service set for hip and knee joints

##### Technical data

Article number	Spare part for	Scope of delivery
17KHS=2	17HL1=16-CS 17HL4=16-CS	Bearing nut Bushing Flat round disk with slot Red washer Compression spring Truss head screw with slot Spring-loaded thrust piece

### Accessory for 17HL1, 17HL1



#### Alignment insert set

Reference number 743Y57

##### Technical data

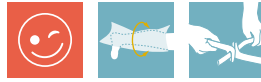
Article number	Accessories for
743Y57	17HL1=13-CS 17HL1=16-CS 17HL4=13-CS 17HL4=16-CS



### Hip joint bar

Reference number 17H34

Locked hip joint with ring lock and abduction joint, flat bar profile



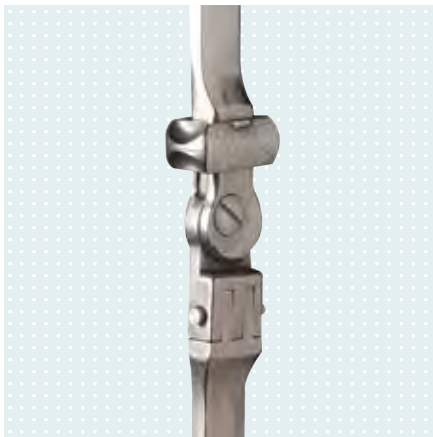
#### Technical data

Article number	Side	Thickness	Width	Milled head Ø	Upper/lower bar length	Material	Quantity unit
17H34=L	left (L)	5 mm	19 mm	30 mm	360 / 250 mm	Stainless steel	Piece
17H34=R	right (R)	5 mm	19 mm	30 mm	360 / 250 mm	Stainless steel	Piece

#### Information material

647G2

Instructions for use –  
system/leg bars



### Hip joint bar

Reference number 17H26

Locked hip joint with ring lock and abduction joint, flat bar profile



#### Technical data

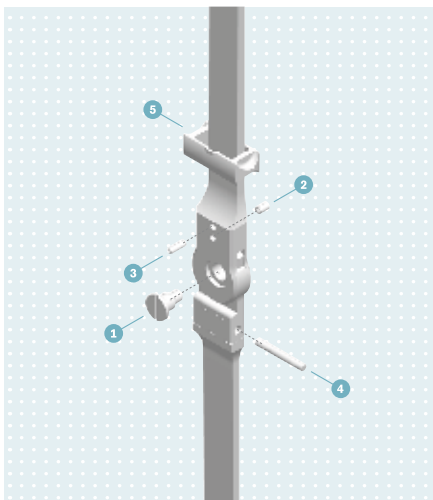
Article number	Side	Thickness	Width	Milled head Ø	Upper/lower bar length	Material	Quantity unit
17H26=L5	left (L)	4 mm	14 mm	20 mm	320 / 250 mm	Stainless steel	Piece
17H26=R5	right (R)	4 mm	14 mm	20 mm	320 / 250 mm	Stainless steel	Piece

#### Information material

647G2

Instructions for use –  
system/leg bars

## Spare parts for 17H34, 17H26

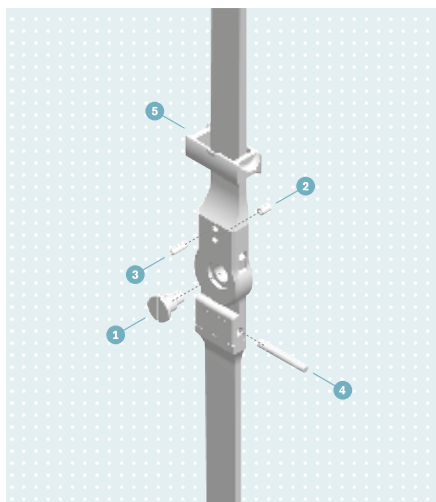


### (1) Oval head screw, slotted and partially threaded

Reference number 501A21

#### Technical data

Article number	Spare part for	Material	Quantity unit
501A21	17H26=L5 17H26=R5	Stainless steel	Piece



### (1) Oval head screw, slotted and partially threaded

Reference number 501A29

#### Technical data

Article number	Spare part for	Material	Quantity unit
501A29=14X9X6.5XM6	17H34=L 17H34=R	Stainless steel	Piece

### (2) Spring-loaded thrust piece

Reference number 501D1

#### Technical data

Article number	Spare part for	Material	Quantity unit
501D1	17H34=L 17H34=R	Stainless steel	Piece

### (3) Clamping sleeve

Reference number 506S1

#### Technical data

Article number	Spare part for	Material	Quantity unit
506S1=3.5X10	17H26=L5 17H26=R5 17H34=L 17H34=R	Stainless steel	Piece

### (4) Rivet pin

Reference number 506A12

#### Technical data

Article number	Spare part for	Quantity unit
506A12=4X22	17H26=L5 17H26=R5 17H34=L 17H34=R	Piece

### (5) Ring lock

Reference number 17Y31

#### Technical data

Article number	Spare part for	Material	Quantity unit
17Y31=14X10	17H34=L 17H34=R	Stainless steel	Piece



### Hip joint bar

Reference number 17H28

With ring lock, flat bar profile



#### Technical data

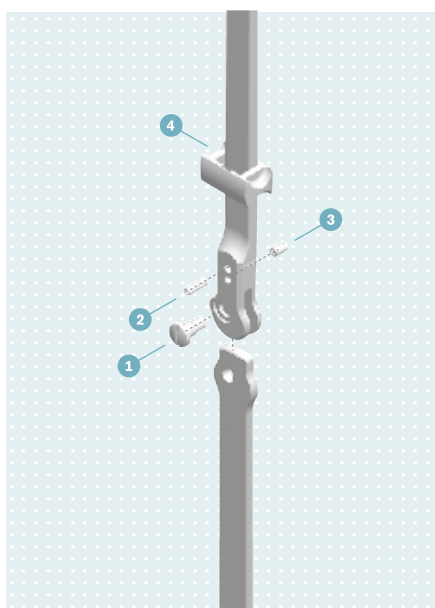
Article number	Side	Width	Thickness	Milled head Ø	Upper/lower bar length	Material	Quantity unit
17H28=L5	left (L)	14 mm	4 mm	20 mm	320 / 250 mm	Stainless steel	Piece
17H28=R5	right (R)	14 mm	4 mm	20 mm	320 / 250 mm	Stainless steel	Piece

#### Information material

647G2

Instructions for use –  
system/leg bars

### Spare parts for 17H28



### (1) Oval head screw, slotted and partially threaded

Reference number 501A21

#### Technical data

Article number	Spare part for	Material	Quantity unit
501A21	17H28=L5 17H28=R5	Stainless steel	Piece

### (2) Clamping sleeve

Reference number 506S1

#### Technical data

Article number	Spare part for	Material	Quantity unit
506S1=3.5X10	17H28=L5 17H28=R5	Stainless steel	Piece

### (3) Spring-loaded thrust piece

Reference number 501D1

#### Technical data

Article number	Spare part for	Material	Quantity unit
501D1	17H28=L5 17H28=R5	Stainless steel	Piece

### (4) Ring lock

Reference number 17Y31

#### Technical data

Article number	Spare part for	Material	Quantity unit
17Y31=14X10	17H28=L5 17H28=R5	Stainless steel	Piece





# Bars/bar accessories

This section contains all bars made of aluminium, steel and titanium.

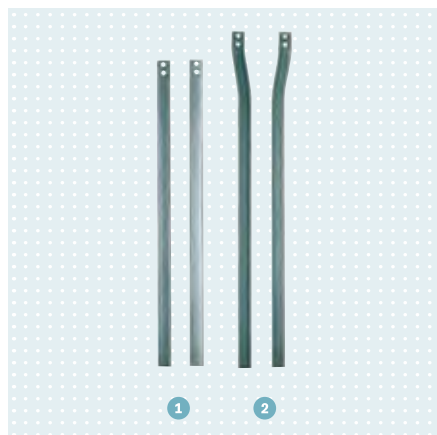


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# Bars/bar accessories

## Aluminium



### System side bar set

Reference number 17B39

Consisting of two upper side bars and one left and one right lower side bar, with Ottobock special adhesive

#### Technical data

Article number	System width	Thickness	Quantity unit
17B39=16	16 mm	5 mm	Set
17B39=20	20 mm	5 mm	Set

#### Information material

646F465=ALL_INT	AFO selection guide
646F595=EN_MASTER	Ankle joints overview
646F596=EN_MASTER	Knee joints overview
647G78=ALL_INT	Light metal bars instructions for use

## Components of 17B39



### (1) Thigh side bar

Reference number 17B6

Thigh side bar for the 17B39 and 17B41 system side bar sets

#### Technical data

Article number	Length	Thickness	System width	Quantity unit
17B6=16	410 mm	5 mm	16 mm	Piece
17B6=20	410 mm	5 mm	20 mm	Piece



### (2) Lower leg side bar

Reference number 17B7

Lower leg side bar for the 17B39 system side bar set

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B7=L16	left (L)	16 mm	450 mm	5 mm	Piece
17B7=R16	right (R)	16 mm	450 mm	5 mm	Piece
17B7=L20	left (L)	20 mm	450 mm	5 mm	Piece
17B7=R20	right (R)	20 mm	450 mm	5 mm	Piece



## System side bar set, extra long

Reference number 17B41

Consisting of two 17B6 upper side bars and one left and one right 17B104 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B41=16	16 mm	5 mm	Set
17B41=20	20 mm	5 mm	Set

### Information material

647G78=ALL\_INT

Light metal bars  
instructions for use

## Components of 17B41



### (1) Thigh side bar

Reference number 17B6

Thigh side bar for the 17B39 and 17B41 system side bar sets

### Technical data

Article number	Length	Thickness	System width	Quantity unit
17B6=16	410 mm	5 mm	16 mm	Piece
17B6=20	410 mm	5 mm	20 mm	Piece



### (2) Lower leg side bar

Reference number 17B104

Lower leg side bar from the 17B41 side bar set

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B104=L16	left (L)	16 mm	560 mm	5 mm	Piece
17B104=R16	right (R)	16 mm	560 mm	5 mm	Piece
17B104=L20	left (L)	20 mm	560 mm	5 mm	Piece
17B104=R20	right (R)	20 mm	560 mm	5 mm	Piece

# Bars/bar accessories

Aluminium



## System side bar set

Reference number 17B85

Concave, consisting of two 17B88 upper side bars and one left and one right 17B89 lower side bar, with Ottobock special adhesive

### Technical data

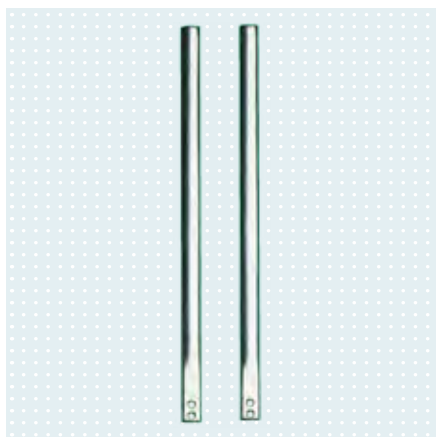
Article number	System width	Thickness	Quantity unit
17B85=16	16 mm	5 mm	Set
17B85=20	20 mm	5 mm	Set

### Information material

647G78=ALL\_INT

Light metal bars  
instructions for use

## Components of 17B85



### (1) Thigh side bar

Reference number 17B88

Thigh side bar for 17B85

### Technical data

Article number	System width	Length	Thickness	Quantity unit
17B88=16	16 mm	410 mm	5 mm	Piece
17B88=20	20 mm	410 mm	5 mm	Piece



### (2) Lower leg side bar

Reference number 17B89

Lower leg side bar for 17B85

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B89=L16	left (L)	16 mm	450 mm	5 mm	Piece
17B89=R16	right (R)	16 mm	450 mm	5 mm	Piece
17B89=L20	left (L)	20 mm	450 mm	5 mm	Piece
17B89=R20	right (R)	20 mm	450 mm	5 mm	Piece

## Accessory for 17B39, 17B41, 17B85



### Special adhesive

Reference number 636W18

- For adhering metal to wood
- Especially for unilateral bar systems and E-MAG knee joints
- Base: epoxy resin and pigments (A), polyaminoamide (B)
- Pasty consistency
- Highest strength values when cured between 40–120° C
- In conjunction with 636W19 hardener
- Solvent-free

#### Information material

646F297=GB

Poster



#### Technical data

Article number	Net contents	Packaging
636W18	0.1 kg	Tube



### Hardener

Reference number 636W19

- For 636W18 special adhesive
- Pasty consistency
- Good full curing

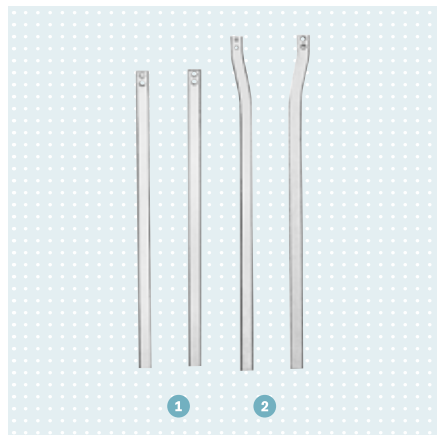


#### Technical data

Article number	Net contents	Packaging
636W19	0.1 kg	Tube

# Bars/bar accessories

Steel



## System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

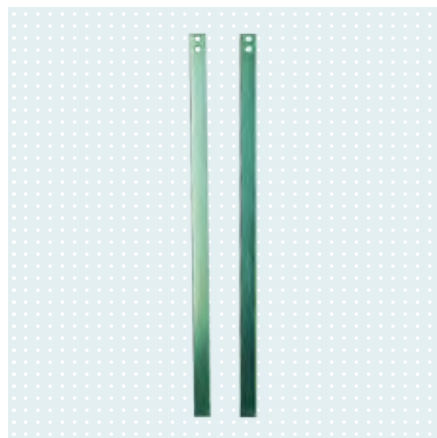
### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16	16 mm	4 mm	Set
17B38=20	20 mm	4 mm	Set

### Information material

646F465=ALL_INT	AFO selection guide
646F595=EN_MASTER	Ankle joints overview
646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars

## Components of 17B38



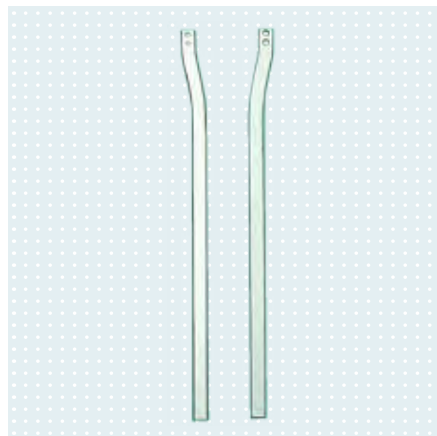
### (1) Thigh side bar

Reference number 17B4

Upper side bar

### Technical data

Article number	System width	Length	Thickness	Quantity unit
17B4=16	16 mm	410 mm	4 mm	Piece
17B4=20	20 mm	410 mm	4 mm	Piece



### (2) Lower leg side bar

Reference number 17B5

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B5=L16	left (L)	16 mm	450 mm	4 mm	Piece
17B5=R16	right (R)	16 mm	450 mm	4 mm	Piece
17B5=L20	left (L)	20 mm	450 mm	4 mm	Piece
17B5=R20	right (R)	20 mm	450 mm	4 mm	Piece

## Accessory for 17B38



### Information material

646F297=GB

Poster

## Special adhesive

Reference number 636W18

- For adhering metal to wood
- Especially for unilateral bar systems and E-MAG knee joints
- Base: epoxy resin and pigments (A), polyaminoamide (B)
- Pasty consistency
- Highest strength values when cured between 40–120° C
- In conjunction with 636W19 hardener
- Solvent-free



### Technical data

Article number	Net contents	Packaging
636W18	0.1 kg	Tube



## Hardener

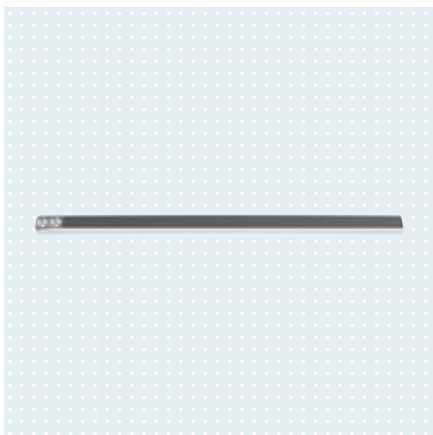
Reference number 636W19

- For 636W18 special adhesive
- Pasty consistency
- Good full curing



### Technical data

Article number	Net contents	Packaging
636W19	0.1 kg	Tube



### Information material

646F465=ALL\_INT

AFO selection guide

646F483=ALL\_INT

Nexgear Tango selection guide

646F595=EN\_MASTER

Ankle joints overview

647G1425=ALL\_INT

17LS3 / 17LV3 / 17SB100 /  
17SL100 instructions for use

## Side bar

Reference number 17LV3

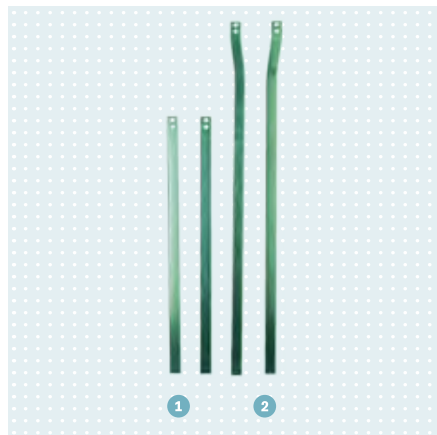
Side bar for the unilateral joint system

### Technical data

Article number	Width	Material	Quantity unit
17LV3=10	10 mm	Stainless steel	Piece
17LV3=12	12 mm	Stainless steel	Piece
17LV3=14	14 mm	Stainless steel	Piece
17LV3=16	16 mm	Stainless steel	Piece
17LV3=20	20 mm	Stainless steel	Piece
17LV3=L-16	16 mm	Stainless steel	Piece
17LV3=L-20	20 mm	Stainless steel	Piece
17LV3=R-16	16 mm	Stainless steel	Piece
17LV3=R-20	20 mm	Stainless steel	Piece

# Bars/bar accessories

Steel



## System side bar set

Reference number 17B40

Overlength, flat, consisting of two 17B4 upper side bars and one left and one right 17B102 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B40=16	16 mm	4 mm	Set
17B40=20	20 mm	4 mm	Set

### Information material

647G2

Instructions for use –  
system/leg bars

## Components of 17B40



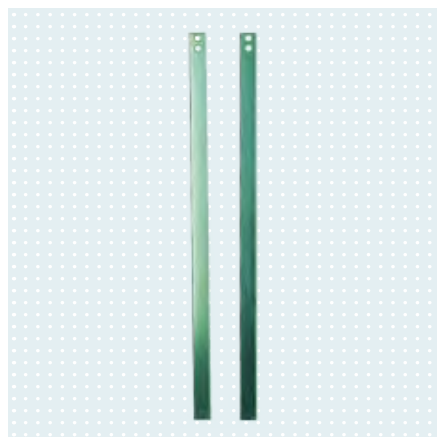
### (1) Lower leg side bar

Reference number 17B102

Lower leg side bar made of stainless steel

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B102=L16	left (L)	16 mm	560 mm	4 mm	Piece
17B102=R16	right (R)	16 mm	560 mm	4 mm	Piece
17B102=L20	left (L)	20 mm	560 mm	4 mm	Piece
17B102=R20	right (R)	20 mm	560 mm	4 mm	Piece



### (2) Thigh side bar

Reference number 17B4

Upper side bar

### Technical data

Article number	System width	Length	Thickness	Quantity unit
17B4=16	16 mm	410 mm	4 mm	Piece
17B4=20	20 mm	410 mm	4 mm	Piece



## System side bar set

Reference number 17B84

Concave, consisting of two 17B86 upper side bars and one left and one right 17B87 lower side bar, with Ottobock special adhesive

### Technical data

Article number	System width	Thickness	Quantity unit
17B84=16	16 mm	4 mm	Set
17B84=20	20 mm	4 mm	Set

### Information material

647G2

Instructions for use –  
system/leg bars

## Components of 17B84



### (1) Thigh side bar

Reference number 17B86

Thigh side bar for the 17B84 system side bar set

### Technical data

Article number	System width	Length	Thickness	Quantity unit
17B86=16	16 mm	410 mm	4 mm	Piece
17B86=20	20 mm	410 mm	4 mm	Piece



### (2) Lower leg side bar

Reference number 17B87

Lower leg side bar for the 17B84 system side bar set

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B87=L16	left (L)	16 mm	450 mm	4 mm	Piece
17B87=R16	right (R)	16 mm	450 mm	4 mm	Piece
17B87=L20	left (L)	20 mm	450 mm	4 mm	Piece
17B87=R20	right (R)	20 mm	450 mm	4 mm	Piece



# Bars/bar accessories

Steel

## Accessory for 17B40, 17B84



### Special adhesive

Reference number 636W18

- For adhering metal to wood
- Especially for unilateral bar systems and E-MAG knee joints
- Base: epoxy resin and pigments (A), polyaminoamide (B)
- Pasty consistency
- Highest strength values when cured between 40–120° C
- In conjunction with 636W19 hardener
- Solvent-free

#### Information material

646F297=GB

Poster: adhesives, putties, varnishes and thinners



#### Technical data

Article number	Net contents	Packaging
636W18	0.1 kg	Tube



### Hardener

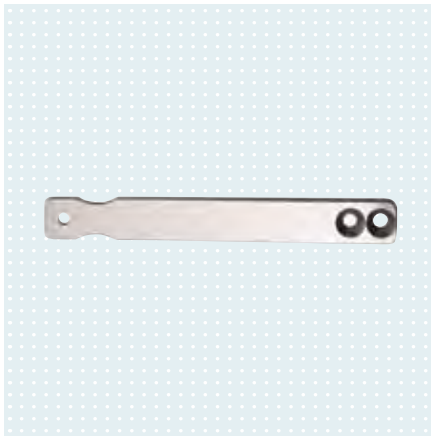
Reference number 636W19

- For 636W18 special adhesive
- Pasty consistency
- Good full curing



#### Technical data

Article number	Net contents	Packaging
636W19	0.1 kg	Tube



## Lamination bar

Reference number 17LS3



### Technical data

Article number	Length	Width	Thickness	Material	Quantity unit
17LS3=10	80 mm	10 mm	5 mm bottom/3 mm top	Stainless steel	Piece
17LS3=12	80 mm	12 mm	5 mm bottom/3 mm top	Stainless steel	Piece
17LS3=14	100 mm	14 mm	6 mm bottom/2.5 mm top	Stainless steel	Piece
17LS3=16	130 mm	16 mm	6 mm bottom/3 mm top	Stainless steel	Piece
17LS3=20	130 mm	20 mm	6 mm bottom/3 mm top	Stainless steel	Piece

### Information material

646F595=EN_MASTER	Ankle joints overview
646F596=EN_MASTER	Knee joints overview
646F465=ALL_INT	AFO selection guide
647G1425=ALL_INT	17LS3 / 17LV3 / 17SB100 / 17SL100 instructions for use



## Connection piece with lug

Reference number 17B83

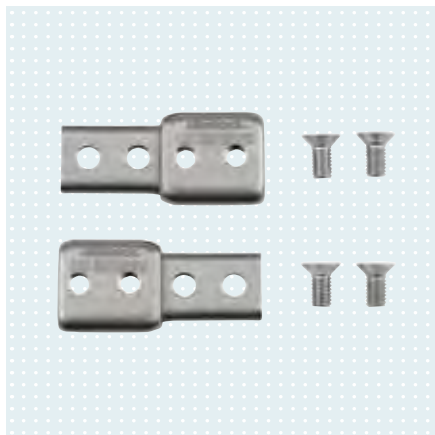
As connection between system hip joint and pelvic band

### Technical data

Article number	For system width	Length	Quantity unit
17B83=16	16 mm	150 mm	Piece
17B83=20	20 mm	150 mm	Piece

# Bars/bar accessories

Steel



## System compensation piece

Reference number 17B8

To compensate for the difference in length between the system knee and hip joints with and without lock, can be used for contoured joints with restrictions

### Technical data

Article number	For system width	Quantity unit
17B8=16	16 mm	Pair
17B8=20	20 mm	Pair



## Connector with lug

Reference number 17Y61

### Technical data

Article number	For system width	Quantity unit
17Y61=16	16 mm	Piece
17Y61=20	20 mm	Piece



## System lamination bar

Reference number 17Y128

The system lamination bars are glued with Ottobock special adhesive.

### Technical data

Article number	System width	Length	Thickness	Material	Quantity unit
17Y128=16X80	16 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=20X80	20 mm	80 mm	4 mm	Stainless steel	Piece
17Y128=16X100	16 mm	100 mm	4 mm	Stainless steel	Piece
17Y128=20X100	20 mm	100 mm	4 mm	Stainless steel	Piece

- ⚠ Caution! The system lamination bars always have to be used in pairs in the leg orthosis. Unilateral use can cause the lamination bar to break due to overloading.

### Information material

646F465=ALL\_INT

AFO selection guide



## System lamination bar with contoured calf

Reference number 17Y129

The system lamination bars are glued with Ottobock special adhesive.

### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17Y129=L16	left (L)	16 mm	100 mm	4 mm	Piece
17Y129=R16	right (R)	16 mm	100 mm	4 mm	Piece
17Y129=L20	left (L)	20 mm	100 mm	4 mm	Piece
17Y129=R20	right (R)	20 mm	100 mm	4 mm	Piece

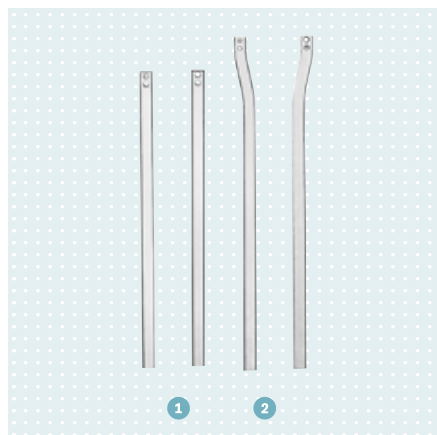
- ⓘ Caution! The system lamination bars always have to be used in pairs in the leg orthosis. Unilateral use can cause the lamination bar to break due to overloading.

### Information material

646F465=ALL\_INT AFO selection guide

# Bars/bar accessories

## Titanium



### System side bar set

Reference number 17B38

Flat, consisting of two 17B4 and 17B4=T upper side bars and one 17B5 and 17B5=T lower side bar each for the left and right sides, with Ottobock special adhesive

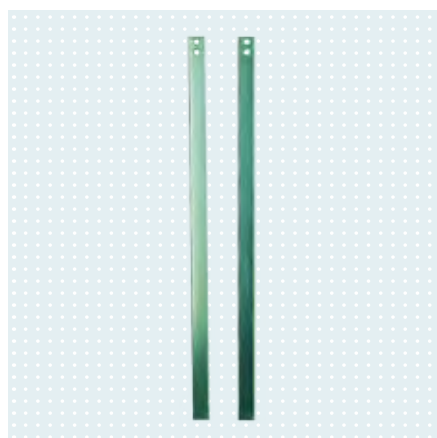
#### Technical data

Article number	System width	Thickness	Quantity unit
17B38=16-T	16 mm	4 mm	Set
17B38=20-T	20 mm	4 mm	Set

#### Information material

646F465=ALL_INT	AFO selection guide
646F595=EN_MASTER	Ankle joints overview
646F596=EN_MASTER	Knee joints overview
647G2	Instructions for use – system/leg bars

## Components of 17B38



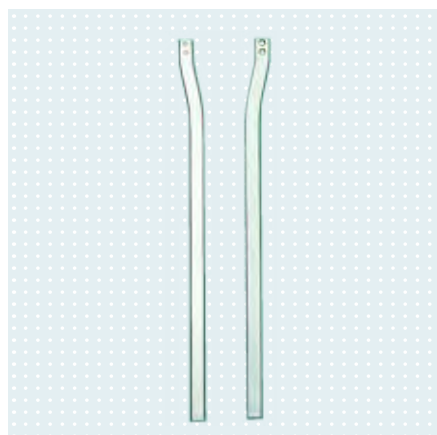
### (1) Thigh side bar

Reference number 17B4

Upper side bar

#### Technical data

Article number	System width	Length	Thickness	Quantity unit
17B4		410 mm	4 mm	Piece
17B4=16	16 mm	410 mm	4 mm	Piece
17B4=16-T	16 mm	410 mm	4 mm	Piece
17B4=20	20 mm	410 mm	4 mm	Piece
17B4=20-T	20 mm	410 mm	4 mm	Piece



### (2) Lower leg side bar

Reference number 17B5

#### Technical data

Article number	Side	System width	Length	Thickness	Quantity unit
17B5=L16	left (L)	16 mm	450 mm	4 mm	Piece
17B5=R16	right (R)	16 mm	450 mm	4 mm	Piece
17B5=L16-T	left (L)	16 mm	450 mm	4 mm	Piece
17B5=R16-T	right (R)	16 mm	450 mm	4 mm	Piece
17B5=L20	left (L)	20 mm	450 mm	4 mm	Piece
17B5=R20	right (R)	20 mm	450 mm	4 mm	Piece
17B5=L20-T	left (L)	20 mm	450 mm	4 mm	Piece
17B5=R20-T	right (R)	20 mm	450 mm	4 mm	Piece

## Accessory for 17B38



### Information material

646F297=GB

Adhesives, putties,  
varnishes and thinners  
poster

## Special adhesive

Reference number 636W18

- For adhering metal to wood
- Especially for unilateral bar systems and E-MAG knee joints
- Base: epoxy resin and pigments (A), polyaminoamide (B)
- Pasty consistency
- Highest strength values when cured between 40–120° C
- In conjunction with 636W19 hardener
- Solvent-free



### Technical data

Article number	Net contents	Packaging
636W18	0.1 kg	Tube



## Hardener

Reference number 636W19

- For 636W18 special adhesive
- Pasty consistency
- Good full curing

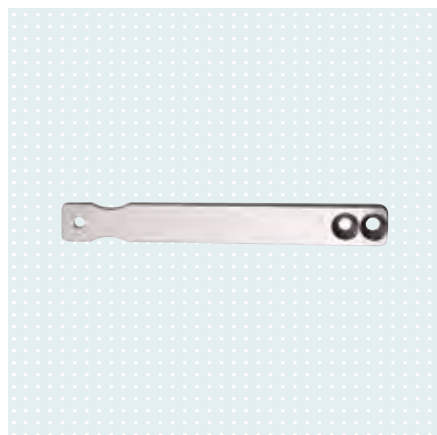


### Technical data

Article number	Net contents	Packaging
636W19	0.1 kg	Tube

# Bars/bar accessories

Titanium



## Lamination bar

Reference number 17LS3

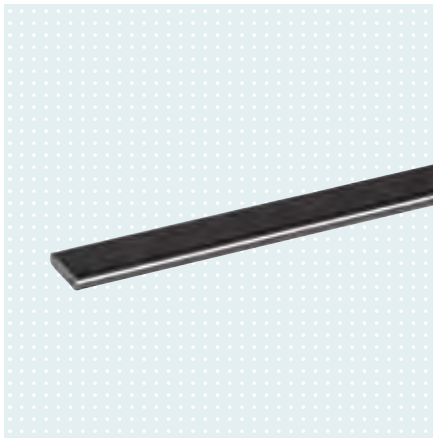


### Technical data

Article number	Length	Width	Thickness	Material	Quantity unit
17LS3=10-T	80 mm	10 mm	5 mm bottom/3 mm top	Titanium	Piece
17LS3=12-T	80 mm	12 mm	5 mm bottom/3 mm top	Titanium	Piece
17LS3=14-T	100 mm	14 mm	6 mm bottom/2.5 mm top	Titanium	Piece
17LS3=16-T	130 mm	16 mm	6 mm bottom/3 mm top	Titanium	Piece
17LS3=20-T	130 mm	20 mm	6 mm bottom, 3 mm top	Titanium	Piece

### Information material

646F595=EN_MASTER	Ankle joints overview
646F596=EN_MASTER	Knee joints overview
646F465=ALL_INT	AFO selection guide
647G1425=ALL_INT	17LS3 / 17LV3 / 17SB100 / 17SL100 instructions for use



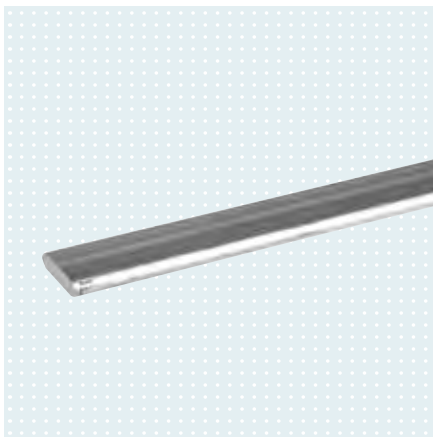
## Stainless steel profile rod

Reference number 651P4

Suitable for fabricating system bars, with rounded edges, strength of approx. 800–950 N/mm<sup>2</sup>, spot weldable

### Technical data

Article number	Length	Width	Thickness
651P4=16	2,000 mm	16 mm	4 mm
651P4=20	2,000 mm	20 mm	4 mm



## Light metal profile bar

Reference number 605P8

Suitable for fabricating system splints, with rounded edges, strength approx. 400 N/mm<sup>2</sup>

### Technical data

Article number	Length	Width	Thickness	For system width
605P8=14	1000 mm	14 mm	5 mm	14 mm
605P8=16	2,000 mm	16 mm	5 mm	16 mm
605P8=20	2,000 mm	20 mm	5 mm	20 mm





# Other

All other components, from arm bars to correction joint systems, are presented in this section.



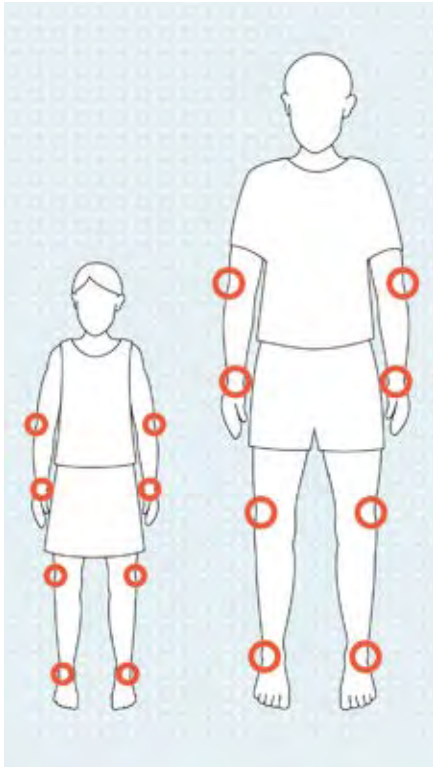
# Other

## Correction system joints



### Information material

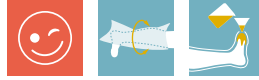
646D449=EN_INT	17BK1/17BK2 information for practitioners
646D537=ALL_INT	17BK1 / 17BK2 Quick start guide
647G482	17BK1 instructions for use



## Correction system joints

Reference number 17BK1

Static joints for positioning orthoses



### Technical data

Article number	Medial support	Side	System width	Material	Quantity unit
17BK1=L1	17BK3=18	left (L)	20 mm	Aluminium	Piece
17BK1=R1	17BK3=18	right (R)	20 mm	Aluminium	Piece
17BK1=L2	17BK3=18	left (L)	16 mm	Aluminium	Piece
17BK1=R2	17BK3=18	right (R)	16 mm	Aluminium	Piece
17BK1=L3	17BK3=14	left (L)	14 mm	Aluminium	Piece
17BK1=R3	17BK3=14	right (R)	14 mm	Aluminium	Piece
17BK1=L4	17BK3=14	left (L)	12 mm	Aluminium	Piece
17BK1=R4	17BK3=14	right (R)	12 mm	Aluminium	Piece

### Size recommendation

User height	Wrist	Elbow joint	Knee joint	Ankle joint
Child up to 1 m	=L/R4	=L/R4	=L/R4	=L/R4
Child 1 to 1.40 m	=L/R4	=L/R3	=L/R3	=L/R3
Adults up to 1.60 m	=L/R4	=L/R3	=L/R2	=L/R2
Adults 1.60 to 1.90 m	=L/R3	=L/R2	=L/R1	=L/R1

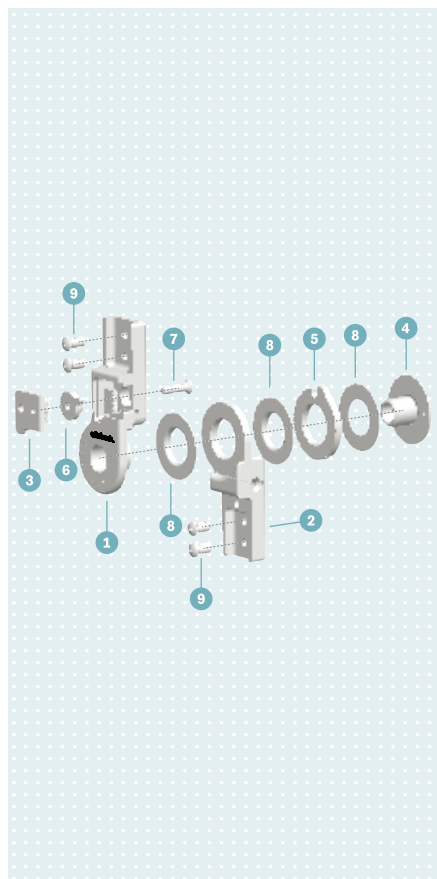
- Delivery condition: the joint is supplied with a wrench for set-up and adjustment.



### Practical recommendation 17BK1

Attention: This information is only a recommendation. The correct size for the respective patient must be determined and specified by the O&P professional in each case. The joints are used individually or in pairs depending on the application. We recommend always using a medial support, e.g., an integrated plastic joint. The produce must be used bilaterally (in pairs) for the knee and ankle joints. The left/right side indications refer to application of the joints on the wrist, knee joint or ankle joint. The sides must be reversed for elbow applications to accommodate the anatomical shape of the elbow (right to left and left to right).

## Spare parts for 17BK1



## (1) Upper joint section

Reference number 17X14

## Technical data

Article number	Spare part for	Side	Quantity unit
17X14=L-1	17BK1=L1	left (L)	Piece
17X14=R-1	17BK1=R1	right (R)	Piece
17X14=L-2	17BK1=L2	left (L)	Piece
17X14=R-2	17BK1=R2	right (R)	Piece
17X14=L-3	17BK1=L3	left (L)	Piece
17X14=R-3	17BK1=R3	right (R)	Piece
17X14=L-4	17BK1=L4	left (L)	Piece
17X14=R-4	17BK1=R4	right (R)	Piece

## (2) Lower joint section

Reference number 17U14

## Technical data

Article number	Spare part for	Side	Quantity unit
17U14=L-1	17BK1=L1	left (L)	Piece
17U14=R-1	17BK1=R1	right (R)	Piece
17U14=L-2	17BK1=L2	left (L)	Piece
17U14=R-2	17BK1=R2	right (R)	Piece
17U14=L-3	17BK1=L3	left (L)	Piece
17U14=R-3	17BK1=R3	right (R)	Piece
17U14=L-4	17BK1=L4	left (L)	Piece
17U14=R-4	17BK1=R4	right (R)	Piece

## (3) Lock cover

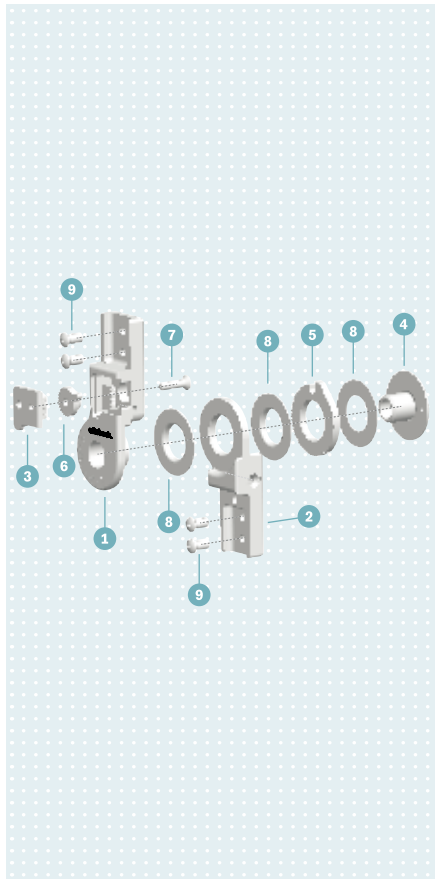
Reference number 30Y154

## Technical data

Article number	Spare part for	Side	Quantity unit
30Y154=L1	17BK1=L1	left (L)	Piece
30Y154=R1	17BK1=R1	right (R)	Piece
30Y154=L2	17BK1=L2	left (L)	Piece
30Y154=R2	17BK1=R2	right (R)	Piece
30Y154=L3	17BK1=L3	left (L)	Piece
30Y154=R3	17BK1=R3	right (R)	Piece
30Y154=R4	17BK1=R4	right (R)	Piece
30Y154=L4	17BK1=L4	left (L)	Piece

# Other

## Correction system joints



### (4) Joint nut

Reference number 30Y156

#### Technical data

Article number	Spare part for	Quantity unit
30Y156=1	17BK1=L1 17BK1=R1	Piece
30Y156=2	17BK1=L2 17BK1=R2	Piece
30Y156=3	17BK1=L3 17BK1=R3	Piece
30Y156=4	17BK1=L4 17BK1=R4	Piece

### (5) Gear wheel

Reference number 30Y157

#### Technical data

Article number	Spare part for	Quantity unit
30Y157=1	17BK1=L1 17BK1=R1	Piece
30Y157=2	17BK1=L2 17BK1=R2	Piece
30Y157=3	17BK1=L3 17BK1=R3	Piece
30Y157=4	17BK1=L4 17BK1=R4	Piece

### (6) Set wheel with lever

Reference number 30Y212

#### Technical data

Article number	Spare part for	Quantity unit
30Y212=1	17BK1=L1 17BK1=R1 17BK1=L2 17BK1=R2 17BK1=L3 17BK1=R3	Piece
30Y212=2	17BK1=L4 17BK1=R4	Piece

### (7) Phillips countersunk head screw

Reference number 501T19

#### Technical data

Article number	Spare part for	Thread	Length	Material
501T19=M3X12-1	17BK1=L4 17BK1=R4	M3	12 mm	Stainless steel
501T19=M4X14-1	17BK1=L2 17BK1=R2 17BK1=L3 17BK1=R3	M4	14 mm	Stainless steel
501T19=M4X16-1	17BK1=L1 17BK1=R1	M4	16 mm	Stainless steel

## (8) Washer set

Reference number 17BK1=S

### Technical data

Article number	Spare part for	Quantity unit
17BK1=S-1	17BK1=S-1 17BK1=L1 17BK1=R1	Piece
17BK1=S-2	17BK1=L2 17BK1=R2	Piece
17BK1=S-3	17BK1=L3 17BK1=R3	Piece
17BK1=S-4	17BK1=L4 17BK1=R4	Piece

## (9) Phillips oval countersunk head screw

Reference number 501S86

### Technical data

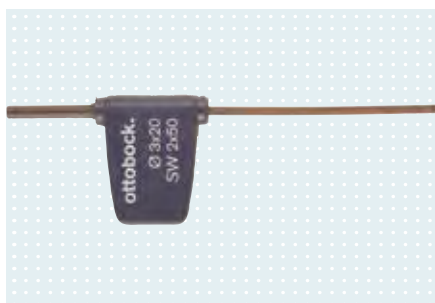
Article number	Spare part for	Head Ø	Length	Material	Quantity unit
501T7=7.5X11XM5	17BK1=L3 17BK1=R3 17BK1=L4 17BK1=R4	7,5 mm	11 mm	Stainless steel	Piece

## (9) Phillips oval countersunk head screw

Reference number 501T7

### Technical data

Article number	Spare part for	Head Ø	Length	Material	Quantity unit
501T7=7.5X11XM5	17BK1=L1 17BK1=R1 17BK1=L2 17BK1=R2	7,5 mm	11 mm	Stainless steel	Piece



## Allen wrench

Reference number 710H10

The Allen wrench with wing handle is available as a spare part and is used for adjusting various modular knee joints and modular hip joints.

### Technical data

Article number
710H10=2X3

# Other

## Correction system joints

### Accessory for 17BK1



#### Information material

646D449=EN_INT	17BK1/17BK2 information for practitioners
646D537=ALL_INT	17BK1 / 17BK2 Quick start guide
647G605	17BK2 Instructions for use

## Dynamic unit for correction system joint

Reference number 17BK2

The 17BK2 dynamic unit is available for all four sizes of the 17BK1 static correction system joint and, depending on the joint size, offers a maximum spring force of approx. 10 Nm. Using the 17BK2 dynamic unit allows for extension or flexion yielding, depending on the joint and indications. Spring force is used to slowly bring the joint back into the desired position.

The spring force is continuously adjustable, allowing for individual dynamic treatment of contractures



#### Technical data

Article number	Accessories for	Spring tension	Quantity unit
17BK2=L1	17BK1=L1	~ 10 Nm	Piece
17BK2=L2	17BK1=L2	~ 6 Nm	Piece
17BK2=L3	17BK1=L3	~ 6 Nm	Piece
17BK2=L4	17BK1=L4	~ 3 Nm	Piece
17BK2=R1	17BK1=R1	~ 10 Nm	Piece
17BK2=R2	17BK1=R2	~ 6 Nm	Piece
17BK2=R3	17BK1=R3	~ 6 Nm	Piece
17BK2=R4	17BK1=R4	~ 3 Nm	Piece

### Spare parts for 17BK2

#### (1) Cover

Reference number 30Y183

#### Technical data

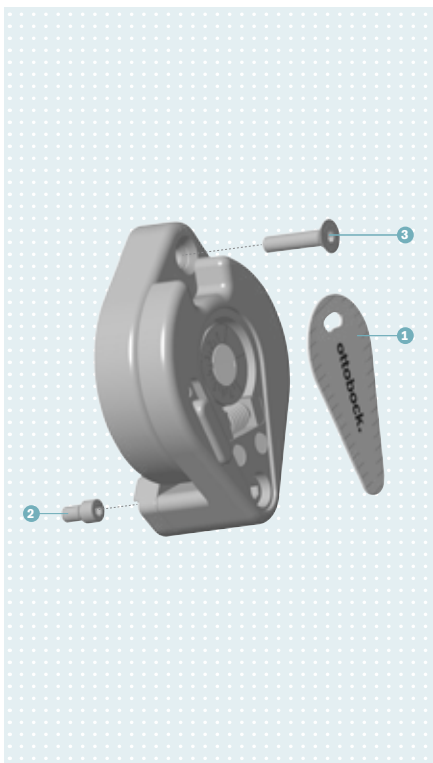
Article number	Quantity unit
30Y183=1	Piece
30Y183=2	Piece
30Y183=4	Piece

#### (2) Location bolt

Reference number 30Y192

#### Technical data

Article number	Quantity unit
30Y192=1	Piece
30Y192=2	Piece
30Y192=4	Piece





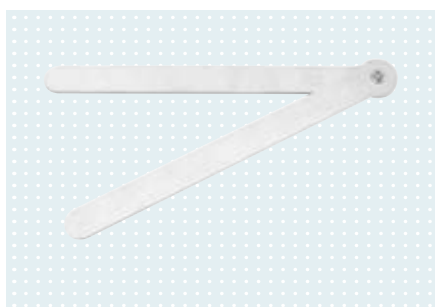
### (3) Flat head screw

Reference number 501S84

#### Technical data

Article number	Quantity unit
501S84=M5X22	Piece
501S84=M4X18	Piece
501S84=M4X17	Piece
501S84=M3X14	Piece

### Accessory for 17BK1



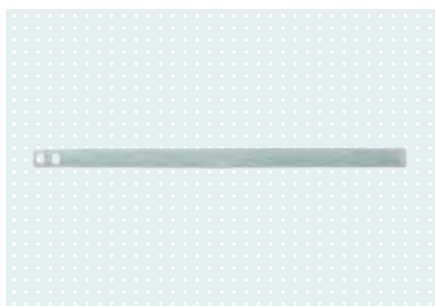
### Medial support for correction system joint

Reference number 17BK3

#### Technical data

Article number	Material	Quantity unit
17BK3=14	Aluminium	Piece
17BK3=18	Aluminium	Piece

- Please note that the size and side of the static and dynamic units have to be identical.



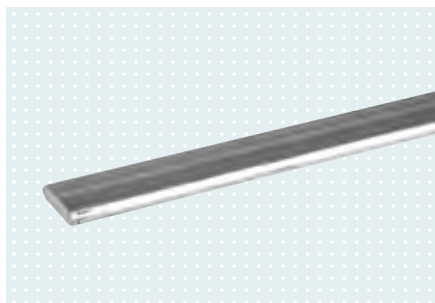
### Side bar

Reference number 17F52

Side bar for joints

#### Technical data

Article number	Accessories for	Length	Width	Thickness	Material	Quantity unit
17F52=12X3X220	17BK1=L4 17BK1=R4	220 mm	12 mm	3 mm	Aluminium	Piece
17F52=14X3X220	17BK1=L3 17BK1=R3	220 mm	14 mm	3 mm	Aluminium	Piece



### Light metal profile bar

Reference number 605P8

- For fabricating system bars
- Strength: approx. 400 N/mm<sup>2</sup>
- Good malleability by bending
- Round edges

#### Technical data

Article number	Accessories for	Length	Width	Thickness	Material
605P8=16	17BK1=L2 17BK1=R2	2,000 mm	16 mm	5 mm	Aluminium
605P8=20	17BK1=L1 17BK1=R1	2,000 mm	20 mm	5 mm	Aluminium



# Other

## Correction system joints

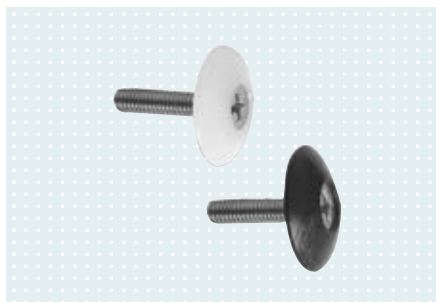


### Oval head screw, slotted and partially threaded

Reference number 501A29

#### Technical data

Article number	Accessories for	Material	Quantity unit
501A29=12X7XM4	17BK1=L2 17BK1=R2 17BK1=L3 17BK1=R3	Stainless steel	Piece
501A29=14X9.5XM6	17BK1=L1 17BK1=R1	Stainless steel	Piece



### Phillips head screw

Reference number 29Y27

The Phillips head screw is available with a white or black plastic head and is suitable for fastening straps.

#### Technical data

Article number	Accessories for	Thread	Length	Colour
29Y27=M4X20-6	17BK1=L4 17BK1=R4	M4	20 mm	White



### Double joint arm bars

Reference number 16U4

The double joint arm bars are free-moving. The bar profile is half-round and hollow. Joint bar length: 270 mm (top/bottom), joint bar width/thickness: 14/2 mm, suitable for orthoses and prostheses.

#### Technical data

Article number	Material	Quantity unit
16U4	Stainless steel	2 pair

#### Information material

647G2

Instructions for use –  
system/leg bars



### Double joint arm bars

Reference number 16U5

The double joint arm bars are free-moving with a gear ratio. The bar profile is half-round and hollow. Bar length: 270 mm (top/bottom), length of the step-up bar: 105 mm.

#### Technical data

Article number	Material	Quantity unit
16U5	Stainless steel	Pair

#### Information material

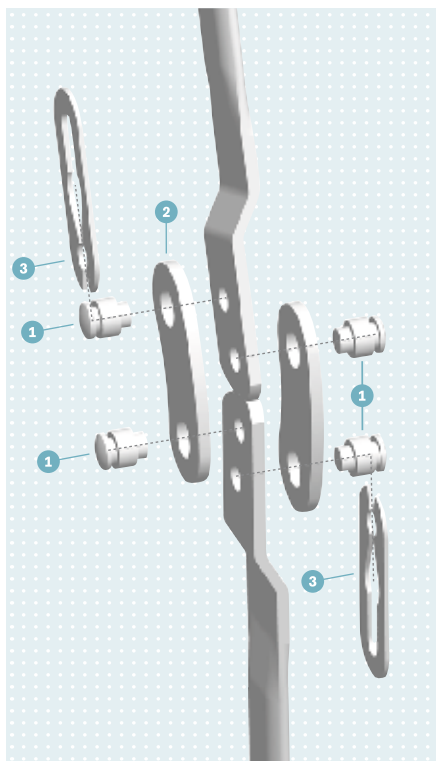
647G2

Instructions for use –  
system/leg bars

# Other

## Arm bars

### Spare parts for 16U4, 16U5



#### (1) Joint bolt, hardened

Reference number 16Y5

##### Technical data

Article number	Quantity unit
16Y5	Piece

#### (2) Joint plate

Reference number 16Y9

##### Technical data

Article number	Material	Quantity unit
16Y9	Stainless steel	Piece

#### (3) Spring cap

Reference number 16Y6

##### Technical data

Article number	Material	Quantity unit
16Y6	Stainless steel	Piece



## Arm bar with joint

Reference number 16U7

Free motion joint in flexion direction. Width: 14 mm. Material thickness: 2.45 mm. Overall length: 307 mm. Package contents: Two pieces.

### Technical data

Article number	Width	Length from joint center	Material thickness	Material	Quantity unit
16U7	14 mm	307 mm	2.45 mm	Stainless steel	Pair

## Spare parts for 16U7



## Joint

Reference number 17F48

Free motion ankle joint

### Technical data

Article number	Material	Quantity unit
17F48-5	Stainless steel	Piece



## Bushing

Reference number 17Y17

### Technical data

Article number	Table helper variable	Material	Quantity unit
17Y17=6X8X2.4	16U7	Brass	Piece



## Bearing nut

Reference number 17Y93

### Technical data

Article number	Spare part for	Attachment Ø	Shank length	Quantity unit
17Y93=6X5.2XM4	16U7	6 mm	5.2 mm	Piece

# Other

## Arm bars



### Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	Spare part for	Length	Thread	Material	Quantity unit
501S32=M4X10X7.5	16U7	7.5 mm	M4	Stainless steel	Piece

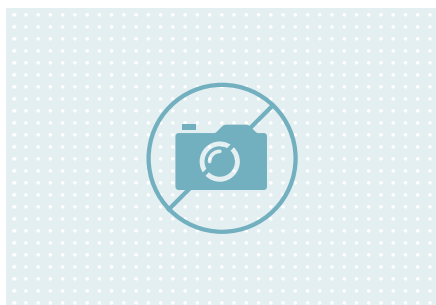


### Rivet pin

Reference number 506A12

#### Technical data

Article number	Spare part for	Quantity unit
506A12=4X6	16U7	Piece

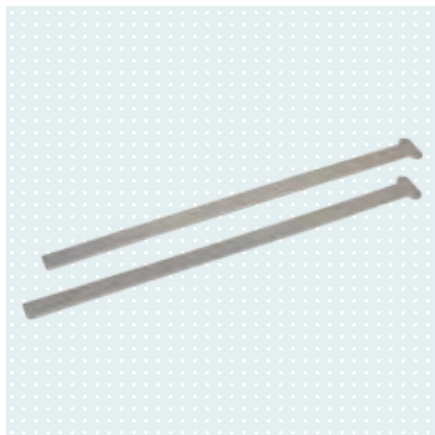


### Upper arm bar

Reference number 16Y64

#### Technical data

Article number	Spare part for	Quantity unit
16Y64	16U7	Piece



## Arm bar

Reference number 16U8

Free motion joint in flexion direction.

### Technical data

Article number	Width	Overall length	Material thickness	Material	Quantity unit
16U8	14 mm	300 mm	2.45 mm	Stainless steel	Pair

## Spare parts for 16U8



## Joint

Reference number 17F48

### Technical data

Article number	Material	Quantity unit
17F48=5	Edelstahl	piece



## Bushing

Reference number 17Y17

### Technical data

Article number	Table helper variable	Material	Quantity unit
17Y17=6X8X2.4	16U7	Brass	Piece



## Bearing nut

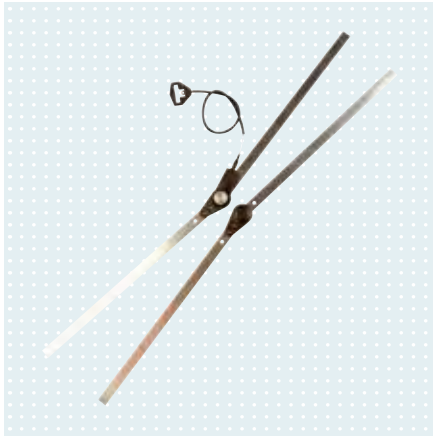
Reference number 17Y93

### Technical data

Article number	Spare part for	Attachment Ø	Shank length	Quantity unit
17Y93=6X5.2XM4	16U8	6 mm	5.2 mm	Piece

# Other

## Arm bars



### Elbow joint bars

Reference number 16X12

Two joint bars for arm prostheses, usable on both sides. One joint bar has a swivelling cable lock and 18 locking positions in 7.2° increments. The other joint bar has a flat bar profile and no lock.

#### Technical data

Article number	Head Ø	Material	Quantity unit
16X12	30 mm	Stainless steel	Pair

#### Information material

647G472 12R5 / 16X12 / 16X13 / 16X14 / 16Y27  
instructions for use

## Components of 16X12



### Elbow joint bar with cable lock

Reference number 16X13

Joint with swivelling cable lock, 18 locking positions in 7.2° increments, flat bar profile, suitable for both sides, for arm prostheses. Head diameter of 30 mm, joint bar length of 320 mm (top and bottom), joint bar width/thickness: 14 / 2 mm.

#### Technical data

Article number	Head Ø	Material	Quantity unit
16X13	30 mm	Stainless steel	Piece

#### Information material

647G472 12R5 / 16X12 / 16X13 / 16X14 / 16Y27  
instructions for use



### Elbow joint bar without lock

Reference number 16X14

The joint is freely moveable with a flat joint bar profile. Head diameter of 30 mm, joint bar length of 320 mm (top and bottom), joint bar width/thickness: 14 / 2 mm.

#### Technical data

Article number	Head Ø	Material	Quantity unit
16X14	30 mm	Stainless steel	Piece

#### Information material

647G472	12R5 / 16X12 / 16X13 / 16X14 / 16Y27 instructions for use
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### Spare parts for 16X12



### Joint Piece with Cable Lock

Reference number 16Y27

Joint piece with cable lock. 18 locking positions in 7.2° increments, suitable for both sides. With joint bracket and socket screws (oval head screws). Compatible with 12K27, 16X12 and 16X13.

#### Technical data

Article number	Quantity unit
16Y27	Piece



### Joint Piece without Lock

Reference number 16Y31

Joint piece without lock, compatible with 16X12 and 16X14. With joint bracket and socket screws.

#### Technical data

Article number	Quantity unit
16Y31=N	Piece



# Other

## Arm bars



### Pull cable

Reference number 16Y26

The pull cable with threaded connection is a spare part for the 12K27 elbow component and the 16X12 and 16X13 elbow joint bars.

#### Technical data

Article number	Quantity unit
16Y26	Piece



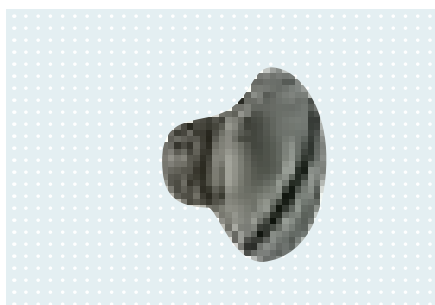
### Stirrup with wedge lock

Reference number 21Y79

Belt flap with wedge lock, compatible with 16X12 and 16X13 models.

#### Technical data

Article number	Quantity unit
21Y79	Piece



### Socket screw

Reference number 501S59

#### Technical data

Article number	Quantity unit
501S59	Piece



## Arm bars

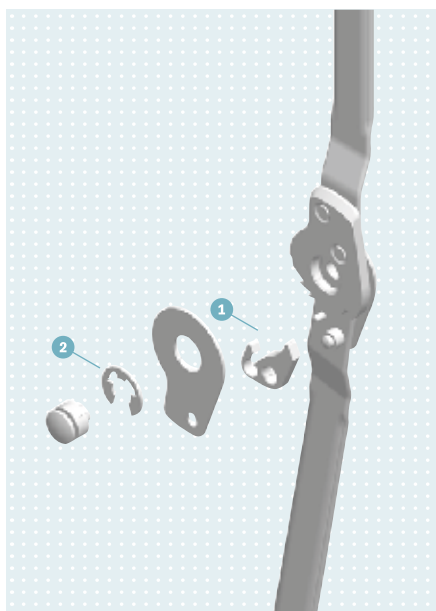
Reference number 16X4

Joints with automatic ratchet lock, locks only in extension direction, releases at a max. flexion of approx. 135°, concave half-round bar profile

### Technical data

Article number	Bar width	Joint bar thickness	Head Ø	Material	Quantity unit
16X4	14 mm	2 mm	26 mm	Stainless steel	Piece

## Spare parts for 16X4



### (1) Lock latch

Reference number 16Y7

#### Technical data

Article number	Material	Quantity unit
16Y7	Stainless steel	Piece

### (2) Lock washer

Reference number 16Y8

#### Technical data

Article number	Material	Quantity unit
16Y8	Stainless steel	Piece



## Arm bar

Reference number 16X8

This joint type is offered in one universal size and in pairs. It features a free motion medial bar. Different incremental flexion and extension settings of the bar are possible (in 30° steps): 180°; 150°; 120°; 90°; 60°; 30°

### Technical data

Reference number	Bar length	Bar width	Quantity unit
16X8	457 mm	12.7 mm	Pair

- Indicated for example in case of: Fractures in the area of the elbow joint. Postoperative follow-up treatment with flexion/extension settings defined by the physician

# Other

## Arm bars



### Positioning joint

Reference number 17B70

Adjustable in 8° increments, used with adjustable positioning splints and static correction orthoses

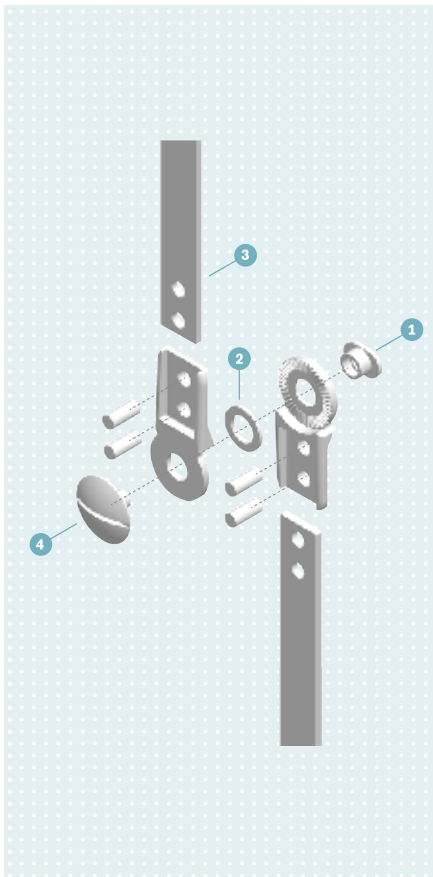
#### Technical data

Article number	For system width	Material	Quantity unit
17B70=12	12 mm	Stainless steel	Piece

#### Information material

647G2 Instructions for use – system/leg bars

## Spare parts for 17B70



### (1) Bearing nut

Reference number 17Y93

#### Technical data

Article number	Spare part for	Insertion length	Profile length	Shank length	Thread	Shoulder Ø	Quantity unit
17Y93=7X4.8XM5	17B70=12	3.55 mm	12 mm	4.8 mm	M5	7 mm	Piece

### (2) Ring

Reference number 18Z3

#### Technical data

Article number	Quantity unit
18Z3	Piece

### (3) Spring band steel profile bar

Reference number 651B1

#### Technical data

Article number	Length	Width	Thickness	Quantity unit
651B1=12	2,000 mm	12 mm	2 mm	Piece

### (4) Slotted truss head screw

Reference number 501S57

#### Technical data

Article number	Quantity unit
501S57	Piece



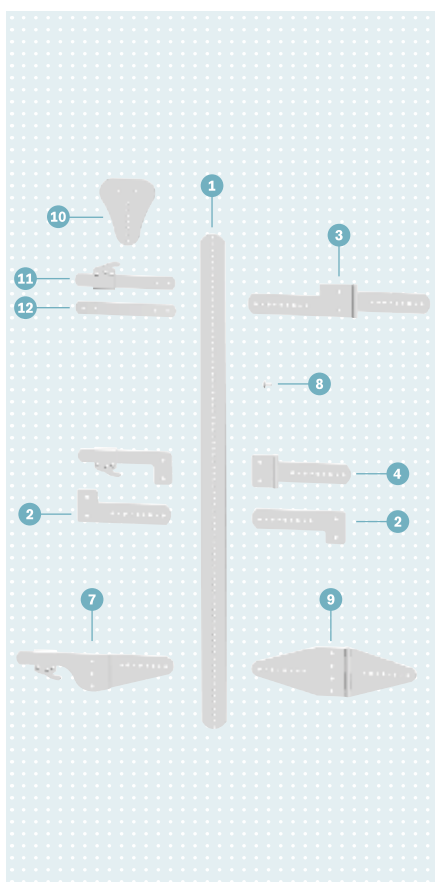
### Kit for Lyon spinal orthosis

Reference number 28R8

#### Technical data

Article number	For age group	Quantity unit
28R8=1	adolescent	Set
28R8=2	adolescent (tall)	Set

### Spare parts for 28R8



### (1) Anterior and posterior uprights

Reference number 29R32

With M4 threaded holes at 7.5 mm intervals

#### Technical data

Article number	Length	Width	Thickness	Material	Package contents	Quantity unit
29R32=2	500 mm	25 mm	4 mm	Aluminium	2 pcs	Piece
29R32=1	600 mm	30 mm	4 mm	Aluminium	2 pcs	Piece

### (2) Connecting element

Reference number 29R60

single-sided, flat

#### Technical data

Article number	Length	Material	Package contents	Quantity unit
29R60=2	105 mm	INOX	2 pcs	Piece
29R60=1	120 mm	INOX	2 pcs	Piece

### (3) Connection hinge

Reference number 29R62

Flat, with unilateral hinge and opposing horizontal rigid connection, offset mounting planes

#### Technical data

Article number	Length	Material	Quantity unit
29R62=2	195 mm	INOX	Piece
29R62=1	220 mm	INOX	Piece

### (4) Hinge

Reference number 29R59

single-sided, flat

#### Technical data

Article number	Length	Material	Quantity unit
29R59=2	110 mm	INOX	Piece
29R59=1	120 mm	INOX	Piece

### (5) Bar closure (not illustrated)

Reference number 29R36

3-position lock

#### Technical data

Article number	Length	Material	Quantity unit
29R36=L	left	INOX	Piece
29R36=R	right	INOX	Piece

### (6) Pelvic closure

Reference number 29R49

Right side, 3-position lock, offset flexible rigid connection on left side

#### Technical data

Article number	Material	Quantity unit
29R49=L	INOX	Piece
29R49=R	INOX	Piece

### (7) Bar closure, flexible

Reference number 29R33

3-position lock

#### Technical data

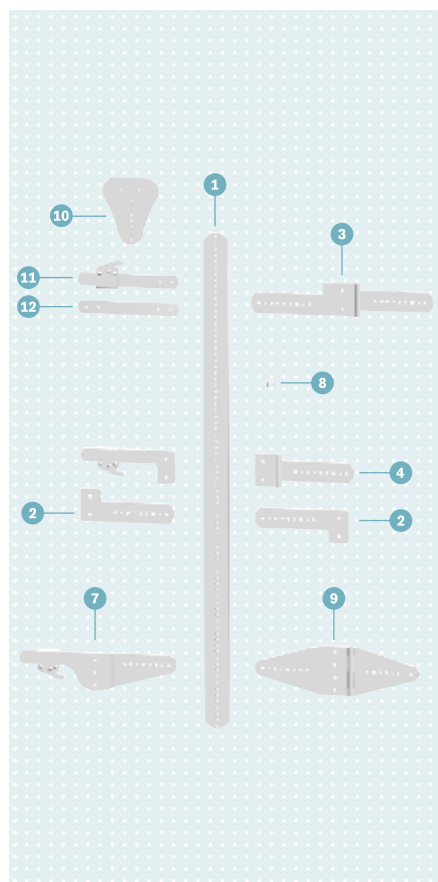
Article number	Size	Length	Material	Quantity unit
29R33=L3	3	100 mm	INOX	Piece
29R33=R3	3	100 mm	INOX	Piece
29R33=L1	1	300 mm	INOX	Piece
29R33=R1	1	300 mm	INOX	Piece

### (8) Flat headed screw

Reference number 501S16

#### Technical data

Article number	Thread	Thread length	Head Ø
501S16=M4X8X10	M4	8 mm	10 mm



### (9) Pelvic hinge

Reference number 29R55

flat

#### Technical data

Article number	Length	Material	Quantity unit
29R55=2	50 mm	INOX	Piece
29R55=1	60 mm	INOX	Piece

### (10) Chest pad

Reference number 29R45

With M4 threaded holes at 7.5 mm intervals

#### Technical data

Article number	Material	Quantity unit
29R45	Aluminium	Piece

Accessory for 28R8

### (11) Bar closure, flexible

Reference number 29R120

#### Technical data

Article number	Accessories for	Size	Length	Quantity unit
29R120=R1	28R8=2 28R8=1	1	200 mm	Piece

### (12) Connecting element

Reference number 29R38

#### Technical data

Article number	Accessories for	Length	Material	Quantity unit
29R38=2	28R8=2	170 mm	Spring band steel	Piece
29R38=1	28R8=1	200 mm	Spring band steel	Piece

# Other

## Kits for spinal orthoses



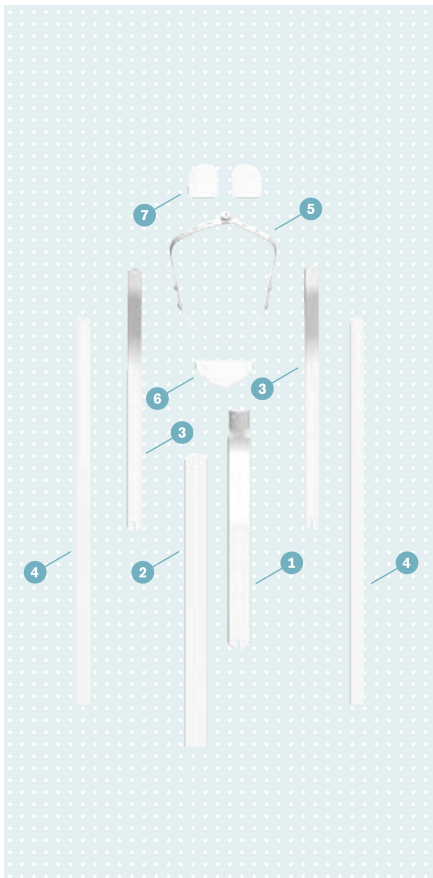
### Kit for Milwaukee spinal orthosis

Reference number 28R10

#### Technical data

Article number	Quantity unit
28R10=3	Set
28R10=2	Set
28R10=1	Set

## Spare parts for 28R10



### (1) Lower anterior upright

Reference number 29R89

#### Technical data

Article number	Length	Width	Thickness	Material	Quantity unit
29R89=2	300 mm	25 mm	4 mm	Aluminium	Piece
29R89=1	300 mm	30 mm	4 mm	Aluminium	Piece

### (2) Lower anterior upright

Reference number 29R92

#### Technical data

Article number	Length	Width	Thickness	Material	Quantity unit
29R92=2	390 mm	25 mm	4 mm	Aluminium	Piece
29R92=1	420 mm	30 mm	4 mm	Aluminium	Piece

### (3) Back splint

Reference number 29R94

#### Technical data

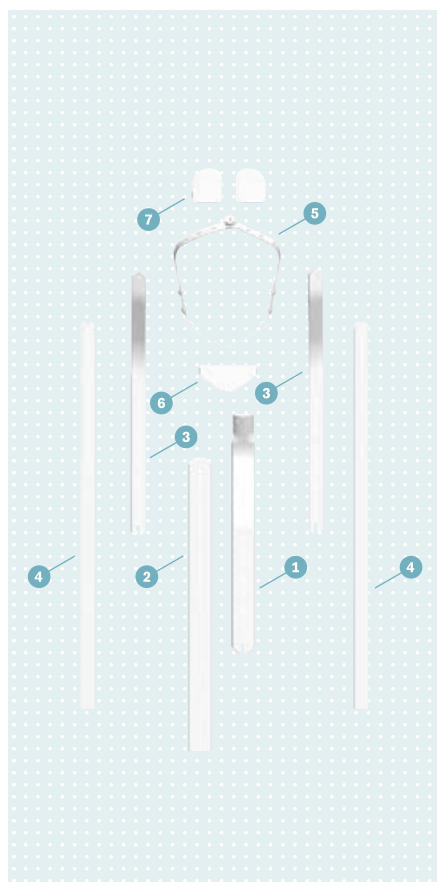
Article number	Length	Width	Thickness	Material	Quantity unit
29R94=1	350 mm	20 mm	4 mm	Aluminium	Pair

### (4) Back splint

Reference number 29R100

#### Technical data

Article number	Length	Width	Thickness	Material	Quantity unit
29R100=3	420 mm	20 mm	4 mm	Aluminium, Steel	Pair
29R100=1	510 mm	20 mm	4 mm	Aluminium, Steel	Pair



### (5) Neck ring (head piece)

Reference number 29R81

#### Technical data

Article number	Material	Quantity unit
29R81=7	INOX	Piece
29R81=6	INOX	Piece
29R81=5	INOX	Piece
29R81=4	INOX	Piece
29R81=3	INOX	Piece
29R81=2	INOX	Piece
29R81=1	INOX	Piece

### (6) Throat Mold

Reference number 29R83

#### Technical data

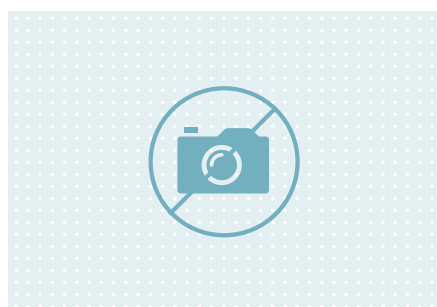
Article number
29R83=1
29R83=3
29R83=2

### (7) Occipital support

Reference number 29R86

#### Technical data

Article number	Size	Material	Colour	Quantity unit
29R86=3	small	Polyethylene	Natural colour	Pair
29R86=2	medium	Polyethylene	Natural colour	Pair
29R86=1	large	Polyethylene	Natural colour	Pair



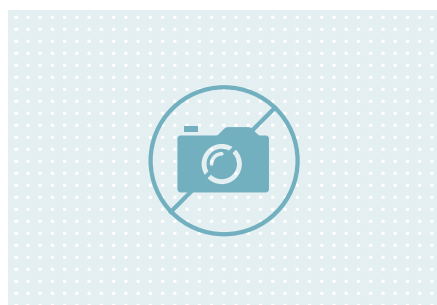
### Knurled nut

Reference number 29R82

Stainless steel for neck ring

#### Technical data

Article number	Quantity unit
29R82	Piece



### Half-round rivets

Reference number 504R5

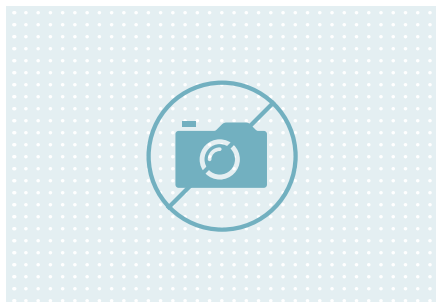
#### Technical data

Article number	Package contents	Quantity unit
504R5=4X6	4 pieces	Piece



# Other

## Kits for spinal orthoses

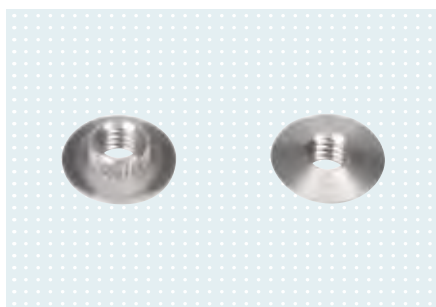


### Flat headed screw

Reference number 501S16

#### Technical data

Article number	Thread	Thread length	Head Ø
501S16=M4X8X10	M4	8 mm	10 mm



### Setting nut/insert nut

Reference number 29C3

Setting nut/inset nut (knurled) made of stainless steel.

#### Technical data

Article number	Thread	Head Ø	Attachment Ø	Length	Order unit
29C3=M4	M4	10 mm	5 mm	3.6 mm	Piece



### Phillips countersunk head screw

Reference number 501T19

#### Technical data

Article number	Thread	Length	Material
501T19=M4X8	M4	8 mm	Stainless steel
501T19=M4X10	M4	10 mm	Stainless steel







# Materials, tools and accessories

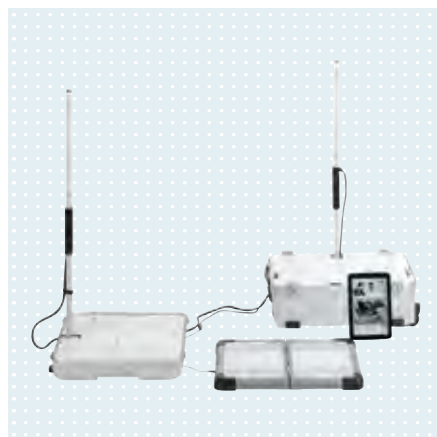
In this section, you will find a selection of materials, tools and accessories that are essential for fabricating cutting-edge orthoses. Please note that not all possible tools or materials are listed in this catalogue. For further tools and materials, please refer to our “Materials for orthopaedic technology” (646K1) and “Planning and Equipping” (646K10) catalogues.



Visit **Ottobock Scandinavia professionals site** to obtain up-to-date product information at any time.

# Materials, tools and accessories

## Alignment aids and measuring technology



### 3D L.A.S.A.R. Posture

Reference number 743L500

The 3D L.A.S.A.R. Posture supports technicians for an optimum prosthetic and orthotic alignment. Cameras take a live recording of the patient standing on the measuring plate and transmit the image to a tablet PC. The tablet displays the horizontal and vertical forces in the form of lines positioned with millimetre accuracy over the patient's image.

#### Technical data

Article number	Width	Depth	Height	Working space required	Electrical connection	Weight
743L500	630 mm	280 mm	520 mm	W x D: 1.800 x 1.800 mm	1x 110 - 240 V N/PE / 50-60 Hz	20 kg

#### Information material

646D1159=EN	743L500 3D L.A.S.A.R. Posture product information
646D1188=EN_HQ	743L500 3D L.A.S.A.R. Posture orthotics tutorial
647G1046	743L500 3D L.A.S.A.R. Posture instructions for use
647G1215	743L500 3D L.A.S.A.R. Posture assembly instructions

#### Scope of delivery

743Y725	Wall holder for camera stand	1	Piece
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#### Static alignment or verification of body posture in:

- Lower limb prosthetics
- Custom lower limb orthotics
- Orthopaedic foot care
- Incorrect posture of pelvis and legs
- Leg length discrepancy
- Physiotherapy
- Rehabilitation
- Cameras take a live recording of the patient standing on the measuring plate and transmit the image to a tablet PC. The tablet displays the measured horizontal and vertical forces in the form of lines positioned with millimetre accuracy over the patient's image. Max. body weight: 150 kg.

#### Prosthetics

- Lower leg prosthetics
- Upper leg prosthetics
- Hip disarticulation prosthetics

#### Orthotics

- Orthopaedic insoles and foot care
- Ankle-foot orthoses
- Knee-ankle-foot orthoses
- Hip-knee-ankle-foot orthoses



### Orthotic alignment aid

Reference number 743A6

- For the three-dimensional alignment of leg orthoses and positioning of knee and ankle joint points on a plaster negative or plaster positive
- For clamping in a vice

#### Technical data

Article number	Width	Depth	Height	Weight
743A6	270 mm	380 mm	770 mm	14 kg

#### Information material

647H416 743A6 orthotic alignment aid instructions for use



### Pivot point adjustment aid

Reference number 743A7

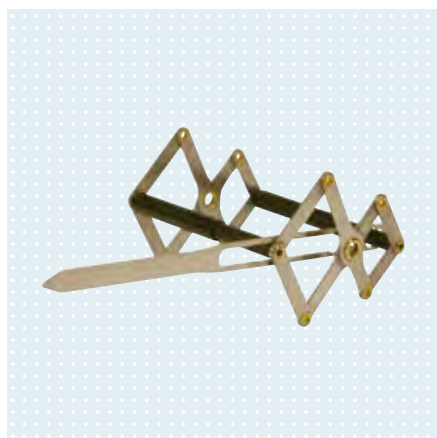
- For determining and establishing the knee and ankle pivot point and reference lines on a plaster positive or negative

#### Technical data

Article number	Material
743A7	Stainless steel

#### Information material

647G147 743A7 pivot point adjustment aid instructions for use



### Knee pivot gauge

Reference number 743A8

- To determine the compromise pivot point according to Nietert (60:40 graduation)
- Rotation indicator included

#### Technical data

Article number	Material
743A8	Steel

#### Information material

647H465 743A8 knee pivot gauge instructions for use

# Materials, tools and accessories

## Alignment aids and measuring technology



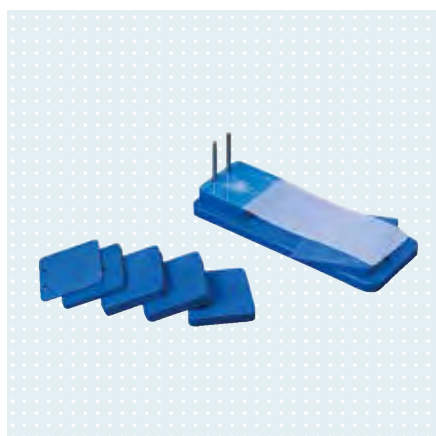
### 50:50 gauge

Reference number 743A80

- For precisely determining the lateral centre line of a prosthetic socket
- Movable arms for prosthetic sockets of various sizes

#### Technical data

Article number	Material
743A80	Steel



### Foot plaster cast device

Reference number 743A9

- For preparing a dimensionally accurate plaster negative of the foot with various heel heights and adjustable tip lift in the forefoot area
- Particularly well suited for AFOs, KAFOs and insoles

#### Technical data

Article number	Material
743A9	Plastic, Stainless steel

#### Information material

647G146	743A9 foot plaster cast device instructions for use
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### Parallel alignment tool

Reference number 743R3

- For aligning and securing knee joint bars

#### Technical data

Article number	Material	Weight
743R3	Steel, nickel-plated	0.37 kg



### Parallel alignment tool

Reference number 743R5

- For aligning and securing polycentric joint bars

#### Technical data

Article number	Material	Weight
743R5	Steel, nickel-plated	0.37 kg



### Ottobock Body callipers

Reference number 743S1

- Callipers for determining body measurements

#### Technical data

Article number	for	Measurement range	Weight
743S1=40		400 mm	0.45 kg
743S1=60		600 mm	0.5 kg
743S1=H	743G5 HIP-Cast plaster device	400 mm	0.48 kg
743S1=S	743G1 SIT-Cast plaster device	600 mm	0.53 kg



### Goniometer

Reference number 743W2

#### Technical data

Article number	Side length	Material	Weight
743W2	150 mm	Plastic	0.02 kg



# Materials, tools and accessories

## Alignment aids and measuring technology



### Hip compass

Reference number 743T3

#### Technical data

Article number	Length	Measurement range	Material	Weight
743T3	340 mm	500 mm	Stainless steel	0.28 kg



### Bubble level

Reference number 743Y32

- Bubble level with plastic arm for leg length check

#### Technical data

Article number	Length	Material	Weight
743Y32	330 mm	Aluminium	0.26 kg



### Height marking gauge

Reference number 742A4

- Fine adjustment, carbide scriber, matt chrome-plated graduation and Vernier scale, precision according to DIN 862

#### Technical data

Article number	Material	Scribing height	Weight
742A4	Tool steel	Up to 300 mm	1.7 kg



### Crosshair laser

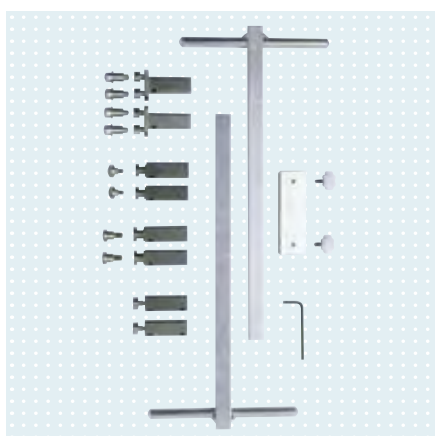
Reference number 743L5

- Automatic self-levelling within seconds
- Exact, fast working without manual alignment
- High-end, bright laser diodes for especially good laser line visibility
- Easy and intuitive operation
- Soft grip for better purchase and comfort
- Stand: 1.1 m
- Applications in orthopaedics: plumb line for plaster casting, prosthetic and orthotic alignment, displaying abduction and adduction positions (angle with respect to the plumb line) and flexion and extension positions, prior/subsequent documentation, displaying the lateral displacement of the spine in the neck area with respect to the intergluteal cleft, checking the level position of the pelvis, visualising body positions and postural problems (e.g. lateral deviation in case of scoliosis; valgus malalignment of legs)

#### Technical data

Article number	Width	Depth	Height	Weight (with batteries)
743L5	64 mm	125 mm	115 mm	0.46 kg

<b>Version</b>	Operating time 5 h, operating temperature - 5 °C to + 40 °C, storage temperature - 20 °C to + 70 °C
<b>Output power</b>	1 mW
<b>Power supply</b>	3x 1,5V LR06 Mignon (AA)
<b>Wavelength</b>	Laser class 2: 635 nm
<b>Colour of housing</b>	Green
<b>Laser light colour</b>	Red
<b>Levelling speed</b>	Less than 4 Seconds
<b>Automatic levelling range</b>	4°
<b>Connection thread</b>	W1/4"
<b>Projection range of laser light</b>	max. 10 m



### Orthotic joint alignment set

Reference number 743R6

- As a tool for the fabrication of lower limb orthoses
- Suitable for the “structural orthosis fabrication” technique according to a drawing and for the lamination resin and deep-drawing techniques according to a plaster model

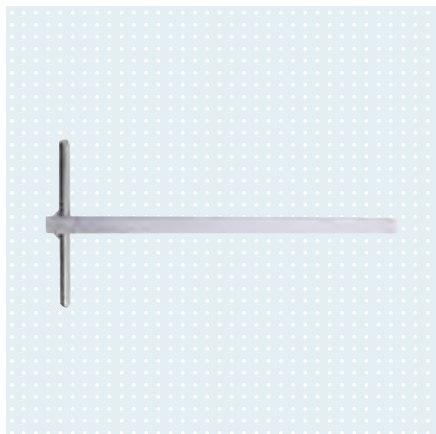
#### Technical data

Article number	Weight
743R6	1 kg

# Materials, tools and accessories

## Alignment aids and measuring technology

### Components of 743R6



#### Alignment axis

Reference number 743Y55

##### Technical data

Article number
743Y55

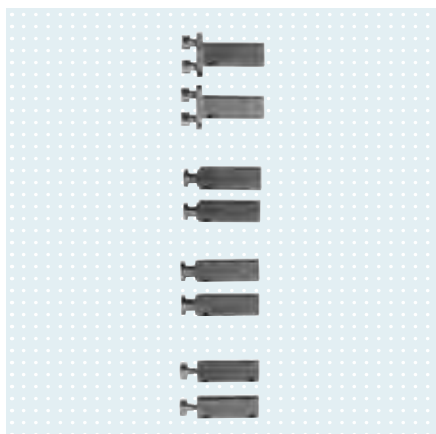


#### Parallel adapter

Reference number 743Y70

##### Technical data

Article number	Width
743Y70=50	50 mm
743Y70=80	80 mm



#### Alignment insert

Reference number 743Y56

##### Technical data

Article number	Size	Material
743Y56=1	1	Stainless steel
743Y56=2	2	Stainless steel
743Y56=3	3	Stainless steel
743Y56=4	4	Stainless steel



### Allen screw with collar

Reference number 743Y72

#### Technical data

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**Article number**

743Y72

---



### Shoulder screw

Reference number 501A1

#### Technical data

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**Article number**

501A1=12X6XM4

501A1=12X8XM6

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**Thread**

M4

M6

---



### Allen wrench 2.5 mm

Reference number 709S10

#### Technical data

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**Article number**

709S10=2.5

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**Wrench size**

2.5 mm

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# Materials, tools and accessories

## Alignment aids and measuring technology

### Accessory for 743R6



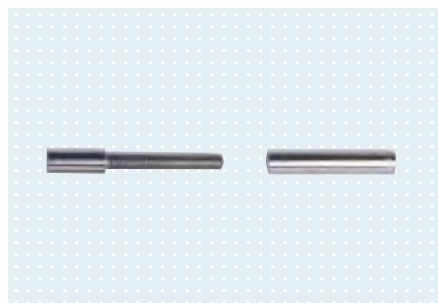
#### Locating bolt

Reference number 743Y47

The locating bolt is an accessory for the orthotic joint alignment set. It is used for locating the 17B36, 17B48, 17B90, 17B17 and 17B16 system knee joints.

##### Technical data

Article number	For system width
743Y47=1	16 mm
743Y47=2	20 mm



#### Positioning aid

Reference number 743Y46

The positioning aid helps with aligning the 743Y56=\* alignment insert.

##### Technical data

Article number
743Y46



#### Adapter sleeve

Reference number 743Y48

The adapter sleeves are slid onto the 743Y55 alignment axis and positioned in the plaster negative. Adapter sleeve made of rigid foam for receiving the 743Y56 adjustment adapters in the plaster positive. The adapter sleeves are slid onto the 743Y55 alignment axis and positioned in the plaster negative.

##### Technical data

Article number	Length	Package contents
743Y48	290 mm 29 cm	4 piece(s) pieces



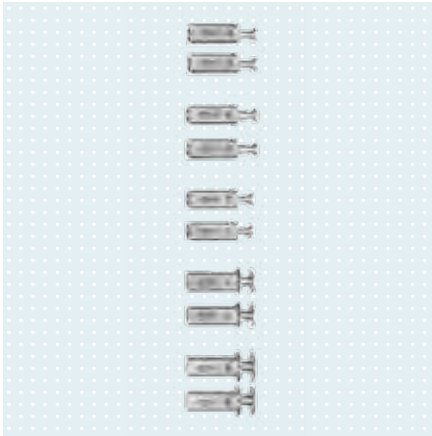
#### Shoulder screw set

Reference number 743Y49

Shoulder screw set compatible with 743Y56=4 alignment insert

##### Technical data

Article number	Package contents
743Y49	4 pairs



### Alignment insert set

Reference number 743Y57

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**Technical data**

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**Article number**

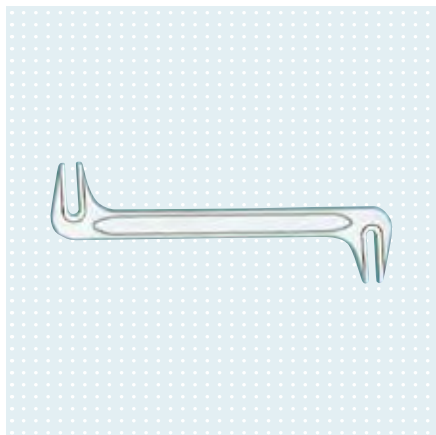
743Y57

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- The 743Y57 is a set consisting of the alignment inserts in sizes 5 through 9.

# Materials, tools and accessories

## Tools

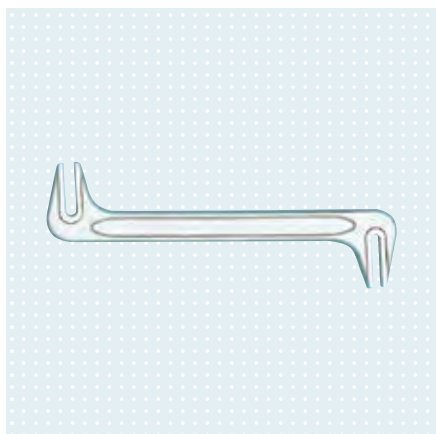


### Bending iron

Reference number 711S1

#### Technical data

Article number	Version	Material	Jaw opening	Length	Weight
711S1=6X4	Straight jaws	CV steel	4 und 6 mm	245 mm	0.35 kg
711S1=8X6	Straight jaws	CV steel	6 und 8 mm	245 mm	0.33 kg
711S1=9X7	Straight jaws	CV steel	7 and 9 mm	245 mm	0.325 kg

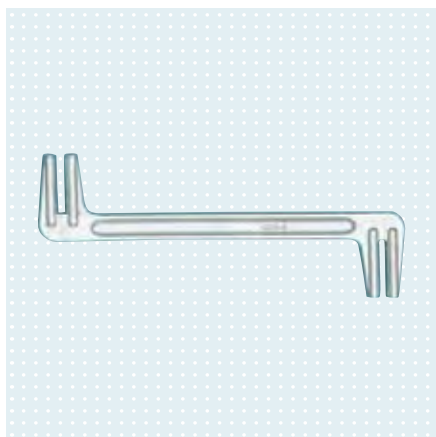


### Bending iron

Reference number 711S4

#### Technical data

Article number	Version	Material	Jaw opening	Length	Weight
711S4=3X3.5	Rounded jaws	CV steel	3 and 3.5 mm	245 mm	0.35 kg
711S4=6X4	Rounded jaws	CV steel	4 and 6 mm	245 mm	0.35 kg
711S4=8X6	Rounded jaws	CV steel	6 and 8 mm	245 mm	0.35 kg

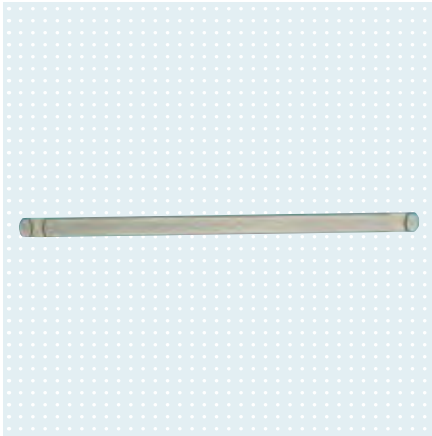


### Bending iron

Reference number 711S5

#### Technical data

Article number	Version	Material	Jaw opening	Length	Weight
711S5	Round jaws	CV steel	4 and 6 mm	310 mm	0.55 kg



## Bending iron

Reference number 711S3

- For bending over the upper edge of Ottobock system bars

### Technical data

Article number	Version	Material	For bar width	Length	Weight
711S3	Half-round bar profile, moulded jaws	Tool steel, high-alloyed	16 and 20 mm	500 mm	1.42 kg



## Bending fixture set

Reference number 711S2

- For mounting in the vice

### Technical data

Article number	Material	Package contents	Weight
711S2	Steel	3 pc. pieces	0.245 kg



## Hole gauge

Reference number 702B9

- For perfect-fit bore hole for oval head Philips screws (501T7=7.5X9XM5) for Ottobock system bars

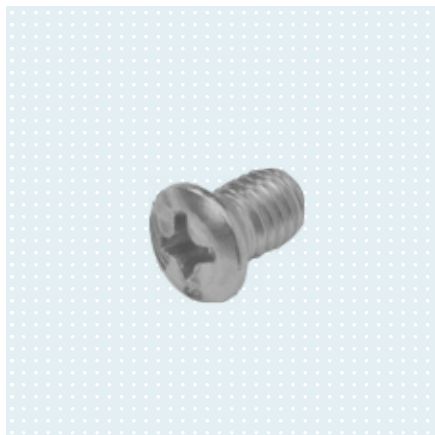
### Technical data

Article number	Material	Weight
702B9	Tool steel	0.21 kg



# Materials, tools and accessories

## Tools



### Phillips oval countersunk head screw

Reference number 501T7

#### Technical data

Article number	Thread	Length	Material	Quantity unit
501T7=7.5X9XM5	M5	9 mm	Stainless steel	Piece
501T7=7.5X11XM5	M5	11 mm	Stainless steel	Piece

- Side bars must be ordered separately, see accessories.
- For system side bars



### Phillips screwdriver

Reference number 710H50

#### Technical data

Article number	Version	for	Size	Blade length
710H50=0	<b>Blade:</b> Round blade, Lasertip point <b>Handle:</b> Kraftform handle, hexagon roll protection	Phillips recess screws	PH 0	60 mm
710H50=1	<b>Blade:</b> Round blade, Lasertip point <b>Handle:</b> Kraftform handle, hexagon roll protection	Phillips recess screws	PH 1	80 mm
710H50=2	<b>Blade:</b> Round blade, Lasertip point <b>Handle:</b> Kraftform handle, hexagon roll protection	Phillips recess screws	PH 2	100 mm



### Spanner

Reference number 709Z2

#### Technical data

Article number	Version	Area of application	Material	Length	Weight	Consumables
709Z2	Hardened tips, adjustment using conical screw	Two-hole nuts	Wooden handle	220 mm	0.16 kg	709Y8 Tip



## Tip

Reference number 709Y8

### Technical data

Article number	for
709Y8	709Z2 Pin spanner



## Spanner

Reference number 709Z4

### Technical data

Article number	Version	Length	Weight
709Z4	Forged, adjustable	240 mm	0.205 kg



## Deburring knife

Reference number 718S2

### Technical data

Article number	Area of application	Version	Product features	Material	Weight	Consumables
718S2	Plastic and metals	Movable and replaceable blade, blade holder extends 100 mm	Plastic magazine handle	Plastic	0.08 kg	718Y2 Replacement blades

# Materials, tools and accessories

## Tools



### Replacement blades

Reference number 718Y2

#### Technical data

Article number	for	Package contents	Weight
718Y2	718S2 Deburring knife	10 pc. pieces	0.015 kg



### HSCO twist drill

Reference number 724S14

Twist drill from HSCO

#### Technical data

Article number	Diameter
724S14=3.0	3 mm
724S14=3.3	3.3 mm
724S14=4.0	4 mm

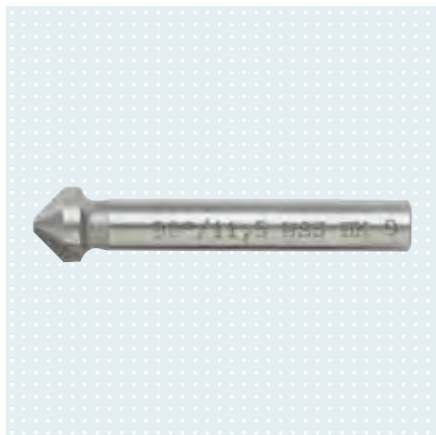


### Machine thread tap HSSE

Reference number 731B34

#### Technical data

Article number	for
731B34=M4	Titanium material
731B34=M5	



## Countersink

Reference number 726S9

### Technical data

Article number	for
726S9=90X11.5	Titanium material



## Silicone sanding cone set

Reference number 749F16

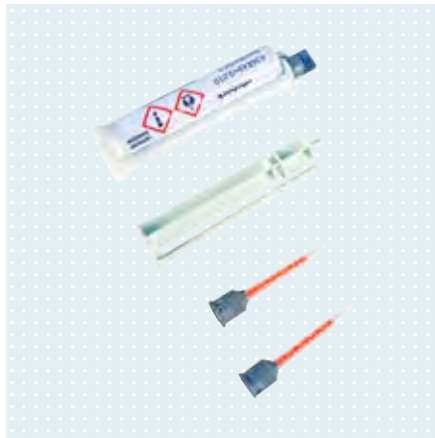
- For polishing and rounding edges of thermoplastic materials

### Technical data

Article number	Thread	Weight	Scope of delivery
749F16=5/8	5/8"	0.66 kg	749F16=5/8-1 Silicone sanding cone set 749F16=5/8-2 Silicone sanding cone set 749F16=5/8-3 Silicone sanding cone set 749F16=5/8-4 Silicone sanding cone set
749F16=M16	M16	0.66 kg	749F16=M16-1 Silicone sanding cone set 749F16=M16-2 Silicone sanding cone set 749F16=M16-3 Silicone sanding cone set 749F16=M16-4 Silicone sanding cone set

# Materials, tools and accessories

## Materials – Adhesives and lubricants



### SuperGlue

Reference number 636K49

- For gluing metals, duroplastics and thermoplastics
- 2-component adhesive based on methyl methacrylate with very high adhesive strength
- Primerless gluing
- Fast gluing, for example of socket adapters
- Processing time: 4 to 7 minutes
- Curing time: approx. 15 minutes
- Gel/highly viscous
- Fills gaps from 0.5 to 12 mm
- High tensile strength along with excellent peel strength
- High temperature resistance
- Lasting strength and flexibility
- Dispensing gun for 636K49 SuperGlue available under 756K31 (not required for 636K49=0.010 SuperGlue)
- Refill pack for 636K49 SuperGlue with 20 static mixers available under 756Y76

#### Information material

646D1466=EN\_MASTER 636K49 SuperGlue product brief



#### Technical data

Article image	Article number	Net contents	Package contents	Colour
	636K49=0.010	10 ml	1 cartridge with tappet and 2 static mixers	Black
	636K49	50 ml	1 cartridge and 6 static mixers	Black

#### Components

636K49	SuperGlue Part A	
636K49	SuperGlue Part B	



#### Practical recommendation 636K49

- To improve the hold of the bond, first bend the anchor arms in such a way that they lie as closely against the socket as possible. Then remove any grease with 634A58 isopropyl alcohol.
- Clean the socket with 634A58 isopropyl alcohol as well.
- Loosen the screw on the anchor before gluing, otherwise the adapter thread connection may become stuck after gluing.
- Re-tighten the loosened screw with the corresponding Nm for the relevant adapter prior to the fitting.



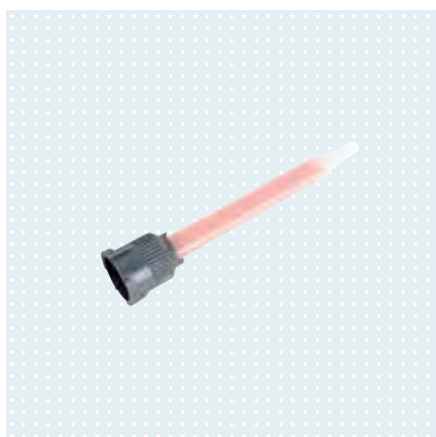
### SuperGlue dispensing gun

Reference number 756K31

- For 636K49 SuperGlue (not required for 636K49=0.010 SuperGlue)

#### Technical data

Article number	Package contents
756K31	1 dispensing gun



### SuperGlue refill pack static mixer

Reference number 756Y76

- For 636K49 SuperGlue (not compatible with 636K49=0.010 SuperGlue)

#### Technical data

Article number	Package contents
756Y76	20 static mixers



### Special adhesive

Reference number 636W18

- For adhering metal to wood
- Especially for unilateral bar systems and E-MAG knee joints
- Base: epoxy resin and pigments (A), polyaminoamide (B)
- Pasty consistency
- Highest strength values when cured between 40–120° C
- In conjunction with 636W19 hardener
- Solvent-free



#### Information material

646F297=GB	Adhesives, putties, varnishes and thinners poster
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#### Technical data

Article number	Net contents	Packaging
636W18	0.1 kg	Tube

# Materials, tools and accessories

## Materials – Adhesives and lubricants



### Hardener

Reference number 636W19

- For 636W18 special adhesive
- Pasty consistency
- Good full curing



#### Technical data

Article number	Net contents	Packaging
636W19	0.1 kg	Tube

#### Mixing ratio

Special adhesive 636W18	Hardener 636W19
100	70



### Special lubricant

Reference number 633G6

- For prosthetic joints
- For the following material combinations: metal on plastic, leather on plastic and plastic on plastic
- Excellent temperature stability (from -25 °C to +120 °C)
- High resistance to cold and hot water
- Excellent flexing resistance
- Excellent protection against wear and tear
- Good corrosion protection

#### Technical data

Article number	Net contents	Packaging
633G6	0.25 kg	Tube





### Special lubricant

Reference number 633F14

- For gliding surfaces and frictional contacts that are subject to high loads and simultaneously require “non-contaminating” lubrication, particularly at low to medium speeds
- For all accessible gear wheels and axes in System Electric Hands and System Electric Greifers
- Good water resistance
- High load-bearing capacity
- Excellent protection against wear and tear
- Good corrosion protection



#### Technical data

Article image	Article number	Net contents	Packaging
	633F14=0.050	0.05 kg	Tube
	633F14=1	1 kg	Can



# Materials, tools and accessories

## Materials – Soldering and welding materials



### Fluxing agent

Reference number 637F1

- For soldering with 637L8=1.5x500 silver solder
- For soldering steel, stainless steel and other metals, except light metals
- Pasty consistency



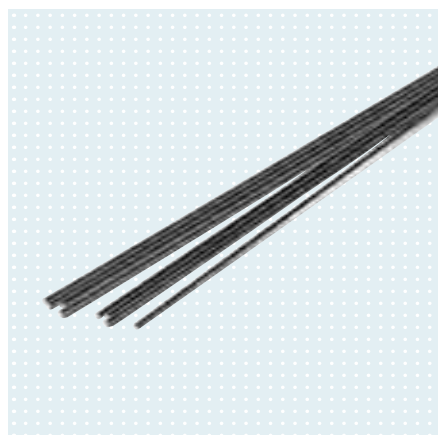
#### Technical data

Article number	Weight
637F1=0.100	0.1 kg
637F1=0.500	0.5 kg



#### Practical recommendation 637F1

- If the paste is too thick for certain applications, it can be thinned with water.
- Flux residue can be removed with water or etching agent.



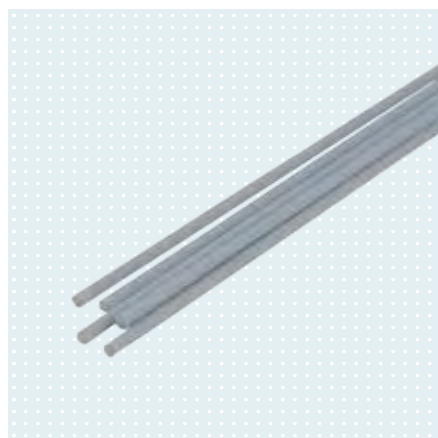
### Silver solder

Reference number 637L8

- For soldering stainless steel, e.g. for soldering all Ottobock bars made of stainless steel
- Melting temperature: 595–630 °C
- Excellent flow characteristics
- Soldered joints are durable up to an operating temperature of 200 °C

#### Technical data

Article number	Diameter	Length
637L8=1.5X500	1.5 mm	500 mm



### Welding electrode

Reference number 637E1

- For welding stainless steel, e.g. for welding all Ottobock bars made of stainless steel
- For base materials that are hard to weld, e.g. tool steel
- Good corrosion protection
- Suitable for operating temperatures up to 300 °C

#### Technical data

Article number	Diameter	Length
637E1=2X300	2 mm	300 mm



### Sintering powder

Reference number 618T40

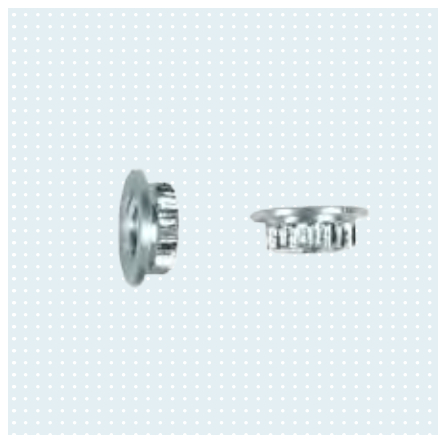
- For coating metal parts in a sintering bath, e.g. orthotic bars
- For a smooth surface
- Ionomer
- Thermoplastic powder
- Melting temperature: 93 °C
- Welding temperature: 105–108 °C
- Good corrosion protection
- Good UV protection

#### Technical data

Article number	Net contents	Colour
618T40=H	4 kg	Beige
618T40=W	4 kg	White
618T40=S	4 kg	Black

# Materials, tools and accessories

## Materials – Setting nuts and screws



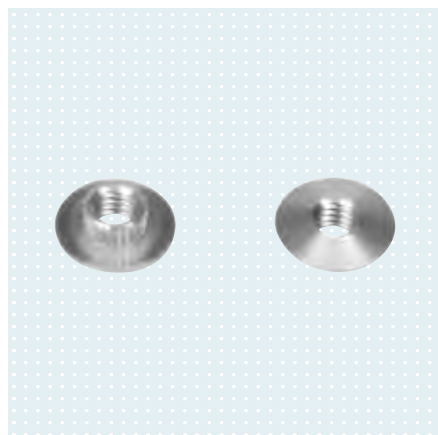
### Setting nut

Reference number 29C5

- For thin laminates in orthotics
- Stainless steel
- Flat
- With knurled shoulder
- Secure support

#### Technical data

Article number	Thread	Head Ø	Length	Shoulder Ø
29C5=M4X7	M4	7 mm	3.6 mm	5,5 mm
29C5=M4X7X2.4	M4	7 mm	2,4 mm	5,5 mm
29C5=M4X9	M4	9 mm	3.6 mm	5,5 mm
29C5=M5X9	M5	9 mm	9 mm	6,5 mm
29C5=M5X18	M5	18 mm	3.6 mm	6,5 mm



### Setting nut/insert nut

Reference number 29C3

- Stainless steel
- With knurled shoulder
- Secure support

#### Technical data

Article number	Thread	Head Ø	Shoulder Ø	Length	Order unit
29C3=M4	M4	10 mm	5 mm	3.6 mm	Piece



### Setting nut

Reference number 29C6

- Stainless steel
- With large shoulder

#### Technical data

Article number	Thread	Head Ø	Shoulder Ø	Length
29C6	M4	20 mm	8 mm	7.5 mm



### Phillips countersunk head screw

Reference number 501T19

- For universal fastening applications
- Stainless steel
- Countersunk screw, flush with material surface after mounting

#### Technical data

Article number	Thread	Length
501T19=M3X12-1	M3	12 mm
501T19=M4X6	M4	6 mm
501T19=M4X8	M4	8 mm
501T19=M4X10	M4	10 mm
501T19=M4X12	M4	12 mm
501T19=M4X14-1	M4	14 mm
501T19=M4X16-1	M4	16 mm
501T19=M4X20	M4	20 mm
501T19=M5X10	M5	10 mm
501T19=M5X18	M5	18 mm

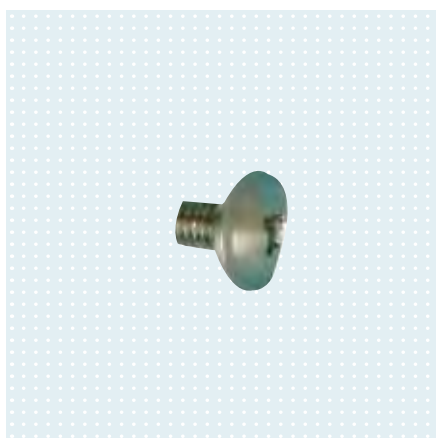


### Phillips oval head screw

Reference number 501T20

#### Technical data

Article number	Thread	Length	Material
501T20=M4X6	M4	6 mm	Niro
501T20=M4X10	M4	10 mm	Niro



### Phillips head screw with collar

Reference number 501Z13

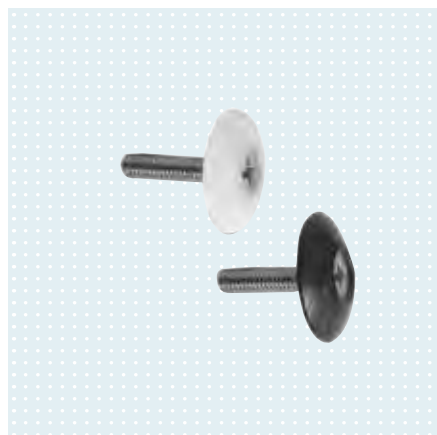
- For the attachment of polycentric knee joint bars with gear drive (17K48 and FreeWalk)

#### Technical data

Article number	Thread	Length	Material	Quantity unit
501Z13=M4X4.5	M4	4.5 mm	Niro	Piece
501Z13=M4X6	M4	6 mm	Niro	Piece
501Z13=M4X10	M4	10 mm	Niro	Piece

# Materials, tools and accessories

## Materials – Setting nuts and screws



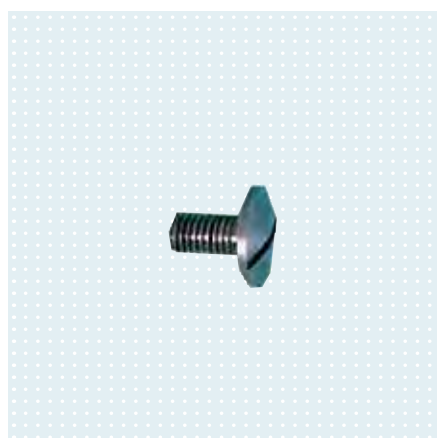
### Phillips head screw

Reference number 29Y27

- For belt attachments
- Available with white or black plastic head

#### Technical data

Article number	Thread	Length	Colour
29Y27=M4X6-6	M4	6 mm	White
29Y27=M4X8-6	M4	8 mm	White
29Y27=M4X10-6	M4	10 mm	White
29Y27=M4X12-6	M4	12 mm	White
29Y27=M4X20-6	M4	20 mm	White
29Y27=M4X6-7	M4	6 mm	Black
29Y27=M4X8-7	M4	8 mm	Black
29Y27=M4X12-7	M4	12 mm	Black
29Y27=M4X20-7	M4	20 mm	Black

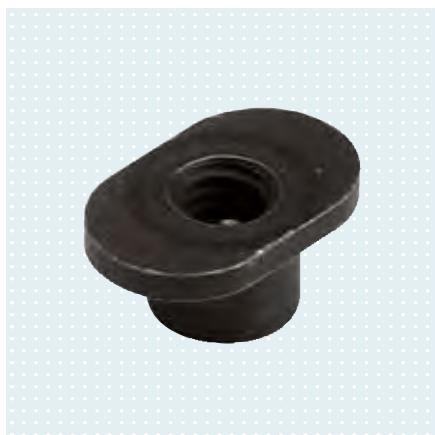


### Slotted truss head screw

Reference number 501S32

#### Technical data

Article number	Thread	Head Ø	Length	Material	Quantity unit
501S32=M4X10X7.5	M4	10 mm	7.5 mm	Stainless steel	Piece
501S32=M4X10X9.5	M4	10 mm	9.5 mm	Stainless steel	Piece
501S32=M4X8X11.5	M4	8 mm	11.5 mm	Stainless steel	Piece
501S32=M4X12X8	M4	12 mm	8 mm	Stainless steel	Piece
501S32=M5X10X10	M5	10 mm	10 mm	Stainless steel	Piece
501S32=M5X12X9.5	M5	12 mm	9.5 mm	Stainless steel	Piece
501S32=M5X12X11	M5	12 mm	11 mm	Stainless steel	Piece
501S32=M5X12X13	M5	12 mm	13 mm	Stainless steel	Piece
501S32=M6X14X7.5	M6	14 mm	7.5 mm	Stainless steel	Piece
501S32=M6X14X10	M6	14 mm	10 mm	Stainless steel	Piece
501S32=M6X14X12	M6	14 mm	12 mm	Stainless steel	Piece



### Bearing nut, hardened

Reference number 17Y93

#### Technical data

Article number	Insertion length	Profile length	Shank length	Thread	Attachment Ø	Quantity unit
17Y93=6X4.75XM4	3.5 mm	12 mm	4.75 mm	M4	6 mm	Piece
17Y93=6X5XM4	4.1 mm	12 mm	5 mm	M4	6 mm	Piece
17Y93=6X5.2XM4	3.95 mm	12 mm	5.2 mm	M4	6 mm	Piece
17Y93=6X6.7XM4	5.45 mm	12 mm	6.7 mm	M4	6 mm	Piece
17Y93=6X7.2XM4	6 mm	12 mm	7.2 mm	M4	6 mm	Piece
17Y93=6X7.7XM4	6.45 mm	12 mm	7.7 mm	M4	6 mm	Piece
17Y93=6X9.15XM4	7.9 mm	12 mm	9.15 mm	M4	6 mm	Piece
17Y93=6.5X4.75XM4	3.5 mm	12 mm	4.75 mm	M4	6.5 mm	Piece
17Y93=6.5X6.7XM4	5.45 mm	12 mm	6.7 mm	M4	6.5 mm	Piece
17Y93=6.5X7.7XM4	6.45 mm	12 mm	7.7 mm	M4	6.5 mm	Piece
17Y93=6.5X9.15XM4	7.9 mm	12 mm	9.15 mm	M4	6.5 mm	Piece
17Y93=7X4.75XM4	3.5 mm	12 mm	4.75 mm	M4	7 mm	Piece
17Y93=7X4.8XM5	3.55 mm	12 mm	4.8 mm	M5	7 mm	Piece
17Y93=7X6.25XM5			6.25 mm	M5	7 mm	Piece
17Y93=7X6.7XM4	5.45 mm	12 mm	6.7 mm	M4	7 mm	Piece
17Y93=7X6.8XM5	5.55 mm	12 mm	6.8 mm	M5	7 mm	Piece
17Y93=7X7XM5	5.5 mm	12 mm	7 mm	M5	7 mm	Piece
17Y93=7X8.4XM5	7.2 mm	12 mm	8.4 mm	M5	7 mm	Piece
17Y93=7X8.85XM5			8.85 mm	M5	7 mm	Piece
17Y93=7.5X6.8XM5	5.55 mm	12 mm	6.8 mm	M5	7.5 mm	Piece
17Y93=7.5X7XM5	5.55 mm	12 mm	7 mm	M5	7.5 mm	Piece
17Y93=7X8.5XM5			8.5 mm	M5	7 mm	Piece
17Y93=8X7.2XM5	6 mm	12 mm	7.2 mm	M5	8 mm	Piece
17Y93=8X8.4XM5	7.2 mm	12 mm	8.4 mm	M5	8 mm	Piece
17Y93=8X8.5XM5	7.4 mm	12 mm	8.5 mm	M5	8 mm	Piece
17Y93=8X9XM5	7.6 mm	12 mm	9 mm	M5	8 mm	Piece
17Y93=9X6.25XM6			6.25 mm	M6	9 mm	Piece
17Y93=9X7.2XM6	6 mm	14 mm	7.2 mm	M6	9 mm	Piece
17Y93=9X9.2XM6	8 mm	14 mm	9.2 mm	M6	9 mm	Piece
17Y93=9.5X7.2XM6	6 mm	14 mm	7.2 mm	M6	9.5 mm	Piece
17Y93=9.5X9.2XM6	8 mm	14 mm	9.2 mm	M6	9.5 mm	Piece
17Y93=9X10.75XM6			10.75 mm	M6	9 mm	Piece
17Y93=9X11.75XM6			11.75 mm	M6	9 mm	Piece
17Y93=10X7.2XM6	6 mm	14 mm	7.2 mm	M6	10 mm	Piece
17Y93=M5X7X6.4			6.4 mm	M5	7 mm	Piece
17Y93=M5X7X7.5			7.5 mm	M5	7 mm	Piece
17Y93=M5X7X8.3			8.3 mm	M5	7 mm	Piece
17Y93=M6X8.5X7.8			7.8 mm	M6	8.5 mm	Piece
17Y93=M6X8.5X9			9 mm	M6	8.5 mm	Piece

# Materials, tools and accessories

## Materials – Closure technology



### Information material

646D1471=EN\_INT

21Y75N PU hook-and-loop closure product brief

## PU hook-and-loop closure

Reference number 21Y75N

- Closure technology for orthopaedic technology
- Especially for closure types with higher loads, e.g. walking orthoses
- Polyamide with PU coating
- Heavy-duty hook-and-loop
- With strap guide loop and bracket
- Can be refastened many times
- User-friendly thanks to the absence of hooks at the beginning of the closure
- Very high hook-and-loop strength
- Individually adaptable length
- Abrasion-proof, smooth surface
- Easy to clean thanks to PU coating
- Not bulky
- Washable with a damp cloth
- Attractive design

### Technical data

Article number	Length	Width	Colour
21Y75N=280X16-7	280 mm	16 mm	Black
21Y75N=280X25-7	280 mm	25 mm	Black
21Y75N=400X40-7	400 mm	40 mm	Black
21Y75N=680X50-7	680 mm	50 mm	Black



## Hook-and-loop closure with weld seams

Reference number 21Y78

- For fast, detachable connections
- With strap guide loop
- Hook-and-loop strap
- 100% polyamide
- Individually adaptable length due to welding seam
- Can be refastened many times
- High hook-and-loop strength
- Very good inherent stiffness
- Flexible
- Skin-friendly thanks to velour



### Technical data

Article number	Length	Width	Colour
21Y78=420-40-7	420 mm	40 mm	Black
21Y78=420-50-7	420 mm	50 mm	Black
21Y78=650-40-7	650 mm	40 mm	Black
21Y78=650-50-7	650 mm	50 mm	Black



### Hook-and-loop closure

Reference number 21Y78

- For fast, detachable connections
- With strap guide loop and bracket
- 100% polyamide
- Can be refastened many times
- Flexible
- High level of wearer comfort



#### Technical data

Article number	Length	Width	Colour
21Y78=25-0	420 mm	25 mm	Beige
21Y78=30-0	420 mm	30 mm	Beige
21Y78=38-0	420 mm	38 mm	Beige
21Y78=50-0	420 mm	50 mm	Beige
21Y78=25-2	350 mm	25 mm	Red
21Y78=30-2	350 mm	30 mm	Red
21Y78=38-2	350 mm	38 mm	Red
21Y78=50-2	350 mm	50 mm	Red
21Y78=25-4	350 mm	25 mm	Yellow
21Y78=30-4	350 mm	30 mm	Yellow
21Y78=38-4	350 mm	38 mm	Yellow
21Y78=50-4	350 mm	50 mm	Yellow
21Y78=25-5	350 mm	25 mm	Blue
21Y78=30-5	350 mm	30 mm	Blue
21Y78=38-5	350 mm	38 mm	Blue
21Y78=50-5	350 mm	50 mm	Blue
21Y78=25-6	350 mm	25 mm	White
21Y78=30-6	350 mm	30 mm	White
21Y78=38-6	350 mm	38 mm	White
21Y78=50-6	350 mm	50 mm	White
21Y78=25-7	350 mm	25 mm	Black
21Y78=30-7	350 mm	30 mm	Black
21Y78=38-7	350 mm	38 mm	Black
21Y78=50-7	350 mm	50 mm	Black



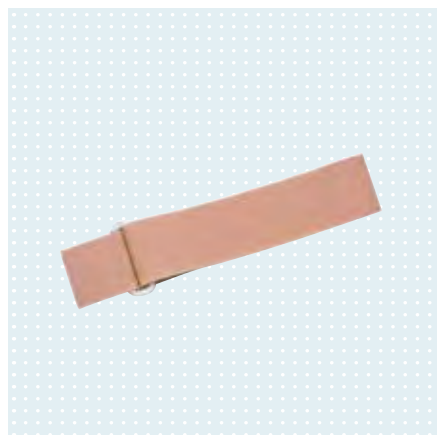
#### Practical recommendation 21Y78

Close before washing to protect the closure and/or other items in the wash.



# Materials, tools and accessories

## Materials – Closure technology



### Hook-and-loop closure

Reference number 623Z3

- For 28U9 lower leg orthoses
- For fast, detachable connections
- With strap guide loop and bracket
- 100% polyamide
- Can be refastened many times
- Flexible
- High level of wearer comfort



#### Technical data

Article number	Length	Width	Colour
623Z3=38X270	270 mm	38 mm	Beige
623Z3=38X310	310 mm	38 mm	Beige



#### Practical recommendation 623Z3

Close before washing to protect the closure and/or other items in the wash.





### Hook-and-loop closure

Reference number 21Y122

- For fast, detachable connections
- 21Y122=38-7: with reinforced strap guide loop
- 21Y122=50-7: both sides with hook strip and two strap guide loops
- 100% polyamide
- Can be refastened many times
- Flexible
- High level of wearer comfort



#### Technical data

Article image	Article number	Width	Colour
	21Y122=38-7	38 mm	Black
	21Y122=50-7	50 mm	Black



#### Practical recommendation 21Y122

Close before washing to protect the closure and/or other items in the wash.



### Strap guide loop

Reference number 514U2

- Plastic
- Prevents the loops from twisting

#### Technical data

Article number	Clear width	Colour
514U2=20	20 mm	White
514U2=25	25 mm	White
514U2=30	30 mm	White
514U2=38	38 mm	White
514U2=50	50 mm	White
514U2=38-7	38 mm	Black
514U2=50-7	50 mm	Black



### Roll loop

Reference number 21Y92

- With plastic roller and plastic attachment plate
- Prevents the loops from twisting

#### Technical data

Article number	Clear width	Colour
21Y92=35	35 mm	White
21Y92=50	50 mm	White
21Y92=35-7	39 mm	Black
21Y92=50-7	50 mm	Black

# Materials, tools and accessories

## Materials – Closure technology



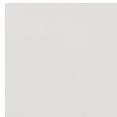
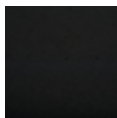
### Micro hook-and-loop, self-adhesive

Reference number 623Z\*

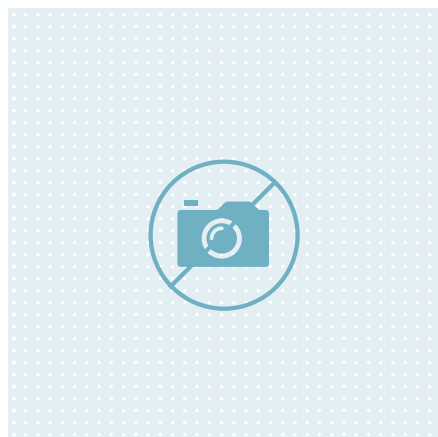
- Recommended especially in combination with 623P3 terry cloth padding fabric and with 623F\* ComforTex
- Individually adaptable length
- Self-adhesive
- Very high hook-and-loop strength
- No additional bulk when fastening textile padding fabrics
- Facilitates very flexible connections



#### Technical data

Article image	Article number	Width	Colour	Minimum order quantity
	623Z4=50-6	50 mm	White	10 m
	623Z200=100-7	100 mm	Black	10 m

• Please indicate the required length in metres when ordering.



### TR ring orthosis closure

Reference number 29S12

#### Technical data

##### Article number

29S12=1

29S12=2



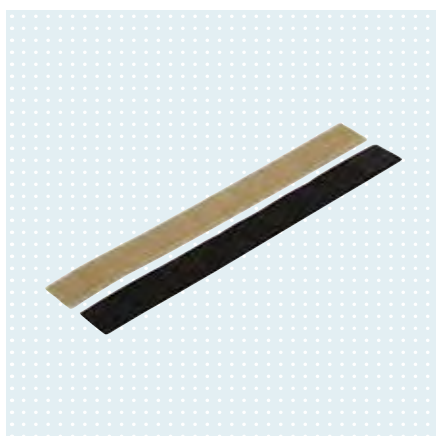
### Shrinkable tubing

Reference number 616Z9

- For covering devices, e.g. orthotic joints or orthotic bars
- Plastic hose with rounded edges
- Good insulation protection
- Good corrosion protection
- Good resistance to liquids

#### Technical data

Article number	Diameter	Length	Colour
616Z9=19X61	19 mm	50 m	Black
616Z9=25.4X30	25.4 mm	50 m	Black



### Hook-and-loop strap

Reference number 170Z4

- Ideal for FreeWalk orthosis
- For fast, detachable connections
- 100% polyamide
- Can be refastened many times
- Flexible
- High level of wearer comfort



#### Technical data

Article number	Spare part for	Length	Width	Colour	Order unit
170Z4=400-0	170K1=L-80-0 170K1=R-120-0 170K1=R-80-0 170K1=L-120-0	400 mm	40 mm	Skin colour	Piece
170Z4=600-0	170K1=L-80-0 170K1=R-120-0 170K1=R-80-0 170K1=L-120-0	600 mm	40 mm	Skin colour	Piece
170Z4=400-7	170K1=L-120-7 170K1=L-80-7 170K1=R-120-7 170K1=R-80-7	400 mm	40 mm	Black	Piece
170Z4=600-7	170K1=L-120-7 170K1=L-80-7 170K1=R-120-7 170K1=R-80-7	600 mm	40 mm	Black	Piece



#### Practical recommendation 170Z4

Close before washing to protect the closure and/or other items in the wash.

# Materials, tools and accessories

## Materials – Closure technology



### Y-hook-and-loop with PU coating

Reference number 170D29

- For adapting straps, e.g. directly on the patient
- Particularly suitable for 623Z96 loop-velour strap
- For closure types with higher loads, e.g. walking orthoses
- For fast, detachable connections
- Polyester with PU coating
- Micro hook-and-loop/micro hook-and-loop (single side: heavy hook-and-loop)
- Various widths available
- Low bulk due to use of micro hook-and-loop only
- User-friendly design with “Open” embossing
- Easy to clean thanks to PU coating
- Washable with a damp cloth
- Can be refastened many times
- Flexible
- High level of wearer comfort

#### Technical data

Article number	Width	Colour
170D29=30-0	30 mm	Beige
170D29=38-0	38 mm	Beige
170D29=50-0	50 mm	Beige
170D29=30-7	30 mm	Black
170D29=38-7	38 mm	Black
170D29=50-7	50 mm	Black



#### Practical recommendation 170D29

We recommend using micro hook-and-loop on velour and hook on loop.



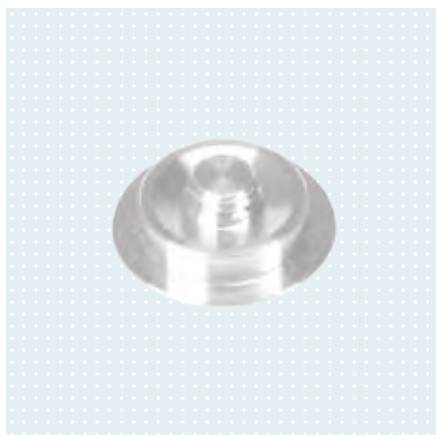
### Pad button

Reference number 170D17

- For use with the 170D20 strap guide loop for pad button

#### Technical data

Article number	Thread	Length	Order unit
170D17	M5	2 mm	Piece



### Pad button

Reference number 170D69

- For use with the 170D20 strap guide loop for pad button

#### Technical data

Article number	Spare part for	Thread	Quantity unit
170D69	170K1=L-120-7 170K1=L-80-0 170K1=L-80-7 170K1=R-120-0 170K1=R-120-7 170K1=R-80-0 170K1=R-80-7 170K1=L-120-0	4	Piece



### Strap guide loop for pad button

Reference number 170D20

- For use with the 170D17 pad button
- Prevents the loops from twisting

#### Technical data

Article number	Spare part for	Colour	Order unit
170D20=0	170K1=L-80-0 170K1=R-120-0 170K1=R-80-0 170K1=L-120-0	Beige	Piece
170D20=7	170K1=L-120-7 170K1=L-80-7 170K1=R-120-7 170K1=R-80-7	Black	Piece



### Tensioning clip

Reference number 21B43

- Finely adjustable closure
- Easy to use
- Easy to release

#### Technical data

Article number	Length	Weight	Colour
21B43=W	5.6 cm	15 g	White

- Please order 21B44 or 21B44=W strap along with the tensioning clip.

# Materials, tools and accessories

## Materials – Closure technology



### Strap, treated

Reference number 21B44

- For 21B43 tensioning clip
- High durability

#### Technical data

Article number	Length	Width	Colour	Order unit
21B44	15.6 cm	1.5 cm	Black	Piece
21B44=W	15.6 cm	1.5 cm	White	Piece



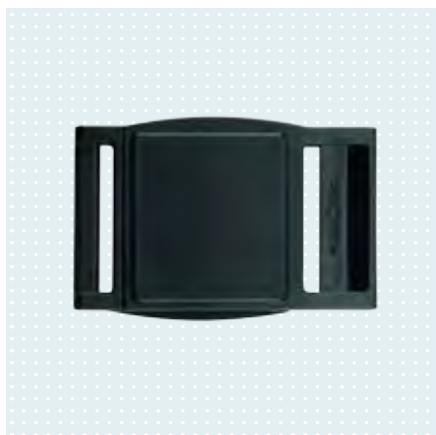
### Strap

Reference number 21B42

- For 21B43 tensioning clip
- High durability

#### Technical data

Article number	Length	Width	Colour	Order unit
21B42	17.5 cm	1.5 cm	Black	Piece
21B42=W	17.5 cm	1.5 cm	White	Piece



### SafeLock buckle

Reference number 514Z8

- Magnetic closure that engages mechanically for use in orthosis fabrication
- Suitable for hand, shoulder, torso, knee and ankle orthoses depending on the size
- Plastic
- Self-actuating, secure closing via magnetic pull
- Easy, intuitive opening with one hand by pushing sideways
- Different sizes for strap widths of 20, 30 and 40 mm
- Robust and durable
- High load capacity (max. 55 kg)

#### Technical data

Article number	Table helper variable	Length	Width	Clear width	Height	Colour	Order unit
514Z8=20-7	28U11 Walk On	46 mm	22 mm	20 mm	12 mm	Black	Piece
	28U22 WalkOn Flex						
	28U23 WalkOn Trimable						
	28U24 WalkOn Reaction						
	28U25 WalkOn Reaction Plus						
514Z8=30-7	28U11 Walk On	62 mm	42 mm	30 mm	10 mm	Black	Piece
	28U22 WalkOn Flex						
	28U23 WalkOn Trimable						
	28U24 WalkOn Reaction						
	28U25 WalkOn Reaction Plus						
514Z8=40-7	28U11 Walk On	74 mm	48.8 mm	40 mm	10 mm	Black	Piece
	28U22 WalkOn Flex						
	28U23 WalkOn Trimable						
	28U24 WalkOn Reaction						
	28U25 WalkOn Reaction Plus						

#### Product example





# Materials, tools and accessories

## Materials – Closure technology



### SafeLock slider

Reference number 514Z9

- Magnetic closure that engages mechanically for use in orthosis fabrication
- Suitable for torso, knee and ankle orthoses
- Plastic
- Self-actuating, secure closing via magnetic pull
- Easy, intuitive opening with one hand by pushing sideways
- Robust and durable
- High load capacity (max. 40 kg)

#### Technical data

Article number	Length	Width	Clear width	Height	Colour	Order unit
514Z9=40-7	58 mm	47 mm	40 mm	15 mm	Black	Piece

#### Product example



### QuickFit strap

Reference number 514Z20

- Closure and adjustment mechanism for orthoses
- Individual adaptation of the compression and support provided by the orthosis
- Length can be individually shortened
- Minute adjustments can be made on the go
- Easy, one-handed operation by turning the BOA® reel
- Quick opening and closing
- Robust and durable
- Lightweight material
- Can be combined with 514Z21 QuickFit buckle

#### Technical data

Article number	Length	Width	Colour
514Z20=25-7	Approx. 73–63 cm	Approx. 25 mm	Black
514Z20=38-7	Approx. 73–63 cm	Approx. 38 mm	Black
514Z20=50-7	Approx. 73–63 cm	Approx. 50 mm	Black

#### Information material

646D1441=EN\_INT 514Z20/514Z21 QuickFit strap/  
QuickFit buckle produkt brief

#### Product example





### QuickFit buckle

Reference number 514Z21

- Closure mechanism for orthoses
- The magnetic component ensures that the mechanism can be aligned and locked effortlessly
- Can be opened easily and intuitively with one hand
- Robust and durable
- Lightweight material
- Can be combined with 514Z20 QuickFit strap

#### Technical data

Article number	Length	Width	Colour
514Z21=25-7	Approx. 18 cm	Approx. 25 mm	Black
514Z21=38-7	Approx. 18 cm	Approx. 38 mm	Black
514Z21=50-7	Approx. 18 cm	Approx. 50 mm	Black

#### Information material

646D1441=EN\_INT

514Z20/514Z21 QuickFit strap/QuickFit buckle produkt brief

#### Product example



# Materials, tools and accessories

## Materials – Arm supports



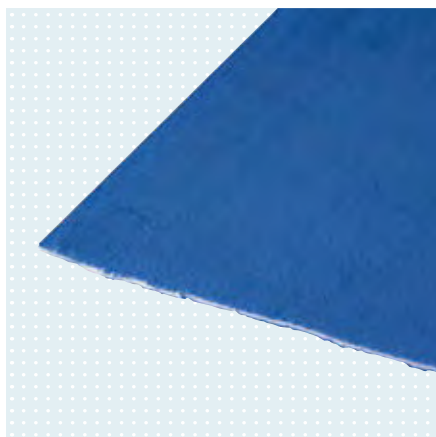
### Forearm crutches

Reference number 22K\*

- Forearm crutch
- For safety when walking
- With plastic grip
- Cushioned with a rubber capsule, ensures good grip when walking
- Light metal
- Height-adjustable in 25 mm increments from 780 to 980 mm (floor to grip)
- Secure and comfortable grip
- Weight: 1.140 kg/pair
- Maximum load capacity: 140 kg/each

#### Technical data

Article number	Fits capsules	Colour
22K2	23K2=16 23K6=16	Silver anodized
22K4	23K11	Blue






### Terry cloth padding

Reference number 623P3

- For padding applications in orthotics
- Upper material: terry cloth, underside: loop material
- Compatible with hook-and-loop
- Good padding characteristics
- Comfortable to wear
- Individual shaping possible
- Washable

#### Technical data

Article image	Article number	Length	Width	Thickness	Colour
	623P3=1	1 m	1460 mm	4 mm	Blue
	623P3=2	2 m	1460 mm	4 mm	Blue
	623P3=5	5 m	1460 mm	4 mm	Blue
	623P3=10	10 m	1460 mm	4 mm	Blue
	623P3=S1	1 m	1460 mm	4 mm	Black
	623P3=S2	2 m	1460 mm	4 mm	Black
	623P3=S5	5 m	1460 mm	4 mm	Black
	623P3=S10	10 m	1460 mm	4 mm	Black
	623P3=H1	1 m	1460 mm	4 mm	Beige
	623P3=H2	2 m	1460 mm	4 mm	Beige
	623P3=H5	5 m	1460 mm	4 mm	Beige
	623P3=H10	10 m	1460 mm	4 mm	Beige

#### Information material

646F295=EN\_INT

Padding materials poster



#### Practical recommendation 623P3

Can be combined with 623Z4 and 623Z200 micro hook-and-loop. Apply 636W71 CP contact adhesive to the micro hook-and-loop and fasten it to the surface to be padded.

# Materials, tools and accessories

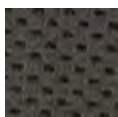
## Materials – Pad



### ComforTex air

Reference number 623F62

- For padding applications in orthotics
- 100% polyamide, first side
- 100% polyester, second side
- Compatible with hook-and-loop, first side
- High resilience
- Good padding characteristics
- High level of wearer comfort
- Air permeable
- Individual shaping possible



#### Information material

646F295=EN\_INT    Padding materials poster  
646D854=EN        ComforTex touch and feel booklet

#### Product example



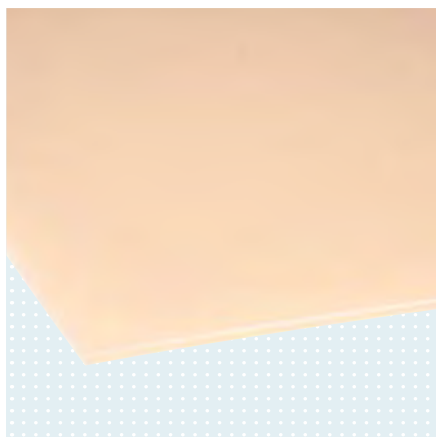
#### Technical data

Article number	Length	Width	Thickness	Colour
623F62=1-7	1 m	1400 mm	3 mm	Black
623F62=2-7	2 m	1400 mm	3 mm	Black
623F62=5-7	5 m	1400 mm	3 mm	Black



#### Practical recommendation 623F62

Can be combined with 623Z4 and 623Z200 micro hook-and-loop. Apply 636W71 CP contact adhesive to the micro hook-and-loop and fasten it to the surface to be padded.







### ThermoLyn Pedilon

Reference number 616T73

- Low-temperature polyester
- For the fabrication of orthoses without preparing a plaster cast or model
- Mobile applications, making it ideal for hospital use and immediate treatment of patients
- Thermoformable at low temperatures
- Eliminates the time-consuming tasks of fabricating casts and models
- Very high adhesive strength
- High resilience when reheated
- Temperature recommendation: heat in water bath at 60 °C

#### Technical data

Article image	Article number	Perforation	Length	Width	Thickness
	616T73=FP60X43X1.6	fine (FP)	60 cm	43 cm	1.6 mm
	616T73=FP60X43X2	fine (FP)	60 cm	43 cm	2 mm
	616T73=MP60X43X2	medium (MP)	60 cm	43 cm	2 mm
	616T73=MP60X45X2.5	medium (MP)	60 cm	45 cm	2.5 mm
	616T73=MP60X45X3.2	medium (MP)	60 cm	45 cm	3.2 mm
	616T73=GP60X43X2	rough (GP)	60 cm	43 cm	2 mm
	616T73=GP60X45X3.2	rough (GP)	60 cm	45 cm	3.2 mm
	616T73=GP90X60X4	rough (GP)	90 cm	60 cm	4 mm
	616T73=NP60X43X2	no (NP)	60 cm	43 cm	2 mm
	616T73=NP90X60X3.2	no (NP)	90 cm	60 cm	3.2 mm
	616T73=NP90X60X4	no (NP)	90 cm	60 cm	4 mm

#### Information material

646F265=EN\_INT

Thermoplastics poster

### Processing and usage examples for 616T73



Place the pre-cut ThermoLyn Pedilon into warm water at approx. 60 °C in the 759P1=220 water pan. The material becomes transparent when it reaches its moulding temperature. Remove the pre-cut material with a wood spatula and allow the water to drip off.



Moisten hand and forearm thoroughly with cold water. Place the warm ThermoLyn Pedilon over the hand and forearm.



Final product: hand positioning orthosis

# Materials, tools and accessories

## Thermoplastics



### ThermoLyn trolene

Reference number 616T3

- Flexible polyethylene
- Used as a forming and parting material
- For orthotic components that require little stiffness but high flexibility
- For fabricating flaps in socket technology
- Individually cut to size, it can be used as a device for filling work
- Reusable and easy to clean due to its smooth surface
- Opaque
- Good transparency
- Low molecular weight
- Good thermoplastic formability
- High flexibility
- Temperature recommendation: processing temperature 125 °C (convection oven, infrared oven)

#### Information material

646F265=EN\_INT

Thermoplastics poster

#### Technical data

Article number	Length	Width	Thickness	Colour
616T3=1	1000 mm	500 mm	1 mm	Natural colour
616T3=2	1000 mm	500 mm	2 mm	Natural colour
616T3=2000X1000X2	2000 mm	1000 mm	2 mm	Natural colour
616T3=2000X1000X3	2000 mm	1000 mm	3 mm	Natural colour
616T3=40X32X2	40 mm	32 mm	2 mm	Natural colour



#### Practical recommendation 616T3

Can also be used as a dummy material, e.g. with lamination technique.



### ThermoLyn PP-C

Reference number 616T120

- Polypropylene copolymer
- Possible applications: AFOs, KAFOs, FOs, TLSOs
- Wide range of applications
- Lightweight
- Good rigidity
- High impact strength
- Low tendency to white crack
- Good thermoforming properties
- Good shaping to orthotic joints
- Good welding characteristics
- Minor shrinkage: approx. 5%
- Easy to dye with Ottobock thermopapers
- Temperature recommendation: 185 °C (convection oven, infrared oven)

#### Information material

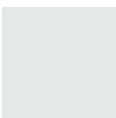

646F265=EN\_INT

Thermoplastics poster

#### Product example



#### Technical data

Article image	Article number	Length	Width	Thickness	Colour
	616T120=2	2000 mm	1000 mm	2 mm	Natural colour
	616T120=3	2000 mm	1000 mm	3 mm	Natural colour
	616T120=4	2000 mm	1000 mm	4 mm	Natural colour
	616T120=5	2000 mm	1000 mm	5 mm	Natural colour
	616T120=6	2000 mm	1000 mm	6 mm	Natural colour
		616T120=3-8	2000 mm	1000 mm	3 mm
616T120=5-8		2000 mm	1000 mm	5 mm	Brown



# Materials, tools and accessories

## Thermoplastics



### ThermoLyn PP-H

Reference number 616T\*

- Polypropylene homopolymer
- For shape-retaining orthotic components, e.g. paralysis orthoses, dynamic AFOs and Ankle Seven
- Sheet size of 400 x 400 mm is ideal for the fabrication of prosthetic sockets
- High rigidity
- High strength
- High thermoplastic dimensional stability
- Reduced impact strength
- Minor shrinkage: approx. 7%
- Easy to dye with Ottobock thermopapers
- Temperature recommendation: 185 °C (convection oven, infrared oven)

#### Information material

646F265=EN\_INT

Thermoplastics poster

#### Technical data

Article image	Article number	Length	Width	Thickness	Colour	
	616T20=400X400X10	400 mm	400 mm	10 mm	Natural colour	
	616T20=400X400X12	400 mm	400 mm	12 mm	Natural colour	
	616T20=400X400X15	400 mm	400 mm	15 mm	Natural colour	
	616T20=2000X2	2000 mm	1000 mm	2 mm	Natural colour	
	616T20=2000X3	2000 mm	1000 mm	3 mm	Natural colour	
	616T20=2000X4	2000 mm	1000 mm	4 mm	Natural colour	
	616T20=2000X5	2000 mm	1000 mm	5 mm	Natural colour	
	616T20=2000X6	2000 mm	1000 mm	6 mm	Natural colour	
	616T20=2000X8	2000 mm	1000 mm	8 mm	Natural colour	
	616T20=2000X10	2000 mm	1000 mm	10 mm	Natural colour	
	616T20=2000X12	2000 mm	1000 mm	12 mm	Natural colour	
	616T20=2000X15	2000 mm	1000 mm	15 mm	Natural colour	
		616T56=3	2000 mm	1000 mm	3 mm	Brown
		616T56=4	2000 mm	1000 mm	4 mm	Brown
		616T56=5	2000 mm	1000 mm	5 mm	Brown
616T56=6		2000 mm	1000 mm	6 mm	Brown	



#### Practical recommendation 616T\*

The low impact value means great care must be taken during machining in order to avoid brittle fractures (stress concentration).



### ThermoLyn PE 200

Reference number 616T\*

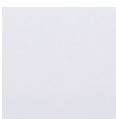


- Polyethylene 200
- For fabricating orthoses, e.g. TLSOs
- Low molecular weight
- Good welding characteristics
- Good sanding characteristics
- Can be combined with, for example, 617S7/617S8 Plastazote®
- Minor shrinkage: approx. 8%
- Easy to dye with Ottobock thermopapers
- Temperature recommendation: 165 °C (convection oven, infrared oven)

#### Technical data

#### Information material

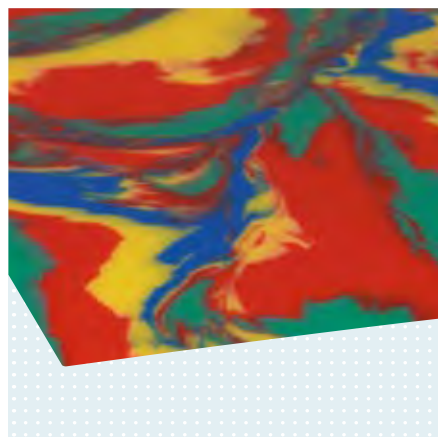
646F265=EN\_INT

Thermoplastics poster

Article image	Article number	Length	Width	Thickness	Colour
	616T95=2	2000 mm	1000 mm	2 mm	Natural colour
	616T95=3	2000 mm	1000 mm	3 mm	Natural colour
	616T95=4	2000 mm	1000 mm	4 mm	Natural colour
	616T95=5	2000 mm	1000 mm	5 mm	Natural colour
	616T95=6	2000 mm	1000 mm	6 mm	Natural colour
	616T95=8	2000 mm	1000 mm	8 mm	Natural colour
	616T95=10	2000 mm	1000 mm	10 mm	Natural colour
	616T95=12	2000 mm	1000 mm	12 mm	Natural colour
	616T19=3-0	2000 mm	1000 mm	3 mm	Beige
	616T19=4-0	2000 mm	1000 mm	4 mm	Beige
	616T19=5-0	2000 mm	1000 mm	5 mm	Beige
	616T58=3	2000 mm	1000 mm	3 mm	Blue
	616T58=4	2000 mm	1000 mm	4 mm	Blue
	616T58=5	2000 mm	1000 mm	5 mm	Blue
	616T58=6	2000 mm	1000 mm	6 mm	Blue

# Materials, tools and accessories

## Thermoplastics



### ThermoLyn RCH 500

Reference number 616T\*

- Polyethylene
- For fabricating orthoses, e.g. KAFOs, and for seating shells
- Homogenous thermoplastic material
- Medium molecular weight
- High rigidity
- Good heating behaviour
- Good antifriction properties
- Minor shrinkage: approx. 2%
- Temperature recommendation: 185 °C (convection oven, infrared oven)

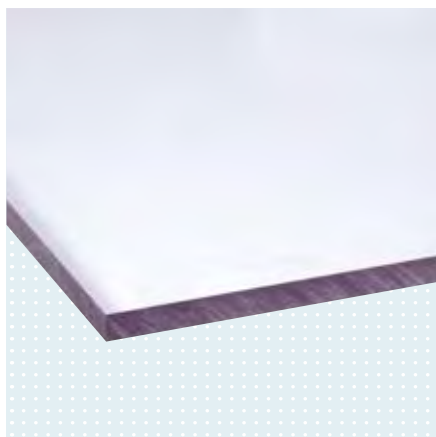
#### Technical data

#### Information material

646F265=EN\_INT

Thermoplastics poster

Article image	Article number	Length	Width	Thickness	Colour
	616T22=950X3N	950 mm	910 mm	3 mm	Natural colour
	616T22=950X4N	950 mm	910 mm	4 mm	Natural colour
	616T22=950X5N	950 mm	910 mm	5 mm	Natural colour
	616T22=950X6N	950 mm	910 mm	6 mm	Natural colour
	616T22=1910X2N	1910 mm	910 mm	2 mm	Natural colour
	616T22=1910X3N	1910 mm	910 mm	3 mm	Natural colour
	616T22=1910X4N	1910 mm	910 mm	4 mm	Natural colour
	616T22=1910X5N	1910 mm	910 mm	5 mm	Natural colour
	616T22=1910X6N	1910 mm	910 mm	6 mm	Natural colour
	616T22=1910X8N	1910 mm	910 mm	8 mm	Natural colour
	616T22=950X2H	950 mm	910 mm	2 mm	Beige
	616T22=950X3H	950 mm	910 mm	3 mm	Beige
	616T22=950X4H	950 mm	910 mm	4 mm	Beige
	616T22=950X5H	950 mm	910 mm	5 mm	Beige
	616T22=1910X2H	1910 mm	910 mm	2 mm	Beige
	616T22=1910X3H	1910 mm	910 mm	3 mm	Beige
	616T22=1910X4H	1910 mm	910 mm	4 mm	Beige
	616T22=1910X5H	1910 mm	910 mm	5 mm	Beige
	616T22=1910X3G	1910 mm	910 mm	3 mm	Graffiti
	616T22=1910X4G	1910 mm	910 mm	4 mm	Graffiti
	616T22=1910X5G	1910 mm	910 mm	5 mm	Graffiti
	616T44=950X3	950 mm	910 mm	3 mm	Blue
	616T44=950X4	950 mm	910 mm	4 mm	Blue
	616T44=950X5	950 mm	910 mm	5 mm	Blue
	616T44=1910X2	1910 mm	910 mm	2 mm	Blue
	616T44=1910X3	1910 mm	910 mm	3 mm	Blue
	616T44=1910X4	1910 mm	910 mm	4 mm	Blue



### ThermoLyn clear

Reference number 616T83

- Copolyester
- For fabricating scar compression masks, trial orthoses and self-supporting check sockets (limited wearing time)
- Also in antibacterial (616T283)
- Transparency of the check socket facilitates precise verification of the fit and skin discolouration on the residual limb
- Good fracture resistance
- Very high impact strength
- High dimensional stability
- Can be over-laminated to secure adapters
- Minor shrinkage: approx. 1%
- Temperature recommendation: 165 °C (convection oven, infrared oven)

#### Information material

646F265=EN_INT	Thermoplastics poster
646D119=GB	Antibacterial SKINGUARD materials product information
646D695=EN_INT	SKINGUARD technology patient information

#### Technical data

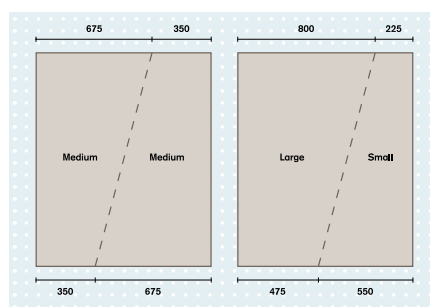
Article number	For the fabrication of	Length	Width	Thickness	Colour
616T83=8	Trial orthoses	400 mm	400 mm	8 mm	Clear
616T83=10	Self-supporting check sockets (for temporary use)	400 mm	400 mm	10 mm	Clear
616T83=12	Self-supporting check sockets (for temporary use)	400 mm	400 mm	12 mm	Clear
616T83=15	Self-supporting check sockets (for temporary use)	400 mm	400 mm	15 mm	Clear
616T83=20	Self-supporting check sockets (for temporary use)	400 mm	400 mm	20 mm	Clear
616T83=1250X1025X3	Scar compression masks	1250 mm	1025 mm	3 mm	Clear
616T83=1250X1025X4	Scar compression masks	1250 mm	1025 mm	4 mm	Clear
616T83=1250X1025X6	Trial orthoses	1250 mm	1025 mm	6 mm	Clear



#### Practical recommendation 616T83

- Store in a dry place protected from moisture. Pre-dry at 55 °C in a convection oven prior to processing if necessary.
- We recommend hot air for working edges.

### Processing and usage examples for 616T83



#### Cutting suggestion

Cutting suggestion for 616T83 ThermoLyn clear, 6 mm (1250 x 1025 mm sheet) for a low amount of waste with trial orthoses (KAFOs)

# Materials, tools and accessories

## Thermoplastics



### Silicone parting agent

Reference number 519L5

- For parting, gliding and lubricating
- Protects rubber, plastics and elastomers from becoming brittle
- Compact and solvent-free
- CFC-free



#### Technical data

Article number	Net contents
519L5	0.4 l



### TP.C woven carbon fibre

Reference number 617R15

- For high-strength, very thin orthoses on a thermoplastic material basis
- Matrix: TPU
- Type of fibre: carbon
- Can be thermoformed under pressure
- High tensile strength
- Suitable for surfaces
- Suitable for painting
- Potentially adhesive
- Can be welded with components of the same matrix
- Clean processing
- No special storage requirements (e.g. no cooling)
- Moderate thermoforming temperature: approx. 220 °C

#### Information material

646F265=EN_INT	Thermoplastics poster
646A174=GB	Prepreg technology product information
646T757=EN	617R15 TP.C and 617R18 TP.C textile technical information

#### Technical data

Article number	Thickness	Packaging	Area	Fibre weight per unit area	Weave type	Fibre content	Resin content
617R15=1	Approx. 0.25 mm	3 sheets at 1000 x 430 mm per sheet	1.29 m <sup>2</sup>	200 g/m <sup>2</sup>	Twill 2/2	60 % by weight	40 % by weight
617R15=2	Approx. 0.25 mm	6 sheets at 1000 x 430 mm per sheet	2.58 m <sup>2</sup>	200 g/m <sup>2</sup>	Twill 2/2	60 % by weight	40 % by weight
617R15=5	Approx. 0.25 mm	12 sheets at 1,000 x 430 mm per sheet	5.16 m <sup>2</sup>	200 g/m <sup>2</sup>	Twill 2/2	60 % by weight	40 % by weight



### T.P.C textile

Reference number 617R18

- For prostheses and orthoses on a PP thermoplastic material basis
- Can be used as reinforcement for ThermoLyn PP-H (article no. 616T20=\*)
- Matrix: polypropylene
- Type of fibre: aramid
- Can be thermoformed under pressure
- High tensile strength
- Suitable for surfaces
- Can be welded with components of the same matrix
- Clean processing
- No cooling required, but store UV protected
- Moderate thermoforming temperature: approx. 220 °C

#### Information material

646D1446=EN_INT	617R18 T.P.C textile product brief
646F265=EN_INT	Thermoplastics poster
646T757=EN	617R15 T.P.C and 617R18 T.P.C textile technical information

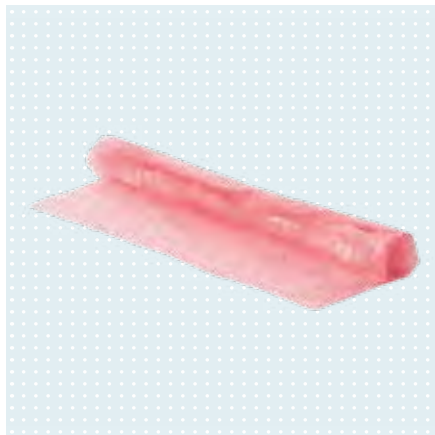
#### Technical data

Article number	Length	Width	Fibre weight per unit area	Weave type
617R18=50X2	2 m	50 mm	400 g/m <sup>2</sup>	Twill 2/2
617R18=100X2	2 m	100 mm	400 g/m <sup>2</sup>	Twill 2/2
617R18=190X2	2 m	190 mm	400 g/m <sup>2</sup>	Twill 2/2



#### Practical recommendation 617R18

The 617R18 T.P.C textile is particularly easy to process with the 755E62 and 755E5 Ottobock vacuum forming devices.



### Separating film

Reference number 616F28

- Processing aid for T.P.C
- Makes a glossy, clean surface that is optimally suited for further coating or painting
- Thermally stable
- Elongation at break: 300% +/-10%
- Tensile strength of 24 N/mm<sup>2</sup>
- Processing temperature: max. 260 °C
- Can be easily peeled off after curing

#### Technical data

Article number	Length	Width	Thickness	Colour
616F28=10000X1220	10000 mm	1220 mm	0.013 mm	Red

#### Information material

646A174=GB	Prepreg technology product information
646T757=EN	617R15 T.P.C and 617R18 T.P.C textile technical information

# Materials, tools and accessories

## Plaster casting materials



### Elastic plaster bandages

Reference number 699G1

- For taking a plaster cast
- Compression of the elastic bandage begins as the plaster cures
- Curing time adapted to the application
- Coated plaster bandage that leads to less plaster waste, is easier and faster to work with, can take loads earlier and results in a higher final strength of the bandage

#### Technical data

Article number	Length	Width	Order unit	Package contents
699G1=10-12	3.6 m	10 cm	Package	12 pieces
699G1=12-12	3.6 m	12 cm	Package	12 pieces



### Cellona® plaster bandages

Reference number 699G\*

- For taking a plaster cast
- Easy moulding
- The bandage is ready for loading or transportation after only approx. 30 minutes and fully cured after approx. 24 hours
- Coated plaster bandage that leads to less plaster waste, is easier and faster to work with, can take loads earlier and results in a higher final strength of the bandage

#### Technical data

Article number	Length	Width	Order unit	Package contents
699G3=6-10	2 m	6 cm	Package	10 pieces
699G3=8-10	2 m	8 cm	Package	10 pieces
699G3=10-10	2 m	10 cm	Package	10 pieces
699G3=12-10	2 m	12 cm	Package	10 pieces
699G3=15-10	2 m	15 cm	Package	10 pieces
699G3=20-10	2 m	20 cm	Package	10 pieces
699G9=10-10	3 m	10 cm	Package	10 pieces
699G9=12-10	3 m	12 cm	Package	10 pieces
699G9=15-10	3 m	15 cm	Package	10 pieces
699G9=20-10	3 m	20 cm	Package	10 pieces

Cellona® is a registered trademark of Lohmann.



### Cellacast Xtra® synthetic casting tapes

Reference number 699G30

- For immobilisation after fractures, operations and orthopaedic corrections; for treatment of joint and bone disorders and for promoting mobilisation as well as for bandaging child patients
- For making temporary fastenings in prosthetics (socket protection/adaptor securing, e.g. check sockets)
- For producing negative casts (orthotics)
- Alternative to the conventional plaster bandage
- Lightweight, permeable to air, X-ray transparent, waterproof and very stable once hardened
- Good adhesion to various materials, e.g. wood, lamination resin, foam, thermoplastic materials

#### Technical data

Article number	Length	Width	Colour	Order unit	Package contents
699G30=5-3-10	3.6 m	5 cm	Green	Package	10 pieces
699G30=7.5-3-10	3.6 m	7.5 cm	Green	Package	10 pieces
699G30=10-3-10	3.6 m	10 cm	Green	Package	10 pieces
699G30=12.5-3-10	3.6 m	12.5 cm	Green	Package	10 pieces
699G30=5-4-10	3.6 m	5 cm	Yellow	Package	10 pieces
699G30=7.5-4-10	3.6 m	7.5 cm	Yellow	Package	10 pieces
699G30=10-4-10	3.6 m	10 cm	Yellow	Package	10 pieces
699G30=12.5-4-10	3.6 m	12.5 cm	Yellow	Package	10 pieces
699G30=5-5-10	3.6 m	5 cm	Blue	Package	10 pieces
699G30=7.5-5-10	3.6 m	7.5 cm	Blue	Package	10 pieces
699G30=10-5-10	3.6 m	10 cm	Blue	Package	10 pieces
699G30=12.5-5-10	3.6 m	12.5 cm	Blue	Package	10 pieces
699G30=5-9-10	3.6 m	5 cm	Cream	Package	10 pieces
699G30=7.5-9-10	3.6 m	7.5 cm	Cream	Package	10 pieces
699G30=10-9-10	3.6 m	10 cm	Cream	Package	10 pieces
699G30=12.5-9-10	3.6 m	12.5 cm	Cream	Package	10 pieces
699G30=5-13-10	3.6 m	5 cm	Orange	Package	10 pieces
699G30=7.5-13-10	3.6 m	7.5 cm	Orange	Package	10 pieces
699G30=10-13-10	3.6 m	10 cm	Orange	Package	10 pieces
699G30=12.5-13-10	3.6 m	12.5 cm	Orange	Package	10 pieces



#### Practical recommendation 699G30

- We recommend using 641H9=2 latex-free examination gloves for processing.
- The bandage can be prevented from sticking to the skin by enveloping all surfaces that come into contact with the synthetic bandage in a body protection stockinette (e.g. 81A1 nylon sock on a roll) before applying the bandage.



# Materials, tools and accessories

## Plaster casting materials



### Porous plaster

Reference number 87G4

- Special plaster for direct contact with silicones in vacuum technology for Pastasil and Chlorosil
- Porous plaster for silicone technology
- Harder than modelling plaster
- Very good stability
- Low water consumption

#### Technical data

Article number	Net contents
87G4=25	25 kg

#### Mixing ratio

Water	Porous plaster 87G4
1	1,6



#### Practical recommendation 87G4

- Mixing time approx. 2–4 minutes.
- To protect the product during use, open or partly used bags should be carefully folded and sealed.



## Orthocryl lamination resin 80:20 Speed

Reference number 617H19S

- Lamination resin for small prosthetic and orthotic components
- Same mixing ratio of hardener powder and lamination resin as with 617H19 Orthocryl lamination resin 80:20 (max. 3%)
- Requires only half the curing time of Orthocryl lamination resin 80:20
- Using the same proportion of hardener powder prevents the formation of bubbles and a brittle lamination with a shorter curing time
- Consistent lamination quality as with Orthocryl lamination resin 80:20, with a reduced curing time
- Same viscosity with the same mechanical characteristics as Orthocryl lamination resin 80:20
- Can be combined with all common reinforcement materials in orthopaedic technology
- Hardener/colour pastes are easy to mix

### Mixing ratio

Resin	Hardener	Pigment paste
100	2-3	3

### Information material

646D1444=EN_MASTER	617H19S Orthocryl lamination resin 80:20 Speed product brief
646F351=EN_MASTER	Lamination resins poster



### Technical data

Article number	Net contents
617H19S=0.900	0.9 kg
617H19S=4.600	4.6 kg
617H19S=25	25 kg

- The 642K13 filling set is available as an accessory for containers of 25 kg and over.

### **i** Practical recommendation 617H19S

Adding hardener powders in proportions greater than 3% results in the formation of bubbles and a brittle lamination with all lamination resins used in the field of orthopaedic technology. Use 617H19S Orthocryl lamination resin 80:20 Speed to make small components available for further processing more quickly, without jeopardising quality.



# Materials, tools and accessories

## Materials for lamination technique



### Orthocryl lamination resin 80:20

Reference number 617H19

- The proven classic material for laminating
- Optimum 80:20 ratio for fabricating stiff laminates (with 20% 617H17 Orthocryl, soft)
- Can be combined with all common reinforcement materials in orthopaedic technology
- 617H19=25 P supplied in plastic canister (filling set included)



#### Technical data

Article number	Net contents
617H19=0.900 E	0.9 kg
617H19=4.600 E	4.6 kg
617H19=25 E	25 kg
617H19=25 P	25 kg

- The 642K13 filling set is available as an accessory for metal containers of 25 kg and over.

**i** **Practical recommendation 617H19**  
For sheet casting, use only 616F4 PVA bag or 99B81 PVA tubes.

**Mixing ratio**

Resin	Hardener	Pigment paste
100	2-3	3

**Information material**  
646F351=EN\_MASTER Lamination resins poster



### C-Orthocryl

Reference number 617H55

- Lamination resin for carbon fibre technique
- Facilitates fabricating components with a low proportion of resin
- Optimum ratio of matrix to reinforcing materials



#### Technical data

Article number	Net contents
617H55=0.900	0.9 kg
617H55=4.600	4.6 kg
617H55=25	25 kg

- The 642K13 filling set is available as an accessory for containers of 25 kg and over.

**i** **Practical recommendation 617H55**  
• No filter layers are required when casting carbon on carbon.  
• For sheet casting, use only 616F4 PVA bag or 99B81 PVA tubes.

**Mixing ratio**

Resin	Hardener	Pigment paste
100	2-3	3

**Information material**  
646F351=EN\_MASTER Lamination resins poster



## Orthocryl lamination resin 80:20 PRO

Reference number 617H119

- Lamination resin for the fabrication of components with a low proportion of resin
- Lower viscosity with the same mechanical characteristics as 617H19
- Better penetration of the reinforcement
- Faster evacuation of air from the reinforcement
- The air that is evacuated and subsequently rises can escape from the resin during lamination and is not locked into the resin. This increases the quality and stability of the end result
- Hardener/colour pastes are easier to mix



### Mixing ratio

Resin	Hardener	Pigment paste
100	2-3	3

### Information material

646D1443=EN_MASTER	617H119 Orthocryl lamination resin 80:20 PRO product brief
646D718=EN	617H119 Orthocryl lamination resin 80:20 PRO product information
646F351=EN_MASTER	Lamination resins poster

### Technical data

Article number	Net contents
617H119=0.900	0.9 kg
617H119=4.600	4.6 kg
617H119=25	25 kg

- The 642K13 filling set is available as an accessory for containers of 25 kg and over.



## Thinner for Orthocryl resins

Reference number 634A28

- For thinning, especially of Orthocryl resins
- For cleaning
- For altering the viscosity of the resin, particularly for swashing out open-pored Pedilen sockets
- Can also be used for working the edges of check sockets such as ThermoLyn clear, ThermoLyn rigid, ThermoLyn PETG clear



### Technical data

Article number	Net contents
634A28	0.8 kg

# Materials, tools and accessories

## Materials for lamination technique



### Hardening powder

Reference number 617P37

- For Orthocryl resins and 617H500 Orthovinyl resin as well as 636K18 Orthocryl sealing resin compact adhesive
- Includes 1 g measuring spoon
- Mixes well with Orthocryl and Orthovinyl resins
- Easy dosing
- Reduces the flow properties of Orthocryl and Orthovinyl resins



#### Information material

646F351=EN\_MASTER Lamination resins poster

#### Technical data

Article number	Net contents
617P37=0.150	0.15 kg

#### **i** Practical recommendation 617P37

Applies to all Orthocryl resins: add max. 3% 617P37 hardening powder.



### Orthopox epoxy resin

Reference number 617H5

- For lightweight, thin-walled, yet sturdy laminates
- Transparent, epoxy-based resin
- Optimum resin content is easily adjusted
- Small number of layers possible
- Optimum ratio of matrix to reinforcing materials
- Optimum impregnation, especially of carbon fibres
- Good bonding to the reinforcement fibres
- Higher structural strength compared to acrylic resins
- Produces a very smooth surface
- Can be coloured with Ottobock pigment pastes
- Curing time can be controlled by temperature



#### Mixing ratio

Resin	Hardener	Pigment paste
100	26	max. 3

#### Information material

646D1445=EN\_MASTER 617H5 Orthopox epoxy resin product brief  
 646F351=EN\_MASTER Lamination resins poster

#### Technical data

Article number	Net contents
617H5=1	1 kg
617H5=5	5 kg

#### **i** Practical recommendation 617H5

- Can be demoulded after 10 hours at 23 °C ambient temperature under a vacuum.
- Interim annealing for 1 hour at 60 °C for optimal processing.
- Final annealing for tension-free final hardness, 1 hour at 100 °C.
- Optional: for permanent skin contact, 10 hours at 80 °C.



### EP hardener for Orthopox

Reference number 617P5

- For 617H5 Orthopox epoxy resin

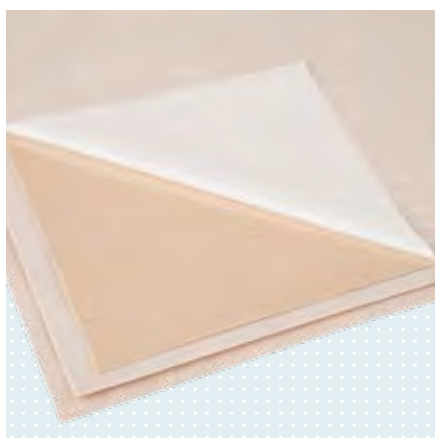


#### Technical data

Article number	Net contents
617P5=0.26	0.26 kg
617P5=0.7	0.7 kg

#### Information material

646F351=EN\_MASTER Lamination resins poster



### Resin film

Reference number 616B60

- Developed especially for fabricating exceptionally sturdy and lightweight prostheses and orthoses
- Lighter, thinner components with rigidity equal to that of components on acrylic resin basis
- On epoxy resin basis
- Clean and easy processing
- Excellent draping characteristics
- Resin quantity can be applied precisely
- Adjustable resin content
- Cut pieces of resin film can be stored in a conventional freezer
- Smaller storage volumes in freezer compared to prepreg
- Saves auxiliary materials (e.g. no additional fixing of reinforcing materials required)
- Can be combined with Ottobock reinforcement materials and prepreps

#### Information material

646D1477=EN\_MASTER 616B60 resin film product brief



#### Technical data

Article number	Packaging	Package	Weight per unit area
616B60=2	23 foils at 300 x 300 mm per foil	2 m <sup>2</sup>	340 g/m <sup>2</sup>
616B60=5	56 foils at 300 x 300 mm per foil	5 m <sup>2</sup>	340 g/m <sup>2</sup>
616B60=10	112 foils at 300 x 300 mm per foil	10 m <sup>2</sup>	340 g/m <sup>2</sup>

- When stored at a temperature of -18 °C, the resin film can be processed for approximately 12 months; at room temperature, a maximum of 21 days. Freeze in moisture-proof sealed packaging; in order to avoid condensation, thaw to room temperature in moisture-proof sealed packaging. Each thawing and freezing cycle reduces the storage stability and degrades the quality significantly.
- Shipping days: Monday, Tuesday, Wednesday



#### Practical recommendation 616B60

- The optimal processing temperature is between 20 °C and 23 °C.
- Make sure the processing area is dry and free of dust, talcum and grease.
- The resin content of the laminate should be at least 50% by weight. For this reason, please pay attention to the weight per unit area of your reinforcement material.
- We recommend using the 633T18 cooling spray to make it easier to remove the protective film from the resin film. Spray the edge of the protective film lightly for this purpose.
- For the first layer, apply spray adhesive to the laminating tool.
- Cure for 4 h under vacuum in a 130 °C oven.

# Materials, tools and accessories

## Materials for lamination technique



### Cooling spray

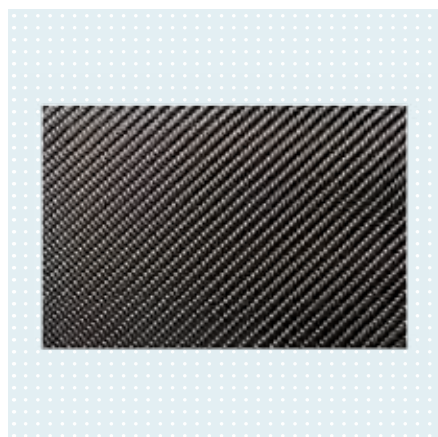
Reference number 633T18

- Device for loosening the covering film on prepregs
- Device for loosening the covering film on 616B60 resin film
- Useful for demoulding components
- For immediate cooling of smaller areas or parts
- Possible temperature as low as -48 °C depending on spray duration
- Very rapid evaporation with no residue
- Good cleaning effect
- No detrimental influences on plastics or insulating materials



#### Technical data

Article number	Net contents
633T18	400 ml



### Orthopox woven carbon fibre

Reference number 616G12

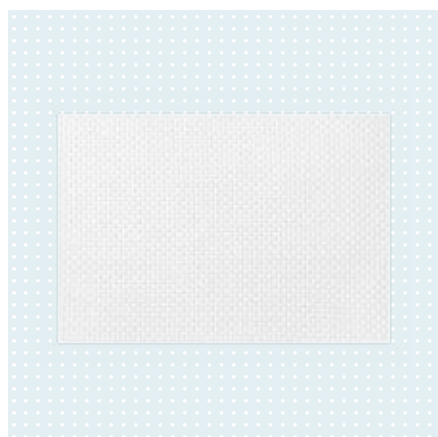
- Reinforcement fibres for 617H5 Orthopox epoxy resin and 616B60 resin film
- Not for use with acrylic resins
- No fraying of the fibres
- No double-sided adhesive tape required

#### Technical data

Article number	Length	Width
616G12=H5.1	1 m	1.20 m
616G12=H5.5	5 m	1.20 m

#### Information material

646F351=EN\_MASTER Lamination resins poster



### Orthopox woven flex

Reference number 616G181

- Reinforcement fibres for 617H5 Orthopox epoxy resin and 616B60 resin film
- Not for use with acrylic resins
- Dyneema substitute with better resin adhesion
- Protects against breakage
- Very good post-processing characteristics (e.g. sanding)

#### Technical data

Article number	Length	Width
616G181=H5.2	2 m	1.25 m

#### Information material

646F351=EN\_MASTER Lamination resins poster







### Pigment paste

Reference number 617Z2

- For lamination resins and putties
- For sealing resin and sealing resin compact adhesive
- For a natural look
- Mixes well
- Good surface coverage



#### Technical data

Article image	Article number	Net contents	Packaging	Description	
	617Z2=0.180	0.18 kg	Tube	Beige (light)	
	617Z2=1	1 kg	Can	Beige (light)	



#### Practical recommendation 617Z2

Mix pigment paste and lamination resin well. Once mixing is complete, add hardener.



# Materials, tools and accessories

## Materials for lamination technique










### Pigment paste

Reference number 617Z\*

- For lamination resins and putties
- For sealing resin and sealing resin compact adhesive
- Large choice of colours
- High luminosity
- Mixes well
- Good surface coverage



#### Technical data

Article number	Net contents	Description	
617Z3	0.25 kg	Tan beige	
617Z4	0.25 kg	White	
617Z5	0.25 kg	Yellow	
617Z6	0.2 kg	Red	
617Z7	0.25 kg	Blue	
617Z9	0.25 kg	Black	
617Z58=3	0.25 kg	Green	



#### Practical recommendation 617Z\*

Mix pigment paste and lamination resin well. Once mixing is complete, add hardener.



### Measuring cup

Reference number 642B2

- Polypropylene measuring cup
- Scaling facilitates a precise mixing ratio
- The 1000-g cup is especially well suited for laminating pelvic sockets and orthoses, and for taking impressions and foaming with large volumes
- Reusable

#### Technical data

Article number	Volume	Minimum order quantity
642B2=50	50 g	100 pieces
642B2=100	100 g	100 pieces
642B2=200	200 g	100 pieces
642B2=400	400 g	100 pieces
642B2=1000	1000 g	100 pieces



#### Practical recommendation 642B2

- The varying density of the foam and hardener results in a precise mixing ratio of 1:1. We recommend using a measuring cup to ensure this mixing ratio.
- Add slightly more than the required amount of liquid foam, since a small amount often remains in the measuring cup.



### PVA bags

Reference number 99B81

- For working with lamination resins as well as prepreg and resin film
- Sizes available for all amputation and orthosis types
- Film adapts to contours extremely well
- Easy to weld with the 756E1 hand sealing iron
- Good stretching properties
- High resistance to tearing

#### Technical data

Article number	For the fabrication of	Length	Width	Height	Thickness	Order unit	Package contents
99B81=60X11X4	Upper limb prostheses	60 cm	11 cm	4 cm	0.08 mm	Package	10 pieces
99B81=70X19X5	Soft-walled inner sockets and transtibial prostheses	70 cm	19 cm	5 cm	0.08 mm	Package	10 pieces
99B81=70X27X5	Thigh sleeves/ transfemoral prostheses	70 cm	27 cm	5 cm	0.08 mm	Package	10 pieces
99B81=100X12X4	Upper limb prostheses	100 cm	12 cm	4 cm	0.08 mm	Package	10 pieces
99B81=100X19X5	Transtibial prostheses	100 cm	19 cm	5 cm	0.08 mm	Package	10 pieces
99B81=100X26X5	Transfemoral prostheses	100 cm	26 cm	5 cm	0.08 mm	Package	10 pieces
99B81=100X30X5	Transfemoral prostheses	100 cm	30 cm	5 cm	0.08 mm	Package	10 pieces
99B81=100X36X5	Transfemoral prostheses	100 cm	36 cm	5 cm	0.08 mm	Package	10 pieces
99B81=120X50X10	Hip disarticulation	120 cm	50 cm	10 cm	0.08 mm	Package	10 pieces
99B81=130X19X5	KAFO	130 cm	19 cm	5 cm	0.08 mm	Package	10 pieces
99B81=130X22X5	KAFO	130 cm	22 cm	5 cm	0.08 mm	Package	10 pieces
99B81=130X26X5	KAFO	130 cm	26 cm	5 cm	0.08 mm	Package	10 pieces

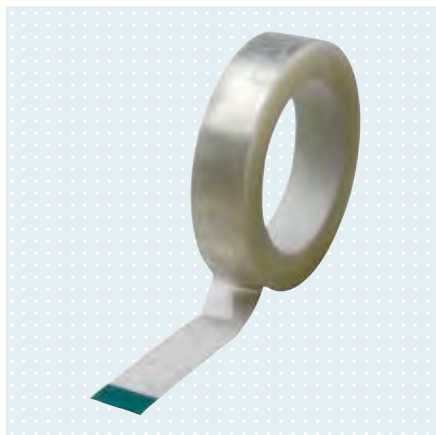
#### Information material

646A174=GB

Prepreg technology  
product information

# Materials, tools and accessories

## Materials for lamination technique



### Polyethylene adhesive tape

Reference number 627B40

- For sealing damaged PVA film
- The proven classic material
- Wide range of applications
- Base material: PE sheeting
- Acrylic adhesive material
- High elasticity
- High resistance to tearing
- Thermally stable



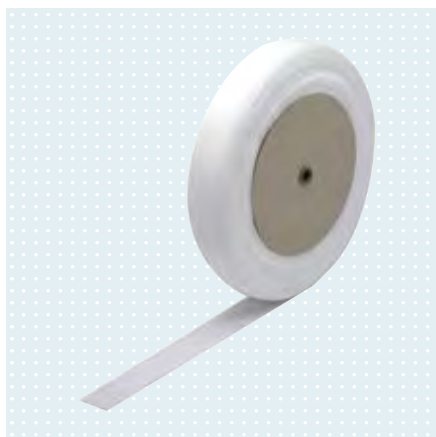
#### Technical data

Article number	Length	Width	Colour	Order unit
627B40	33 m	25 mm	Transparent	roll

### Processing and usage examples for 627B40



Apply 627B40 polyethylene adhesive tape around the areas that are to be opened after laminating; while doing so, excessive resin in these areas can be reduced with the pre-tensioned adhesive tape. With a given pre-tensioning, the adhesive tape can be twisted to a cord so that excess resin can also be reduced in areas that are difficult to access.



### Nylon sock

Reference number 81A1

- For plaster casting, e.g. for KAFOs
- Suitable as a filter and final layer for laminating
- For reinforcing Pastasil
- For vacuum technique with Chlorosil
- Polyamide
- Especially elastic
- Not pre-impregnated



#### Technical data

Article number	Length	Width	Weight
81A1=8	101.5 m	8 cm	1 kg
81A1=10	84.6 m	10 cm	1 kg
81A1=12	67.8 m	12 cm	1 kg
81A1=15	52.5 m	15 cm	1 kg
81A1=20	48 m	20 cm	1 kg



**Practical recommendation 81A1**  
Individually adaptable and weldable.

## Processing and usage examples for 81A1



#### Application example – vacuum forming in orthotics

Pull 81A1 nylon sock over the plaster model, cut to length so it is twice the size of the model, twist off and fold back again.



#### Application example – vacuum forming in prosthetics

Pre-tension the 81A1 nylon sock, twist it and then secure it with combination pliers. Using a pair of scissors, cut off the end of the seam. Using the flame of a cigarette lighter, weld the cut surface and then immediately smoothen the weld seam.



With the welded seam turned inwards, pull the sock over the model.

# Materials, tools and accessories

## Materials – Stockinettes



### Perlon® stockinette, white

Reference number 623T3

- For fabricating laminates
- Knitted fabric
- Finely meshed
- Good stretching properties
- Good shaping
- Smooth surface after laminating
- Suitable for surfaces



#### Technical data

Article number	Length	Width	Weight
623T3=4	45.4 m	4 cm	0.5 kg
623T3=6	27.7 m	6 cm	0.5 kg
623T3=8	20.8 m	8 cm	0.5 kg
623T3=10	37 m	10 cm	1 kg
623T3=12	33.3 m	12 cm	1 kg
623T3=15	27 m	15 cm	1 kg
623T3=20	20 m	20 cm	1 kg
623T3=25	13.5 m	25 cm	1 kg
623T3=30	11.1 m	30 cm	1 kg
623T3=35	10.2 m	35 cm	1 kg
623T3=40	8.8 m	40 cm	1 kg

Perlon® is a registered trademark of Perlon-Monofil GmbH.

All Ottobock reinforcement materials are photographed from top to bottom. Lengthwise (warp), crosswise (weft)



### Nylglas stockinette, white

Reference number 623T9

- For fabricating laminates
- Blend of polyamide (35%) and fibreglass (65%)
- Knitted fabric
- Finely meshed
- High strength
- Low resin absorption combined with high stability



#### Technical data

Article number	Length	Width	Weight
623T9=6	31.2 m	6 cm	0.5 kg
623T9=8	35.7 m	8 cm	1 kg
623T9=10	32.2 m	10 cm	1 kg
623T9=12	26.3 m	12 cm	1 kg
623T9=15	23.8 m	15 cm	1 kg
623T9=20	18 m	20 cm	1 kg
623T9=25	15.2 m	25 cm	1 kg
623T9=30	11.6 m	30 cm	1 kg

# Materials, tools and accessories

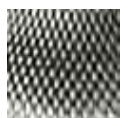
## Materials – Carbon and fibreglass materials



### Carbon UD stockinette

Reference number 616H20

- For axial reinforcement (bending forces) of thin-walled, high-strength laminates
- Designed especially for use with acrylic resins (e.g. 617H55 C-Orthocryl)
- The elastic weft thread allows the carbon threads to maintain their 0° orientation, regardless of the diameter
- No elaborate cutting or forming work is necessary with formed models
- The elastic weft thread facilitates forming the stockinette to the model and saves valuable working time
- Not suitable for surfaces



#### Product example

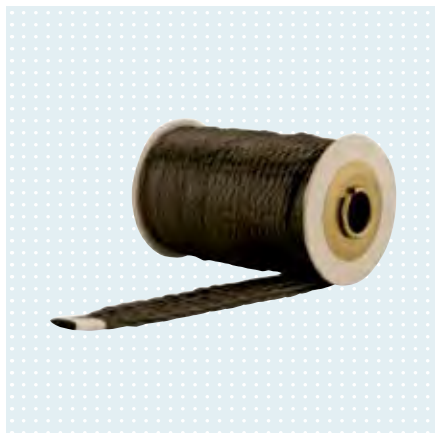


#### Technical data

Article number	Length	Width
616H20=20X5	5 m	20 mm
616H20=40X5	5 m	40 mm
616H20=70X5	5 m	70 mm
616H20=100X5	5 m	100 mm
616H20=150X5	5 m	150 mm

#### **i** Practical recommendation 616H20

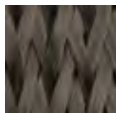
If the laminate is to have radial strength (torsional forces), additional reinforcement materials are required. In this case we recommend using our 616G15 carbon fibre woven stockinette.



### Carbon fibre woven stockinette

Reference number 616G15

- For fabricating rigid lamination resin side struts, clasps and connectors
- For fabricating thin-walled, high-strength laminates
- Netting
- Very high torsional strength in laminates
- Torsion can be influenced by different circumferences (ideal angle: 45°)



#### Technical data

Article number	Length	Width
616G15=20X5	5 m	20 mm
616G15=20X10	10 m	20 mm
616G15=20X25	25 m	20 mm
616G15=20X50	50 m	20 mm
616G15=50X5	5 m	50 mm
616G15=50X10	10 m	50 mm
616G15=50X25	25 m	50 mm
616G15=50X50	50 m	50 mm
616G15=80X5	5 m	80 mm
616G15=80X10	10 m	80 mm
616G15=80X25	25 m	80 mm
616G15=80X50	50 m	80 mm
616G15=120X5	5 m	120 mm
616G15=120X10	10 m	120 mm
616G15=120X25	25 m	120 mm
616G15=120X50	50 m	120 mm



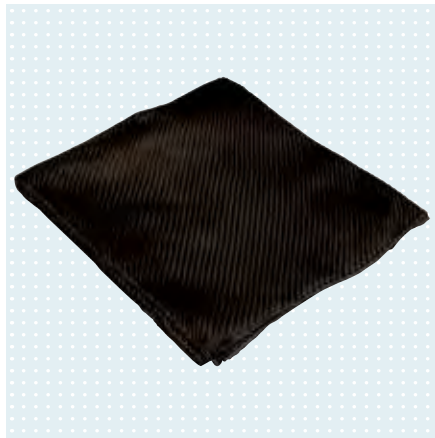
#### Practical recommendation 616G15

Facilitates excellent sandwich properties in conjunction with 17Y106 PVC profile as the core material, especially in prosthetics.



# Materials, tools and accessories

## Materials – Carbon and fibreglass materials



### Woven carbon fibre

Reference number 616G12

- For partial high-strength laminate reinforcements
- Good absorption of all Ottobock lamination resins
- Good draping characteristics



#### Information material

647G51 616G12 woven carbon fibre processing instructions

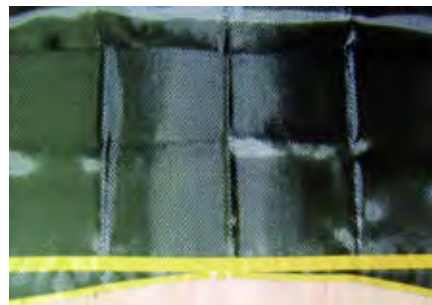
#### Technical data

Article number	Length	Width	Weight per unit area	Weave type
616G12=1	1 m	1200 mm	200 g/m <sup>2</sup>	Twill 2/2
616G12=2	2 m	1200 mm	200 g/m <sup>2</sup>	Twill 2/2
616G12=5	5 m	1200 mm	200 g/m <sup>2</sup>	Twill 2/2
616G12=10	10 m	1200 mm	200 g/m <sup>2</sup>	Twill 2/2
616G12=20	20 m	1200 mm	200 g/m <sup>2</sup>	Twill 2/2
616G12=30	30 m	1200 mm	200 g/m <sup>2</sup>	Twill 2/2

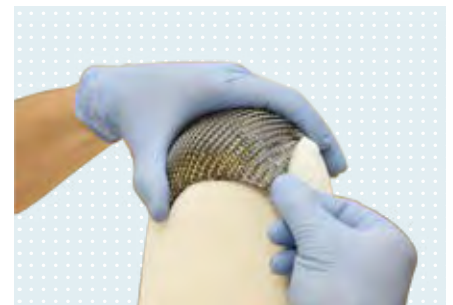
## Processing and usage examples for 616G12



Check that the weft thread of the 616G12 woven carbon fibre is running a straight course by pulling out a weft thread running close to the cut edge.

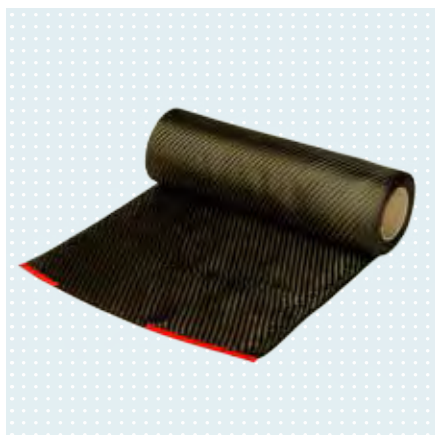


Pull the woven carbon fibre straight to such a degree that the resulting mesh loop runs 90° to the warp. Using 616F10 double-sided PVC adhesive tape, tape over the resulting mesh loop and cut the woven carbon fibre centrally along the adhesive tape. After these preparations have been completed, tailored carbon fibre sections can be made that have a 90° alignment between the warp and the weft. In this way the carbon fibres are not only aligned in accordance with the arising forces, they can also absorb these optimally.



Position the tailored carbon fibre sections on those parts of the reinforcements that are to be strengthened while pre-tensioning them in the fibre directions.

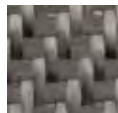
All Ottobock reinforcement materials are photographed from top to bottom. Lengthwise (warp), crosswise (weft)



### Woven carbon fibre

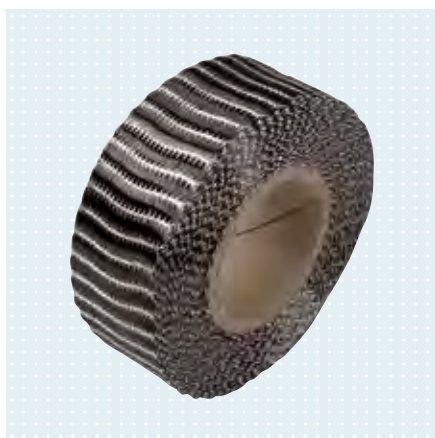
Reference number 616G12

- For partial high-strength laminate reinforcements
- Processability including the woven edge is advantageous (edges are not sewn), because masking is not necessary
- Good absorption of all Ottobock lamination resins
- Good draping characteristics



#### Technical data

Article number	Length	Width	Weight per unit area	Weave type
616G12=50X1	1 m	50 mm	245 g/m <sup>2</sup>	Twill 2/2
616G12=50X5	2 m	50 mm	245 g/m <sup>2</sup>	Twill 2/2
616G12=50X10	10 m	50 mm	245 g/m <sup>2</sup>	Twill 2/2
616G12=100X1	1 m	100 mm	245 g/m <sup>2</sup>	Twill 2/2
616G12=100X5	2 m	100 mm	245 g/m <sup>2</sup>	Twill 2/2
616G12=100X10	10 m	100 mm	245 g/m <sup>2</sup>	Twill 2/2
616G12=300X1	1 m	300 mm	245 g/m <sup>2</sup>	Twill 2/2
616G12=300X5	2 m	300 mm	245 g/m <sup>2</sup>	Twill 2/2
616G12=300X10	10 m	300 mm	245 g/m <sup>2</sup>	Twill 2/2



### Carbon fibreglass webbing

Reference number 616H11

- For partial high-strength, unidirectional laminate reinforcements
- Combines the properties of carbon fibres in longitudinal direction and glass fibres in transverse direction
- Easy to shape thanks to glass weft thread
- Good draping characteristics
- Not suitable for surfaces



#### Technical data

Article number	Length	Width	Weight per unit area	Weave type
616H11=25X5	2 m	25 mm	410 g/m <sup>2</sup>	Plain weave
616H11=25X10	10 m	25 mm	410 g/m <sup>2</sup>	Plain weave
616H11=25X20	20 m	25 mm	410 g/m <sup>2</sup>	Plain weave
616H11=25X50	50 m	25 mm	410 g/m <sup>2</sup>	Plain weave
616H11=50X5	2 m	50 mm	410 g/m <sup>2</sup>	Plain weave
616H11=50X10	10 m	50 mm	410 g/m <sup>2</sup>	Plain weave
616H11=50X20	20 m	50 mm	410 g/m <sup>2</sup>	Plain weave
616H11=50X50	50 m	50 mm	410 g/m <sup>2</sup>	Plain weave

# Materials, tools and accessories

## Materials – Carbon and fibreglass materials



### PVC profile bars

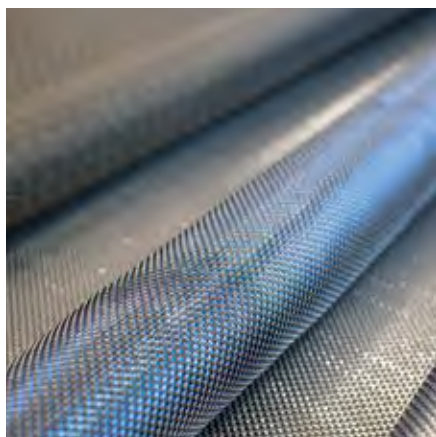
Reference number 17Y106

- As profile material in carbon fibre technique, especially in orthotics and for frame sockets in prosthetics
- Lightweight
- Easy to work with
- Thermoformable at 80 °C

#### Technical data

Article number	Length	Width	Quantity unit
17Y106=500X16	500 mm	16 mm	Piece
17Y106=500X20	500 mm	20 mm	Piece
17Y106=1000X16	1000 mm	16 mm	Piece
17Y106=1000X20	1000 mm	20 mm	Piece

All Ottobock reinforcement materials are photographed from top to bottom. Lengthwise (warp), crosswise (weft)

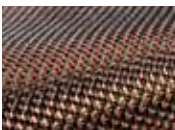
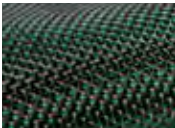
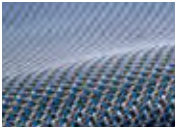
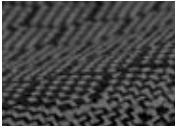
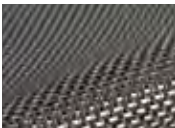


## CarbonTEX PRO – woven carbon fibre

Reference number 616G128

- For custom colouring with lamination technique
- Excellent draping and sanding characteristics
- Glossy look thanks to metallised woven carbon fibre
- Good absorption of all Ottobock lamination resins
- Conventional lamination process
- No additional technical knowledge or workshop facilities required
- Extensive choice of designs

### Technical data

Article image	Article number	Length	Width	Colour
	616G128=3-2	3 m	1 m	Light red
	616G128=3-3	3 m	1 m	Green
	616G128=3-5	3 m	1 m	Blue
	616G128=3-7	3 m	1 m	Hexagon black
	616G128=3-16	3 m	1 m	Silver

### Information material

646D1467=EN_INT	616G128 CarbonTEX PRO product brief
646M80	616G128 CarbonTEX PRO sample swatch
646D696=EN	Finishing product information



### Practical recommendation 616G128

- Can be used with acrylic, vinyl, epoxy and polyester resin systems.
- Suitable for decorative purposes but not as a structural laminate component.
- Laminate without colour paste to prevent distortion of the colour result.
- Directly after cutting to size/sanding the socket, apply a transparent acrylic coating to the proximal edge. We recommend applying at least two layers and using wet/dry fine sandpaper between the layers. This approach is particularly well suited for sealing the upper socket brim. The external appearance of the upgraded socket is also optimised as a result.

# Materials, tools and accessories

## Finishing

### Processing and usage examples for 616G128



641H17 chemical protection gloves, protective goggles and a breathing mask should be worn for occupational safety reasons. Perform all process steps under an extractor hood.

Sand the surface of the socket to be laminated, clean with 634A58 isopropyl alcohol and mark the position of the subsequent CarbonTEX PRO seam on the socket with a pencil.

Measure the socket length and circumference. Cut a corresponding piece of CarbonTEX PRO with a width and length that is 10 cm larger than the respective measurement. To prevent the fibres from fraying, tape off the outside of the cut edge. Apply 636K40 removable spray adhesive to the socket, starting on the side opposite the marked CarbonTEX PRO seam. Then continue wetting the socket gradually, applying the layer of CarbonTEX PRO around the socket without wrinkles and pressing it into place in the direction of the seam.



Attach one end of the layer of CarbonTEX PRO to the previously marked seam with 616F10=6 double-sided PVC adhesive tape and trim the excess material with the 719S21 carbon scissors. Then press any protruding fibres in place again. Repeat this procedure on the opposite side. To do so, apply a new strip of PVC adhesive tape to the cut edge of the CarbonTEX PRO side. Overlap and attach the second end of the layer of CarbonTEX PRO, trim the excess material and press any protruding fibres in place.

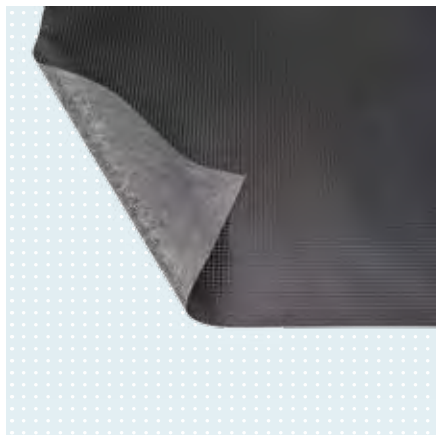


Use paper towels to clean the soaked 616F4 PVA bag on both sides and pull it over the model with the desired side (matte or gloss) facing outward. Tie off the PVA bag on the proximal end. Tie off temporarily in the distal region and create a vacuum.

Mix the desired quantity of 617H119 Orthocryl lamination resin 80:20 PRO, without adding colour paste, with 2% hardener and fill into the PVA bag. Then tie off above the resin filling, without any air inclusions.

Align the model as shown in Fig. 3. Undo the temporary tie in the distal area between the resin and socket, and extract rising air bubbles with the vacuum. Then laminate the socket, with an even penetration of resin running at a 90° angle to the socket axis.

After hardening, cut the socket and sand it down.



## Carbon synthetic leather

Reference number 621X9

- Cover for orthoses, prostheses, wheelchairs and closures
- As an underlay for insoles
- 50% polyurethane, 50% polyamide
- High abrasion resistance
- Resistant to tearing
- Colour-fast
- Light-fast
- Suitable for cutting
- Suitable for punching
- Easy to sand
- Clean cut edges without fraying
- Well suited for bonding
- Can be thermoformed at 90–120 °C
- Minimal shrinkage

### Technical data

Article number	Length	Width	Colour
621X9=1-7	1 m	1.46 m	Black
621X9=10-7	10 m	1.46 m	Black



### Practical recommendation 621X9

- Prepare a template using 616F1 PVC film.
- Transfer the shape to 621X9 carbon synthetic leather. In doing so, make sure the carbon pattern is consistently aligned to obtain a uniform overall appearance and to conceal joints.
- Use 636N9 contact adhesive for fixing. The surfaces to be glued must be dry and free of dust, oil and grease.
- For better draping characteristics, warm 621X9 carbon synthetic leather slightly with hot air.



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