ottobock.

Prosthetics 2017 / 2018

Upper Limb

Information for specialist dealers

Quality for life

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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. For complex enquiries, our product experts and specialists in fabrication are there to help you. Our highly qualified team of field service employees can assist with special technical solutions and their on-site implementation. We also offer comprehensive service and marketing concepts.

Visit www.ottobock.com to obtain up-to-date product information at any time.

How to reach us –
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export@ottobock.de

Explanation of symbols and hazardous substances

Explanation of symbols

	Information sheet, poster
	Information material
	Instructions for processing or use
	Products with these symbols are registered trademarks in their respective countries.
	Miniaturisation
	Enlargement
	Mixing ratio
	Two components: A-component, B-component
	Self-adhesive
	Adhesive on both sides
	Washable at 40 °C, gentle cycle
	Washable at 60 °C
	Knowledge and application

Explanations of hazardous substance symbols (R/S phrases)*

	Xi=Irritant
	Xn=Hazardous to health
	O=Oxidising
	F=Highly flammable
	F+=Extremely flammable
	N=Environmentally hazardous
	C=Corrosive
	T=Toxic

* The hazardous substance symbols (R/S phrases and P/H phrases) printed in the catalogue correspond to the labelling requirements for hazardous substances at the time of printing. They refer to the raw material. Changes reserved.

Explanation of symbols and hazardous substances

Explanations of hazardous substance symbols (P/H phrases)*

	Hazard classes	Hazard categories
	Inflammable gases	1
	Inflammable aerosols	1, 2
	Inflammable liquids	1, 2, 3
	Inflammable solids	1, 2
	Self-decomposing substances and mixtures	Types B, C, D, E, F
	Pyrophoric liquids	1
	Pyrophoric solids	1
	Substances and mixtures capable of self-heating	1, 2
	Substances and mixtures that release inflammable gases upon contact with water	1, 2, 3
	Organic peroxides	Types B, C, D, E, F
	Oxidising gases	1
	Oxidising liquids	1, 2, 3
	Oxidising solids	1, 2, 3
	Corrosive effect on metal	1
	Caustic	1A, 1B, 1C
	Severe eye damage	1
	Acute toxicity (oral, dermal, inhalative)	1, 2, 3
	Acute toxicity (oral, dermal, inhalative)	4
	Skin irritation	2
	Eye irritation	2
	Skin sensitisation	1
	Specific target organ toxicity (one-time exposure)	3
	Respiratory system irritation	
	Anaesthetic effects	
	Respiratory tract sensitisation	1
	Germ cell mutagenicity	1A, 1B, 2
	Carcinogenicity	1A, 1B, 2
	Reproductive toxicity	1A, 1B, 2
	Specific target organ toxicity (one-time exposure)	1, 2
	Specific target organ toxicity (repeated exposure)	1, 2
	Aspiration hazard	1
	Hazardous to water	
	– Acutely hazardous to water	1
	– Chronically hazardous to water	1, 2

* The hazardous substance symbols (R/S phrases and P/H phrases) printed in the catalogue correspond to the labelling requirements for hazardous substances at the time of printing. They refer to the raw material. Changes reserved.

MyoBock prostheses for children

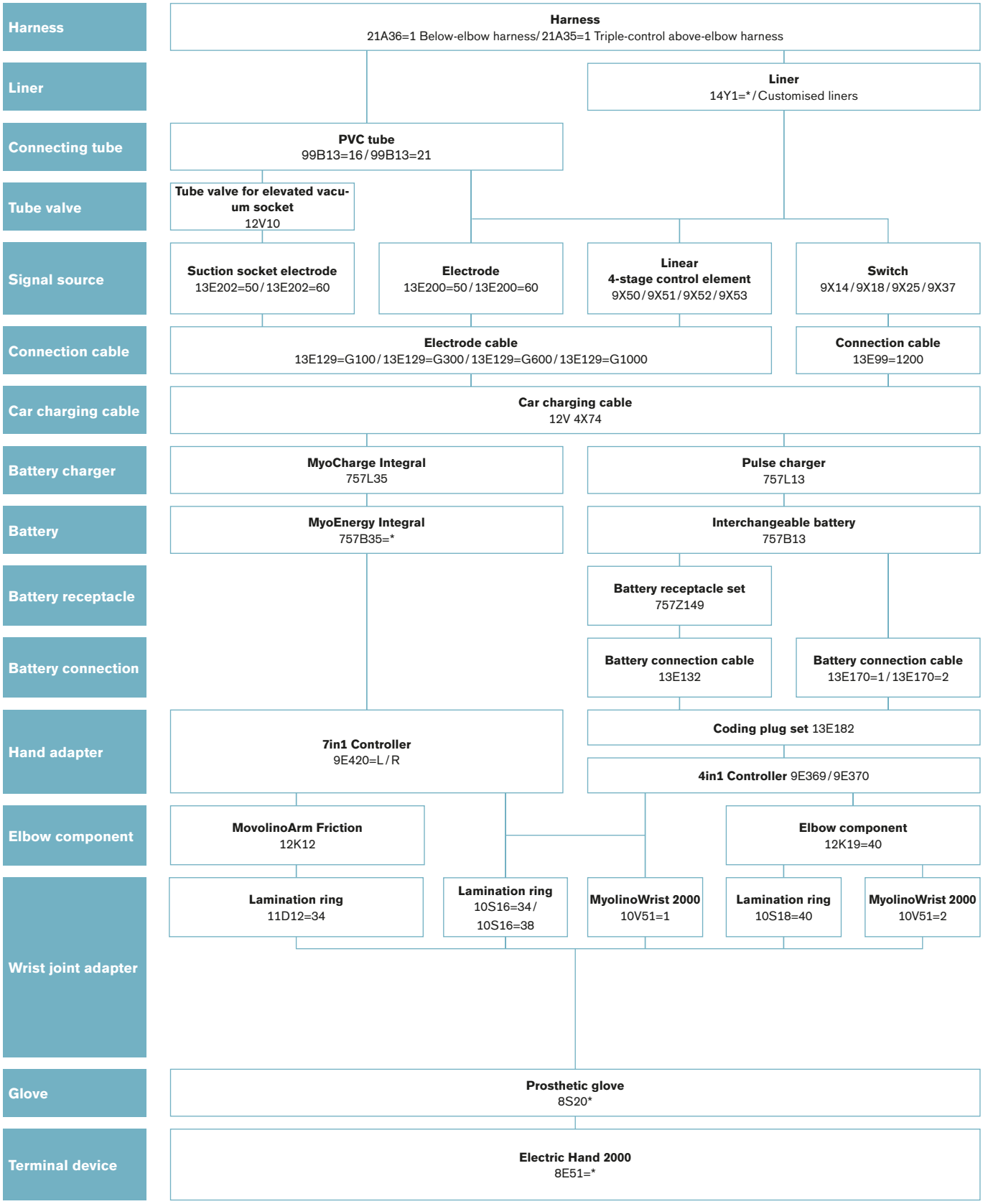
Exploring the world

Fittings for children have always represented a major medical technology challenge, because children have special requirements in terms of functionality, flexibility and mobility. This is why it is important to offer a system that meets the individual needs of various age groups while simultaneously preparing the children for a future fitting with the system for adults.
The innovative 7.4 volt system for children achieves these objectives. In combination with the Electric Hand 2000, the MyolinoWrist 2000 and the Myolino-Skin Natural gloves, it uses myoelectric components from the adult segment in order to establish the foundation for a flowing transition in the prosthetic fitting process. The 12K12 MovolinoArm Friction is the perfect complement to the Ottobock portfolio for upper arm prostheses in children aged 3 to 5 years.

On the following pages you will find

- Terminal device
- Prosthetic gloves and accessories
- Lamination ring and accessories
- 4in1 Controller and accessories
- Batteries and accessories
- 7in1 Controller and accessories
- Elbow components and accessories
- Electrodes and accessories
- Tools for the children's system

Overview of the MyoBock children's system



Terminal device

Electric Hand 2000

Article no. 8E51

The Electric Hand 2000 can be used for children's hand prostheses with 4.8 V and 7.4 V depending on the controller that is used, making it suitable for nearly all residual limb lengths.

Key features

- For MyoBock system 4.8/7.4 volt
- With finger filler (article no. 9E347=*)
- Passive hand rotation and central sliding contact
- Without prosthetic glove, controller and lamination ring
- Available in four sizes:
  - Size 5 (for children aged 1 ½ to 3 years)
  - Size 5 ½ (for children aged 3 to 6 years)
  - Size 6 (for children aged 5 to 10 years)
  - Size 6 ½ (for children aged 8 to 13 years)

Article no.	Side	Size	Lamination ring	Prosthetic glove
8E51=L5	Left (L)	5	10S16=34	8S20(N)=136X41L
8E51=L5 ½	Left (L)	5 ½	10S16=34	8S20(N)=147X45L
8E51=L6	Left (L)	6	10S16=38	8S20(N)=162X56L
8E51=L6 ½	Left (L)	6 ½	10S16=38	8S20(N)=177X64L
8E51=R5	Right (R)	5	10S16=34	8S20(N)=136X41R
8E51=R5 ½	Right (R)	5 ½	10S16=34	8S20(N)=147X45R
8E51=R6	Right (R)	6	10S16=38	8S20(N)=162X56R
8E51=R6 ½	Right (R)	6 ½	10S16=38	8S20(N)=177X64R

646D326
646D442

647H58

Prosthetic gloves

646D423 647G571

Special cleaner for prosthetic gloves is found on page 14.

MyolinoSkin Natural

Article no. 8S20N

In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin. Please add an N before the = in the article number.

Example

- 8S20=136x41XL4 (standard glove)
- 8S20N=136x41XL4 (MyolinoSkin Natural)

The PVC-based material ensures that Skin Natural is very robust compared to other materials, and it has a relatively long life. This provides safety when using the gloves. Due to a special modern surface treatment, the Skin Natural gloves are also easy to clean.

Article no.	Side	Size	Sleeve length	Sleeve end circumference
8S20N=136X41L	Left (L)	5	210 mm	200 mm
8S20N=147X45L	Left (L)	5 ½	215 mm	200 mm
8S20N=162X56L	Left (L)	6	220 mm	210 mm
8S20N=177X64L	Left (L)	6 ½	240 mm	220 mm
8S20N=136X41R	Right (R)	5	210 mm	200 mm
8S20N=147X45R	Right (R)	5 ½	215 mm	200 mm
8S20N=162X56R	Right (R)	6	220 mm	210 mm
8S20N=177X64R	Right (R)	6 ½	240 mm	220 mm

- The entire Skin Natural colour palette is produced with seven colours. The new 646M47 colour scale helps when selecting the right pattern. For available colours, please ask our Customer Service.
- Notice: The 8S20N=* gloves are available in colours 2, 4, 6, 8, 11, 14 and 16.

646D49 647G468

Prosthetic glove for children

Article no. 8S20

The prosthetic glove for children impresses with its natural appearance, durability and flexibility.

Article no.	Side	Size	Sleeve length	Sleeve end circumference
8S20=136X41L*	Left (L)	5	210 mm	200 mm
8S20=147X45L*	Left (L)	5 ½	215 mm	200 mm
8S20=162X56L*	Left (L)	6	220 mm	210 mm
8S20=177X64L*	Left (L)	6 ½	240 mm	220 mm
8S20=136X41R*	Right (R)	5	210 mm	200 mm
8S20=147X45R*	Right (R)	5 ½	215 mm	200 mm
8S20=162X56R*	Right (R)	6	220 mm	210 mm
8S20=177X64R*	Right (R)	6 ½	240 mm	220 mm

* Available in 18 different shades.

Prosthetic gloves

Prosthetic glove for children

Article no. 8S20

Just like their parents, our youngest users value the high quality of their prosthetic gloves. That is why our standard prosthetic gloves are very robust and flexible. In addition, the coloured gloves for the Electric Hand 2000 are now available for an eye-catching appearance in everyday life: Nine new colours are now offered for selection.

Benefits

- Suitable for girls and boys
- Mechanical strength makes them durable, robust and tear-resistant with minimal abrasion
- Used in combination with the Electric Hand 2000
- Clean with special cleaner (article no. 640F12) and pump sprayer (article no. 640F13)

Article no.	Side	Size	Sleeve length	Sleeve end circumference
8S20=136X41L*	Left (L)	5	210 mm	200 mm
8S20=147X45L*	Left (L)	5 ½	215 mm	200 mm
8S20=162X56L*	Left (L)	6	220 mm	210 mm
8S20=177X64L*	Left (L)	6 ½	240 mm	220 mm
8S20=136X41R*	Right (R)	5	210 mm	200 mm
8S20=147X45R*	Right (R)	5 ½	215 mm	200 mm
8S20=162X56R*	Right (R)	6	220 mm	210 mm
8S20=177X64R*	Right (R)	6 ½	240 mm	220 mm

* Available in 18 different shades and nine new colours: black 20 (RAL 9005), red 25 (RAL 3028), orange 30 (RAL 2004), yellow 35 (RAL 1023), green 40 (RAL 6018), blue 45 (RAL 5015), dark blue 48 (RAL 5002), purple 50 (RAL 4001) and pink 55 (RAL 4003).
When ordering, please add the colour code according to the 646M79 colour swatches to the end of the article number, e.g. 8S20=136X41L30.

646D49 647G468

Accessories

Special cleaner

Article no. 640F12

In case of heavy soiling, the special cleaner for prosthetic gloves should be applied immediately (net contents: 460 g).

Pump sprayer

Article no. 640F13

The user should always keep a pump sprayer filled with special cleaner for Ottobock prosthetic gloves handy in order to be able to use the cleaner immediately in case of soiling (net contents: 90 g).

This container is empty on delivery!

Donning spray

Article no. 640F18

The donning spray for silicone liners and prosthetic gloves (silicone or PVC) is used among other things for the donning and removal of the liner or prosthetic glove.

Article no.	Contents
640F18	90 ml
640F18=900	900 ml (refill)

Lamination ring and accessories

Lamination ring, complete

Article no. 10S16

The lamination ring (article no. 10S16=*) connects the Electric Hand 2000 (article no. 8E51) to the individually fabricated forearm socket. Relatively long below-elbow residual limbs can be fitted thanks to the low structural height since the lamination ring is laminated directly into the outer socket.
The desired friction can be optimally adapted to the needs of the prosthesis wearer with the O-rings included in the scope of delivery. This permits a complete rotation of the Electric Hand 2000 (article no. 8E51).

O-rings (article no. 627F3)

- 1 pc. 627F3=26X1.0 (internal diameter: 26 mm, thickness: 1.0 mm)
- 1 pc. 627F3=19X1.5 (internal diameter: 19 mm, thickness: 1.5 mm)
- 1 pc. 627F3=16X1.5 (internal diameter: 16 mm, thickness: 1.5 mm)
- 1 pc. 627F3=11X1.5 (internal diameter: 11 mm, thickness: 1.5 mm)

Article no.	Diameter	Size
10S16=34	34 mm	5 and 5 ½
10S16=38	38 mm	6 and 6 ½

MyolinoWrist 2000

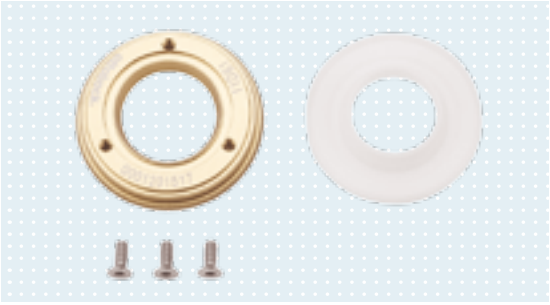
Article no. 10V51

647G460

The MyolinoWrist 2000 (article no. 10V51=*) is a mechanical ball wrist joint with adjustable friction. When combined with the Electric Hand 2000 (article no. 8E51), the hand can be positioned in any direction, helping to significantly eliminate compensating movements of the arm. The additional degrees of freedom make motion sequences appear more natural. At the same time, the wrist joint promotes a physiologically correct posture.

Article no.	Wrist connection diameter	Weight	Overall length
10V51=1	40 mm	47 g	32 mm
10V51=2	40 mm	50 g	40 mm

Lamination ring and accessories



Lamination ring set

Article no. 11D61

The lamination ring set is compatible with the MyolinoWrist (article no. 10V51=1).

Set consisting of

- 1x lamination ring (article no. 11D3)
- 1x lamination dummy (article no. 11D9)
- 3x countersunk head screw (article no. 501S101=M3X8-KL-1)

Lamination ring set

Article no. 11D21

The lamination ring set is compatible with the MyolinoWrist (article no. 10V51=2).

Set consisting of

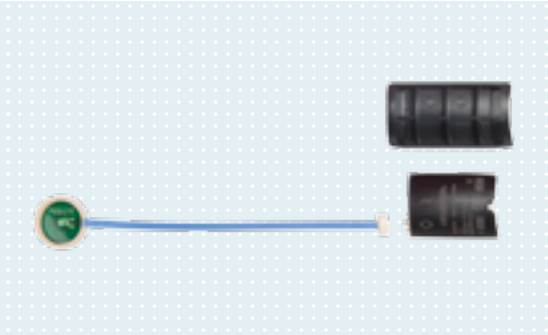
- 1x lamination ring (article no. 11D2)
- 1x lamination dummy (article no. 11D9)
- 3x countersunk head screw (article no. 501S101=M3X8-KL-1)

The right tools!
Adjustment tools are found on pages 30–31 in this catalogue!

4in1 Controller and accessories

4in1 Controller LS

Article no. 9E369 or 9E370



647H209

The 4in1 Controller LS extends fitting possibilities in the area of long below-elbow residual limbs and wrist disarticulations. Four different control versions can be selected via various coloured coding plugs. The 4in1 Controller LS is required for a fitting with an Electric Hand 2000 (article no. 8E51).

Consisting of

- Contact plate (article no. 9E371)
- Casting template (article no. 9E372)
- Controller for article no. 9E369 (article no. 9E373)
- Controller for article no. 9E370 (article no. 9E374)

Article no.	Size
9E369	5
9E370	5 ½, 6 and 6 ½

The contact plate (article no. 9E371) is included in the scope of delivery!

Coding plug set

Article no. 13E184

The 4in1 Controller LS differentiates between four functions and between right and left arm prostheses using coloured coding plugs.

Article no.	Side	Colour	9E369	9E370
13E184=1	Left (L)	White	1 electrode, digital (EVO)	2 electrodes, digital
13E184=3	Left (L)	Green	2 electrodes, DMC	2 electrodes, DMC
13E184=5	Left (L)	Yellow	2 electrodes, DMC LowInput	2 electrodes, DMC LowInput
13E184=7	Left (L)	Orange	1 electrode, DMC Low (EVO)	1 electrode, EVO
13E184=2	Right (R)	Red	1 electrode, digital (EVO)	2 electrodes, digital
13E184=4	Right (R)	Blue	2 electrodes, DMC	2 electrodes, DMC
13E184=6	Right (R)	Purple	2 electrodes, DMC LowInput	2 electrodes, DMC LowInput
13E184=8	Right (R)	Black	1 electrode, DMC Low (EVO)	1 electrode, EVO

Batteries and accessories

647G47

Replaceable battery

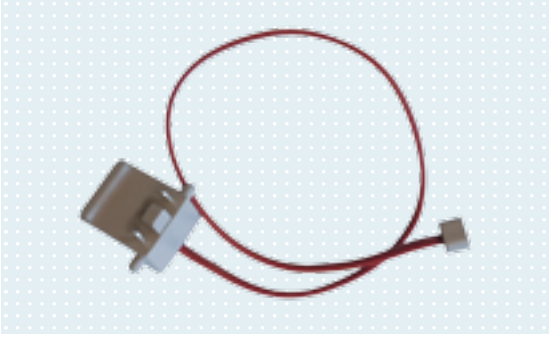
Article no. 757B13

Suitable for integration into all socket shapes. With on/off switch and replaceable integrated fuse (article no. 757Z170).

Technical data

Capacity	150 mA
Average discharge level	4.8 V
Final discharge level	4.4 V
Dimensions (L x W x H)	69 x 26.5 x 14.5 mm
Weight	40 g

- Only use the pulse charger (article no. 757L13) to charge the replaceable battery (article no. 757B13).
- Can only be used for MyoBock 4.8 V children's system.



Battery connection cable

Article no. 13E132

The battery connection cable (length: 200 mm) is used to connect the replaceable battery (article no. 757B13) to the 4in1 Controller LS (article no. 9E369 or 9E370) or the switching unit (article no. 9E349 or 9E350).

Batteries and accessories

Battery receptacle set

Article no. 757Z149

Suitable for replaceable battery (article no. 757B13).

Consisting of

- Battery receptacle (article no. 757Z150)
- Locking insert with O-ring (627F1=3,1X1,6; article no. 757Z151)
- Casting template (article no. 757Z152)
- Spacer insert (article no. 757Z153)

647H6

Pulse charger

Article no. 757L13

For simultaneous charging of one or two replaceable batteries (article no. 757B13). Housing made of impact and break-resistant plastic material, including power supply (article no. 757L16-2) with exchangeable EU and US plugs. The design conforms to recommended standards.

Technical data

Operating temperature	0 to +40 °C
Dimensions (L x W x H)	130 x 70 x 45 mm
Supply voltage range	100–240 automatic adjustment V/AC
Mains frequency	40 – 70 Hz
Charging current for 757L13	Pulsed medium direct charging current, approx. 50 mA, reduction to trickle charging
Charging time (for full charge)	approx. 5 h
Weight	220 g

647G260

Car charging cable, 12 volt

Article no. 4X74

The cigarette lighter socket can be used to charge a MyoEnergy Integral (article no. 757B35=*) or two EnergyPacks (article no. 757B20/757B21), X-ChangePacks (article no. 757B15) or replaceable batteries (article no. 757B13). Suitable for MyoBock battery chargers (article no. 757L35, 757L20, 757L14 and 757L13).

7in1 Controller and accessories

646D442 647G595

7in1 Controller

Article no. 9E420

The 7in1 Controller (article no. 9E420) is a control system with 7.4 volt for the Electric Hand 2000 that processes muscle signals and sends them to the prosthetic hand. The 7in1 Controller provides seven programmes, some of which have been adopted from the adult system. Children benefit from the diverse possibilities: Individual adjustment of the prosthetic hand and simultaneous preparation for the adult system.

Choice of seven programme versions

- DMC plus: Control with 2 electrodes
- DMC LowInput: Control with 2 electrodes
- AutoControl LowInput: Control with 2 electrodes
- DigitalControl: Control with 2 electrodes
- VarioControl: Control with 1 electrode
- DoubleChannel: Control with 1 electrode
- EVO Digital: Control with 1 electrode

Power supply

Power is supplied to the 7in1 Controller and the prosthetic components by the MyoEnergy Integral battery system (article no. 757B35=*).

Article no.	Length
9E420=L	Left (L)
9E420=R	Right (R)

The contact plate (article no. 9E414) is included in the scope of delivery!

MyolinoLink

Article no. 60X6

The MyolinoLink (article no. 60X6) is used for the wireless transfer of data between the 7in1 Controller and a PC with Bluetooth functionality. Patient-specific settings can therefore be changed without a cable connection. The MyolinoLink is connected to the charging receptacle of the MyoEnergy Integral prior to use. Integrated magnets secure the MyolinoLink to the charging receptacle. The range of the radio connection is about 5 metres.

7in1 Controller and accessories

MyolinoSoft

Article no. 560X3

In order to offer patient-specific controller settings, adjustment software is also being used for the first time in a hand system for children. Rather than using specified settings, it works with various parameters, such as the patient side, control programme, switching threshold and gripping speed, which can be individually adjusted. This is especially advantageous for children due to their high mobility requirements.
The MyolinoSoft software (article no. 560X3) is designed for configuring the settings of the 7in1 Controller (article no. 9E420) and the Electric Hand 2000 connected to it. Seven programme versions are available.

647G578

BionicLink

Article no. 60X5

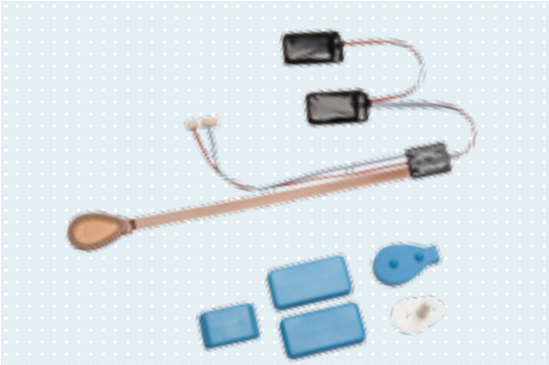
The BionicLink PC (article no. 60X5) supports wireless data communication between Ottobock products with a Bluetooth interface (e.g. DynamicArm) and a PC with USB port or USB hub.

The BionicLink is equipped with two LEDs

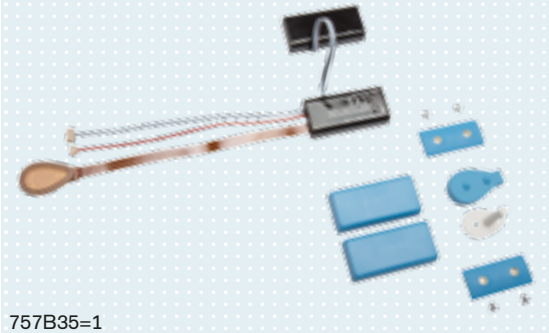
- The green LED indicates that the device is ready for use
- The blue LED indicates that a proper connection has been established between the product and the PC

A proper connection between the Ottobock product and a PC can only be established using corresponding Ottobock software products (e.g. ElbowSoft).

7in1 Controller and accessories



757B35=0



757B35=1

MyoEnergy Integral

Article no. 757B35=*

The MyoEnergy Integral (article no. 757B35=*) is an integrated power supply system made up of several components. The charging receptacle has contacts for the battery, indicates the current charge level and allows the prosthesis to be switched on and off and opened in an emergency. The communication cable with a 3-pin receptacle is used for the exchange of data.
The supply cable establishes the connection between the battery and the respective prosthetic component. The battery consists of two cells with different capacities. Suitable for the MyoBock system.

Consisting of

- Lamination dummy – battery
- Lamination dummy – charging receptacle
- Drilling template for charging receptacle

Technical data	Article no. 757B35=0	Article no. 757B35=1
Capacity	300 mAh	600 mAh
Approx. output voltage	7.4 V	7.4 V
Approx. charging time	2.5 h	2.5 h
Technology	Lithium polymer	Lithium polymer
Dimensions approx.	35 x 20 x 20 mm	2x 52 x 25 x 10 mm

- You can order the dummy set for article no. 757B35=1 under article no. 757Z276=1.

647G534

MyoCharge Integral

Article no. 757L35

The MyoEnergy Integral integrated into the socket is charged using the MyoCharge Integral (article no. 757L35). This is done by simply connecting the charging plug to the charging receptacle on the outside of the socket. Thanks to an integrated magnet, the charging plug can be easily attached to the charging receptacle. The special contour of the charging receptacle and charging plug assures the quick, reliable positioning of the two components to each other. LEDs indicate the readiness of the battery charger and the current battery charge level.

Technical data	
Operating temperature	0 to +60 °C
Storage temperature	-20 to +60 °C
Supply voltage	100–240 V
Mains frequency	50–60 Hz

- The MyoCharge Integral can be used for all versions of the MyoEnergy Integral (article no. 757B35=0, 757B35=1 and 757B35=3).
- The power supply (article no. 757L16-2) is included in the scope of delivery!

Elbow components

Elbow components for children

Article no. 12K19=40

647G469

Elbow component with manual elbow lock (10 locking positions in 8° increments) and an upper arm rotation joint (humeral rotation feature) with lamination ring. The elbow ball is made of beige plastic (corresponds to beige 2). The wrist connection has a diameter of 40 mm.

Article no.	Upper arm connection diameter	Size	Colour	Length	Circumference
12K19=40	54 mm	6 ¾	Beige	approx. 250 mm	210 mm

MovolinoArm Friction

Article no. 12K12

647G570

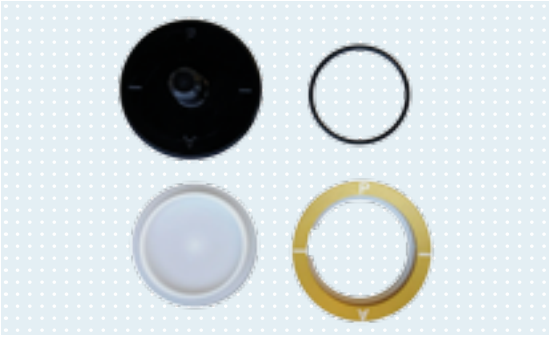
The MovolinoArm Friction is available in one size. It is the perfect complement to the current Ottobock product portfolio, since it allows prostheses on the right and left side for children aged 3 to 5 years. The elbow is compatible with passive, body-powered and myoelectric arm prostheses and weighs a mere 182 g.
The elbow has one friction setting for humeral rotation and one for flexion or extension of the forearm. Parents can easily set this friction setting. Another advantage is that the elbow is compatible with the components of the 7.4 volt system for children.
The MovolinoArm Friction features an impressive design that has a very realistic natural appearance.
The hand adapter of the MovolinoArm Friction is naturally compatible with the Electric Hand 2000. The wood adapter (article no. 10A40) is available for passive prostheses. The wrist joint, article no. 10V18=34 or 10V36=34, is compatible with body-powered prostheses.

Article no.	Upper arm connection diameter	Wrist connection diameter
12K12	43.5 mm	34 mm

- Please note that the elbow (article no. 12K12) can only be used with the following batteries: article no. 757B35=0 and 757B35=1!
- Please note that one to two of the electrode cables, article no. 13E129=G100, are needed in addition!

Tip
Both joints can also be used in combination with the Electric Hand 2000 (article no. 8E51=*).

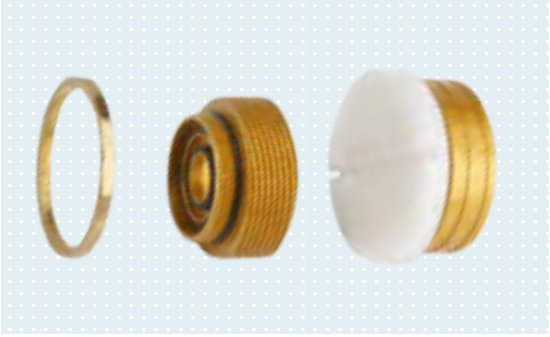
Accessories



Lamination ring set

Article no. 13G21

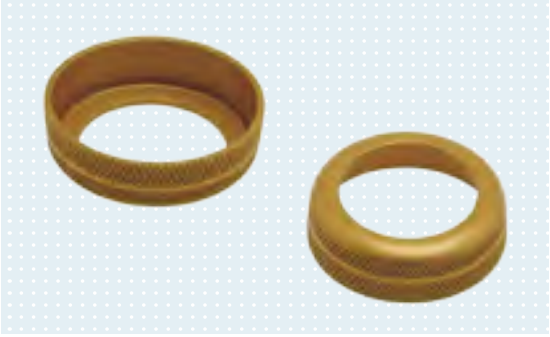
The set consists of a lamination ring with lamination dummies and an O-ring.
Notice: Only in combination with the 12K12 elbow.



Lamination ring for children's forearm

Article no. 10S18=40

The lamination ring for children's forearms makes it possible to combine an Electric Hand 2000 (article no. 8E51) with an elbow component for children (art. no 12K19=40).
To do so, the lamination ring with a diameter of 33 mm is glued directly into the elbow component using Orthocryl sealing resin compact adhesive (article no. 636K18=1).



Lamination ring

Article no. 13G8=54

Notice: Only in combination with the 12K19=40 elbow.

Special key

Article no. 709Z9

The special key (article no. 709Z9) is used to tighten the counter nut. The counter nut may become damaged when tightening in a vice or, for example, with pliers.

Accessories

Perlon cable

Article no. 21A18

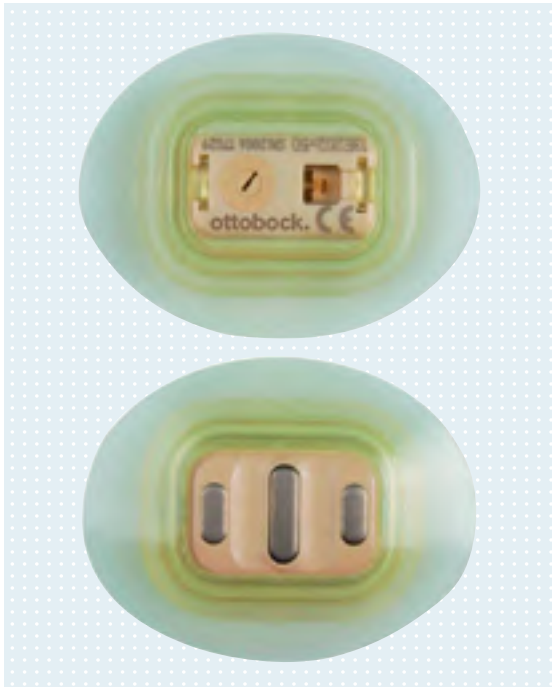
Article no.	Diameter	Length	Order by
21A18=2X1	2 mm	1 m	linear metres
21A18=2X5	2 mm	5 m	linear metres
21A18=2X10	2 mm	10 m	linear metres
21A18=2X25	2 mm	25 m	linear metres

Wrist joint lamination ring

Article no. 11D12=34

The wrist joint lamination ring is used for the connection with the Children's Hand 2000. It consists of a copper friction ring, O-rings and a protective cover.

Electrodes



647G334

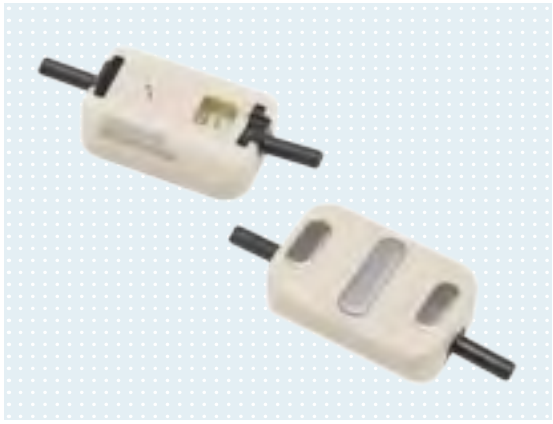
Suction socket electrode

Article no. 13E202

This generation of electrodes is based on the familiar 13E200 electrode. Embedded into a mounting suspension of elastic material, this electrode creates an airtight seal between the inner socket and outer socket.
If used correctly, the suction socket electrode (article no. 13E202) also prevents sweat from penetrating between the outer and inner socket, therefore effectively preventing damage to the electrical and mechanical components caused by corrosion.
The suction socket electrode can not only be used for standard sockets, but is also particularly suitable for application in elevated vacuum sockets. Combining the suction socket electrode with a tube valve (article no. 12V10) for an elevated vacuum socket creates a vacuum effect in the socket, optimising the hold of the residual limb in the socket. As with the 13E200 electrode, state-of-the-art shielding and filtering technologies largely protect the suction socket electrode (article no. 13E202) against high frequency interference caused, for example, by mobile phones, walkie-talkies, computers or anti-theft systems in shopping centres so that the proper control of the myoelectrically controlled prosthesis is not affected.
The electrode contacts are made from pure titanium and are therefore suitable for people with allergies as well. The frequency filter's full protection effect will only be provided if the mains frequency and filter frequency are identical.

Article no.	HZ	Frequency bandwidth	Room temperature	Operating voltage U
13E202=50	50	90 – 450 Hz	-15 to +60 °C	4.8 – 7.2 V
13E202=60	60	90 – 450 Hz	-15 to +60 °C	4.8 – 7.2 V

- Use silicone grease (article no. 633F11) to seal the plug connection. Remove any excessive grease after connecting the electrode cable.
- Accessories for vacuum forming inner sockets, see page 244.
- Tube valve (article no. 12V10), see page 96.



Electrode

Article no. 13E200

These MyoBock electrodes are particularly sensitive in the range of low muscle signals. The change in amplification now takes place logarithmically, which enables enhanced differentiation of the signal level. Thanks to modern frequency shielding and filtering technologies, they are less sensitive to low and high frequency interferences that are emitted, for example, by mobile phones or shopping centre security systems. The electrode contacts are made from pure titanium and are therefore suitable for people with allergies as well. The electrode accessories (article no. 13E201) are included in the scope of delivery. The frequency filter's full protection effect will only be provided if the mains frequency and filter frequency are identical. The electrode cable connection with IDC termination weighs 4.5 g (27 x 18 x 9.5 mm).

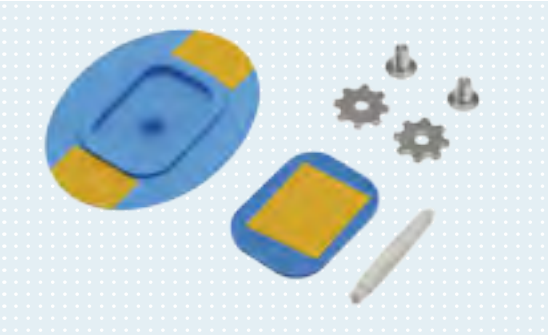
Article no.	HZ	Frequency bandwidth	Room temperature	Operating voltage U
13E200=50	50	90 – 450 Hz	-15 to +60 °C	4.8 – 7.2 V
13E200=60	60	90 – 450 Hz	-15 to +60 °C	4.8 – 7.2 V

- Use silicone grease (article no. 633F11) to seal the plug connection. Remove any excessive grease after connecting the electrode cable.
- Accessories for vacuum forming inner sockets, see page 244.

Accessories

Electrode accessory set

Article no. 13E206

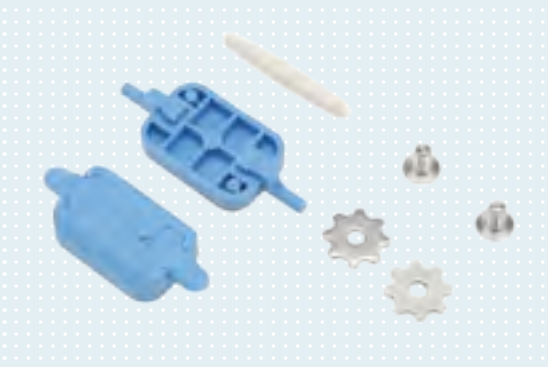


Suitable for suction socket electrodes (article no. 13E202).

Consisting of
- Casting template for inner socket (article no. 13E203)
- Socket screw with Allen head (article no. 503F3)
- Sensitivity adjustment tool (article no. 13E80)

Electrode accessories

Article no. 13E153



For laminated inner sockets with 13E200 electrode. Use an Allen wrench (article no. 709S10=2) for socket screws (article no. 503F3).

Consisting of
- Template for inner socket (article no. 13E191)
- Lamination template for outer socket (article no. 13E192)
- Lamination disc, serrated (article no. 507S15)
- Socket screw with Allen head (article no. 503F3)
- Sensitivity adjustment tool (article no. 13E80)

Electrode accessories

Article no. 13E201

For vacuum-formed inner sockets with electrode (article no. 13E200). Only available as a set. Electrode mounting brackets and setting nuts (article no. 29C5=M4X9) can also be ordered individually.

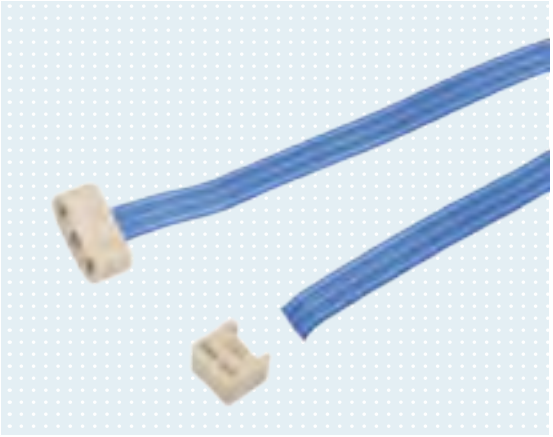
Consisting of
- One template for the inner and outer socket each
- Lamination dummy for electrode mounting bracket
- Electrode mounting bracket, beige (article no. 13E172)
- Setting nut (article no. 29C5=M4X9)

Electrode mounting bracket set

Article no. 13E135

The electrode mounting bracket set is used for positioning and assembling the MyoBock electrodes on the interim plaster socket or the interim socket made of ThermoLyn (article no. 616T52 or 616T53). It is suitable for 13E200 electrodes.

Accessories



Electrode cable with straight plug and plug connector

Article no. 13E129=G*

Electrode cable to connect the electrode (article no. 13E200 / 13E202), control elements (article no. 9X52, 9X53 and 9X54) and elbow (article no. 12K12).

Article no.	Length
13E129=G100	100 mm
13E129=G300	300 mm
13E129=G600	600 mm
13E129=G1000	1,000 mm

The plug connector (article no. 13E121) is included in the scope of delivery!

Finger cover

Article no. 9E342

Consisting of thumb, index finger and middle finger.

Article no.	Size
9E342=5	5
9E342=5 ½	5 ½
9E342=6	6
9E342=6 ½	6 ½

Finger filler

Article no. 9E347

Used to fill the little and ring fingers in the prosthetic glove (article no. 8S20).

Article no.	Side	Size
9E347=L5	Left (L)	5
9E347=L5 ½	Left (L)	5 ½
9E347=L6	Left (L)	6
9E347=L6 ½	Left (L)	6 ½
9E347=R5	Right (R)	5
9E347=R5 ½	Right (R)	5 ½
9E347=R6	Right (R)	6
9E347=R6 ½	Right (R)	6 ½

Accessories

EasyFit Arm donning sheath

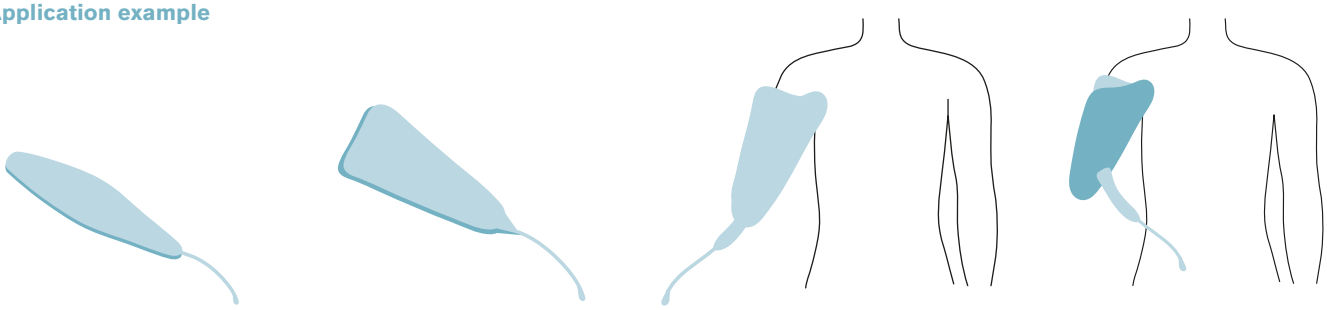
Article no. OC1560

The EasyFit Arm donning sheath with valve opening (colour: green) saves strength and time when putting on an arm prosthesis. It feels comfortable when donning. It is made of high-quality material and is therefore very durable. It is also easy to clean in the washing machine. Also available in children's sizes.

Article no.	Size	Proximal residual limb circumference	Distal residual limb circumference	Sock length
OC1560=KIDS	KIDS	290 mm	150 mm	210 mm
OC1560=TR	TR	420 mm	220 mm	250 mm
OC1560=TH	TH	470 mm	280 mm	340 mm

646D536=M_DE

Application example



1. The EasyFit Arm donning sheath must be spread out fully before use.
2. Pull half (of the length) of the EasyFit Arm donning sheath over itself up to the lower seam. The loop must face out.
3. Pull the EasyFit Arm donning sheath like a sock over the residual arm, avoiding any wrinkles. Guide the socket over the residual limb so that the loop of the EasyFit Arm donning sheath can be pulled through the socket valve opening after applying the socket.
4. Finally, use the loop to slowly pull the EasyFit Arm donning sheath out of the prosthetic socket through the valve opening. If the residual limb is not properly positioned in the prosthetic socket, repeat the process.

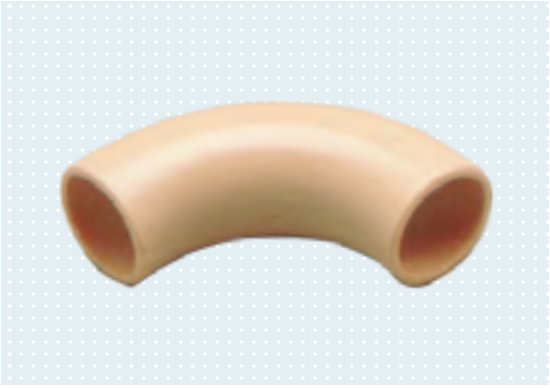
Derma Protection ArmComfort

Article no. 453A1

Derma Protection ArmComfort makes the transition from the forearm socket to the upper arm more visually appealing and provides additional support for the prosthesis. The special polymer gel coating, high elasticity and anatomical fit also improve wearer comfort.

Article no.	Target group
453A1	Adults
453A1=1	Children

Tools for the children's system

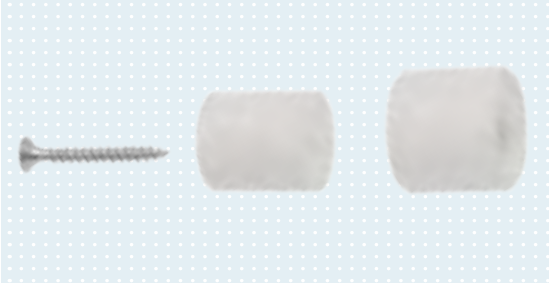


PVC connection tube

Article no. 99B13

The PVC connection tube serves as a connection channel between the inner and outer sockets.

Article no.	Colour	Diameter
99B13=16	Beige	16 mm
99B13=16-7	Black	16 mm
99B13=21	Beige	21 mm
99B13=21-7	Black	21 mm



Tube dummies

Article no. 99B83

The tube dummies are used for fabricating vacuum-formed inner sockets.

Article no.	Diameter
99B83=16	16 mm
99B83=21	21 mm

Alignment rod

Article no. 711M20

In combination with the mounting adapter (article no. 711M50), the alignment rod (hexagon) is suitable for installation and removal of the 4in1 Controller LS (article no. 9E369 and 9E370) as well as the 7in1 Controller (article no. 9E420) or for inserting and ejecting the switching units (article no. 9E349 and 9E350).

Mounting adapter

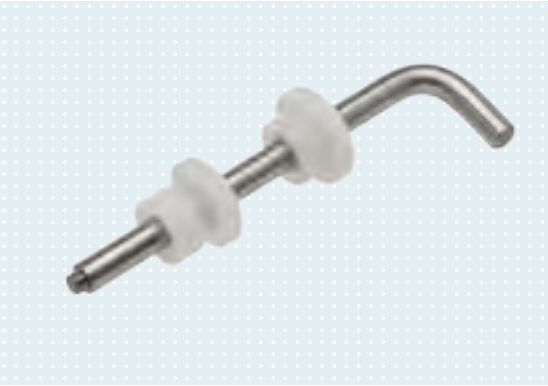
Article no. 711M50

For installing the 4in1 Controller LS (article no. 9E369 and 9E370) as well as the 7in1 Controller (article no. 9E420=*) in combination with the alignment rod (article no. 711M20).

Tools for the children's system

Alignment tool for children's component

Article no. 743A19



Suitable for lamination rings (article no. 10S16).

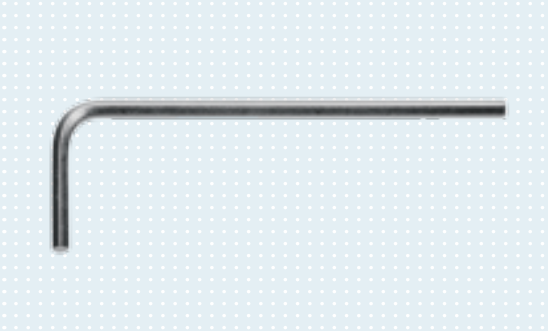
Consisting of:

- Alignment rod (article no. 743Y167)
- Lamination dummy for size 5 and 5 ½ (article no. 743Y42=34)
- Lamination dummy for size 6 and 6 ½ (article no. 743Y42=38)

Article no.	Thread	Diameter	Length
743A19	M8	12 mm	169 mm

Allen wrench

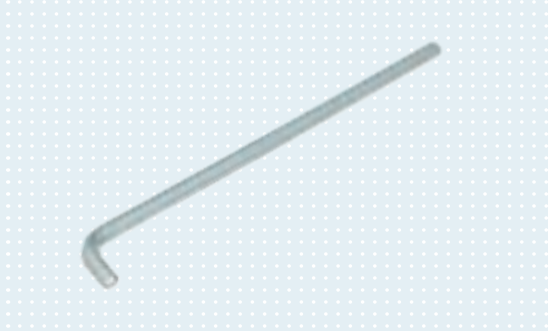
Article no. 709S10=2



For socket screws (article no. 503F3) that connect the inner and outer socket.

Allen wrench

Article no. 709S42



Offset Allen key for adjusting the friction of the MyolinoWrist 2000 (article no. 10V51).

MyoBock prosthesis solution

Best quality for an optimum fitting

As far back as the 1960s, Ottobock set international standards with the development of the system electric hand and has since placed great emphasis on quality in the further development of myoelectric hand and arm prostheses – for optimal, individual medical devices. A sensor integrated in the thumb of the SensorHand Speed prevents grasped objects from slipping out of the hand. This prosthetic hand also sets new standards in terms of gripping force and gripping speed together with the MyoHand VariPlus Speed. The DynamicArm, an electronically controlled, active elbow joint with an innovative drive system and continuous vario-gear, results in especially normal physiological movement. A highly natural appearance can be achieved in combination with the hand-painted Skin Natural prosthetic gloves.

On the following pages you will find

bebionic

bebionic hand

The bebionic hand is a myoelectrically controlled prosthetic hand, offering the user five moveable fingers which are powered individually. Each finger and the thumb is driven by its own motor, allowing this hand to execute various grip types. The latest drive technology allows the integrated microprocessor to continuously control the finger position. This makes it possible to reproduce all gripping patterns exactly. The hand also offers a special feature, the Auto-Grip function. The bebionic is available in sizes small, medium and large. The small hand is ideal for women and adolescents.

bebionic hand

Each finger of the bebionic hand moves entirely naturally. Eight different grip types can be controlled directly. The thumb of the bebionic hand can be positioned in two different basic positions. Like other myoelectric hand prostheses, it is easy to control. The appropriate glove is available in 19 different shades and in black.

Technical data	Small	Medium	Large
Maximum opening width – tripod grip	90 mm	105 mm	105 mm
Gripping force			
Power grip	140 N	140 N	140 N
Tripod grip	36.6 N 26.5	36.6 N	36.6 N
Key grip	N	26.5 N	26.5 N
Overall width, back of the hand	70 mm	83 mm	91 mm
Overall length (middle finger to end of palm)	160 mm	175 mm	180 mm
Hand circumference (without glove)	180 mm	210 mm	230 mm
Weight			
with quick-disconnect wrist unit	390 g	591 g	598 g
With multi-flex wrist	Not specified	691 g	698 g
Continuous opening/closing of the hand			
Tripod grip	0.5 sec.	0.5 sec.	0.5 sec.
Power grip	1.0 sec.	1.0 sec.	1.0 sec.
Key grip	1.0 sec.	1.0 sec.	1.0 sec.

EQD wrist (quick-disconnect wrist unit)

Article no. BBHQD

The hand can be taken off with a rotating movement. The quick-disconnect wrist unit makes it possible for the user to quickly switch to other terminal devices.

Example

- BBHSMLQD-W (bebionic hand, small with quick-disconnect wrist unit, left, white)
- BBHSMLQD-B (bebionic hand, small with quick-disconnect wrist unit, left, black)

Article no.	Side	Size	Colour
BBHSMLQD	Left (L)	Small	White, black
BBHMDLQD-U	Left (L)	Medium	Black
BBHLGLQD-U	Left (L)	Large	Black
BBHSMRQD	Right (R)	Small	White, black
BBHMDRQD-U	Right (R)	Medium	Black
BBHLGRQD-U	Right (R)	Large	Black

Short wrist

Article no. BBHSW

The short connection version for users with a long residual limb. The lamination ring is included in the scope of delivery. The hand can be rotated by the user with constant resistance. This resistance is adaptable.

Example

- BBHSMLSW-W (bebionic hand, small for short wrists with quick-disconnect wrist unit, left, white)
- BBHSMLSW-B (bebionic hand, small for short wrists with quick-disconnect wrist unit, left, black)

Article no.	Side	Size	Colour
BBHSMLSW	Left (L)	Small	White, black
BBHMDLSW	Left (L)	Medium	Black
BBHLGLSW	Left (L)	Large	Black
BBHSMRSW	Right (R)	Small	White, black
BBHMDRSW	Right (R)	Medium	Black
BBHLGRSW	Right (R)	Large	Black

Multi-flex wrist

Article no. BBHQD-MF

Permits passive movement of the wrist joint in all directions. The wrist joint can be locked in 30° flexion, 30° extension or the neutral position. Lateral movement is still possible even in the locked state. The multi-flex wrist can only be combined with the medium and large bebionic hand.

Example

- BBHMDLQD-MF (bebionic hand, medium with multi-flex wrist, left, black)

Article no.	Side	Size	Colour
BBHMDLQD-MF	Left (L)	Medium	Black
BBHLGLQD-MF	Left (L)	Large	Black
BBHMDRQD-MF	Right (R)	Medium	Black
BBHLGRQD-MF	Right (R)	Large	Black

Flex-wrist (three-stage joint)

Article no. BBHQD-F

The flex-wrist allows the user to flex and extend the hand. The hand can be locked at an angle of 30° extension, 30° flexion and in the neutral position.

Example

- BBHSMLQD-W-F (bebionic hand, small with flex-wrist, left, white)
- BBHSMLQD-B-F (bebionic hand, small with flex-wrist, left, black)

Article no.	Side	Size	Colour
BBHSMLQD-F	Left (L)	Small	White, black
BBHMDLQD-F	Left (L)	Medium	Black
BBHLGLQD-F	Left (L)	Large	Black
BBHSMRQD-F	Right (R)	Small	White, black
BBHMDRQD-F	Right (R)	Medium	Black
BBHLGRQD-F	Right (R)	Large	Black

Silicone glove

Article no. BBG*

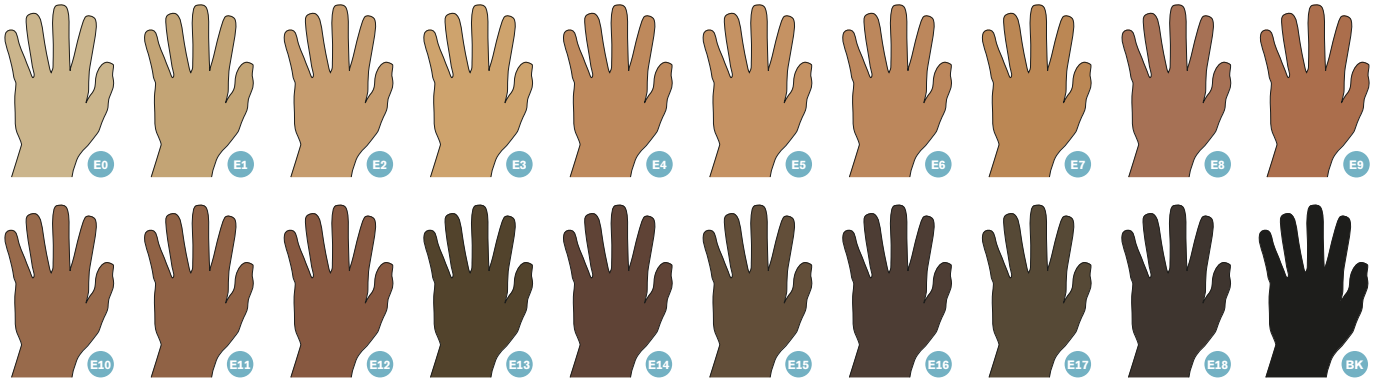
The glove for the bebionic hand is made of several layers of silicone with integrated fibre reinforcement. Unique TrueFinish™ micro-pigmentation combined with painted details on the palms, knuckles and nails creates a natural appearance. Easy handling when donning and doffing, easy to clean. 19 different skin colours (E0–E18) are available. The colour black is offered in addition.

Example

- BBGSML/E2 (silicone glove, small, left, colour E2)

Article no.	Side	Size	Colour
BBGSML/*	Left (L)	Small	E0–E18
BBGMDL/*	Left (L)	Medium	E0–E18
BBGLGL/*	Left (L)	Large	E0–E18
BBGSMR/*	Right (R)	Small	E0–E18
BBGMDR/*	Right (R)	Medium	E0–E18
BBGLGR/*	Right (R)	Large	E0–E18

When ordering, please add the colour code according to the E24655 colour swatches to the end of the article number.



Work glove, black

Article no. BBGT*

Article no.	Side	Size	Colour
BBGTSML/BK	Left (L)	Small	Black
BBGTMDL/BK	Left (L)	Medium	Black
BBGTLGL/BK	Left (L)	Large	Black
BBGTSMR/BK	Right (R)	Small	Black
BBGTMDR/BK	Right (R)	Medium	Black
BBGTLGR/BK	Right (R)	Large	Black

Not illustrated

Notice: Black gloves are only available as standard gloves (without TrueFinish™).

bebionic

Battery cell

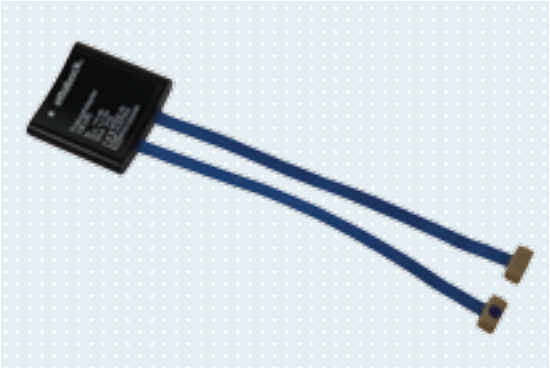
Article no. BBI-2200S

The bebionic hand has five drive motors and therefore requires a higher power supply than standard myo hands. Thanks to the removable casing, the two battery cells can be separated for a lighter prosthesis.
With separate on/off switch.

Technical data	BBI-2200S
Capacity	2,200 mAh
Voltage (nominal)	7.4 V
Charging time	3–4 hours
Dimensions (L x W x H)	18.5x36.5x70 mm (dual cell), 18.5x18.5x70 mm (single cell)
Weight	40 g

Battery charger

Article no. BBCBI

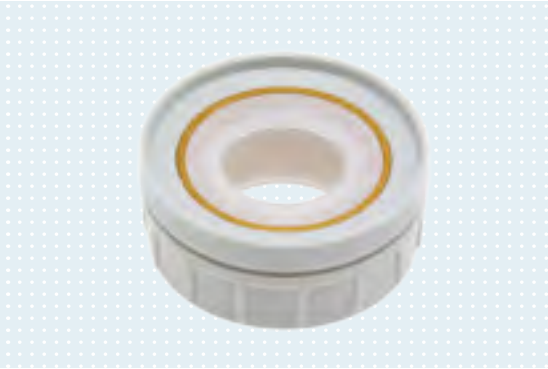


AnalogAdapter

Article no. 13E100

The adapter enables the control of the analogue Ottobock hand systems in combination with the DynamicArm. The digital signal of the DynamicArm is converted to an analogue signal by the adapter.

Lamination ring
Article no. 10S1



Lamination ring for system electric hands (article no. 8E38) or system electric Greifers (article no. 8E33) with lamination protection cover for gluing.

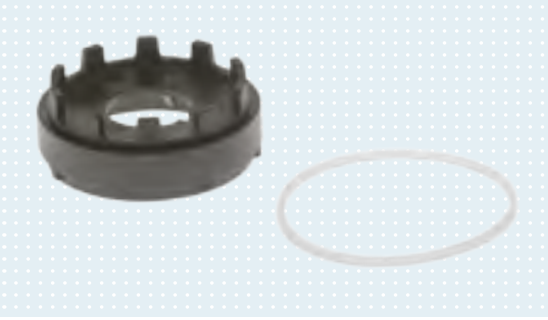
Article no.	Size
10S1=40	7
10S1=45	Small
10S1=50	Medium
10S1=54	Large

Coaxial plug
Article no. 9E169

Coaxial plug for connecting the two electrodes and the battery.

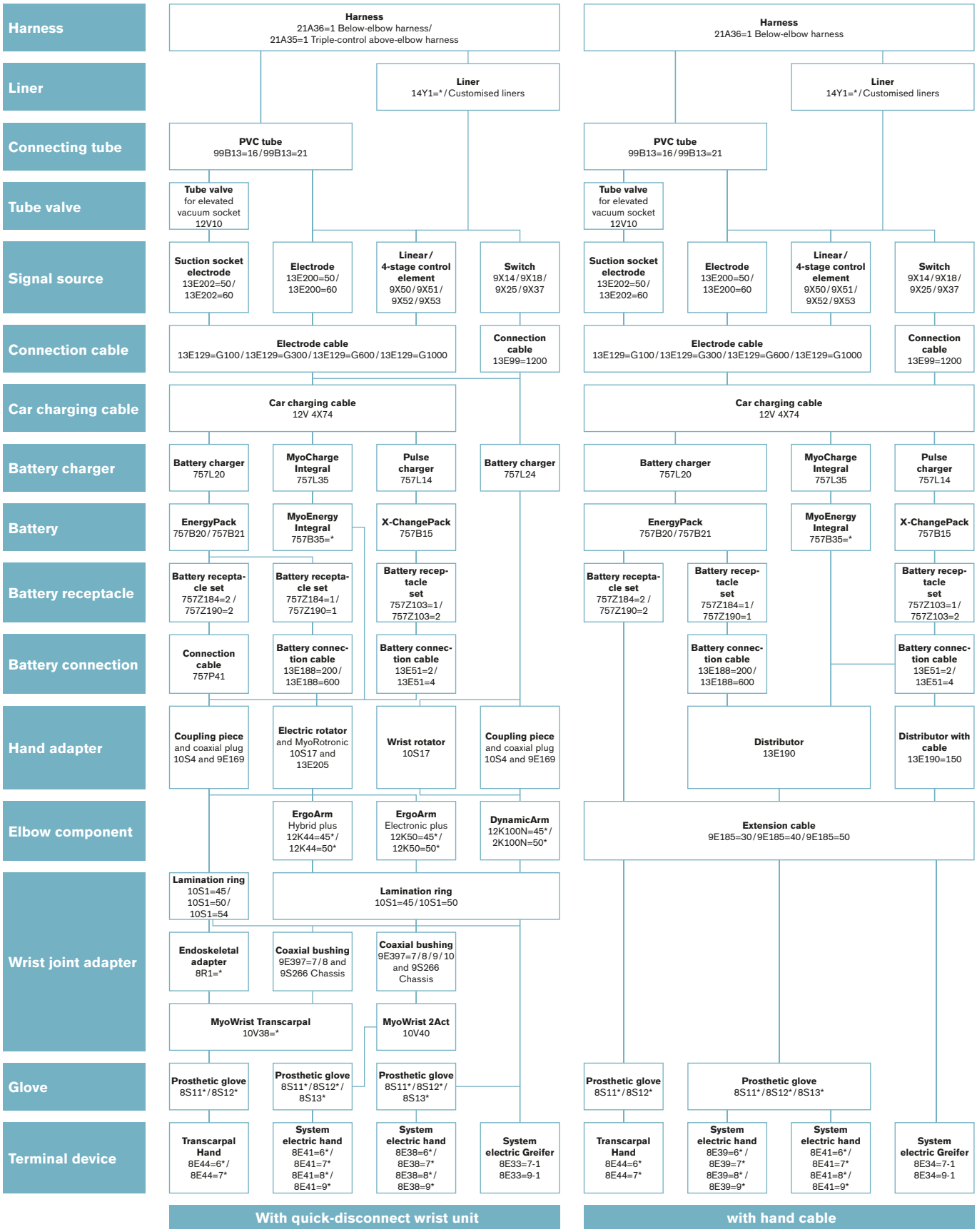
Consisting of
- Coaxial plug piece
- Lock ring (article no. 9E170)
- Oval head screw (article no. 501S50=M4X6)

Coupling piece
Article no. 10S4



Coupling piece with lock ring.

MyoBock adult system overview



Myo terminal device

MyoHand VariPlus Speed

Article no. 8E38=9

The MyoHand VariPlus Speed with quick-disconnect wrist unit is a further development from Ottobock. It combines the mechanical characteristics of the SensorHand Speed and the control options of the DMC VariPlus system electric Greifer. Thanks to the high gripping force (approx. 100 N) and speed (up to 300 mm/s), objects can be gripped quickly and precisely. A total of six different programmes can be selected and adapted according to patient indications using the MyoSelect (article no. 757T13). This permits optimum adaptation to the needs and abilities of the prosthesis user.

The following control versions can be selected with the MyoSelect (article no. 757T13)

- DMC plus (white)
- AutoControl LowInput (red)
- VarioControl (blue)
- VarioDual (yellow)

The MyoHand VariPlus Speed can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). With central coaxial plug connection, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E38=9-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents
8E38=9-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Men
8E38=9-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Men
8E38=9-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents
8E38=9-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Men
8E38=9-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Men

Technical data

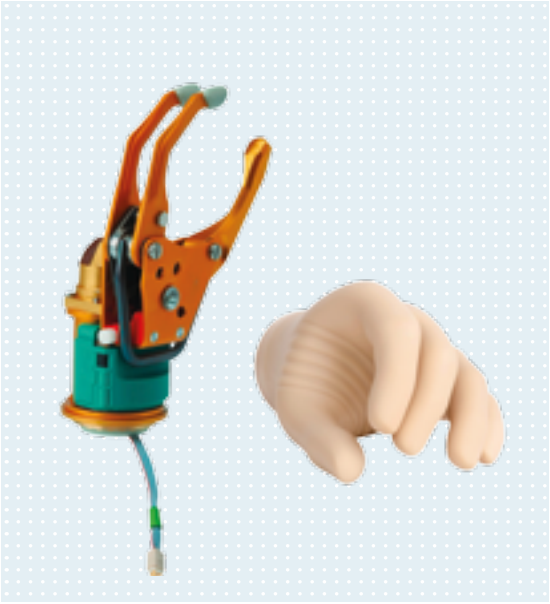
Static current	1 mA
Operating temperature	0 to +70°
Opening width	100 mm
Proportional gripping force approx.	0–100 N
Proportional speed	15–300 mm/sec
Weight (incl. system inner hand)	460 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–64.

646D165
646D321

647G504

Myo terminal device



646D165
646D321

647G504

MyoHand VariPlus Speed

Article no. 8E39=9

The MyoHand VariPlus Speed with lamination ring is a further development from Ottobock. It combines the mechanical characteristics of the SensorHand Speed and the control options of the DMC VariPlus system electric Greifer. Thanks to the high gripping force (approx. 100 N) and speed (up to 300 mm/s), objects can be gripped quickly and precisely. A total of six different programmes can be selected and adapted according to patient indications using the MyoSelect (article no. 757T13). This permits optimum adaptation to the needs and abilities of the prosthesis user.

The following control versions can be selected with the MyoSelect (article no. 757T13)

- DMC plus
- AutoControl LowInput
- VarioControl
- VarioDual
- DigitalControl
- DoubleChannel Control

The MyoHand VariPlus Speed can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). It features a centrally guided flat cable, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E39=9-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents
8E39=9-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Men
8E39=9-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Men
8E39=9-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents
8E39=9-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Men
8E39=9-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Men

Technical data

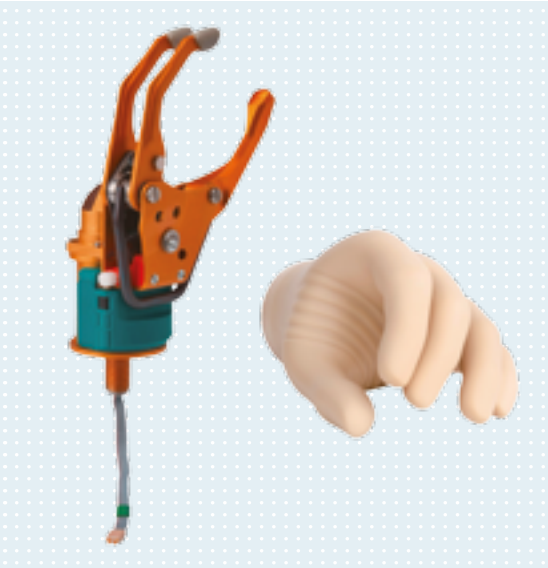
Static current	1 mA
Operating temperature	0 to +70°
Opening width	100 mm
Proportional gripping force approx.	0–100 N
Proportional speed	15–300 mm/sec
Weight (incl. system inner hand)	460 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–64.

Myo terminal device

MyoHand VariPlus Speed

Article no. 8E41=9



646D165
646D321

647G504

The MyoHand VariPlus Speed with M12X1.5 threaded stud is a further development from Ottobock. It combines the mechanical characteristics of the SensorHand Speed and the control options of the DMC VariPlus system electric Greifer. Thanks to the high gripping force (approx. 80 N) and speed (up to 300 mm/s), objects can be gripped quickly and precisely. A total of six different programmes can be selected and adapted according to patient indications using the MyoSelect (article no. 757T13). This permits optimum adaptation to the needs and abilities of the prosthesis user.

The following control versions can be selected with the MyoSelect (article no. 757T13)

- DMC plus
- AutoControl LowInput
- VarioControl
- VarioDual
- DigitalControl
- DoubleChannel Control

The MyoHand VariPlus Speed can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15).
It features a central cable outlet, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E41=9-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents
8E41=9-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Men
8E41=9-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Men
8E41=9-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents
8E41=9-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Men
8E41=9-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Men

Technical data	
Static current	1 mA
Operating temperature	0 to +70°
Opening width	100 mm
Proportional gripping force approx.	0–100 N
Proportional speed	15–300 mm/sec
Weight (incl. system inner hand)	460 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–64.

MyoHand VariPlus Speed control programmes

Programme 1	Open	Close	Indication
DMC plus	• Sustained electrode signal • Speed: proportional • Adjustment regulator A	• Sustained electrode signal • Gripping force: proportional. After gripping once with maximum force, the EMG signal required to open the hand will be set to a higher value. Opening the MyoHand VariPlus Speed with unwanted electrode signals is prevented. • Speed: proportional • Adjustment regulator A	• For patients with two strong electrode signals

Programme 2	Open	Close	Indication
AutoControl LowInput	• Sustained electrode signal • Reduced proportionality range: maximum speed once low threshold has been reached • Speed: proportional • Adjustment regulator A	• Sustained electrode signal • Gripping force: time proportional. After gripping once with maximum force, the EMG signal required to open the hand will be set to a higher value. Opening the MyoHand VariPlus Speed with unwanted electrode signals is prevented. • Speed: constant • Adjustment regulator B	• For patients with two weak electrode signals
AutoControl LowInput	• Sustained electrode signal • Reduced proportionality range: maximum speed once low threshold has been reached • Speed: proportional • Adjustment regulator A	• Signal via the switch • Gripping force: time proportional. After gripping once with maximum force, the EMG signal required to open the hand will be set to a higher value. Opening the MyoHand VariPlus Speed with unwanted electrode signals is prevented. • Speed: constant • Adjustment regulator B	• For patients with only one muscle and weak electrode signal
AutoControl LowInput	• The MyoHand VariPlus Speed opens as long as the OPEN side of the switch is operated • Speed: constant • Adjustment regulator A	• The MyoHand VariPlus Speed closes as long as the CLOSE side of the switch is operated • Gripping force: time proportional • Speed: constant • Adjustment regulator B	• For patients with a weak or no electrode signal

Programme 3	Open	Close	Indication
VarioControl	• Increasing electrode signal through muscle contraction • Speed and strength of muscle contraction on the electrode • Speed: proportional • Adjustment regulator A	• Declining electrode signal through muscle relaxation • Gripping force: proportional to the decline of the electrode signal • Speed: proportional • Adjustment regulator A	• For users with one strong electrode signal or tendency to co-contraction
VarioControl	• Speed and strength of pull on the linear control element • Speed: proportional • Adjustment regulator A	• Speed of release of pull on the linear control element. • Gripping force: proportional to the decrease of the pull on the linear control element • Speed: proportional • Adjustment regulator A	• For patients with a weak or no electrode signal

MyoHand VariPlus Speed control programmes

Programme 4	Open	Close	Indication
VarioDual	• Increasing electrode signal through muscle contraction on the first electrode • Speed and strength of muscle contraction on the electrode • Speed: proportional to the increase of the electrode signal • Adjustment regulator A	• Declining electrode signal through muscle relaxation on the first electrode • Gripping force: proportional to the signal strength on the second electrode. If only the first electrode is used, the MyoHand VariPlus Speed closes up to the minimal gripping force. • Increased gripping force: achieved by secondary gripping with a stronger electrode signal on the second electrode. After gripping once with maximum force, the EMG signal required to open the hand will be set to a higher value. Opening the MyoHand VariPlus Speed with unwanted electrode signals is prevented. • Speed: proportional to the decline of the electrode signal on the first electrode / proportional to the signal strength on the second electrode. • Adjustment regulator A	• For patients with two strong electrode signals

Programme 5	Open	Close	Indication
Digital Control	• Sustained electrode signal • Adjustment regulator B	• Sustained electrode signal • Gripping force: duration of the signal • Adjustment regulator B	• For patients with two weak electrode signals
Digital Control	• Sustained electrode signal • Adjustment regulator B	• Signal via the switch • Gripping force: duration of the signal • Adjustment regulator B	• For patients with only one muscle and weak electrode signals
Digital Control	• The MyoHand VariPlus Speed opens as long as the OPEN side of the switch is operated • Adjustment regulator B	• The MyoHand VariPlus Speed closes as long as the CLOSE side of the switch is operated • Gripping force: duration of the signal • Adjustment regulator B	• For patients with weak or no electrode signals

Programme 6	Open	Close	Indication
Double Channel Control	• Quick, strong electrode signal that reaches the upper threshold within 80 ms and is maintained above the upper threshold for at least 30 ms • Adjustment regulator B	• Slow, gentle electrode signal that does not reach the upper threshold within 80 ms • Gripping force: duration of the signal • Adjustment regulator B	• For patients with one strong electrode signal

Myo terminal device

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646D321

647H495

SensorHand Speed

Article no. 8E38=8

The SensorHand Speed with quick-disconnect wrist unit is suitable for all residual limb lengths, except wrist disarticulation residual limbs. Passive wrist rotation with ratchet lock (can be replaced by the friction ring (article no. 11S30)). The SensorHand Speed features the automatic SUVA Sensor grip stabilisation system, the FlexiGrip function as well as different control programmes for prostheses with one or two electrodes.
Coding plugs of various colours (article no. 13E184=*) or the MyoSelect (article no. 757T13) are used to select the desired control mode. Please also note the information in the user manual regarding this.

White: DMC plus control (article no. 13E184=1)
Red: AutoControl LowInput control (article no. 13E184=2)
Green: AutoControl control (article no. 13E184=3)
Blue: VarioControl control (article no. 13E184=4)
Yellow: VarioDual control (article no. 13E184=5)
Purple: DMC plus control; SUVA sensors and FlexiGrip can be turned off (article no. 13E184=6)

The SensorHand Speed can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). With central coaxial plug connection, automatic shut-off electronics with integrated on-off switch and
low friction bevel gear, positive back lock and system inner hand. An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E38=8-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents
8E38=8-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Men
8E38=8-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Men
8E38=8-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents
8E38=8-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Men
8E38=8-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Men

Technical data

Operating voltage	6/7.2 V
Opening width	100 mm
Proportional gripping force approx.	0–100 N
Proportional speed	15–300 mm/sec
Weight (incl. system inner hand)	462 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–64.

Myo terminal device

SensorHand Speed

Article no. 8E39=8

646D165
646D321

647H495

The SensorHand Speed with lamination ring is suitable for wrist disarticulation residual limbs. Passive wrist rotation with friction. The SensorHand Speed features the automatic SUVA Sensor grip stabilisation system, the FlexiGrip function as well as different control programmes for prostheses with one or two electrodes. Coding plugs of various colours (article no. 13E184=*) or the MyoSelect (article no. 757T13) are used to select the desired control mode. Please also note the information in the user manual regarding this.

White: DMC plus control (article no. 13E184=1)
Red: AutoControl LowInput control (article no. 13E184=2)
Green: AutoControl control (article no. 13E184=3)
Blue: VarioControl control (article no. 13E184=4)
Yellow: VarioDual control (article no. 13E184=5)
Purple: DMC plus control; SUVA sensors and FlexiGrip can be turned off (article no. 13E184=6)

The SensorHand Speed can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20 / 757B21) or the X-Change-Pack (article no. 757B15). It features a centrally guided flat cable, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E39=8-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents
8E39=8-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Men
8E39=8-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Men
8E39=8-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents
8E39=8-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Men
8E39=8-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Men

Technical data

Operating voltage	6 / 7.2 V
Opening width	100 mm
Proportional gripping force approx.	0–100 N
Proportional speed	15–300 mm / sec
Weight (incl. system inner hand)	462 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–64.

Myo terminal device

646D165
646D321

646D495

SensorHand Speed

Article no. 8E41=8

The SensorHand Speed with M12X1.5 threaded stud is suitable for all residual limb lengths, except wrist disarticulation residual limbs. It features the automatic SUVA Sensor grip stabilisation system, the FlexiGrip function as well as different control modes for prostheses with one or two electrodes.
Coding plugs of various colours (article no. 13E184=*) or the MyoSelect (article no. 757T13) are used to select the desired control mode. Please also note the information in the user manual regarding this.

White: DMC plus control (article no. 13E184=1)
Red: AutoControl LowInput control (article no. 13E184=2)
Green: AutoControl control (article no. 13E184=3)
Blue: VarioControl control (article no. 13E184=4)
Yellow: VarioDual control (article no. 13E184=5)
Purple: DMC plus control; SUVA sensors and FlexiGrip can be turned off (article no. 13E184=6)

The SensorHand Speed can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-Change-Pack (article no. 757B15). It features a central cable outlet, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E41=8-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents
8E41=8-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Men
8E41=8-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Men
8E41=8-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents
8E41=8-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Men
8E41=8-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Men

Technical data

Operating voltage	6/7.2 V
Opening width	100 mm
Proportional gripping force approx.	0–100 N
Proportional speed	15–300 mm/sec
Weight (incl. system inner hand)	462 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–64.

SensorHand Speed control programmes

Programme 1	Open	Close	Indication
DMC plus sensors • White coding plug • Two electrodes	• Myo-signal via the electrode • Speed: proportional	• Myo-signal via the electrode • Speed: proportional	• Preferred programme for patients with two strong muscle signals

Programme 2	Open	Close	Indication
AutoControl LowInput • Red coding plug • Two electrodes	• Myo-signal via the electrode • Speed: proportional	• Myo-signal to the electrode, digital (short signal at any level) • Speed: constant	• For patients with two weak muscle signals
AutoControl LowInput • Red coding plug • One electrode and any MyoBock switch	• Myo-signal via the electrode • Speed: proportional	• Signal via the switch • Speed: constant	• For patients with only one muscle and weak muscle signal
AutoControl LowInput • Red coding plug • Any MyoBock switch	• Hand opens as long as the OPEN side of the switch is operated. • Speed: constant	• Signal via the CLOSE side of the switch: hand closes • Speed: constant	• For patients with weak or no muscle signals

Programme 3	Open	Close	Indication
AutoControl • Green coding plug • One electrode	• Quick, sustained myo-signal via the electrode • Speed: constant	• Very slow muscle relaxation via the electrode: hand stops in an opened position • Quick muscle relaxation via the electrode: hand closes • Speed: constant	• For patients with only one muscle and very weak muscle signal
AutoControl • Green coding plug • Any MyoBock switch	• Opens as long as the OPEN side of the switch is operated • Speed: constant	• Closes automatically as soon as the switch is released • Speed: constant	• For patients with weak or no muscle signals

Programme 4	Open	Close	Indication
VarioControl • Blue coding plug • One linear control element	• Speed and strength of muscle contraction on the electrode • Speed: proportional	• Speed and level of muscle relaxation on the electrode • Speed: proportional	• For patients with one muscle and strong muscle signal or tendency to co-contraction
VarioControl • Blue coding plug • One linear control element	• Speed and force of pull on the linear control element. • Speed: proportional	• Speed of release of pull on the linear control element • Speed: proportional	• For patients with weak or no muscle signal

Programme 5	Open	Close	Indication
VarioDual • Yellow coding plug • Two electrodes	• Speed and level of muscle contraction on the first electrode • Speed: proportional	• Speed and level of muscle relaxation on the first electrode • Speed: proportional • Gripping force proportional to strength of muscle signal on the second electrode	• Control for patients with two strong muscle signals
DMC plus (sensor system can be deactivated) • Purple coding plug • Two electrodes	• Myo-signal via the electrode • Speed: proportional	• Myo-signal via the electrode • Speed: proportional	• Programme for patients with two strong muscle signals • SUVA sensors and FlexiGrip can be switched off

Myo terminal device

DMC plus system electric hand

Article no. 8E38=6

The DMC plus system electric hand with quick-disconnect wrist unit is suitable for all residual limb lengths, except wrist disarticulation residual limbs. Passive wrist rotation with ratchet lock (can be replaced by the friction ring (article no. 11S30)). DMC plus control features a DMC and DMC plus control mode. The desired control option is selected with the integrated function plug (article no. 13E185). In DMC plus control mode, a higher signal is required to open the hand after grasping once with maximum gripping force. This reduces the risk of opening the hand with unintended muscle signals. Two independent measurement and control systems proportionally control both the gripping speed and gripping force. Gripping speed and gripping force are determined by the strength of the muscle signal. The DMC plus system electric hand can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). It features a central coaxial plug connection, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch makes opening possible in case of emergency.

646D44 647H326

Article no.	Side	Size	Inner hand	User
8E38=6-L7	Left (L)	7	8X18=L7	Women, adolescents
8E38=6-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents, men
8E38=6-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Women, adolescents, men
8E38=6-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Women, adolescents, men
8E38=6-R7	Right (R)	7	8X18=R7	Women, adolescents
8E38=6-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents, men
8E38=6-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Women, adolescents, men
8E38=6-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Women, adolescents, men

Technical data

Operating voltage	6 / 7.2 V
Opening width	79–100 mm
Proportional gripping force	0–90 N
Proportional speed	15–130 mm / sec
Weight (incl. system inner hand)	355–457 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–65.

Tip

- The Electric Hand size 7 closes the gap between the Electric Hand 2000 hand system for children and the well-known system electric hands for adults. It is particularly suitable for the fitting of adolescents or women with small, dainty hands.
- It is offered with the familiar Digital Twin and DMC plus control systems.
- The system electric hands can be operated with the MyoEnergy Integral and EnergyPack, Ottobock's Li-poly/Li-ion battery technology.

Myo terminal device

646D44 647H326

Tip

- The Electric Hand size 7 closes the gap between the Electric Hand 2000 hand system for children and the well-known system electric hands for adults. It is particularly suitable for the fitting of adolescents or women with small, dainty hands.
- It is offered with the familiar Digital Twin and DMC plus control systems.
- The system electric hands can be operated with the EnergyPack, Ottobock's Li-ion battery technology.

DMC plus system electric hand

Article no. 8E39=6

The DMC plus system electric hand with lamination ring is suitable for wrist disarticulation residual limbs. Passive wrist rotation with friction. DMC plus control features a DMC and DMC plus control mode. The desired control option is selected with the integrated function plug (article no. 13E185). In DMC plus control mode, a higher signal is required to open the hand after grasping once with maximum gripping force. This reduces the risk of opening the hand with unintended muscle signals. Two independent measurement and control systems proportionally control both the gripping speed and gripping force. Gripping speed and gripping force are determined by the strength of the muscle signal.
The DMC plus system electric hand can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). It features a centrally guided flat cable, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E39=6-L7	Left (L)	7	8X18=L7	Women, adolescents
8E39=6-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents, men
8E39=6-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Women, adolescents, men
8E39=6-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Women, adolescents, men
8E39=6-R7	Right (R)	7	8X18=R7	Women, adolescents
8E39=6-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents, men
8E39=6-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Women, adolescents, men
8E39=6-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Women, adolescents, men

Technical data

Static current	1 mA
Operating voltage	6/7.2 V
Opening width	79–100 mm
Proportional gripping force	0–90 N
Proportional speed	15–130 mm/sec
Weight (incl. system inner hand)	355–457 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–65.

Myo terminal device

DMC plus system electric hand

Article no. 8E41=6

The DMC plus system electric hand with M12X1.5 threaded stud is suitable for all residual limb lengths, except wrist disarticulation residual limbs. DMC plus control features a DMC and DMC plus control mode. The desired control option is selected with the integrated function plug (article no. 13E185). In DMC plus control mode, a higher signal is required to open the hand after grasping once with maximum gripping force. This reduces the risk of opening the hand with unintended muscle signals. Two independent measurement and control systems proportionally control both the gripping speed and gripping force. Gripping speed and gripping force are determined by the strength of the muscle signal.
The DMC plus system electric hand can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). It features a central cable outlet, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E41=6-L7	Left (L)	7	8X18=L7	Women, adolescents
8E41=6-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents, men
8E41=6-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Women, adolescents, men
8E41=6-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Women, adolescents, men
8E41=6-R7	Right (R)	7	8X18=R7	Women, adolescents
8E41=6-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents, men
8E41=6-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Women, adolescents, men
8E41=6-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Women, adolescents, men

Technical data

Operating voltage	6 / 7.2 V
Opening width	79–100 mm
Proportional gripping force	0–90 N
Proportional speed	15–130 mm / sec
Weight (incl. system inner hand)	355–457 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–65.

646D44

647H326

Tip

- The Electric Hand size 7 closes the gap between the Electric Hand 2000 hand system for children and the well-known system electric hands for adults. It is particularly suitable for the fitting of adolescents or women with small, dainty hands.
- It is offered with the familiar Digital Twin and DMC plus control systems.
- The system electric hands can be operated with the EnergyPack, Ottobock's Li-ion battery technology.

Myo terminal device

646D44 647H398

Transcarpal Hand DMC plus

Article no. 8E44=6

Its lamination plate makes it suitable for residual limb lengths from wrist disarticulation to transcarpal levels. Without hand rotation, i.e. active pronation and supination are essential (fine adjustment of the basic position is possible, however, after the socket has been completed). DMC plus control features a DMC and DMC plus control mode. In DMC plus control mode, a higher signal is required to open the hand after grasping once with maximum gripping force. This reduces the risk of opening the hand with unintended muscle signals. The desired control option is selected with the integrated function plug (article no. 13E185). In the DMC plus system, two independent measurement and control systems proportionally control gripping speed as well as gripping force. The Transcarpal Hand DMC plus can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). It features a centrally guided flat cable, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E44=6-L7 ¼	Left (L)	7 ¼	8X24=L7 ¼	Women, adolescents
8E44=6-L7 ¾	Left (L)	7 ¾	8X24=L7 ¾	Men
8E44=6-L8 ¼	Left (L)	8 ¼	8X24=L8 ¼	Men
8E44=6-R7 ¼	Right (R)	7 ¼	8X24=R7 ¼	Women, adolescents, men
8E44=6-R7 ¾	Right (R)	7 ¾	8X24=R7 ¾	Men
8E44=6-R8 ¼	Right (R)	8 ¼	8X24=R8 ¼	Men

Technical data

Operating voltage	6 / 7.2 V
Operating temperature	0 to +70 °C
Opening width	100 mm
Proportional gripping force	0–90 N
Proportional speed	15–130 mm/sec
Weight (incl. system inner hand)	308 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–64.

Myo terminal device

Digital Twin system electric hand

Article no. 8E38=7

The Digital Twin system electric hand with quick-disconnect wrist unit is suitable for all residual limb lengths, except wrist disarticulation residual limbs. Passive hand rotation with ratchet lock (can be replaced by the friction ring (article no. 11S30)). The Digital Twin control device features a digital and dual-channel control mode. The desired control option is selected with the integrated function plug (article no. 13E185). The Digital Twin system electric hand can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15).
It features a central coaxial plug connection, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. With potentiometer for adjusting the switching threshold (double-channel control). An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E38=7-L7	Left (L)	7	8X18=L7	Women, adolescents
8E38=7-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents, men
8E38=7-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Women, adolescents, men
8E38=7-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Women, adolescents, men
8E38=7-R7	Right (R)	7	8X18=R7	Women, adolescents
8E38=7-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents, men
8E38=7-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Women, adolescents, men
8E38=7-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Women, adolescents, men

Technical data

Operating voltage	6 / 7.2 V
Max. opening width	79 mm (size 7), 100 mm (size 7 ¼, 7 ¾, 8 ¼)
Max. gripping force	90 N
Maximum speed	110 mm / sec
Weight (incl. system inner hand)	355–457 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–65.

646D44 647H327

Tip

- The Electric Hand size 7 closes the gap between the Electric Hand 2000 hand system for children and the well-known system electric hands for adults. It is particularly suitable for the fitting of adolescents or women with small, dainty hands.
- It is offered with the familiar Digital Twin and DMC plus control systems.
- The system electric hands can be operated with the EnergyPack, Ottobock's Li-ion battery technology.

Myo terminal device

646D44 647H327

Tip

- The Electric Hand size 7 closes the gap between the Electric Hand 2000 hand system for children and the well-known system electric hands for adults. It is particularly suitable for the fitting of adolescents or women with small, dainty hands.
- It is offered with the familiar Digital Twin and DMC plus control systems.
- The system electric hands can be operated with the EnergyPack, Ottobock's Li-ion battery technology.

Digital Twin system electric hand

Article no. 8E39=7

The Digital Twin system electric hand with lamination ring is suitable for wrist disarticulation residual limbs. Passive wrist rotation with friction. The Digital Twin control device features a digital and dual-channel control mode. The desired control option is selected with the integrated function plug (article no. 13E185). The Digital Twin system electric hand can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). It features a centrally guided flat cable, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. With potentiometer for adjusting the switching threshold (double-channel control). An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E39=7-L7	Left (L)	7	8X18=L7	Women, adolescents
8E39=7-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents, men
8E39=7-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Women, adolescents, men
8E39=7-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Women, adolescents, men
8E39=7-R7	Right (R)	7	8X18=R7	Women, adolescents
8E39=7-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents, men
8E39=7-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Women, adolescents, men
8E39=7-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Women, adolescents, men

Technical data

Operating voltage	6 / 7.2 V
Max. opening width	79 mm (size 7), 100 mm (size 7 ¼, 7 ¾, 8 ¼)
Max. gripping force	90 N
Maximum speed	110 mm / sec
Weight (incl. system inner hand)	355 – 457 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62 – 65.

Myo terminal device

Digital Twin system electric hand

Article no. 8E41=7

The Digital Twin system electric hand with M12X1.5 threaded stud is suitable for all residual limb lengths, except wrist disarticulation residual limbs. The Digital Twin control device features a digital and dual-channel control mode. The desired control option is selected with the integrated function plug (article no. 13E185). The Digital Twin system electric hand can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). It features a central cable outlet, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. With potentiometer for adjusting the switching threshold (double-channel control). An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E38=7-L7	Left (L)	7	8X18=L7	Women, adolescents
8E38=7-L7 ¼	Left (L)	7 ¼	8X18=L7 ¼	Women, adolescents, men
8E38=7-L7 ¾	Left (L)	7 ¾	8X18=L7 ¾	Women, adolescents, men
8E38=7-L8 ¼	Left (L)	8 ¼	8X18=L8 ¼	Women, adolescents, men
8E38=7-R7	Right (R)	7	8X18=R7	Women, adolescents
8E38=7-R7 ¼	Right (R)	7 ¼	8X18=R7 ¼	Women, adolescents, men
8E38=7-R7 ¾	Right (R)	7 ¾	8X18=R7 ¾	Women, adolescents, men
8E38=7-R8 ¼	Right (R)	8 ¼	8X18=R8 ¼	Women, adolescents, men

Technical data

Operating voltage	6 / 7.2 V
Max. opening width	79 mm (size 7), 100 mm (size 7 ¼, 7 ¾, 8 ¼)
Max. gripping force	90 N
Maximum speed	110 mm / sec
Weight (incl. system inner hand)	355–457 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–65.

646D44 647H327

Tip

- The Electric Hand size 7 closes the gap between the Electric Hand 2000 hand system for children and the well-known system electric hands for adults. It is particularly suitable for the fitting of adolescents or women with small, dainty hands.
- It is offered with the familiar Digital Twin and DMC plus control systems.
- The system electric hands can be operated with the EnergyPack, Ottobock's Li-ion battery technology.

Myo terminal device

646D44 647H398

Transcarpal Hand Digital Twin

Article no. 8E44=7

The Transcarpal Hand Digital Twin with lamination plate is suitable for residual limb lengths from wrist disarticulation to transcarpal levels. Without hand rotation, i.e. active pronation and supination are essential (fine adjustment of the basic position is possible, however, after the socket has been completed). The Digital Twin control device features a digital and dual-channel control mode. The desired control option is selected with the integrated function plug (article no. 13E185). The Transcarpal Hand Digital Twin can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). It features a centrally guided flat cable, automatic shut-off electronics with integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. With potentiometer for adjusting the switching threshold. An integrated slip clutch makes opening possible in case of emergency.

Article no.	Side	Size	Inner hand	User
8E44=7-L7 ¼	Left (L)	7 ¼	8X24=L7 ¼	Women, adolescents
8E44=7-L7 ¾	Left (L)	7 ¾	8X24=L7 ¾	Men
8E44=7-L8 ¼	Left (L)	8 ¼	8X24=L8 ¼	Men
8E44=7-R7 ¼	Right (R)	7 ¼	8X24=R7 ¼	Women, adolescents, men
8E44=7-R7 ¾	Right (R)	7 ¾	8X24=R7 ¾	Men
8E44=7-R8 ¼	Right (R)	8 ¼	8X24=R8 ¼	Men

Technical data

Operating voltage	6 / 7.2 V
Max. opening width	100 mm (size 7 ¼, 7 ¾, 8 ¼)
Max. gripping force	90 N
Maximum speed	110 mm / sec
Weight (incl. system inner hand)	308 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!
- For compatible prosthetic gloves, see pages 62–64.

Spare parts and accessories for system electric hands

System inner hand

Article no. 8X18

System inner hand for Ottobock system electric hands sizes 7, 7 ¼, 7 ¾ and 8 ¼. Energy-saving, lightweight plastic version with partial reinforcement, with wire inserts in the fingers and sealing retainer ring or lock ring.

Article no.	Side	Size	Retainer ring or lock ring
8X18=L7	Left (L)	7	9S15=48
8X18=L7 ¼	Left (L)	7 ¼	9S187=7 ¼
8X18=L7 ¾	Left (L)	7 ¾	9S187=7 ¾
8X18=L8 ¼	Left (L)	8 ¼	9S187=8 ¼
8X18=R7	Right (R)	7	9S15=48
8X18=R7 ¼	Right (R)	7 ¼	9S187=7 ¼
8X18=R7 ¾	Right (R)	7 ¾	9S187=7 ¾
8X18=R8 ¼	Right (R)	8 ¼	9S187=8 ¼

For compatible prosthetic gloves, see pages 62–65.

System inner hand

Article no. 8X24

The system inner hand for Ottobock Transcarpal Hands sizes 7 ¼, 7 ¾ and 8 ¼.

Article no.	Side	Size
8X24=L7 ¼	Left (L)	7 ¼
8X24=L7 ¾	Left (L)	7 ¾
8X24=L8 ¼	Left (L)	8 ¼
8X24=R7 ¼	Right (R)	7 ¼
8X24=R7 ¾	Right (R)	7 ¾
8X24=R8 ¼	Right (R)	8 ¼

For compatible prosthetic gloves, see pages 62–65.

Spare parts and accessories for system electric hands

Lock ring

Article no. 9S187

For endoskeletal adapter and MyoWrist Transcarpal. Compatible with hand sizes 7 ¼, 7 ¾ and 8 ¼.

Article no.	Size
9S187=7 ¼	7 ¼
9S187=7 ¾	7 ¾
9S187=8 ¼	8 ¼

Special thread

Article no. 624Z12

The special thread is used for sealing the system inner hand (article no. 8X24) of the Transcarpal Hand.

Cable seal

Article no. 9E388

Cable seal for hand cable (article no. 9E53) with the Transcarpal Hand.

Hexagon nut

Article no. 502S97=M5

Hexagon nut with flange for thwe Transcarpal Hand.

Spare parts and accessories for system electric hands

Tweezers
Article no. 8Y1

Pinch gauge
Article no. 743F1

The pinch gauge is used to check the gripping force of system electric hands.

Derma Protection ArmComfort
Article no. 453A1

Derma Protection ArmComfort makes the transition from the forearm socket to the upper arm more visually appealing and provides additional support for the prosthesis. The special polymer gel coating, high elasticity and anatomical fit also improve wearer comfort.

Article no.	Target group
453A1	Adults
453A1=1	Children

EasyFit Arm donning sheath
Article no. OC1560

The EasyFit Arm donning sheath with valve opening (colour: green) saves strength and time when putting on an arm prosthesis. It feels comfortable when donning. It is made of high-quality material and is therefore very durable. It is also easy to clean in the washing machine. Also available in children's sizes.

Article no.	Size	Proximal residual limb wcircumference	Distal residual limb circumference	Sock length
OC1560=KIDS	KIDS	290 mm	150 mm	210 mm
OC1560=TR	TR	420 mm	220 mm	250 mm
OC1560=TH	TH	470 mm	280 mm	340 mm

646D536=M_DE

Myo prosthetic gloves

Natural: MyoSkin Natural

In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very lifelike appearance. The PVC-based material ensures that Skin Natural is very robust compared to other materials, and it has a relatively long life. This provides safety when using the gloves.

Due to a special modern surface treatment, the Skin Natural gloves are also easy to clean. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin.

The entire Skin Natural colour palette is produced with seven colours. The new 646M47 colour scale helps when selecting the right pattern.
For available colours, please ask our Customer Service.

646D423 647G571

MyoSkin Natural

Article no. 8S11N

The MyoSkin Natural (article no. 8S11N) is suitable for men.

Article no.	Side	Size	Inner hand	Sleeve length	Sleeve end circumference
8S11N=190X76L	Left (L)	7 ¼	8X18=L7 ¼, 8X24=L7 ¼	300 mm	230 mm
8S11N=210X78L	Left (L)	7 ¾	8X18=L7 ¾, 8X24=L7 ¾	320 mm	250 mm
8S11N=225X80L	Left (L)	8 ¼	8X18=L8 ¼, 8X24=L8 ¼	350 mm	260 mm
8S11N=190X76R	Right (R)	7 ¼	8X18=R7 ¼, 8X24=R7 ¼	300 mm	230 mm
8S11N=210X78R	Right (R)	7 ¾	8X18=R7 ¾, 8X24=R7 ¾	320 mm	250 mm
8S11N=225X80R	Right (R)	8 ¼	8X18=R8 ¼, 8X24=R8 ¼	350 mm	260 mm

Myo prosthetic gloves

MyoSkin Natural

Article no. 8S12N

The MyoSkin Natural (article no. 8S12N) is suitable for women.

Article no.	Side	Size	Inner hand	Sleeve length	Sleeve end circumference
8S12N=190X78L	Left (L)	7 ¼	8X18=L7 ¼, 8X24=L7 ¼	460 mm	250 mm
8S12N=190X78R	Right (R)	7 ¼	8X18=R7 ¼, 8X24=R7 ¼	460 mm	250 mm

646D423 647G571

MyoSkin Natural

Article no. 8S13N

The MyoSkin Natural (article no. 8S13N) is suitable for adolescents and women.

Article no.	Side	Size	Inner hand	Sleeve length	Sleeve end circumference
8S13N=7L	Left (L)	7	8X18=L7	280 mm	242 mm
8S13N=7R	Right (R)	7	8X18=R7	280 mm	242 mm

646D423 647G571

i Special cleaner for prosthetic gloves is found on page 66.

Myo prosthetic gloves

646D49 647G468

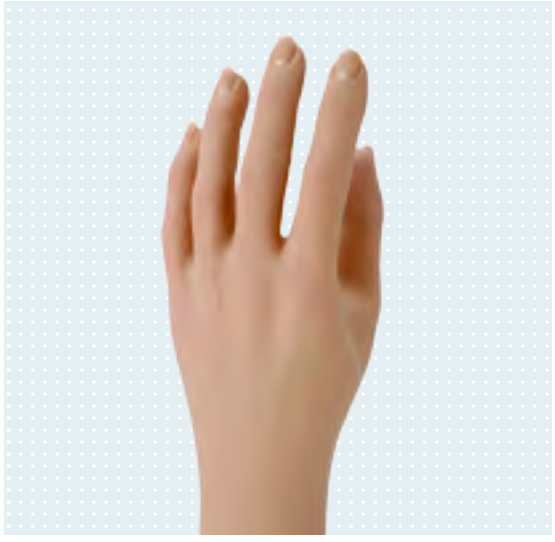
Prosthetic glove for adolescents and men

Article no. 8S11

The Ottobock prosthetic glove for adolescents and men features an impressively natural appearance, durability and flexibility. Size 7 ¼ is suitable for adolescents and men, the three additional sizes for men.

Article no.	Side	Size	Inner hand	Sleeve length	Sleeve end circumference
8S11=190X76L	Left (L)	7 ¼	8X18=L7 ¼, 8X24=L7 ¼	300 mm	230 mm
8S11=210X78L	Left (L)	7 ¾	8X18=L7 ¾, 8X24=L7 ¾	320 mm	250 mm
8S11=225X80L	Left (L)	8 ¼	8X18=L8 ¼, 8X24=L8 ¼	350 mm	260 mm
8S11=190X76R	Right (R)	7 ¼	8X18=R7 ¼, 8X24=R7 ¼	300 mm	230 mm
8S11=210X78R	Right (R)	7 ¾	8X18=R7 ¾, 8X24=R7 ¾	320 mm	250 mm
8S11=225X80R	Right (R)	8 ¼	8X18=R8 ¼, 8X24=R8 ¼	350 mm	260 mm

- Available in 18 different shades. When ordering, please add the colour code according to the 646M3 colour swatches to the end of the article number, e.g. 8S11=190X76L4



646D49 647G468

Prosthetic glove for women

Article no. 8S12

The prosthetic glove for women features an impressively natural appearance, durability and flexibility.

Article no.	Side	Size	Inner hand	Sleeve length	Sleeve end circumference
8S12=190X78L	Left (L)	7 ¼	8X18=L7 ¼, 8X24=L7 ¼	460 mm	250 mm
8S12=190X78R	Right (R)	7 ¼	8X18=R7 ¼, 8X24=R7 ¼	460 mm	250 mm

- Available in 18 different shades. When ordering, please add the colour code according to the 646M3 colour swatches to the end of the article number, e.g. 8S12=190x78L4

Myo prosthetic gloves

Prosthetic glove for children and adolescents

Article no. 8S13

The prosthetic glove for children and adolescents features an impressively natural appearance, durability and flexibility.

Article no.	Side	Size	Inner hand	Sleeve length	Sleeve end circumference
8S13=7L	Left (L)	7	8X18=L7	280 mm	242 mm
8S13=7R	Right (R)	7	8X18=R7	280 mm	242 mm

- Available in 18 different shades. When ordering, please add the colour code according to the 646M3 colour swatches to the end of the article number, e.g. 8S13=7L4

646D49 647G468

i Special cleaner for prosthetic gloves is found on page 66.

Accessories for Myo prosthetic gloves

Special cleaner

Article no. 640F12

In case of heavy soiling, the special cleaner for prosthetic gloves should be applied immediately (net contents: 460 g).

Pump sprayer

Article no. 640F13

The user should always keep a pump sprayer filled with special cleaner for Ottobock prosthetic gloves handy in order to be able to use the cleaner immediately in case of soiling (net contents: 90 g).

- This container is empty on delivery!

Donning spray

Article no. 640F18

The donning spray for silicone liners and prosthetic gloves (silicone or PVC) is used among other things for the donning and removal of the liner or prosthetic glove.

Article no.	Contents
640F18	90 ml
640F18=900	900 ml (refill)

Myo Greifer

DMC VariPlus system electric Greifer

Article no. 8E33=9-1

The DMC VariPlus system electric Greifer with quick-disconnect wrist unit is based on Ottobock's DMC system (DMC= dynamic mode control). This system developed by Ottobock uses two independent measurement and control systems in order to optimally control the gripping speed and gripping force in accordance with the patient's muscle signal. It is suitable for all residual limb lengths, except wrist disarticulation residual limbs. Six different programmes can be selected and adjusted using the MyoSelect (article no. 757T13). They allow the prosthesis to be optimally adapted to the user's individual abilities and requirements. The DMC VariPlus system electric Greifer can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). With central coaxial plug connection, energy-saving, automatic shut-off electronics and on-off switch. Metal finger tips and grip surfaces covered with rubber for normal gripping functions.

Technical data

Operating voltage	6 / 7.2 V
Max. opening width	95 mm
Max. gripping force	0 – 160 N
Maximum speed	8–200 mm/sec
Weight	540 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!

647G278

DMC VariPlus system electric Greifer

Article no. 8E34=9-1

The DMC VariPlus system electric Greifer with lamination ring is based on Ottobock's DMC system (DMC= dynamic mode control): This system developed by Ottobock uses two independent measurement and control systems in order to optimally control the gripping speed and gripping force in accordance with the patient's muscle signal. Suitable for wrist disarticulation residual limbs. Six different programmes can be selected and adjusted using the MyoSelect (article no. 757T13). They allow the prosthesis to be optimally adapted to the user's individual abilities and requirements. The DMC VariPlus system electric Greifer can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). With central flat cable connection, energy-saving, automatic shut-off electronics and on-off switch. Metal finger tips and grip surfaces covered with rubber for normal gripping functions.

Technical data

Operating voltage	6 / 7.2 V
Max. opening width	95 mm
Max. gripping force	0 – 160 N
Maximum speed	8–200 mm/sec
Weight	520 g

- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!

647G278

Myo Greifer

647H382

Digital Twin system electric Greifer

Article no. 8E33=7-1

The Digital Twin control device with quick-disconnect wrist unit features a digital and dual-channel control mode. For all residual limb lengths, except wrist disarticulation residual limbs. The desired control option is selected with the integrated function plug (article no. 13E189). The Digital Twin electric Greifer can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). Passive Greifer rotation with ratchet lock (can be replaced with the friction ring (article no. 11S30)).
With central coaxial plug connection, automatic shut-off electronics and on-off switch. Metal finger tips and grip surfaces covered with rubber for normal gripping functions. With two potentiometers to adjust the switching threshold.

Technical data

Operating voltage	6 / 7.2 V
Max. opening width	95 mm
Max. gripping force approx.	160 N
Approx. max. gripping speed	180 mm / sec
Weight	540 g

- The electrodes must be adjusted with the 757M11 MyoBoy!

647H382

Digital Twin system electric Greifer

Article no. 8E34=7-1

The Digital Twin control device with lamination ring features a digital and dual-channel control mode. Suitable for wrist disarticulation residual limbs. Passive Greifer rotation with friction. The desired control option is selected with the integrated function plug (article no. 13E189). The Digital Twin electric Greifer can be operated with the MyoEnergy Integral (article no. 757B35=*), the EnergyPack (article no. 757B20/757B21) or the X-ChangePack (article no. 757B15). It features a central flat cable outlet with automatic shut-off electronics and on-off switch. Metal finger tips and grip surfaces covered with rubber for normal gripping functions. With two potentiometers to adjust the switching threshold.

Technical data

Operating voltage	6 / 7.2 V
Max. opening width	95 mm
Max. gripping force approx.	160 N
Approx. max. gripping speed	180 mm / sec
Weight	520 g

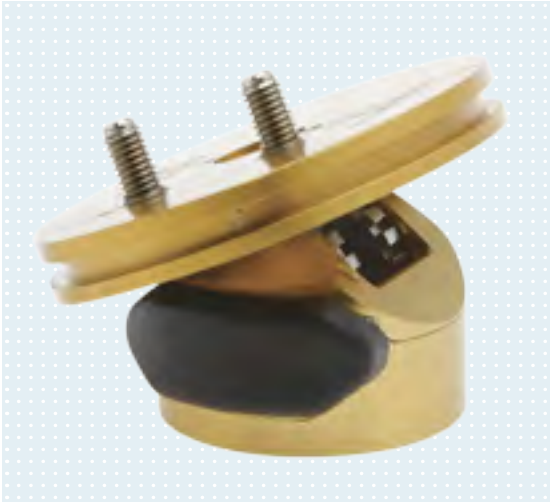
- The electrodes must be adjusted with the MyoBoy (article no. 757M11)!

Myo wrist joints and accessories

MyoWrist Transcarpal

Article no. 10V38

The MyoWrist Transcarpal enables flexion and extension of a myoelectrically controlled Transcarpal Hand (article no. 8E44). Can be locked in five positions from -40° to +40°. Passive pronation and supination is possible thanks to the quick-disconnect wrist unit. In combination with the optional electric rotator (article no. 10S17), pronation and supination driven by an electric motor can be offered. Compatible with all 8E44=* hands.



647G351

Consisting of

- Lock ring (article no. 9S267=*)

Article no.	Side	Size
10V38=L7 ¼	Left (L)	7 ¼
10V38 =L7 ¾	Left (L)	7 ¾
10V38=L8 ¼	Left (L)	8 ¼
10V38=R7 ¼	Right (R)	7 ¼
10V38=R7 ¾	Right (R)	7 ¾
10V38=R8 ¼	Right (R)	8 ¼

Technical data

Exterior diameter	36 mm
Overall length	24.7 mm
Weight	85–89 g

The MyoWrist Transcarpal can also be used with the endoskeletal adapter (article no. 8R1)!

i Please note the accessories on the following page!

MyoWrist 2Act

Article no. 10V40

The MyoWrist 2Act (article no. 10V40) was developed especially for all versions of the system electric hands with threaded stud (article no. 8E41) to maintain a low structural height for the overall system. Flexion and extension is possible with five locking positions from -40° to +40° in 20° increments. Rotation is performed passively via the quick-disconnect wrist unit. Active rotation is also possible in combination with the MyoRotronic (article no. 13E205).

647G459

Technical data

Exterior diameter	36 mm
Overall length	26 mm
Weight	55 g

Myo wrist joints and accessories

Chassis

Article no. 9S266

Chassis with quick-disconnect wrist unit.

Coaxial bushing

Article no. 9E397

Article no.	Control	Wrist connection
9E397=7	Coaxial bushing (DMC plus)	8E41 with 10V40 + 8E44 with 10V38
9E397=8	Digital Twin control	8E41 with 10V40 + 8E44 with 10V38
9E397=9	SensorHand Speed control	8E41 with 10V40
9E397=10	VariPlus Speed control	8E41 with 10V40

- The scope of delivery for article no. 9E397=7 and article no. 9E397=8 includes the cable connector, article no. 9E167!

Cable connector

Article no. 9E167

Lamination ring

Article no. 10S1

Lamination ring for system electric hands (article no. 8E38) or system electric Greifers (article no. 8E33) with lamination protection cover for gluing.

Article no.	Size
10S1=40	7
10S1=45	7 and 7 ¼
10S1=50	7 ¾ and system electric Greifer (article no. 8E33=*)
10S1=54	8 ¼

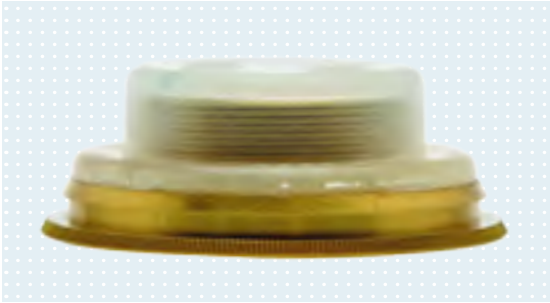
Myo wrist joints and accessories

Lamination ring

Article no. 9S110

Lamination ring for laminating all system electric hands (article no. 8E39) or system electric Greifers (article no. 8E34).

Article no.	Size
9S110=50	7, 7 ¼, 7 ¾, system electric Greifer (article no. 8E34=*)
9S110=54	8 ¼



Lamination plate

Article no. 9S258

Lamination plate for Ottobock Transcarpal Hand (article no. 8E44).

Article no.	Side	Size
9S258=L7 ¼	Left (L)	7 ¼
9S258=L7 ¾	Left (L)	7 ¾
9S258=L8 ¼	Left (L)	8 ¼
9S258=R7 ¼	Right (R)	7 ¼
9S258=R7 ¾	Right (R)	7 ¾
9S258=R8 ¼	Right (R)	8 ¼

Coaxial plug

Article no. 9E169

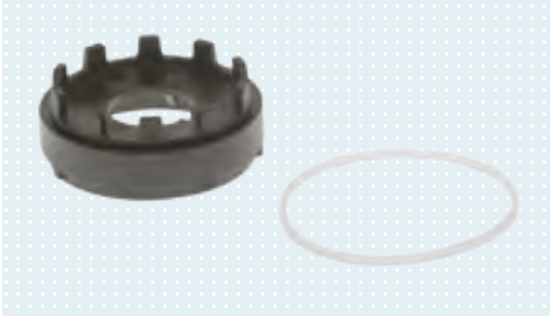
Coaxial plug for connecting the two electrodes and the battery.

Consisting of
- Coaxial plug piece
- Lock ring (article no. 9E170)
- Oval head screw (article no. 501S50=M4X6)

Coupling piece

Article no. 10S4

Coupling piece with lock ring.



Myo wrist joints and accessories

647H204

Electric rotator

Article no. 10S17

Electric rotator for power-driven rotation of the system electric hand or system electric Greifer.

Consisting of

- Lock ring (article no. 11S4)
- Joint drive with coaxial plug (article no. 11S61)
- Lock ring (article no. 11S25)
- Protective cap (article no. 9E85)
- Protective plug (article no. 9E365)

Technical data

Operating voltage	6 / 7.2 V
Approx. no-load current	150 mA
Approx. stall current	1,000 mA
Idle speed	13.5 RPM
Angle of rotation	360°
Corresponds to a rotation angle of	81° / sec.
Weight	96 g

647G361

MyoRotronic

Article no. 13E205

The MyoRotronic enables the proportional or digital control of the electric rotator (article no. 10S17). Compatible with all MyoBock system electric hands and system electric Greifers with quick-disconnect wrist unit.
Not suitable for use with system electric hands for other manufacturers' systems. Five different programmes can be selected using the MyoSelect (article no. 757T13) and allow individual adaptation to the respective patient. The MyoRotronic (article no. 13E205) is operated with one or two electrodes (article no. 13E200) or suction socket electrodes (article no. 13E202), or a combination of one electrode and one linear control element (article no. 9X50 / 9X52). The scope of delivery includes a buzzer (article no. 13E183) for acoustic feedback on the switchover.

Power supply

- MyoEnergy Integral 7.4 V (article no. 757B35)
- EnergyPack 7.2 V (article no. 757B20 / 757B21)
- X-ChangePack 6 V (article no. 757B15)

Technical data

Static current	1 mA
Operating temperature	0 to +70 °C
Power off	load dependent between 30 ms and 10 s

- The MyoSelect (article no. 757T13) is required for program selection and adjustment of the MyoRotronic (article no. 13E205).
- When using the electric rotator (article no. 10S17) and the MyoRotronic (article no. 13E205), the distance between the residual limb end and wrist joint must be at least 65 mm.
- Rotation can be switched off using the connection cable (article no. 9X24).

Myo wrist joints and accessories

Endoskeletal adapter

Article no. 8R1

Endoskeletal adapter for long and short residual limb prostheses in combination with the Transcarpal Hand (article no. 8E44; not included in the scope of delivery!). The endoskeletal adapter allows the use of the Transcarpal Hand as a particularly short and lightweight prosthetic hand with quick-disconnect mechanism for prostheses for both long and short residual limbs.

Particularly lightweight
Compared to a conventional system electric hand (article no. 8E38), the weight is reduced by approx. 80–100 g (approx. -20%), depending on size and tube length, without functional constraints. In addition, the proximal position of the quick-disconnect mechanism is beneficial to the prosthesis wearer.

Particularly short
The shortest version of the Transcarpal Hand with the quick-disconnect mechanism of the endoskeletal adapter is 145 mm, whereas the comparable system electric hand is 170 mm (= -15%). Size 7 ¾ with system inner hand was measured in each case.

Consisting of
- Coding ring, brown (1 pc.)
- Plate (article no. 9S263=R/L)
- Threaded connector (article no. 9S264)
- Threaded connector (article no. 9S265)
- Lock ring (article no. 9S267=*)
- Cable connector (article no. 9E167)
- Cable seal (article no. 9E388)
- Chassis (article no. 9S266)
- Coaxial bushing (article no. 9E397=8)
- Cover plate for coaxial bushing
- UHU-plus, endfest 300 (article no. 636W23)

Article no.	Side	To be used for the Transcarpal Hand
8R1=L7 ¼	Left (L)	8E44=6-L7 ¼, 8E44=7-L7 ¼
8R1=L7 ¾	Left (L)	8E44=6-L7 ¾, 8E44=7-L7 ¾
8R1=L8 ¼	Left (L)	8E44=6-L8 ¼, 8E44=7-L8 ¼
8R1=R7 ¼	Right (R)	8E44=6-R7 ¼, 8E44=7-R7 ¼
8R1=R7 ¾	Right (R)	8E44=6-R7 ¾, 8E44=7-R7 ¾
8R1=R8 ¼	Right (R)	8E44=6-R8 ¼, 8E44=7-R8 ¼

The endoskeletal adapter (article no. 8R1) can also be combined with the wrist joints (article no. 10V38 and 10V40)!

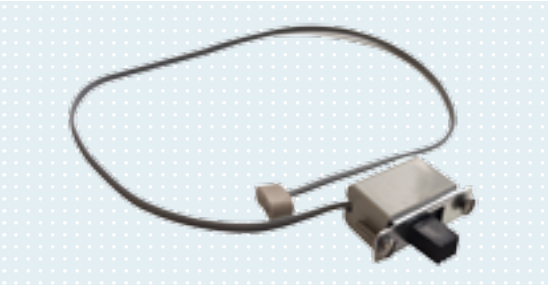
647H501

Connection cable

Article no. 9X24

Connection cable to deactivate rotation.

Notice: Only possible in programme 1 of 4-channel control!



Elbow components

646D229
646D120
646D626
646D26

647G152

DynamicArm

Article no. 12K100N

DynamicArm with electric drive, continuously electronically controlled vario-gear, integrated Li-ion battery, BionicLink Bluetooth interface, electronically controlled AFB flexion aid and upper arm rotation joint (humeral rotation feature) with adjustable friction, forearm length max. 305 mm. The DynamicArm is a microprocessor-controlled, elbow joint driven by an electric motor with movements that can be controlled very precisely. The elbow flexion and extension speed can be controlled proportionately. Likewise, pronation and supination of the wrist joint can be controlled proportionately via the integrated electronics of the electric rotator (article no. 10S17) (optional).
Up to 6 kg can be actively lifted depending on the forearm length.
When the user is active at a normal level, the integrated Li-ion battery with a capacity of 1,800 mAh will last approximately one day.
The BionicLink Bluetooth interface is integrated into the DynamicArm.
In combination with the ElbowSoft software (article no. 646C42) and Bluetooth adapter (article no. 60X5), it supports wireless adjustments using a PC. In this way the prosthesis system can be optimised even while the patient is wearing the prosthesis. Nine different programmes allow the system to adapt to various requirements. Moreover, all essential parameters can be set individually.

Article no.	Size	Upper arm connection diameter	Lamination ring diameter	Colour
12K100N=45	7 – 7 ¼	70 mm	45 mm	4
12K100N=45-7	7 – 7 ¼	70 mm	45 mm	7
12K100N=50	7 ¾ – 8 ¼	70 mm	50 mm	4
12K100N=50-1	7 ¾ – 8 ¼	70 mm	50 mm	11
12K100N=50-2	7 ¾ – 8 ¼	70 mm	50 mm	15
12K100N=50-7	7 ¾ – 8 ¼	70 mm	45 mm	7
13Z157=45	Cover			
13Z157=50	Cover			
642C42=*	ElbowSoft			

- The colour roughly corresponds to the glove colour according to the 646M3 colour swatches.
- This product requires certification. For further information, please contact our employees in customer service!

Elbow components

DynamicArm Plus

Article no. 12K110N

Like the DynamicArm, the DynamicArm Plus (article no. 12K110N) is a myoelectrically controlled, elbow joint driven by an electric motor. It is intended for fitting users with transhumeral or higher amputation levels who are using TMR, or are able to use more than two signals to control their prosthesis. Targeted Muscle Reinnervation (TMR) is the medical term for the surgical rerouting of nerves. The innovative prosthetic device enables the user to make more natural sequences of motion because the active joints can be controlled simultaneously. The user acts with the so-called phantom limb, which can be moved instinctively in the user's mental perception of their body. Learning thought control must be accompanied by intensive therapy. Apart from the advantages that control with more than two signals has to offer, it has the same features as the DynamicArm. Up to eight input signals can be processed in addition.

The DynamicArm Plus can be combined with other myoelectric prosthetic components from Ottobock, such as

- Electric rotator (article no. 10S17)
- SensorHand Speed (article no. 8E38=8*)
- MyoHand VariPlus Speed (article no. 8E38=9*)
- DMC VariPlus system electric Greifer (article no. 8E33=9)
- bebionic hand with EQD wrist (article no. BBH*QD)

Other prosthetic components can not be used. Settings for the DynamicArm Plus can be configured using the software (article no. 646C57), the integrated Bluetooth module and a PC.

Article no.	Description	Colour
12K110N=45	DynamicArm Plus	4
12K110N=50	DynamicArm Plus	4
12K110N=50-1	DynamicArm Plus	11
12K110N=50-2	DynamicArm Plus	15
12K110N=45-7	DynamicArm Plus	Black
12K110N=50-7	DynamicArm Plus	Black
13Z157=45	Cover	Black
13Z157=50	Cover	Black
646C57=*	ElbowSoft TMR	–

- The colour roughly corresponds to the glove colour according to the 646M3 colour swatches.
- This product requires certification. For further information, please contact our employees in customer service!

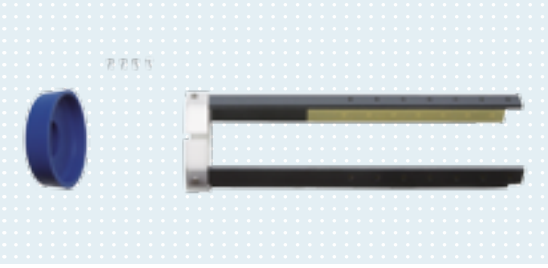
646D229
646D120

647G152

Alignment aid for DynamicArm

Article no. 743A27

Alignment and foaming aid allows the alignment of an interim prosthesis for functional training in the rehabilitation phase.



DynamicArm control programmes

Programme	Input	Switching version	DynamicArm flexion/extension	Electric rotator pronation/supination	System electric hand and Greifer	Indication
1	• Two electrodes	• Sequential switching with long or short co-contraction, with automatic switch-back to the hand • Vibration active	• Proportional	• Proportional	• All control versions for two strong muscle signals	• For patients with two strong muscle signals
2	• Two electrodes	• Short co-contraction with automatic switch-back to the hand • Vibration active	• Proportional	• Not applicable	• All control versions for two strong muscle signals	• For patients with two strong muscle signals
3	• Two electrodes and one switch	• Sequential switching with switch impulse • With automatic switch-back to the hand • Vibration active	• Proportional	• Proportional	• All control versions for two strong muscle signals	• For patients with two strong muscle signals
	• Two switches	• Sequential switching with switch impulse • With automatic switch-back to the hand • Vibration active	• Digital	• Digital	• All control versions for switch control	• For patients with weak or no muscle signals
4	• Two electrodes and one switch	• Switching back and forth with switch impulse • With automatic switch-back to the hand • Vibration active	• Proportional	• Not applicable	• All control versions for two strong muscle signals	• For patients with two strong muscle signals
	• Two switches	• Switching back and forth with switch impulse • With automatic switch-back to the hand • Vibration active	• Digital	• Not applicable	• All control versions for switch control	• For patients with weak or no muscle signals
5	• Two electrodes and one 4-stage control element	• Direct switching with the impulse of a 4-stage control element • With automatic switch-back to the hand • Vibration active	• Proportional	• Proportional	• All control versions for two strong muscle signals	• For patients with two strong muscle signals
	• One switch and one 4-stage control element	• Direct switching with the impulse of a 4-stage control element • With automatic switch-back to the hand • Vibration active	• Digital	• Digital	• All control versions for switch control	• For patients with weak or no muscle signals

DynamicArm control programmes

Programme	Input	Switching version	DynamicArm flexion/extension	Electric rotator pronation/supination	System electric hand and Greifer	Indication
6	• Two electrodes and one linear control element	• Four-channel control	• Position control with linear control element	• Digital	• All control versions for two strong muscle signals	• For patients with two strong muscle signals
7	• Two electrodes and one linear control element	• Co-contraction • With automatic switch-back to the hand • Vibration active	• Position control with linear control element	• Proportional	• All control versions with two electrodes	• For patients with two strong muscle signals
8	• Two electrodes and one linear control element	• Not applicable	• Position control with linear control element	• Not applicable	• All control versions with two electrodes	• For patients with two muscle signals of any strength • Simultaneous control of DynamicArm and terminal device possible
	• One switch and one linear transducer	• Not applicable	• Position control with linear control element	• Not applicable	• All control versions for switch control	• For patients with weak or no muscle signals
9	• One electrode and one linear control element	• Not applicable	• Position control with linear control element	• Not applicable	• All control versions with one electrode	• For patients with one strong muscle signal • Possibility for simultaneous control of DynamicArm and terminal device

Elbow components

647H437

ErgoArm Electronic plus

Article no. 12K50

ErgoArm Electronic plus with internal electronic lock and EasyPlug (internal electrical connection), AFB flexion aid and upper arm rotation joint (humeral rotation feature), with adjustable friction. Plastic forearm shell (length: 305 mm, circumference: approx. 260 mm) and elbow ball made of plastic.
The continuous electronic lock can be locked or unlocked either with myoelectric signals (e.g. two electrodes: co-contraction) or by means of a switch. Various programmes that can be accessed via MyoSelect and coloured coding plugs permit individual adaptation of the lock control system to the requirements of the respective user. The slip-stop function makes it possible to lower the forearm in a controlled manner without having to fully release and reactivate the lock (not included with every model!). The lock can bear a load of up to 230 N at a forearm length of 305 mm. The electrode and battery connection cables can be plugged into the elbow ball. Since there are no external cables, the risk of defects caused by broken cables is reduced and the cosmetic appearance is enhanced. The internal ratchetless lock can be unlocked or locked in any position, even under a load.

Accessories for 12K50

- Adapter (article no. 13Z68)
- Alignment aid for ErgoArm (article no. 743A23)
- Clamp stopple set (article no. 21A207)
- Forearm (article no. 12K48)
- AFB flexion aid (article no. 12K39)
- Cable harness (article no. 13E187)
- Elbow joint* (article no. 12A14)
- Strap clamp* (article no. 13G65)
- Band roller (article no. 13G66)
- Lamination ring (article no. 13Z47)
- Ball cap* (article no. 13Z48)
- Plug cover set (article no. 13Z49)
- Thread segment* (article no. 13Z50)
- Hole covering* (article no. 13Z51)
- Spring telescope (article no. 13Z52)
- Switch cable (article no. 13Z53)
- Lamination protection cover (article no. 13Z54) 5
- Bracket cover* (article no. 13Z56) 2
- Pressure piece* (article no. 13Z57)
- Eccentric* (article no. 13Z58)
- Lamination protection cover (article no. 13Z59) 4
- Countersunk head screw (article no. 501S101=M4X12)
- Countersunk head screw (article no. 501S84=M4X20)
- O-ring (article no. 627F13=60X2.5) 3
- Fixation fork (article no. 711M51) 1

* Marked articles are available in colour no. 11 by adding =1 and colour no. 15 by adding =2 at the end of the article number.

Article no.	Size	Upper arm connection diameter	Lamination ring diameter	Colour
12K50=45	7–7 ¼	70 mm	50 mm	4
12K50=45-1	7–7 ¼	70 mm	50 mm	11
12K50=45-2	7–7 ¼	70 mm	50 mm	15
12K50=50	7 ¾–8 ¼	70 mm	50 mm	4
12K50=50-1	7 ¾–8 ¼	70 mm	50 mm	11
12K50=50-2	7 ¾–8 ¼	70 mm	50 mm	15

The colour roughly corresponds to the glove colour according to the 646M3 colour swatches.

ErgoArm Electronic plus switching modes

Switching mode		Lock	SLIP-STOP	Four-channel processor II	Hand
1	**White**	• Press switch ▶ release = lock • Press switch ▶ release = unlock	• NO	• All switching modes	• All versions
2	**Red**	• Contraction = lock • Contraction = unlock	• NO	• Only programme 1 (white) four-channel control or programme 9 adjustment cap	• All versions with two electrodes
3	**Green**	• Press and hold down switch = elbow mode • Electrode OPEN = unlock • Electrode CLOSE = lock • Release switch = hand mode	• YES	• All switching modes	• All versions with two electrodes
4	**Blue**	• Press switch ▶ release = elbow mode • Electrode OPEN = unlock • Electrode CLOSE = lock • Press switch ▶ release = hand mode	• YES	• All switching modes	• All versions with two electrodes
5	**Yellow**	• Press switch ▶ release = elbow mode • Electrode OPEN = unlock • Electrode CLOSE = lock • 10 s no electrode signal = hand mode • or press switch ▶ release = hand mode	• YES	• All switching modes	• For patients with one strong electrode signal or tendency to co-contraction
6	**Purple**	• Co-contraction = elbow mode • Electrode OPEN = unlock • Electrode CLOSE = lock • Co-contraction = hand mode	• YES	• Only programme 1 (white) four-channel control or programme 9 adjustment cap	• Not recommended for hands with digital or Digital Twin control
7	**Orange**	• Co-contraction = elbow mode • Electrode OPEN = unlock • Electrode CLOSE = lock • 10 s no electrode signal = hand mode • or co-contraction = hand mode	• YES	• Only programme 1 (white) four-channel control or programme 9 adjustment cap	• Not recommended for hands with digital or Digital Twin control

Vibration signal feedback for successful switching between hand and elbow is provided in programmes 3–7.
1x vibration = hand model (electrode signals control the hand)
2x vibration = elbow mode (electrode signals control the elbow)

Elbow components

647H437

ErgoArm Hybrid plus

Article no. 12K44

ErgoArm Hybrid plus with internal ratchetless lock, AFB flexion aid and upper arm rotation joint (humeral rotation feature), with adjustable friction. Plastic forearm shell (length: 305 mm, circumference: approx. 260 mm) and elbow ball made of plastic. The slip-stop function makes it possible to lower the forearm in a controlled manner without having to fully release and reactivate the lock. The lock can bear a load of up to 230 N at a forearm length of 305 mm. The electrode and battery connection cables can be plugged into the elbow ball. Since there are no external cables, the risk of defects caused by broken cables is reduced and the cosmetic appearance is enhanced. The internal ratchetless lock can be unlocked or locked in any position, even under a load.

Accessories for 12K44

- Adapter (article no. 13Z68)
- Alignment aid for ErgoArm (article no. 743A23)
- Clamp stopple set (article no. 21A207)
- Forearm (article no. 12K48)
- AFB flexion aid (article no. 12K39)
- Cable harness (article no. 13E187)
- Elbow joint* (article no. 12A14)
- Strap clamp* (article no. 13G65)
- Band roller (article no. 13G66)
- Lamination ring (article no. 13Z47)
- Ball cap* (article no. 13Z48)
- Plug cover set (article no. 13Z49)
- Thread segment* (article no. 13Z50)
- Hole covering* (article no. 13Z51)
- Spring telescope (article no. 13Z52)
- Switch cable (article no. 13Z53)
- Lamination protection cover (article no. 13Z54) 5
- Bracket cover* (article no. 13Z56) 2
- Pressure piece* (article no. 13Z57)
- Eccentric* (article no. 13Z58)
- Lamination protection cover (article no. 13Z59) 4
- Countersunk head screw (article no. 501S101=M4X12)
- Countersunk head screw (article no. 501S84=M4X20)
- O-ring (article no. 627F13=60X2.5) 3
- Fixation fork (article no. 711M51) 1

* Marked articles are available in colour no. 11 by adding =1 and colour no. 15 by adding =2 at the end of the article number.

Article no.	Size	Upper arm connection diameter	Lamination ring diameter	Colour
12K44=45	7 – 7 ¼	70 mm	45 mm	4
12K44=45-1	7 – 7 ¼	70 mm	45 mm	11
12K44=45-2	7 – 7 ¼	70 mm	45 mm	15
12K44=50	7 ¾ – 8 ¼	70 mm	50 mm	4
12K44=50-1	7 ¾ – 8 ¼	70 mm	50 mm	11
12K44=50-2	7 ¾ – 8 ¼	70 mm	50 mm	15

The colour roughly corresponds to the glove colour according to the 646M3 colour swatches.

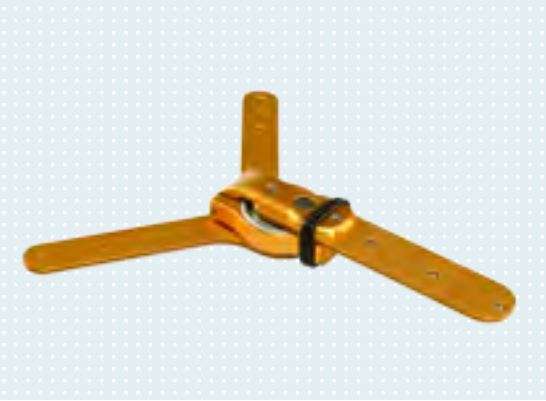
MovoShoulder Swing

Article no. 12S6

This shoulder joint opens up new possibilities for prosthetic devices in the shoulder area. The MovoShoulder Swing is ideal for prostheses with basic functions or in combination with high-tech components. The free swing of up to 40° reduces pressure from the prosthetic socket and allows even bilateral amputees to achieve natural, harmonious movements. Locking at 30° anteversion and unlocking is controlled by specific upper body motions or with the sound hand. No additional control elements such as switches or a body harness are required. Abduction of up to 20° facilitates more comfortable movement patterns during many activities of daily life. This especially applies to activities done close to the body or while sitting.

Article no.	**Side**
12S6=L	Left (L)
12S6=R	Right (R)

Technical data	
Overall length	230 mm
Weight	242 g

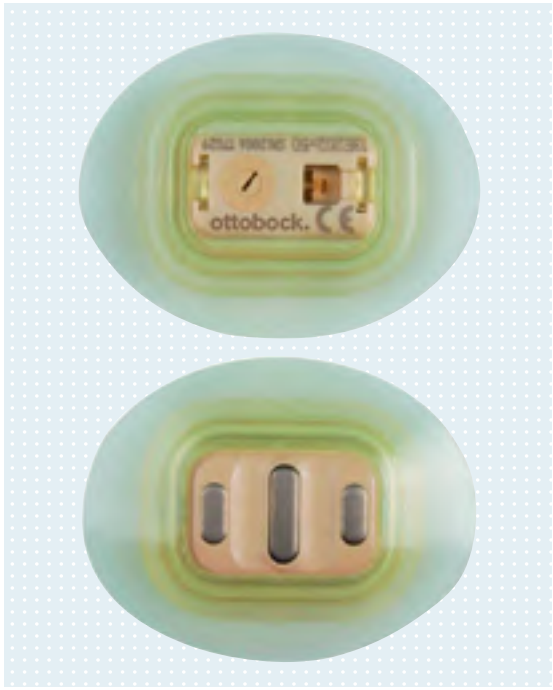


647G349

Tip

- This joint can also be fitted in conjunction with the DynamicArm (article no. 12K100N and 12K110N).

Electrodes



647G334

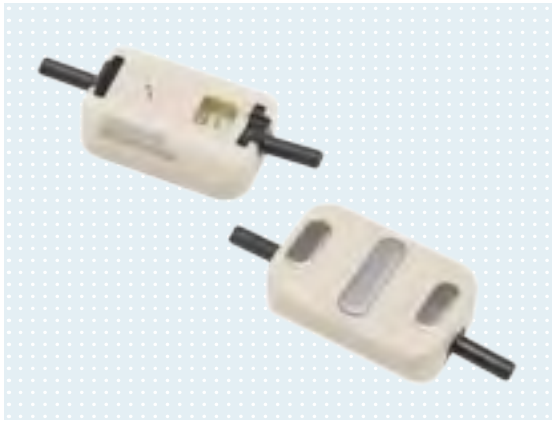
Suction socket electrode

Article no. 13E202

This generation of electrodes is based on the familiar 13E200 electrode. Embedded into a mounting suspension of elastic material, this electrode creates an airtight seal between the inner socket and outer socket.
If used correctly, the suction socket electrode (article no. 13E202) also prevents sweat from penetrating between the outer and inner socket, therefore effectively preventing damage to the electrical and mechanical components caused by corrosion.
The suction socket electrode can not only be used for standard sockets, but is also particularly suitable for application in elevated vacuum sockets. Combining the suction socket electrode with a tube valve (article no. 12V10) for an elevated vacuum socket creates a vacuum effect in the socket, optimising the hold of the residual limb in the socket. As with the 13E200 electrode, state-of-the-art shielding and filtering technologies largely protect the 13E202 suction socket electrode against high frequency interference caused, for example, by mobile phones, walkie-talkies, computers or anti-theft systems in shopping centres so that the correct function of the myoelectrically controlled prosthesis is not affected.
The electrode contacts are made from pure titanium and are therefore suitable for people with allergies as well. The frequency filter's full protection effect will only be provided if the mains frequency and filter frequency are identical.

Article no.	HZ	Frequency bandwidth	Room temperature	Operating voltage U
13E202=50	50	90–450 Hz	-15 to +60 °C	4.8–7.2 V
13E202=60	60	90–450 Hz	-15 to +60 °C	4.8–7.2 V

- Use silicone grease (article no. 633F11) to seal the plug connection. Remove any excessive grease after connecting the electrode cable.
- Accessories for vacuum forming inner sockets, see page 244.
- Tube valve (article no. 12V10), see page 96.



Electrode

Article no. 13E200

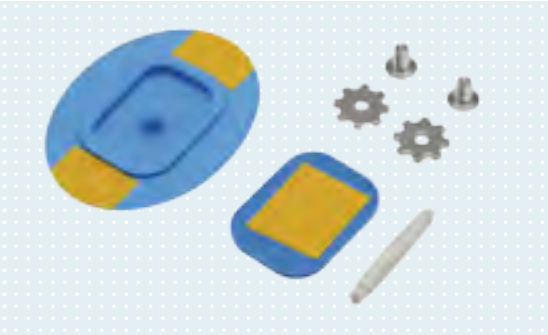
These MyoBock electrodes are particularly sensitive in the range of low muscle signals. The change in amplification takes place logarithmically, which enables enhanced differentiation of the signal level. Thanks to modern frequency shielding and filtering technologies, it is less sensitive to low and high frequency interferences that are emitted, for example, by mobile phones or shopping centre security systems. The electrode contacts are made from pure titanium and are therefore suitable for people with allergies as well. The electrode accessories (article no. 13E201) are part of the electrode scope of delivery. The frequency filter's full protection effect will only be provided if the mains frequency and filter frequency are identical. The electrode cable connection with IDC termination weighs 4.5 g (27 x 18 x 9.5 mm).

Article no.	HZ	Frequency bandwidth	Room temperature	Operating voltage U
13E200=50	50	90–450 Hz	-15 to +60 °C	4.8–7.2 V
13E200=60	60	90–450 Hz	-15 to +60 °C	4.8–7.2 V

- Use silicone grease (article no. 633F11) to seal the plug connection. Remove any excessive grease after connecting the electrode cable.
- Accessories for vacuum forming inner sockets, see page 244.

Accessories for electrodes

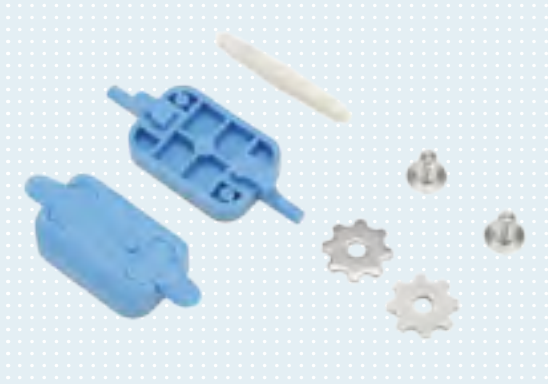
Electrode accessory set
Article no. 13E206



Suitable for suction socket electrodes (article no. 13E202).

Consisting of
- Casting template for inner socket (article no. 13E203)
- Lamination disc, serrated (article no. 507S15)
- Socket screw with Allen head (article no. 503F3)
- Sensitivity adjustment tool (article no. 13E80)

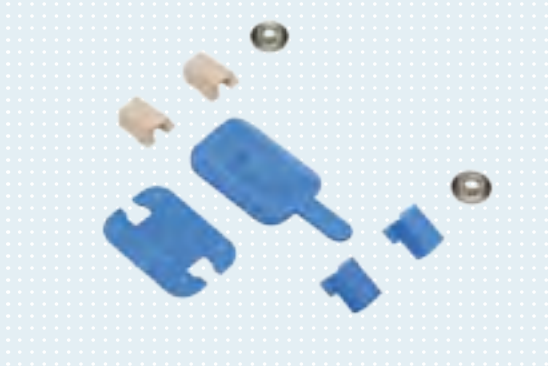
Electrode accessories
Article no. 13E153



For laminated inner sockets with electrode (article no. 13E200). Use the Allen wrench (article no. 709S10=2) for socket screws (article no. 503F3).

Consisting of
- Template for inner socket (article no. 13E191)
- Casting template for outer socket (article no. 13E192)
- Lamination disc, serrated (article no. 507S15)
- Socket screw with Allen head (article no. 503F3)
- Sensitivity adjustment tool (article no. 13E80)

Electrode accessories
Article no. 13E201



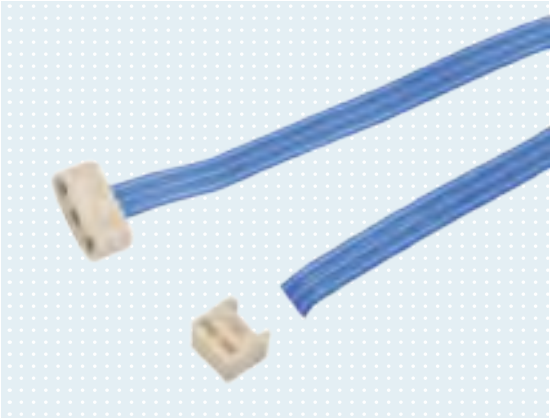
For vacuum-formed inner sockets with electrode (article no. 13E200). Only available as a set. The electrode mounting brackets and setting nuts (article no. 29C5=M4X9) can also be ordered individually.

Consisting of
- One template for the inner and outer socket each
- Lamination dummy for electrode mounting bracket
- Electrode mounting bracket, beige (article no. 13E172)
- Setting nut (article no. 29C5=M4X9)

Electrode mounting bracket set
Article no. 13E135

The electrode mounting bracket set is intended for positioning and assembling MyoBock electrodes on the interim plaster or ThermoLyn socket (article no. 616T52 or 616T53), and is suitable for electrodes (article no. 13E200).

Batteries and battery chargers with accessories



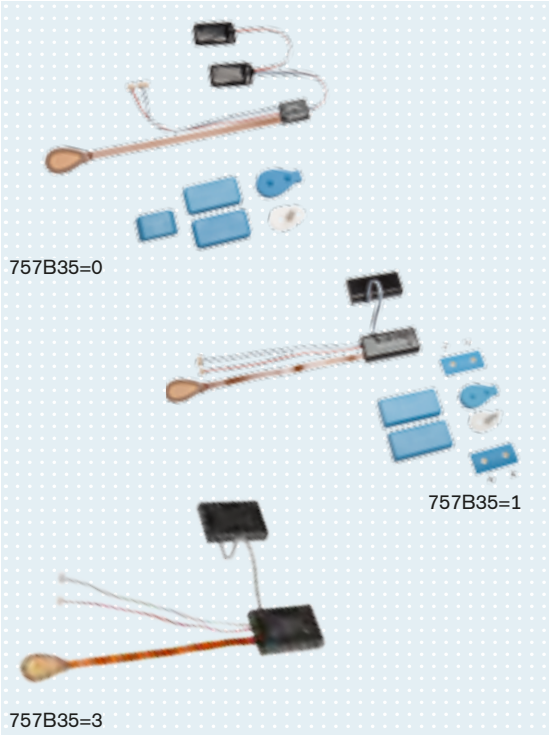
Electrode cable with straight plug and plug connector

Article no. 13E129

Electrode cable to connect the electrode (article no. 13E200 / 13E202), control elements (article no. 9X52, 9X53 and 9X54) and elbow (article no. 12K12).

Article no.	Length
13E129=G100	100 mm
13E129=G300	300 mm
13E129=G600	600 mm
13E129=G1000	1,000 mm

The 13E121 plug connector is included in the scope of delivery!



MyoEnergy Integral

Article no. 757B35=*

The MyoEnergy Integral (article no. 757B35=*) is an integrated power supply system made up of several components. The charging receptacle has contacts for the battery, indicates the current charge level and allows the prosthesis to be switched on and off and opened in an emergency. The communication cable with a 3-pin receptacle is used for the exchange of data. The supply cable establishes the connection between the battery and the respective prosthetic component. The battery consists of two cells with different capacities. Suitable for MyoBock system.

Consisting of

- Lamination dummy – battery
- Lamination dummy – charging receptacle
- Drilling template for charging receptacle

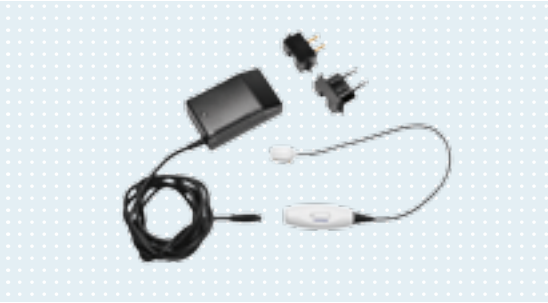
Technical data	Article no. 757B35=0	Article no. 757B35=1	Article no. 757B35=3
Capacity	300 mAh	600 mAh	1,150 mAh
Output voltage	approx. 7.4 V	approx. 7.4 V	approx. 7.4 V
Charging time	approx. 2.5 h	approx. 2.5 h	approx. 2.5 h
Technology	Lithium polymer	Lithium polymer	Lithium-ion
Dimensions approx.	35 x 20 x 20 mm	2x 52 x 25 x 10 mm	2x 52 x 36 x 9 mm

You can order the dummy set for article no. 757B35=1 under article no. 757Z276=1.
You can order the dummy set for article no. 757B35=3 under article no. 757Z276=3.

Batteries and battery chargers with accessories

MyoCharge Integral

Article no. 757L35



647G534

The MyoEnergy Integral integrated into the socket is charged using the MyoCharge Integral (article no. 757L35). Simply place the charging plug against the charging receptacle on the outside of the prosthetic socket. Thanks to an integrated magnet, the charging plug can be easily attached to the charging receptacle. The special contour of the charging receptacle and charging plug assures the quick, reliable positioning of the two components to each other. LEDs indicate the readiness of the battery charger and the current charge level.

Technical data

Operating temperature	0 to +60 °C
Storage temperature	-20 to +60 °C
Supply voltage	100–240 V
Mains frequency	50–60 Hz

- The MyoCharge Integral can be used for all versions of the MyoEnergy Integral (article no. 757B35=0, 757B35=1 and 757B35=3).
- The power supply (article no. 757L16-2) is included in the scope of delivery!

EnergyPack

Article no. 757B2*

647H356

The EnergyPack is suitable for integration into all socket types of the MyoBock system, even in case of long residual limbs. Compared to Ni-Cd batteries, Li-ion batteries have a lower self-discharge level, higher cell voltage and greater capacity. They have no memory effect.

Technical data	Article no. 757B20	Article no. 757B21
Capacity	900 mAh	800 mAh
Charging time (full charge)	approx. 3.5 h	approx. 3 h
Technology	Lithium-ion	Lithium-ion
Weight	65 g	51 g

- Can only be used for MyoBock adult system.
- The following colours are available: -3 corresponds to black, -2 corresponds to colour 11, no colour code corresponds to colour 4

Li-ion charger

Article no. 757L20

647H357

Li-ion charger for charging one or two EnergyPacks (article no. 757B20/757B21). Housing made of impact resistant plastic material, including power supply (article no. 757L16-2) with EU and additional US plug. The design conforms to recommended standards, protection class II.

Technical data

Operating temperature	0 to +50 °C
Mains frequency	47–63 Hz
Supply voltage	100–240 automatic adjustment V/AC
Charging time for EnergyPacks	Approx. 3.5 h (757B20) 3 h (757B21)

Batteries and battery chargers with accessories

647H482

X-ChangePack

Article no. 757B15

The X-ChangePack is suitable for integration into all socket types, even in case of long residual limbs. In comparison with Ni-Cd batteries, NiMh batteries have a considerably higher capacity with the same installed size. Recommended especially for retrofitting existing 6 volt prosthesis systems. Operating old prosthesis systems without energy management therefore does not pose any risk (the Ottobock 6-volt system is not suitable for operation with Li-ion batteries).

Technical data

Capacity	550 mAh
Nominal voltage	6 V
Dimensions (L x W x H)	81 x 28 x 16 mm
Technology	Nickel metal hydride
Weight	77 g

- Only use the pulse charger (article no. 757L14) for charging the X-ChangePack (article no. 757B15).
- Can only be used for MyoBock adult system.

647G260

Pulse charger

Article no. 757L14

Pulse charger for simultaneously charging one or two X-ChangePacks (article no. 757B15). Housing made of impact and break resistant plastic material, including power supply (article no. 757L16-2) with exchangeable EU and US plugs. The design conforms to recommended standards, protection class II.

Technical data

Operating temperature	0 to +40 °C
Dimensions (L x W x H)	130 x 70 x 45 mm
Supply voltage range	100 – 240 V / AC
Mains frequency	40 – 70 Hz
Charging current for 757L14	Pulsed medium direct charging current, approx. 70 mA, reduction to trickle charging
Charging time (for full charge)	approx. 10 h
Weight	220 g

Batteries and battery chargers with accessories

Battery receptacle set
Article no. 757Z184=1

Battery receptacle set for EnergyPack (article no. 757B20).

Consisting of
- Battery receptacle (article no. 757Z185=1)
- Locking lever (article no. 757Z186)
- Casting template (article no. 757Z187=1)
- Foil template (article no. 757Z189=1)

647H369

Battery receptacle
Article no. 757Z185=1

Battery receptacle without locking lever for EnergyPack (article no. 757B20).

Battery receptacle set
Article no. 757Z184=2

Battery receptacle set with screw clamp connection for quick removal from socket. With integrated connection sockets for electrodes, hand cables or for connection cables (article no. 757P41 and 757P39) for connecting to the MyoBoy.

Consisting of
- Battery receptacle (article no. 757Z185=2)
- Locking lever (article no. 757Z186)
- Casting template (article no. 757Z187=1)
- Foil template (article no. 757Z189=1)
- Plug (article no. 757Z202)
- Set screw (article no. 506G1=M3X10)

Battery receptacle
Article no. 757Z185=2

Battery receptacle with screw clamp connection, without locking lever, for EnergyPack (article no. 757B20). Notice: Please use the 757P41 connection cable here!

Consisting of
- Plug (article no. 757Z202)
- Set screw (article no. 506G1=M3X10)

Batteries and battery chargers with accessories

647H369

Battery receptacle set

Article no. 757Z190=1

Battery receptacle set for EnergyPack (article no. 757B21).

Consisting of

- Battery receptacle (article no. 757Z191=1)
- Locking lever (article no. 757Z186)
- Casting template (article no. 757Z192=1)

Battery receptacle

Article no. 757Z191=1

Battery receptacle without locking lever, for 757B21 EnergyPack.

647H492

Battery receptacle set

Article no. 757Z190=2

With screw clamp connection for quick removal from socket. Integrated connection sockets for electrodes, hand cables or connection cables (article no. 757P41 and 757P39) for connecting to the MyoBoy. For EnergyPack (article no. 757B21).

Consisting of

- Battery receptacle (article no. 757Z191=2)
- Locking lever (article no. 757Z186)
- Casting template (article no. 757Z192=1)
- Foil template (article no. 757Z194=1)
- Plug (article no. 757Z202)
- Set screw (article no. 506G1=M3X10)

Battery receptacle

Article no. 757Z191=2

Battery receptacle with screw clamp connection, without locking lever, for EnergyPack (article no. 757B21). Notice: Please use the 757P41 connection cable here!

Consisting of

- Plug (article no. 757Z202)
- Set screw (article no. 506G1=M3X10)

Batteries and battery chargers with accessories

Locking lever
Article no. 757Z186

Locking lever for battery receptacle (article no. 757Z184 and 757Z190).

Locking lever
Article no. 757Z195

Locking lever for bilateral amputees with enlarged release lever for increased user comfort.

Battery receptacle set
Article no. 757Z103=1

Battery receptacle set for X-ChangePack (article no. 757B15).

Consisting of
- Battery receptacle (article no. 757Z104=1)
- Cable retention piece with O-ring (article no. 757Z105=1)
- Casting template (article no. 757Z106=1)
- Spacer insert (article no. 757Z107=1)

647H6

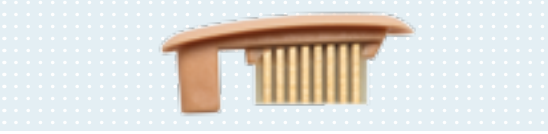
Battery receptacle set
Article no. 757Z103=2

The battery is installed 2.5 mm deeper. For X-ChangePack (article no. 757B15).

Consisting of
- Battery receptacle (article no. 757Z104=2)
- Cable retention piece with O-ring (article no. 757Z105=2)
- Casting template (article no. 757Z106=2)
- Spacer insert (article no. 757Z107=2)

Plug
Article no. 757Z202

Notice: Plug for battery compartment with screw connection!



Batteries and battery chargers with accessories

Car charging cable, 12 volt

Article no. 4X74

A MyoEnergy Integral (article no. 757B35=*) or two EnergyPacks (article no. 757B20 / 757B21), X-ChangePacks (article no. 757B15) or interchangeable batteries (article no. 757B13) can be charged via the cigarette lighter socket. Suitable for MyoBock battery chargers (article no. 757L35, 757L20, 757L14 and 757L13).

Universal power supply

Article no. 757L16-2

Universal power supply for the MyoBock battery chargers (article no. 757L35, 757L20, 757L14), with exchangeable EU and US plugs.

Adapter for Australia

Article no. 757S1=AUS

Adapter for Australia. Recommended for travel.

Adapter for Great Britain

Article no. 757S1=GB

Adapter for Great Britain. Recommended for travel.

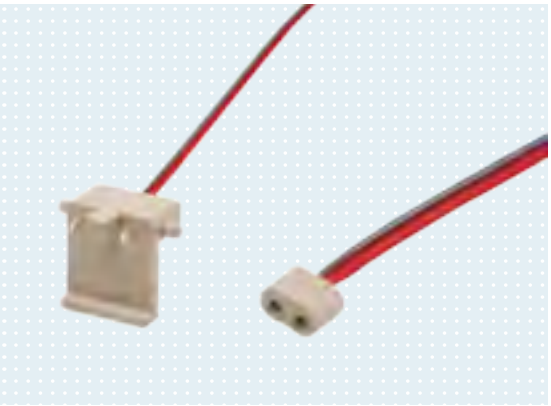
Cables and accessories

Battery connection cable

Article no. 13E51=*

Battery connection cable to connect an X-ChangePack (article no. 757B15) with coaxial plug (article no. 9E169), MyoRotronic (article no. 13E205), the distributor (article no. 13E190 or 13E190=150), electric rotator (article no. 10S17 for switch control), ErgoArm Hybrid plus (article no. 12K44) or ErgoArm Electronic plus (article no. 12K50). Length 200 mm for X-ChangePack (article no. 757B15).

Article no.	Length
13E51=2	200 mm
13E51=4	600 mm

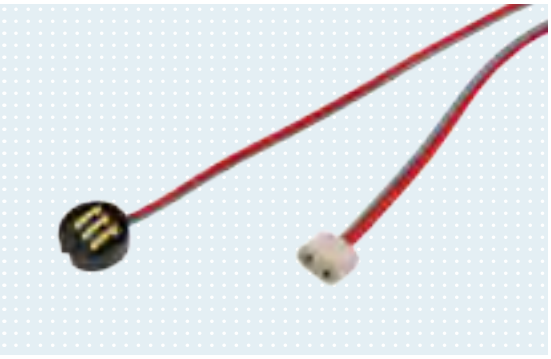


Battery connection cable

Article no. 13E188

Battery connection cable for EnergyPack to connect the battery receptacle (article no. 757Z185=1 or 757Z191=1) with coaxial plug (article no. 9E169), electric rotator (article no. 10S17), MyoRotronic (article no. 13E205) or distributor (article no. 13E190 or 13E190=150).

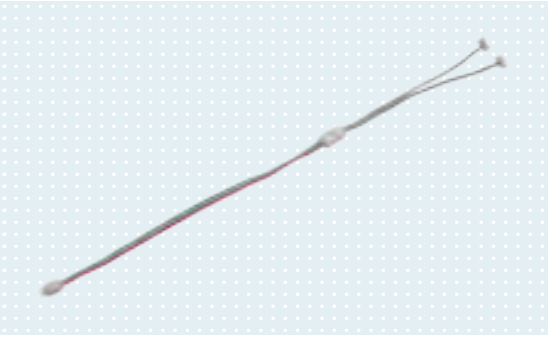
Article no.	Length
13E188=200	200 mm
13E188=600	600 mm



Connection cable

Article no. 757P41

Battery connection cable to connect the battery receptacle (article no. 757Z185=2 or 757Z191=2) and coaxial plug (article no. 9E169) or MyoRotronic (article no. 13E205).



Cables and accessories

Distributor

Article no. 13E190

Distributor to connect the EnergyPack (article no. 757B20 or 757B21), electrodes (article no. 13E200 or 13E202) and system electric hands with hand cable (article no. 9E53), without extension cable.

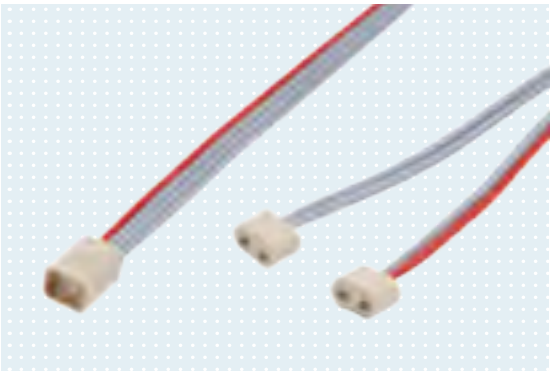
- Apply silicone grease (article no. 633F11) to the bushings prior to connection: provides corrosion protection!

Distributor

Article no. 13E190=150

Distributor to connect the EnergyPack (article no. 757B20 or 757B21), electrodes (article no. 13E200 or 13E202) and system electric hands with hand cable (article no. 9E53) and extension cable. Length 150 mm for EnergyPack.

- Apply silicone grease (article no. 633F11) to the bushings prior to connection: provides corrosion protection!

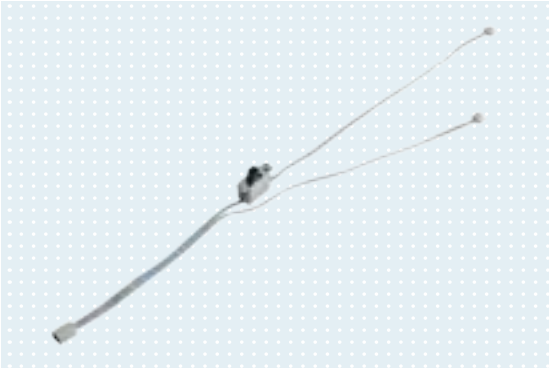


Connection cable

Article no. 13E50

Connection cable to control electric pronation and supination with the electric rotator (article no. 10S17). Used to provide the electrical connection between the electric rotator and harness pull switch (article no. 9X14), cable pull switch (article no. 9X18) or rocker switch (article no. 9X25).

Article no.	Length
13E50=250	250 mm
13E50=1200	1,200 mm



Connection cable with on/off switch

Article no. 13E97

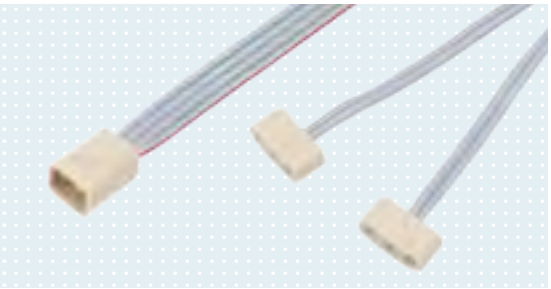
Pronation and supination function can be turned off using the switch. The connection cable is used to provide the electrical connection between the electric rotator (article no. 10S17) and harness pull switch (article no. 9X14), cable pull switch (article no. 9X18) or rocker switch (article no. 9X25).

Article no.	Length
13E97=250	250 mm
13E97=1200	1,200 mm

Cables and accessories

Connection cable

Article no. 13E99=1200



Connection cable to control the opening and closing movements of the system electric hand (article no. 8E38=9, 8E38=7, 8E38=8) or system electric Greifer (article no. 8E33=*). The connection cable is used for the electrical connection between the coaxial plug or electric rotator and harness pull switch (article no. 9X14), cable pull switch (article no. 9X18), rocker switch (article no. 9X25) or pressure switch (article no. 9X37). (Length: 1,200 mm).

Extension cable

Article no. 9E185

Extension cable to extend the hand cable of the system electric hand (article no. 8E39, 8E41, 8E44) or system electric Greifer (article no. 8E34) and connect to the battery receptacle (article no. 757Z185=2 or 757Z191=2).

Article no.	Length
9E185=30	300 mm
9E185=40	400 mm
9E185=50	500 mm

- Apply silicone grease (article no. 633F11) to the cable bushings prior to connection.

Control elements

647H475

Control element

Article no. 9X50 / 9X51

The linear control element (article no. 9X50) for installation in a harness system allows continuous, proportional control of prosthetic components using harnesses. The 4-stage control element (article no. 9X53) allows for proportional control of prosthetic components at four different speed levels using harnesses. In combination with the DynamicArm (article no. 12K100), it offers the possibility to switch specifically between the various system components.

Technical data

Cable travel	8 mm
Max. actuating force	10 N
Weight	6 g

Connection cable (article no. 13E129=G*) see page 28.

647H485

Control element

Article no. 9X52 / 9X53

The liner control element (article no. 9X52) for installation between the outer and inner socket of the prosthesis allows continuous, proportional control of prosthetic components using harnesses. The 4-stage control element (article no. 9X53) allows for proportional control of prosthetic components at four different speed levels using harnesses. In combination with the DynamicArm (article no. 12K100), it offers the possibility to switch specifically between the various system components.

Technical data

Cable travel	8 mm
Max. actuating force	10 N
Weight	11 g

Connection cable (article no. 13E129=G*) see page 28.

647G400

Harness pull switch

Article no. 9X14

The harness pull switch (weight: 19 g) for use within a harness or as a cable pull switch, is used to control the electric rotator (article no. 10S17), system electric hand (article no. 8E38=7, 8E38=8, 8E38=9 and 8E12) or system electric Greifer (article no. 8E33=7 and 8E33=9).
The control cables can be connected after loosening the cover.
Functional sequence: off – function 1 – off – function 2.

Scope of delivery

- 4 cap screws (article no. 501T16=M2X6)

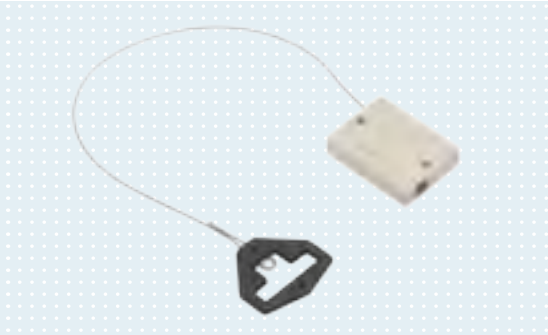
Connection cable see page 92.

Control elements

Cable pull switch

Article no. 9X18

The cable pull switch (weight: 17 g) with steel cable, bow and wedge lock is for standard applications. The switch housing is attached to the socket with screws and the steel cable is connected to the harness or another pull cable so that the electric rotator (article no. 10S17), system electric hand (article no. 8E38=7, 8E38=8, 8E38=9 and 8E12) or system electric Greifer (article no. 8E33=*) can be controlled. Functional sequence: off – function 1 – off – function 2.



647G401

Scope of delivery

- 2x oval head screws (article no. 501S46=M3X5)
- 2x oval head screws (article no. 501S46=M3X8)

Connection cable see page 92 and 93.

Rocker switch

Article no. 9X25

Rocker switch with four-conductor flat cable coming out the side, with female connector, for controlling the electric rotator (article no. 10S17), system electric hand (article no. 8E38=7, 8E38=8 and 8E12), system electric Greifer (article no. 8E33=*).

647G402

Connection cable

- For opening and closing movements: connection cable (article no. 13E99)
- For pronation and supination: connection cable (article no. 13E50 or article no. 13E97)

Scope of delivery

- Oval head screw (article no. 501S46=M2X8 and article no. 501S46=M2X5)

Connection cable see page 84 and 85.

Pressure switch

Article no. 9X37

Pressure switch for controlling the system electric hand (article no. 8E38=*), system electric Greifer (article no. 8E33=*) or electric rotator (article no. 10S17) in combination with the MyoRotronic (article no. 13E205). The switch's special feature allows the separate adjustment of both control points.

647H71

Scope of delivery

- Oval countersunk head screw (article no. 501S75=M2X8 and article no. 501S75=M2X5)

Connection cable

- Use the connection cable (article no. 13E99) for opening and closing movements.

Connection cable (article no. 13E99=1200), see page 93.

Accessories

Tube valve for elevated vacuum socket

Article no. 12V10

In combination with the MyoBock electrode (article no. 13E202), the tube valve creates an airtight socket seal.

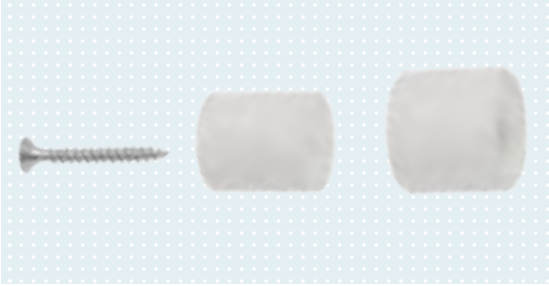
- The PVC connection tube (article no. 99B13) is already included in the scope of delivery.

PVC connection tube

Article no. 99B13

The PVC connection tube serves as a connection channel between the inner and outer sockets.

Article no.	Colour	Diameter
99B13=16	Beige	16 mm
99B13=16-7	Black	16 mm
99B13=21	Beige	21 mm
99B13=21-7	Black	21 mm

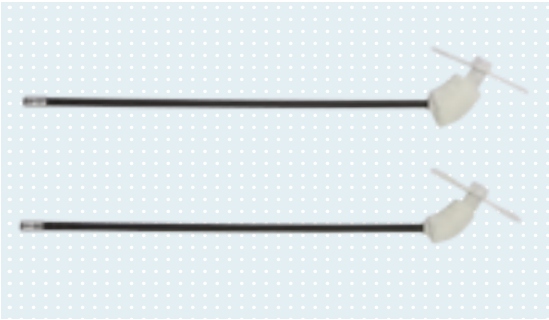


Tube dummies

Article no. 99B83

The tube dummies are used for fabricating vacuum-formed inner sockets.

Article no.	Diameter
99B83=16	16 mm
99B83=21	21 mm



Magnetic centring aid

Article no. 711M77

The magnetic centring aid allows technicians to precisely determine the centre point of the PVC connection tube outside the outer socket in order to then mill the cut-out exactly. The centring aid is also highly elastic, which permits straightforward positioning in the inner socket.

- Please note that the 711M77=1 is intended for the 7.4 V children's system and the 711M77=2 for the MyoBock system and Axon-Bus prosthetic system.

Myo software

PAULA

Article no. 646C52

PAULA is a comprehensive software package which provides essential support for fabricating Upper Limb prostheses. The software assists O&P professionals with the planning, socket design and construction of myoelectrically controlled prostheses, hybrid prostheses, cable-controlled prostheses and passive prostheses. The integration into the Ottobock Data Station provides a common platform, offering O&P professionals a familiar user interface.

- If you have questions related to installation, please contact our O&P Hotline employees!

646D315 646G461

MyoBoy

Article no. 757M11=X-Change

The MyoBoy provides optimum support for the O&P professional and patient when training muscle activity and for the realistic simulation of the MyoBock systems. The data that are collected allow the selection of the most suitable control system for the individual prosthesis.

Consisting of

- Quick reference guide (article no. 647G265=1)
- Ground electrode (article no. 757Z18)
- Electrode adapter (article no. 757P44)
- Electrode armband (article no. 757Z174)
- Screwdriver
- USB cable
- Carrying case

Optional

- Test adapter (article no. 757P23)
- MyoBoy communication cable (article no. 757P39)

Myo software

BionicLink

Article no. 60X5

The BionicLink (article no. 60X5) supports wireless data communication between Ottobock products with a Bluetooth interface (e.g. DynamicArm) and a PC with USB port or USB hub.

The BionicLink is equipped with two LEDs

- The green LED indicates that the device is ready for use
- The blue LED indicates that a proper connection has been established between the product and the PC

A proper connection between the Ottobock product and a PC can only be established using corresponding Ottobock software products (e.g. ElbowSoft).

647G341

ElbowSoft

Article no. 646C42

The “ElbowSoft” software is to be used exclusively for adjusting the DynamicArm and any Ottobock system components connected to it: system electric hands (article no. 8E38=*), system electric Greifers (article no. 8E33=*), electric rotator (article no. 10S17), within the scope of an exoprosthetic device. Participation in Ottobock product training for the DynamicArm software is mandatory prior to using the product for the first time. To qualify for software updates, additional product training courses may be necessary.

MyoSelect

Article no. 757T13

The MyoSelect (article no. 757T13) is used to identify and adjust MyoBock components, such as system electric hands, system electric Greifers, the MyoRotronic and ErgoArm Electronic plus. The MyoSelect is connected to the MyoBock component and then displays information on the type of component and the currently selected control mode on the integrated display. The multifunction button on the side can be used to select and adjust alternative control devices. It is also possible to adjust the speed of the MyoHand VariPlus Speed, SensorHand Speed and DMC VariPlus system electric Greifer to the individual needs of the patient using the MyoSelect. Please note that in order to be able to make adjustments with the MyoSelect, the components must be equipped with a black coding plug first! Components such as the MyoHand VariPlus Speed and DMC VariPlus system electric Greifer are only designed for use with the MyoSelect (article no. 757T13)!

Myo software

MyoBoy communication cable

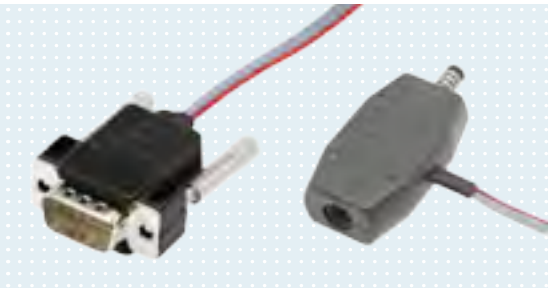
Article no. 757P39

The MyoBoy communication cable connects the MyoBoy and battery receptacle (article no. 757Z185=2 or 757Z191=2), and permits signal measurement while the complete prosthesis is in use by the patient.

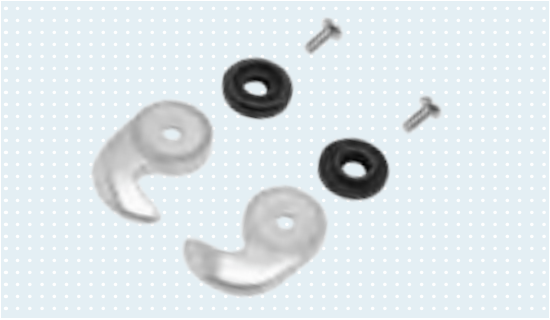
Test adapter

Article no. 757P23

Test adapter for the system electric hand (article no. 8E38) and system electric Greifer (article no. 8E33).



Myo service parts

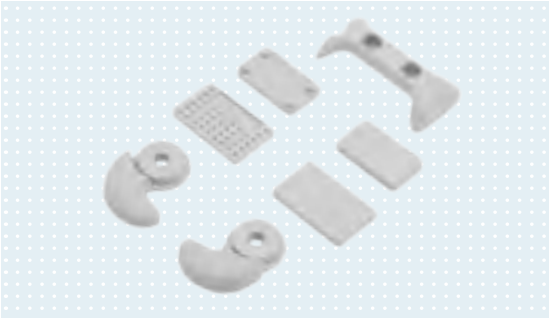


Fingertip set

Article no. 9S138

Finger tip set for use without tip padding.

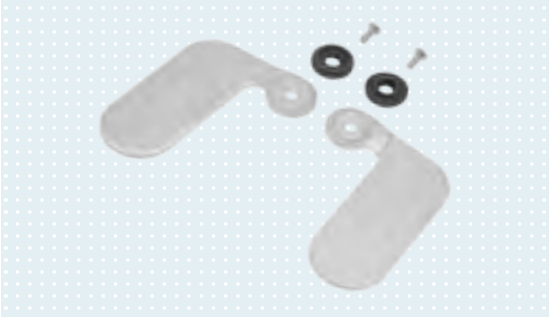
Consisting of
- Fingertip (pair)
- Fingertip blank pair (501S54=M3.3x8)
- Oval head countersunk screw (2 pieces)



Rubber gripping pad set

Article no. 9S145

Consisting of
- Tip padding pair (9S146)
- Rubber pad pair (9S147=1PAA)
- Rubber pad pair (9S147=2PAA)
- Padded band (9S148)
- Fingertip blank set (9S149)



Fingertip blank set

Article no. 9S149

The fingertip blank set is used for subsequent adaptation to special tasks.

Consisting of
- Stamped part (2 pieces)
- Fingertip blank pair (501S54=M3.3x8)
- Oval head countersunk screw (2 pieces)

Fingertip (pair)

Article no. 9S234=PAA

Fingertip pair for use with tip padding.

Consisting of
- Fingertip blank pair (501S54=M3.3x8)
- Oval head countersunk screw (2 pieces)

Myo service parts

Fingertip (pair)
Article no. 9S278=PAA

Fingertip pair for use without tip padding.

Consisting of
- Fingertip blank pair (501S54=M3.3x8)
- Oval head countersunk screw (2 pieces)

Battery cover
Article no. 9S312

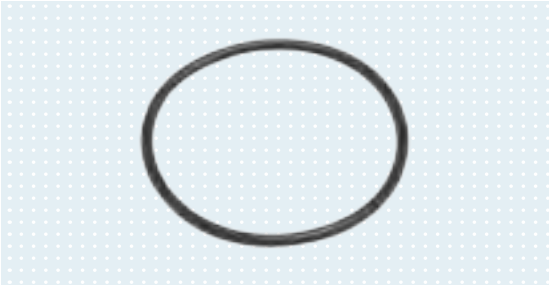
Not illustrated

Padded band
Article no. 9S148-1

Not illustrated

Notched plate with inner gear teeth
Article no. 11S6

Myo service parts



Thrust washer
Article no. 11S7

Washer
Article no. 11S27

Friction ring with inner gear teeth
Article no. 11S30

Notes

Axon-Bus prosthetic system

Perfect use of precision technology

The Axon-Bus prosthetic system is a new system for transradial and transhumeral prostheses. Axon stands for Adaptive eXchange Of Neuroplacement data. The Axon-Bus itself is a new Ottobock development for the field of exoprosthetics. It was derived from safety-related bus systems in the aviation and automotive industries and represents a true innovation from our Research and Development department.

The advantage is that it constitutes an optimised, self-contained data transmission system. The individual components communicate with each other perfectly, eliminating losses in terms of data transmission, speed and functionality. This results in a clear plus in safety and reliability for the user. This is achieved by a significant reduction in sensitivity to outside interference in comparison with conventional systems. In combination with the Michelangelo Hand, the Axon-Bus prosthetic system offers more degrees of freedom than ever before. The user benefits from enhanced hand functionality. The modular prosthesis system can be expanded with additional Axon-Bus components in future.

On the following pages you will find

- Axon-Bus terminal devices
- Axon-Bus prosthetic gloves
- Accessories Axon-Bus system
- Rotation
- Axon-Bus elbow components
- Axon-Bus battery management
- Axon-Bus control elements
- Axon-Bus software
- Tool for installation of the Axon-Bus prosthetic system

646D501
646D592
646D593
646T334-EN

647G587

Michelangelo Hand

Article no. 8E500

The Michelangelo Hand features complex gripping kinematics, an attractive natural appearance and low weight. Actively driven elements are the thumb, index finger and middle finger, while the ring finger and little finger passively follow the other fingers. The thumb drive permits electronic positioning. Rotating the thumb outward creates a wide open palm, so that additional movement options are possible. This results in seven different hand positions. The Michelangelo Hand can be combined with the active AxonRotation. This rotation unit assists users in numerous two-handed activities in everyday life and at work. Thanks to the flexible wrist joint mode, the various grip types of the Michelangelo Hand and the active AxonRotation, compensating body movements are reduced to a minimum. The Michelangelo Hand is worn with the AxonSkin prosthetic glove.

Article no.	Side	Size	User
8E500=L-M	Left (L)	7 ¾	Women, men
8E500=R-M	Right (R)	7 ¾	Women, men

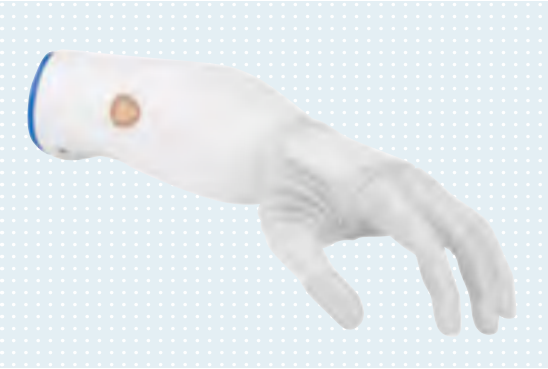
Technical data

Operating voltage	11.1 V
Operating temperature	-10 to +60 °C
Storage temperature	-20 to +40 °C
Relative humidity max.	80% non-condensing
Max. opening width	120 mm
Max. gripping force in Opposition Mode	70 N
Max. gripping force in Lateral Mode	60 N
Max. gripping force in Neutral Mode	15 N
Maximum speed	325 mm/sec
Weight	520 g

Axon-Bus terminal devices

Michelangelo Hand Transcarpal

Article no. 8E550



For users with long residual limbs and a transcarpal amputation level. The numerous functions of the Michelangelo Hand are also featured in this product version. The available installation space for the required technical components was very small for the Michelangelo Hand Transcarpal, and led to the development of a new, space-saving design concept. The compact drive unit is integrated into the palm of the hand, making the overall length without the AxonWrist very short as well. The feed-through for the Axon signal cables was adjusted accordingly, and the hand shell was adapted as well. The new lamination ring allows the O&P professional to position the hand by +/-15°.

Article no.	Side	Size	User
8E550=L-M	Left (L)	M	Women, men
8E550=R-M	Right (R)	M	Women, men

Technical data

Operating temperature	-10 to +60 °C
Max. opening width	120 mm
Max. gripping force in Opposition Mode	70 N
Max. gripping force in Lateral Mode	60 N
Max. gripping force in Neutral Mode	15 N
Maximum speed	325 mm/sec
Weight	460 g

646D501
646D592
646D593
646D553
646D646

- Notice: The 711M116 adapter is needed one time to put on the gloves.

AxonHook

Article no. 8E600

As a complement to the Michelangelo Hand (article no. 8E500), the AxonHook is designed to meet the performance needs of the most demanding users by increasing the number of functional tasks that are supported. This powerful and rugged terminal device for manual tasks ideally expands the functionality of the existing Michelangelo Hand. The integrated AxonWrist allows users to easily switch between the Michelangelo Hand and the AxonHook. All wrist functionality of the Michelangelo Hand is implemented in the AxonHook as well. Combined with the AxonRotation or also the AxonArm Ergo for above-elbow prostheses, the AxonHook is the preferred choice for highly active prosthesis users.

Article no.	Side
8E600=L	Left (L)
8E600=R	Right (R)

Technical data

Max. opening width	130 mm
Max. gripping force approx.	110 N
Weight	400 g

- Notice: The AxonHook cannot be combined with the Michelangelo Hand Transcarpal.

Axon-Bus prosthetic gloves

646D646 647G596

AxonSkin Natural

Article no. 8S501/8S502

The AxonSkin glove serves as structural protection for the Michelangelo prosthetic hand and creates a natural appearance for the user. It is intended exclusively for use with Ottobock's Michelangelo Hand.
Please use the 646M47 Skin Natural colour swatches to determine the colour. The Michelangelo Hand is locked with the help of the mounting tool (article no. 711M64) and mounting tool (article no. 711M1) in order to apply and remove the prosthetic glove.

Article no.	Side	Colour	User
8S501=L-M2	Left (L)	2	Men
8S501=L-M4	Left (L)	4	Men
8S501=L-M6	Left (L)	6	Men
8S501=L-M8	Left (L)	8	Men
8S501=L-M11	Left (L)	11	Men
8S501=L-M14	Left (L)	14	Men
8S501=L-M16	Left (L)	16	Men
8S501=R-M2	Right (R)	2	Men
8S501=R-M4	Right (R)	4	Men
8S501=R-M6	Right (R)	6	Men
8S501=R-M8	Right (R)	8	Men
8S501=R-M11	Right (R)	11	Men
8S501=R-M14	Right (R)	14	Men
8S501=R-M16	Right (R)	16	Men

Article no.	Side	Colour	User
8S502=L-M2	Left (L)	2	Women
8S502=L-M4	Left (L)	4	Women
8S502=L-M6	Left (L)	6	Women
8S502=L-M8	Left (L)	8	Women
8S502=L-M11	Left (L)	11	Women
8S502=L-M14	Left (L)	14	Women
8S502=L-M16	Left (L)	16	Women
8S502=R-M2	Right (R)	2	Women
8S502=R-M4	Right (R)	4	Women
8S502=R-M6	Right (R)	6	Women
8S502=R-M8	Right (R)	8	Women
8S502=R-M11	Right (R)	11	Women
8S502=R-M14	Right (R)	14	Women
8S502=R-M16	Right (R)	16	Women

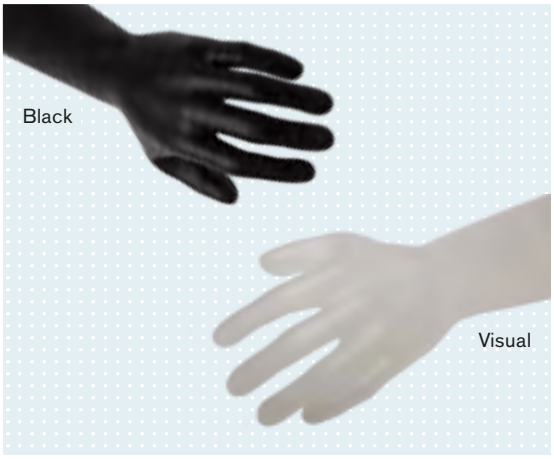
Axon-Bus prosthetic gloves

AxonSkin Visual / AxonSkin Black

Article no. 8S500

The AxonSkin Visual and AxonSkin Black are two other versions of a PVC glove for the Michelangelo Hand. The Michelangelo Hand is locked with the help of the mounting tool (article no. 711M64) and mounting tool (article no. 711M1) in order to apply and remove the prosthetic glove.

Article no.	Side	Colour
8S500=L-M0	Left (L)	Visual
8S500=R-M20	Left (L)	Black
8S500=R-M0	Right (R)	Visual
8S500=R-M20	Right (R)	Black



AxonSkin Silicone

Article no. 8S511

The first silicone glove for the Michelangelo Hand. It has a highly natural appearance thanks to the hand-coloured replication of the fingernails and knuckles. The AxonSkin Silicone is very low-maintenance and barely soils, so that simple cleaning with soap and water is usually sufficient.

Article no.	Side	Colour	User
8S511=L-M2	Left (L)	2	Men
8S511=L-M4	Left (L)	4	Men
8S511=L-M6	Left (L)	6	Men
8S511=L-M8	Left (L)	8	Men
8S511=L-M10	Left (L)	10	Men
8S511=L-M12	Left (L)	12	Men
8S511=L-M14	Left (L)	14	Men
8S511=R-M2	Right (R)	2	Men
8S511=R-M4	Right (R)	4	Men
8S511=R-M6	Right (R)	6	Men
8S511=R-M8	Right (R)	8	Men
8S511=R-M10	Right (R)	10	Men
8S511=R-M12	Right (R)	12	Men
8S511=R-M14	Right (R)	14	Men

- Attention: Colours deviate from Skin Natural. For exact determination, please use the 646M72 colour sample ring for silicone gloves.
- Notice: The AxonSkin Silicone cannot be combined with the Michelangelo Hand Transcarpal.

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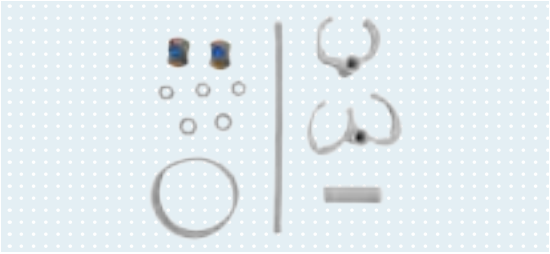
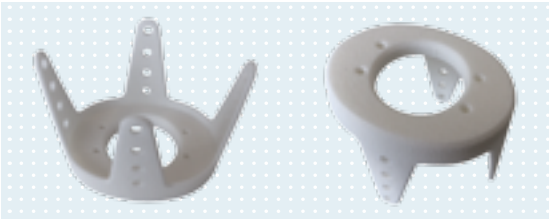
Axon-Bus prosthetic system accessories



Mounting set

Article no. 757Z501

The mounting set (article no. 757Z501) includes various components which allow the technician to attach the AxonEnergy Integral and AxonMaster to the socket.
Please note that this article is already included in the scope of delivery of the Axon-Bus prosthetic system.



Michelangelo socket attachment block

Article no. 757Z504

The Michelangelo socket attachment block (article no. 757Z504) can be used for trial fittings with a ThermoLyn soft outer socket. The socket attachment block is used as a alternative to the lamination ring (article no. 10S500) and serves to secure the Michelangelo Hand.

Michelangelo Hand dummy

Article no. 757Z505

The technician can use the dummy to determine the alignment and length of the Michelangelo prosthesis while taking measurements.

Donning spray

Article no. 640F18

The donning spray for silicone liners and prosthetic gloves (silicone or PVC) is required among other things for donning and removal.

Article no.	Contents
640F18	90 ml
640F18=900	900 ml (refill)

Pump sprayer

Article no. 640F13

The user should always keep a pump sprayer filled with special cleaner for Ottobock prosthetic gloves handy in order to be able to use the cleaner immediately in case of soiling (net contents: 90 g).

- This container is empty on delivery!

Axon-Bus prosthetic system accessories | rotation

Special cleaner
Article no. 640F12

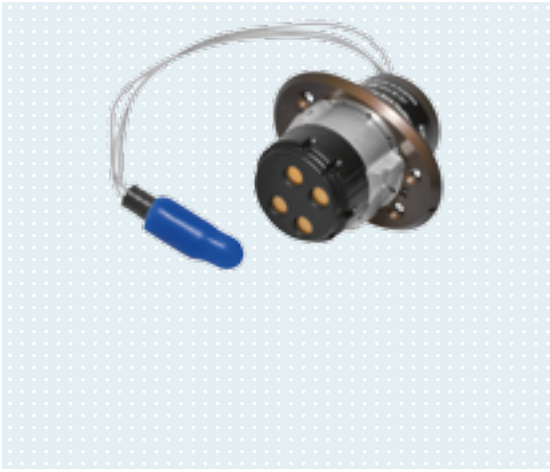
In case of heavy soiling, the special cleaner for prosthetic gloves should be applied immediately (net contents: 460 g).

AxonRotation
Article no. 9S503

The active rotation feature is equipped with proportional control so the system is sensitive and functions exactly with the muscle signals. Proportional control is possible for both movements, rotation and the gripping function of the Michelangelo Hand. Rotation assists users in numerous bimanual (two-handed) activities in everyday life and at work.

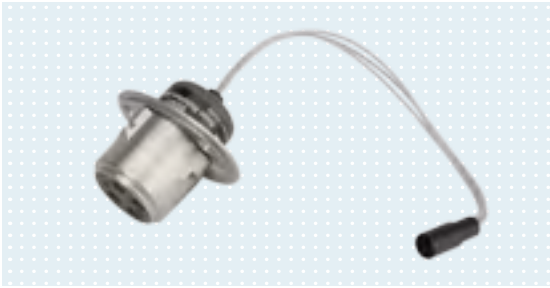
Technical data

Pronation/supination	160° / 160°
Idle speed	25 RPM
Max. torque	1.5 Nm
Weight	140 g



AxonRotation Adapter
Article no. 9S501

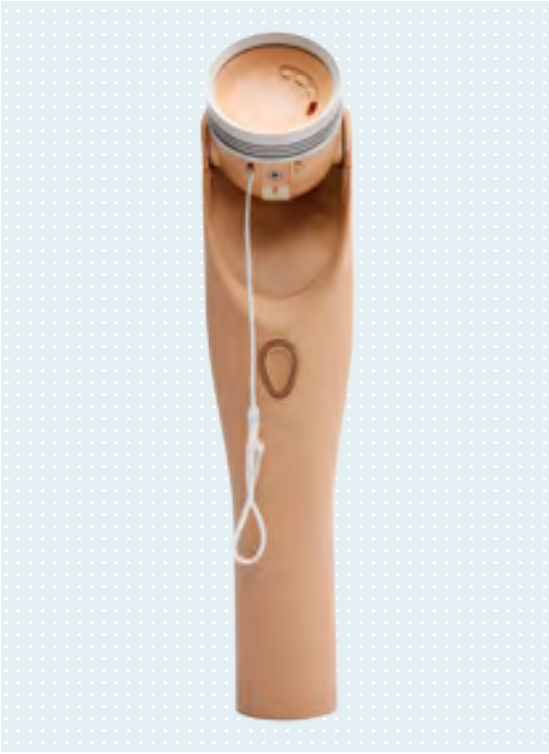
The AxonRotation Adapter (article no. 9S501) in combination with an Axon-Bus terminal device such as the Michelangelo Hand (article no. 8E500), facilitates a fitting with components of Ottobock's modular Axon-Bus prosthetic system. The AxonRotation Adapter (article no. 9S501) allows passive pronation/supination (360°) (weight: approx. 90 g).



Lamination ring
Article no. 10S500

The lamination ring (article no. 10S500) is the connecting element between the socket and the Michelangelo Hand. The technician integrates this lamination ring into the socket laminate.
Please note that this article is already included in the scope of delivery of the Axon-Bus prosthetic system.

Axon-Bus elbow components



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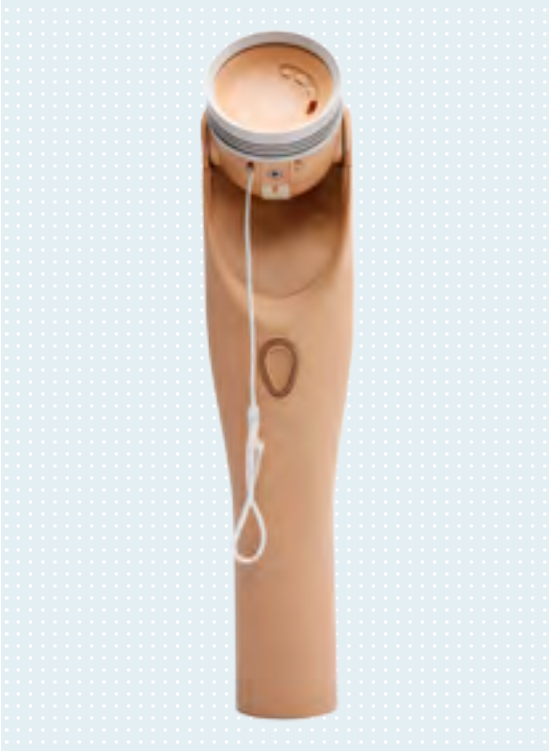
AxonArm Ergo

Article no. 12K501

With Easy Plug, flexion aid (AFB), mechanical slip-stop function, upper arm rotation joint, adjustable friction, elbow ball made of plastic, forearm that can be shortened (length: 305 mm), electronic ratchetless lock.
Passive elbow component with electronic lock that adapts the proven strengths of the familiar ErgoArm (article no. 12K50) for the new Axon-Bus prosthetic system. As a result, all of the advantages of the Michelangelo Hand (extraordinary functionality, natural design and trendsetting technology) are now also available to upper arm amputees.

Article no.	Size	Colour
12K501=M	7 ¾	4
12K501=M-1	7 ¾	11
12K501=M-2	7 ¾	15

- The colour roughly corresponds to glove colour according to the 646M47 colour swatches.
- The battery (article no. 757B501) is already included in the scope of delivery for the elbow.



646D626 647G790

AxonArm Hybrid

Article no. 12K500

This elbow component is especially well suited for use in hybrid prostheses together with the Axon-Bus prosthetic system. As a result, all of the advantages of the Michelangelo Hand (extraordinary functionality, natural design and trendsetting technology) are now also available to upper arm amputees. With Easy Plug, flexion aid (AFB), mechanical slip-stop function, upper arm rotation joint, adjustable friction, elbow ball made of plastic, forearm that can be shortened (length: 305 mm).

Article no.	Size	Colour
12K500=M	7 ¾	4
12K500=M-1	7 ¾	11
12K500=M-2	7 ¾	15

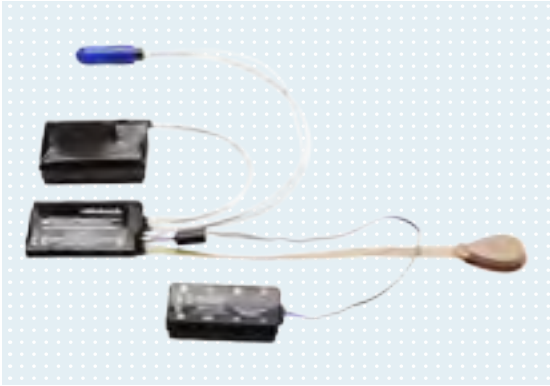
- The colour roughly corresponds to glove colour according to the 646M47 colour swatches.

Axon-Bus battery management

AxonEnergy Integral

Article no. 757B501

The AxonEnergy Integral (article no. 757B501) is used exclusively to provide power to the Axon-Bus prosthetic system. The battery consists of three Li-ion cells. The integrated electronics protect the battery against short circuits, overvoltage, undervoltage and charging outside the allowable temperature range. The Axon-Bus cable with the three-pin receptacle is used to exchange data and connects the respective prosthetic components to the battery. The AxonEnergy Integral (article no. 757B501) may only be used in conjunction with components in Ottobock's Axon-Bus prosthetic system. Only the Axon-Charge Integral (article no. 757L500) may be used for charging.



646D501 647G789

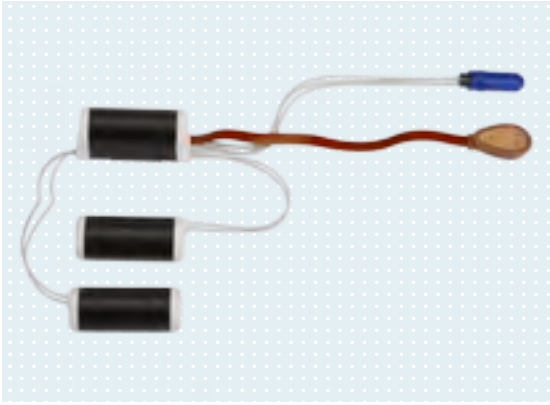
Technical data

Operating temperature	0 to +60 °C
Storage temperature	-20 to +40 °C
Transport temperature	-20 to +40 °C
Relative humidity max.	80% non-condensing
Capacity	1,150 mAh
Approx. output voltage	11.1 V
Approx. charging time	3.5 h
Dimensions (L x W x H)	55 x 35 x 23 mm
Weight	90 g

AxonEnergy Integral

Article no. 757B500

The AxonEnergy Integral (article no. 757B500) is used exclusively to provide power to the Axon-Bus prosthetic system. The battery consists of three Li-ion cells. The integrated electronics protect the battery against short circuits, overvoltage, undervoltage and charging outside the allowable temperature range. The Axon-Bus cable with the three-pin receptacle is used to exchange data and connects the respective prosthetic components to the battery. The AxonEnergy Integral (article no. 757B500) may only be used in conjunction with components in Ottobock's Axon-Bus prosthetic system. Only the Axon-Charge Integral (article no. 757L500) may be used for charging.



646D501 647G592

Technical data

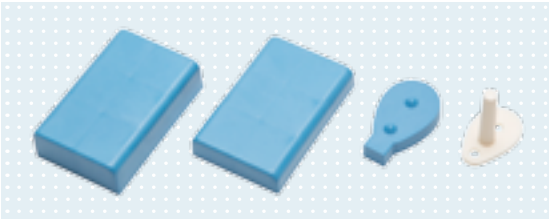
Operating temperature	0 to +60 °C
Storage temperature	-20 to +40 °C
Transport temperature	-20 to +40 °C
Relative humidity max.	80% non-condensing
Capacity	1,500 mAh
Approx. output voltage	11.1 V
Approx. charging time	3.5 h
Dimensions (L x W x H)	75 x 60 x 21 mm
Weight	142 g

Axon-Bus battery management

Lamination dummy set

Article no. 757Z502

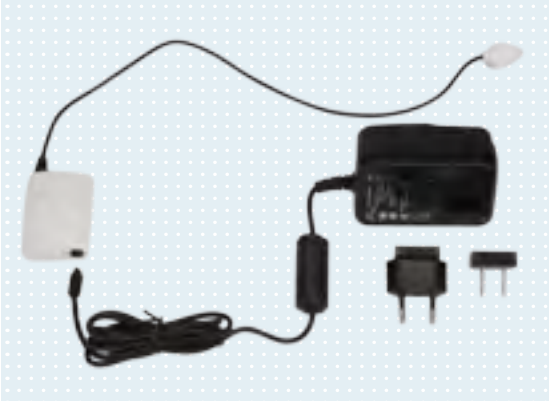
The lamination dummy set (article no. 757Z502) for the AxonEnergy Integral (article no. 757B500) includes dummies for lamination of the outer socket and for the charging receptacle recess.
Please note that this article is already included in the scope of delivery of the Axon-Bus prosthetic system.



Lamination dummy set

Article no. 757Z508

The lamination dummy set (article no. 757Z508) for the AxonEnergy Integral (article no. 757B501) includes dummies for lamination of the outer socket and for the charging receptacle recess. Please note that this article is already included in the scope of delivery of the Axon-Bus prosthetic system.



646D501 647G593

AxonCharge Integral

Article no. 757L500

The AxonCharge Integral (article no. 757L500) is used to charge the AxonEnergy Integral (article no. 757B500 / 757B501) of Ottobock's Axon-Bus prosthetic system. Charging is performed automatically after the charging plug has been connected to the charging receptacle of the AxonEnergy Integral (article no. 757B500 / 757B501). The charging plug is secured to the charging receptacle by the integrated magnet. The special contour of the charging receptacle and charging plug ensures quick, reliable positioning of the two components. LEDs indicate the readiness of the battery charger and the current battery charge level. The AxonCharge Integral (article no. 757L500) is intended solely for charging of the AxonEnergy Integral (article no. 757B500).

Technical data

Operating temperature	0 to +60 °C
Storage temperature	-20 to +40 °C
Transport temperature	-20 to +40 °C
Relative humidity max.	80% non-condensing

Car charging cable

Article no. 4X500

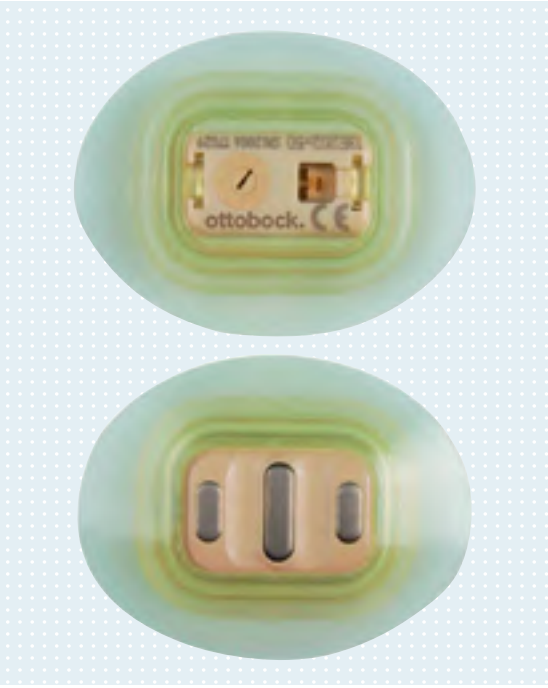
The AxonCharge Mobile (article no. 4X500) is a power supply for 12-volt or 24-volt vehicle power networks (cigarette lighter plug) and, together with the AxonCharge Integral (article no. 757L500), is used to charge the AxonEnergy Integral (article no. 757B500). The car charging cable (article no. 4X500) can be used in a car or mobile home.
Notice: The Axon-Bus prosthetic system must not be used in combination with the 757L16-2 power supply.

Axon-Bus control elements

Suction socket electrode

Article no. 13E202

This generation of electrodes is based on the familiar 13E200 electrode. Embedded into a mounting suspension of elastic material, this electrode creates an airtight seal between the inner socket and outer socket.
If used correctly, the 13E202 suction socket electrode also prevents sweat from penetrating between the outer and inner socket, therefore effectively preventing damage to the electrical and mechanical components caused by corrosion.
The suction socket electrode can not only be used for standard sockets, but is also particularly suitable for application in elevated vacuum sockets. Combining the suction socket electrode with a 12V10 tube valve for an elevated vacuum socket creates a vacuum effect in the socket, ensuring optimal linkage between the residual limb and the socket. As with the 13E200 electrode, state-of-the-art shielding and filtering technologies largely protect the 13E202 suction socket electrode against high frequency interference caused, for example, by mobile phones, walkie-talkies, computers or anti-theft systems in shopping centres so that the correct function of the myoelectrically controlled prosthesis is not affected.
The electrode contacts are made from pure titanium and are therefore suitable for people with allergies as well. The frequency filter's full protection effect will only be provided if the mains frequency and filter frequency are identical.



647G334

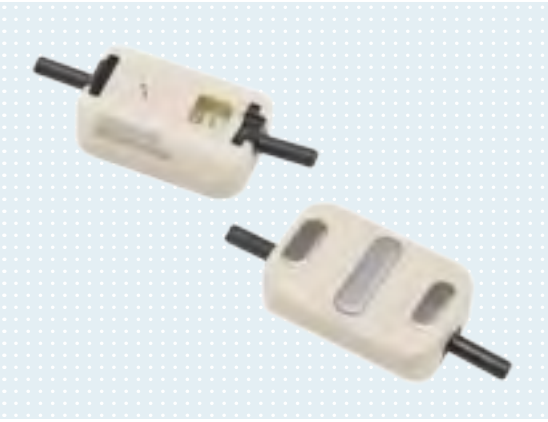
Article no.	HZ	Frequency bandwidth	Room temperature	Operating voltage U
13E202=50	50	90–450 Hz	-15 to +60 °C	4.8–7.2 V
13E202=60	60	90–450 Hz	-15 to +60 °C	4.8–7.2 V

- Use silicone grease (article no. 633F11) to seal the plug connection. Remove any excessive grease after connecting the electrode cable.
- Accessories for vacuum forming inner sockets, see page 244.
- Tube valve (article no. 12V10), see page 96.

Electrode

Article no. 13E200

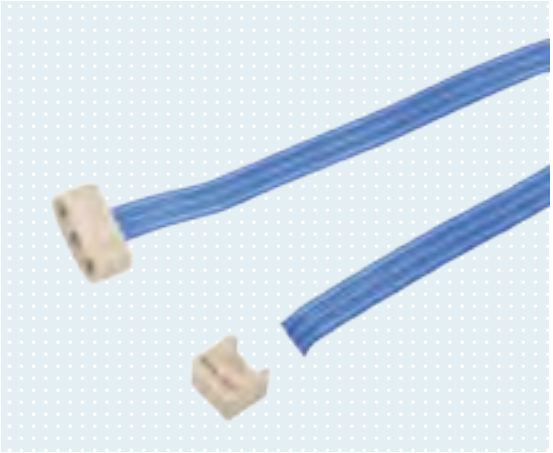
These MyoBock electrodes are particularly sensitive in the range of low muscle signals. The change in amplification now takes place logarithmically, which enables enhanced differentiation of the signal level. Thanks to modern frequency shielding and filtering technologies, they are less sensitive to low and high frequency interferences that are emitted, for example, by mobile phones or shopping centre security systems. The electrode contacts are made from pure titanium and are therefore suitable for people with allergies as well. The electrode accessories (article no. 13E201) are included in the scope of delivery. The frequency filter's full protection effect will only be provided if the mains frequency and filter frequency are identical. The electrode cable connection with IDC termination weighs 4.5 g (27 x 18 x 9.5 mm).



Article no.	HZ	Frequency bandwidth	Room temperature	Operating voltage U
13E200=50	50	90–450 Hz	-15 to +60 °C	4.8–7.2 V
13E200=60	60	90–450 Hz	-15 to +60 °C	4.8–7.2 V

- Use silicone grease (article no. 633F11) to seal the plug connection. Remove any excessive grease after connecting the electrode cable.
- Accessories for vacuum forming inner sockets, see page 244.

Axon-Bus control elements



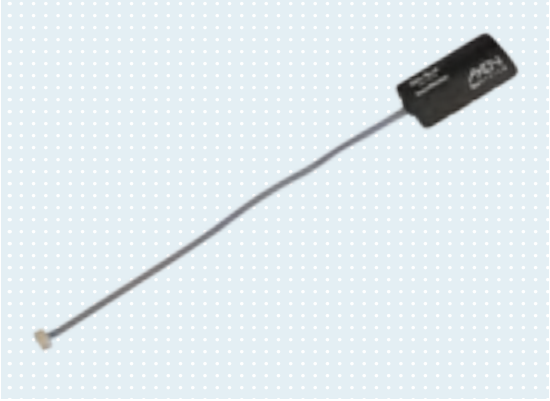
Electrode cable with straight plug and plug connector

Article no. 13E129=G*

Electrode cable to connect the electrode (article no. 13E200/13E202), the control elements (article no. 9X52, 9X53 and 9X54) and the elbow (article no. 12K12).

Article no.	Length
13E129=G100	100 mm
13E129=G300	300 mm
13E129=G600	600 mm
13E129=G1000	1,000 mm

The plug connector (article no. 13E121) is included in the scope of delivery!



646D501 647G590

AxonMaster

Article no. 13E500

The AxonMaster (article no. 13E500) is the central control unit of the Axon-Bus prosthetic system. The AxonMaster samples the patient's control signals and routes them to the corresponding prosthetic components via the Axon-Bus (joint control and power supply connection).
This makes it possible to control the prosthesis and switch between the prosthetic components. The AxonMaster also controls the data communication of the Axon-Bus. The AxonMaster (article no. 13E500) is intended exclusively for exoprosthetic devices for the Upper Limb and serves to control and coordinate all active Ottobock Axon-Bus prosthetic components within the system.

Technical data	
Operating temperature	0 to +60 °C
Storage temperature	-20 to +40 °C
Transport temperature	-20 to +40 °C
Relative humidity max.	80% non-condensing
Power supply	757B500, 757B501
Operating voltage	11.1 V
Dimensions (L x W x H)	53 x 28 x 9 mm
Weight	15 g

Lamination dummy set for AxonMaster

Article no. 757Z503

The technician uses the lamination dummy set (article no. 757Z503) to determine the optimal position of the AxonMaster.
Please note that this article is already included in the scope of delivery of the Axon-Bus prosthetic system.

Axon-Bus software

AxonSoft

Article no. 560X500

646D501 647G591

The AxonSoft software (article no. 560X500=*) is intended exclusively as a tool for adjusting the AxonMaster (article no. 13E500) within the framework of unilateral or bilateral prosthetic fittings with the Michelangelo Hand and the Axon-Bus system components for the Upper Limb. The BionicLink (article no. 60X5) is the only permissible method of data transfer between the system components.

Recommended hardware requirements for a PC with a 32-bit or 64-bit platform

- At least 1 GB free hard drive space
- Graphics card with Open GL support
- Minimum resolution: 1024 x 768 at 96 DPI (higher DPI settings can result in errors in the display, depending on the resolution)
- 32-bit colour depth (16.7 million colours)
- CD-ROM or DVD-ROM drive
- 1 available USB port (if applicable)
- Mouse and keyboard (if applicable)

Minimum PC hardware requirements

- PC with a Pentium III/1 GHz processor, 32-bit (x86)
- 512 MB RAM (working memory)
- 1 GB free hard drive space
- Graphics card with Open GL support
- Resolution: 1024 x 768 at 96 DPI
- 32-bit colour depth (16.7 million colours)
- CD-ROM drive
- 1 available USB port (if applicable)
- Mouse and keyboard (if applicable)

BionicLink

Article no. 60X5

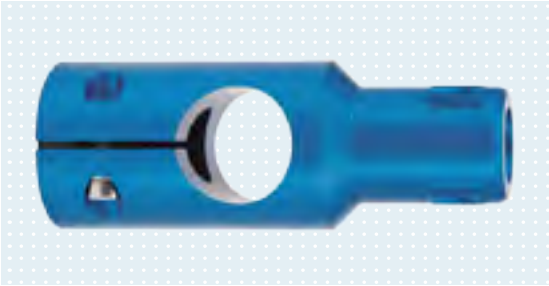
The BionicLink (article no. 60X5) supports wireless data communication between Ottobock products with a Bluetooth interface (e.g. DynamicArm) and a PC with USB port or USB hub.

The BionicLink is equipped with two LEDs

- The green LED indicates that the device is ready for use
- The blue LED indicates that a proper connection has been established between the product and the PC

A proper connection between the Ottobock product and a PC can only be established using corresponding Ottobock software products (e.g. ElbowSoft).

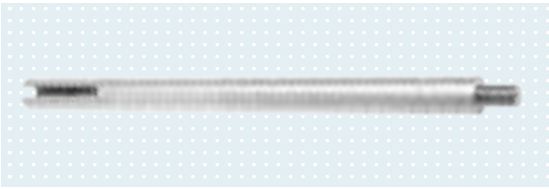
Tools for installation of the Axon-Bus prosthetic system



Mounting adapter for Michelangelo

Article no. 711M64

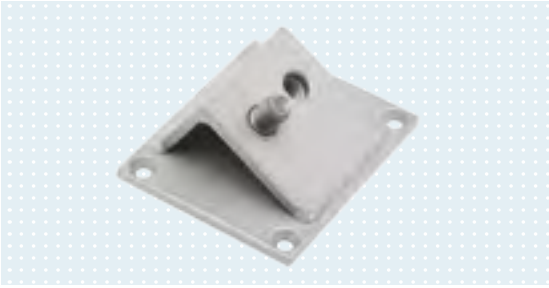
The mounting adapter is essential for the correct application of the AxonSkin glove in order to protect the mechanism of the Michelangelo Hand and for easier handling by the technician.



Mounting tool

Article no. 711M1

One side with M12x1.5 exterior thread for prosthetic hands and the other side with M12x1.5 interior thread for Ottobock system electric hands and the Michelangelo Hand.



Mounting plate

Article no. 711M2

The mounting plate is used to screw the mounting tool (article no. 711M1) to the workbench.

Donning sphere

Article no. 711M114

The donning sphere was developed especially for the Michelangelo Hand and is used to briefly stretch the AxonSkin glove during donning.

Donning tool

Article no. 711M116

The donning tool is used for the Michelangelo Hand Transcarpal.

Notes

Body-Powered

Active mechanical arm components

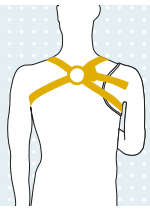
Active gripping – cable-activated

The voluntary opening and voluntary closing system hands belong to the cable-controlled prostheses or “active prehensile arms” and are activated by a body harness system. The voluntary opening system hand is opened by pulling the cable and closes automatically. The voluntary closing system hand is closed by pulling the cable. Another pull releases the lock and opens the hand. The system inner hand conceals the mechanism and serves as the shaping element for the prosthetic glove.
It is selected according to the size of the inner hand and is available in various models and colours.

On the following pages you will find

Overview of active mechanical arm components

Body harness



Triple-control above-elbow harness
21A35

Below-elbow harness
21A36

Liner

Skeo Up
14Y5

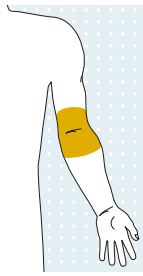
IntoLiner Acclimate
14Y3

Silicone ArmLiner
14Y1

Shoulder

We recommend fitting patients with shoulder disarticulation or higher amputation levels with myoelectric or passive systems.

Elbow



Joint bars

Elbow joint bars
16X12

Elbow components for children

MovolinoArm
12K12

12K19

Elbow components for adults

ErgoArm plus
12K42

ErgoArm
12K41

12K27

12K5

12K20

Wrist joint

Flexion wrist
10V39 MovoWrist Flex

Ball ratchet wrist joint
10V8

Wrist joints
10V18
10V36

Robo-Wrist
10V41

Ball ratchet wrist joint, short
10V30

Terminal device

System hands

Voluntary opening system hand
8K22
8K23

Voluntary closing system hand
8K26
8K27

Passive system hand
8K18
8K19

The corresponding prosthetic gloves must be selected separately.

Terminal devices

All-purpose hook
10A3

All-purpose ring
10A4

Cable-activated hooks for children

10A25

Cable-activated hooks for adolescents

10A37

Cable-activated hooks for adults

10A11
10A60

10A18

10A12

10A71

10A81

Passive system hand

Article no. 8K18/8K19

The passive system hand is suitable for all residual limb lengths with passive prostheses. It is opened with the sound hand and closes independently. The system is lightweight and stable. With threaded stud (article no. 8K18: M12X1.5, 8K19: ½"-20) and system inner hand. Available in sizes 6 ¾ (children), 7 ¼ (adolescents and women), 7 ¾ and 8 (men).

647G444

Article no.	Side	Size	Inner hand	Approx. weight
8K18=L6 ¾	Left (L)	6 ¾	8X14=L6 ¾	185 g
8K18=L7 ¼	Left (L)	7 ¼	8X14=L7 ¼	250 g
8K18=L7 ¾	Left (L)	7 ¾	8X14=L7 ¾	280 g
8K18=L8	Left (L)	8	8X14=L8	290 g
8K18=R6 ¾	Right (R)	6 ¾	8X14=R6 ¾	185 g
8K18=R7 ¼	Right (R)	7 ¼	8X14=R7 ¼	250 g
8K18=R7 ¾	Right (R)	7 ¾	8X14=R7 ¾	280 g
8K18=R8	Right (R)	8	8X14=R8	290 g

Article no.	Side	Size	Inner hand	Approx. weight
8K19=L6 ¾	Left (L)	6 ¾	8X14=L6 ¾	185 g
8K19=L7 ¼	Left (L)	7 ¼	8X14=L7 ¼	250 g
8K19=L7 ¾	Left (L)	7 ¾	8X14=L7 ¾	280 g
8K19=L8	Left (L)	8	8X14=L8	290 g
8K19=R6 ¾	Right (R)	6 ¾	8X14=R6 ¾	185 g
8K19=R7 ¼	Right (R)	7 ¼	8X14=R7 ¼	250 g
8K19=R7 ¾	Right (R)	7 ¾	8X14=R7 ¾	280 g
8K19=R8	Right (R)	8	8X14=R8	290 g

The prosthetic glove must be ordered separately. See pages 130–132.

Terminal devices

647G445

Voluntary opening system hand

Article no. 8K22

These system hands are suitable for all cable-controlled prostheses. They are opened by pulling the cable (active) and close independently with concurrent locking. Available with perlon cable on the back of the hand (outer pull), with threaded stud (article no. M12x1.5) and system inner hand in sizes 6 ¾ (children), 7 ¼ (adolescents and women), 7 ¾ and 8 (men).

Article no.	Side	Size	Inner hand	Approx. weight
8K22=L6 ¾	Left (L)	6 ¾	8X14=L6 ¾	215 g
8K22=L7 ¼	Left (L)	7 ¼	8X14=L7 ¼	300 g
8K22=L7 ¾	Left (L)	7 ¾	8X14=L7 ¾	330 g
8K22=L8	Left (L)	8	8X14=L8	340 g
8K22=R6 ¾	Right (R)	6 ¾	8X14=R6 ¾	215 g
8K22=R7 ¼	Right (R)	7 ¼	8X14=R7 ¼	300 g
8K22=R7 ¾	Right (R)	7 ¾	8X14=R7 ¾	330 g
8K22=R8	Right (R)	8	8X14=R8	340 g

The prosthetic glove must be ordered separately. See pages 130 – 132.

647G445

Voluntary opening system hand

Article no. 8K23

These system hands are suitable for all cable-activated prostheses. They are opened by pulling the cable (active) and close independently with concurrent locking. Available with steel cable on the back of the hand (outer pull), with threaded stud (article no. ½"-20) and system inner hand in sizes 6 ¾ (children), 7 ¼ (adolescents and women) 7 ¾ and 8 (men).

Article no.	Side	Size	Inner hand	Approx. weight
8K23=L6 ¾	Left (L)	6 ¾	8X14=L6 ¾	215 g
8K23=L7 ¼	Left (L)	7 ¼	8X14=L7 ¼	300 g
8K23=L7 ¾	Left (L)	7 ¾	8X14=L7 ¾	330 g
8K23=L8	Left (L)	8	8X14=L8	340 g
8K23=R6 ¾	Right (R)	6 ¾	8X14=R6 ¾	215 g
8K23=R7 ¼	Right (R)	7 ¼	8X14=R7 ¼	300 g
8K23=R7 ¾	Right (R)	7 ¾	8X14=R7 ¾	330 g
8K23=R8	Right (R)	8	8X14=R8	340 g

The prosthetic glove must be ordered separately. See pages 130 – 132.

Voluntary closing system hand

Article no. 8K26

These system hands close by pulling the cable – a subsequent adjustment pull increases the gripping force – and lock in any gripping position (active). Through renewed activation of the cable, the hand is released and opens independently (double cable).

Available with perlon cable on the back of the hand (outer pull), with threaded stud (article no. M12X1.5) and system inner hand in sizes 7 ¼ (adolescents and women), 7 ¾ and 8 (men).

Article no.	Side	Size	Inner hand	Approx. weight
8K26=L7 ¼	Left (L)	7 ¼	8X14=L7 ¼	340 g
8K26=L7 ¾	Left (L)	7 ¾	8X14=L7 ¾	370 g
8K26=L8	Left (L)	8	8X14=L8	380 g
8K26=R7 ¼	Right (R)	7 ¼	8X14=R7 ¼	340 g
8K26=R7 ¾	Right (R)	7 ¾	8X14=R7 ¾	370 g
8K26=R8	Right (R)	8	8X14=R8	380 g

The prosthetic glove must be ordered separately. See pages 130–132.

647G446

Voluntary closing system hand

Article no. 8K27

These system hands close by pulling the cable – a subsequent adjustment pull increases the gripping force – and lock in any gripping position (active). Through renewed activation of the cable, the hand is released and opens independently (double cable).

Available with steel cable on the back of the hand (outer pull), with threaded stud (½"-20) and system inner hand in sizes 7 ¼ (adolescents and women), 7 ¾ and 8 (men).

Article no.	Side	Size	Inner hand	Approx. weight
8K27=L7 ¼	Left (L)	7 ¼	8X14=L7 ¼	340 g
8K27=L7 ¾	Left (L)	7 ¾	8X14=L7 ¾	370 g
8K27=L8	Left (L)	8	8X14=L8	380 g
8K27=R7 ¼	Right (R)	7 ¼	8X14=R7 ¼	340 g
8K27=R7 ¾	Right (R)	7 ¾	8X14=R7 ¾	370 g
8K27=R8	Right (R)	8	8X14=R8	380 g

The prosthetic glove must be ordered separately. See pages 130–132.

647G446

Spare parts and accessories

System inner hand

Article no. 8X14

System inner hand with finger support in the little and ring finger, and retainer ring (article no. 9S187).

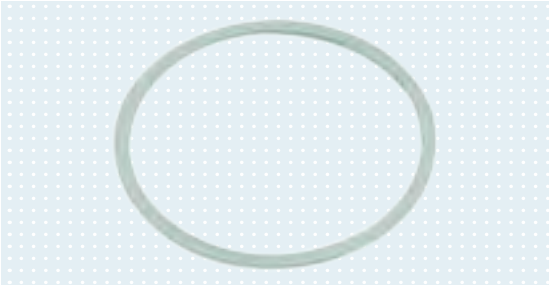
Article no.	Side	Size
8X14=L6 ¾	Left (L)	6 ¾
8X14=L7 ¼	Left (L)	7 ¼
8X14 =L7 ¾	Left (L)	7 ¾
8X14=L8	Left (L)	8
8X14=R6 ¾	Right (R)	6 ¾
8X14=R7 ¼	Right (R)	7 ¼
8X14=R7 ¾	Right (R)	7 ¾
8X14=R8	Right (R)	8

Lock ring

Article no. 9S187

Wide lock ring. Compatible with the system inner hand (article no. 8X14) in hand sizes 7 ¼, 7 ¾ and 8.

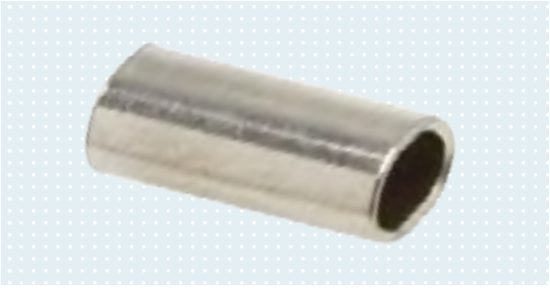
Article no.	Size
9S187=7 ¼	7 ¼
9S187=7 ¾	7 ¾
9S187=8 ¼	8 ¼



Retainer ring

Article no. 9S15=42

Retainer ring to secure the system inner hand (article no. 8X14) size 6 ¾.



Suspension rosette

Article no. 21A8

Spare parts and accessories

Chassis

Article no. 9S*

Chassis with threaded stud.

Article no.	Diameter	Threaded stud	Compatible with
9S10=40	40 mm	M12X1.5	8K18=L/R 6 ¾ 8K20=L/R 6 ¾ 8K22=L/R 6 ¾ 8K24=L/R 6 ¾ 8K26=L/R 6 ¾
9S166=44-N	44 mm	M12X1.5	8K18=L/R 7 ¼ 8K20=L/R 7 ¼ 8K22=L/R 7 ¼ 8K24=L/R 7 ¼ 8K26=L/R 7 ¼
9S166=48-N	48 mm	M12X1.5	8K18=L/R 7 ¾ 8K18=L/R 8 8K20=L/R 7 ¾ 8K20=L/R 8 8K22=L/R 7 ¾ 8K22=L/R 8 8K24=L/R 7 ¾ 8K24=L/R 8 8K26=L/R 7 ¾ 8K26=L/R 8
9S52=40	40 mm	½"-20	8K19=L/R 6 ¾ 8K23=L/R 6 ¾ 8K27=L/R 6 ¾
9S185=44-N	44 mm	½"-20	8K19=L/R 7 ¼ 8K21=L/R 7 ¼ 8K23=L/R 7 ¼ 8K27=L/R 7 ¼
9S185=48-N	48 mm	½"-20	8K19=L/R 7 ¾ 8K19=L/R 8 8K21=L/R 7 ¾ 8K21=L/R 8 8K23=L/R 7 ¾ 8K23=L/R 8 8K27=L/R 7 ¾ 8K27=L/R 8 8K29=L/R 7 ¾ 8K29=L/R 8

9S10=40

9S166=44-N

9S166=48-N

9S185=44-N

Finger and thumb cover

Article no. 9S6

Finger and thumb cover compatible with hand sizes 6 ¾, 7 ¼, 7 ¾ and 8.

Spare parts and accessories

Lamination ring

Article no. 9E94

Lamination ring available for hand sizes 6 ¾, 7 ¼, 7 ¾ and 8.

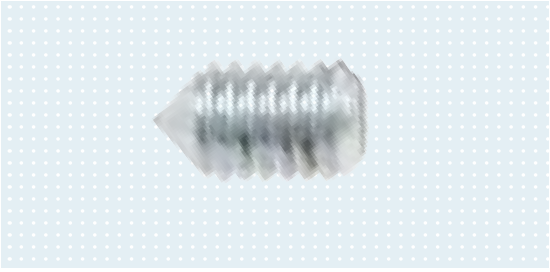
Article no.	Diameter	Size
9E94=44	44 mm	6 ¾
9E94=50	50 mm	7 ¼, 7 ¾ and 8

Chassis

Article no. 9S96 / 9S184

Chassis for excessively long forearm and wrist disarticulation residual limbs. Compatible with lamination ring (article no. 9E94).

Article no.	Diameter	Size
9S96=40	40 mm	6 ¾
9S184=44-N	44 mm	7 ¼
9S184=48-N	48 mm	7 ¾ and 8



Set screw

Article no. 506G4

Set screw for chassis. Four set screws are required per chassis.

Article no.	Compatible with
506G4=M3X5	Chassis article no. 9S96=40
506G4=M4X5	Chassis article no. 9S184

Spare parts and accessories

Flange button head socket screw

Article no. 501T52=M3X6

The flange button head socket screw with the M3X6 thread is used to screw the chassis to the base plate of the system hand (all sizes). Two pieces are required.

Flange button head socket screw

Article no. 501T52=M3X8

The flange button head socket screw with the M3X8 thread is used to screw the chassis to the cover plate of the system hand (all sizes). One screw is required.

Prosthetic gloves

647G468 (standard glove)
647G571 (Skin Natural)

Prosthetic glove for children

Article no. 8S6=170X65

The prosthetic glove for children is compatible with size 6 ¾, with long sleeve, and available in 18 colours.
In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin.
Please add an N before the = in the article number.

Example
- 8S6=170X65L (standard glove)
- 8S6N=170X65L (Skin Natural)

Article no.	Side	Size	Sleeve length
8S6=170X65L	Left (L)	6 ¾	300 mm
8S6=170X65R	Right (R)	6 ¾	300 mm

The entire Skin Natural colour palette is produced with seven colours.
The new 646M47 colour scale helps when selecting the right pattern.

647G468 (standard glove)
647G571 (Skin Natural)

Prosthetic glove for adolescents

Article no. 8S4=190X76

The prosthetic glove for adolescents is available for size 7 ¼, with short sleeve, and in 18 colours.
In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin.
Please add an N before the = in the article number.

Example
- 8S4=190X76L (standard glove)
- 8S4N=190X76L (Skin Natural)

Article no.	Side	Size	Sleeve length
8S4=190X76L	Left (L)	7 ¼	215 mm
8S4=190X76R	Right (R)	7 ¼	215 mm

The entire Skin Natural colour palette is produced with seven colours.
The new 646M47 colour scale helps when selecting the right pattern.

Prosthetic gloves

Prosthetic glove for men

Article no. 8S11=210X78

The prosthetic glove for men is available in size 7 ¾, with long sleeve, and in 18 colours.
In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin.
Please add an N before the = in the article number.

Example
- 8S11=210X78L (standard glove)
- 8S11N=210X78L (Skin Natural)

Article no.	Side	Size	Sleeve length
8S11=210X78L	Left (L)	7 ¾	320 mm
8S11=210X78R	Right (R)	7 ¾	320 mm

The entire Skin Natural colour palette is produced with seven colours. The new 646M47 colour scale helps when selecting the right pattern.

647G468 (standard glove)
647G571 (Skin Natural)

Prosthetic glove for men

Article no. 8S4=220X80

Prosthetic glove for men available in size 8, with short sleeve, and in 18 colours.
In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin.
Please add an N before the = in the article number.

Example
- 8S4=220X80L (standard glove)
- 8S4N=220X80L (Skin Natural)

Article no.	Side	Size	Sleeve length
8S4=220X80L	Left (L)	8	225 mm
8S4=220X80R	Right (R)	8	225 mm

The entire Skin Natural colour palette is produced with seven colours. The new 646M47 colour scale helps when selecting the right pattern.

647G468 (standard glove)
647G571 (Skin Natural)

Special cleaner for prosthetic gloves is found on page 248.

Prosthetic gloves

647G468 (standard glove)
647G571 (Skin Natural)

Prosthetic glove for women

Article no. 8S5=195X78

The prosthetic glove for women is available in size 7 ¼, with long sleeve, in 18 different colours.
In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin.
Please add an N before the = in the article number.

Example

- 8S5=195X78L (standard glove)
- 8S5N=195X78L (Skin Natural)

Article no.	Side	Size	Sleeve length
8S5=195X78L	Left (L)	7 ¼	340 mm
8S5=195X78R	Right (R)	7 ¼	340 mm

The entire Skin Natural colour palette is produced with seven colours. The new 646M47 colour scale helps when selecting the right pattern.

Special cleaner for prosthetic gloves is found on page 248.

Cable-activated hook and accessories

Easy to open, simple to close

In cable-controlled prostheses, a cable-activated hook can be used as the terminal device instead of a system hand. It is opened by pulling a control cable and is closed automatically by spring or rubber elements. In addition to the cable-activated hooks for children and adolescents, the standard hooks for adults as well as all-purpose hooks have been included in this catalogue. The various connecting elements for attaching the cable-activated hooks to the wrist construction are described at the end of this section.

Cable-activated hook for children

Article no. 10A25

Cable-activated hook for children with threaded stud made of light metal.

Article no.	Side	Threaded stud
10A25=LM12X1.5	Left (L)	M12X1.5
10A25=RM12X1.5	Right (R)	M12X1.5

Connecting elements for cable-activated hooks are listed on pages 117, 130 and 136.

647G443

Cable-activated hook for adolescents

Article no. 10A37

Cable-activated hook for adolescents with threaded stud made of light metal.

Article no.	Side	Threaded stud
10A37=LM12X1.5	Left (L)	M12X1.5
10A37=L½"-20	Left (L)	½"-20
10A37=RM12X1.5	Right (R)	M12X1.5
10A37=R½"-20	Right (R)	½"-20

Connecting elements for cable-activated hooks are listed on pages 117, 130 and 136.

647G443

Cable-activated hook and accessories

Finger cover

Article no. 10Y1

Plastic finger cover in beige. Accessories for 10A37, 10A11 and 10A60 cable-activated hook.

Finger cover

Article no. 10Y8

Plastic finger cover in beige. Scope of delivery: 1 set with one cover with and without nubs each. Accessories for 10A25 cable-activated hook.

Rubber band

Article no. 10Y13

Cable-activated hook and accessories

MovoHook 2Grip

Article no. 10A71

The familiar MovoHook 2Grip cable-activated hooks are now also available with coated branches for an even better grip. This coating offers superior gripping security, especially where metal is very slippery on certain materials such as paper or glass. On the other hand, the coating does not adhere to textiles so sliding through a sleeve while getting dressed or undressed does not pose a problem.
The advantage of this is that finger covers are not required. The MovoHook 2Grip is made of aluminium (food grade) with coated branches for an even better grip (weight: 120 g) and has an opening width of 100 mm.

Article no.	Side	Threaded stud
10A71=LM12X1.5	Left (L)	M12X1.5
10A71=L½"-20	Left (L)	½"-20
10A71=RM12X1.5	Right (R)	M12X1.5
10A71=R½"-20	Right (R)	½"-20

Connecting elements for cable-activated hooks are listed on page 139.

647G204

MovoHook 2Grip

Article no. 10A81

The familiar MovoHook 2Grip cable-activated hooks are now also available with coated branches for an even better grip. This coating offers superior gripping security, especially where metal is very slippery on certain materials. However, the coating does not adhere to textiles so sliding through a sleeve while getting dressed or undressed does not pose a problem. The MovoHook 2Grip is made of food grade stainless steel with coated branches for an even better grip (weight: 250 g) and has an opening width of 100 mm. The advantage of this is that finger covers are not required. The advantage of this is that finger covers are not required.

Article no.	Side	Threaded stud
10A81=LM12X1.5	Left (L)	M12X1.5
10A81=L½"-20	Left (L)	½"-20
10A81=RM12X1.5	Right (R)	M12X1.5
10A81=R½"-20	Right (R)	½"-20

Connecting elements for cable-activated hooks are listed on page 139.

647G204

Cable-activated hook for adults with accessories

647G442

Cable-activated hook for adults

Article no. 10A11

The standard hook is made of light metal.

Article no.	Side	Threaded stud
10A11=LM12X1.5	Left (L)	M12X1.5
10A11=L½"-20	Left (L)	½"-20
10A11=RM12X1.5	Right (R)	M12X1.5
10A11=R½"-20	Right (R)	½"-20

Connecting elements for cable-activated hooks are listed on page 139.

647G442

Cable-activated hook for adults

Article no. 10A60

The standard hook is made of stainless steel.

Article no.	Side	Threaded stud
10A60=LM12X1.5	Left (L)	M12X1.5
10A60=L½"-20	Left (L)	½"-20
10A60=RM12X1.5	Right (R)	M12X1.5
10A60=R½"-20	Right (R)	½"-20

Connecting elements for cable-activated hooks are listed on page 139.

Cable-activated hook for adults with accessories

Cable-activated hook for adults

Article no. 10A18

The cable-activated hook is made of light metal.

Article no.	Side	Threaded stud
10A18=LM12X1.5	Left (L)	M12X1.5
10A18=L½"-20	Left (L)	½"-20
10A18=RM12X1.5	Right (R)	M12X1.5
10A18=R½"-20	Right (R)	½"-20

Connecting elements for cable-activated hooks are listed on page 139.

647G442

Cable-activated hook for adults

Article no. 10A12

The all-purpose hook is made of stainless steel.

Article no.	Side	Threaded stud
10A12=LM12X1.5	Left (L)	M12X1.5
10A12=L½"-20	Left (L)	½"-20
10A12=RM12X1.5	Right (R)	M12X1.5
10A12=R½"-20	Right (R)	½"-20

Connecting elements for cable-activated hooks are listed on page 139.

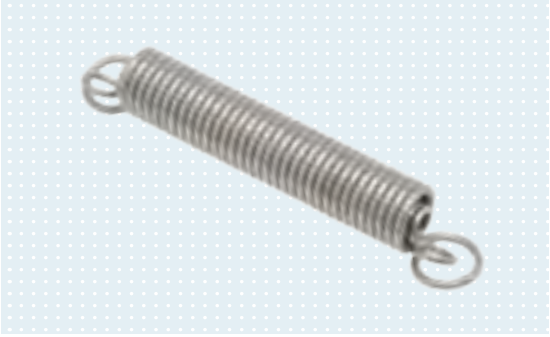
647G442

Cable-activated hook for adults with accessories

Finger cover

Article no. 10Y1

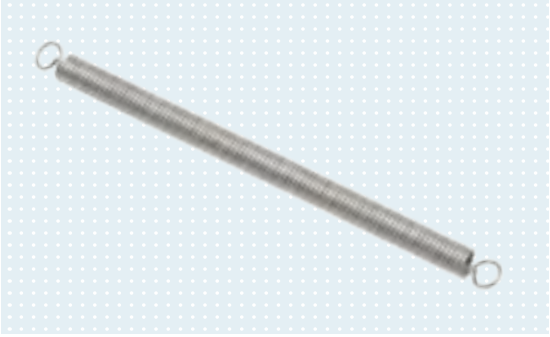
Plastic finger cover in beige. Accessories for 10A37, 10A11 and 10A60 cable-activated hook.



Double spring

Article no. 10Y2

Double spring as spare part for 10A11, 10A18 and 10A60 cable-activated hook.



Spring

Article no. 10Y12

The spring is required for the all-purpose hook (article no. 10A12). Three pieces are required to completely renew all springs.

Cable-activated hook for adults with accessories

Connection piece for cable-activated hook

Article no. 21A13

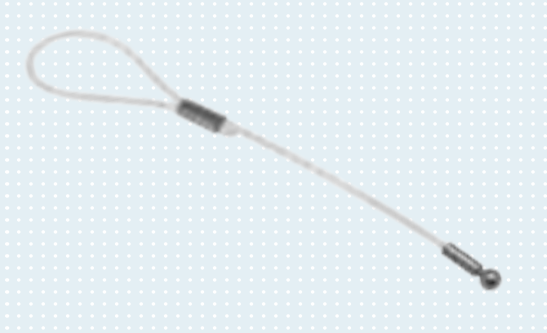
Connection piece for cable-activated hook with connection piece screw (article no. 21A9) and washer (article no. 21A10) or with ball head. Material: perlon cable.

Article no.	Compatible with
21A13=3	10Y32=1, 10A11, 10A12, 10A60 Hook
21A13=4	10Y32=1, 10A71, 10A81 Hook

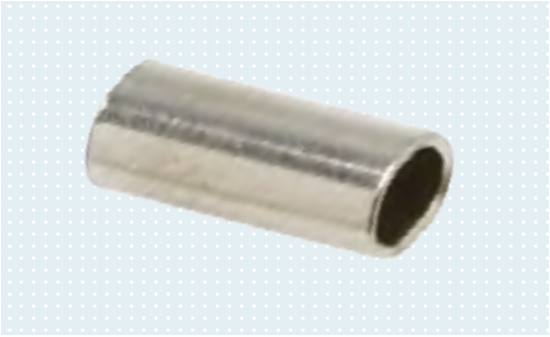
Connection piece for hook

Article no. 21A44

Connection piece for hook with suspension rosette (article no. 21A8). Compatible with models with article no. 10A12, 10A18, 10A25 and 10A37 in combination with the article no. 21A35/21A36=* body harnesses. Material: perlon cable.



Cable-activated hook for adults with accessories



Suspension rosette
Article no. 21A8

Connection piece screw
Article no. 21A9

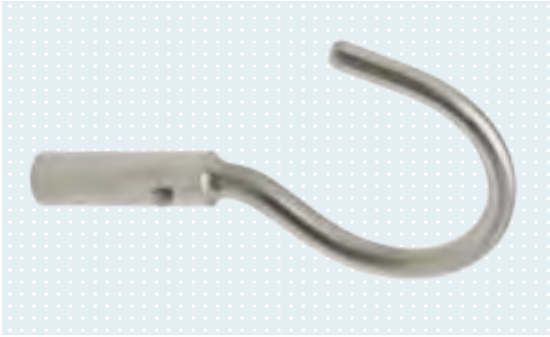
Washer
Article no. 21A10

Terminal devices

All-purpose hook

Article no. 10A3

Nickel-plated all-purpose hook with standard stud.



647G455

All-purpose ring

Article no. 10A4

Nickel-plated all-purpose ring with standard stud.

647G455

Robo-Wrist and accessories

Robo-Wrist

Article no. 10V41

The wrist joint can rotate cable-controlled or passive terminal devices by 360° and simultaneously flex them at any angle up to 43°. Rotation and flexion are locked simultaneously by pressing the pushbutton. Switching between different terminal devices is easy with the Quick-Change function and two included 10A31=½-20 adapters. The friction in the free-running state can be adjusted by turning the tension ring.

Article no.	Wrist joint	Lamination ring	Thread
10V41	Diameter 50 mm, height 41 mm	Diameter 43.5 mm, height 20 mm	½"-20

Adapter for Robo-Wrist

Article no. 10A31=½-20

Standard adapter for the Robo-Wrist (article no. 10V41) with imperial interior thread (½"-20). For quickly exchanging terminal devices.

Titanium adapter for Robo-Wrist

Article no. 10A32=½-20

Two-part titanium adapter for the Robo-Wrist (article no. 10V41) with imperial interior thread (½"-20). Intended for high-stress activities. The stability is increased by blocking the flexion/extension. Rotation with the wrist joint is still possible in this case.

MovoWrist-Flex and accessories

MovoWrist Flex

Article no. 10V39

The MovoWrist Flex wrist joint permits flexion and extension of a cable-controlled or passive terminal device and locking in five increments from -15° to +45° as well as 360° rotation with 20 different positions. Total length: 33 mm, of which 12 mm are visible on the distal end.

Article no.	Exterior diameter
10V39=45	45 mm
10V39=50	50 mm

647G375

Adapter

Article no. 10A30

Adapter to connect a terminal device to the MovoWrist Flex wrist joint.

Article no.	Compatible with
10A30=M12X1.5	Terminal device with metric thread
10A30=½"-20	Terminal device with inch thread

Lamination ring

Article no. 11D1

Lamination ring for MovoWrist Flex wrist joint. Please note the correct diameter of the joint when placing your order.

Article no.	Diameter
11D1=45	45 mm
11D1=50	50 mm

5

Wrist joints and accessories

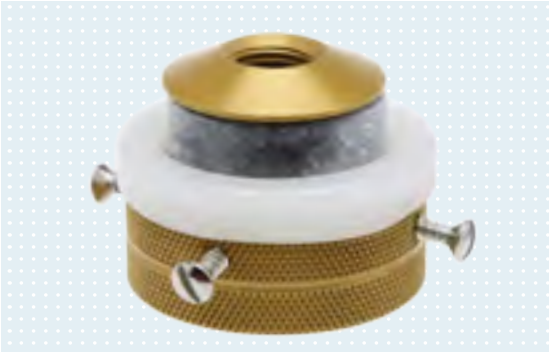
647G453

Ottobock wrist joint

Article no. 10V18

Ottobock wrist joint with interior thread and cylindrical lamination ring. Thread: M12X1.5.

Article no.	Exterior diameter
10V18=34	34 mm
10V18=40	40 mm
10V18=45	45 mm
10V18=50	50 mm



647G453

Ottobock wrist joint

Article no. 10V36

Ottobock wrist joint with interior thread and cylindrical lamination ring. Thread: ½"-20.

Article no.	Exterior diameter
10V36=34	34 mm
10V36=45	45 mm
10V36=50	50 mm

Cylindrical lamination ring

Article no. 11D20

Article no.	Exterior diameter	Compatible with
11D20=34	34 mm	Article no. 10V18=34
11D20=40	40 mm	Article no. 10V18=40, 10V32=40
11D20=45	45 mm	Article no. 10V18=45, 10V32=45, 10V34=45, 10V36=45
11D20=50	50 mm	Article no. 10V8, 10V9, 10V10, 10V18=50, 10V32=50, 10V34=50, 10V36=50

Oval head screw (sheet metal screw)

Article no. 501S40

Oval head sheet metal screw as spare part for the cylindrical lamination ring article no. 11D20 for wrist joints article no. 10V18, 10V32, 10V34 and 10V36.

Article no.	Lamination ring diameter
501S40=3.5X9.5	28 and 34 mm
501S40=3.5X13	40, 45 and 50 mm

Wrist joints and accessories

Rubber friction ring

Article no. 11D27

Spare part for the Ottobock wrist joints article no. 10V18 and 10V36.

Article no.	Lamination ring diameter	Diameter
11D27=25	28 mm	25 mm
11D27=32	34, 40, 45 and 50 mm	32 mm

Ball ratchet wrist joint

Article no. 10V8

The ball ratchet wrist joint with lock lever is used to connect the hand or the hook with attachment plate with stud (article no. 10A43). The joint body has a diameter of 50 mm.

Article no.	Weight	Overall length
10V8	120 g	25 mm

647G452

Ball ratchet wrist joint, short

Article no. 10V30

The short ball ratchet wrist joint with lock lever is intended for long below-elbow residual limbs. It is used to connect the hand or the hook with attachment plate with short stud (article no. 10A56). The joint body has a diameter of 50 mm.

Article no.	Weight	Overall length
10V30	100 g	19 mm

Standard connector

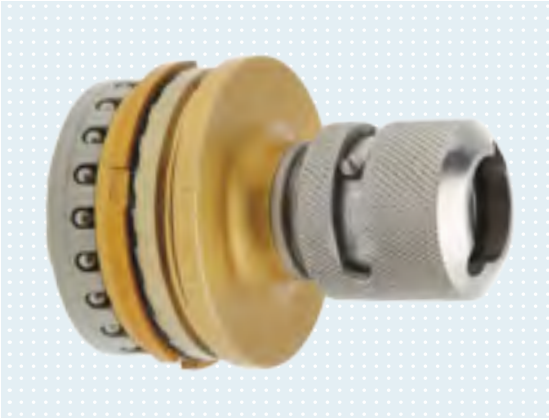
Article no. 10V15

Standard connector for accommodating terminal devices with a standard stud (diameter: 13 mm) and for connecting to ball ratchet wrist joint (article no. 10V8). With attachment plate and stud.

647G455

5

Wrist joints and accessories



647G455

Quick-disconnect wrist unit with standard connector

Article no. 11S33

Quick-disconnect wrist unit with standard connector for accommodating terminal devices with a standard stud (diameter: 13 mm) and for attachment to the Ottobock system wrist joint.

Article no.	Exterior diameter
11S33=40	40 mm
11S33=44	44 mm
11S33=48	48 mm

Attachment plate with stud

Article no. 10A43

Attachment plate with stud to connect a cable-activated hook or system hand to the wrist joint (article no. 10V8). Made of stainless steel with a diameter of 50 mm and an interior thread.

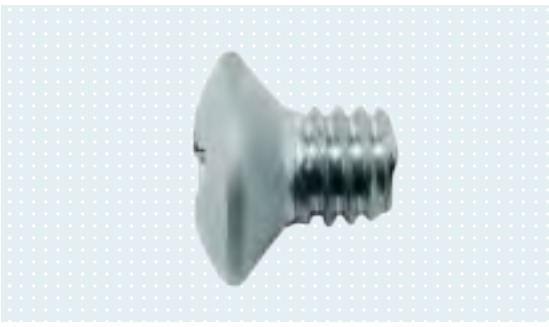
Article no.	Interior thread
10A43=M12X1.5	M12X1.5
10A43=½"-20	½"-20

Attachment plate with short stud

Article no. 10A56

Attachment plate with short stud to connect a cable-activated hook or system hand to the wrist joint (article no. 10V30). Made of stainless steel with a diameter of 50 mm and an interior thread.

Article no.	Interior thread
10A56=M12X1.5	M12X1.5
10A56=½"-20	½"-20



Oval countersunk head screw, slotted

Article no. 501S27=M3X8

The oval countersunk head screw, slotted, made of stainless steel is compatible with article no. 10V8, 10V9, 10V10 and 10V25. The M4 thread with a head diameter of 7.2 mm has a thread length of 8 mm.

Elbow components and accessories

Elbow components for children

Article no. 12K19=40

Elbow component with manual elbow lock (10 locking positions in 8° increments) and an upper arm rotation joint (humeral rotation feature) with lamination ring. The elbow ball is made of beige plastic (corresponds to glove colour 2). The wrist connection has a diameter of 40 mm.

Article no.	Upper arm connection diameter	Size	Colour	Length	Circum-ference
12K19=40	54 mm	6 ¾	2	approx. 250 mm	210 mm

647G469

MovolinoArm Friction

Article no. 12K12

The MovolinoArm Friction is available in one size. It is the perfect complement to the current Ottobock product portfolio, since it allows prostheses on the right and left side for children aged 3 to 5 years. The elbow is compatible with passive, Body-Powered and myoelectric arm prostheses and weighs a mere 182 g.
The elbow has one friction setting for humeral rotation and one for flexion or extension of the forearm. Parents can easily set this friction setting. A further advantage is that the elbow is compatible with the components of the 7.4 volt system for children. The MovolinoArm Friction features an impressive design that has a very realistic natural appearance.
The hand adapter of the MovolinoArm Friction is naturally compatible with the Electric Hand 2000. The wood adapter (article no. 10A40) is available for passive prosthetic hands. The wrist joint (10V18=34 or 10V36=34) is compatible with Body-Powered terminal devices.

Article no.	Upper arm connection diameter	Wrist connection diameter	Colour
12K12	43.5 mm	34 mm	4

PDF-Kommentar:
No. The O-rings do not have to be shown in the picture with the elbow component.

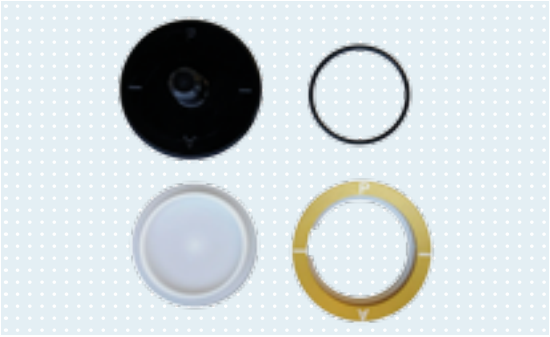
Basta: Bitte neue MAM-ID nachreichen. Danke sehr.

647G570

Tip
Both joints can also be fitted in conjunction with the Children's Hand 2000 (article no. 8E51=*).

5

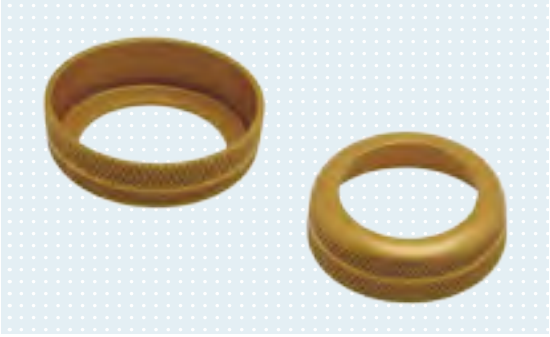
Elbow components and accessories



Lamination ring set

Article no. 13G21

The set consists of a lamination ring with lamination dummies and an O-ring for the 12K12 elbow.



Lamination ring

Article no. 13G8=54

For 12K19 elbow.

Perlon cable

Article no. 21A18

Perlon cable with a diameter of 2 mm.

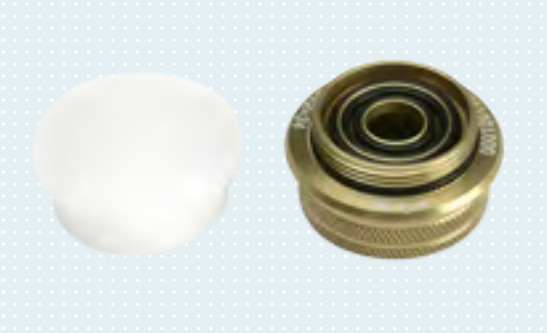
Article no.	Length	Order by
21A18=2X1	1 m	linear metres
21A18=2X5	5 m	linear metres
21A18=2X10	10 m	linear metres
21A18=2X25	25 m	linear metres

Elbow components and accessories

Wrist joint lamination ring

Article no. 11D12=34

The wrist joint lamination ring is used for the connection with the Children's Hand 2000. It consists of a copper friction ring, O-rings and a protective cover. For 12K12 elbow.



Wood hand adapter

Article no. 10A40

The wood hand adapter has a plastic threaded stud (M12x1.5) and is used to connect a passive inner hand to a forearm socket or elbow component. The diameter of the hand adapter is 60 mm, and modification to reduce that is possible.

Ottobock wrist joint

Article no. 10V36=34

The Ottobock wrist joint has an exterior diameter of 34 mm, the thread ½"-20". For 12K12 elbow.

Ottobock wrist joint

Article no. 10V18=34

The Ottobock wrist joint has an exterior diameter of 34 mm, the thread M12X1.5. For 12K12 elbow.

Elbow components and accessories

647H437

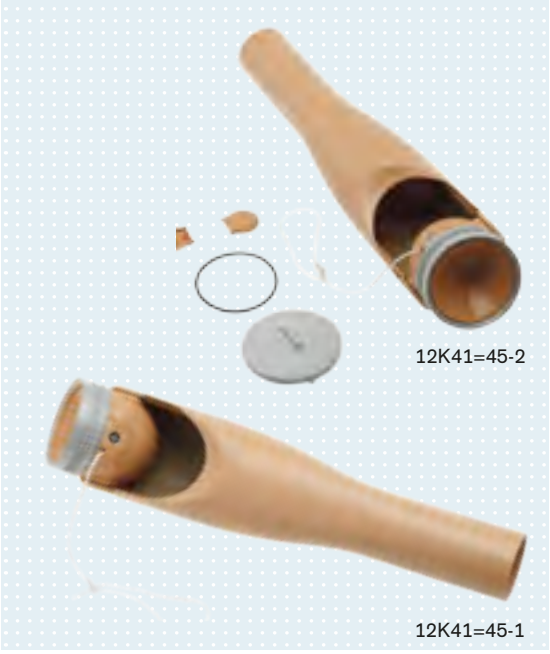
ErgoArm plus

Article no. 12K42

Elbow for cable-controlled prostheses. With internal ratchetless lock, flexion aid (AFB = Automatic Forearm Balance) and upper arm rotation joint (humeral rotation feature), with adjustable friction, plastic forearm shell, elbow ball made of plastic, length: 305 mm, circumference: 250 mm. The slip-stop function makes it possible to lower the forearm in a controlled manner without having to fully release and reactivate the lock. The lock can bear a load of up to 230 N at a forearm length of approximately 305 mm. The internal ratchetless lock can be unlocked or locked in any position, even under a load. The flexion aid (AFB) supports joint flexion and facilitates natural free-swing behaviour.

Article no.	Size	Upper arm connection diameter	Lamination ring diameter	Colour
12K42=45	6 ¾ – 7 ¼	70 mm	45 mm	4
12K42=45-1	6 ¾ – 7 ¼	70 mm	45 mm	11
12K42=45-2	6 ¾ – 7 ¼	70 mm	45 mm	15
12K42=50	7 ¾ – 8 ¼	70 mm	50 mm	4
12K42=50-1	7 ¾ – 8 ¼	70 mm	50 mm	11
12K42=50-2	7 ¾ – 8 ¼	70 mm	50 mm	15

- The colour roughly corresponds to the glove colour according to the 646M3 colour swatches.
- Please note that the -1 and -2 versions are fabricated only after an order is received, so delivery is expected to take longer.



647H438

ErgoArm

Article no. 12K41

Elbow for cable-controlled prostheses. With internal ratchetless lock, upper arm rotation joint (humeral rotation feature), with adjustable friction, plastic forearm shell, elbow ball made of plastic, length: 305 mm, circumference: 250 mm. The slip-stop function makes it possible to lower the forearm in a controlled manner without having to fully release and reactivate the lock.
The lock can bear a load of up to 230 N at a forearm length of approximately 305 mm. The internal ratchetless lock can be unlocked or locked in any position, even under a load.

Article no.	Size	Upper arm connection diameter	Lamination ring diameter	Colour
12K41=45	6 ¾ – 7 ¼	70 mm	45 mm	4
12K41=45-1	6 ¾ – 7 ¼	70 mm	45 mm	11
12K41=45-2	6 ¾ – 7 ¼	70 mm	45 mm	15
12K41=50	7 ¾ – 8 ¼	70 mm	50 mm	4
12K41=50-1	7 ¾ – 8 ¼	70 mm	50 mm	11
12K41=50-2	7 ¾ – 8 ¼	70 mm	50 mm	15

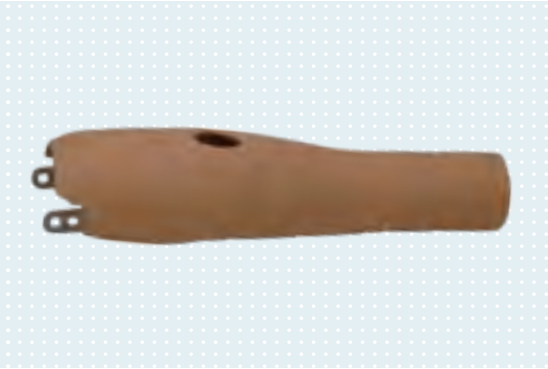
- The colour roughly corresponds to the glove colour according to the 646M3 colour swatches.
- Please note that the -1 and -2 versions are fabricated only after an order is received, so delivery is expected to take longer.

Elbow components and accessories

Forearm

Article no. 12K48

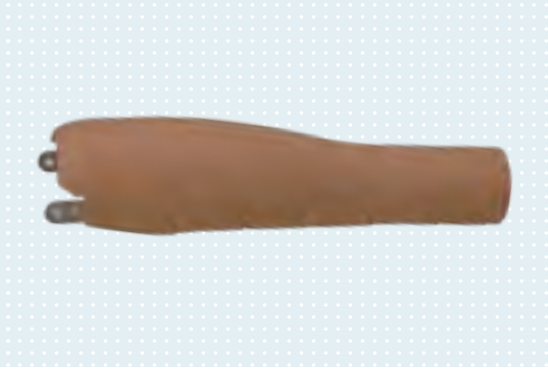
Article no.	Colour	Diameter	Compatible with
12K48=45	4	45 mm	12K42/44/50=45
12K48=45-1	11	45 mm	12K42/44/50=45
12K48=45-2	15	45 mm	12K42/44/50=45
12K48=50	4	50 mm	12K42/44/50=50
12K48=50-1	11	50 mm	12K42/44/50=50
12K48=50-2	15	50 mm	12K42/44/50=50



Forearm

Article no. 12K49

Article no.	Colour	Diameter	Compatible with
12K49=45	4	45 mm	12K41=45
12K49=45-1	11	45 mm	12K41=45
12K49=45-2	15	45 mm	12K41=45
12K49=50	4	50 mm	12K41=50
12K49=50-1	11	50 mm	12K41=50
12K49=50-2	15	50 mm	12K41=50



Elbow joint

Article no. 12A13

Article no.	Colour
12A13	4
12A13-1	11
12A13-15	15

Clamp plate

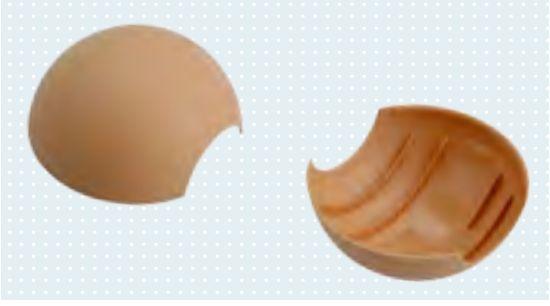
Article no. 13G68

The clamp plate is available in colour 4.

Elbow components and accessories

Lamination ring

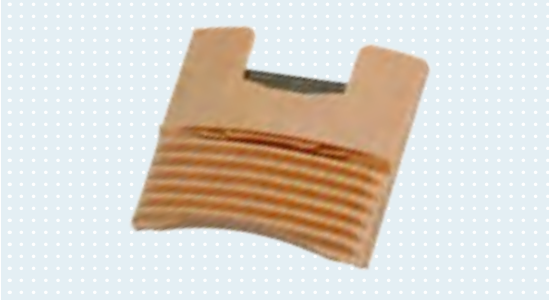
Article no. 13Z47



Ball cap

Article no. 13Z48

Article no.	Colour
13Z48	4
13Z48-1	11
13Z48-2	15



Thread segment

Article no. 13Z50

The thread segment is available in colour 4.

Hole covering

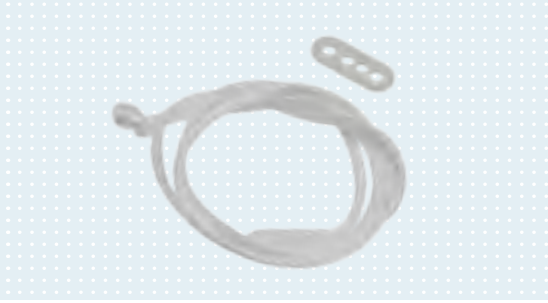
Article no. 13Z51

The hole covering is available in colour 4.

Elbow components and accessories

Spring telescope
Article no. 13Z52

Switch cable
Article no. 13Z53



Lamination protection cover
Article no. 13Z55

Bracket cover
Article no. 13Z56

Article no.	Colour
13Z56	4
13Z56-1	11
13Z56-2	15

Elbow components and accessories

Pressure piece

Article no. 13Z57

The pressure piece is available in colour 4.

Eccentric

Article no. 13Z58

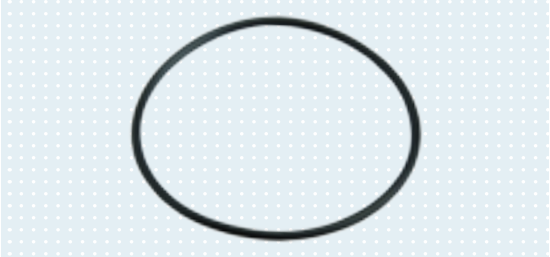
The eccentric is available in colour 4.

Countersunk head screw

Article no. 501S84=M4X20

Countersunk head screw

Article no. 501S101=M4X12



O-ring

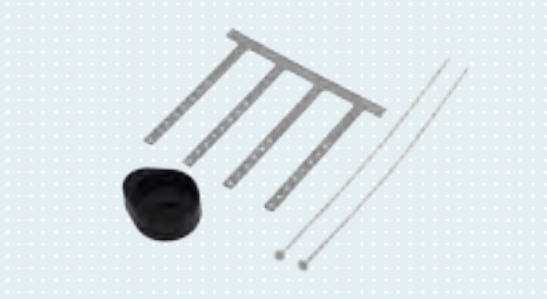
Article no. 627F13=60X2.5

Elbow components and accessories

Alignment aid for ErgoArm

Article no. 743A23

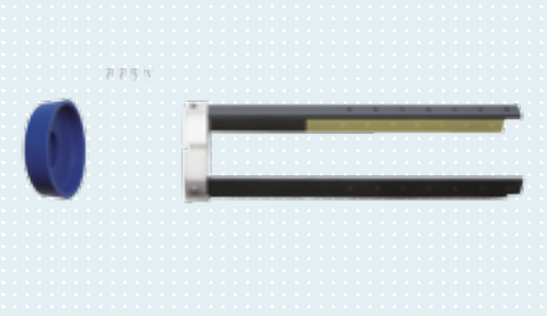
The alignment and foaming aid allows the alignment of an interim prosthesis for functional training in the rehabilitation phase.



Alignment aid for DynamicArm

Article no. 743A27

Alignment and foaming aid allows the alignment of an interim prosthesis for functional training in the rehabilitation phase.



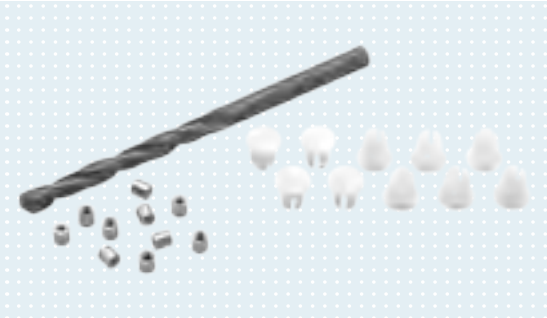
Clamp stopple set

Article no. 21A207

The set is used to connect an ErgoArm forearm (article no. 12K48=* or 12K49=*) to the flexion cable of a triple-control above-elbow harness (article no. 21A35).

Consisting of

- Clamp stopple (10 pieces)
- Threaded nut, short (10 pieces)
- Twist drill, diameter: 5.5 mm (1 piece)



Adapter

Article no. 13Z68

The adapter is used to mount an Ottobock elbow component (article no. 12K50) on a Hosmer lamination ring.

Elbow components and accessories

647G470

Elbow component with cable lock

Article no. 12K27

Thanks to the exterior joint construction and special technology for interior and exterior rotation of the forearm, this joint allows the distal residual limb to reach up to the joint ball. As a result, it is suitable for all residual limb lengths including elbow disarticulation. With single-sided, rotatable cable lock (18 locking positions in approx. 7.2° increments) and upper arm rotation joint (humeral rotation feature) with lamination ring. The beige elbow component made of plastic has a length of 270 or 300 mm and a circumference of 260 or 300 mm. The elbow ball is made of beige plastic (corresponds to skin colour 4).

Article no.	Size	Upper arm connection diameter	Lamination ring diameter	Medial joint diameter
12K27=58X45	6 ¾ – 7 ¼	70 mm	45 mm	58 mm
12K27=58X50	7 ¾ – 8	70 mm	50 mm	58 mm
12K27=78X45	6 ¾ – 7 ¼	90 mm	45 mm	78 mm
12K27=78X50	7 ¾ – 8	90 mm	50 mm	78 mm

Pull cable

Article no. 16Y26

The pull cable with threaded connection is a spare part for the elbow component (article no. 12K27) and the elbow joint bars (article no. 16X12 and 16X13).

Perlon cable

Article no. 21A18

Perlon cable with a diameter of 2 mm.

Article no.	Length	Order by
21A18=2X1	1 m	linear metres
21A18=2X5	5 m	linear metres
21A18=2X10	10 m	linear metres
21A18=2X25	25 m	linear metres

Elbow components and accessories

Elbow component with passive lock

Article no. 12K5

Elbow component with manual elbow locking (13 locking positions in approx. 8° increments) and upper arm rotation joint (humeral rotation feature). The plastic forearm shell has a length of approx. 270 mm and a circumference of approx. 245 mm. The elbow ball is made of beige plastic (corresponds to skin colour 4). It has a feedthrough for the 9E185=50-1 extension cable for simple myoelectrically controlled prostheses.

Article no.	Size	Upper arm connection diameter	Lamination ring diameter
12K5=45	6 ¾ – 7 ¼	67 mm	45 mm
12K5=50	7 ¾ – 8 ¼	67 mm	50 mm

647G469

Elbow component with passive lock

Article no. 12K20

Elbow component with manual elbow locking (13 locking positions in approx. 8° increments) and upper arm rotation joint (humeral rotation feature). The plastic forearm shell has a length of approx. 270 mm and a circumference of approx. 245 mm. It is made of dark brown plastic (corresponds to skin colour 15). It has a feedthrough for the 9E185=50-1 extension cable for simple myoelectrically controlled prostheses.

Article no.	Size	Upper arm connection diameter	Lamination ring diameter
12K20=45	6 ¾ – 7 ¼	67 mm	45 mm
12K20=50	7 ¾ – 8	67 mm	50 mm

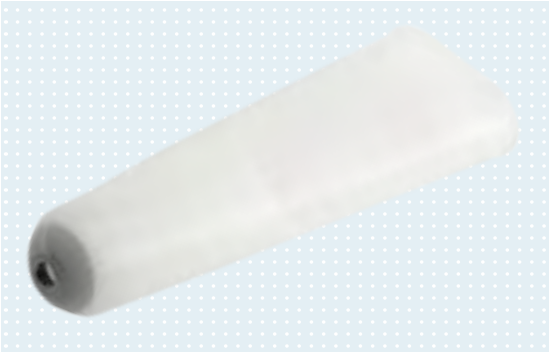
647G469

Lamination ring

Article no. 13G8=67

Lamination ring with an exterior diameter of 67 mm. Compatible with the elbow components article no. 12K5 and 12K20 and the modular kit article no. 12R6.

Liners and accessories



647H323

Silicone ArmLiner

Article no. 14Y1

The residual limb socket is of the utmost importance for the quality and comfort of an Upper Limb prosthesis. Using Ottobock ArmLiners, which were developed especially for the needs of Upper Limb prosthetics, clearly improves wearer comfort, ensures good residual limb adhesion and reduces frictional forces. An elbow envelopment can potentially be omitted if there is an adequate residual limb length. This enables unrestricted pronation and supination. For the fitting of below-elbow and above-elbow residual limbs.

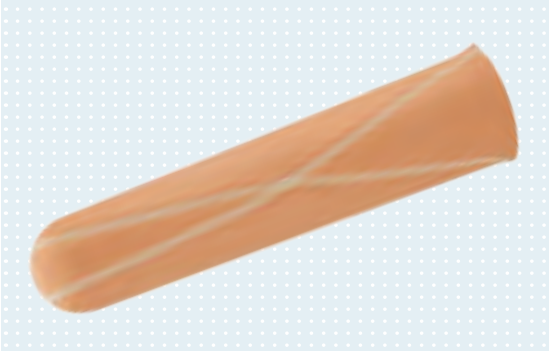
Key features at a glance

- Resistant to water, perspiration and weather
- Odour-neutral
- Good adhesion

Measure correctly!

- For correct size selection, measure the circumference 3 cm proximal from the end of the residual limb. Subtract 1 to 2 cm from the measured circumference according to the soft tissue situation.

Article no.	Length	Circumference 1	Circumference 2
14Y1=110	200 mm	110 mm	150 mm
14Y1=140	200 mm	140 mm	160 mm
14Y1=160	200 mm	160 mm	180 mm
14Y1=180	200 mm	180 mm	200 mm
14Y1=200	200 mm	200 mm	220 mm
14Y1=220	200 mm	220 mm	240 mm



647G772

IntoLiner Acclimate

Article no. 14Y3

Combined with a custom-made frame socket, the IntoLiner Acclimate constitutes the connection between the residual limb and the arm prosthesis. Wearer comfort is improved by the breathable, moisture wicking and antibacterial textile material. It equalises heat and cold. In order to fully benefit from these features, we recommend fabricating a custom frame socket. An example can be found in the 646T3=3.5* technical information. For fitting below-elbow residual limbs with a residual limb length of 10 cm and up.

Key features at a glance

- Temperature equalising
- Moisture wicking, breathable and antibacterial
- Available in various sizes
- Adjustable to the residual limb length
- Washable at 30° C

Measure correctly!

- For correct size selection, measure the circumference 3 cm proximal from the end of the residual limb. Subtract 1 to 2 cm from the measured circumference according to the soft tissue situation.

Article no.	Length	Circumference 1
14Y3=140	290 mm	140 mm
14Y3=160	290 mm	160 mm
14Y3=180	290 mm	180 mm
14Y3=200	290 mm	200 mm
14Y3=220	290 mm	220 mm

- The colour of the liner corresponds approximately to colour 4 of the 646M3 Ottobock prosthetic glove colour scale.

Liners and accessories

Skeo Up

Article no. 14Y5

647G323

The further development of the proven Silicone ArmLiner (article no. 14Y1), complemented by components of the Skeo range for the lower limbs: Skeo Up (article no. 14Y5). A non-adhesive outer coating was applied to this liner, eliminating the need for donning spray and making it much easier to put on and take off. The roughened interior contour also reduces the perception of perspiration and feels comfortable on the skin. The new matrix improves tear resistance by reducing the lengthwise elongation. A pin is used to establish the connection to the lock built into the prosthetic socket.

Key features at a glance

- Suitable for residual limb sockets from a residual limb length of 10 cm on the upper arm and forearm
- Easier to put on and take off thanks to a special outer coating
- Very comfortable to wear due to roughened interior contour
- Highly robust thanks to new matrix
- New design

Article no.	Length	Circumference 1	Circumference 2
14Y5=110	200 mm	110 mm	150 mm
14Y5=140	200 mm	140 mm	160 mm
14Y5=160	200 mm	160 mm	180 mm
14Y5=180	200 mm	180 mm	200 mm
14Y5=200	200 mm	200 mm	220 mm
14Y5=220	200 mm	220 mm	240 mm

Measure correctly!

- For correct size selection, measure the circumference 3 cm proximal from the end of the residual limb. Subtract 1 to 2 cm from the measured circumference according to the soft tissue situation.

Lock set

Article no. 14A1

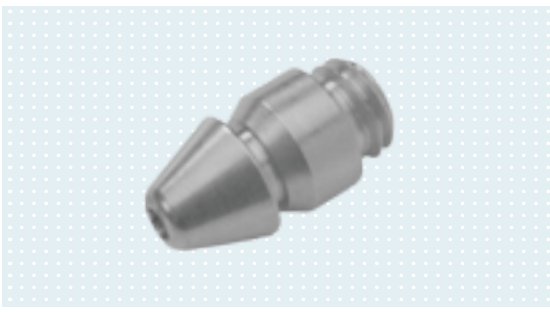
Lock set for attaching an Ottobock Silicone ArmLiner (article no. 14Y1 and 14Y5) to the prosthetic socket.

Pin

Article no. 14A107

The pin is available in various lengths.

Article no.	Length
14A107	23 mm
14A107=1	28 mm
14A107=2	33 mm



Liners and accessories

90 ml

900 ml

Donning spray

Article no. 640F18

The donning spray is needed among other things for donning and removal of the liner or prosthetic glove (silicone, PVC).

Article no.	Contents
640F18	90 ml
640F18=900	900 ml (refill)

Derma Clean

Article no. 453H10

Derma Clean cleanses gently and reliably. It is pH-neutral, free of alkali and phosphates, and features an antibacterial formula.

Article no.	Order by	Contents
453H10	6 bottles	300 ml
453H10=1	1 bottle	300 ml

Dummy set

Article no. 14A111

Dummy set for aligning a prosthesis with Ottobock Silicone ArmLiner. The set consists of a pin dummy with and without thread and a shape dummy for the lamination ring.

Lock with release pin

Article no. 14A110

Lock with release pin serves as a spare part for article no. 14A1.

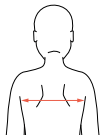
Above- and below-elbow harnesses with accessories

Transhumeral soft harness

Article no. 21A47

Ottobock offers the world's first soft harness for transhumeral prostheses with myoelectric or passive elbows. The harness, which consists of an arm sling and a sleeve, is completely removable and is not fastened to the socket with a strap. Users can put it on and take it off with one hand. Soft underarm padding and breathable materials, which are fully washable, help make the harness comfortable. The back cord guide also allows the arms to swing naturally, supporting more physiological movement. The harness is available in three sizes for both the right and left arms. Users can also make small adjustments themselves using a hook-and-loop closure.

647G1267
647G1279



Size	Side	Back width	Armhole circumference
S	L / R	30 – 36.6 cm	38 – 45.3 cm
M	L / R	36.6 – 43.2 cm	45.3 – 52.6 cm
L	L / R	43.2 – 50 cm	52.6 – 60 cm

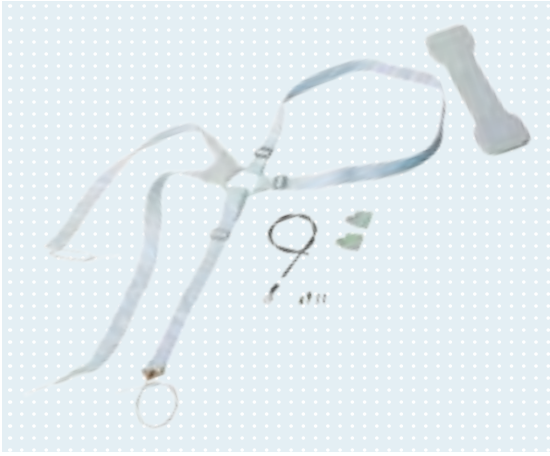
Order no.: article no.=side-size-colour. Ordering example: 21A47=L-S-1

Triple-control above-elbow harness

Article no. 21A35

The triple-control above-elbow harness is used to secure the prosthetic socket and control body-powered prostheses. It is suitable for prostheses on the right and left sides.

Article no.	Version
21A35=1	with perlon cable
21A35=2	with steel cable



647H455

5

Above- and below-elbow harnesses with accessories

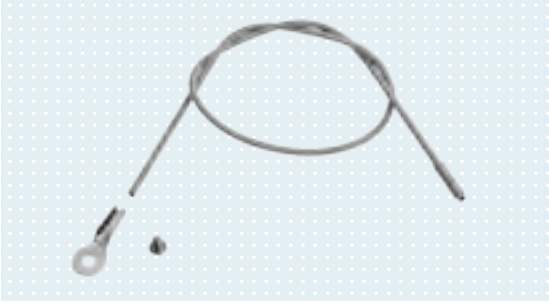
647H455

Below-elbow harness

Article no. 21A36

The below-elbow harness is intended for fixation of the prosthetic socket and for control of body-powered prostheses. It is suitable for prostheses on the right and left sides.

Article no.	Version
21A36=1	with perlon cable
21A36=2	with steel cable



Bowden cable

Article no. 21A37=1

The Bowden cable is a spare part for article no. 21A35. Spiral length: 500 mm.

Ball-shaft adapter

Article no. 10Y31

The ball-shaft adapter forms a connection element with the coupler, article no. 10Y32=*.

Article no.	Compatible with
10Y31=1	21A18=2 Perlon cable
10Y31=2	651D4=2 Steel cable
10Y31=7	3/64" steel cable
10Y31=8	1/16" steel cable
10Y31=9	3/32" steel cable

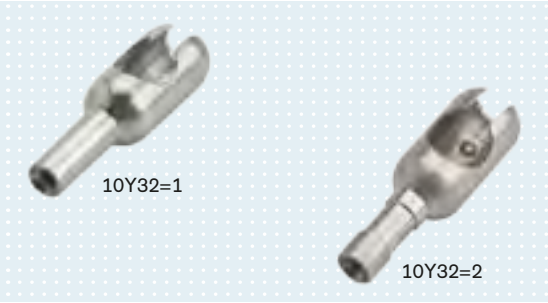
Above- and below-elbow harnesses with accessories

Coupler

Article no. 10Y32

The coupler forms a connection element with the ball-shaft adapter (article no. 10Y31=*).

Article no.	Compatible with
10Y32=1	21A18=2 Perlon cable
10Y32=2	651D4=2 Steel cable



Ring

Article no. 21Y194

Harness ring with integrated cable guide.

Stainless steel buckle

Article no. 21Y195=25

Stainless steel buckle for positioning and fixing the harness strap.

Connecting bracket

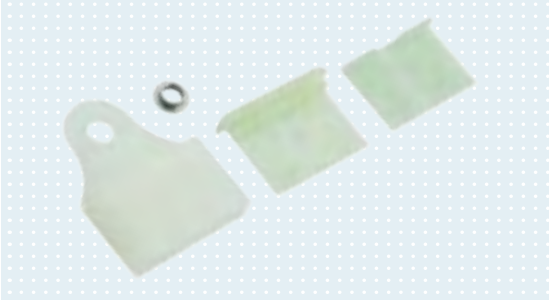
Article no. 21Y197=1

Above- and below-elbow harnesses with accessories

Axilla pad set

Article no. 21A38

Axilla pad set in white. Contents: 5 pieces.



Strap buckle

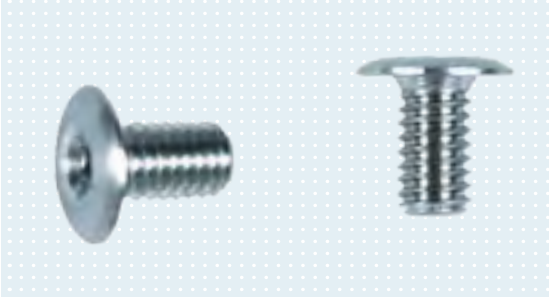
Article no. 21Y199

Strap buckle for a seamless connection of the elastic harness strap (article no. 623G23) to the prosthetic socket. Consisting of sleeve, lower part, upper part and spacer sleeve.

Spacer sleeve

Article no. 21Y203

Spacer sleeve for strap buckle (article no. 21Y199).



Socket screw with Allen head

Article no. 503F3

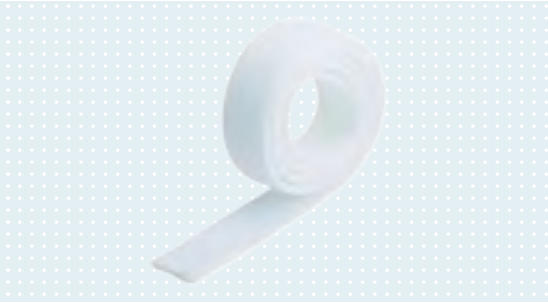
Socket screw (contents: 2 pieces) with Allen head. With M4 thread (length 7 mm). The head diameter is 8 mm.

Above- and below-elbow harnesses with accessories

Elastic harness strap

Article no. 623G23

Elastic harness strap in white with tunnel-shaped cable guide.
Order by the metre



Harness strap

Article no. 623H23

White harness strap. Order by the metre

Perlon cable

Article no. 21A18

Perlon cable with a diameter of 2 mm.

Article no.	Length	Order by
21A18=2X1	1 m	linear metres
21A18=2X5	5 m	linear metres
21A18=2X10	10 m	linear metres
21A18=2X25	25 m	linear metres

Setting nut

Article no. 29C5

Setting nut (knurled), stainless steel.

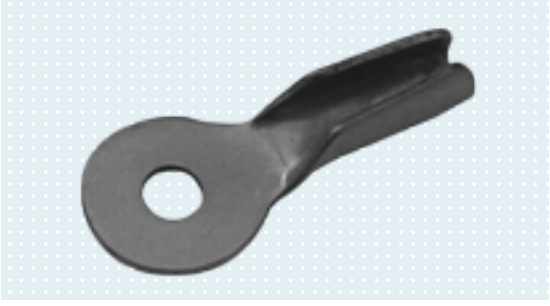
Article no.	Thread	Length	Head diameter	Stud diameter
29C5=M4X9	M4	3.6 mm	9 mm	5.5 mm
29C5=M5X18	M5	3.6 mm	18 mm	6.5 mm

Above- and below-elbow harnesses with accessories

Countersunk head screw

Article no. 501S28=M3.5X5

Nickel-plated countersunk head screw for article no. 16H1 and 16H2.



Eyelet cable anchor, large

Article no. 21A5

“D” ring

Article no. 21A16

“D” ring with a clearance width of 13 mm for flexion cable.

Lamination disc, serrated

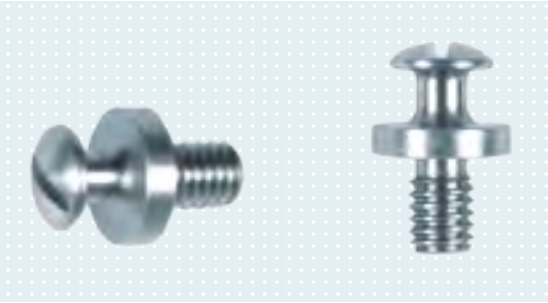
Article no. 507S15

Serrated lamination disc with bore (diameter: 3 mm). Exterior diameter 13.8 mm (contents: 2 pieces).

Above- and below-elbow harnesses with accessories

Threaded support fastener
Article no. 516S3

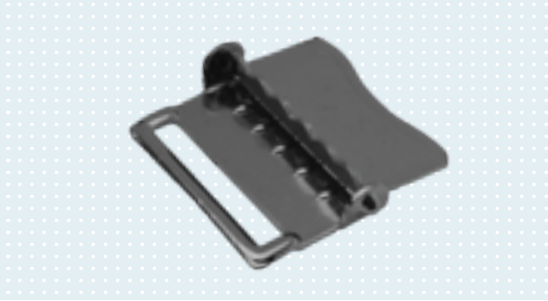
Threaded support fastener with M4 thread and a thread length of 5.5 mm.



Loop
Article no. 514Z3=25

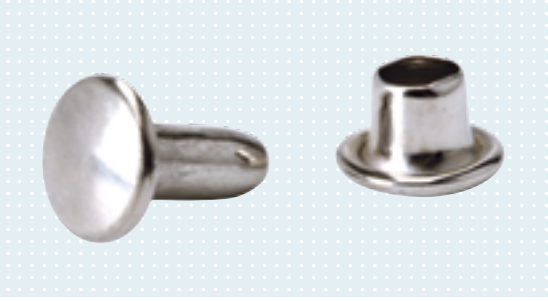
Loop with a clearance width of 25 mm.

Clamp buckle
Article no. 514K3=27



Hollow rivet
Article no. 504H3=11-100

Hollow rivet with open lower part. Head diameter: 11 mm.

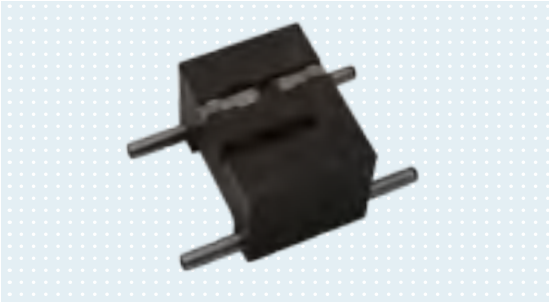


Above- and below-elbow harnesses with accessories

Screw coupling

Article no. 10Y19=2

The screw coupling serves as a connection piece between a steel cable and perlon cable or spectra cable as well as between a perlon cable and perlon cable or spectra cable. Consisting of coupling sleeve and coupling screw, to be screwed to the 21A18=* perlon cable or through which a spectra cable is to be threaded and then knotted.



Clamping tool

Article no. 736Y6

Clamping tool for crimping the coupling screw and clamp sleeve as well as the ball shaft fitting (article no. 10Y31=2) and coupler (article no. 10Y32=2) on the steel cable (article no. 651D4=2).

647H13

Notes


ROCK'N
ROLL
REVIVAL

Body-Powered

Modular arm components

Clever connection

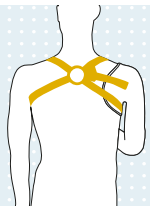
Tube skeleton designs with foam covers are characteristic for the modular system in Upper Limb prosthetics. This design is used primarily for fittings with passive arm prostheses for proximal amputation levels.
Corresponding modular arm components are available for transhumeral amputations at various residual limb lengths; they are connected to the prosthetic socket by a lamination ring and then concealed by a foam cover.

On the following pages you will find

- Overview of passive mechanical arm components
- Terminal devices and accessories
- Prosthetic gloves
- Adapter
- Terminal device and colour determination
- Physolino baby hand and accessories
- Passive prosthetic hands for children
- Passive prosthetic hands for women
- Passive prosthetic hands for men
- Modular arm components
- Shoulder joints and accessories
- Elbow joint bars
- Liners and accessories
- Body harnesses and accessories

Overview of passive mechanical arm components

Body harness



Triple-control above-elbow harness
21A35

Below-elbow harness
21A36

Liner

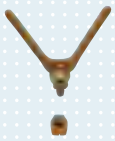
Skeo Up
14Y5

IntoLiner Acclimate
14Y3

Silicone ArmLiner
14Y1

Shoulder

Shoulder joint

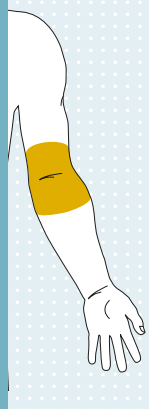


Ottobock ball shoulder joint
12S7

Ottobock shoulder joint
12S4

MovoShoulder Swing
12S6

Elbow

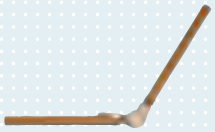


12R6 Modular transhumeral kit

Modular arm component
12R2 for short above-elbow residual limbs

Adapter
13R6

12R7 Modular shoulder disarticulation kit



Modular arm component
12R4 for shoulder disarticulation

Adapter
13R7

15K10 Modular foam kit

Pre-shaped foam block
15K3

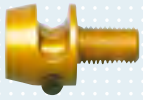
Mounting flange
13R8

Wrist joint

Wrist joint connection

For system hands
10R2 Adapter

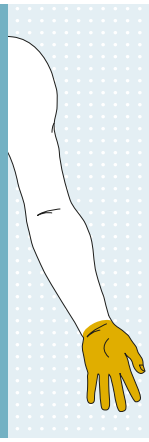
For system hands
10R3 Adapter with flexion



For passive prosthetic hands
10R1 Adapter

For passive prosthetic hands
10R4 Knurled plate

Terminal device



Hands and prosthetic gloves

Passive prosthetic hand
Inner hand
8S7
8S8
8S9

Prosthetic glove
8S4
8S5
8S6

Passive system hand
8K18
8K19

Prosthetic glove
8S4 = 190X76
8S4 = 210X78
8S4 = 220X80
8S5 = 195X78
8S6 = 170X65

Passive system hand

Article no. 8K18/8K19

The passive system hand is suitable for all residual limb lengths with passive prostheses. It is opened with the sound hand and closes independently. The system is lightweight and stable. With threaded stud (article no. 8K18: M12X1.5, 8K19: ½"-20) and system inner hand. Available in sizes 6 ¾ (children), 7 ¼ (adolescents and women), 7 ¾ and 8 (men).

647G444

Article no.	Side	Size	Inner hand	Approx. weight
8K18=L6 ¾	Left (L)	6 ¾	8X14=L6 ¾	185 g
8K18=L7 ¼	Left (L)	7 ¼	8X14=L7 ¼	250 g
8K18=L7 ¾	Left (L)	7 ¾	8X14=L7 ¾	280 g
8K18=L8	Left (L)	8	8X14=L8	290 g
8K18=R6 ¾	Right (R)	6 ¾	8X14=R6 ¾	185 g
8K18=R7 ¼	Right (R)	7 ¼	8X14=R7 ¼	250 g
8K18=R7 ¾	Right (R)	7 ¾	8X14=R7 ¾	280 g
8K18=R8	Right (R)	8	8X14=R8	290 g

Article no.	Side	Size	Inner hand	Approx. weight
8K19=L6 ¾	Left (L)	6 ¾	8X14=L6 ¾	185 g
8K19=L7 ¼	Left (L)	7 ¼	8X14=L7 ¼	250 g
8K19=L7 ¾	Left (L)	7 ¾	8X14=L7 ¾	280 g
8K19=L8	Left (L)	8	8X14=L8	290 g
8K19=R6 ¾	Right (R)	6 ¾	8X14=R6 ¾	185 g
8K19=R7 ¼	Right (R)	7 ¼	8X14=R7 ¼	250 g
8K19=R7 ¾	Right (R)	7 ¾	8X14=R7 ¾	280 g
8K19=R8	Right (R)	8	8X14=R8	290 g

The prosthetic glove must be ordered separately. See pages 179–181.

Terminal device and accessories

Lamination ring

Article no. 9E94

Lamination ring available for hand sizes 6 ¾, 7 ¼, 7 ¾ and 8.

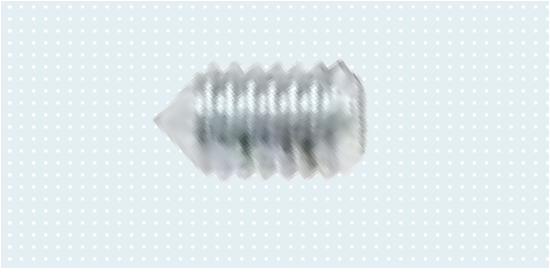
Article no.	Diameter	Size
9E94=44	44 mm	6 ¾
9E94=50	50 mm	7 ¼, 7 ¾ and 8

Chassis

Article no. 9S96 / 9S184

Chassis for excessively long forearm and wrist disarticulation residual limbs. Compatible with lamination ring (article no. 9E94).

Article no.	Diameter	Size
9S96=40	40 mm	6 ¾
9S184=44-N	44 mm	7 ¼
9S184=48-N	48 mm	7 ¾ and 8



Set screw

Article no. 506G4

Set screw for chassis. Four set screws are required per chassis.

Article no.	Compatible with
506G4=M3X5	9S96=40 chassis
506G4=M4X5	9S184 chassis

Terminal device and accessories

System inner hand

Article no. 8X14

System inner hand with finger support in the little and ring finger, and retainer ring (article no. 9S187).

Article no.	Side	Size
8X14=L6 ¾	Left (L)	6 ¾
8X14=L7 ¼	Left (L)	7 ¼
8X14 =L7 ¾	Left (L)	7 ¾
8X14=L8	Left (L)	8
8X14=R6 ¾	Right (R)	6 ¾
8X14=R7 ¼	Right (R)	7 ¼
8X14=R7 ¾	Right (R)	7 ¾
8X14=R8	Right (R)	8

Lock ring, wide

Article no. 9S187

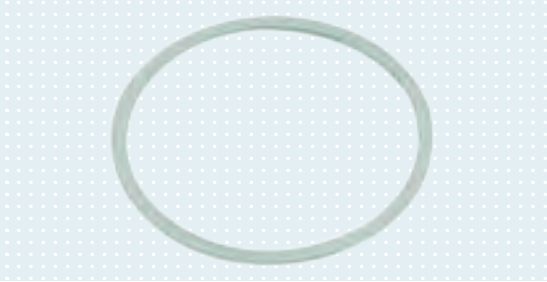
Wide lock ring. Compatible with the system inner hand (article no. 8X14) in hand sizes 7 ¼, 7 ¾ and 8.

Article no.	Size
9S187=7 ¼	7 ¼
9S187=7 ¾	7 ¾
9S187=8 ¼	8 ¼

Retainer ring

Article no. 9S15=42

Retainer ring to secure the system inner hand (article no. 8X14) size 6 ¾.



Finger and thumb cover

Article no. 9S6

Finger and thumb cover compatible with hand sizes 6 ¾, 7 ¼, 7 ¾ and 8.

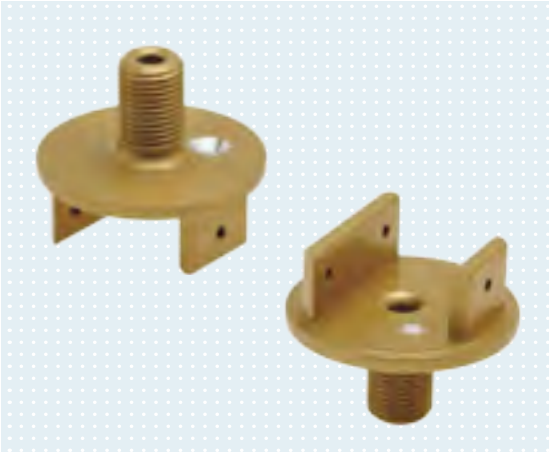
Terminal device and accessories

Chassis

Article no. 9S67

Chassis with M12X1.5 threaded stud.

Article no.	Side	Diameter	Compatible with
9S67=L40	Left (L)	40 mm	8K18=L6 ¾
9S67=L44-N	Left (L)	44 mm	8K18=L7 ¼
9S67=L48-N	Left (L)	48 mm	8K18=L7 ¾ and 8K18=L8
9S67=R40	Right (R)	40 mm	8K18=R6 ¾
9S67=R44-N	Right (R)	44 mm	8K18=L7 ¼
9S67=R48-N	Right (R)	48 mm	8K18=L7 ¾ and 8K18=L8



Chassis

Article no. 9S65

Chassis with ½"-20 threaded stud.

Article no.	Side	Diameter	Compatible with
9S65=L40	Left (L)	40 mm	8K19=L6 ¾
9S65=L44-N	Left (L)	44 mm	8K19=L7 ¼
9S65=L48-N	Left (L)	48 mm	8K19=L7 ¾
9S65=R40	Right (R)	40 mm	8K19=R6 ¾
9S65=R44-N	Right (R)	44 mm	8K19=L7 ¼
9S65=R48-N	Right (R)	48 mm	8K19=L7 ¾

Flange button head socket screw

Article no. 501T52=M3X6

The flange button head socket screw with the M3X6 thread is used to screw the chassis to the base plate of the system hand (all sizes). Two pieces are required.

Flange button head socket screw

Article no. 501T52=M3X8

The flange button head socket screw with the M3X8 thread is used to screw the chassis to the cover plate of the system hand (all sizes). One screw is required.

Prosthetic gloves

Prosthetic glove for children

Article no. 8S6*

The prosthetic glove for children is available in size 6 ¾, with long sleeve, in 18 different colours. In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin. Please add an N before the = in the article number.

Example

- 8S11=210X78L (standard glove)
- 8S11N=210X78L (Skin Natural)

Article no.	Side	Size	Sleeve length
8S6N=170X65L	Left (L)	6 ¾	300 mm
8S6N=170X65R	Right (R)	6 ¾	300 mm
8S6=170X65L	Left (L)	6 ¾	300 mm
8S6=170X65R	Right (R)	6 ¾	300 mm

The entire Skin Natural colour palette is produced with seven colours. The new 646M47 colour scale helps when selecting the right pattern.

647G468 (standard glove)
647G571 (Skin Natural)

Prosthetic glove for adolescents

Article no. 8S4=190X76

The prosthetic glove for adolescents is available in size 7 ¼, with short sleeve, in 18 different colours. In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin. Please add an N before the = in the article number.

Example

- 8S11=210X78L (standard glove)
- 8S11N=210X78L (Skin Natural)

Article no.	Side	Size	Sleeve length
8S4N=190X76L	Left (L)	7 ¼	215 mm
8S4N=190X76R	Right (R)	7 ¼	215 mm
8S4=190X76L	Left (L)	7 ¼	215 mm
8S4=190X76R	Right (R)	7 ¼	215 mm

The entire Skin Natural colour palette is produced with seven colours. The new 646M47 colour scale helps when selecting the right pattern.

647G468 (standard glove)
647G571 (Skin Natural)

Special cleaner for prosthetic gloves is found on page 248.

Prosthetic gloves

647G468 (standard glove)
647G571 (Skin Natural)

Prosthetic glove for men

Article no. 8S11=210X78

The prosthetic glove for men is available in size 7 ¾, with short sleeve, in 18 different colours. In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series.
The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin.
Please add an N before the = in the article number.

Example
- 8S11=210X78L (standard glove)
- 8S11N=210X78L (Skin Natural)

Article no.	Side	Size	Sleeve length
8S11N==210X78L	Left (L)	7 ¾	220 mm
8S11N=210X78R	Right (R)	7 ¾	220 mm
8S11=210X78L	Left (L)	7 ¾	220 mm
8S11=210X78R	Right (R)	7 ¾	220 mm

The entire Skin Natural colour palette is produced with seven colours. The new 646M47 colour scale helps when selecting the right pattern.

647G468 (standard glove)
647G571 (Skin Natural)

Prosthetic glove for men

Article no. 8S4=220X80

The prosthetic glove for men is available in size 8, with short sleeve, in 18 different colours.
In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin. Please add an N before the = in the article number.

Example
- 8S11=210X78L (standard glove)
- 8S11N=210X78L (Skin Natural)

Article no.	Side	Size	Sleeve length
8S4N=220X80L	Left (L)	8	225 mm
8S4N=220X80R	Right (R)	8	225 mm
8S4=220X80L	Left (L)	8	225 mm
8S4=220X80R	Right (R)	8	225 mm

The entire Skin Natural colour palette is produced with seven colours. The new 646M47 colour scale helps when selecting the right pattern.

Special cleaner for prosthetic gloves is found on page 248.

Prosthetic gloves

Prosthetic glove for women

Article no. 8S5=195X78

The prosthetic glove for women is available in size 7 ¼, with long sleeve, in 18 different colours. Please indicate the colour code when ordering. For available colours, please ask our customer service. In addition to the standard prosthetic glove, Ottobock also offers the models in the Skin Natural series. The multilayer structure of the gloves gives them a depth effect so that they have a very vivid appearance. The outer translucent layer allows the coloured fibres of the material to shine through. This simulates the natural vein structure of human skin. Please add an N before the = in the article number.

Example

- 8S11=210X78L (standard glove)
- 8S11N=210X78L (Skin Natural)

Article no.	Side	Size	Sleeve length
8S5N=195X78L	Left (L)	7 ¼	340 mm
8S5N=195X78R	Right (R)	7 ¼	340 mm
8S5=195X78L	Left (L)	7 ¼	340 mm
8S5=195X78R	Right (R)	7 ¼	340 mm

The entire Skin Natural colour palette is produced with seven colours. The new 646M47 colour scale helps when selecting the right pattern.

647G468 (standard glove)
647G571 (Skin Natural)

Special cleaner for prosthetic gloves is found on page 248.

Adapter

647G454

Adapter

Article no. 10R1

Adapter with M12X1.5 threaded stud to connect a passive inner hand to modular arm components.

647G454

Adapter

Article no. 10R2

Adapter with interior thread for connecting a hook or system hand to modular arm components.

Article no.	Connection diameter	Interior thread diameter
10R2=M12X1.5	20 mm	M12X1.5
10R2=½"-20	20 mm	½"-20

647G454

Adapter with flexion

Article no. 10R3

Flexion adapter with interior thread for connecting a hook or system hand to modular arm components.

Article no.	Connection diameter	Interior thread diameter
10R3=M12X1.5	20 mm	M12X1.5
10R3=½"-20	20 mm	½"-20

647G454

Knurled plate

Article no. 10R4

Knurled plate with threaded stud (bilateral) to connect a passive inner hand to the 10R2 and 10R3 adapters.

Article no.	Threaded stud	Compatible with
10R4=M12X1.5	M12X1.5	10R2=M12X1.5 Adapter 10R3=M12X1.5 Adapter with flexion
10R4=½"-20	M12X1.5, ½"-20	10R2=½"-20 Adapter 10R3=½"-20 Adapter with flexion

Adapter

Modular adapter for ArmLiners

Article no. 13R11

To connect Ottobock arm liners (article no. 14Y1 and 14Y5) to the lock set (article no. 14A1). With Ottobock modular arm component (article no. 13R11).

647G164

Terminal device and colour determination

The following illustrations of the prosthetic hands are true to the original, and will help you and your patients select an individual artificial hand. The passive prosthetic hands consist of an inner hand and prosthetic glove. The standard inner hand is foam-formed with wire reinforcement in each finger. This results in high stability at a low weight. It is universally deployable thanks to a variety of adapters. The prosthetic glove's shape, colour and surface texture simulate the natural hand down to the details. The 43 different models for children, women and men are illustrated for the right hand and are marked for identification as in the table below.

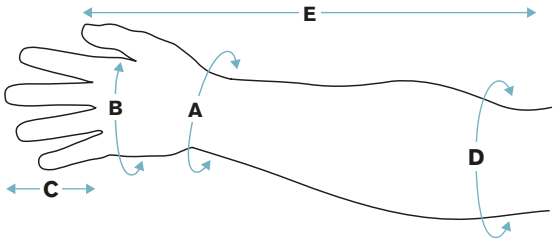
Users	Prosthetic glove	Inner hand
Children	8S6=	8S9=
Women	8S5=	8S8=
Men	8S4=	8S7=

On each page of the illustrations, the order numbers for the prosthetic glove (1st line) and inner hand (2nd line) are listed below the prosthetic hand for the left and right sides respectively.

Side	Article no.	Check no.	Article no.	Side
	8S5=165X72L	40	8S5=167X72R	
	8S8=165X72L		8S8=167X72R	

Determining the order number

To precisely determine the correct size of the prosthetic glove and inner hand for a new prosthesis or partial hand prosthesis, measure your patient's "metacarpal circumference" (B) and "middle finger length" (C) according to the following sketch.
Then determine the reference number, taking into account the measurements for the "metacarpal circumference" (B) and "middle finger length" (C).



A = wrist circumference
B = metacarpal circumference
C = middle finger length
D = sleeve circumference
E = length to elbow (not specified for short sleeve)

A	B	C	D	E
140 mm	160 mm	68 mm	200 mm	384 mm

These measurements result, for example, in the following reference number for the prosthetic glove and corresponding inner hand. The real measurement of the inner hand is reduced by the material thickness of the prosthetic glove.

8S5=	**165X72**	**L**	
8S8=			

The final step in the selection process is to select the colour shade, i.e. the colour number. The standard gloves are available in 18 different shades. Free
Original glove colour samples for standard gloves can be requested under 646M3. Use 646M47 to order the original glove colour samples for the Skin Natural series (seven shades: 2, 4, 6, 8, 11, 14, 16). The complete reference number for your order is shown in the table to the side.

8S5=	**165X72**	**L**	**6**
8S8=	**165X72**	**L**	

A "T" must be added to the reference number if the inner hand is needed for a partial hand prosthesis.

8S8=	**165X72**	**L**	**T**

Notice
Some gloves are only produced on request. Please ask your customer service representative for delivery dates.

All measurements are stated in mm. A measurement difference of ± 5 mm is reserved. The check number is always noted on the wrist of the inner hand!

Terminal device and colour determination

Prosthetic gloves and inner hands for children

Order reference number			Measurements for the left hand						Measurements for the right hand						
Prosthetic glove	Inner hand	Reference number	Metacarpal circumference (B)	Middle finger length (C)	Wrist circumference (A)	Sleeve circumference (D)	Length to elbow (E)	Check no.	Reference number	Metacarpal circumference (B)	Middle finger length (C)	Wrist circumference (A)	Sleeve circumference (D)	Length to elbow (E)	Illustration on page
8S6=	**8S9=**	**115X38L**	117	38	107	145	147	40	**115X37R**	106	35	103	133	165	190
		130X51L	120	40	106	146	205	41	**134X52R**	125	40	110	155	198	190
		142X50L	130	42	110	153	220	42	**139X51R**	130	41	110	162	225	191
		151X58L	135	50	120	166	220	44	**151X59R**	137	50	123	168	230	191
		158X54L	160	52	130	190	258	86	**159X53R**	160	57	130	185	250	192
		165X68L	160	63	134	184	280	48	**158X68R**	150	59	135	185	280	192
		168X70L	156	59	137	183	295	47	**166X70R**	160	65	140	176	300	193
		170X65L	157	54	141	188	291	43	**170X65R**	155	55	145	183	290	193

Prosthetic gloves and inner hands for women

Order reference number			Measurements for the left hand						Measurements for the right hand						
Prosthetic glove	Inner hand	Reference number	Metacarpal circumference (B)	Middle finger length (C)	Wrist circumference (A)	Sleeve circumference (D)	Length to elbow (E)	Check no.	Reference number	Metacarpal circumference (B)	Middle finger length (C)	Wrist circumference (A)	Sleeve circumference (D)	Length to elbow (E)	Illustration on page
8S5=	**8S8=**	**165X72L**	159	65	138	200	315	34	**167X72R**	163	63	131	199	330	194
		174X74L	157	63	137	190	315	32	**175X76R**	163	61	135	182	315	194
		180X80L	164	67	150	219	395	29	**176X80R**	170	69	152	217	365	195
		182X84L	167	67	143	220	345	28	**190X84R**	186	68	149	218	345	195
		184X75L	164	64	131	222	355	36	**187X74R**	183	65	143	226	325	196
		184X78L	172	66	154	223	300	37	**184X78R**	180	69	153	223	310	196
		185X75L	173	65	144	202	313	23	**181X75R**	171	65	147	206	310	197
		188X79L	183	74	156	226	345	70	**187X79R**	182	74	159	235	355	197
		190X77L	175	66	138	213	335	20	**190X77R**	183	65	144	211	330	198
		190X93L	176	80	152	220	375	30	**186X92R**	184	81	154	214	380	198
		192X78L	179	68	150	230	340	24	**191X78R**	186	69	148	231	335	199
		194X82L	165	65	159	212	345	27	**189X84R**	178	69	152	210	365	199
		195X78L	187	65	153	217	345	38	**195X78R**	187	66	150	212	335	200
		195X79L	181	66	151	230	315	25	**200X79R**	199	70	157	244	330	200
		208X89L	193	75	165	234	385	19	**210X89R**	199	75	171	238	380	201

Terminal device and colour determination

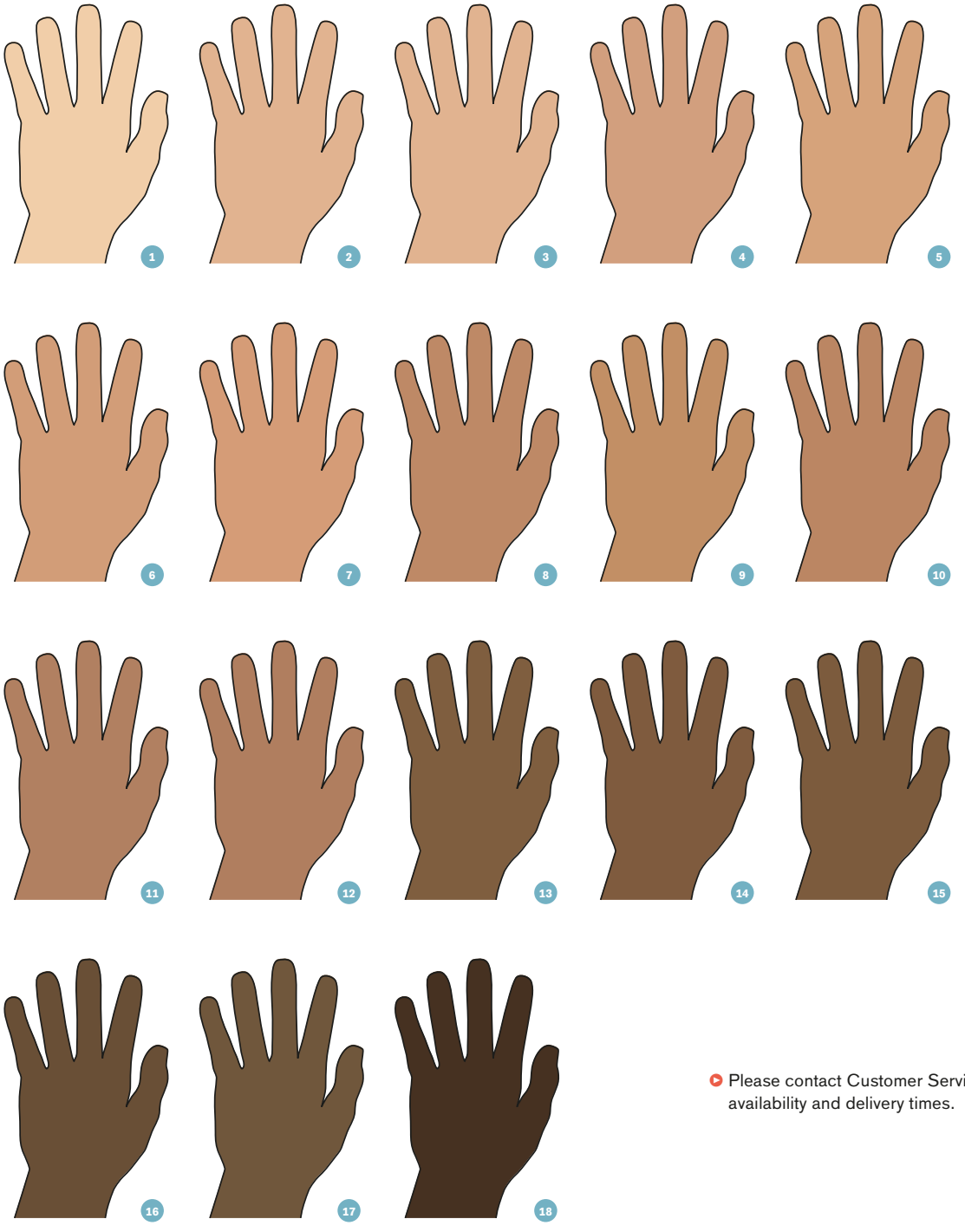
Prosthetic gloves and inner hands for men

Order reference number		Measurements for the left hand							Measurements for the right hand						
Prosthetic glove	Inner hand	Reference number	Metacarpal circumference (B)	Middle finger length (C)	Wrist circumference (A)	Sleeve circumference (D)	Length to elbow (E)	Check no.	Reference number	Metacarpal circumference (B)	Middle finger length (C)	Wrist circumference (A)	Sleeve circumference (D)	Length to elbow (E)	Illustration on page
8S4=	8S7=	**202X74L**	193	70	155	229	375	58	**206X76R**	190	70	156	220	375	202
		203X83L	190	71	158	235	350	16	**199X82R**	185	70	155	230	340	202
		203X85L	200	73	161	230	375	15	**206X85R**	190	75	162	232	375	203
		205X81L	194	70	165	224	378	5	**205X81R**	180	65	170	220	380	203
		206X80L	198	71	177	250	380	60	**205X80R**	190	73	175	225	370	204
		206X87L	190	78	151	218	360	13	**215X88R**	193	75	164	240	370	204
		207X86L	187	76	152	229	360	57	**209X86R**	194	76	155	226	380	205
		208X85L	192	70	162	233	375	12	**212X83R**	193	73	165	232	370	205
		211X88L	194	75	161	244	370	59	**212X86R**	202	80	165	240	365	206
		212X93L	194	78	157	244	410	56	**215X93R**	197	76	153	235	425	206
		213X85L	200	69	175	243	380	54	**218X85R**	195	67	180	245	390	207
		214X82L	210	69	169	252	338	17	**215X83R**	195	70	175	255	350	207
		218X85L	210	75	167	234	405	8	**218X83R**	190	70	162	237	390	208
		220X91L	210	75	175	255	410	11	**214X90R**	192	76	153	223	415	208
		221X81L	208	70	174	251	351	51	**225X82R**	210	67	173	240	360	209
		228X84L	233	73	176	250	375	53	**222X84R**	208	78	170	246	360	209
		228X88L	216	72	174	250	330	52	**228X89R**	213	77	182	255	325	210
		232X94L	220	76	173	257	420	55	**230X93R**	211	75	176	253	390	210
		238X92L	215	71	182	255	364	14	**244X94R**	207	70	179	260	370	211

Terminal device and colour determination

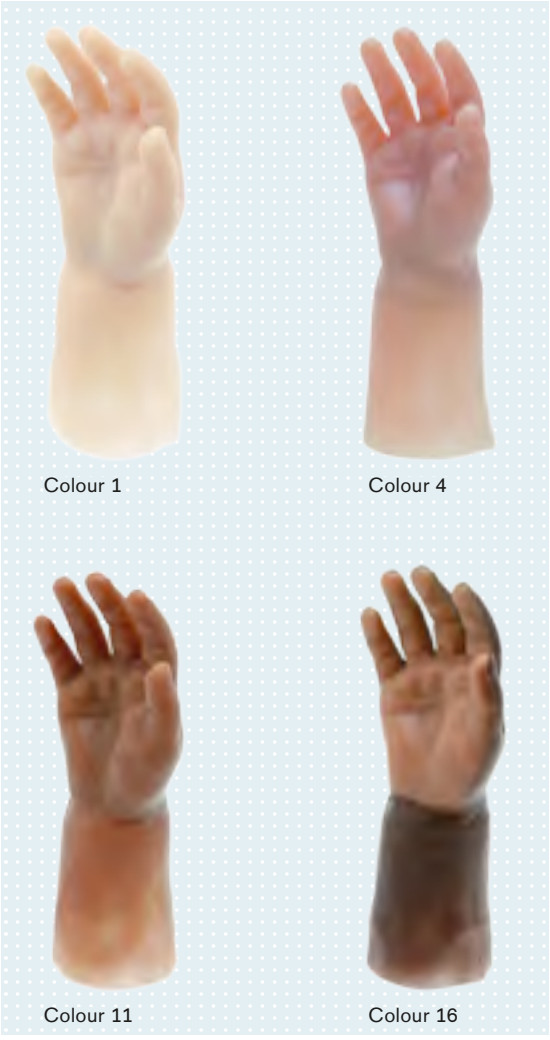
Colour determination

To determine the colour of a standard prosthetic glove, please use the 646M3 colour swatches. For a Skin Natural prosthetic glove, please use the 646M47 colour swatches. Please note that the colours shown here are only for orientation.



- Please contact Customer Service for information on availability and delivery times.

Physolino baby hand



647G360

Physolino baby hand

Article no. 8K5

Physolino baby hand for babies and toddlers. The hand is made of medical grade silicone. Suitable for a hand circumference of approx. 110 mm and a finger length of approx. 40 mm. The colour corresponds to approximately colour no. 1, 4, 11 or 16 of the Ottobock colour scale for prosthetic gloves. The Physolino baby hand is supplied with a lamination ring (article no. 11D31, diameter: 24 mm).

Article no.	Side	Colour
8K5=1L1	Left (L)	1
8K5=1L4	Left (L)	4
8K5=1L11	Left (L)	11
8K5=1L16	Left (L)	16
8K5=1R1	Right (R)	1
8K5=1R4	Right (R)	4
8K5=1R11	Right (R)	11
8K5=1R16	Right (R)	16

The lamination dummy (article no. 743Y42) for the Physolino baby hand is found on page 189, compatible prosthetic gloves on pages 184–186.

Physolino baby hand and accessories

Lamination ring for Physolino baby hand

Article no. 11D31

Lamination ring for Physolino baby hand, diameter 24 mm.
Suitable for socket replacements.

Wood hand adapter

Article no. 10A40

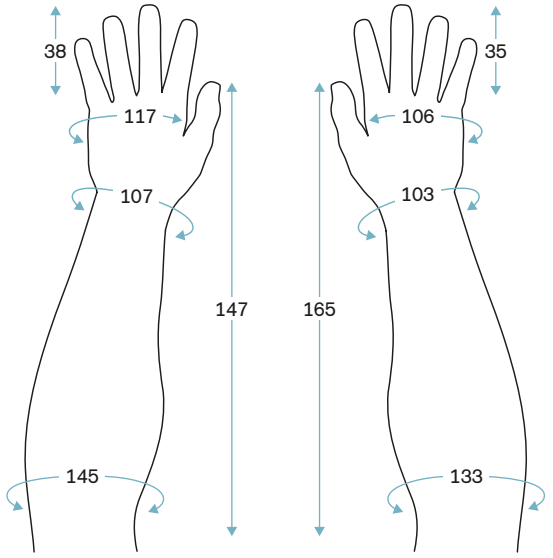
The wood hand adapter has a plastic threaded stud (M12x1.5) and is used to connect a passive inner hand to a forearm socket or elbow component. The diameter of the hand adapter is 60 mm, and modification to reduce that is possible.

Lamination dummy

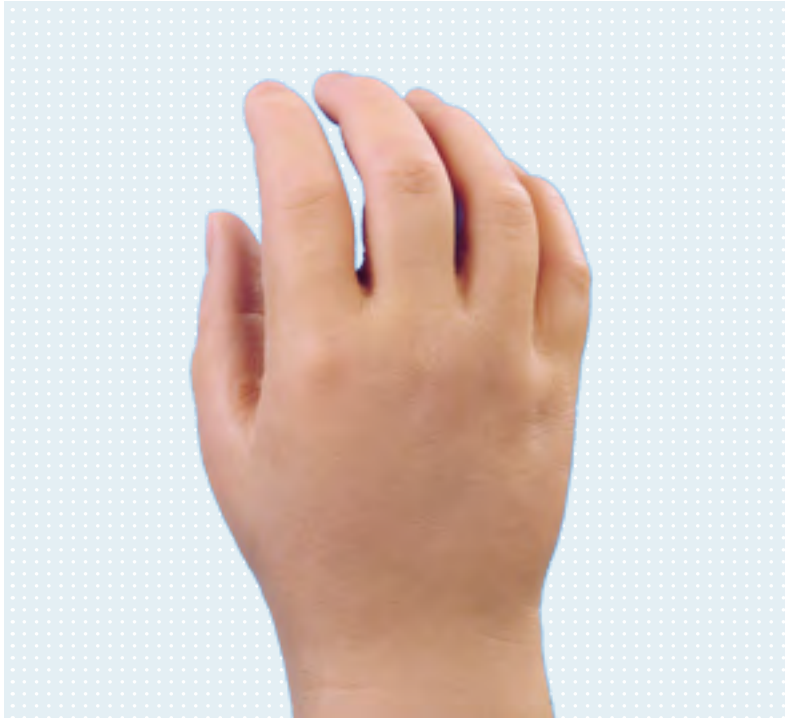
Article no. 743Y42=24

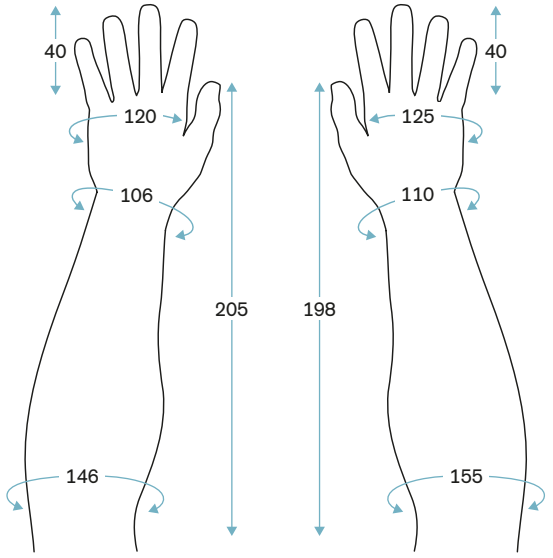
The lamination dummy can be used with the alignment rod of the alignment tool (article no. 743A18). Suitable for Physolino baby hand.

Passive prosthetic hands for children



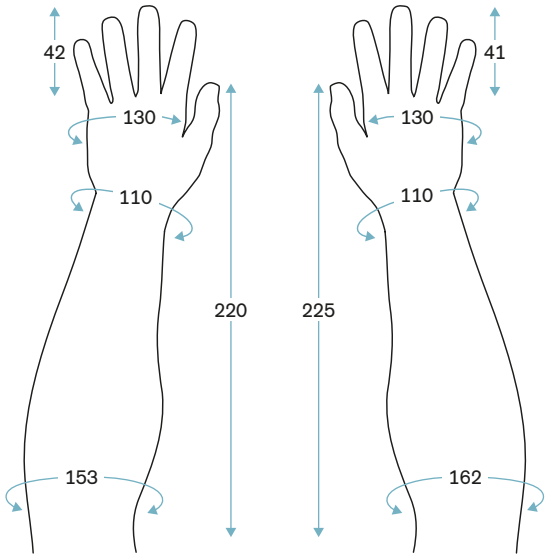
Side	Article no.	Check no.	Article no.	Side
	8S6=115X38L	40	8S6=115X37R	
	8S9=115X38L		8S9=115X37R	



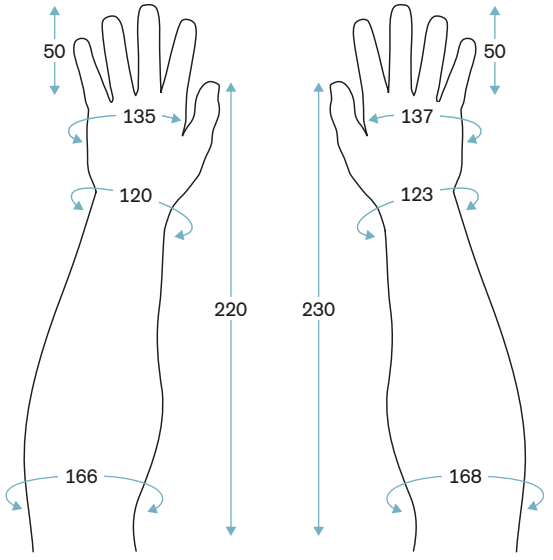


Side	Article no.	Check no.	Article no.	Side
	8S6=130X51L	41	8S6=134X52R	
	8S9=130X51L		8S9=134X52R	

Passive prosthetic hands for children



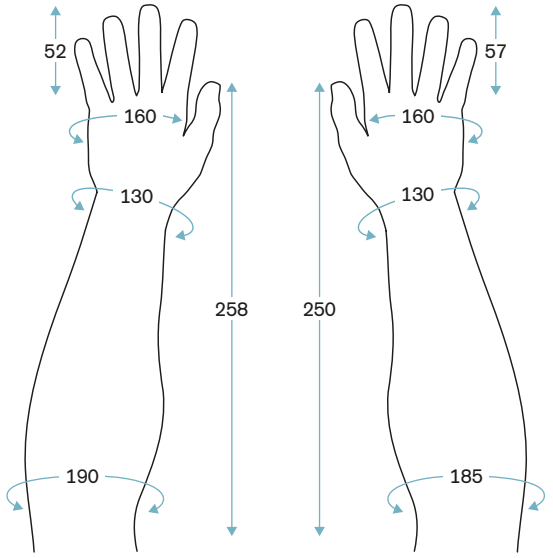
Side	Article no.	Check no.	Article no.	Side
	8S6=142X50L	42	8S6=139X51R	
	8S9=142X50L		8S9=139X51R	



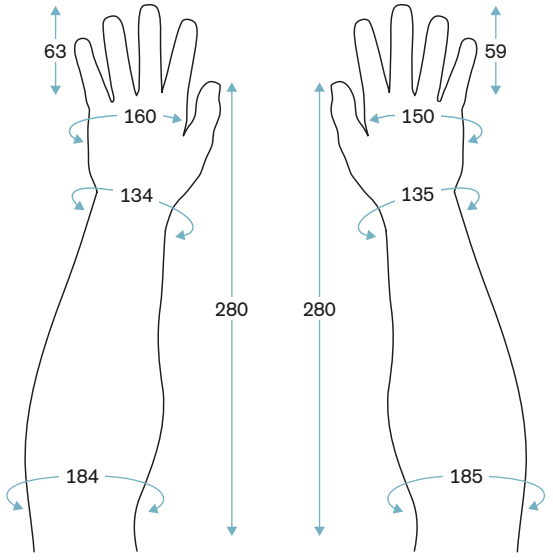
Side	Article no.	Check no.	Article no.	Side
	8S6=151X58L	44	8S6=151X59R	
	8S9=151X58L		8S9=151X59R	

6

Passive prosthetic hands for children

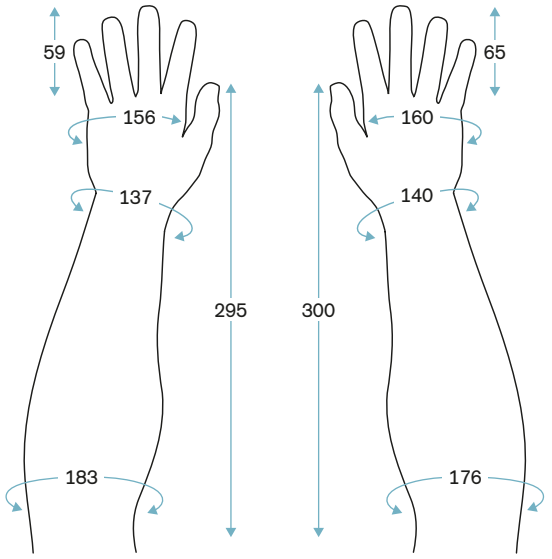


Side	Article no.	Check no.	Article no.	Side
	8S6=158X54L	86	8S6=159X53R	
	8S9=158X54L		8S9=159X53R	

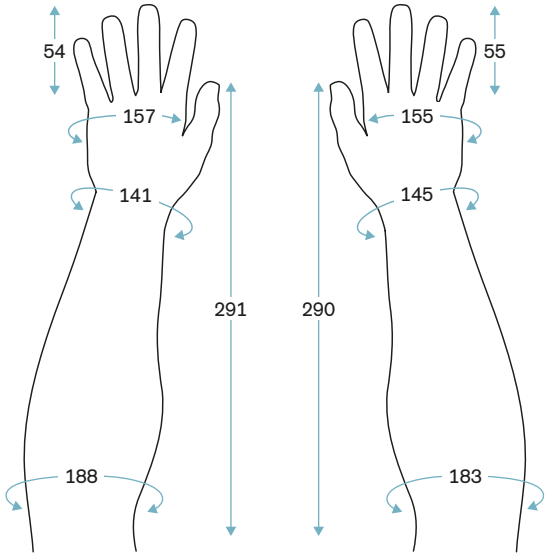


Side	Article no.	Check no.	Article no.	Side
	8S6=165X68L	48	8S6=158X68R	
	8S9=165X68L		8S9=158X68R	

Passive prosthetic hands for children



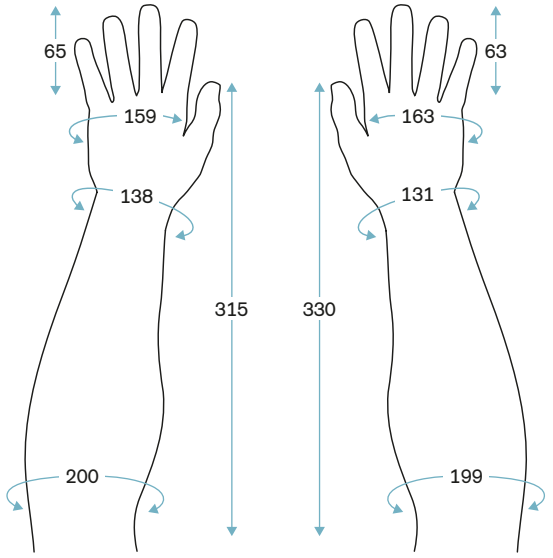
Side	Article no.	Check no.	Article no.	Side
	8S6=168X70L	47	8S6=166X70R	
	8S9=168X70L		8S9=166X70R	



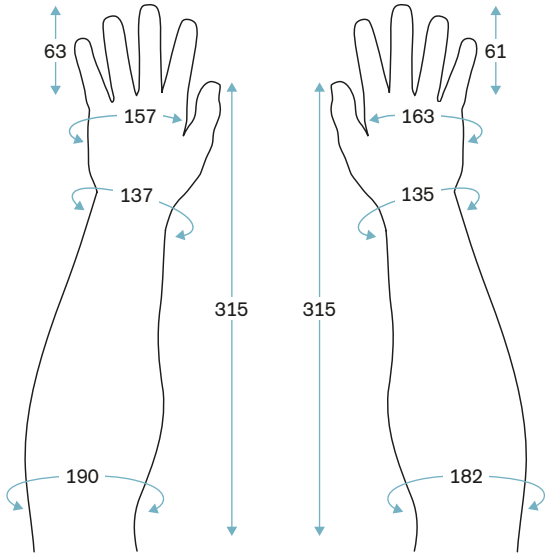
Side	Article no.	Check no.	Article no.	Side
	8S6=170X65L	43	8S6=170X65R	
	8S9=170X65L		8S9=170X65R	

6

Passive prosthetic hands for women

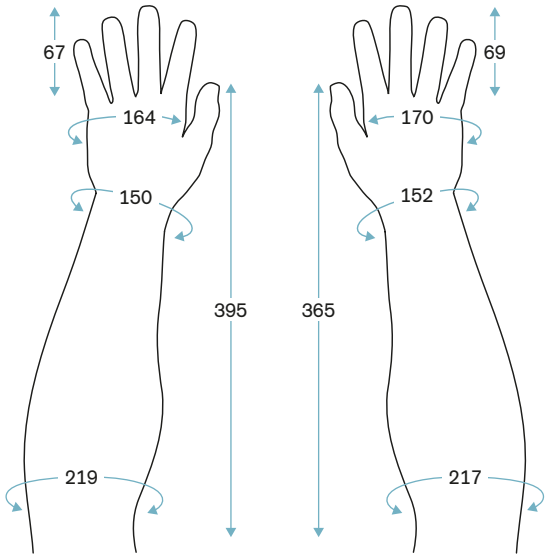


Side	Article no.	Check no.	Article no.	Side
	8S5=165X72L	34	8S5=167X72R	
	8S8=165X72L		8S8=167X72R	

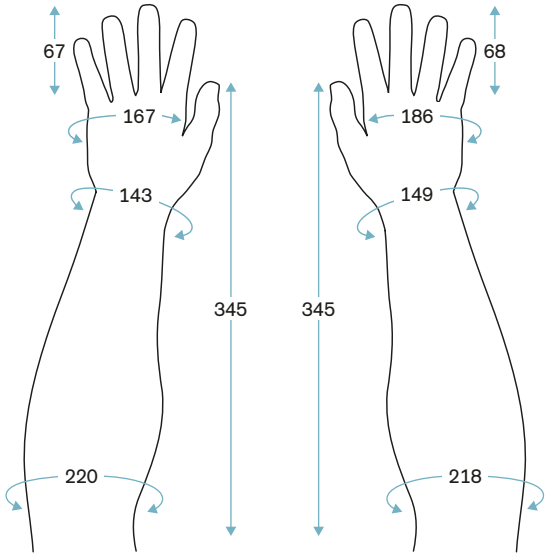


Side	Article no.	Check no.	Article no.	Side
	8S5=174X74L	32	8S5=175X76R	
	8S8=174X74L		8S8=175X76R	

Passive prosthetic hands for women



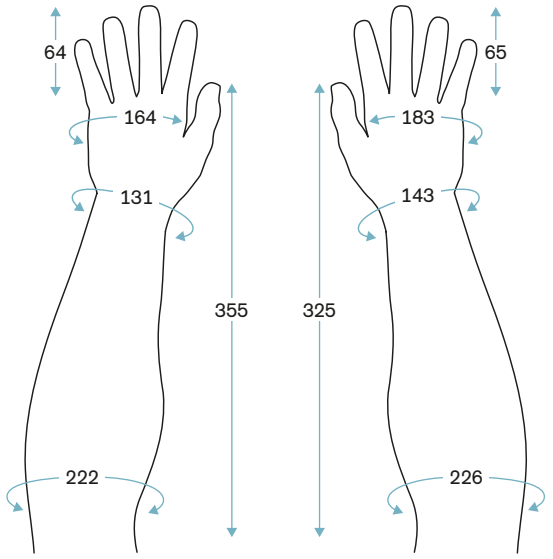
Side	Article no.	Check no.	Article no.	Side
	8S5=180X80L	29	8S5=176X80R	
	8S8=180X80L		8S8=176X80R	



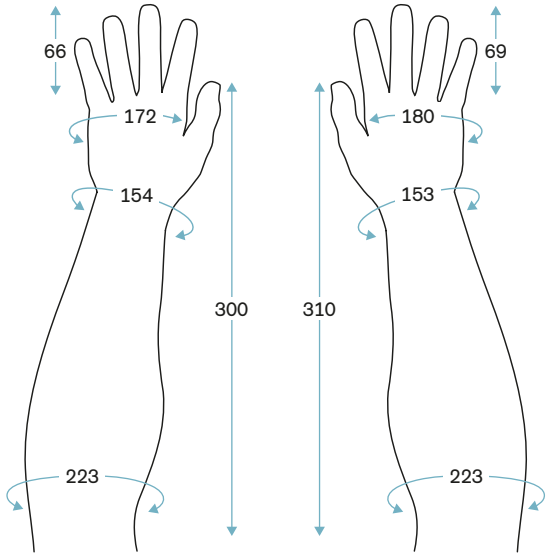
Side	Article no.	Check no.	Article no.	Side
	8S5=182X84L	28	8S5=190X84R	
	8S8=182X84L		8S8=190X84R	

6

Passive prosthetic hands for women

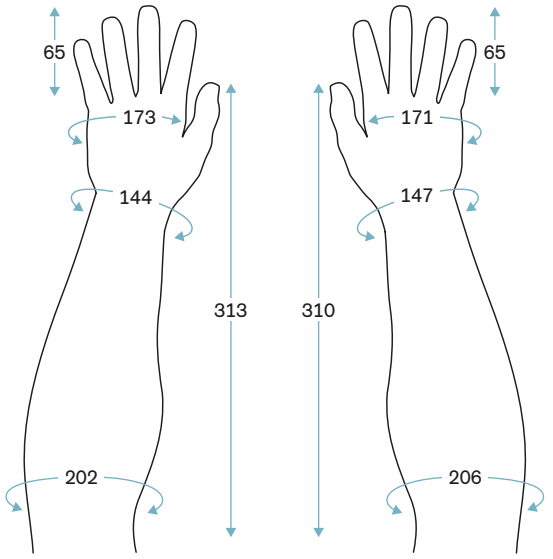


Side	Article no.	Check no.	Article no.	Side
	8S5=184X75L	36	8S5=187X74R	
	8S8=184X75L		8S8=187X74R	

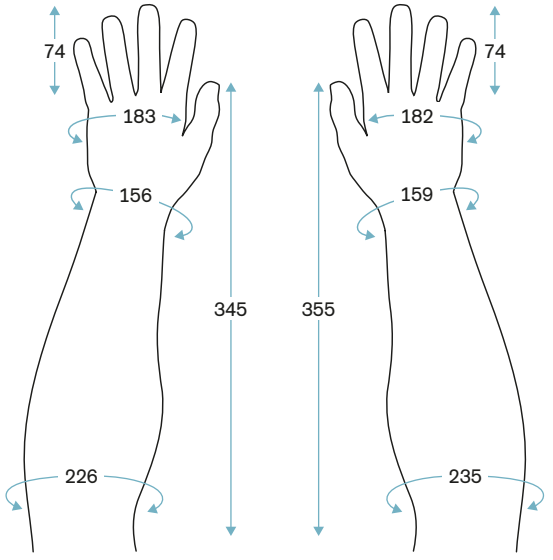


Side	Article no.	Check no.	Article no.	Side
	8S5=184X78L	37	8S5=184X78R	
	8S8=184X78L		8S8=184X78R	

Passive prosthetic hands for women



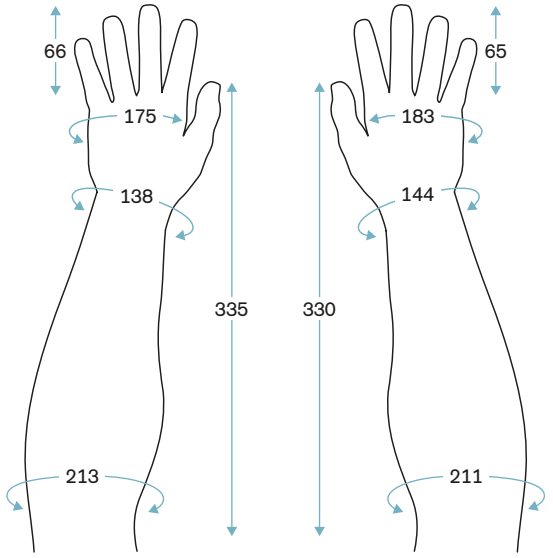
Side	Article no.	Check no.	Article no.	Side
	8S5=185X75L	23	8S5=181X75R	
	8S8=185X75L		8S8=181X75R	



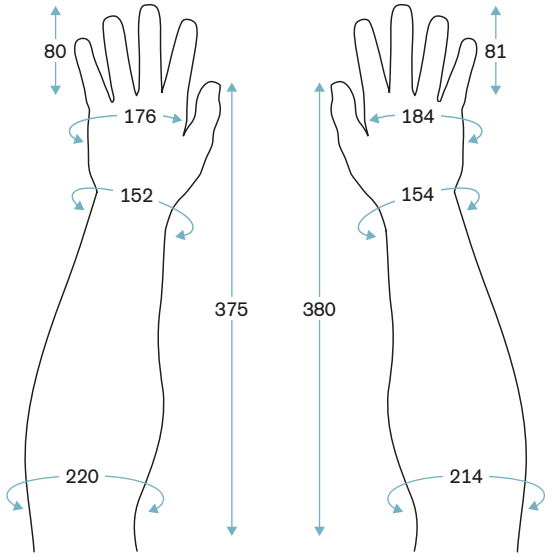
Side	Article no.	Check no.	Article no.	Side
	8S5=188X79L	70	8S5=187X79R	
	8S8=188X79L		8S8=187X79R	

6

Passive prosthetic hands for women

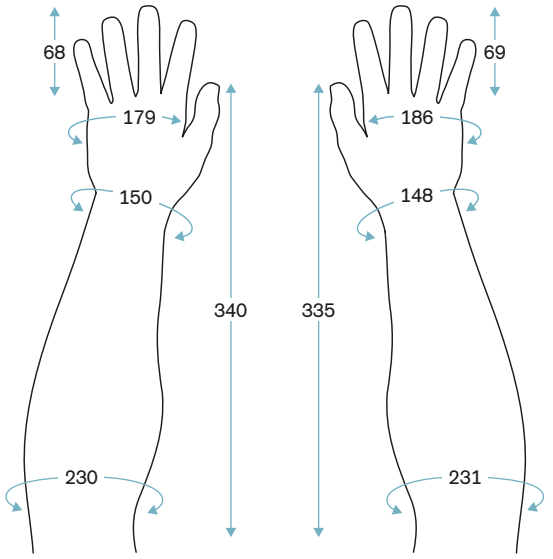


Side	Article no.	Check no.	Article no.	Side
	8S5=190X77L	20	8S5=190X77R	
	8S8=190X77L		8S8=190X77R	

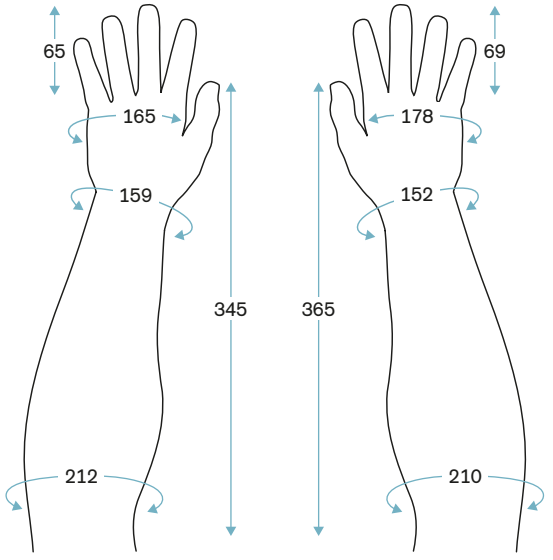


Side	Article no.	Check no.	Article no.	Side
	8S5=190X93L	30	8S5=186X92R	
	8S8=190X93L		8S8=186X92R	

Passive prosthetic hands for women

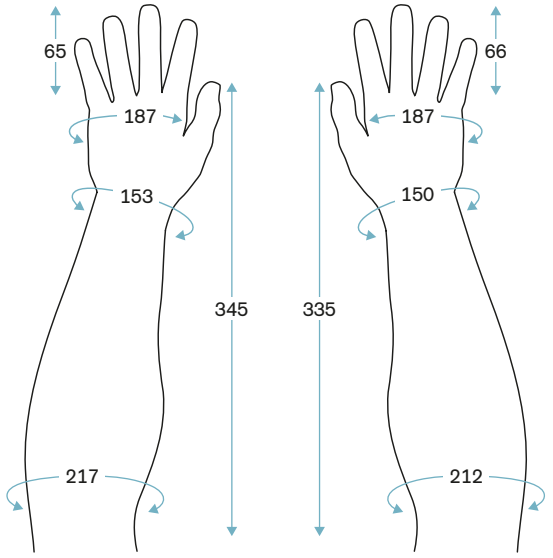


Side	Article no.	Check no.	Article no.	Side
	8S5=192X78L	24	8S5=191X78R	
	8S8=192X78L		8S8=191X78R	

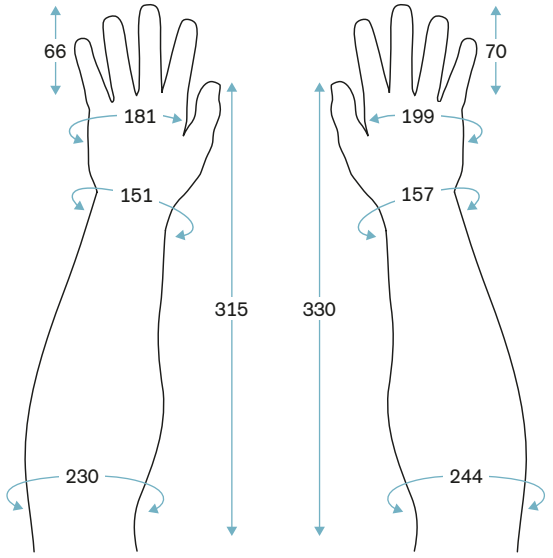


Side	Article no.	Check no.	Article no.	Side
	8S5=194X82L	27	8S5=189X84R	
	8S8=194X82L		8S8=189X84R	

Passive prosthetic hands for women

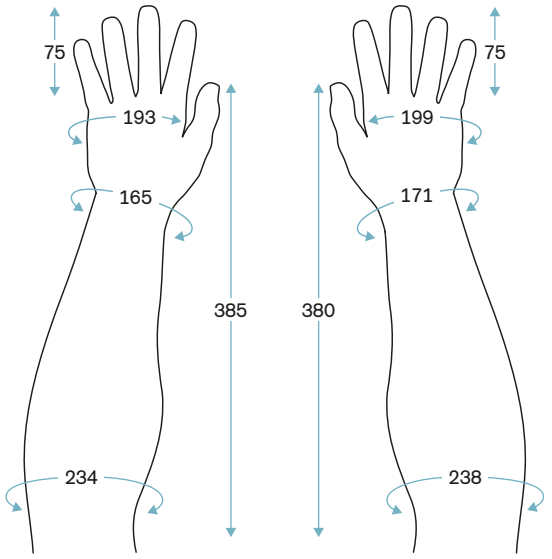


Side	Article no.	Check no.	Article no.	Side
	8S5=195X78L	38	8S5=195X78R	
	8S8=195X78L		8S8=195X78R	



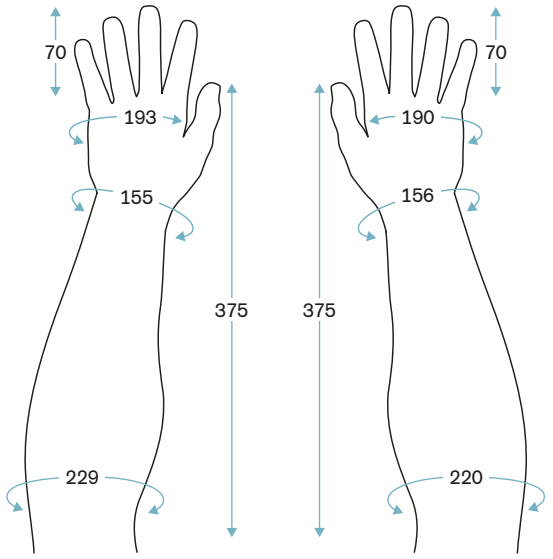
Side	Article no.	Check no.	Article no.	Side
	8S5=195X79L	25	8S5=200X79R	
	8S8=195X79L		8S8=200X79R	

Passive prosthetic hands for women

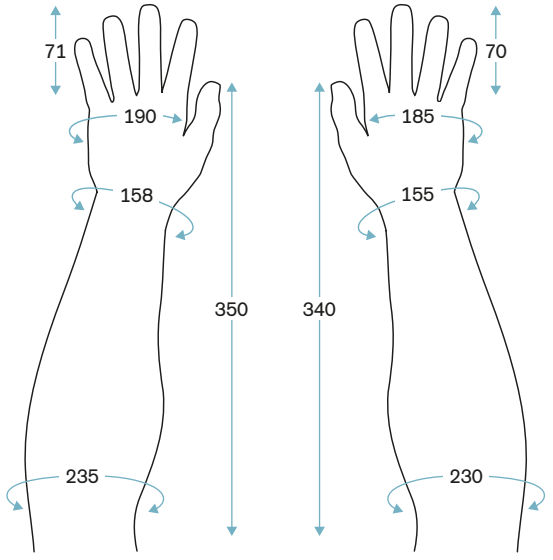


Side	Article no.	Check no.	Article no.	Side
	8S5=208X89L	19	8S5=210X89R	
	8S8=208X89L		8S8=210X89R	

Passive prosthetic hands for men

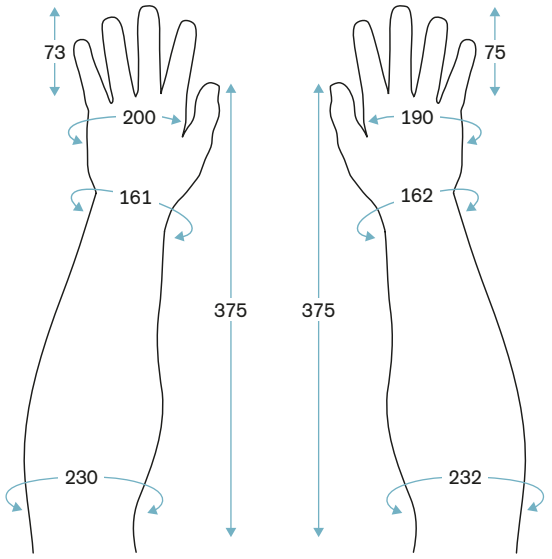


Side	Article no.	Check no.	Article no.	Side
	8S4=202X74L	58	8S4=206X76R	
	8S7=202X74L		8S7=206X76R	

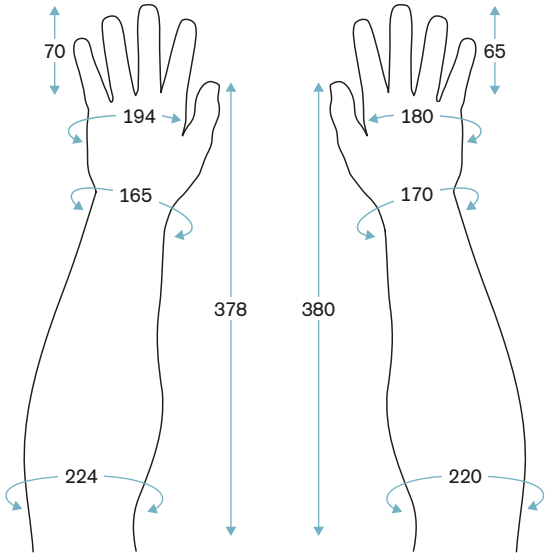


Side	Article no.	Check no.	Article no.	Side
	8S4=203X83L	16	8S4=199X82R	
	8S7=203X83L		8S7=199X82R	

Passive prosthetic hands for men



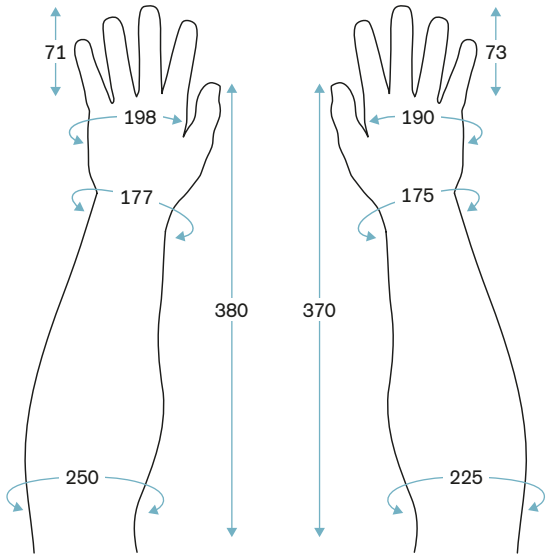
Side	Article no.	Check no.	Article no.	Side
	8S4=203X85L	15	8S4=206X85R	
	8S7=203X85L		8S7=206X85R	



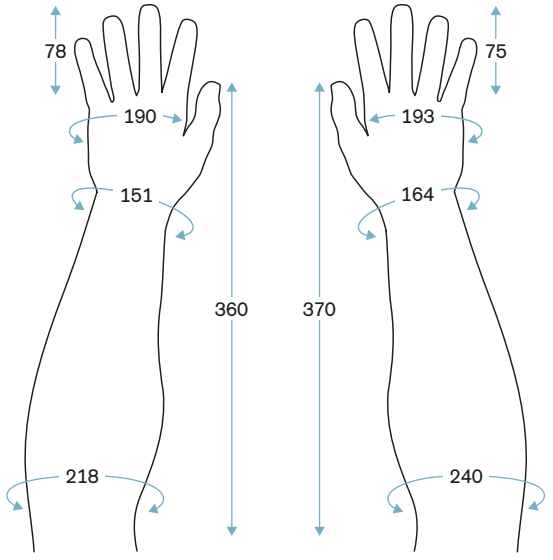
Side	Article no.	Check no.	Article no.	Side
	8S4=205X81L	5	8S4=205X81R	
	8S7=205X81L		8S7=205X81R	

6

Passive prosthetic hands for men

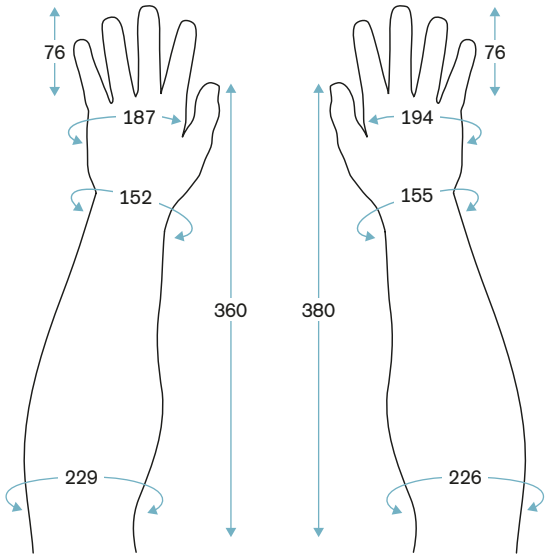


Side	Article no.	Check no.	Article no.	Side
	8S4=206X80L	60	8S4=205X80R	
	8S7=206X80L		8S7=205X80R	

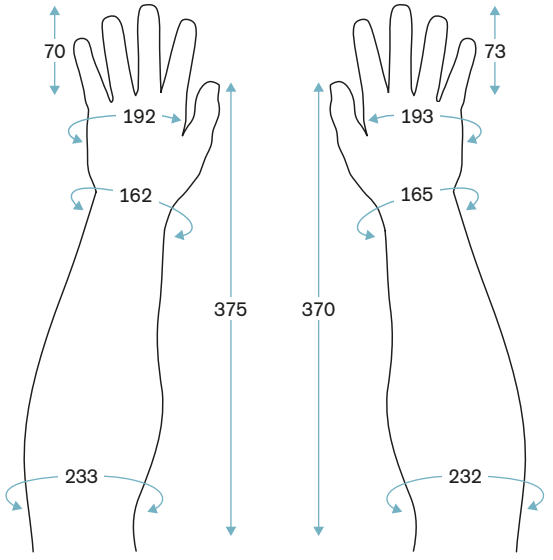


Side	Article no.	Check no.	Article no.	Side
	8S4=206X87L	13	8S4=215X88R	
	8S7=206X87L		8S7=215X88R	

Passive prosthetic hands for men



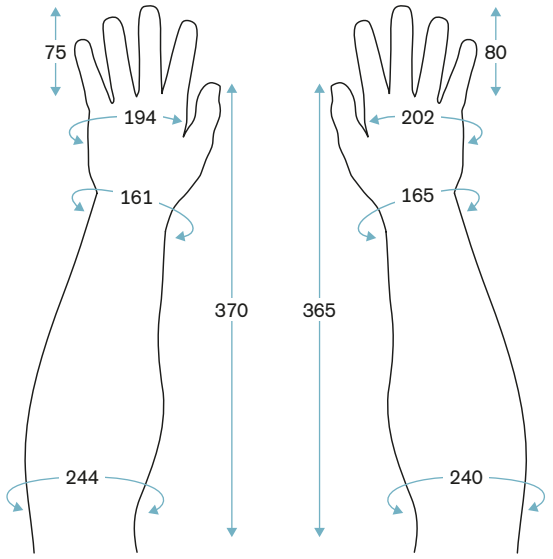
Side	Article no.	Check no.	Article no.	Side
	8S4=207X86L	57	8S4=209X86R	
	8S7=207X86L		8S7=209X86R	



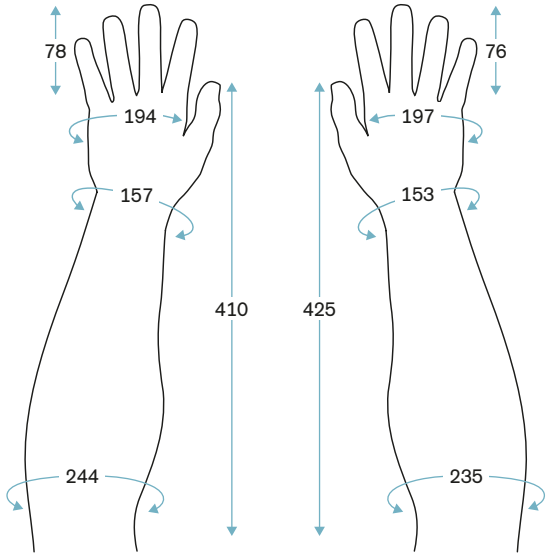
Side	Article no.	Check no.	Article no.	Side
	8S4=208X85L	12	8S4=212X83R	
	8S7=208X85L		8S7=212X83R	

6

Passive prosthetic hands for men

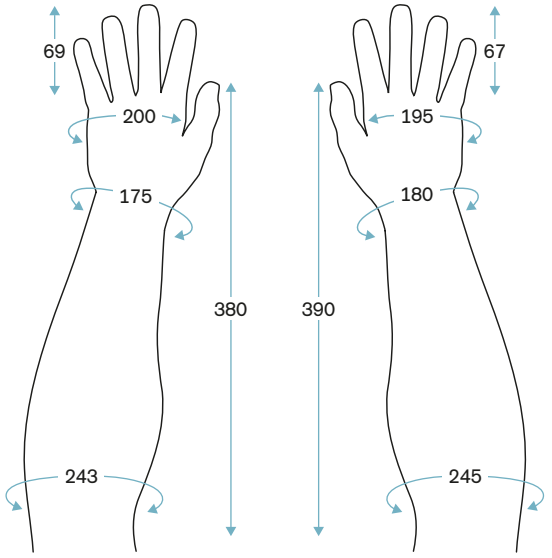


Side	Article no.	Check no.	Article no.	Side
	8S4=211X88L	59	8S4=212X86R	
	8S7=211X88L		8S7=212X86R	

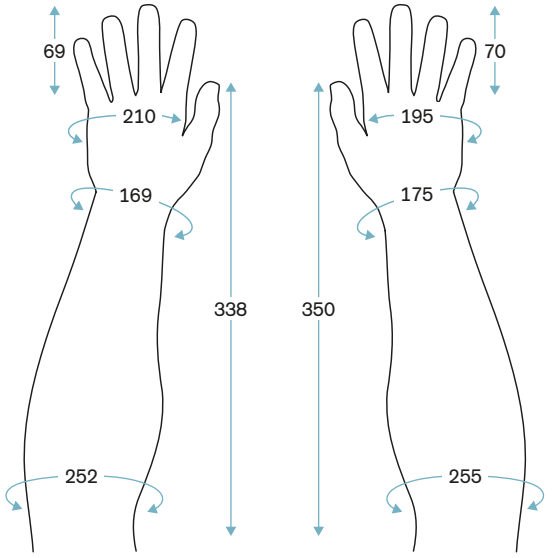


Side	Article no.	Check no.	Article no.	Side
	8S4=212X93L	56	8S4=215X93R	
	8S7=212X93L		8S7=215X93R	

Passive prosthetic hands for men



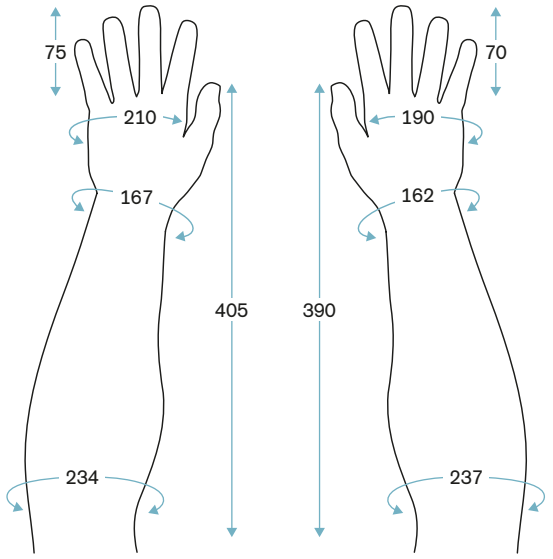
Side	Article no.	Check no.	Article no.	Side
	8S4=213X85L	54	8S4=218X85R	
	8S7=213X85L		8S7=218X85R	



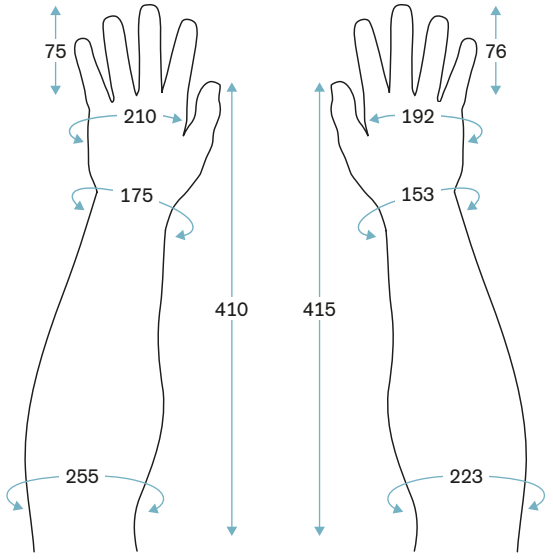
Side	Article no.	Check no.	Article no.	Side
	8S4=214X82L	17	8S4=215X83R	
	8S7=214X82L		8S7=215X83R	

6

Passive prosthetic hands for men

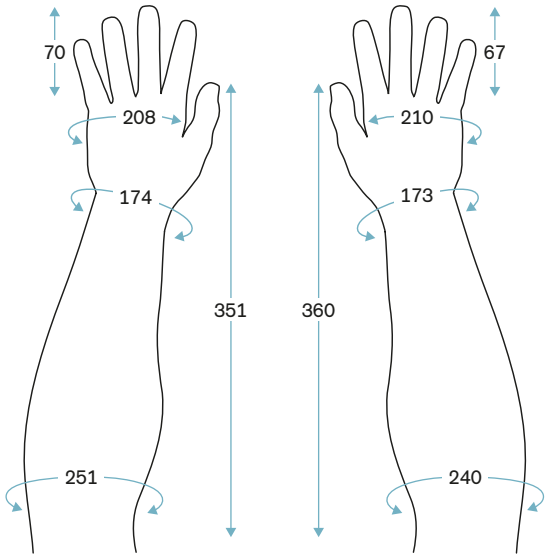


Side	Article no.	Check no.	Article no.	Side
	8S4=218X85L	8	8S4=218X83R	
	8S7=218X85L		8S7=218X83R	

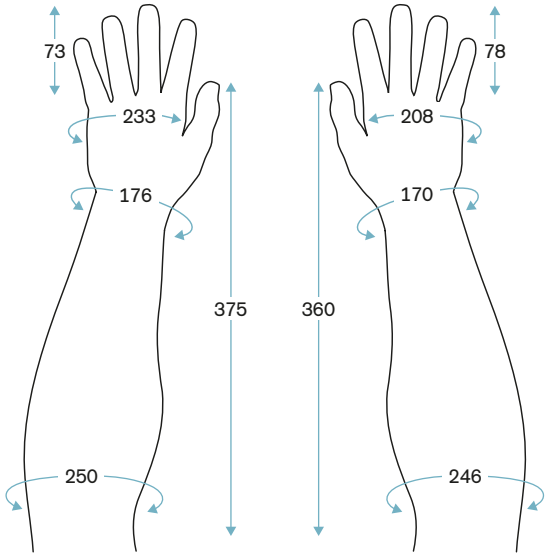


Side	Article no.	Check no.	Article no.	Side
	8S4=220X91L	11	8S4=214X90R	
	8S7=220X91L		8S7=214X90R	

Passive prosthetic hands for men



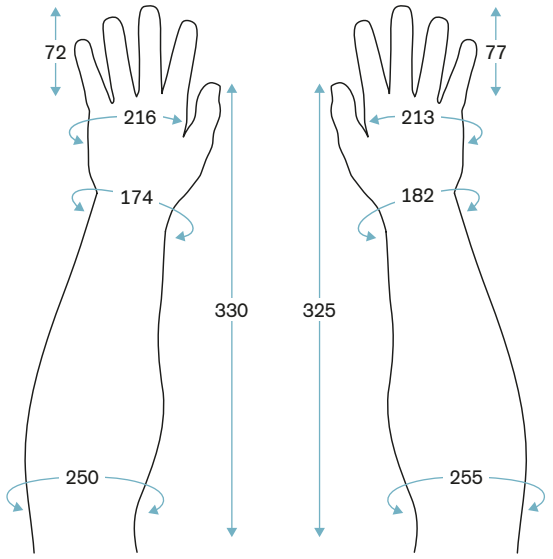
Side	Article no.	Check no.	Article no.	Side
	8S4=221X81L	51	8S4=225X82R	
	8S7=221X81L		8S7=225X82R	



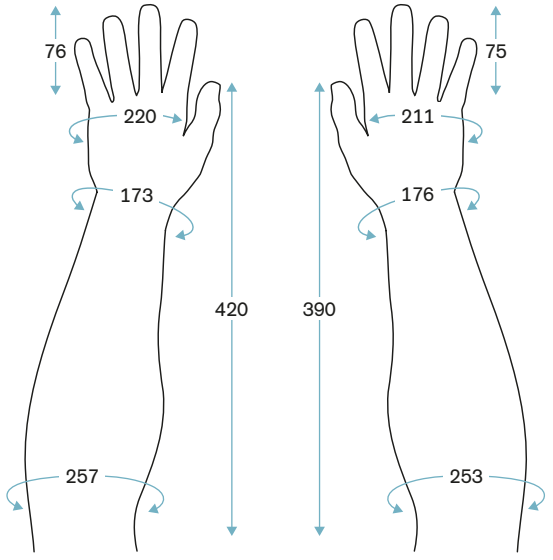
Side	Article no.	Check no.	Article no.	Side
	8S4=228X84L	53	8S4=222X84R	
	8S7=228X84L		8S7=222X84R	

6

Passive prosthetic hands for men

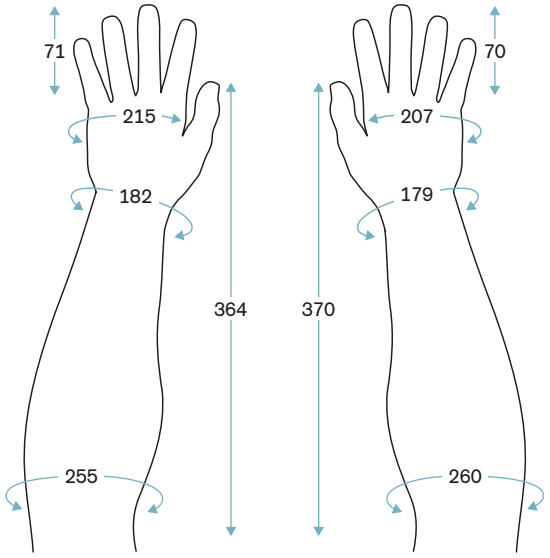


Side	Article no.	Check no.	Article no.	Side
	8S4=228X88L	52	8S4=228X89R	
	8S7=228X88L		8S7=228X89R	



Side	Article no.	Check no.	Article no.	Side
	8S4=232X94L	55	8S4=230X93R	
	8S7=232X94L		8S7=230X93R	

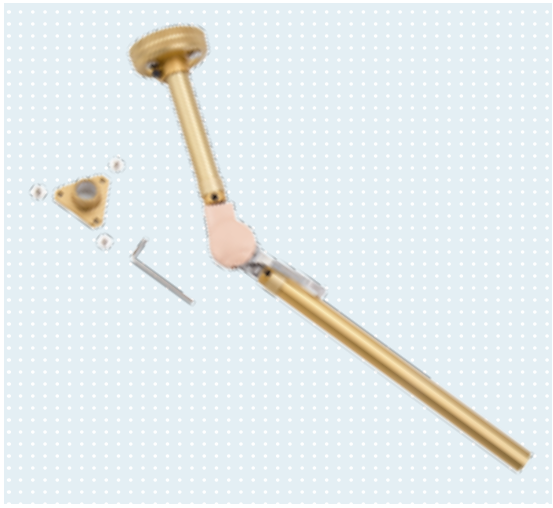
Passive prosthetic hands for men



Side	Article no.	Check no.	Article no.	Side
	8S4=238X92L	14	8S4=244X94R	
	8S7=238X92L		8S7=244X94R	

6

Modular arm components



647G471

Transhumeral modular kit

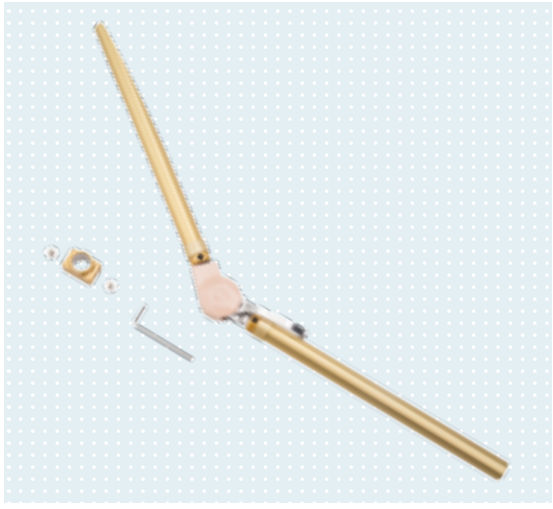
Article no. 12R6

The modular structural component set contains the components for an upper arm prosthesis. Suitable for short and long above-elbow residual limbs with passive elbow lock as well as upper arm and forearm rotation.

Key features at a glance

- Passive elbow lock
- Upper arm and forearm rotation
- Tubes can be individually shortened in the defined range
- Article no. 13R6 for long residual limbs included

Article no.	Side
12R6=L	Left (L)
12R6=R	Right (R)



647G471

Shoulder disarticulation modular kit

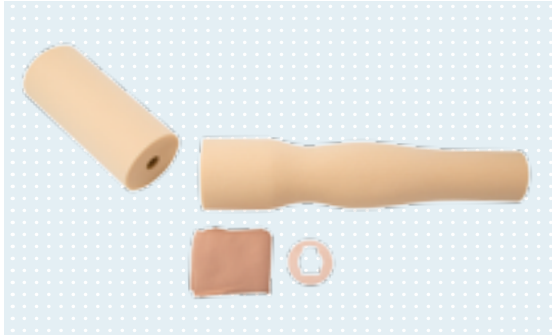
Article no. 12R7

The modular structural component set contains the components for a prosthesis for a shoulder disarticulation with passive elbow lock.

Key features at a glance

- Passive elbow lock
- Upper arm and forearm rotation
- Tubes can be individually shortened in the defined range
- Adapter (article no. 13R7 for 12S4) included

Article no.	Side
12R7=L	Left (L)
12R7=R	Right (R)



Foam modular kit

Article no. 15K10

The foam modular kit is compatible with forearms with a circumference of 300 mm. Equipped with a perlon frizz stockinette, length approx. 2 m (article no. 623T8=9). Colour: beige. The 13R8=64 mounting flange is also included in the scope of delivery.

Modular arm components

Flexion cable retainer

Article no. 13Y1

Flexion cable retainer for forearm tube.

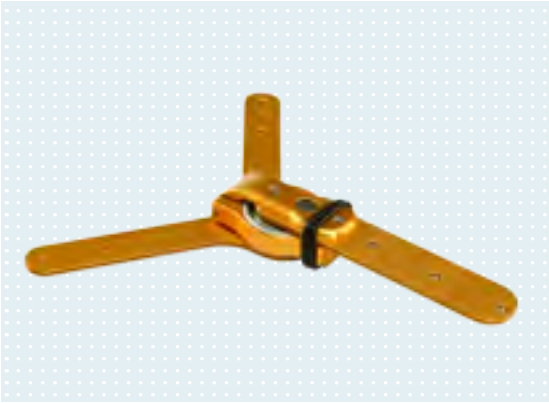
Connection disc with groove

Article no. 13R9

Connection disc with groove for attaching the perlon frizz stockinette to the wrist joint.

Article no.	Exterior diameter	Size
13R9=45	45 mm	6 ¾
13R9=50	50 mm	7 ¼
13R9=55	55 mm	7 ¾ and 8
13R9=65	65 mm	Passive prosthetic hands, adaptable

Shoulder joints and accessories



647G349

Tip

- This joint can also be fitted in conjunction with the DynamicArm (article no. 12K100N and 12K110N).

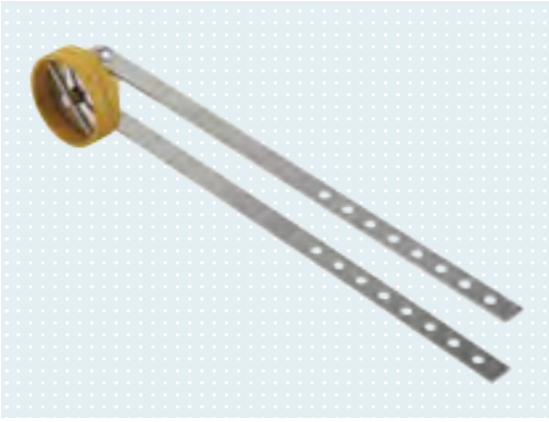
MovoShoulder Swing

Article no. 12S6

This shoulder joint opens up new possibilities for prosthetic devices in the shoulder area. The MovoShoulder Swing is ideal for prostheses with basic functions or in combination with high-tech components. The free swing of up to 40° reduces pressure from the prosthetic socket and allows even bilateral amputees to achieve natural, harmonious movements. Locking at 30° anteversion and unlocking is controlled by specific upper body movements or with the sound hand. No additional control elements such as switches or a body harness are required. Abduction of up to 20° facilitates more comfortable movement patterns during many activities of daily life. This especially applies to activities done close to the body or while sitting.

Article no.	Side
12S6=L	Left (L)
12S6=R	Right (R)

Technical data	
Overall length	230 mm
Weight	242 g



647G473

Ottobock shoulder joint

Article no. 12S4

This should joint has two axes with separate friction and two arm bars.

Technical data	
Overall length	210 mm
Lamination ring diameter	43 mm
Weight	134 g

647G473

Ottobock ball shoulder joint

Article no. 12S7

Ottobock ball shoulder joint with M12X1.5 threaded stud (Weight: 78 g).

Shoulder joints and accessories

Lamination ring

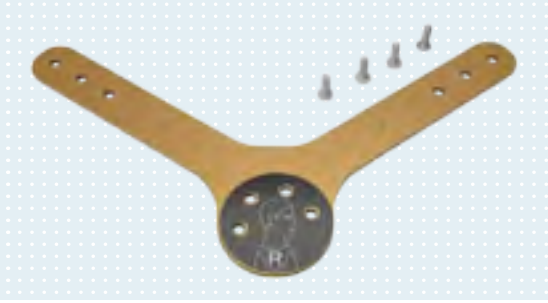
Article no. 13Z16=43

Spare part for Ottobock shoulder joint, article no. 12S4.

Shoulder bracket set

Article no. 13D2

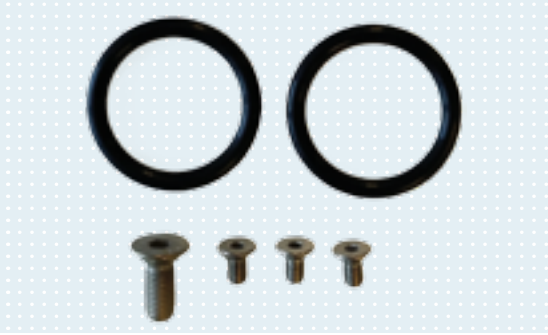
Article no.	Side	Compatible with
13D2=L	Left (L)	12S6=L
13D2=R	Right (R)	12S6=R



O-ring set

Article no. 13D1

Spare part for MovoShoulder Swing shoulder joint, article no. 12S6.



Shoulder joints and accessories

647G471

Modular elbow joint

Article no. 13R1

Modular elbow joint with passive lock.

Article no.	Side
13R1=L	Left (L)
13R1=R	Right (R)

Light metal piping

Article no. 13R3

Gold anodised light metal piping with a length of 250 mm, with reinforced ring and glide bushing.

Lamination ring

Article no. 13G8=67

Lamination ring with an exterior diameter of 67 mm. Compatible with article no. 12K5, 12K20 and 12R6.

Truss head screw

Article no. 501S35=M4X6

Truss head screw for article no. 12R6, 12R7, 13R5, 13R6 and 13R7.

Shoulder joints and accessories

Cap screw

Article no. 501Z2=M4X18

Cap screw for article no. 12R6, 12R7 and 13R5.

Adapter

Article no. 10R5

Adapter for connecting the light metal piping (article no. 13R3 / 13R4) and adapters (article no. 13R6 / 13R7) to the elbow joint. For hand and upper arm rotation.

Set screw

Article no. 506G1=M6X10

Set screw for article no. 10R5, 12R6 and 12R7.

Joint ball

Article no. 13X5

Spare part for Ottobock ball shoulder joint, article no. 12S7.

Shoulder joints and accessories

Joint clamp

Article no. 13X4

Spare part for Ottobock ball shoulder joint, article no. 12S7.

Friction ring

Article no. 13X3

Spare part for Ottobock ball shoulder joint, article no. 12S7.

Adapter

Article no. 10R2=M12X1.5

Adapter for connecting modular arm components to the ball shoulder joint (article no. 12S7) with M12X1.5 interior thread.

647G454

Shoulder joints and accessories

Light metal piping

Article no. 13R4

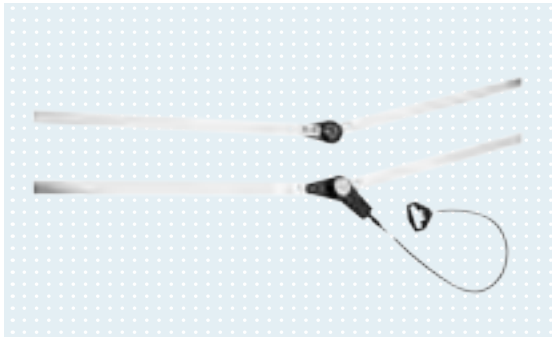
Gold anodised light metal piping with reinforced ring and glide bushing (length: 120 mm).

Adapter

Article no. 13R6

Adapter to connect the lamination ring (article no. 13G8) and elbow joint using the adapter, article no. 10R5.

Elbow joint bars

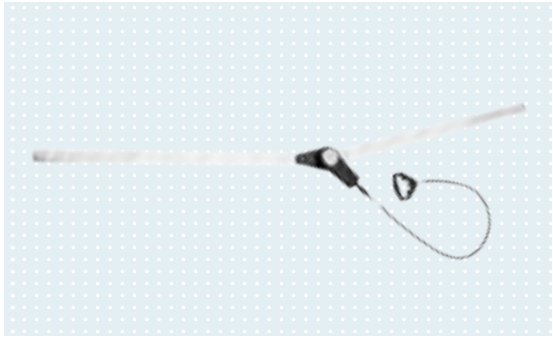


647G472

Elbow joint bars

Article no. 16X12

Elbow joint bars with one joint bar and swivelling cable lock, 18 ratchet positions in 7.2° increments. The second joint bar is without a lock, flat bar profile, joint bars suitable for both sides, for arm prostheses. Head diameter 30 mm, joint bar length 320 mm (top and bottom), joint bar width/thickness: 14 / 2 mm.

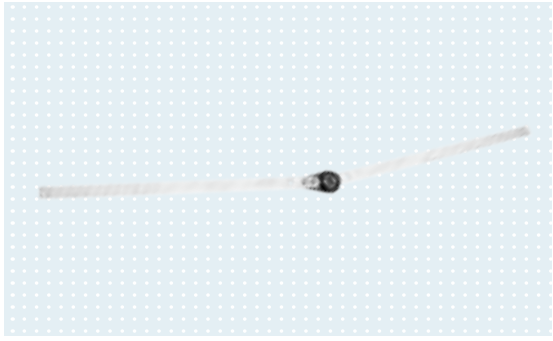


647G472

Elbow joint bar with cable lock

Article no. 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 30 mm, joint bar length 320 mm (top and bottom), joint bar width/thickness: 14 / 2 mm.



647G472

Elbow joint bar without cable lock

Article no. 16X14

The joint is freely moveable with a flat joint bar profile.
Head diameter 30 mm, joint bar length 320 mm (top and bottom), joint bar width/thickness: 14 / 2 mm.

Elbow joint bars

Joint piece with cable lock

Article no. 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 article no. 12K27, 16X12 and 16X13.

647G472

Joint piece without lock

Article no. 16Y31

Joint piece without lock, compatible with article no. 16X12 and 16X14. With joint bracket and socket screws.

Pull cable

Article no. 16Y26

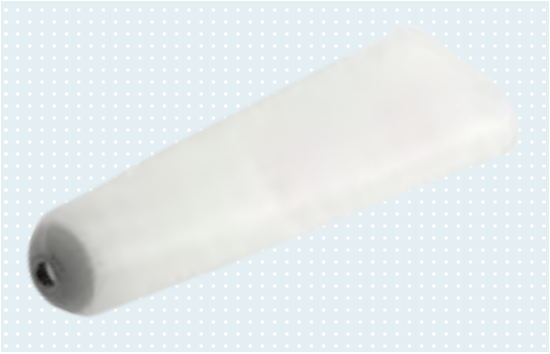
Pull cable with threaded connection, compatible with models with article no. 12K27, 16X12 and 16X13.

Belt flap

Article no. 21Y79

Belt flap with wedge lock, compatible with models with article no. 16X12 and 16X13.

Liners and accessories



647H323

Silicone ArmLiner

Article no. 14Y1

The residual limb socket is of the utmost importance for the quality and comfort of an Upper Limb prosthesis. Using Ottobock ArmLiners, which were developed especially for the needs of Upper Limb prosthetics, clearly improves wearer comfort, ensures good residual limb adhesion and reduces frictional forces. An elbow envelopment can potentially be omitted if there is an adequate residual limb length. This enables unrestricted pronation and supination. For the fitting of below-elbow and above-elbow residual limbs.

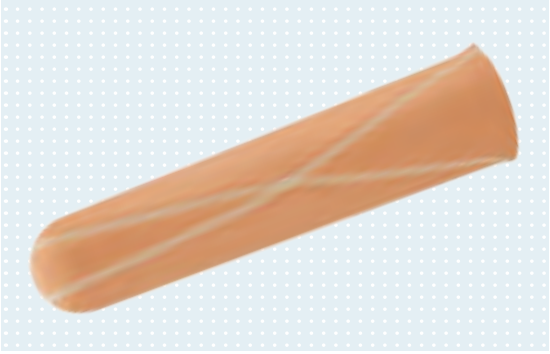
Key features at a glance

- Resistant to water, perspiration and weather
- Odour-neutral
- Good adhesion

Measure correctly!

- For correct size selection, measure the circumference 3 cm proximal from the end of the residual limb. Subtract 1 to 2 cm from the measured circumference according to the soft tissue situation.

Article no.	Length	Circumference 1	Circumference 2
14Y1=110	200 mm	110 mm	150 mm
14Y1=140	200 mm	140 mm	160 mm
14Y1=160	200 mm	160 mm	180 mm
14Y1=180	200 mm	180 mm	200 mm
14Y1=200	200 mm	200 mm	220 mm
14Y1=220	200 mm	220 mm	240 mm



647G772

IntoLiner Acclimate

Article no. 14Y3

Combined with a custom-made frame socket, the IntoLiner Acclimate constitutes the connection between the residual limb and the arm prosthesis. Wearer comfort is improved by the breathable, moisture wicking and antibacterial textile material. It equalises heat and cold. In order to fully benefit from these features, we recommend fabricating a custom frame socket. An example can be found in the 646T3=3.5* technical information. For fitting below-elbow residual limbs with a residual limb length of 10 cm and up.

Key features at a glance

- Temperature equalising
- Moisture wicking, breathable and antibacterial
- Available in various sizes
- Adjustable to the residual limb length
- Washable at 30° C

Measure correctly!

- For correct size selection, measure the circumference 3 cm proximal from the end of the residual limb. Subtract 1 to 2 cm from the measured circumference according to the soft tissue situation.

Article no.	Length	Circumference 1
14Y1=140	290 mm	140 mm
14Y1=160	290 mm	160 mm
14Y1=180	290 mm	180 mm
14Y1=200	290 mm	200 mm
14Y1=220	290 mm	220 mm

- The colour of the liner corresponds approximately to colour 4 of the 646M3 Ottobock prosthetic glove colour scale.

Skeo Up

Article no. 14Y5

The Skeo Up represents the further development of the proven 14Y1 Silicone ArmLiner, complemented by components from the Skeo range for the lower limbs. A non-adhesive outer coating was applied to this liner, eliminating the need for donning spray and making it much easier to put on and take off. The roughened interior contour also reduces the perception of perspiration and feels comfortable on the skin. The new matrix improves tear resistance by reducing the lengthwise elongation. A pin is used to establish the connection to the lock built into the prosthetic socket.

647G323

Key features at a glance

- Suitable for residual limb sockets from a residual limb length of 100 cm on the upper arm and forearm
- Easier to put on and take off thanks to a special outer coating
- Very comfortable to wear due to roughened interior contour
- Highly robust thanks to new matrix
- New design

Article no.	Length	Circumference 1	Circumference 2
14Y5=110	200 mm	110 mm	150 mm
14Y5=140	200 mm	140 mm	160 mm
14Y5=160	200 mm	160 mm	180 mm
14Y5=180	200 mm	180 mm	200 mm
14Y5=200	200 mm	200 mm	220 mm
14Y5=220	200 mm	220 mm	240 mm

Measure correctly!

- For correct size selection, measure the circumference 3 cm proximal from the end of the residual limb. Subtract 1 to 2 cm from the measured circumference according to the soft tissue situation.

Liners and accessories

647H347

Lock set

Article no. 14A1

Lock set for attaching an Ottobock Silicone ArmLiner (article no. 14Y1 and 14Y5) to the prosthetic socket.

Donning spray

Article no. 640F18

The donning spray is needed among other things for donning and removal of the liner or prosthetic glove (silicone, PVC).

Article no.	Contents
640F18	90 ml
640F18=900	900 ml (refill)

Derma Clean

Article no. 453H10

Derma Clean cleanses gently and reliably. It is pH-neutral, free of alkali and phosphates, and features an antibacterial formula.

Article no.	Order by	Contents
453H10	6 bottles	300 ml
453H10=1	1 bottle	300 ml

Derma Repair

Article no. 453H14

Derma Repair moisturises and promotes the regeneration of dry, sore skin. It reduces the effects of excessive strain and soothes irritated skin. Thanks to the antibacterial effect, it protects the skin against damaging external influences and makes it more resilient.
Derma Repair regulates moisture and makes the skin noticeably more supple and elastic. And it improves skin function by promoting the skin's blood circulation and supporting cell growth.

Article no.	Order by	Contents
453H14	6 bottles	200 ml
453H14=1	1 bottle	200 ml

Derma Prevent

Article no. 453H12

Derma Prevent is used for the prevention of chafing and inhibits contact with external allergens. It covers highly stressed skin with a protective coating and leaves it soft and supple.
It also inhibits perspiration and odour formation through the individual release of an active substance.

Key features at a glance

- For Polytol sockets
- Oily consistency
- Prevents static friction between socket and clothing

Article no.	Order by	Contents
453H12	6 bottles	100 ml
453H12=1	1 bottle	100 ml

Measure correctly!

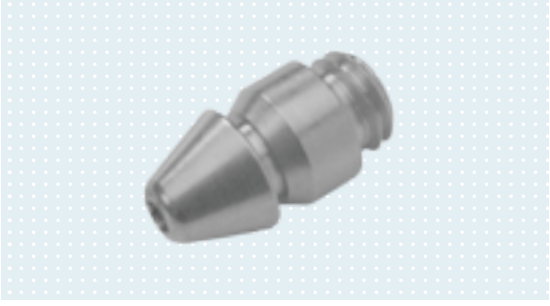
- To reduce the static friction of Polytol, rub a thin layer of Derma Prevent on the inside and outside of the socket. Do not apply Derma Prevent to those places where double-sided adhesive tape or a self-adhesive hook or loop strap will be attached later on.

Liners and accessories

Dummy set

Article no. 14A111

Dummy set for aligning a prosthesis with Ottobock Silicone ArmLiner. The set consists of a pin dummy with and without thread and a shape dummy for the lamination ring.



Pin

Article no. 14A107

The pin is available in various lengths.

Article no.	Length
14A107	23 mm
14A107=1	28 mm
14A107=2	33 mm

Lock with release pin

Article no. 14A110

Lock with release pin serves as a spare part for article no. 14A1.

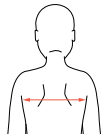
Body harnesses and accessories

Transhumeral soft harness

Article no. 21A47

Ottobock offers the world's first soft harness for transhumeral prostheses with myoelectric or passive elbows. The harness, which consists of an arm sling and a sleeve, is completely removable and is not fastened to the socket with a strap. Users can put it on and take it off with one hand. Soft underarm padding and breathable materials, which are fully washable, help make the harness comfortable. The back cord guide also allows the arms to swing naturally, supporting more physiological movement. The harness is available in three sizes for both the right and left arms. Users can also make small adjustments themselves using a hook-and-loop closure.

647G1267
647G1279



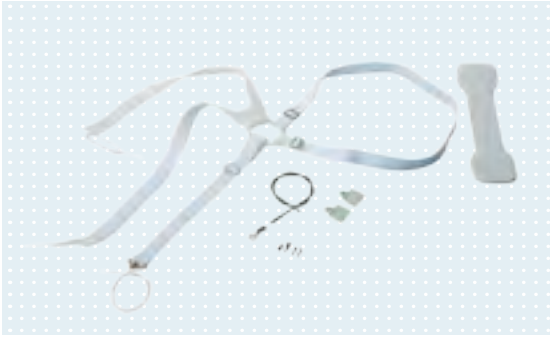
Size	Side	Back width	Armhole circumference
S	L/R	30–36.6 cm	38–45.3 cm
M	L/R	36.6–43.2 cm	45.3–52.6 cm
L	L/R	43.2–50 cm	52.6–60 cm

Order no.: article no.=side-size-colour. Ordering example: 21A47=L-S-1

Triple-control above-elbow harness

Article no. 21A35

The triple-control above-elbow harness is used to secure the prosthetic socket and control body-powered prostheses. It is suitable for prostheses on the right and left sides.



647H455

Article no.	Version
21A35=1	with perlon cable
21A35=2	with steel cable

Below-elbow harness

Article no. 21A36

The below-elbow harness is intended for fixation of the prosthetic socket and for control of body-powered prostheses. It is suitable for prostheses on the right and left sides.

647H455

Article no.	Version
21A36=1	with perlon cable
21A36=2	with steel cable

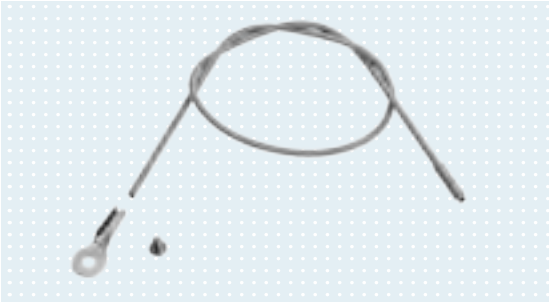
Body harnesses and accessories

Sleeve protection pad

Article no. 15Y1

Rubber sleeve protection pad with leather cover.

Article no.	Length	Width
15Y1=16	16 cm	85 mm
15Y1=18	18 cm	85 mm



Bowden cable

Article no. 21A37=1

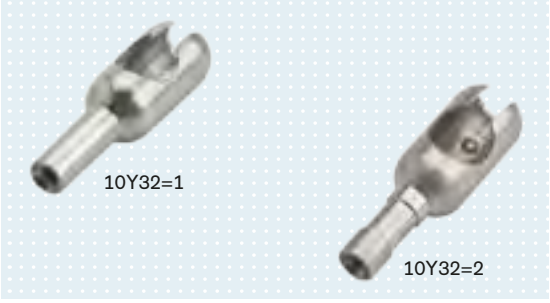
The Bowden cable is a spare part for article no. 21A35. Spiral length: 500 mm.

Ball-shaft adapter

Article no. 10Y31

The ball-shaft adapter forms a connection element with the coupler, article no. 10Y32=*.

Article no.	Compatible with
10Y31=1	21A18=2 Perlon cable
10Y31=2	651D4=2 Steel cable
10Y31=7	3/64" steel cable
10Y31=8	1/16" steel cable
10Y31=9	3/32" steel cable



Coupler

Article no. 10Y32

The coupler forms a connection element with the ball-shaft adapter, article no. 10Y31=*.

Article no.	Compatible with
10Y32=1	21A18=2 Perlon cable
10Y32=2	651D4=2 Steel cable

Body harnesses and accessories

Ring
Article no. 21Y194

Harness ring with integrated cable guide.

Stainless steel buckle
Article no. 21Y195=25

Stainless steel buckle for positioning and fixing the harness strap.

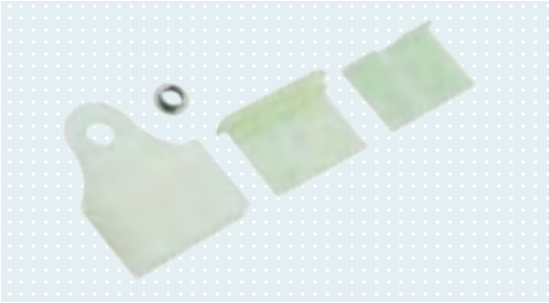
Connecting bracket
Article no. 21Y197=1

Connecting bracket in white.

Axilla pad set
Article no. 21A38

Axilla pad set in white. Contents: 5 pieces.

Body harnesses and accessories



Strap buckle

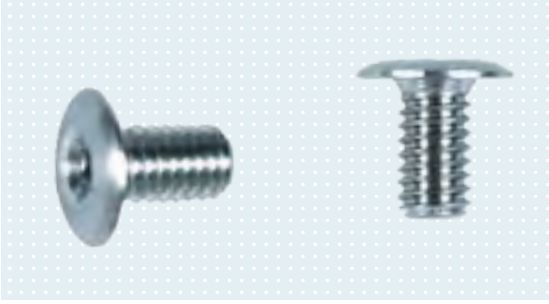
Article no. 21Y199

Strap buckle for a seamless connection of the elastic harness strap (article no. 623G23) to the prosthetic socket. Consisting of sleeve, lower part, upper part and spacer sleeve.

Spacer sleeve

Article no. 21Y203

Spacer sleeve for strap buckle (article no. 21Y199).



Socket screw with Allen head

Article no. 503F3

Socket screw (contents: 2 pieces) with Allen head. With M4 thread (length 7 mm). The head diameter is 8 mm.

Elastic harness strap

Article no. 623G23

Elastic harness strap in white with tunnel-shaped cable guide.
Order by the metre

Body harnesses and accessories

Harness strap

Article no. 623H23

White harness strap. Order by the metre

Perlon cable

Article no. 21A18

Perlon cable with a diameter of 2 mm.

Article no.	Length	Order by
21A18=2X1	1 m	linear metres
21A18=2X5	5 m	linear metres
21A18=2X10	10 m	linear metres
21A18=2X25	25 m	linear metres

Setting nut

Article no. 29C5=MX4X9

Setting nut (knurled), stainless steel.

Article no.	Thread	Length	Head diameter	Stud diameter
29C5=M4X9	M4	3.6 mm	9 mm	5.5 mm

Cable clamp

Article no. 10Y3

Body harnesses and accessories

Clamp sleeve, short

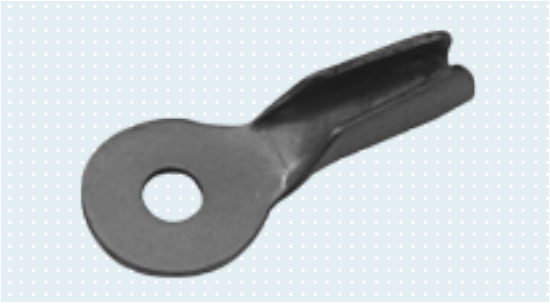
Article no. 10Y25

The short clamp sleeve is for clamping to the steel cable (article no. 651D4=2).

Clamp sleeve, long

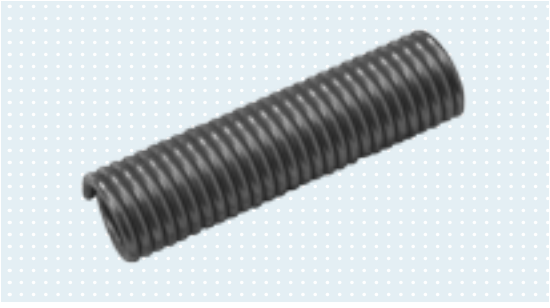
Article no. 10Y26

The clamp sleeve is for clamping to the steel cable (article no. 651D4=2).



Eyelet cable anchor, large

Article no. 21A5



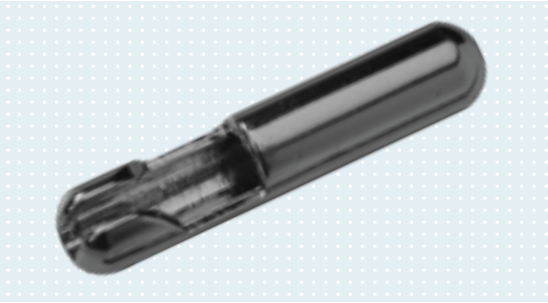
Spiral nut

Article no. 21A6

Body harnesses and accessories

Coupling piece
Article no. 21A7

Coupling piece for perlon cable.



Threaded fitting, long
Article no. 21A11

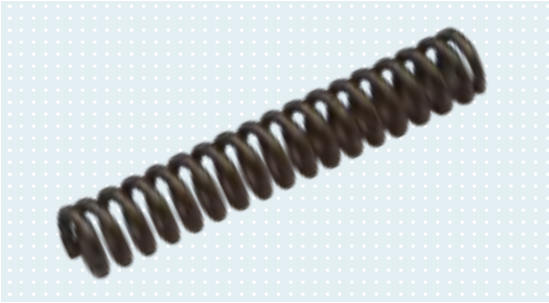
The long threaded sleeve is screwed onto the perlon cable article no. 21A18=2 (contents: 2 pieces).

Threaded sleeve
Article no. 21A12

The short threaded sleeve is screwed onto the perlon cable article no. 21A18=2 (contents: 2 pieces).

Eyelet cable anchor, small
Article no. 21A24

Body harnesses and accessories



Spring

Article no. 21A25

Spring for coupling piece.

Cable strap buckle

Article no. 21Y37

Cable strap buckle with a clearance width of 25 mm.

Elastic double strap

Article no. 623G4

Elastic double strap for clip closure (article no. 29R127). In grey with white stripes. Washable up to 40 °C.

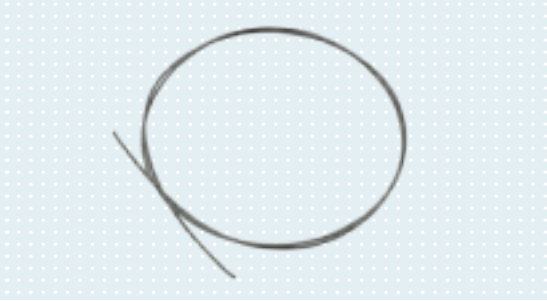
Article no.	Length	Width
623G4=1	1 m	30 mm
623G4=5	5 m	30 mm

Body harnesses and accessories

Steel cable

Article no. 651D4=2

Steel cable with plastic cover.



Countersunk head screw

Article no. 501S28=M3.5X5

Nickel-plated countersunk head screw for article no. 16H1 and 16H2.

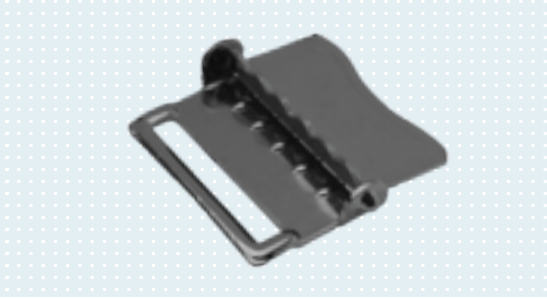
“D” ring

Article no. 21A16

“D” ring with a clearance width of 13 mm for flexion cable.

Clamp buckle

Article no. 514K3=27

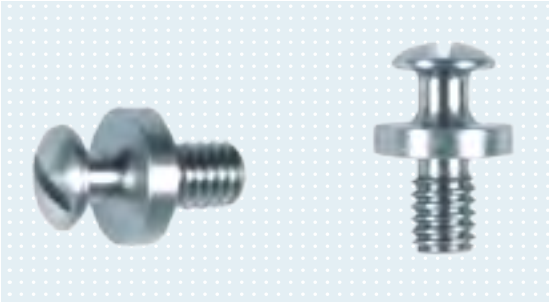


Body harnesses and accessories

Lamination disc, serrated

Article no. 507S15

Serrated lamination disc with bore (diameter: 3 mm). Exterior diameter 13.8 mm (contents: 2 pieces).



Threaded support fastener

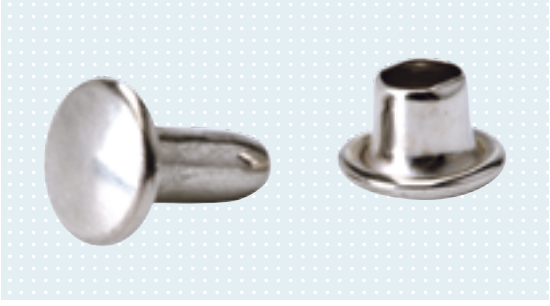
Article no. 516S3

Threaded support fastener with M4 thread and a thread length of 5.5 mm.

Loop

Article no. 514Z3=25

Loop with a clearance width of 25 mm.



Hollow rivet

Article no. 504H3=11-100

Hollow rivet with open lower part. Head diameter: 11 mm.

Body harnesses and accessories

Screw coupling

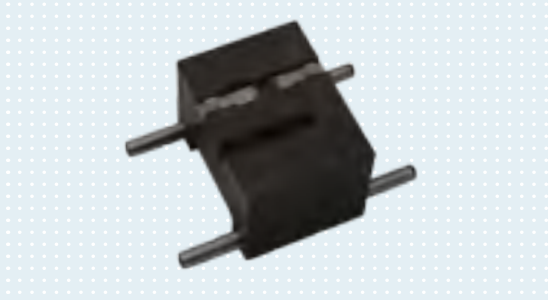
Article no. 10Y19=2

The screw coupling serves as a connection piece between a steel cable and perlon cable or spectra cable as well as between a perlon cable and perlon cable or spectra cable. Consisting of coupling sleeve and coupling screw, to be screwed to the perlon cable (article no. 21A18=*) or through which a spectra cable is to be threaded and then knotted.

Clamping tool

Article no. 736Y6

Clamping tool for crimping the coupling screw and clamp sleeve as well as the ball shaft fitting (article no. 10Y31=2) and coupler (article no. 10Y32=2) onto the steel cable (article no. 651D4=2).



647H13

Axillary protector for body harnesses

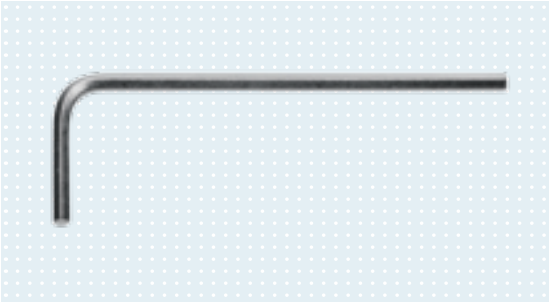
Article no. 21A29

Article no.	Width
21A29=18	18 mm
21A29=25	25 mm

Workshop equipment

On the following pages you will find
- Special tools
- Auxiliary materials

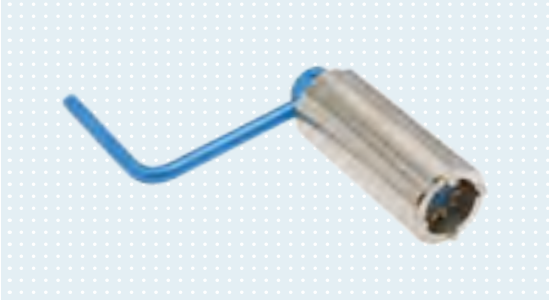
Special tools



Allen wrench

Article no. 709S10=2

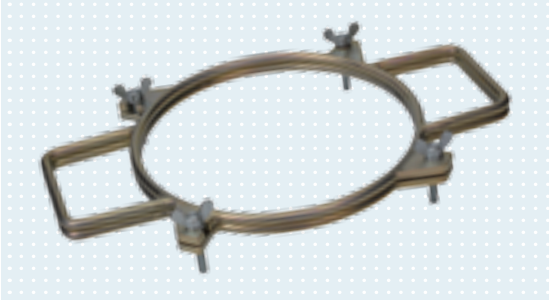
The Allen wrench is compatible with the article no. 503F3 socket screw.



Mounting wrench

Article no. 711M18

The mounting wrench is used to accurately tighten the quick-disconnect mechanism (article no. 11S2) and to loosen disengaged ball bearings.



Vacuum forming tool

Article no. 711M53

Vacuum forming tool for arm prostheses with an exterior diameter of 260 mm.

- Only one vacuum forming tool is included in the scope of delivery!

Conical drill bit (HSS)

Article no. 726W9

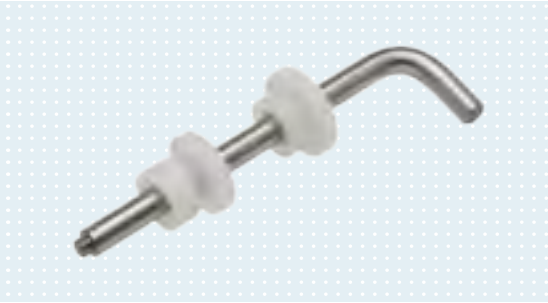
Conical drill bit (HSS) suitable for processing plastic.

Article no.	Diameter
726W9=14	14 mm
726W9=20	20 mm
726W9=30	30 mm

Special tools

Alignment tool for children's component

Article no. 743A19



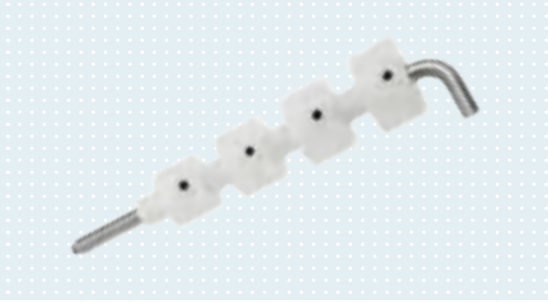
Alignment tool for children's component with an M8 thread (diameter: 12 mm, length: 169 mm). For 10S16 lamination rings.

Consisting of

- Alignment rod (article no. 743Y167)
- Lamination dummy for sizes 5 and 5 ½ (article no. 743Y42=34)
- Lamination dummy for sizes 6 and 6 ½ (article no. 743Y42=38)

Alignment tool for adult component

Article no. 743A18



Alignment tool for adult component with an M8 thread (diameter: 12 mm, length: 280 mm).

Consisting of

- Alignment rod (article no. 743Y41)
- Lamination dummy, 40 mm diameter (article no. 743Y42=40)
- Lamination dummy, 45 mm diameter (article no. 743Y42=45)
- Lamination dummy, 50 mm diameter (article no. 743Y42=50)
- Lamination dummy, 54 mm diameter (article no. 743Y42=54)

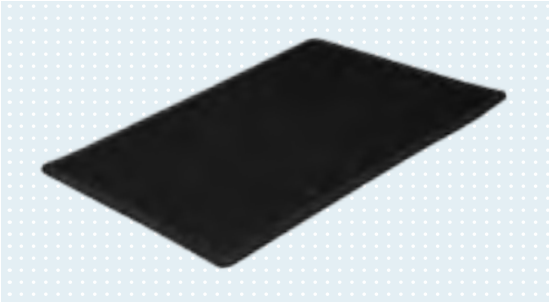
When ordering spare parts, please specify the diameter (corresponds to the exterior diameter of the lamination ring, article no. 10S1).

Socket attachment piece

Article no. 11S12

Socket attachment piece for fastening the alignment rod (article no. 743Y41) and for alignment of an Upper Limb prosthesis.

Special tools



Work mat

Article no. 640Z6

Universal pliers, small

Article no. 706R4

The small universal pliers are 115 mm long.

Side-cutting pliers

Article no. 706Z2

Side-cutting pliers with oval head (head width: 10 mm). Length: 120 mm.

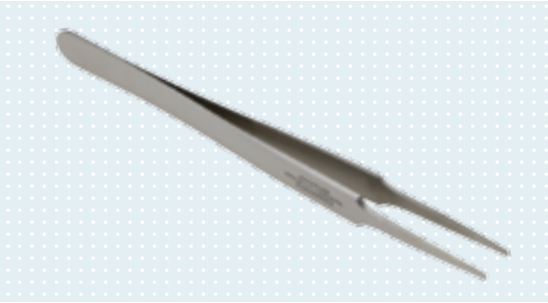
Flat nose pliers

Article no. 706F1=125

Special tools

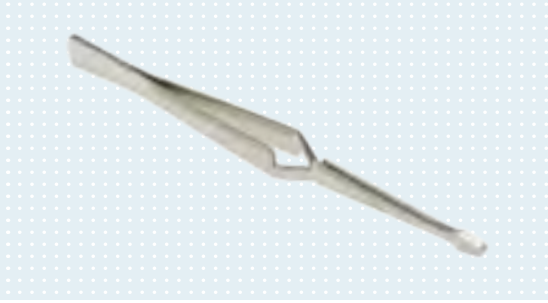
Tweezers
Article no. 799P1

Tweezers with a length of 120 mm.



Tweezers
Article no. 799P2

Tweezers with a length of 155 mm.



Pliers
Article no. 706Z10

Pliers for screwing the system electric hands (article no. 8E39) to the corresponding lamination ring. May also be used to loosen disengaged ball bearings in the quick-disconnect wrist unit.

Precision screwdriver set
Article no. 710H3

Precision screwdriver set with 1 / 1.5 / 1.8 / 2.3 / 2.9 and 3.6 mm blade widths.

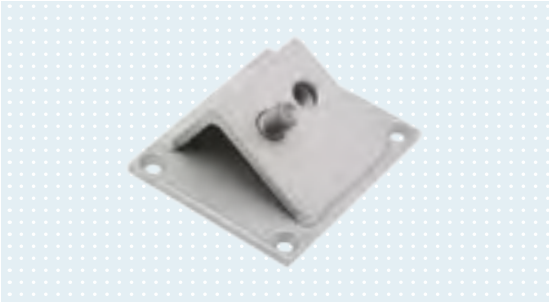
Special tools

Screwdriver

Article no. 710H4

Screwdriver available in various blade widths.

Article no.	Blade width
710H4=3	3.0 mm
710H4=4.5	4.5 mm
710H4=6	6.0 mm



Mounting plate

Article no. 711M2

Mounting plate for screwing the mounting tool (article no. 711M1) the workbench.

Mounting tool

Article no. 711M1

Mounting tool to hold the system electric hand. One side with M12x1.5 exterior thread (for prosthetic hands) and the other side with M12x1.5 interior thread (for Ottobock system electric hands and the Michelangelo Hand).

Mounting tool

Article no. 711M3

Mounting tool to hold the system electric hand with quick-disconnect wrist unit.

Consisting of

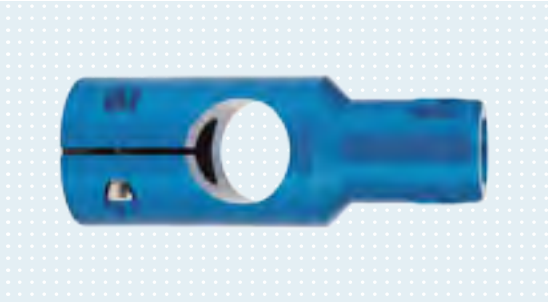
- Coupling piece (article no. 10S4)
- Lock ring (article no. 11S4)
- Allen head screw (article no. 501Z2=M6X25)

Special tools

Mounting adapter for Michelangelo

Article no. 711M64

The mounting adapter is essential for the correct application of the AxonSkin glove in order to protect the mechanism of the Michelangelo Hand and for easier handling by the technician.



Mounting aid

Article no. 711M7

Mounting aid for attaching the system electric hands (article no. 8E39) to the mounting tool (article no. 711M1). Makes putting on and removing the inner hand and prosthetic glove easier.

Mounting tool

Article no. 711M16

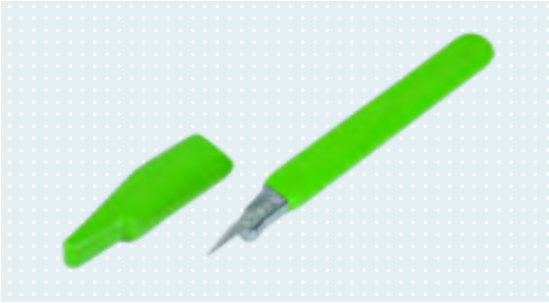
Mounting tool for inserting the electric rotator (article no. 10S17) or coupling piece (article no. 10S4) into the lamination ring (article no. 10S1).

Soldering jig

Article no. 711M12

Soldering jig for soldering the cable connector (9E167) to the coaxial bushing or the hand cable and for soldering the bushing plug to the motor.

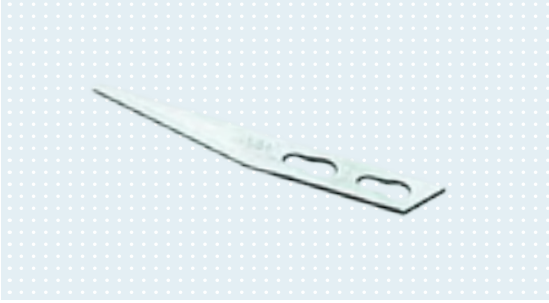
Special tools



Deburring knife

Article no. 718H5

Deburring knife with replaceable blade. Plastic-coated with a length of 160 mm. For processing plastic, with protective cap and handle (weight: 0.05 kg).



Replacement blade

Article no. 718Y1

Replacement blade for deburring knife, article no. 718H5 (weight: 1 g).

Pinch gauge

Article no. 743F1

Pinch gauge for checking the gripping force of system electric hands.

Auxiliary materials

Silicone grease 400, medium

Article no. 633F11

Silicone grease for the planetary gear set of the drive unit as well as for all cable plug connections and other places that need to be protected to prevent penetration of perspiration. Can be used for plaster isolation (net contents: 100 g).

Example of usage

- Apply a pea-sized amount of silicone grease (article no. 633F11) to the wood spatula (article no. 699Y3).
- Prior to laminating, apply silicone grease to the objects that are to be isolated (e. g. thread of a screw, lamination dummy, adapter, orthosis joints). Attention: do not isolate those areas that are to create a bond with the lamination resin.
- Before laminating, carefully clean the bonded objects with isopropyl alcohol (art. no 634A58).

Special lubricant

Article no. 633F14=*

White special lubricant, Molycote-Paste DX suitable for all accessible gear wheels and axles in system electric hands and system electric Greifers.

Article no.	Delivery	Net contents
633F14=0.050	Tube	50 g
633F14=1	Can	1 kg

Procomfort Gel

Article no. 633S2

The gel acts as a lubricant, making the liner or prosthetic glove easier to put on over the inner hand (net contents: 250 ml).

Auxiliary materials

646F297

Isopropyl alcohol

Article no. 634A58

Isopropyl alcohol (transparent) for cleaning sensitive plastics such as PVC, PS, ABS, acrylic, PC (net contents: 1 l).

646F297

UHU-plus endfest 300

Article no. 636W23

UHU-plus endfest 300, the two-component adhesive for strong adhesions.

Tip

- The higher the curing temperature (up to approximately +180 °C (+356 °F)), the higher the strength of the adhesion.
- Using a measuring cup (article no. 642B2) has proven useful for mixing.
- Can be applied with the 699Y3 wood spatula.

Auxiliary materials

Loctite 243
Article no. 636W60

Loctite 243 is used as thread lock for the electric hand, also hardens on brass, up to M36 thread (net contents: 50 ml). Can be activated and loosened by applying heat.

Cyamet quick-drying adhesive
Article no. 636K11

Cyamet quick-drying adhesive (transparent superglue) for adhering silicone rubber to acrylic resin laminates (net contents: 20 g).

646F297

Loctite 241
Article no. 636K13

Can be activated and loosened by applying heat (net contents: 50 ml).

Loctite 601
Article no. 636K14

Loctite 601 for locking the stud (net contents: 50 ml). Can be activated and loosened by applying heat.

Auxiliary materials

Special cleaner

Article no. 640F12

In case of heavy soiling, the special cleaner for prosthetic gloves should be applied immediately (net contents: 460 g).

Pump sprayer

Article no. 640F13

The user should always keep a pump sprayer filled with special cleaner for Ottobock prosthetic gloves handy in order to be able to use the cleaner immediately in case of soiling (net contents: 90 g).

- This container is empty on delivery!

Screw cap

Article no. 9E161

Screw cap for retaining the transmission in the gear housing.

Rubber adhesive

Article no. 636W34

Beige rubber adhesive (net contents: 60 g).

646F297

Auxiliary materials

Plaster shirt

Article no. 641T10=M

The plaster shirt is used when taking a plaster cast as part of the prosthetic arm fitting process. It is suitable for above-elbow residual limbs and shoulder disarticulation.

Plaster sock

Article no. 641T9=M

The plaster sock is used when taking a plaster cast as part of the prosthetic arm fitting process. It can be used for forearm fittings.

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Notes

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