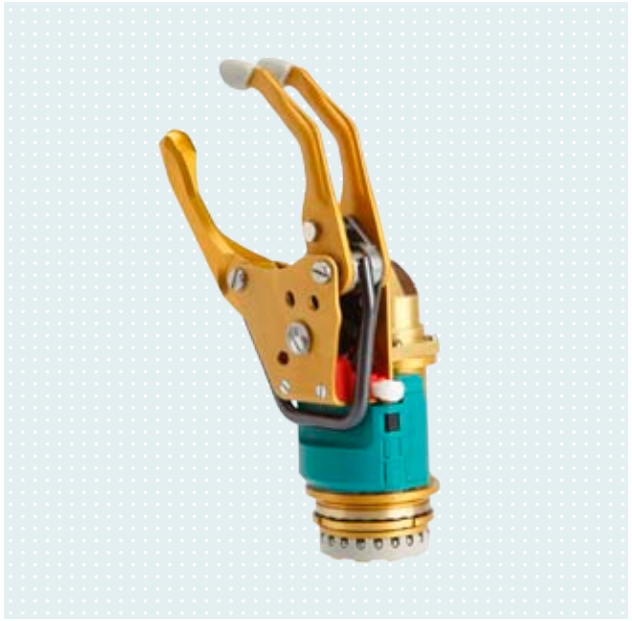
ottobock.

Prosthetics

Upper Limb



PROSTHETICS

Upper Limb

"Our objective is to offer maximum mobility, independence and normality to people with physical disabilities. User functionality is therefore the most important criterion for measuring our products."

Professor Hans Georg Näder
Chairman and CEO

The name Otto Bock has stood for technology, innovation, quality and customer orientation for more than 90 years. Driven by a pioneering spirit, courage and decisiveness, the prosthetist Otto Bock founded Otto Bock Orthopädische Industrie GmbH in Berlin in 1919. He had the courage to break new ground and set higher standards which would revolutionise an entire industry. Under the leadership of Dr. Max Näder, Otto Bock became a company of international standing. Thanks to his creativity and inventive talent, Max Näder continued to set standards in orthopaedic technology with the development of products, such as the modular leg prosthesis system or myoelectric arm prosthesis. The company began to establish an international sales structure in 1958, when the first foreign subsidiary was founded. After years of consistent and dynamic expansion, Otto Bock is now a true global player and a strong corporate brand. Today our name stands for high-quality, functional and technologically outstanding products and services in orthopaedic and rehabilitation technology around the world. Whatever we do, people are always our number one priority: We are committed to helping them achieve maximum mobility, independence and normality.

Otto Bock HealthCare is a modern, customer and success-oriented company with a long-standing tradition – a global player with local roots. With 45 sales and service companies and export activities in over 140 countries around the world, we are constantly in close contact with our customers. Thanks to this intimate relationship with the market, we understand user needs and customer requirements and integrate them into the products we develop. Although we have created a future-proof organisation with our global network of development, manufacturing and production sites, we remain committed to the German market and our local roots. Duderstadt, located in Germany's Eichsfeld region, is not only where our largest development and production sites are situated, it is also home to the Otto Bock HealthCare headquarters.

We will continue to use our experience and expertise responsibly in order to improve the quality of life of disabled people by providing functional and technologically outstanding solutions in the future: "Quality for life - made by Otto Bock".

Otto Bock offers a comprehensive range of practice-oriented products for upper extremity applications. The proven and tested MyoBock system is available as a 4.8 volt system for children and as a 7.2 volt system for children, youths and adults. New controls and the lithiumion charging technology enlarge the offer for the different applications in fitting practice.
The MyoBoy allows realistic on-site simulation of all control variants. This facilitates the entire fitting process.
MyoBock systems offer dual advantages of high function and natural appearances.

We are in a continuing process of increasing our offer for you. When ordering new components you need to install into a prosthesis in combination with older products, please check whether they are compatible.

Our ordering overview is designed to assist you with the order process. It is organised according to the desired function of the arm prosthesis and designed to correspond with your daily practice. An alphabetically organised "Table of Contents" as well as an index arranged in order number make it easier to use this catalogue.

The various control systems for our System Electric Hands and System Electric Greifers and their corresponding service parts have been printed in different colours to further assist you.
Our Myo specialists are available on our OT hotline‘ at +49 (0) 5527 848-3333 and will gladly provide you with information and technical tips on other technology or service questions.
Technical changes reserved.

Zeichenerklärung

	Informationsblatt, Poster
	Informationsmaterial
	Verarbeitungs-/ Bedienungsanleitung
® TM	Diese gekennzeichneten Produkte sind in ausgewählten Ländern als Warenzeichen eingetragen.
	Verkleinerung
	Vergrößerung
	Mischungsverhältnis
A B	Zwei- Komponenten: A-Komponente, B-Komponente
	Selbstklebend
	Beidseitig klebend
40	Waschbar bei 40°C im Schonwaschgang
60	Waschbar bei 60°C
	646A309 Wissen und Anwendung

Gefahrstoff-Symbolerläuterungen (R-/S-Sätze)*

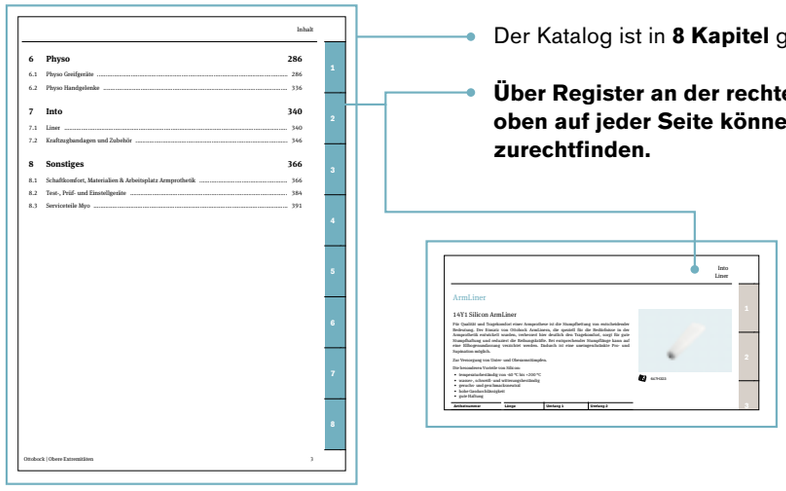
	Xi	Reizend
	Xn	Gesundheitsschädlich
	O	Brandfördernd
	F	Leichtentzündlich
	F+	Hochentzündlich
	N	Umweltgefährlich
	C	Ätzend
	T	Giftig

Gefahrstoff-Symbolerläuterungen (P-/H-Sätze)*

Gefahrenklassen	Gefahrenkategorien
Entzündbare Gase	1
Entzündbare Aerosole	1, 2
Entzündbare Flüssigkeiten	1, 2, 3
Entzündbare Feststoffe	1, 2
Selbstzersetzende Stoffe und Gemische	Typen B, C, D, E, F
Pyrophore Flüssigkeiten	1
Pyrophore Feststoffe	1
Selbsterhitzungsfähige Stoffe und Gemische	1, 2
Stoffe und Gemische, die bei Berührung mit Wasser entzündbare Gase abgeben	1, 2, 3
Organische Peroxide	Typen B, C, D, E, F
Oxidierende Gase	1
Oxidierende Flüssigkeiten	1, 2, 3
Oxidierende Feststoffe	1, 2, 3
Auf Metalle korrosiv wirkend	1
Hautätzend	1A, 1B, 1C
Schwere Augenschädigung	1
Akute Toxizität (oral, dermal, inhalativ)	1, 2, 3
Akute Toxizität (oral, dermal, inhalativ)	4
Reizung der Haut	2
Augenreizung	2
Sensibilisierung der Haut	1
Spezifische Zielorgan-Toxizität (einmalige Exposition)	3
Atemwegsreizung	
Narkotisierende Wirkungen	
Sensibilisierung der Atemwege	1
Keimzellmutagenität	1A, 1B, 2
Karzinogenität	1A, 1B, 2
Reproduktionstoxizität	1A, 1B, 2
Spezifische Zielorgan-Toxizität (einmalige Exposition)	1, 2
Spezifische Zielorgan-Toxizität (wiederholte Exposition)	1, 2
Aspirationsgefahr	1
Gewässergefährdend	
– Akut gewässergefährdend	1
– Chronisch gewässergefährdend	1,2

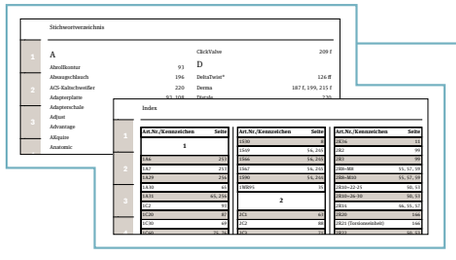
* Die abgedruckten Gefahrstoffsymbole (R-/S-Sätze und P-/H-Sätze) im Katalog entsprechen der Gefahrstoffkennzeichnung zur Zeit der Drucklegung. Diese beziehen sich auf die Materialien im Rohzustand. Änderungen vorbehalten.

Bitte beachten Sie, dass die im Katalog aufgeführten Grundfarben nicht zwingend mit der tatsächlichen Farbwirkung übereinstimmen.

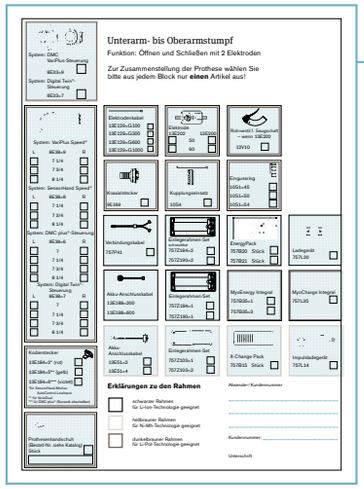


Der Katalog ist in **8 Kapitel** gegliedert.

Über Register an der rechten Seite und den Seitentiteln oben auf jeder Seite können Sie sich schnell und einfach zurechtfinden.



Das Stichwortverzeichnis enthält sämtliche Produkte in alphabetischer Reihenfolge. Ebenso können Sie über das Indexverzeichnis mittels Kennzeichen die Seite zum gesuchten Produkt auffinden.



Bestellblätter für verschiedene Produkte mit den jeweiligen Faxnummern finden Sie im Kapitel Bestellinformation / Stichwortverzeichnis / Index.

User information about the products

Application examples, product characteristics and advantages

Image of product

Name of product

8E38=8 SensorHand Speed

With quick-disconnect wrist

Suitable for all amputation levels, except wrist disarticulation. Passive wrist rotation with ratchet lock (can be replaced with the 11S30 Friction Ring). The SensorHand Speed features the automatic Auto-Grasp SUVA sensor technology, the FlexiGrip function as well as different control modes for the fitting with one or two electrodes.

13E184=* Coding Plugs of various colours or the 757T13 MyoSelect are used to select the desired control mode. Please also note the table in the user manual for this.

13E184=1 (white: DMC plus control)
13E184=2 (red: AutoControl LowInput control)
13E184=3 (green: AutoControl)
13E184=4 (blue: VarioControl)
13E184=5 (yellow: VarioDual Control)
13E184=6 (violet: DMC plus Control; SUVA sensors and FlexiGrip can be switched off)

The SensorHand Speed can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

With central coaxial plug connection, automatic shut-off electronics and integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

646D165 647H495

Article number

Article number	Side	Size	Inner hand
8E38=8-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E38=8-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E38=8-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E38=8-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E38=8-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E38=8-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

Technical Data

Technical data such as size, weight, etc.

Reference Number	8E38=8	8E38=8	8E38=8
Size	7 1/4	7 3/4	8 1/4
Operating voltage	6/7.2 V	6/7.2 V	6/7.2 V
Opening width	100 mm	100 mm	100 mm
Proportional gripping force	15-300 mm/sec	15-300 mm/sec	15-300 mm/sec
Proportional speed	0-100 N	0-100 N	0-100 N
Weight with system inner hand	462 g	462 g	462 g
for	Women, Adolescents	Men	Men

Note

- The electrode(s) must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see Page 63, 64, 65, 66

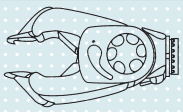
Below-Elbow to Above-Elbow Residual Limb

Function: Opening and closing using 2 electrodes

SAMPLE

Sample order for a system with EnergyPack 757B20/757B21

For the assembly of the prosthesis, please select only **one** item per box!



System: DMC VariPlus control unit
8E33=9 ☐
System: Digital Twin control unit
8E33=7 ☐

System: VariPlus Speed

L	8E38=9	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: SensorHand Speed

L	8E38=8	R
☐	7 1/4	☐
☐	7 3/4	X
☐	8 1/4	☐

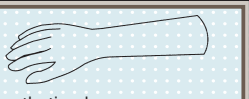
System: DMC plus control unit

L	8E38=6	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

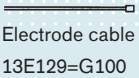
System: Digital Twin control unit

L	8E38=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

Coding plug
13E184=2* (red) ☐
13E184=5** (yellow) ☐
13E184=6*** (purple) ☐
*for SensorHand mode: Auto Control Low Input
** for VarioDual
*** for DMC plus
(sensors can be switched off)



Prosthetic glove
(For order no., see catalogue) Quantity 1
8S11N=210x78R4



Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 2
13E129=G1000 ☐

Electrode
13E202 2
13E200 50 ☐ 60 ☐

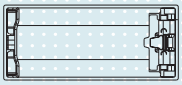
Tube valve for suction socket – if 13E202
12V10 X

Coaxial plug
9E169 X

Coupling piece
10S4 X

Lamination ring
10S1=45 ☐
10S1=50 X
10S1=54 ☐

Connection cable
757P41 X



Battery mounting set screwable
757Z184=2 X
757Z190=2 ☐

EnergyPack
757B20 Quantity 2
757B21 Quantity ☐

Battery charger
757L20 X

Battery connecting cable
13E188=200 ☐
13E188=600 ☐

Battery mounting set
757Z184=1 ☐
757Z190=1 ☐

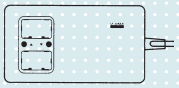
MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐

MyoCharge Integral
757L35 ☐

Battery connecting cable
13E51=2 ☐
13E51=4 ☐

Battery mounting set
757Z103=1 ☐
757Z103=2 ☐

X-Change Pack
757B15 Quantity ☐



Pulse battery charger
757L14 ☐

Frame Legend

- black frame suitable for Li-Ion technology
- light brown frame suitable for Ni-Mh technology
- dark brown frame suitable for Li-Pol technology

Sender/customer number

.....

.....

.....

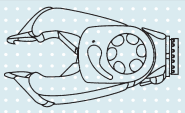
Customer no.: .....

Signature

Below-Elbow to Above-Elbow Residual Limb

Function: Opening and closing using 2 electrodes

For the assembly of the prosthesis,
please select only **one** item per box!



System: DMC
VariPlus control unit
8E33=9 ☐

System: Digital Twin
control unit
8E33=7 ☐

System: VariPlus Speed

L	8E38=9	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: SensorHand Speed

L	8E38=8	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: DMC plus control unit

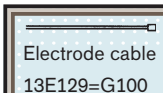
L	8E38=6	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: Digital Twin control unit

L	8E38=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

Coding plug
13E184=2* (red) ☐
13E184=5** (yellow) ☐
13E184=6*** (purple) ☐
*for SensorHand mode:
Auto Control Low Input
** for VarioDual
*** for DMC plus
(sensors can be switched off)

Prosthetic glove
(For order no.,
see catalogue) Quantity ☐

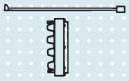


Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐

Electrode
13E202 13E200
☐ 50 ☐
☐ 60 ☐

Tube valve for suction
socket – if 13E202
12V10 ☐

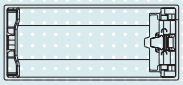
Coaxial plug
9E169 ☐



Coupling piece
10S4 ☐

Lamination ring
10S1=45 ☐
10S1=50 ☐
10S1=54 ☐

Connection cable
757P41 ☐

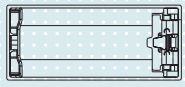


Battery mounting set
screwable
757Z184=2 ☐
757Z190=2 ☐

EnergyPack
757B20 Quantity ☐
757B21 Quantity ☐

Battery charger
757L20 ☐

Battery connecting
cable
13E188=200 ☐
13E188=600 ☐



Battery mounting set
757Z184=1 ☐
757Z190=1 ☐

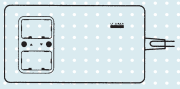
MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐

MyoCharge Integral
757L35 ☐

Battery connecting
cable
13E51=2 ☐
13E51=4 ☐

Battery mounting set
757Z103=1 ☐
757Z103=2 ☐

X-Change Pack
757B15 Quantity ☐



Pulse battery charger
757L14 ☐

Frame Legend

☐ black frame suitable for Li-Ion technology

☐ light brown frame
suitable for Ni-Mh technology

☐ dark brown frame
suitable for Li-Pol technology

Sender/customer number

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.....

.....

Customer no.: .....

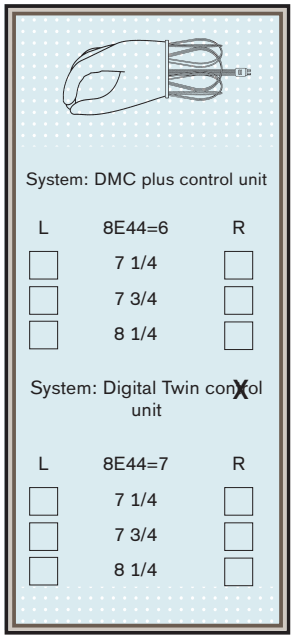
Signature

1
2
3
4
5
6
7
8

Transcarpal residual limb

Function: Opening and closing using 2 electrodes

For the assembly of the prosthesis,
please select only **one** item per box!

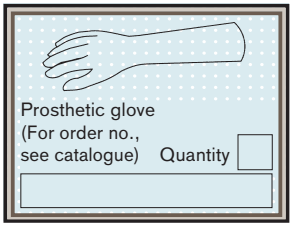


System: DMC plus control unit

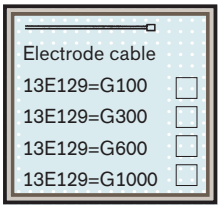
L	8E44=6	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: Digital Twin control unit X

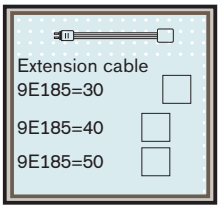
L	8E44=7	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐



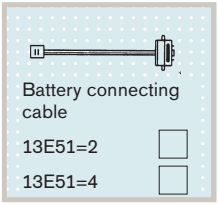
Prosthetic glove
(For order no., see catalogue) Quantity ☐



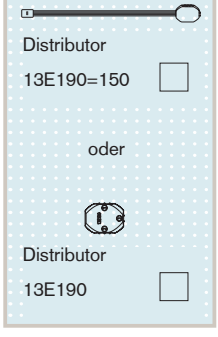
Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐



Extension cable
9E185=30 ☐
9E185=40 ☐
9E185=50 ☐



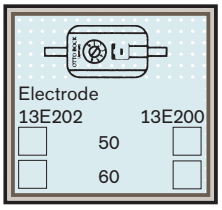
Battery connecting cable
13E51=2 ☐
13E51=4 ☐



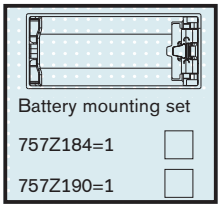
Distributor
13E190=150 ☐

oder

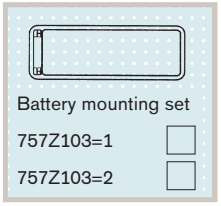
Distributor
13E190 ☐



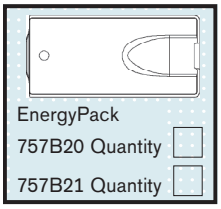
Electrode
13E202 13E200
50 ☐ ☐
60 ☐ ☐



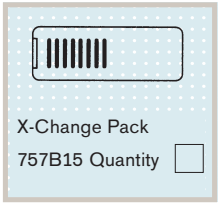
Battery mounting set
757Z184=1 ☐
757Z190=1 ☐



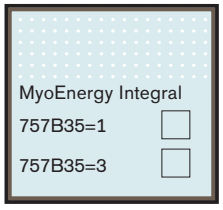
Battery mounting set
757Z103=1 ☐
757Z103=2 ☐



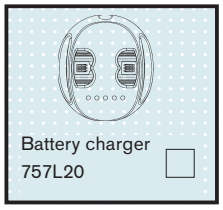
EnergyPack
757B20 Quantity ☐
757B21 Quantity ☐



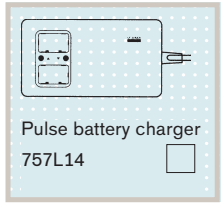
X-Change Pack
757B15 Quantity ☐



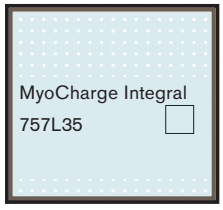
MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐



Battery charger
757L20 ☐



Pulse battery charger
757L14 ☐



MyoCharge Integral
757L35 ☐

Frame Legend

☐ black frame suitable for Li-Ion technology

☐ light brown frame suitable for Ni-Mh technology

☐ dark brown frame suitable for Li-Pol technology

Sender/customer number

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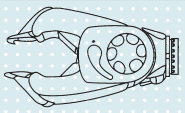
Customer no.: .....

Signature

Below-Elbow to Above-Elbow Residual Limb

Function: Opening and closing using 1 electrode

For the assembly of the prosthesis,
please select only **one** item per box!



System: DMC
VariPlus control unit
8E33=9 ☐
System: Digital Twin
control unit
8E33=7 ☐

System: VariPlus Speed

L	8E38=9	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: SensorHand Speed

L	8E38=8	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: Digital Twin control unit

L	8E38=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

Coding plug
13E184=2* (red) ☐
13E184=5** (yellow) ☐
*for AutoControl-LowInput
** for VarioDual

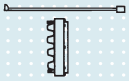
Prosthetic glove
(For order no.,
see catalogue) Quantity ☐

Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐

Electrode
13E202 13E200
☐ 50 ☐
☐ 60 ☐

Tube valve for suction
socket – if 13E202
12V10 ☐

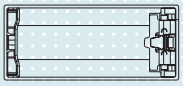
Coaxial plug
9E169 ☐



Coupling piece
10S4 ☐

Lamination ring
10S1=45 ☐
10S1=50 ☐
10S1=54 ☐

Connection cable
757P41 ☐

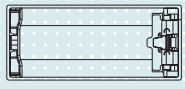


Battery mounting set
screwable
757Z184=2 ☐
757Z190=2 ☐

EnergyPack
757B20 Quantity ☐
757B21 Quantity ☐

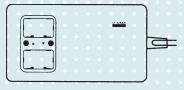
Battery charger
757L20 ☐

Battery connecting
cable
13E188=200 ☐
13E188=600 ☐



Battery mounting set
757Z184=1 ☐
757Z190=1 ☐

X-Change Pack
757B15 Quantity ☐



Pulse battery charger
757L14 ☐

Battery connecting
cable
13E51=2 ☐
13E51=4 ☐

Battery mounting set
757Z103=1 ☐
757Z103=2 ☐

MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐

MyoCharge Integral
757L35 ☐

Frame Legend

black frame suitable for Li-Ion technology

light brown frame
suitable for Ni-Mh technology
dark brown frame
suitable for Li-Pol technology

Sender/customer number

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Customer no.: .....

Signature

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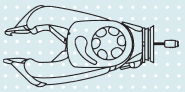
Wrist disarticulation

Function: Opening and closing using 2 electrodes

For the assembly of the prosthesis, please select only **one** item per box!



System: DMC
VariPlus control unit
8E34=9 ☐

System: Digital Twin
control unit
8E34=7 ☐

System: VariPlus Speed

L	8E39=9	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: SensorHand Speed

L	8E39=8	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: DMC plus control unit

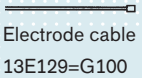
L	8E39=6	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: Digital Twin control unit

L	8E39=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

Coding plug
13E184=2* (red) ☐
13E184=5** (yellow) ☐
13E184=6*** (purple) ☐
*for SensorHand mode:
Auto Control Low Input
** for VarioDual
*** for DMC plus
(sensors can be switched off)

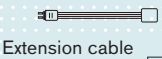
Prosthetic glove
(For order no.,
see catalogue) Quantity ☐



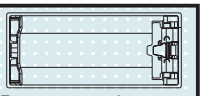
Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐

Electrode
13E202 13E200
☐ 50 ☐
☐ 60 ☐

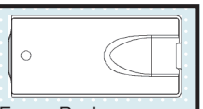
Tube valve for suction
socket – if 13E202
12V10 ☐



Extension cable
9E185=30 ☐
9E185=40 ☐
9E185=50 ☐



Battery mounting set
screwable
757Z184=2 ☐
757Z190=2 ☐



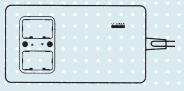
EnergyPack
757B20 Quantity ☐
757B21 Quantity ☐

Battery charger
757L20 ☐

Battery connecting
cable
13E51=2 ☐
13E51=4 ☐

Battery mounting set
757Z103=1 ☐
757Z103=2 ☐

X-Change Pack
757B15 Quantity ☐



Pulse battery charger
757L14 ☐

Distributor
13E190=150 ☐

oder

Distributor
13E190 ☐

MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐

MyoCharge Integral
757L35 ☐

Frame Legend

black frame suitable for Li-Ion technology

light brown frame
suitable for Ni-Mh technology
dark brown frame
suitable for Li-Pol technology

Sender/customer number

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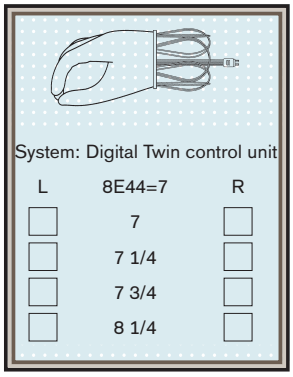
Customer no.: .....

Signature

Transcarpal residual limb

Function: Opening and closing using 1 electrode

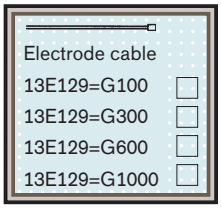
For the assembly of the prosthesis,
please select only **one** item per box!



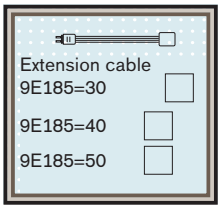
System: Digital Twin control unit

L	8E44=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

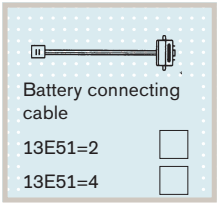
Prosthetic glove
(For order no.,
see catalogue) Quantity ☐



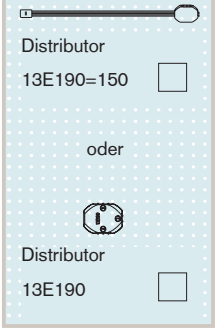
Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐



Extension cable
9E185=30 ☐
9E185=40 ☐
9E185=50 ☐



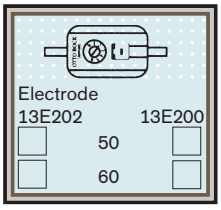
Battery connecting cable
13E51=2 ☐
13E51=4 ☐



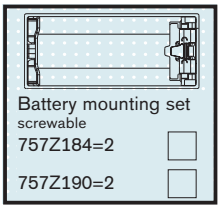
Distributor
13E190=150 ☐

oder

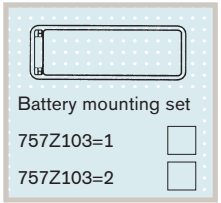
Distributor
13E190 ☐



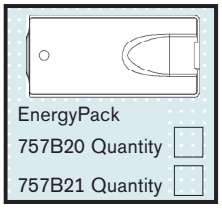
Electrode
13E202 13E200
☐ 50 ☐
☐ 60 ☐



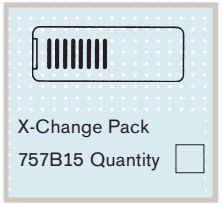
Battery mounting set
screwable
757Z184=2 ☐
757Z190=2 ☐



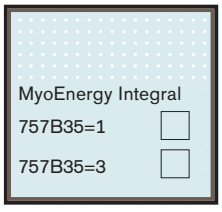
Battery mounting set
757Z103=1 ☐
757Z103=2 ☐



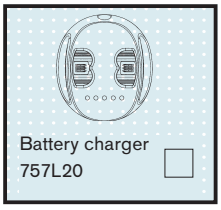
EnergyPack
757B20 Quantity ☐
757B21 Quantity ☐



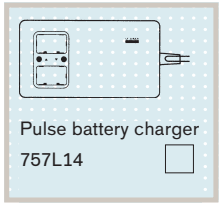
X-Change Pack
757B15 Quantity ☐



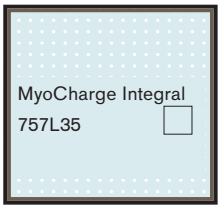
MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐



Battery charger
757L20 ☐



Pulse battery charger
757L14 ☐



MyoCharge Integral
757L35 ☐

Frame Legend

black frame suitable for Li-Ion technology

light brown frame
suitable for Ni-Mh technology
dark brown frame
suitable for Li-Pol technology

Sender/customer number

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Customer no.: .....

Signature

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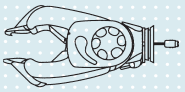
Wrist disarticulation

Function: Opening and closing using 1 electrode

For the assembly of the prosthesis, please select only **one** item per box!



System: DMC
VariPlus control unit
8E34=9 ☐
System: Digital Twin
control unit
8E34=7 ☐

System: VariPlus Speed

L	8E39=9	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: SensorHand Speed

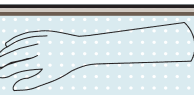
L	8E39=8	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: Digital Twin control unit

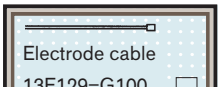
L	8E39=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

Coding plug
13E184=3* (grün) ☐
13E184=4** (blau) ☐

*for SensorHand mode:
Auto Control Low Input
** for VarioDual



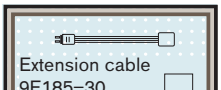
Prosthetic glove
(For order no.,
see catalogue) Quantity ☐



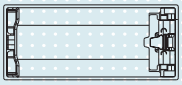
Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐

Electrode
13E202 13E200
☐ 50 ☐
☐ 60 ☐

Tube valve for suction
socket – if 13E202
12V10 ☐



Extension cable
9E185=30 ☐
9E185=40 ☐
9E185=50 ☐



Battery mounting set
screwable
757Z184=2 ☐
757Z190=2 ☐

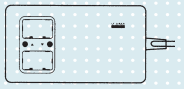
EnergyPack
757B20 Quantity ☐
757B21 Quantity ☐

Battery charger
757L20 ☐

Battery connecting
cable
13E51=2 ☐
13E51=4 ☐

Battery mounting set
757Z103=1 ☐
757Z103=2 ☐

X-Change Pack
757B15 Quantity ☐



Pulse battery charger
757L14 ☐

Distributor
13E190=150 ☐

oder

Distributor
13E190 ☐

MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐

MyoCharge Integral
757L35 ☐

Frame Legend

- black frame suitable for Li-Ion technology
- light brown frame suitable for Ni-Mh technology
- dark brown frame suitable for Li-Pol technology

Sender/customer number

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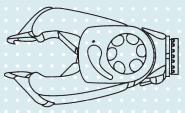
Customer no.: .....

Signature

Below-Elbow to Above-Elbow Residual Limb

Function: Opening and closing using 2 electrodes and pronation and supination or MyoRotronic

For the assembly of the prosthesis, please select only **one** item per box!



System: DMC VariPlus control unit

8E33=9 ☐

System: Digital Twin control unit

8E33=7 ☐

System: VariPlus Speed

L	8E38=9	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: SensorHand Speed

L	8E38=8	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: DMC plus control unit

L	8E38=6	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: Digital Twin control unit

L	8E38=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

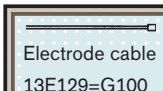
Coding plug

13E184=5* (yellow) ☐

13E184=6** (purple) ☐

*for SensorHand mode: VarioDual
** DMC plus (sensors can be switched off)

Prosthetic glove (For order no., see catalogue) Quantity ☐



Electrode cable

13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐

Electrode

13E202 ☐ 50 ☐ 13E200

60 ☐ ☐

Electric wrist rotator

10S17 ☐

Lamination ring

10S1=45 ☐
10S1=50 ☐
10S1=54 ☐

MyoRedronic

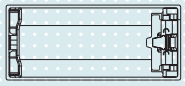
13E205 ☐

Tube valve for suction socket – if 13E202

12V10 ☐

Connection cable

757P41 ☐



Battery mounting set screwable

757Z184=2 ☐
757Z190=2 ☐

EnergyPack

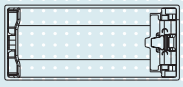
757B20 Quantity ☐
757B21 Quantity ☐

Battery charger

757L20 ☐

Battery connecting cable

13E188=200 ☐
13E188=600 ☐

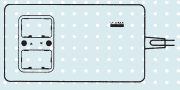


Battery mounting set

757Z184=1 ☐
757Z190=1 ☐

X-Change Pack

757B15 Quantity ☐



Pulse battery charger

757L14 ☐

Battery connecting cable

13E51=2 ☐
13E51=4 ☐

Battery mounting set

757Z103=1 ☐
757Z103=2 ☐

MyoEnergy Integral

757B35=1 ☐
757B35=3 ☐

MyoCharge Integral

757L35 ☐

Frame Legend

black frame suitable for Li-Ion technology

light brown frame suitable for Ni-Mh technology

dark brown frame suitable for Li-Pol technology

Sender/customer number

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Customer no.: .....

Signature

1
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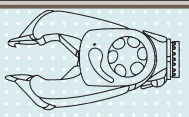
8

Below-Elbow to Above-Elbow Residual Limb

Function: Opening and closing using 2 electrodes and pronation and supination using switch



System: DMC
VariPlus control unit
8E33=9 ☐
System: Digital Twin
control unit
8E33=7 ☐

System: VariPlus Speed

L	8E38=9	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: SensorHand Speed

L	8E38=8	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

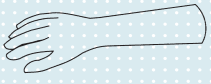
System: DMC plus control unit

L	8E38=6	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: Digital Twin control unit

L	8E38=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

Coding plug
13E184=2* (red) ☐
13E184=5** (yellow) ☐
13E184=6*** (purple) ☐
* for SensorHand mode:
AutoControl-LowInput
** for VarioDual
*** for DMC plus
(sensors can be switched off)



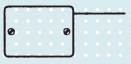
Prosthetic glove
(For order no.,
see catalogue) Quantity ☐

Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐

Electrode
13E202 13E200
50 ☐ ☐
60 ☐ ☐

Tube valve for suction
socket – if 13E202
12V10 ☐

Harness pull switch
9X14 ☐



Cable pull switch
9X18 ☐

Rocker switch
9X25 ☐

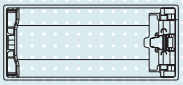
Electric wrist rotator
10S17 ☐

Lamination ring
10S1=45 ☐
10S1=50 ☐
10S1=54 ☐

Connecting cable
13E50=250 ☐
13E50=1200 ☐

Connecting cable
13E97=250 ☐
13E97=1200 ☐

Connection cable
757P41 ☐

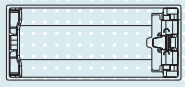


Battery mounting set
screwable
757Z184=2 ☐
757Z190=2 ☐

EnergyPack
757B20 Quantity ☐
757B21 Quantity ☐

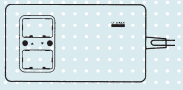
Battery charger
757L20 ☐

Battery connecting
cable
13E188=200 ☐
13E188=600 ☐



Battery mounting set
757Z184=1 ☐
757Z190=1 ☐

X-Change Pack
757B15 Quantity ☐



Pulse battery charger
757L14 ☐

Battery connecting
cable
13E51=2 ☐
13E51=4 ☐

Battery mounting set
757Z103=1 ☐
757Z103=2 ☐

MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐

MyoCharge Integral
757L35 ☐

Frame Legend

☐ black frame suitable for Li-Ion technology

☐ light brown frame suitable for Ni-Mh technology

☐ dark brown frame suitable for Li-Pol technology

Sender/customer number

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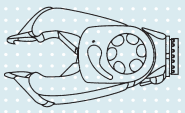
Customer no.: .....

Signature

Below-Elbow to Above-Elbow Residual Limb

Function: Opening and closing using 1 electrode and pronation and supination using switch



System: DMC VariPlus control unit ☐
8E33=9

System: Digital Twin control unit ☐
8E33=7

System: VariPlus Speed

L	8E38=9	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: SensorHand Speed

L	8E38=8	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: DMC plus control unit

System: Digital Twin control unit

L	8E38=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

Coding plug
13E184=3* (red) ☐
13E184=4** (yellow) ☐
* for AutoControl
** for VarioControl

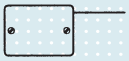
Prosthetic glove
(For order no., see catalogue) Quantity ☐

Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐

Electrode
13E202 13E200
☐ 50 ☐
☐ 60 ☐

Tube valve for suction socket – if 13E202
12V10 ☐

Harness pull switch
9X14 ☐



Cable pull switch
9X18 ☐

Rocker switch
9X25 ☐

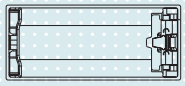
Connecting cable
13E50=250 ☐
13E50=1200 ☐

Connecting cable
13E97=250 ☐
13E97=1200 ☐

Electric wrist rotator
10S17 ☐

Lamination ring
10S1=45 ☐
10S1=50 ☐
10S1=54 ☐

Connection cable
757P41 ☐

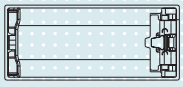


Battery mounting set
screwable
757Z184=2 ☐
757Z190=2 ☐

EnergyPack
757B20 Quantity ☐
757B21 Quantity ☐

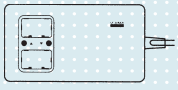
Battery charger
757L20 ☐

Battery connecting cable
13E188=200 ☐
13E188=600 ☐



Battery mounting set
757Z184=1 ☐
757Z190=1 ☐

X-Change Pack
757B15 Quantity ☐



Pulse battery charger
757L14 ☐

Battery connecting cable
13E51=2 ☐
13E51=4 ☐

Battery mounting set
757Z103=1 ☐
757Z103=2 ☐

MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐

MyoCharge Integral
757L35 ☐

Frame Legend

black frame suitable for Li-Ion technology

light brown frame
suitable for Ni-Mh technology
dark brown frame
suitable for Li-Pol technology

Sender/customer number

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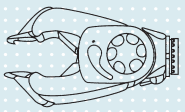
Customer no.: .....

Signature

1 2 3 4 5 6 7 8

Below-Elbow to Above-Elbow Residual Limb

Function: Opening and closing using switch



System: DMC
VariPlus control unit
8E33=9 ☐
System: Digital Twin
control unit
8E33=7 ☐

System: VariPlus Speed

L	8E38=9	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: SensorHand Speed

L	8E38=8	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

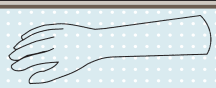
System: DMC plus control unit

System: Digital Twin control unit

L	8E38=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

Coding plug
13E184=2* (red) ☐
13E184=3** (grün) ☐
13E184=4*** (blau) ☐

* for AutoControl-LowInput
** for AutoControl
*** for VarioControl



Prosthetic glove
(For order no.,
see catalogue) Quantity ☐

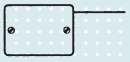
Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐

Connecting cable
13E99=1200 ☐

Linear transducer
9X50 ☐

Linear transducer
9X52 ☐

Harness pull switch
9X14 ☐



Cable pull switch
9X18 ☐

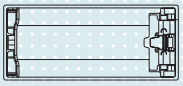
Rocker switch
9X25 ☐
Pressure switch
9X37 ☐

Coaxial plug
9E169 ☐

Coupling piece
10S4 ☐

Lamination ring
10S1=45 ☐
10S1=50 ☐
10S1=54 ☐

Connection cable
757P41 ☐

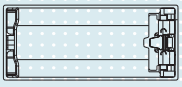


Battery mounting set
screwable
757Z184=2 ☐
757Z190=2 ☐

EnergyPack
757B20 Quantity ☐
757B21 Quantity ☐

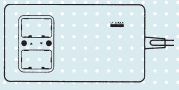
Battery charger
757L20 ☐

Battery connecting
cable
13E188=200 ☐
13E188=600 ☐



Battery mounting set
757Z184=1 ☐
757Z190=1 ☐

X-Change Pack
757B15 Quantity ☐



Pulse battery charger
757L14 ☐

Battery connecting
cable
13E51=2 ☐
13E51=4 ☐

Battery mounting set
757Z103=1 ☐
757Z103=2 ☐

MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐

MyoCharge Integral
757L35 ☐

Frame Legend

black frame suitable for Li-Ion technology

light brown frame
suitable for Ni-Mh technology
dark brown frame
suitable for Li-Pol technology

Sender/customer number

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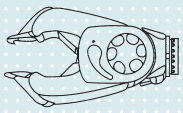
Customer no.: .....

Signature



System: DMC
VariPlus control unit
8E33=9 ☐
System: Digital Twin control unit
8E33=7 ☐

System: VariPlus Speed

L	8E38=9	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: SensorHand Speed

L	8E38=8	R
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

System: DMC plus control unit
System: Digital Twin control unit

L	8E38=7	R
☐	7	☐
☐	7 1/4	☐
☐	7 3/4	☐
☐	8 1/4	☐

Coding plug
13E184=2* (red) ☐
13E184=3** (grün) ☐
13E184=4*** (blau) ☐
* for SensorHand mode: AutoControl-LowInput
** for AutoControl
*** for VarioControl

Prosthetic glove
(For order no., see catalogue) Quantity ☐

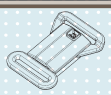
Electrode cable
13E129=G100 ☐
13E129=G300 ☐
13E129=G600 ☐
13E129=G1000 ☐

Connecting cable
13E99=1200 ☐

Harness pull switch
9X14 ☐

Cable pull switch
9X18 ☐

Rocker switch
9X25 ☐



Linear transducer
9X50 ☐

Linear transducer
9X52 ☐

Tube valve for suction socket – if 13E202
12V10 ☐

Harness pull switch
9X14 ☐

Cable pull switch
9X18 ☐

Rocker switch
9X25 ☐

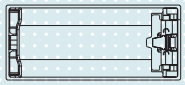
Connecting cable
13E50=250 ☐
13E50=1200 ☐

Connecting cable
13E97=250 ☐
13E97=1200 ☐

Electric wrist rotator
10S17 ☐

Lamination ring
10S1=45 ☐
10S1=50 ☐
10S1=54 ☐

Connection cable
757P41 ☐

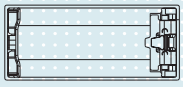


Battery mounting set
screwable
757Z184=2 ☐
757Z190=2 ☐

EnergyPack
757B20 Quantity ☐
757B21 Quantity ☐

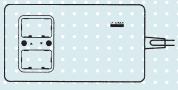
Battery charger
757L20 ☐

Battery connecting cable
13E188=200 ☐
13E188=600 ☐



Battery mounting set
757Z184=1 ☐
757Z190=1 ☐

X-Change Pack
757B15 Quantity ☐



Pulse battery charger
757L14 ☐

Battery connecting cable
13E51=2 ☐
13E51=4 ☐

Battery mounting set
757Z103=1 ☐
757Z103=2 ☐

MyoEnergy Integral
757B35=1 ☐
757B35=3 ☐

MyoCharge Integral
757L35 ☐

Frame Legend

black frame suitable for Li-Ion technology

light brown frame
suitable for Ni-Mh technology
dark brown frame
suitable for Li-Pol technology

Sender/customer number

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Customer no.: .....

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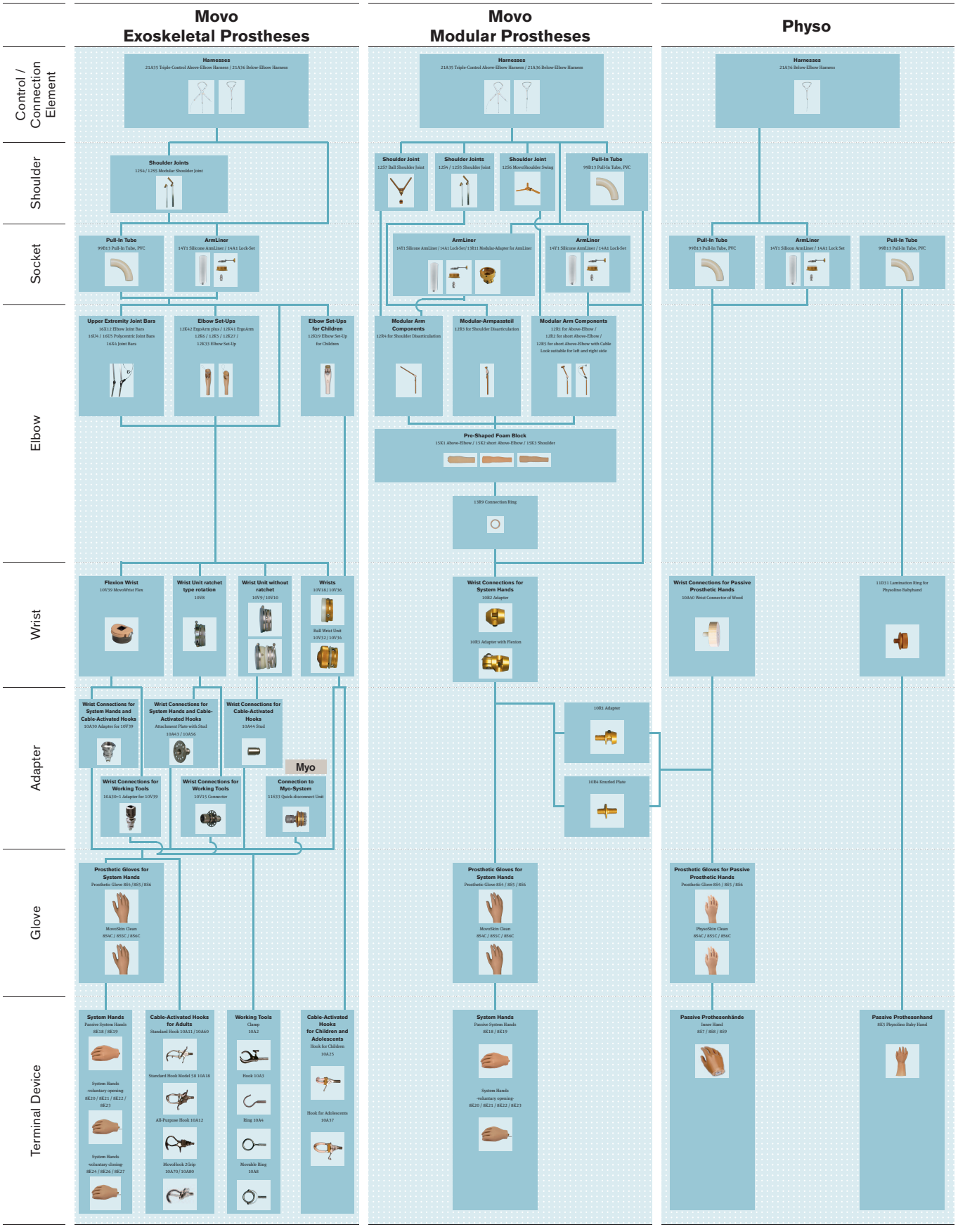
Arm Prostheses System Overview



CUSTOMER SERVICE is capitalized at Otto Bock. Our competent staff are available to you in person with extensive technical know-how at your disposal, you will learn about the latest developments and provide advice on all matters relating to our products. For complex issues, our product experts and specialists will be in the processing technology. Highly qualified sales representatives help you with specific technical solutions and their implementation on the ground. In addition, we offer comprehensive service and marketing concepts.

On www.ottobock.de you can always find the latest product information.

Axon-Bus Prosthetic System

646D501=EN
646D592=EN
646D593=EN

646D591
646F409
646T3=3.4
647D115
647G587
647G589
647G590
647G591
647G592
647G593
647G596

8K500 Michelangelo Hand with Axon-Bus Prosthetic System

The Axon-Bus System is a new system for transradial fittings. Axon stands for Adaptive exchange of neuroplacement data. The Axon-Bus itself is a new development by Ottobock for the field of exoprosthetics. It was derived from safety-related bus systems in the aviation and motor vehicle industries and is a true innovation of our Research and Development department.

The advantage is that it constitutes a self-contained data transmission system in which all components are optimally adapted to each other. 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. Compared to conventional systems, this is achieved by a significant reduction in sensitivity to outside interference.

In combination with the Michelangelo Hand, the Axon-Bus System offers more degrees of freedom than ever before. The user benefits from enhanced hand functionality. The modular prosthetic system can be expanded with additional components in the future. The adaptation of the DynamicArm and ErgoArm, additional hand sizes, electric rotation and flexion for the wrist joint, new electrodes and a new gripper or hook along with the realisation of additional features are all in progress. These components will be harmonised with the Axon-Bus system.

The current Axon-Bus System is suitable for transradial fittings only.

It consists of the following components:

- Michelangelo Hand
- AxonSkin Natural
- AxonWrist
- AxonEnergy Integral
- AxonCharge Integral
- AxonMaster
- AxonSoft

Article number	Side	Size	for
8K500=R-M	Right	M (7 3/4)	Women, men
8K500=L-M	Left	M (7 3/4)	Women, men

The individual components of the Axon-Bus prosthetic system cannot be ordered separately at this time, but are only available as the all-inclusive package 8K500=*.

8E500 Michelangelo Hand

The 8E500 Michelangelo Hand is to be used exclusively for exoprosthetic fittings of the upper limbs and serves as an anatomical replacement for the human hand.
The 8E500 Michelangelo Hand can be used for unilateral or bilateral amputees from a transradial amputation level or in the case of dysmelia with forearm fittings.
The Michelangelo Hand cannot be combined with components of the Ottobock MyoBock system or components from other manufacturers.

646D501=EN 647G587

Article number	Side	Size
8E500=L-M	Left (L)	M (7 3/4)
8E500=R-M	Right (R)	M (7 3/4)

Reference Number	8E500
Size	M (7 3/4)
Weight	420 g
Operating voltage	11,1 V
Operating temperature	-10 bis +60 °C
Storage temperature	(-)20 - (+) 40 °C
Relative humidity	max. 80% non-condensing
Opening width	120 mm
Gripping force in Opposition Mode	70 N
Gripping force in Lateral Mode	60 N
Gripping force in Neutral Mode	15 N
Average speed	325 mm/sec
for	Women, men

AxonSkin Natural

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 the Ottobock Michelangelo Hand.
Use the colour pattern set N 646M47 to determine the colour.
The Michelangelo Hand is locked with the help of the hand holding tool (711M64) and hand holding tool (711M1) in order to apply and remove the prosthesis glove.

646D501=EN 647G596

Article number	Side	Colour	For
8S501=L-M2	Left (L)	2	Men
8S501=R-M2	Right (R)	2	Men
8S501=L-M4	Left (L)	4	Men
8S501=R-M4	Right (R)	4	Men
8S501=L-M6	Left (L)	6	Men
8S501=R-M6	Right (R)	6	Men
8S501=L-M8	Left (L)	8	Men
8S501=R-M8	Right (R)	8	Men
8S501=L-M11	Left (L)	11	Men
8S501=R-M11	Right (R)	11	Men
8S501=L-M16	Left (L)	16	Men
8S501=R-M16	Right (R)	16	Men

Article number	Side	Colour	For
8S502=L-M2	Left (L)	2	Women
8S502=R-M2	Right (R)	2	Women
8S502=L-M4	Left (L)	4	Women
8S502=R-M4	Right (R)	4	Women
8S502=L-M6	Left (L)	6	Women
8S502=R-M6	Right (R)	6	Women
8S502=L-M8	Left (L)	8	Women
8S502=R-M8	Right (R)	8	Women
8S502=L-M11	Left (L)	11	Women
8S502=R-M11	Right (R)	11	Women
8S502=L-M16	Left (L)	16	Women
8S502=R-M16	Right (R)	16	Women

646D501=EN 647G596

8S500 AxonSkin Visual / AxonSkin Black

The AxonSkin Visual and AxonSkin Black are two additional PVC gloves for the Michelangelo Hand.
The Michelangelo Hand is locked with the help of the hand holding tool (711M64) and hand holding tool (711M1) in order to apply and remove the prosthesis glove.

Article number	Side	Colour
8S500=R-M0	Right (R)	Visual
8S500=L-M0	Left (L)	Visual
8S500=R-M20	Right (R)	Black
8S500=L-M20	Left (L)	Black

10V500 AxonWrist

The 10V500=2 AxonWrist in combination with the Michelangelo Hand facilitates a fitting within the framework of the modular Ottobock Axon-Bus prosthetic system.
The 10V500=2 AxonWrist allows passive flexion/extension and passive pronation/supination. These functions support the user during his or her daily activities and provide the highest rehabilitation value. The 10V500=2 AxonWrist promotes a physiologically correct body posture and reduces the need for unnatural, compensating body movements.
The 10V500=2 AxonWrist is to be used exclusively for exoprosthetic fittings of the upper limbs and enables passive rotation and flexion of the Michelangelo Hand.
In combination with myo-controlled gripping prostheses of the Ottobock Axon-Bus modular prosthetic system, the 10V500=2 AxonWrist can be applied to a transradial amputation level and to cases of dysmelia forearm fittings.

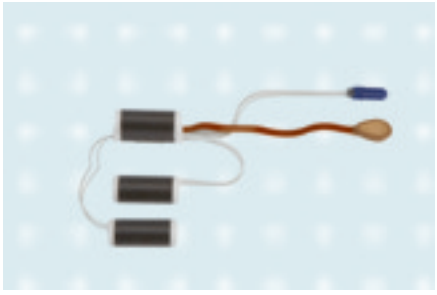
646D501=EN 647G589

Article number	Side
10V500=2L	Left (L)
10V500=2R	Right (R)

Reference Number	10V500
Weight	ca. 180 g
Operating temperature	-10 bis +60 °C
Storage temperature	(-) 20 - (+) 40 °C
Transport temperature	(-) 20 - (+) 40 °C
Relative humidity	max. 80 %, non-condensing
Rotation, flexion	75° / 4 ratchet positions
Rotation, extension	45° / 3 ratchet positions
Pronation / supination	360 °C

757B500 AxonEnergy Integral

The 757B500 AxonEnergy Integral serves exclusively to provide power to the Axon-Bus prosthetic system. The battery consists of 3 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 prosthesis components to the battery.
The 757B500 AxonEnergy Integral may only be used in conjunction with components of the Ottobock Axon-Bus prosthetic system. Only the 757L500 AxonCharge Integral may be used for charging.



646D501=EN 647G592

Article number	757B500
Weight	142 g
Operating temperature	0 bis +60 °C
Storage temperature	(-) 20 - (+) 40 °C
Transport temperature	(-) 20 - (+) 40 °C
Relative humidity	max. 80% non-condensing
Capacity	1500 mAh
Dimensions LxWxH	75 x 60 x 21 mm
Approx. output voltage	11.1 V
Approx. charging time	3.5 h

646D501=EN 647G593

757L500 AxonCharge Integral

The 757L500 AxonCharge Integral is designed to charge the 757B500 AxonEnergy Integral of the Ottobock Axon-Bus prosthetic system.
Charging is performed automatically after the charging plug has been connected to the charging receptacle of the 757B500 AxonEnergy Integral. 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 when the charger is ready and the current battery capacity.
The 757L500 AxonCharge Integral is intended exclusively for the purpose of charging the 757B500 AxonEnergy Integral.

Article number	757L500
Operating temperature	0 bis +60 °C
Storage temperature	(-) 20 - (+) 40 °C
Transport temperature	(-) 20 - (+) 40 °C
Relative humidity	max. 80% non-condensing

646D501=EN 647G590

13E500 AxonMaster

The 13E500 AxonMaster is the central control unit in the Axon-Bus prosthetic system. The AxonMaster samples the user's control signals and routes them to the corresponding prosthesis components via the Axon-Bus (joint control and power supply connection). This allows the user to control the prosthesis and switch between the prosthesis components. The AxonMaster also controls the data communication process of the Axon-Bus. The 13E500 AxonMaster is intended exclusively for exoprosthetic fittings of the upper limbs and serves to control and coordinate all active Ottobock Axon-Bus prosthesis components within the system.

5 control programmes are available:

- MultiGrip
- DMC LowInput
- Digital
- VarioControl
- DoubleChannel

Article number	13E500
Weight	15 g
Operating voltage	11,1 V
Operating temperature	0 bis +60 °C
Storage temperature	(-) 20 - (+) 60 °C
Transport temperature	(-) 20 - (+) 60 °C
Relative humidity	max. 80% non-condensing
Power supply	757B500
Dimensions	53 x 28 x 9 mm

560X500=V1.0 AxonSoft

The 560X500=* AxonSoft software is intended exclusively as a tool for adjusting the 13E500 AxonMaster within the framework of unilateral or bilateral prosthetic fittings with the Michelangelo Hand and the Axon-Bus system components for the upper limb.

The 60X5 BionicLink PC is the only permissible method of data transfer between the system components.

646D501=EN 647G591

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

- 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 drive 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 (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

Accessories

711M64 Donning Tool for Michelangelo

The Donning Tool 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.

711M1 Assembly Tool

One side with M12x1.5 outer thread and other side with M12x1.5 outer thread for Otto Bock System Electric Hands and Michelangelo Hand

Myo Terminal Devices

Electric Hand 2000

The Otto Bock hand system can be operated for 1 1/2 to 13-year-old children. In the Electric Hand 2000, the thumb and fingers rotate around the same axis, thereby executing a more compact rotation. Therefore, objects can be gripped without unnatural compensating movements of the forearm and upper arm.
As a result, the design of the fingers enables the user to hold writing or eating utensils in a more natural manner. In order to achieve a low weight, the chassis components were covered with flexible plastic covers. Therefore, an inner hand was not required.

For the **sizes 5 1/2, 6** and **6 1/2**, the drive consists of **two motors** with a multi-stage overriding drive. The 1st motor opens and closes the hand at high speed and low strength. Therefore, the object being gripped is handled with a gentle touch. If the object is to be gripped tightly, the 2nd motor is activated and the required gripping strength is established. A slip clutch makes it possible to passively open the hand in an emergency, and protects the mechanical components against overloads.

In contrast to the other hand sizes, **size 5** is operated with **one motor**. Furthermore, the hand can also be passively opened via a spring. This makes gripping training for small children easier. The **E**lectronic **V**oluntary **O**pening Control was designed for ease in control of the hand for those children who are only able to generate one muscle signal. The **EVO** Control is operated by a single electrode. The controller for the children's system allows for selection between digital, proportional and **EVO**- control options. Its special design even allows for the fitting of children with very long below-elbow residual limbs, while maintaining a fitting length that matches the length of the sound arm.
The 757M11 MyoBoy assists in placing the electrodes and ensuring ideal system arrangement.

8E51 Electric Hand 2000

For 4.8/7.4 Volt MyoBock System

Suitable for virtually all levels of amputation
With 9E347=* Finger Filler, passive hand rotation and central and centralised friction contact, **without**cosmetic glove, **without** controller and **without** lamination ring.
Available in four sizes:
Size 5 for children between 1 1/2 and 3 years old
Size 5 1/2 for children between 3 and 6 years old
Size 6 for children between 5 and 10 years old
Size 6 1/2 for children between 8 and 13 years old

The Electric Hand 2000 can be used for children fittings with 4.8 V and 7.4 V depending on the controller used.

646D326
646D442

647H58

Article number	Side	Size	Lamination Ring	Prosthetic Glove
8E51=L5	Left (L)	5	10S16=34	8S20(N)=136x41L
8E51=L5 1/2	Left (L)	5 1/2	10S16=34	8S20(N)=147x45L
8E51=L6	Left (L)	6	10S16=38	8S20(N)=162x56L
8E51=L6 1/2	Left (L)	6 1/2	10S16=38	8S20(N)=177x64L
8E51=R5	Right (R)	5	10S16=34	8S20(N)=136x41R
8E51=R5 1/2	Right (R)	5 1/2	10S16=34	8S20(N)=147x45R
8E51=R6	Right (R)	6	10S16=38	8S20(N)=162x56R
8E51=R6 1/2	Right (R)	6 1/2	10S16=38	8S20(N)=177x64R

Technical Data

Reference Number	8E51	8E51	8E51	8E51
Size	5	5 1/2	6	6 1/2
Operating voltage	4.8/7.4 V	4.8/7.4 V	4.8/7.4 V	4.8/7.4 V
Approx. average current consumption	200 mA	200 mA	200 mA	200 mA
Electrical "Close" switch at approx.	400 mA	400 mA	400 mA	400 mA
Electrical "Open" switch at approx.	400 mA	250 mA	250 mA	250 mA
Opening width	28 mm	37 mm	52 mm	58 mm
Approx. minimum grip force	8 N	25 N	35 N	35 N
Weight (without prosthetic glove)	86 g	115 g	125 g	130 g

For suitable system prosthetic glove, see pages 76-77, 79

Spare parts for Children's Hand 2000

9E342 Finger Cover

Article number	For hand size
9E342=5	5
9E342=5 1/2	5 1/2
9E342=6	6
9E342=6 1/2	6 1/2

Technical Data

Reference Number	9E342
Material	Made of thermoplastic material
Consists of:	consists of thumb, index finger and middle finger cover

9E347 Finger Filler

Used to fill the little and ring fingers in the 8S20 Prosthetic Glove.

Article number	Side	For size
9E347=L5	Left (L)	5
9E347=R5	Right (R)	5
9E347=L5 1/2	Left (L)	5 1/2
9E347=R5 1/2	Right (R)	5 1/2
9E347=L6	Left (L)	6
9E347=R6	Right (R)	6
9E347=L6 1/2	Left (L)	6 1/2
9E347=R6 1/2	Right (R)	1 /2

SensorHand Speed

When it comes to gripping speed and the ability to control it, the new SensorHand Speed beats all Electric Hands available up to now by lengths: it offers a maximum gripping speed of 300 mm/sec (up to now: 130 mm/sec)! Nevertheless, the SensorHand Speed‘s control is particularly easy and precise thanks to new intelligent software and modified signal processing.

The SensorHand Speed with SUVA* Sensor Technology improves secure grasp and the ability to hold on to objects. Via the sensor integrated into the thumb and a measurement bracket, the SensorHand Speed recognises when the gripped object changes position and then automatically readjusts the gripping force. Therefore, the user does not need to constantly monitor the gripped object in order to readjust manually. This improvement in gripping security provides effective everyday relief.

Various control options using one or two electrodes are available. Simply exchange the 13E184=* Coloured Coding Plugs or use the 757T13 MyoSelect to determine the control mode. There's peace of mind knowing the Otto Bock SensorHand Speed makes it easier to grasp fragile objects or liquid-filled containers.

Developed in cooperation with the **S**wiss **I**nsurance**A**gency

8E38=8 SensorHand Speed

646D165 647H495

With quick-disconnect wrist

Suitable for all amputation levels, except wrist disarticulation. Passive wrist rotation with ratchet lock (can be replaced with the 11S30 Friction Ring). The SensorHand Speed features the automatic Auto-Grasp SUVA sensor technology, the FlexiGrip function as well as different control modes for the fitting with one or two electrodes.

13E184=* Coding Plugs of various colours or the 757T13 MyoSelect are used to select the desired control mode. Please also note the table in the user manual for this.

13E184=1 (white: DMC plus control)
13E184=2 (red: AutoControl LowInput control)
13E184=3 (green: AutoControl)
13E184=4 (blue: VarioControl)
13E184=5 (yellow: VarioDual Control)
13E184=6 (violet: DMC plus Control; SUVA sensors and FlexiGrip can be switched off)

The SensorHand Speed can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

With central coaxial plug connection, automatic shut-off electronics and integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

Article number	Side	Size	Inner hand
8E38=8-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E38=8-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E38=8-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E38=8-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E38=8-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E38=8-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

Technical Data

Reference Number	8E38=8	8E38=8	8E38=8
Size	7 1/4	7 3/4	8 1/4
Operating voltage	6/7.2 V	6/7.2 V	6/7.2 V
Opening width	100 mm	100 mm	100 mm
Proportional gripping force	15-300 mm/sec	15-300 mm/sec	15-300 mm/sec
Proportional speed	0-100 N	0-100 N	0-100 N
Weight with system inner hand	462 g	462 g	462 g
for	Women, Adolescents	Men	Men

- The electrode(s) must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

646D165 647H495

8E39=8 SensorHand Speed

With lamination ring

For wrist disarticulation. Passive wrist rotation with friction. The SensorHand Speed features the automatic Auto-Grasp SUVA sensor technology, the FlexiGrip function as well as different control modes for the fitting with one or two electrodes.

13E184=* Coding Plugs of various colours or the 757T13 MyoSelect are used to select the desired control mode. Please also note the table in the user manual for this.

13E184=1 (white: DMC plus control)
13E184=2 (red: AutoControl LowInput control)
13E184=3 (green: AutoControl)
13E184=4 (blue: VarioControl)
13E184=5 (yellow: VarioDual Control)
13E184=6 (violet: DMC plus Control; SUVA sensors and FlexiGrip can be switched off)

The SensorHand Speed can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

It features a central flat cable, automatic shut-off electronics and integrated on-off switch, low friction bevel gear, positive back lock, and System Inner Hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

Article number	Side	Size	Inner hand
8E39=8-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E39=8-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E39=8-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E39=8-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E39=8-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E39=8-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

Technical Data

Reference Number	8E39=8	8E39=8	8E39=8
Size	7 1/4	7 3/4	8 1/4
Operating voltage	6/7.2 V	6/7.2 V	6/7.2 V
Opening width	100 mm	100 mm	100 mm
Proportional gripping force	0-100 N	0-100 N	0-100 N
Proportional speed	15-300 mm/sec	15-300 mm/sec	15-300 mm/sec
Weight with system inner hand	462 g	462 g	462 g
for	Women, Adolescents	Men	Men

- The electrode(s) must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

8E41=8 SensorHand Speed

With threaded stud M12x1.5

Suitable for all amputation levels, except wrist disarticulation.
The SensorHand Speed features the automatic Auto-Grasp SUVA sensor technology, the FlexiGrip function as well as different control modes for the fitting with one or two electrodes.

13E184=* Coding Plugs of various colours or the 757T13 MyoSelect are used to select the desired control mode. Please also note the table in the user manual for this.

13E184=1 (white: DMC plus control)
13E184=2 (red: AutoControl LowInput control)
13E184=3 (green: AutoControl)
13E184=4 (blue: VarioControl)
13E184=5 (yellow: VarioDual Control)
13E184=6 (violet: DMC plus Control; SUVA sensors and FlexiGrip can be switched off)

The SensorHand Speed can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

It features a central cable outlet with automatic shut-off electronics and integrated on-off switch, low friction bevel gear, positive back lock, and System Inner Hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

646D165 647H495

Article number	Side	Size	Inner hand
8E41=8-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E41=8-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E41=8-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E41=8-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E41=8-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E41=8-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

Technical Data

Reference Number	8E41=8	8E41=8	8E41=8
Size	7 1/4	7 3/4	8 1/4
Operating voltage	6/7.2 V	6/7.2 V	6/7.2 V
Opening width	100 mm	100 mm	100 mm
Proportional gripping force	0-100 N	0-100 N	0-100 N
Proportional speed	15-300 mm/sec	15-300 mm/sec	15-300 mm/sec
Weight with system inner hand	462 g	462 g	462 g
for	Women, Adolescents	Men	Men

- The electrode(s) must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

Control Modes for the SensorHand Speed

Program 1	OPEN	CLOSE	Indication
DMC plus Sensor White coding plug Two electrodes	Myo-signal to the electrode Proportional speed	Myo-signal to the electrode Proportional speed	Preferred program for amputees with two strong muscle signals

Program 2	OPEN	CLOSE	Indication
AutoControl LowInput Red coding plug Two electrodes	Myo-signal to the electrode Proportional speed	Myo-signal to the electrode digitally (short signal at any level) Constant speed	For amputees with two weak muscle signals
AutoControl LowInput Red coding plug One electrode & one optional Otto Bock Switch	Myo-signal to the electrode Proportional speed	Signal from the switch Constant speed	For amputees with only 1 muscle and weak muscle signal
AutoControl LowInput Red coding plug Any Otto Bock switch	Hand opens as long as opening side of the switch is activated Constant speed	Signal from closing side of switch: Hand closes Constant speed	For patients with too weak or no muscle signal

Program 3	OPEN	CLOSE	Indication
AutoControl Green coding plug One electrode	Quick, sustained myo-signal to the electrode Constant speed	Very slow muscle relaxation: Hand stays open: Quick muscle relaxation: Hand closes Constant speed	For amputees with only 1 muscle and very weak muscle signal
AutoControl Green coding plug Any Otto Bock switch	Hand opens as long as switch is activated Constant speed	Hand closes automatically as soon as switch is released Constant speed	For amputees with weak or no muscle signals

Program 4	OPEN	CLOSE	Indication
VarioControl Blue coding plug One electrode	Speed and strength of muscle tension to the electrode Proportional speed	Speed and strength of muscle relaxation to electrode Proportional speed	For amputees with 1 muscle and strong uscle signal or tendancy to co-contraction

Program 4	OPEN	CLOSE	Indication
VarioControl Blue coding plug One linear transducer	Speed and strength of pull to linear transducer Proportional speed	Speed of release of the linear transducer Proportional speed	For amputees with weak or no muscle signal

Program 5	OPEN	CLOSE	Indication
VarioDual Yellow coding plug Two electrodes	Speed and strength of muscle tension to first electrode Proportional speed	Speed and strength of muscle relaxation to first electrode Proportional speed. Grip force proportional to strength of muscle signal to second electrode.	Control for amputees with 2 strong muscle signals

Program 6	OPEN	CLOSE	Indication
DMC plus Sensor Purple coding plug Two electrodes	Myo-signal to electrode Proportional speed	Myo-signal to electrode Proportional speed	Program for amputees with 2 strong muscle signals SUVA Sensor and FlexiGrip can be switched off.

8E38=9 MyoHand VariPlus Speed

With quick-disconnect wrist

The MyoHand VariPlus Speed is a new 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 strength (approx. 100 N) and speed (up to 300 mm/s), objects can be gripped quickly and precisely. With the 757T13 MyoSelect, a total of 6 different programmes can be selected and adapted according to patient indications. This permits optimum adaptation to the needs and abilities of the prosthesis wearer.

The following control modes can be selected with the 757T13 MyoSelect:

DMC plus
AutoControl LowInput
VarioControl
VarioDual
DigitalControl
DoubleChannel Control

The MyoHand VariPlus Speed can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

With central coaxial plug connection, automatic shut-off electronics and integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

Article number	Side	Size	Inner hand	For
8E38=9-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4	Women, Adolescent
8E38=9-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4	Men
8E38=9-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4	Men
8E38=9-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4	Women, Adolescent
8E38=9-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4	Men
8E38=9-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4	Men

Technical Data

Reference Number	8E38=9	8E38=9	8E38=9
Size	7 1/4	7 3/4	8 1/4
Static current	1 mA	1 mA	1 mA
Operating temperature	0 bis +70 °C	0 bis +70 °C	0 bis +70 °C
Opening width	100 mm	100 mm	100 mm
Proportional gripping force	0 - 100 N	0 - 100 N	0 - 100 N
Proportional speed	15 - 300 mm/sec	15 - 300 mm/sec	15 - 300 mm/sec
Weight with system inner hand	460 g	125 g, 460 g	460 g

- The electrode(s) must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

646D165 647G504

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8E39=9 MyoHand VariPlus Speed

With lamination ring

The MyoHand VariPlus Speed is a new 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 strength (approx. 100 N) and speed (up to 300 mm/s), objects can be gripped quickly and precisely. With the 757T13 MyoSelect, a total of 6 different programmes can be selected and adapted according to patient indications. This permits optimum adaptation to the needs and abilities of the prosthesis wearer.

The following control modes can be selected with the 757T13 MyoSelect:

DMC plus
AutoControl LowInput
VarioControl
VarioDual
DigitalControl
DoubleChannel Control

The MyoHand VariPlus Speed can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

It features a central flat cable, automatic shut-off electronics and integrated on-off switch, low friction bevel gear, positive back lock, and System Inner Hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

Article number	Side	Size	Inner hand	For
8E39=9-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4	Women, Adolescent
8E39=9-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4	Men
8E39=9-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4	Men
8E39=9-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4	Women, Adolescent
8E39=9-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4	Men
8E39=9-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4	Men

Technical Data

Reference Number	8E39=9	8E39=9	8E39=9
Size	7 1/4	7 3/4	8 1/4
Static current	1 mA	1 mA	1 mA
Operating temperature	0 bis +70 °C	0 bis +70 °C	0 bis +70 °C
Opening width	100 mm	100 mm	100 mm
Proportional gripping force	0 - 100 N	0 - 100 N	0 - 100 N
Proportional speed	15 - 300 mm/sec	15 - 300 mm/sec	15 - 300 mm/sec
Weight with system inner hand	460 g	460 g	460 g

- The electrode(s) must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

8E41=9 MyoHand VariPlus Speed

With threaded stud M12x1.5

The MyoHand VariPlus Speed is a new 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 strength (approx. 100 N) and speed (up to 300 mm/s), objects can be gripped quickly and precisely. With the 757T13 MyoSelect, a total of 6 different programmes can be selected and adapted according to patient indications. This permits optimum adaptation to the needs and abilities of the prosthesis wearer.

The following control modes can be selected with the 757T13 MyoSelect:

DMC plus
AutoControl LowInput
VarioControl
VarioDual
DigitalControl
DoubleChannel Control

The MyoHand VariPlus Speed can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

It features a central cable outlet with automatic shut-off electronics and integrated on-off switch, low friction bevel gear, positive back lock, and System Inner Hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

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Article number	Side	Size	Inner hand	For
8E41=9-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4	Women, Adolescent
8E41=9-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4	Men
8E41=9-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4	Men
8E41=9-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4	Women, Adolescent
8E41=9-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4	Men
8E41=9-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4	Men

Technical Data

Reference Number	8E41=9	8E41=9	8E41=9
Size	7 1/4	7 3/4	8 1/4
Static current	1 mA	1 mA	1 mA
Operating temperature	0 bis +70 °C	0 bis +70 °C	0 bis +70 °C
Opening width	100 mm	100 mm	100 mm
Proportional gripping force	0 - 100 N	0 - 100 N	0 - 100 N
Proportional speed	15 - 300 mm/sec	15 - 300 mm/sec	15 - 300 mm/sec
Weight with system inner hand	460 g	460 g	460 g

- The electrode(s) must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

Control Modes for the MyoHand VariPlus Speed®

Control mode 1: DMC plus®
Control with 2 electrodes

Control mode 1	OPEN	CLOSE	Indication
DMC plus®	Sustained electrode signal **Speed:** proportional Adjustment regulator A	Sustained electrode signal **Grip 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

Control mode 2: AutoControl – Low Input
Control with 2 electrodes

Control mode 2	OPEN	CLOSE	Indication
AutoControl LowInput	Sustained electrode signal Reduced range of proportionality: Maximum speed once the LOW-threshold has been reached **Speed:** proportional Adjustment regulator A	Sustained electrode signal **Grip 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 amputees with two weak electrode signals

Control with 1 electrode and 1 switch

Control mode 2	OPEN	CLOSE	Indication
AutoControl LowInput	Sustained electrode signal Reduced range of proportionality: Maximum speed once the LOW-threshold has been reached **Speed:** proportional Adjustment regulator A	Signal from the switch **Grip 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 amputees with only one muscle and weak electrode signal

Control with 1 switch

Control mode 2	OPEN	CLOSE	Indication
AutoControl LowInput	MyoHand VariPlus Speed® opens as long as the OPEN-side of the switch is operated. **Speed:** constant Adjustment regulator A	MyoHand VariPlus Speed® closes as long as the CLOSE-side of the switch is operated. **Grip force:** Time proportional **Speed:** constant Adjustment regulator B	For amputees with weak or no electrode signal

Control mode 3: VarioControl
Control with 1 electrode

Control mode 3	OPEN	CLOSE	Indication
VarioControl	Increasing electrode signal through muscle contraction Speed and strength of muscle contraction to the electrode **Speed:** proportional Adjustment regulator A	Declining electrode signal through muscle relaxation **Grip force:** Proportional to the decline of the electrode signal 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 amputees with one strong electrode signal or tendancy to co-contraction

Control with 1 linear transducer

Control mode 3	OPEN	CLOSE	Indication
VarioControl	Speed and strength of pull on the linear transducer **Speed:** proportional Adjustment regulator A	Speed of release of pull on the linear transducer **Grip force:** Proportional to the release of the pull on the linear transducer 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 amputees with weak or no electrode signal

Control mode 4: VarioDual
Control with 2 electrodes

Control mode 4	OPEN	CLOSE	Indication
VarioDual	Increasing electrode signal through muscle contraction to the first electrode Speed and strength of muscle contraction to the electrode **Speed:** Proportional to the increase of the electrode signal Adjustment regulator A	Declining electrode signal through muscle relaxation to the first electrode or: Sustained electrode signal to the second electrode **Grip force:** Proportional to the signal strength to the second electrode. If only the first electrode is used, the MyoHand VariPlus Speed® closes up to the minimal grip force. **Grip force increase:** By another, stronger electrode signal to 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 to the first electrode / proportional to the signal strength to the second electrode Adjustment regulator A	For amputees with two strong electrode signals

Control mode 5: Digital Control

Control with 2 electrodes

Control mode 5	OPEN	CLOSE	Indication
Digital Control	Sustained electrode signal Adjustment regulator B	Sustained electrode signal **Grip force**: Duration of the signal Adjustment regulator B	For amputees with two weak electrode signals

Control with 1 electrode and 1 switch

Control mode 5	OPEN	CLOSE	Indication
Digital Control	Sustained electrode signal Adjustment regulator B	Signal from the switch **Grip force**: Duration of the signal Adjustment regulator B	For amputees with only one muscle and weak electrode signal

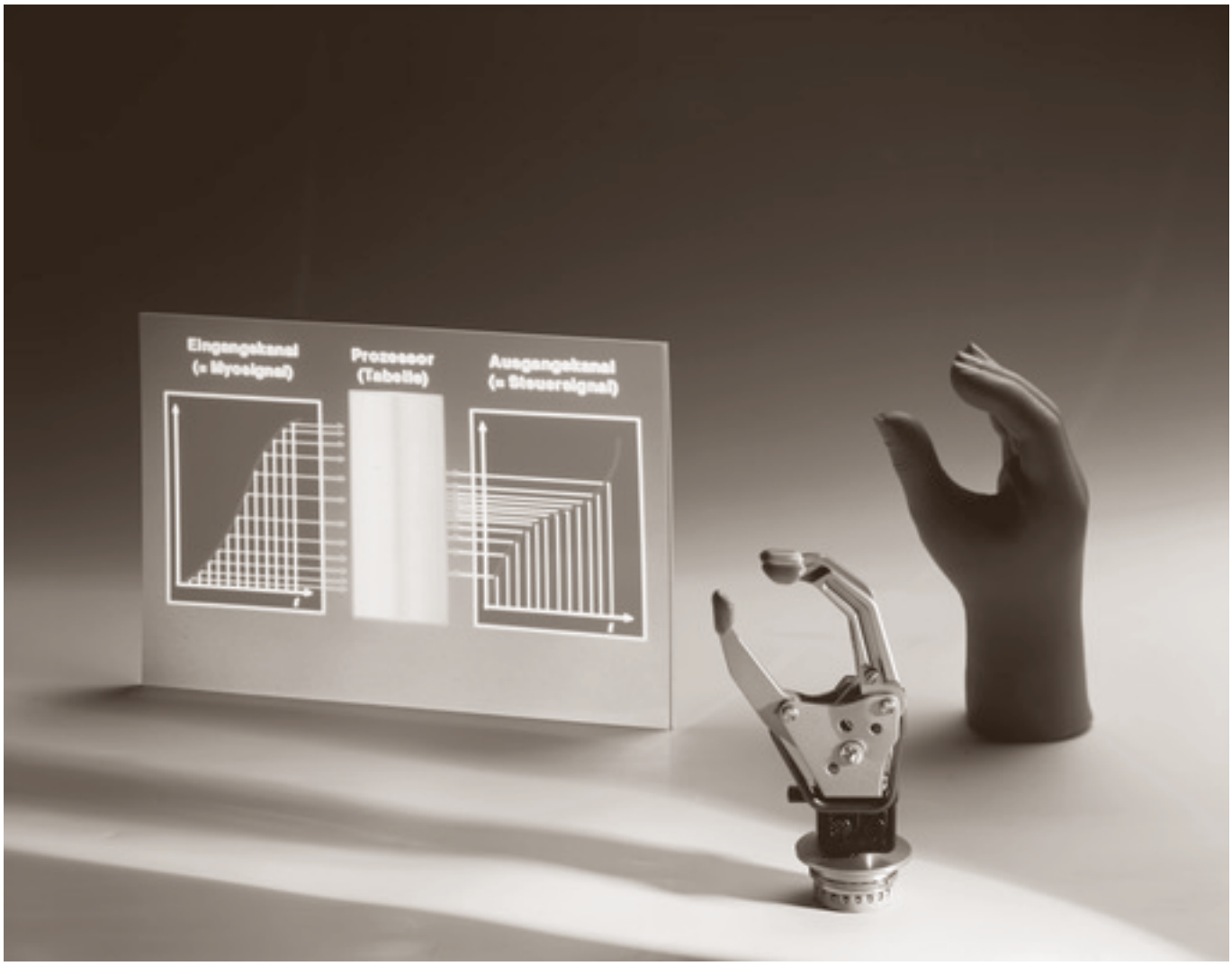
Control with 1 switch

Control mode 5	OPEN	CLOSE	Indication
Digital Control	MyoHand VariPlus Speed® opens as long as the OPEN-side of the switch is operated. Adjustment regulator B	MyoHand VariPlus Speed® closes as long as the CLOSE-side of the switch is operated. **Grip force**: Duration of the signal Adjustment regulator B	For amputees with weak or no electrode signals

Control mode 6: Double Channel Control

Control with 1 electrode

Control mode 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 **Grip force**: Duration of the signal Adjustment regulator B	For amputees with one strong electrode signal



System Electric Hand DMC plus

Myoelectrically-controlled arm prostheses are more powerful thanks to **microcontroller technology**.
In the **D**ynamic **M**ode **C**ontrol plus, **two independent measurement and regulating systems** proportionally control gripping speed and force at all opening widths.
Gripping speed and gripping force are determined by the strength of the muscle signal.
As soon as the strength of the muscle signal changes, gripping speed and gripping force immediately adapt to the new muscle signal.

The gripping speed is variable from 15 to 130 mm/sec. The high maximum gripping speed, the quickly learned system and the optimal balance of gripping force and speed make it possible for the patient to experience **directly controlled, physiological gripping**. The DMC plus control features both the well-known DMC control and the DMC plus mode. The new DMC plus mode also includes an integrated virtual "hand switch": after gripping once with maximum, a slightly higher signal is required to open the hand again. This improves gripping security and, for example, makes eating easier.
The DMC plus mode is easily activated by removing the function plug integrated in the electronics.

8E38=6 System Electric Hand DMC plus

With quick-disconnect wrist

Suitable for all amputation levels, except wrist disarticulation.
Passive wrist rotation with ratchet lock (can be replaced by the 11S30 Friction Ring).
The DMC plus control features a DMC and DMC plus control mode. The desired control mode is selected with the integrated 13E185 Function Plug. In DMC plus control mode, after gripping once with maximum grip force, a higher signal is required to open the hand. This reduces the risk of opening the hand with undesired muscle signals. In this system, two independent measurement and control systems proportionally control gripping speed as well as gripping force. Gripping speed and gripping force are determined by the strength of the muscle signal. The System Electric Hand DMC plus can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

It features a central coaxial plug connection, automatic shut-off electronics and integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

Article number	Side	Size	Inner hand
8E38=6-L7	Left (L)	7	8X18=L7
8E38=6-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E38=6-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E38=6-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E38=6-R7	Right (R)	7	8X18=R7
8E38=6-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E38=6-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E38=6-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

Technical Data

Reference Number	8E38=6	8E38=6
Size	7	7 1/4, 7 3/4, 8 1/4
Operating voltage	6/7.2 V	6/7.2 V
Opening width	79 mm	100 mm
Proportional gripping force	0-90 N	0-90 N
Proportional speed	15-130 mm/sec	15-130 mm/sec
Weight with system inner hand	355 g	457 g
for	Women, Adolescents	Women, Adolescents, Men

- The electrodes must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

646D44 647H326

Particularly short and light: the new Electric Hand size 7.

It 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.

The new Electric Hand size 7 is offered with the well-known Digital Twin and DMC plus control systems.

646D44 647H326

8E39=6 System Electric Hand DMC plus

With lamination ring

Suitable for wrist disarticulation.
Passive wrist rotation with friction.
The DMC plus control features a DMC and DMC plus control mode. The desired control mode is selected with the integrated 13E185 Function Plug. In DMC plus control mode, after gripping once with maximum grip force, a higher signal is required to open the hand. This reduces the risk of opening the hand with undesired muscle signals. In this system, two independent measurement and control systems proportionally control gripping speed as well as gripping force. Gripping speed and gripping force are determined by the strength of the muscle signal. The System Electric Hand DMC plus can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

It features a central flat cable, automatic shut-off electronics and integrated on-off switch, low friction bevel gear, positive back lock, and System Inner Hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

Article number	Side	Size	Inner hand
8E39=6-L7	Left (L)	7	8X18=L7
8E39=6-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E39=6-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E39=6-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E39=6-R7	Right (R)	7	8X18=R7
8E39=6-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E39=6-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E39=6-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

Technical Data

Reference Number	8E39=6	8E39=6
Size	7	7 1/4, 7 3/4, 8 1/4
Operating voltage	6/7.2 V	6/7.2 V
Opening width	79 mm	100 mm
Proportional gripping force	0-90 N	0-90 N
Proportional speed	15-130 mm/sec	15-130 mm/sec
Weight with system inner hand	355 g	457 g
for	Women, Adolescents	Women, Adolescents, Men

- The electrodes must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

Particularly short and light: the new Electric Hand size 7.

It 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.

The new Electric Hand size 7 is offered with the well-known Digital Twin and DMC plus control systems.

8E41=6 System Electric Hand DMC plus

With threaded stud M12x1.5

Suitable for all amputation levels, except wrist disarticulation.
The DMC plus control features a DMC and DMC plus control mode. The desired control mode is selected with the integrated 13E185 Function Plug. In DMC plus control mode, after gripping once with maximum grip force, a higher signal is required to open the hand. This reduces the risk of opening the hand with undesired muscle signals. In this system, two independent measurement and control systems proportionally control gripping speed as well as gripping force. Gripping speed and gripping force are determined by the strength of the muscle signal. The System Electric Hand DMC plus can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

It features a central cable outlet with automatic shut-off electronics and integrated on-off switch, low friction bevel gear, positive back lock, and System Inner Hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

Article number	Side	Size	Inner hand
8E41=6-L7	Left (L)	7	8X18=L7
8E41=6-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E41=6-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E41=6-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E41=6-R7	Right (R)	7	8X18=R7
8E41=6-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E41=6-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E41=6-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

646D44 647H326

Technical Data

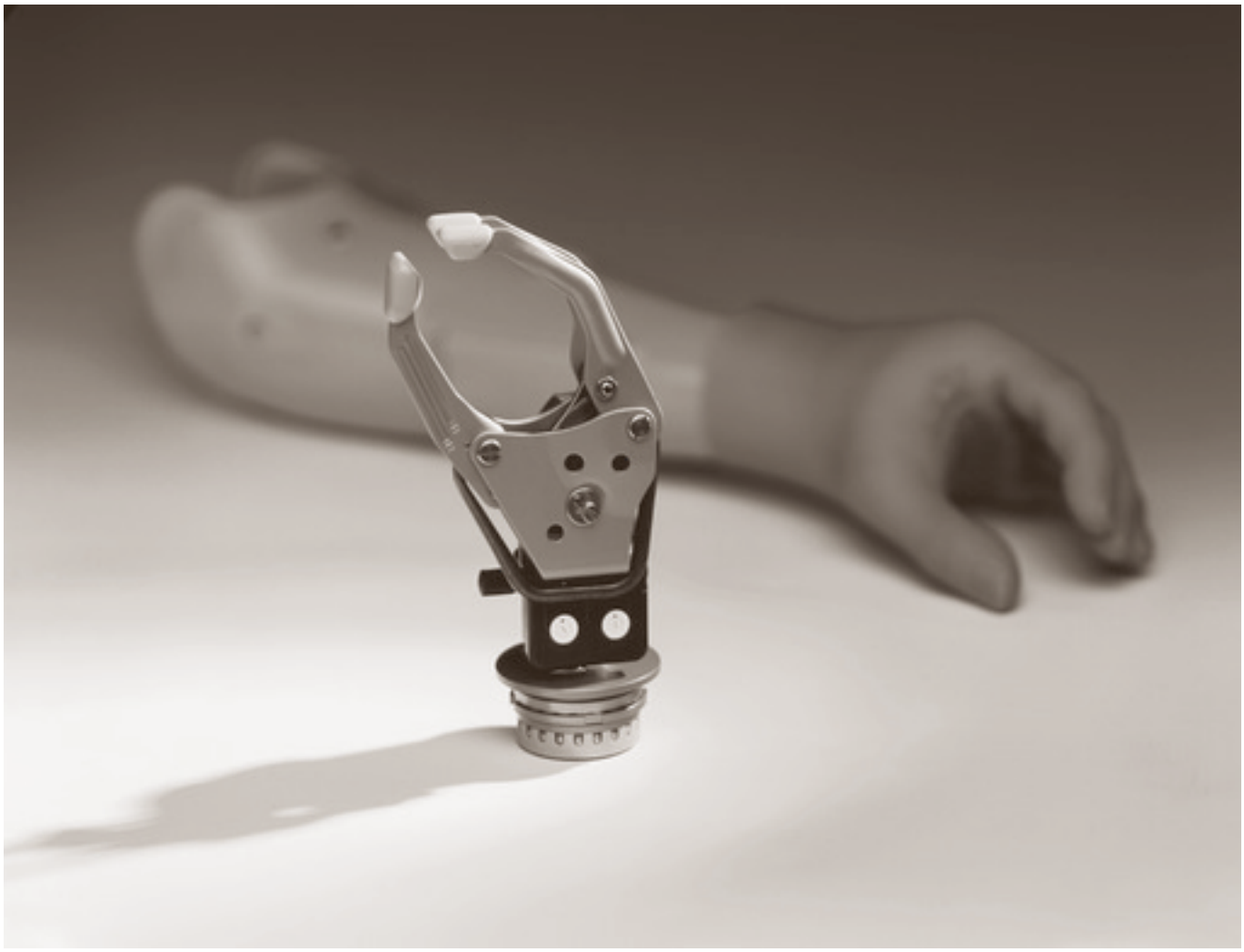
Reference Number	8E41=6	8E41=6
Size	7	7 1/4, 7 3/4, 8 1/4
Operating voltage	6/7.2 V	6/7.2 V
Opening width	100 mm	100 mm
Proportional gripping force	0-90 N	0-90 N
Proportional speed	15-130 mm/sec	15-130 mm/sec
Weight with system inner hand	355 g	457 g
for	Women, Adolescents	Women, Adolescents, Men

- The electrodes must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

Particularly short and light: the new Electric Hand size 7.

It 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.

The new Electric Hand size 7 is offered with the well-known Digital Twin and DMC plus control systems.



System Electric Hand Digital Twin

The System Electric Hand Digital Twin combines both the classic digital control and double-channel control in a single hand.

The orthopaedic technician decides whether one or two electrodes will be used to control the prosthesis. The desired control mode is selected with the integrated function plug. This way the orthopaedic technician may decide during trial fitting which control mode is best for the patient.

The System Electric Hand Digital Twin can be operated with various interchangeable battery technologies.

8E38=7 System Electric Hand Digital Twin

With quick-disconnect wrist

Suitable for all amputation levels, except wrist disarticulation.
Passive wrist rotation with ratchet lock (can be replaced by the 11S30 Friction Ring). The Digital Twin control features a digital and dual channel control mode. The desired control mode is selected with the integrated 13E185 function plug. The System Electric Hand Digital Twin can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

It features a central coaxial plug connection, automatic shut-off electronics and 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 allows the hand to be opened in case of power supply or myoelectric control failure.

Article number	Side	Size	Inner hand
8E38=7-L7	Left (L)	7	8X18=L7
8E38=7-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E38=7-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E38=7-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E38=7-R7	Right (R)	7	8X18=R7
8E38=7-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E38=7-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E38=7-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

Technical Data

Reference Number	8E38=7	8E38=7
Size	7	7 1/4, 7 3/4, 8 1/4
Operating voltage	6/7.2 V	6/7.2 V
Opening width	79 mm	100 mm
Approx. maximum gripping strength.	90 N	90 N
Average speed	110 mm/sec	110 mm/sec
Weight with system inner hand	355 g	457 g
for	Women, Adolescents	Women, Adolescents, Men

- The electrodes must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

646D44 647H327

Particularly short and light: the new Electric Hand size 7

It 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.

The Electric Hand size 7 is offered with the well-known Digital Twin and DMC plus control systems.

646D44 647H327

8E39=7 System Electric Hand Digital Twin

With lamination ring

Suitable for wrist disarticulation. Passive wrist rotation with friction.
The Digital Twin control features a digital and dual channel control mode. The desired control mode is selected with the integrated 13E185 function plug. The System Electric Hand Digital Twin can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

It features a centrally guided flat cable with automatic shut-off electronics and 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 allows the hand to be opened in case of power supply or myoelectric control failure.

Article number	Side	Size	Inner hand
8E39=7-L7	Left (L)	7	8X18=L7
8E39=7-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E39=7-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E39=7-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E39=7-R7	Right (R)	7	8X18=R7
8E39=7-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E39=7-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E39=7-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

Technical Data

Reference Number	8E39=7	8E39=7
Size	7	7 1/4, 7 3/4, 8 1/4
Operating voltage	6/7.2 V	6/7.2 V
Opening width	79 mm	100 mm
Approx. maximum gripping strength.	90 N	90 N
Average speed	110 mm/sec	110 mm/sec
Weight with system inner hand	355 g	457 g
for	Women, Adolescents	Women, Adolescents, Men

- The electrodes must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

Particularly short and light: the new Electric Hand size 7

It 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.

The Electric Hand size 7 is offered with the well-known Digital Twin and DMC plus control systems.

8E41=7 System Electric Hand Digital Twin

With threaded stud M12x1.5

Suitable for all amputation levels, except wrist disarticulation.
The Digital Twin control features a digital and dual channel control mode. The desired control mode is selected with the integrated 13E185 function plug. The System Electric Hand Digital Twin can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

It features a central cable outlet with automatic battery-saving circuit and 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 allows the hand to be opened in case of power supply or myoelectric control failure.

646D44 647H327

Article number	Side	Size	Inner hand
8E41=7-L7	Left (L)	7	8X18=L7
8E41=7-L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E41=7-L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E41=7-L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E41=7-R7	Right (R)	7	8X18=R7
8E41=7-R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E41=7-R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E41=7-R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

Technical Data

Reference Number	8E41=7	8E41=7
Size	7	7 1/4, 7 3/4, 8 1/4
Operating voltage	6/7.2 V	6/7.2 V
Opening width	79 mm	100 mm
Approx. maximum gripping strength.	90 N	90 N
Average speed	110 mm/sec	110 mm/sec
Weight with system inner hand	355 g	457 g
for	Women, Adolescents	Women, Adolescents, Men

- The electrodes must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

Particularly short and light: the new Electric Hand size 7

It 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.

The Electric Hand size 7 is offered with the well-known Digital Twin and DMC plus control systems.

Transcarpal Hand

For the first time, many patients who in the past could only be fitted with cosmetic prostheses due to their residual limb length can now benefit from the functional advantages of a System Electric Hand thanks to the new Transcarpal Hand.

Short: Many of the components in the Transcarpal Hand have been redesigned to make it especially compact: - 37 mm in comparison with the 8E39 Hands, which up to now had been the shortest ones, and - 49 mm in comparison with the 8E38 Hands. The new anchoring technique, which replaces the normal lamination ring and a newly developed drive unit, are particularly helpful in saving space.

Lightweight: Furthermore, the Transcarpal Hand is approximately 150 g lighter (= – 30%) than comparable hand types for wrist disarticulations.

The Transcarpal Hand is available with **DMC plus**® control or **Digital Twin**® control variants.

Due to the special anchoring technique used, it is essential that the patient is able to actively pronate and supinate the hand. Passive or electromotive pronation and supination are not possible with the Transcarpal Hand.

The Transcarpal Hand makes active gripping possible for many patients with very low amputation levels.

8E44=6 Transcarpal-Hand DMC plus

With lamination plate

For residual limb lengths from wrist disarticulation to transcarpal levels. Without wrist rotation, which means that active pronation and supination are absolutely required. (Fine adjustment of the basic position is possible, however, only after the socket has been completed.)
The DMC plus control features a DMC and DMC plus control mode. In DMC plus control mode, after gripping once with maximum grip force, a higher signal is required to open the hand. This reduces the risk of opening the hand with undesired muscle signals. The desired control mode is selected with the integrated 13E185 Function Plug. 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 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.
It features a centrally guided flat cable, automatic shut-off electronics and integrated on-off switch, low-friction bevel gear, positive back lock and system inner hand. An integrated slip clutch allows the hand to be opened in case of power supply or myoelectric control failure.

646D44 647H398

Article number	Side	Size	Inner hand	For
8E44=6-L7 1/4	Left (L)	7 1/4	8X24=L7 1/4 mm	Women, Adolescent
8E44=6-L7 3/4	Left (L)	7 3/4	8X24=L7 3/4	Men
8E44=6-L8 1/4	Left (L)	8 1/4	8X24=L8 1/4	Men
8E44=6-R7 1/4	Right (R)	7 1/4	8X24=R7 1/4	Women, Adolescent
8E44=6-R7 3/4	Right (R)	7 3/4	8X24=R7 3/4	Men
8E44=6-R8 1/4	Right (R)	8 1/4	8X24=R8 1/4	Men

Technical Data

Reference Number	8E44=6	8E44=6	8E44=6
Size	7 1/4	7 3/4	8 1/4
Operating voltage	6/7,2 V	6/7,2 V	6/7,2 V
Operating temperature	0 bis +70 °C	0 bis +70 °C	0 bis +70 °C
Opening width	100 mm	100 mm	100 mm
Proportional gripping force	0 - 90 N	0 - 90 N	0 - 90 N
Proportional speed	15 - 130 mm/sec	15 - 130 mm/sec	15 - 130 mm/sec
Weight with system inner hand	308 g	308 g	308 g

- The electrodes must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

646D44 647H398

8E44=7 Transcarpal-Hand Digital Twin

With lamination plate

For residual limb lengths from wrist disarticulation to transcarpal levels.
Without wrist rotation, which means that active pronation and supination are absolutely required. (Fine adjustment of the basic position is possible, however, only after the socket has been completed.)
The Digital Twin control features a digital and dual channel control mode. The desired control mode is selected with the integrated 13E185 function plug. The Transcarpal-Hand Digital Twin can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.
It features a centrally guided flat cable, automatic shut-off electronics and 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 allows the hand to be opened in case of power supply or myoelectric control failure.

Article number	Side	Size	Inner hand	For
8E44=7-L7 1/4	Left (L)	7 1/4	8X24=L7 1/4	Women, Adolescent
8E44=7-L7 3/4	Left (L)	7 3/4	8X24=L7 3/4	Men
8E44=7-L8 1/4	Left (L)	8 1/4	8X24=L8 1/4	Men
8E44=7-R7 1/4	Right (R)	7 1/4	8X24=R7 1/4	Women, Adolescent
8E44=7-R7 3/4	Right (R)	7 3/4	8X24=R7 3/4	Men
8E44=7-R8 1/4	Right (R)	8 1/4	8X24=R8 1/4	Men

Technical Data

Reference Number	8E44=7	8E44=7	8E44=7
Size	7 1/4	7 3/4	8 1/4
Operating voltage	6/7,2 V	6/7,2 V	6/7,2 V
Operating temperature	0 bis +70 °C	0 bis +70 °C	0 bis +70 °C
Opening width	100 mm	100 mm	100 mm
Approx. maximum gripping strength.	90 N	90 N	90 N
Average speed	110 mm/sec	110 mm/sec	110 mm/sec
Weight with system inner hand	308 g	308 g	308 g

- The electrodes must be adjusted with the 757M11 MyoBoy!
- For the suitable system prosthetic glove, see pages 77-80

8E12 System Electric Hand for other systems

For switch control or other manufacturer's systems, 6 Volt, with M12x1.5 threaded stud

Suitable for all amputation levels, except wrist disarticulation.
It features a central cable outlet and on-off switch, positive back lock and System Inner Hand.
Without electronic control.

Article number	Side	Size	Inner hand
8E12=L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E12=L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E12=L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E12=R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E12=R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E12=R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

647G133

Technical Data

Reference Number	8E12	8E12	8E12
Size	7 1/4	7 3/4	8 1/4
Operating voltage	6 V	6 V	6 V
Approx. average current consumption	200 mA	200 mA	200 mA
Approx. max current	800 mA	800 mA	800 mA
Opening width	100 mm	100 mm	100 mm
Approx. maximum gripping strength.	90 N	90 N	90 N
Average speed	110 mm/sec	110 mm/sec	110 mm/sec
Weight with system inner hand	460 g	460 g	460 g
for	Women, Adolescents	Men	Men

- **Not suitable for operation with EnergyPack!**
- For the suitable system prosthetic glove, see pages 77-80

647G133

8E37 System Electric Hand for other systems

For other manufacturer's systems, 6 Volt, with Quick Disconnect Wrist

Suitable for all amputation levels, except wrist disarticulation.
With central coaxial plug connection, on-off switch, positive back lock and System Inner Hand.
Without electronic control.

Article number	Side	Size	Inner hand
8E37=L7 1/4	Left (L)	7 1/4	8X18=L7 1/4
8E37=L7 3/4	Left (L)	7 3/4	8X18=L7 3/4
8E37=L8 1/4	Left (L)	8 1/4	8X18=L8 1/4
8E37=R7 1/4	Right (R)	7 1/4	8X18=R7 1/4
8E37=R7 3/4	Right (R)	7 3/4	8X18=R7 3/4
8E37=R8 1/4	Right (R)	8 1/4	8X18=R8 1/4

Technical Data

Reference Number	8E37	8E37	8E37
Size	7 1/4	7 3/4	8 1/4
Operating voltage	6 V	6 V	6 V
Approx. average current consumption	200 mA	200 mA	200 mA
Approx. max current	800 mA	800 mA	800 mA
Opening width	100 mm	100 mm	100 mm
Approx. maximum gripping strength.	90 N	90 N	90 N
Average speed	110 mm/sec	110 mm/sec	110 mm/sec
Weight with system inner hand	420 g	420 g	420 g
for	Women, Adolescents	Men	Men

- **Not suitable for operation with EnergyPack!**
- Not suitable for Ottobock switch control.
- Specially adapted for other manufacturer's systems, such as INAIL, Utah.
- For the suitable system prosthetic glove, see pages 77-80

Spare parts for System Electric Hands

8X18 System Inner Hand

For Ottobock System Electric Hands in sizes 6 3/4, 7, 7 1/4, 7 3/4 and 8 1/4. Energy saving, lightweight plastic design, partially reinforced,
with wire inserts in the fingers and sealed retainer ring.

Article number	Side	Size	Retaining ring
8X18=L6 3/4	Left (L)	6 3/4	9S15=42
8X18=L7	Left (L)	7	9S15=48
8X18=L7 1/4	Left (L)	7 1/4	9S187=7 1/4
8X18=L7 3/4	Left (L)	7 3/4	9S187=7 3/4
8X18=L8 1/4	Left (L)	8 1/4	9S187=8 1/4
8X18=R6 3/4	Right (R)	6 3/4	9S15=42
8X18=R7	Right (R)	7	9S15=48
8X18=R7 1/4	Right (R)	7 1/4	9S187=7 1/4
8X18=R7 3/4	Right (R)	7 3/4	9S187=7 3/4
8X18=R8 1/4	Right (R)	8 1/4	9S187=8 1/4

For the suitable system prosthetic glove, see pages 77-80

9S187 Retaining ring, wide

Article number	For hand size
9S187=7 1/4	7 1/4
9S187=7 3/4	7 3/4
9S187=8 1/4	8 1/4

Technical Data

Article number	9S187=7 1/4	9S187=7 3/4	9S187=8 1/4
for	8X18 System Inner Hands	8X18 System Inner Hands	8X18 System Inner Hands

8X24 System Inner Hand

Article number	Side	Size
8X24=L7 1/4	Left (L)	7 1/4
8X24=L7 3/4	Left (L)	7 3/4
8X24=L8 1/4	Left (L)	8 1/4
8X24=R7 1/4	Right (R)	7 1/4
8X24=R7 3/4	Right (R)	7 3/4
8X24=R8 1/4	Right (R)	8 1/4

Technical Data

Article number	8X24= L7 1/4	8X24= L7 3/4	8X24= L8 1/4	8X24= R7 1/4	8X24= R7 3/4	8X24= R8 1/4
Size	7 1/4	7 3/4	8 1/4	7 1/4	7 3/4	8 1/4
for	Transcarpal Hand					

For the suitable system prosthetic glove, see pages 77-80

624Z12 Special Thread

For sealing the 8X24 Inner Hand from the Transcarpal Hand

Accessories for System Electric Hands

8Y1 Tweezers

743F1 Pinch Gauge

For testing the grip force of System Electric Hands

453A1 Derma Protection ArmComfort

Improves the transition from the below-elbow socket to the upper arm. The special polymer gel layer, the high elasticity and the anatomic shape increase wearing comfort.

Article number	453A1	453A1=S
for	Adults	Children

Electric Greifer System

The Otto Bock Electric Greifer System increases the number of potential applications of the MYOBOCK System for work and special tasks. The Electric Greifer has a flexion joint as well as a hand joint with passive pronation and supination.

Gripping surfaces may be individually adjusted by adjusting the finger tips.
The Electric Greifer is especially useful for heavy and manual labour, and where precise gripping is required.

Using a quick disconnect wrist, the Greifer can be quickly replaced with a System Electric Hand
> Large opening width
> Digital Twin Control
> DMC VariPlus Control
> Adjustable gripping tips
> Safety lever for releasing the hand
> Hand wheel allows manual operation
> Energy-saving

8E33=9 System Electric Greifer DMC VariPlus

With quick-disconnect wrist

Suitable for all amputation levels, except wrist disarticulation.
The System Electric Greifer DMC VariPlus is based on the Ottobock DMC system (DMC=Dynamic Mode Control): This system, which has been developed by Ottobock, uses two independent measurement and control systems in order to optimally control the grip speed and grip force in accordance with the patient's muscle signal.
6 different programs can be selected and adjusted using the 757T13 MyoSelect. They allow to optimally adapt the prosthesis to the amputee's individual abilities and requirements.
The System Electric Greifer DMC VariPlus can be operated with the 757B35=* MyoEnergy Integral, the 757B20 or 757B21 EnergyPack or the 757B15 X-ChangePack.

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 activities.

647H382

Technical Data

Article number	8E33=9
Weight	540 g
Operating voltage	6/7.2 V
Opening width	95 mm
Proportional gripping force	0-160 N
Proportional speed	8-200 mm/sec

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

8E34=9 System Electric Greifer DMC VariPlus

With lamination ring

Suitable for wrist disarticulation.
The System Electric Greifer DMC VariPlus is based on the Ottobock DMC system (DMC=Dynamic Mode Control): This system, which has been developed by Ottobock, uses two independent measurement and control systems in order to optimally control the grip speed and grip force in accordance with the patient's muscle signal.
6 different programs can be selected and adjusted using the 757T13 MyoSelect. They allow to optimally adapt the prosthesis to the amputee's individual abilities and requirements.
The System Electric Greifer DMC VariPlus can be operated with the 757B35=* MyoEnergy Integral, the 757B20 or 757B21 EnergyPack or the 757B15 X-ChangePack.

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 activities.

647H382

Technical Data

Article number	8E34=9
Weight	520 g
Operating voltage	6/7.2 V
Opening width	95 mm
Proportional gripping force	0-160 N
Proportional speed	8-200 mm/sec

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

Control Modes for the System Electric Greifer DMC VariPlus

Control mode 1: DMC plus®
Control with 2 electrodes

Control mode 1	OPEN	CLOSE	Indication
DMC plus®	Sustained electrode signal **Speed:** proportional 8 to 200 mm/s	Sustained electrode signal **Grip force:** proportional After gripping once with maximum force, the electrode signal required to open the Greifer will be set to a higher value. Opening the Greifer with unwanted electrode signals is prevented. **Speed:** proportional 8 to 200 mm/s	For patients with two strong electrode signals

Control mode 2: AutoControl – Low Input
Control with 2 electrodes

Control mode 2	OPEN	CLOSE	Indication
AutoControl-Low Input	Sustained electrode signal Reduced range of proportionality: Maximum speed once the LOW-threshold has been reached **Speed:** proportional 8 to 200 mm/s	Sustained electrode signal **Grip force:** Time proportional After gripping once with maximum force, the electrode signal required to open the Greifer will be set to a higher value. Opening the Greifer with unwanted electrode signals is prevented. **Speed:** constant 200 mm/s	For amputees with two weak electrode signals

Control with 1 electrode and 1 switch

Control mode 2	OPEN	CLOSE	Indication
AutoControl-Low Input	Sustained electrode signal Reduced range of proportionality: Maximum speed once the LOW-threshold has been reached **Speed:** proportional 8 to 200 mm/s	Signal from the switch **Grip force:** Time proportional After gripping once with maximum force, the electrode signal required to open the Greifer will be set to a higher value. Opening the Greifer with unwanted electrode signals is prevented. **Speed:** constant 200 mm/s	For amputees with only one muscle and weak electrode signal

Control with 1 switch

Control mode 2	OPEN	CLOSE	Indication
AutoControl-Low Input	Greifer opens as long as the OPEN-side of the switch is operated. **Speed:** constant 200 mm/s	Greifer closes as long as the CLOSE-side of the switch is operated. **Grip force:** Time proportional **Speed:** constant 200 mm/s	For amputees with weak or no electrode signal

Control mode 3: VarioControl
Control with 1 electrode

Control mode 3	OPEN	CLOSE	Indication
VarioControl	Increasing electrode signal through muscle contraction Speed and strength of muscle contraction to the electrode **Speed:** proportional 8 to 200 mm/s	Declining electrode signal through muscle relaxation **Grip force:** Proportional to the decline of the electrode signal After gripping once with maximum force, the electrode signal required to open the Greifer will be set to a higher value. Opening the Greifer with unwanted electrode signals is prevented. **Speed:** proportional 8 to 200 mm/s	For amputees with one strong electrode signal or tendancy to co-contraction

Control with 1 linear transducer

Control mode 3	OPEN	CLOSE	Indication
VarioControl	Speed and strength of pull on the linear transducer **Speed:** proportional 8 to 200 mm/s	Speed of release of pull on the linear transducer **Grip force:** Proportional to the release of the pull on the linear transducer After gripping once with maximum force, the electrode signal required to open the Greifer will be set to a higher value. Opening the Greifer with unwanted electrode signals is prevented. **Speed:** proportional 8 to 200 mm/s	For amputees with weak or no electrode signal

Control mode 4: VarioDual

Control with 2 electrodes

Control mode 4	OPEN	CLOSE	Indication
VarioDual	Increasing electrode signal through muscle **contraction** to the first electrode Speed and strength of muscle tension to the electrode **Speed:** Proportional to the increase of the electrode signal 8 to 200 mm/s	Declining electrode signal through muscle relaxation to the first electrode **or:** Sustained electrode signal to the second electrode **Grip force:** Proportional to the signal strength to the second electrode. If only the first electrode is used, the Greifer closes up to the minimal grip force. **Grip force increase:** By another, stronger electrode signal to the second electrode. After gripping once with maximum force, the electrode signal required to open the Greifer will be set to a higher value. Opening the Greifer with unwanted electrode signals is prevented. **Speed:** Proportional to the decline of the electrode signal to the first electrode / proportional to the signal strength to the second electrode. 8 to 200 mm/s	For amputees with two strong electrode signals

Control mode 5: Digital Control

Control with 2 electrodes

Control mode 5	OPEN	CLOSE	Indication
Digital Control	Sustained electrode signal **Speed:** constant 200 mm/s	Sustained electrode signal **Grip force**: Duration of the signal **Speed:** constant 200 mm/s	For amputees with two weak electrode signals

Control with 1 electrode and 1 switch

Control mode 5	OPEN	CLOSE	Indication
Digital Control	Sustained electrode signal **Speed:** constant 200 mm/s	Signal from the switch **Grip force**: Duration of the signal **Speed:** constant 200 mm/s	For amputees with only one muscle and weak electrode signal

Control with 1 switch

Control mode 5	OPEN	CLOSE	Indication
Digital Control	Greifer opens as long as the OPEN-side of the switch is operated. **Speed:** constant 200 mm/s	Greifer closes as long as the CLOSE-side of the switch is operated. **Grip force**: Duration of the signal **Speed:** constant 200 mm/s	For amputees with weak or no electrode signals

Control mode 6: Double Channel Control

Control with 1 electrode

Control mode 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 **Speed:** constant 200 mm/s	Slow, gentle electrode signal that does not reach the upper threshold within 80 ms **Grip force**: Duration of the signal **Speed:** constant 200 mm/s	For amputees with one strong electrode signal

647H382

8E33=7 System Electric Greifer Digital Twin

With quick-disconnect wrist

Suitable for all amputation levels, except wrist disarticulation.
The Digital Twin control features a digital and dual channel control mode. The desired control mode is selected with the integrated 13E189 function plug. The Electric Greifer Digital Twin can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack. Passive wrist rotation with ratchet lock (can be replaced by the 11S30 Friction Ring).

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 activities. With two potentiometers to adjust the switching threshold.

Technical Data

Article number	8E33=7
Weight	540 g
Operating voltage	6/7.2 V
Opening width	95 mm
Approx gripping strength	160 N
Approx. gripping speed	180 mm/sec

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

647H382

8E34=7 System Electric Greifer Digital Twin

With lamination ring

Suitable for wrist disarticulation. Passive wrist rotation with friction.
The Digital Twin control features a digital and dual channel control mode. The desired control mode is selected with the integrated 13E189 function plug. The Electric Greifer Digital Twin can be operated with the 757B35=* MyoEnergy Integral, the 757B20/757B21 EnergyPack or the 757B15 X-ChangePack.

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 activities. With two potentiometers to adjust the switching threshold.

Technical Data

Article number	8E34=7
Weight	520 g
Operating voltage	6/7.2 V
Opening width	95 mm
Approx gripping strength	160 N
Approx. gripping speed	180 mm/sec

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

8E32=6 Electric Greifers for other manufacturer's systems

For other manufacturer's systems, 6 Volt, with Quick Disconnect Wrist

Suitable for all amputation levels, except wrist disarticulation.
Passive wrist rotation with ratchet lock (can be replaced with the 11S30 Friction Ring).
With central coaxial plug connection and on-off switch. Without electronic control. Metal finger tips and grip surfaces covered with rubber for normal gripping activities.

647G50

Technical Data

Article number	8E32=6
Weight	540 g
Operating voltage	6 V
Approx. average current consumption	200 mA
Approx. max current	700 mA
Opening width	95 mm
Approx gripping strength	140 N
Average speed	120 mm/sec

- Not suitable for operation with EnergyPack.
- Not suitable for Ottobock switch control.
- Specially adapted for other manufacturer's systems, such as INAIL, Utah.

Accessories for System Electric Greifer

9S138 Finger Tip Set

For use without tip padding,

Article number	9S138
Consists of:	Finger Tips (pair)|Finger Tip Blanks (pair) 501S54=M3,3x8 Oval Head Countersunk Screw (2 pieces)

9S145 Rubber Gripping Pad Set

Article number	9S145
Consists of:	9S146 Tip Padding (pair) 9S147=1PAA Rubber pad (pair) 9S147=2PAA Rubber pad (pair) 9S148 Padded Stirrup

9S149 Finger Tip Blank Set

For subsequent adaptation to special working needs,

Article number	9S149
Consists of:	Spacer (2 pieces)|Finger Tip Blanks (pair) 501S54=M3,3x8 Oval Head Countersunk Screw (2 pieces)

9S234=PAA Finger Tip (pair)

For use with tip padding,

Article number	9S234=PAA
with	501S54=M3,3x8 Oval Head Countersunk Screw (2 pieces)

9S278=PAA Finger Tip (pair)

For use without tip padding,

Article number	9S278=PAA
with	501S54=M3,3x8 Oval Head Countersunk Screw (2 pieces)

Myo Prosthetic Gloves

646D423 647G571

8S20N MyolinoSkin Natural

In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
To order them, please add an **N** before the =:
Example 8S20=136x41xL4 Standard glove
8S20**N**=136x41xL4 MyolinoSkin Natural
For available colours, please ask our customer service.

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

Article number	Side	Size	Sleeve length	Sleeve end circumference
8S20N=136x41L	Left (L)	5	210 mm	200 mm
8S20N=136x41R	Right (R)	5	210 mm	200 mm
8S20N=147x45L	Left (L)	5 1/2	215 mm	200 mm
8S20N=147x45R	Right (R)	5 1/2	215 mm	200 mm
8S20N=162x56L	Left (L)	6	220 mm	210 mm
8S20N=162x56R	Right (R)	6	220 mm	210 mm
8S20N=177x64L	Left (L)	6 1/2	240 mm	220 mm
8S20N=177x64R	Right (R)	6 1/2	240 mm	220 mm

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

For special cleaner for prosthetic gloves, see pages 81, 341

8S11N MyoSkin Natural

In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
To order them, please add an **N** before the =:
Example 8S11=210x78xL4 Standard glove
8S11**N**=210x78xL4 MyoSkin Natural
For available colours, please ask our customer service.

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

Article number	Side	Size	Inner hand	Sleeve length	Sleeve end circumference	Package
8S11N= 190x76L	Left (L)	7 1/4	8X18=L7 1/4 8X24=L7 1/4	300 mm	230 mm	Adolescents / Men
8S11N= 190x76R	Right (R)	7 1/4	8X18=R7 1/4 8X24=R7 1/4	300 mm	230 mm	Adolescents / Men
8S11N= 210x78L	Left (L)	7 3/4	8X18=L7 3/4 8X24=L7 3/4	320 mm	250 mm	Men
8S11N= 210x78R	Right (R)	7 3/4	8X18=R7 3/4 8X24=R7 3/4	320 mm	250 mm	Men
8S11N= 225x80L	Left (L)	8 1/4	8X18=L8 1/4 8X24=L8 1/4	350 mm	260 mm	Men
8S11N= 225x80R	Right (R)	8 1/4	8X18=R8 1/4 8X24=R8 1/4	350 mm	260 mm	Men

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

646D423 647G571

For special cleaner for prosthetic gloves, see pages 81, 341

646D423 647G571

8S12N MyoSkin Natural

In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
To order them, please add an **N** before the =:
Example 8S12=190x78xL4 Standard glove
8S12**N**=190x78xL4 MyoSkin Natural
For available colours, please ask our customer service.

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

Article number	Side	Size	Inner hand	Sleeve length	Sleeve end circumference	Package
8S12N= 190x78L	Left (L)	7 1/4	8X18=L7 1/4 8X24=L7 1/4	460 mm	250 mm	Women
8S12N= 190x78R	Right (R)	7 1/4	8X18=R7 1/4 8X24=R7 1/4	460 mm	250 mm	Women

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

For special cleaner for prosthetic gloves, see pages 81, 341

646D423 647G571

8S13N MyoSkin Natural

In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
To order them, please add an N before the =:
Example 8S13=7L4 Standard glove
8S13**N**=7L4 MyoSkin Natural
For available colours, please ask our customer service.

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

Article number	Side	Size	Inner hand	Sleeve length	Sleeve end circumference	Package
8S13N=7L	Left (L)	7	8X18=L8 1/4	280 mm	242 mm	Adolescents / Women
8S13=7R	Right (R)	7	8X18=R7	280 mm	242 mm	Adolescents / Women

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

For special cleaner for prosthetic gloves, see pages 81, 341

8S20 Prosthetic Glove for Children

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

Article number	Side	Size	Sleeve length	Sleeve end circumference
8S20=136X41L*	Left (L)	5	210 mm	200 mm
8S20=147X45L*	Left (L)	5 1/2	215 mm	200 mm
8S20=162X56L*	Left (L)	6	220 mm	210 mm
8S20=177x64L*	Left (L)	6 1/2	240 mm	220 mm
8S20=136X41R*	Right (R)	5	210 mm	200 mm
8S20=147X45R*	Right (R)	5 1/2	215 mm	200 mm
8S20=162X56R*	Right (R)	6	220 mm	210 mm
8S20=177X64R*	Right (R)	6 1/2	240 mm	220 mm

*Available in 18 different shades. When ordering, please add the colour code according to the 646M3 colour swatches to the end of the order number, e.g., **8S20=136x41L4**

For special cleaner for prosthetic gloves, see pages 81, 341

646D49 647G468

8S11 Prosthetic Glove for Adolescents and Men

The Ottobock prosthetic glove for adolescents and men impresses with its natural appearance, durability and flexibility.

Article number	Side	Size	Inner hand	Sleeve length	Sleeve end circumference	Package
8S11= 190X76L	Left (L)	7 1/4	8X18=L7 1/4 8X24=L7 1/4	300 mm	230 mm	Adolescents / Men
8S11= 190X76R	Right (R)	7 1/4	8X18=R7 1/4 8X24=R7 1/4	300 mm	230 mm	Adolescents / Men
8S11= 192X78L	Left (L)	7 1/4	8X18=L7 1/4 8X24=L7 1/4	440 mm	245 mm	Adolescents / Men
8S11= 192X78R	Right (R)	7 1/4	8X24=R7 1/4	440 mm	245 mm	Adolescents / Men
8S11= 210X78L	Left (L)	7 3/4	8X18=L7 3/4 8X24=R7 3/4	320 mm	250 mm	Men
8S11= 210X78R	Right (R)	7 3/4	8X18=R7 3/4 8X24=R7 3/4	320 mm	250 mm	Men
8S4= 220X80L	Left (L)	8	8X14=L8	225 mm	210 mm	Men
8S4= 220X80R	Right (R)	8	8X14=R8	225 mm	210 mm	Men
8S11= 225X80L	Left (L)	8 1/4	8X18=L8 1/4 8X24=L8 1/4	350 mm	260 mm	Men
8S11= 225X80R	Right (R)	8 1/4	8X24=R8 1/4	350 mm	260 mm	Men

*Available in 18 different shades. When ordering, please add the colour code according to the 646M3 colour swatches to the end of the order number, e.g., **8S11=190x76L4**

For special cleaner for prosthetic gloves, see pages 81, 341

646D49 647G468

646D49 647G468

8S12 Prosthetic Glove for Women

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

Article number	Side	Size	Inner hand	Sleeve length	Sleeve end circumference	Package
8S12= 190X78L	Left (L)	7 1/4	8X18=L7 1/4 8X24=L7 1/4	460 mm	250 mm	Women
8S12= 190X78R	Right (R)	7 1/4	8X18=R7 1/4 8X24=R7 1/4	460 mm	250 mm	Women

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

For special cleaner for prosthetic gloves, see pages 81, 341

646D49 647G468

8S13 Prosthetic Glove for Children and Adolescents

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

Article number	Side	Size	Inner hand	Sleeve length	Sleeve end circumference	Package
8S13=7L	Left (L)	7	8X18=L7	280 mm	242 mm	Adolescents / Women
8S13=7R	Right (R)	7	8X18=R7	280 mm	242 mm	Adolescents / Women

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

For special cleaner for prosthetic gloves, see pages 81, 341

Accessories for Myo Prosthetic Gloves

633S2 Procomfort Gel

Acts as a lubricant to aid in donning the prosthetic glove over the inner hand.

Article number	Net contents
633S2	250 ml

640F12 Special Cleaner

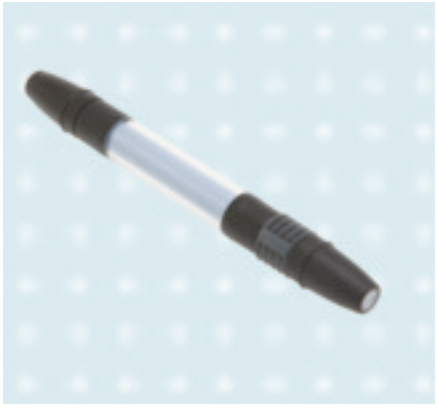
Technical Data

Article number	640F12
for	prosthetic gloves

635P15 Colouring Pen

Refillable, for colouring prosthetic gloves

Article number	Colour
635P15=2	red
635P15=5	blue




ROCK'N
ROLL
REVIVAL

Myo Flexion

Wrist Units

10V51 MyolinoWrist 2000

The 2000 10V51=* MyolinoWrist is a mechanical ball wrist unit with adjustable friction. When combined with the Electric Hand 2000 8E51, the hand can be positioned in any direction, helping to significantly eliminate unnatural compensation with the arm. This additional freedom provides more natural movements, whilst at the same time, the wrist unit promotes physiologically correct posture.

Article number	Wrist connection Ø
10V51=1	40 mm
10V51=2	40 mm

Technical Data

Article number	10V51=1	10V51=2
Weight	47 g	50 g
Overall length	32 mm	40 mm

647G460

10V38 MyoWrist Transcarpal

Enables flexion and extension of a myoelectrically controlled 8E44 Transcarpal Hand. Can be locked in 5 positions from −40° to +40°. Passive pronation and supination is possible thanks to the quick-disconnect wrist. In combination with the optional 10S17 Electric Wrist Rotator, electromotive pronation and supination can be offered.

Article number	Side
10V38=L7 1/4	Left (L)
10V38=L7 3/4	Left (L)
10V38=L8 1/4	Left (L)
10V38=R7 1/4	Right (R)
10V38=R7 3/4	Right (R)
10V38=R8 1/4	Right (R)

Technical Data

Reference Number	10V38
Outer Ø	36 mm
Weight	85 – 89 g
Overall length	24.7 mm
for	8E44=6-L7 1/4 bzw. 8E44=7-L7 1/4, 8E44=6-L7 3/4 bzw. 8E44=7-L7 3/4, 8E44=6-L8 1/4 bzw. 8E44=7-L8 1/4, 8E44=6-R7 1/4 bzw. 8E44=7-R7 1/4, 8E44=6-R7 3/4 bzw. 8E44=7-R7 3/4, 8E44=6-R8 1/4 bzw. 8E44=7-R8 1/4
Consists of:	10V38 MyoWrist Transcarpal||9E388 Cable Seal||9S267=* Lock Ring

647G351

10V40 MyoWrist 2Act

The MyoWrist 2Act 10V40 was developed especially for all variants of the Otto Bock System Electric Hands with the 8E41 Threaded Stud to maintain a low structural height for the whole system.
Flexion and extension possible with 5 locking positions from -40° to +40° in 20° increments. Rotation is performed passively via the wrist lock. Active rotation is also possible in combination with the MyoRotronic 13E205.

Article number	Outside Ø
10V40	36 mm

647G459

Technical Data

Article number	10V40
Weight	55 g
Overall length	26 mm

Accessories for 10A38 and 10A40

9S266 Chassis with Quick-Disconnect Wrist

Article number	Complete with
9S266	Handgelenkverschluss

9E397 Coaxial Bushing

Article number	Control unit	Hand connection
9E397=7	DMC plus control	8E41 + 8E44
9E397=8	Digital Twin control	8E41 + 8E44
9E397=9	SensorHand Speed control	8E41
9E397=10	VariPlus Speed® control	8E41

11D61 Laminationring Set

Technical Data

Article number	11D61
for	Myolino Wrist 2000

709S42 Allen Wrench

Myo Rotation

10S16 Lamination Ring

The 10S16=* lamination ring connects the 2000 8E51 Electric Hand to a custom-made forearm socket. The low installation height allows fittings with relatively long below-elbow residual limbs, since the lamination ring is directly laminated into the outer shell. The O-Rings included in the delivery make it possible to ideally adjust the desired friction according to the prosthesis wearer's needs, allowing complete rotation of the of the 2000 8E51 Electric Hand

Article number	For hand size	Ø	with
10S16=34	5, 5 1/2	34 mm	627F3 O-Ring
10S16=38	6, 6 1/2	38 mm	627F3 O-Ring

10S1 Lamination Ring

Article number	For hand size
10S1=40	7
10S1=45	7, 7 1/4
10S1=50	7 3/4, System-Elektrogreifer 8E33=*
10S1=54	8 1/4

Technical Data

Reference Number	10S1
for	8E38 System Electric Hands or 8E33 System Electric Greifers
Complete with	lamination protection cover for bonding

9S110 Lamination Ring

For laminating all 8E39 System Electric Hands or
8E34 System Electric Greifers

Article number	For hand size
9S110=50	7, 7 1/4, 7 3/4, System-Elektrogreifer 8E34=*
9S110=54	8 1/4

9S258 Lamination Plate

Article number	For hand size	Side
9S258=L7 1/4	7 1/4	Left (L)
9S258=L7 3/4	7 3/4	Left (L)
9S258=L8 1/4	8 1/4	Left (L)
9S258=R7 1/4	7 1/4	Right (R)
9S258=R7 3/4	7 3/4	Right (R)
9S258=R8 1/4	8 1/4	Right (R)

Technical Data

Reference Number	9S258
for	8E44 Ottobock Transcarpal Hand

9E169 Coaxial Plug

For connecting the two electrodes and the battery, consisting of:

Article number	9E169
Consists of:	Sicherungsring 9E170 501S50=M4x6 Coaxial plug piece

10S4 Coupling Piece

Article number	10S4
Complete with	11S4 Lock Ring

10S17 Electric Wrist Rotator

6/7.2 Volt

647H204

Article number	10S17
Weight	96 g
Operating voltage	6/7.2 V
Approx. no-load current	150 mA
Approx. stall current	1000 mA
Rotation range	360 30°
Idle speed	13.5 U/min
Corresponds to a rotation angle of	81 28°/sec
for	electrical rotation of the System Electric Hand or Greifer,
Consists of:	11S4 Lock Ring 11S61 Wrist Drive with Coaxial Plug 11S25 Lock Ring 9E85 Protective Cap 9E363 Drive Unit 9E365 Protection Plug

647G361

13E205 MyoRotronic

Enables proportional or digital control of the 10S17 Electric Wrist Rotator. Compatible with all MYOBOCK System Electric Hands and System Electric Greifers with Quick-Disconnect Wrist.
Not suitable for use with System Electric Hands for other manufacturer's systems.
5 different programmes can be selected using the 757T13 Myo Select and allow individual adaptation to the respective patient.
One or two 13E200 Electrodes or 13E202 Suction Socket Electrodes or a combination of one electrode and a 9X50/9X52 Linear Control Element are used to control the 13E205 MyoRotronic.
Delivery includes a 13E183 Buzzer for acoustic feedback on the switchover.

Technical Data

Article number	13E205
Static current	1 mA
Operating temperature	0 bis +70 °C
Power supply	MyoEnergy Integral 757B35 (7,4 V) EnergyPack 757B20 / 757B21 (7,2 V) X-ChangePack 757B15 (6 V) Wechsel-Akkumulator 757B8 (6 V)
Power off	load dependent between 30 ms and 10 s

- The 757T13 MyoSelect is required to select programmes and adjust the 13E205 MyoRotronic.
- When using the 10S17 Electric Wrist Rotator and the 13E205 MyoRotronic, the distance between the residual limb end and wrist must be **at least 65 mm** .
- The rotation can be switched off using the 9X24 Connection Cable.

8R1 Endoskeletal Adapter

Can be used to fit both long and short residual limbs in combination with the 8E44 Transcarpal Hand (not included in the delivery!).
The Endoskeletal Adapter allows the use of the Transcarpal Hand as a particularly short and lightweight prosthetic hand with quick-disconnect mechanism for fitting of both long and short residual limbs.

Particularly lightweight: compared with a conventional 8E38 System Electric Hand, the weight is reduced by approx. 80 – 100 g (approx. -20 %), depending on size and tube length, without compromising function. 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 as short as 145 mm, whereas the comparable System Electric Hand is 170 mm (= -15%). (We always measure size 7 3/4 with System Inner Hand.)

Article number	Side	for
8R1=L7 1/4	Left (L)	8E44=6-L7 1/4 8E44=7-L7 1/4
8R1=L7 3/4	Left (L)	8E44=6-L7 3/4 8E44=7-L7 3/4
8R1=L8 1/4	Left (L)	8E44=6-L8 1/4 8E44=7-L8 1/4
8R1=R7 1/4	Right (R)	8E44=6-R7 1/4 8E44=7-R7 1/4
8R1=R7 3/4	Right (R)	8E44=6-R7 3/4 8E44=7-R7 3/4
8R1=R8 1/4	Right (R)	8E44=6-R8 1/4 8E44=7-R8 1/4

Technical Data

Reference Number	8R1
Consists of:	9S263=R/L 9S264 Threaded Connector with Tube Adapter 9S265 Threaded Connector 9S267=* Lock Ring 9E167 Cable Connector 9E388 Cable Seal 9S266 Chassis with Quick-Disconnect Wrist 9E397=7 Coaxial Bushing, brown, with cable 9E397=8 636W23 UHU-Plus Endfest 300 Adhesive 1 pc. Coding Ring, brown

647H501

Myo Elbow Components

DynamicArm

The DynamicArm is an electronically controlled elbow joint with continuous gearing. Its vario-gear permits a more natural reproduction of a natural arm movement pattern through the continuous adjustment of gear ratio to the environmental conditions (input signal of the patient, movement phase, load to be lifted). Its harmonious movements combine high precision with speed to provide the user with more independence in everyday life. The low level of operating noise and the slightly dampened and completely silent free-swing phase support the natural, inconspicuous appearance.

The shape and basic colour of the DynamicArm also match quite well with the human body and allow the amputation to slip into the background of daily life. Silicone elements discreetly divided into various colours dampen noises and shocks, such as those that may be caused when supporting oneself on a rigid surface.

Integrated into an appealing and unobtrusive design with highest possible function, the DynamicArm provides users with quality for life.

12K100N DynamicArm Facelift

Electronically Controlled Active Elbow Component

For Myoelectrically Controlled Prostheses
With electric motor, continuously electronically controlled Vario-Gear, integrated Li-Ion Battery, Bluetooth® Interface BionicLink, electronically controlled Automatic Forearm Balance (AFB) and upper arm rotation joint (sickle joint) with adjustable friction. Maximal forearm length 305 mm. The DynamicArm is a microprocessor controlled elbow joint driven by an electric motor that can be controlled by the user with great precision. The speed of flexion and extension of the elbow are proportionately controlled. Pronation and supination of the wrist can also be proportionally controlled via the integrated electronics using the Electric Rotator 10S17 (optional). Weights of up to 6 kg can be actively lifted, depending on the forearm length. At a normal level of user activity, the integrated Li-Ion battery with a capacity of 1800 mAh is sufficient for approx. 1 day.

The Bluetooth® Interface BionicLink is integrated into the DynamicArm. In combination with the ElbowSoft Software and the 60X5 Bluetooth adapter, it allows wireless adjustments using a PC. Therefore, the prosthesis system can be optimised, even while the patient is wearing the prosthesis. Nine different programs allow the system to be adapted to various requirements. Moreover, all essential parameters can be set individually.
Through the integration of the AXON Bus®, a unique internal data exchange technology developed by Ottobock, the DynamicArm is largely unaffected by electric and magnetic interference (e.g. mobile phones, high-tension power lines, shopping centre security systems, etc.) This further increases operating safety and reliability.

Article number	Upper arm connection Ø	For hand size	For lamination ring Ø	Colour
12K100N=45	70 mm	7 - 7 1/4	45 mm	No. 4
12K100N=50	70 mm	7 3/4 - 8 1/4	50 mm	No. 4
12K100N=50-1	70 mm	7 3/4 - 8 1/4	50 mm	No. 11
12K100N=50-2	70 mm	7 3/4 - 8 1/4	50 mm	No. 15

Colour roughly corresponds to glove colour according to 646M3 colour swatch

646D229
646D120

647G152
646T3=3.3

Control Modes for the DynamicArm

Pr.	Control	Switching mode	DynamicArm control type	Electric Wrist Rotator	System Electric Hand and System Electric Greifer	Indication
1	Two electrodes	• Sequential switching with long or short co-contraction with autom. switch-back to the hand • Vibration active	Proportional	Proportional	All control types for two strong muscle signals	For amputees with two strong muscle signals
2	Two electrodes	• Short co-contraction with autom. switch-back to the hand • Vibration active	Proportional	Not applicable	All control types for two strong muscle signals	For amputees with two strong muscle signals
3	Two electrodes and one 1 switch	• Sequential switching with switch impulse • With autom. switch-back to the hand • Vibration active	Proportional	Proportional	All control types for two strong muscle signals	For amputees with two strong muscle signals
	Two switches	• Sequential switching with switch impulse • With autom. switch-back to the hand • Vibration active	Digital	Digital	All control types for switch control	For amputees with weak or no muscle signals
4	Two electrodes and one switch	• Switching back and forth with switch impulse • With autom. switch-back to the hand • Vibration active	Proportional	Not applicable	All control types for two strong muscle signals	For amputees with two strong muscle signals
	Two switches	• Switching back and forth with switch impulse • With autom. switch-back to the hand • Vibration active	Digital	Not applicable	All control types for switch control	For amputees with weak or no muscle signals
5	Two electrodes and one 4-Step Transducer	• Direct switching with the impulse of a 4-Step Transducer • With autom. switch-back to the hand • Vibration active	Proportional	Proportional	All control types for two strong muscle signals	For amputees with two strong muscle signals
	One switch and one 4-Step Transducer	• Direct switching with the impulse of a 4-Step Transducer • With autom. switch-back to the hand • Vibration active	Digital	Digital	All control types for switch control	For amputees with weak or no muscle signals
6	Two electrodes and one Linear Transducer	Four-channel control	Position control with Linear Transducer	Digital	All control types for two strong muscle signals	For amputees with two strong muscle signals

Pr.	Control	Switching mode	DynamicArm control type	Electric Wrist Rotator	System Electric Hand and System Electric Greifer	Indication
7	Two electrodes and one Linear Transducer	• Co-contraction • With autom. switch-back to the hand • Vibration active	Position control with Linear Transducer	Proportional	All control types with two electrodes	For amputees with two strong muscle signals
8	Two electrodes and one Linear Transducer	Not applicable	Position control with Linear Transducer	Not applicable	All control types with two electrodes	• For amputees with two muscle signals of any strength • Possibility for simultaneous control of DynamicArm and Hand/Greifer component
	One switch and one Linear Transducer	Not applicable	Position control with Linear Transducer	Not applicable	All control types for switch control	For amputees with weak or no muscle signals
9	One electrode and one Linear Transducer	Not applicable	Position control with Linear Transducer	Not applicable	All control types with one electrode	• For amputees with one strong muscle signal • Possibility for simultaneous control of DynamicArm and Hand/Greifer component

ErgoArm

The higher the amputation level, the greater the demands on the fitting technique. The two ErgoArm Electronic plus and ErgoArm Hybrid elbow components facilitate myoelectric fitting of high amputation levels.
They offer up-to-date technology with the aim of combining low weight and extraordinary function with appealing design.

Due to its electronically-controlled lock, the **12K50 ErgoArm Electronic plus** can be locked or unlocked with myo-signals as well as with a switch. This happens inconspicuously in fractions of a second and offers reliable loading in any position.

The **12K44 ErgoArm Hybrid plus** is recommended for hybrid prostheses with a myoelectric hand and a cable-controlled elbow joint. Due to the integrated "EasyPlug" cable guide, all electric cables disappear inside the prosthesis so that they are inconspicuous and protected.

To better fit the patient, both elbow joints are now available with two different wrist connections (50 mm and 45 mm) and in 3 colours.

12K50 ErgoArm Electronic plus

With EasyPlug (internal electrical connection) and Automatic Forearm Balance (AFB) for myoelectrically controlled prostheses.

With internal electronic lock and EasyPlug (internal electrical connection), Automatic Forearm Balance (AFB) and upper arm rotation joint (sickle joint), with adjustable friction. Plastic forearm shell, length 305 mm, circumference approx. 260 mm, skin-coloured plastic elbow ball.

The continuously-adjustable electronic lock can be locked or unlocked either with myoelectric signals (2 electrodes: co-contraction) or by means of a switch. Various programs that can be accessed via colour-coded connections permit individual adaptation of the lock control system to the user's individual requirements. 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 connecting cables can be plugged into the elbow cover. Since there are no external cables, its overall durability is increased, reducing the risk of defects caused by broken cables and enhancing cosmetic appearance at the same time. The internal infinite-position lock can be unlocked or locked under load in any position.

Article number	Upper arm connection Ø	For hand size	For lamination ring Ø	Colour
12K50=45	70 mm	7 – 7 1/4	45 mm	No. 4
12K50=45-1	70 mm	7 – 7 1/4	45 mm	No. 11
12K50=45-2	70 mm	7 – 7 1/4	45 mm	No. 15
12K50=50	70 mm	7 3/4 – 8 1/4	50	No. 4
12K50=50-1	70 mm	7 3/4 – 8 1/4	50 mm	No. 11
12K50=50-2	70 mm	7 3/4 – 8 1/4	50 mm	No. 15

Colour roughly corresponds to glove colour according to 646M3 colour swatch

647H437

Switching Modes 12K50

Switching mode		Lock	SLIP-STOP	Four Channel Processor II	Hand
1	white	Press the switch ➜ release = lock Press the switch ➜ release = unlock	NO	All switching modes	All versions
2	red	Co-contraction = lock Co-contraction = unlock	NO	Only Program 1 (white) Four-channel Control or Program 9 Adjustment Cap	All versions with 2 electrodes
3	green	Press and hold down switch = elbow mode Electrode OPEN = unlock Electrode CLOSE = lock Release the switch = Hand mode	YES	All switching modes	
4	blue	Press the switch ➜ release= elbow mode Electrode OPEN = unlock Electrode CLOSE = lock Press the switch ➜ release = hand mode	YES		
5	yellow	Press the switch ➜ release= elbow mode Electrode OPEN = unlock Electrode CLOSE = lock 10 s no electrode signal = hand mode or press the switch ➜ release = hand mode	YES		
6	magenta	Co-contraction = elbow mode Electrode OPEN = unlock Electrode CLOSE = lock Co-contraction = hand mode	YES	Only Program 1 (white) Four-channel Control or Program 9 Adjustment Cap	Not recommended for hands with Digital or Digital-Twin Control System
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		

Vibration feedback signal for successful switching over between hand and elbow is activated in Programs 3–7.

1x vibration = hand mode (the hand is controlled by electrode signals)
2x vibration = elbow mode (the elbow is controlled by electrode signals)

ErgoArm Hybrid plus

12K44 ErgoArm Hybrid plus

With EasyPlug (internal electrical connection) and Automatic Forearm Balance (AFB) for myoelectrically controlled hybrid prostheses.

With internal infinite-position lock and upper arm rotation joint (sickle joint) with adjustable friction. Plastic forearm shell, length 305 mm, circumference approx. 260 mm, skin-coloured plastic elbow ball.

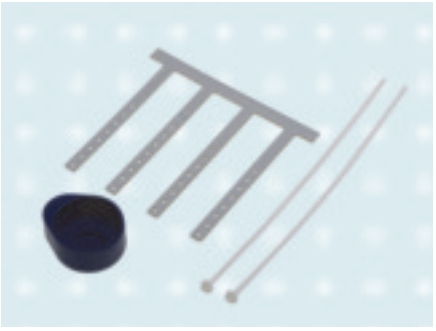
The slip-stop function makes it possible to lower the forearm in a controlled manner without having to fully release and reactivate the lock. The lock can bear a load of up to 230 N at a forearm length of 305 mm.
The electrode and battery connecting cables can be plugged into the elbow cover. Since there are no external cables, its overall durability is increased, reducing the risk of defects caused by broken cables and enhancing cosmetic appearance at the same time.
The internal infinite-position lock can be unlocked or locked under load in any position.

Article number	Upper arm connection Ø	For hand size	For lamination ring Ø	Colour
12K44=45	70 mm	7 – 7 1/4	45 mm	No. 4
12K44=45-1	70 mm	7 – 7 1/4	45 mm	No. 11
12K44=45-2	70 mm	7 – 7 1/4	45 mm	No. 15
12K44=50	70 mm	7 3/4 – 8 1/4	50 mm	No. 4
12K44=50-1	70 mm	7 3/4 – 8 1/4	50 mm	No. 11
12K44=50-2	70 mm	7 3/4 – 8 1/4	50 mm	No. 15

Colour roughly corresponds to glove colour according to 646M3 colour swatch

647H437

Accessories for 12K44 and 12K50



743A23 Alignment Aid for ErgoArm

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

21A207 Clamp Stopple Set

The clamp stopple set is used to connect the 12K48=* or 12K49=* ErgoArm Forearm Component to the elastic strap of the 21A35=1 Triple-Control Above-Elbow Harness.

Article number	Consists of:
21A207	10 pieces clamp stopples 10 pieces short threaded fittings 1 piece twist drill Ø 5.5 mm

13Z68 Adapter

Adapter for mounting a 12K50 Ottobock Elbow Component to a Hosmer lamination ring.

Myo Battery Manager

Batteries

647G47 646D326

757B13 Interchangeable Battery

For MyoBock 4.8 Volt children's system

Article number	757B13
Weight	40 g
Capacity	1.5 mAh
Average discharge level	4.8 V
Final discharging level	4.4 V
Dimensions LxWxH	69x26.5x14.5 mm
Technology	Nickel metal hydride
for	integration into all socket shapes
Complete with	on/off switch and replaceable integrated fuse

- For charging the 757B13 Interchangeable Battery, only use a 757L13 Pulse Charger.
- Can only be used for MyoBock 4.8 V children's system

646D442 647G533

757B35 MyoEnergy Integral

For MyoBock System

The MyoEnergy Integral 757B35=* is an integrated power supply system made up of several components.
The **charging receptacle** enables the battery contact, indicates the current charge status and serves to switch the prosthesis on and off and release it 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 prosthesis component.
The **battery** consists of two cells with different capacities.

Article number	757B35=1	757B35=3
Capacity	600 mAh	1150 mAh
Approx. output voltage	7.4 V	
Approx. charging time	2.5 h	
Technology	Lithium polymer	Lithium-ion
for	System MyoBock	
Consists of:	Battery Lamination Dummy | Charging Receptacle Lamination Dummy|Drilling Template for Charging Receptacle	

- The MyoEnergy Integral can be used for adult and children fittings (in combination with the 9E420=* 7in1 Controller).

757B20/757B21 EnergyPack

For MyoBock System, 6/7.2 Volt,

Compared to NiCd battery, these batteries have a lower self-discharge level, higher cell voltage and greater capacity. They
have no memory effect.

Article number	757B20	757B21
Weight	65 g	51 g
Capacity	900 mAh	800 mAh
Charging time (full charge)	ca. 3.5 h	ca. 3.0 h
Technology	Lithium-ion	
for	integration into all socket shapes, even in cases of long residual limbs	

- Can only be used for MyoBock adult systems

647H356

757B15 X-ChangePack

For MyoBock System, 6 Volt

In comparison with NiCd batteries, NiMh batteries are the same size
but have a considerably higher capacity.
Recommended especially for retrofitting existing 6 Volt prosthetic systems.
For this reason, old prosthetic systems can be operated without energy management (the Ottobock 6 Volt System is not suitable for operation with Li-Ion batteries) without problems.

Article number	757B15
Weight	77 g
Capacity	550 mAh
Nominal voltage	6 V
Dimensions	81x28x16 mm
Technology	Nickel metal hydride
for	integration into all socket shapes, even in cases of long residual limbs

- For charging the 757B15 Interchangeable Battery, only use a 757L14 Pulse Charger.
- Can only be used for MyoBock adult systems

647H482

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Battery Receptacle

647H6

757Z149 Battery Receptacle Set

Article number	757Z149
for	the 757B13 Interchangeable Battery
Consists of:	757Z150 Battery Receptacle 757Z151 Cable Retention Piece with 627F1=3.1x1.6 O-Ring 757Z152 Casting Template 757Z153 Spacer Insert

647H369

757Z184=1 Battery Receptacle Set

Article number	757Z184=1
for	757B20 EnergyPack
Consists of:	757Z185=1 Battery Receptacle 757Z186 Locking Lever 757Z188=1 Spacer Insert 757Z187=1 Casting Template 757Z189=1 Foil Template

757Z185=1 Battery Receptacle

Battery frame without locking lever

Article number	757Z185=1
for	757B20 EnergyPack

647H492

757Z184=2 Battery Receptacle Set

with screw clamp connection for quick removal from the socket. Integrated connection sockets for electrodes, hand cables or for the 757P41 and 757P39 Connection Cables for connection to the MyoBoy

Article number	757Z184=2
for	757B20 EnergyPack
Consists of:	757Z185=2 Battery Receptacle 757Z186 Locking Lever 757Z187=1 Casting Template 757Z189=1 Foil Template 757Z202 Plug 506G1=M3x10 Set Screw

757Z185=2 Battery Receptacle

Battery Receptacle **with screw clamp connection**, without locking lever

Article number	757Z185=2
for	757B20 EnergyPack
Consists of:	757Z202 Plug 506G1=M3x10 Set Screw

757Z190=1 Battery Receptacle Set

Article number	757Z190=1
for	757B21 EnergyPack
Consists of:	757Z191=1 Battery Receptacle 757Z186 Locking Lever 757Z193=1 Spacer Insert 757Z192=1 Casting Template 757Z194=1 Foil Template

647H369

757Z191=1 Battery Receptacle

Battery receptacle without locking lever

Article number	757Z191=1
for	757B21 EnergyPack

757Z190=2 Battery Receptacle Set

with screw clamp connection for quick removal from socket. Integrated connection sockets for electrodes, hand cables or for 757P41 and 757P39 Connection Cables for connecting to the MyoBoy

Article number	757Z190=2
for	757B21 EnergyPack
Consists of:	757Z191=2 Battery Receptacle 757Z186 Locking Lever 757Z192=1 Casting Template 757Z194=1 Foil Template 757Z202 Plug 506G1=M3x10 Set Screw

647H492

757Z191=2 Battery Receptacle

Battery Receptacle **with screw clamp connection**, without locking lever

Article number	757Z191=2
for	757B21 EnergyPack
Consists of:	757Z202 Plug 506G1=M3x10 Set Screw

757Z103=1 Battery Receptacle Set

Article number	757Z103=1
for	757B15 X-ChangePack
Consists of:	757Z104=1 Battery Receptacle 757Z105=1 Cable Retention Piece with O-Ring 757Z106=1 Casting Template 757Z107=1 Spacer Insert

647H6

757Z103=2 Battery Receptacle Set

The battery is inserted 2.5 mm into device.

Article number	757Z103=2
for	757B15 X-ChangePack
Consists of:	757Z104=2 Battery Receptacle 757Z105=2 Cable Retention Piece with O-Ring 757Z106=2 Casting Template 757Z107=2 Spacer Insert

Accessories for 757Z184 and 757Z190 Battery Receptacles

757Z186 Locking Lever

757Z195 Locking Lever

Article number	757Z195
for	bilateral amputees
Complete with	enlarged release lever for increased user comfort

Chargers

757L13 Pulse Charger

For simultaneous charging one or two 757B13 Interchangeable Batteries.
The case is made of impact and break-resistant plastic material.
The design conforms to recommended standards. Includes 757L16-2 Mains Adapter with interchangeable EU and US plug.

Article number	757L13
Weight	220 g
Operating temperature	0 bis +40 °C
Dimensions LxWxH	130x70x45 mm
Supply voltage range	100-240 automatic adjustment V/AC
Mains frequency	40 -70 Hz
Charging current for 757L13	Pulse current technology, average direct current charge approx. 50 mA, reduction to trickle charge
Charging time (for full charge)	ca. 5 h

647H169

757L35 MyoCharge Integral

The MyoEnergy Integral integrated into the socket is charged using the 757L35 MyoCharge Integral. 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 charger and the current battery capacity.

Article number	757L35
Operating temperature	0 bis +60 °C
Storage temperature	-20 to +60 °C
Mains frequency	50 - 60 Hz
Supply voltage	100 - 240 V

- The MyoCharge Integral can be operated for MyoEnergy Integral (757B25=1, 757B35=1 and 757B35=3) models.

647G534

757L20 Li-Ion Charger

For charging one or two 757B20/757B21 EnergyPacks. The case is made of impact-resistant plastic material. Includes 757L16-2 mains adapter with EU and additional US plug. The design conforms to recommended standards, protection class II.

Article number	757L20
Operating temperature	0 bis +50 °C
Mains frequency	47 - 63 Hz
Nominal voltage	100 - 240 (automatic adjustment) V/AC
Approx. charging time for EnergyPacks	3.5 (757B20) 3.0 (757B21) h

647H357

647G260

757L14 Pulse Charger

For simultaneously charging one or two 757B15 X-ChangePacks.
The case is made of impact and break-resistant plastic material.
The design conforms to recommended standards, protection class II.
Includes 757L16-2 Mains Adapter with interchangeable EU and US plug.

Article number	757L14
Weight	220 g
Operating temperature	0 bis +40 °C
Dimensions LxWxH	130x70x45 mm
Supply voltage range	100 - 240 V/AC
Mains frequency	40 - 70 Hz
Charging time (for full charge)	ca. 10 h
Charging current for 757L14	Pulse current technology, average direct current charge approx. 70 mA, reduction to trickle charge

Accessories for chargers

4X74 Car Charging Cable 12 V

This cable allows charging of one 757B35=* or two 757B20/757B21 EnergyPacks, 757B15 X-ChangePacks or 757B13 Interchangeable Batteries using the cigarette lighter of a car.

Article number	4X74
for	MyoBock 757L35, 757L20, 757L14 and 757L13 chargers

757L16-2 Universal Power Supply

Mains unit for powering the MyoBock 757L35, 757L20, 757L14, 757L13 chargers

757S1=AUS Adapter for Australia

757S1=GB Adapter for the UK

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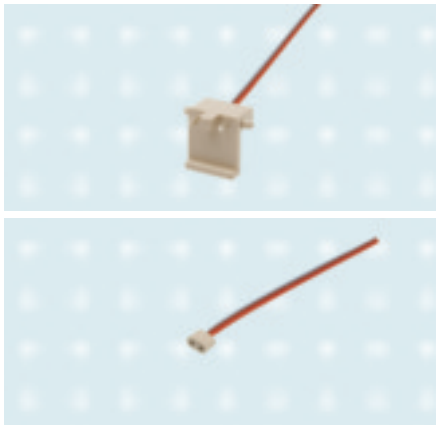
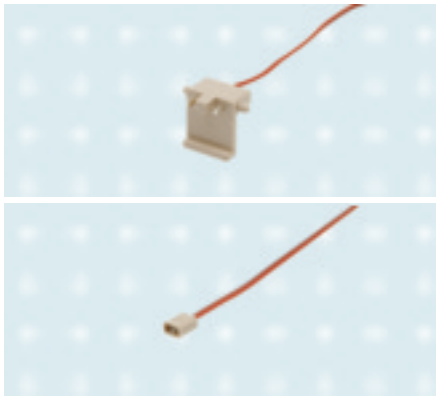
Battery Connection



13E51=2 Battery Connecting Cable

For connecting a 757B15 X-ChangePack to 9E169 Coaxial Plug, 13E205 MyoRotronic, 13E190 or 13E190=150 Distributor, 10S17 Electric Wrist Rotator (for switch control) or 12K44 ErgoArm Hybrid plus or 12K50 ErgoArm Electronic plus.

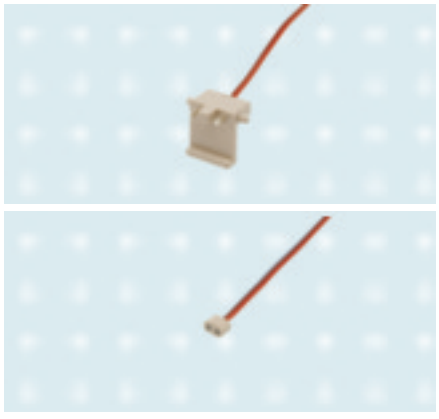
Article number	Length	for
13E51=2	200 mm	757B15



13E51=3 Battery Connecting Cable

For connecting a 757B15 X-ChangePack to the 13E98 Connecting Cable or various switch systems.

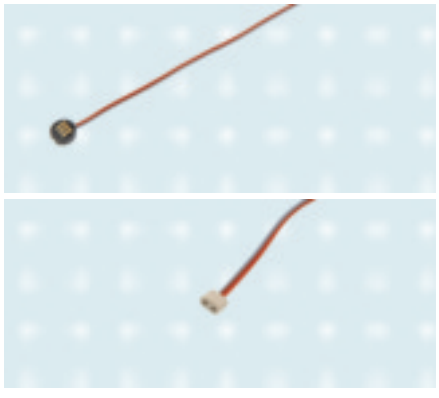
Article number	Length	for
13E51=3	200 mm	757B15



13E51=4 Battery Connecting Cable

For connecting the 757B15 X-ChangePack to the 9E169 Coaxial Plug, 10S17 Electric Wrist Rotator or 13E205 MyoRotronic

Article number	Length	for
13E51=4	600 mm	757B15



13E188 Battery Connecting Cable

For connecting the 757Z185=1 or 757Z191=1 Battery Receptacle to 9E169 Coaxial Plug, 10S17 Electric Wrist Rotator or 13E205 MyoRotronic or the 13E190 or 13E190=150 distributor

Article number	Length	for
13E188=200	200 mm	757B20/757B21
13E188=600	600 mm	757B20/757B21

13E190 Distributor

For connecting the 757B20 or 757B21 EnergyPack, 13E200 or 13E202 Electrodes and System Electric Hands to **9E53 Hand Cable**.
Without extension cable.

Article number	for
13E190	757B20/757B21

- Apply 633F11 Silicone Grease to the bushings prior to connection.
  Protects against corrosion!

13E190=150 Distributor

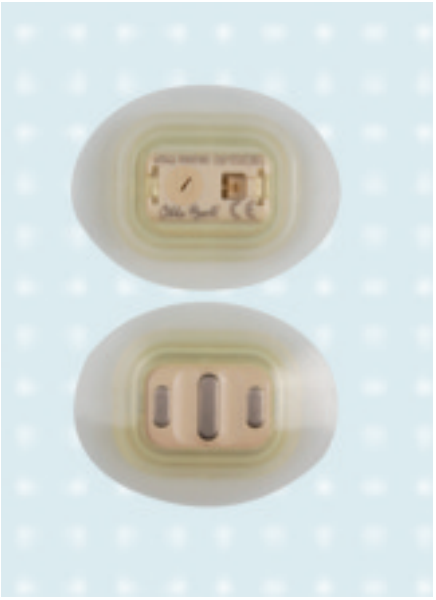
For connecting the 757B20 or 757B21 EnergyPack, 13E200 or 13E202 Electrodes and System Electric Hands to **9E53 Hand Cable and extension cable**.

Article number	Length	for
13E190=150	150 mm	757B20/757B21

- Apply 633F11 Silicone Grease to the bushings prior to connection.
  Protects against corrosion!

Myo Control Elements

Electrodes



647G334

13E202 Suction Socket Electrode

Electrode cable connection with IDC termination, with 13E206 Electrode Accessories, without electrode cable.

This generation of electrodes are based on the well-known 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 fittings, but is also suitable for application in suction sockets. Combining the suction socket electrode with a 12V10 Tube Valve for a suction 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 cell 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 as they do not contain nickel, they are also suitable for people with allergies.

The frequency filter's full protection effect will only be provided if the mains frequency and filter frequency are identical.

Article number	13E202=50	13E202=60
HZ	50	60
Frequency bandwidth	90 - 450 Hz	
Ambient temperature	-15 bis +60 °C	
Operating voltage U	4.8 - 7.2 V	

- Use 633F11 Silicone Grease to seal the plug connections.
- Remove any excessive grease after connecting the electrode cable.
- For accessories for vacuum forming of inner sockets, see pages 122, 335, 337
- 12V10 Tube Valve, see Page 336

13E200=* Electrode

Electrode cable connection with IDC termination, with **13E153 Electrode Accessories**

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, particularly in the range of high muscle signals.

Thanks to modern frequency shielding and filtering technologies, it is significantly 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 as they do not contain nickel, they are also suitable for people with allergies.

The frequency filter's full protection effect will only be provided if the mains frequency and filter frequency are identical.

647H490

Article number	13E200=50	13E200=60
Weight	4.5 g	
HZ	50	60
Operating voltage	4.8 - 7.2 V	
Dimensions LxWxH	27x18x9.5 mm	
Frequency bandwidth	90 - 450 Hz	
Ambient temperature	-15 bis +60 °C	

- Use 633F11 Silicone Grease to seal the plug connections. Remove any excessive grease after connecting the electrode cable.
- For accessories for vacuum forming of inner sockets, see pages 122, 335, 337

Accessories for electrodes

13E206 Electrode Accessory Set

Electrode Accessories

Article number	13E206
for	13E202 Suction Socket Electrode
Consists of:	13E203 Lamination Template for Inner Socket 13E204 Lamination template for Outer Socket 507S15 Lamination Disk, serrated 503F3 Socket Screw with Allen head 13E80 Sensitivity Adjustment Tool

13E153 Electrode Accessories

Article number	13E153
for	laminated inner sockets with 13E200 Electrode
Consists of:	13E191 Pattern for inner shell 13E192 Lamination template for Outer Socket 507S15 Lamination Disk, serrated 503F3 Socket Screw with Allen head 13E80 Sensitivity Adjustment Tool

- Use a 709S10=2 Allen Head Wrench for 503F3 Socket Screw when connecting the inner and outer socket.

13E201 Electrode Accessories

Article number	13E201
for	vacuum-formed inner sockets with 13E200 Electrode
Consists of:	Pattern for inner shell 13E172 Electrode mounting bracket (skin colours) Lamination dummy for electrode mounting bracket 29C5=M4x9 Setting Nut

- The 13E201 Electrode Accessories are only available as a set
- The 13E172 Electrode Mounting Bracket and 29C5=M4x9 Setting Nut can be ordered individually

13E135 Electrode Mounting Bracket Set

For positioning and assembling the MYOBOCK electrodes to the interim plaster socket or the interim socket of Thermolyn (616T52 or 616T53).

Article number	13E135
for	13E200 Electrodes

Control Elements

9X50/9X51 Control Element

For assembly in a harness system

The **9X50 Linear Control Element** allows continuous, proportional control of prosthesis components using harnesses.

The **4-step 9X51 Control Element** allows for proportional control of prosthetic components at four different speed levels using harnesses. In combination with the 12K100 DynamicArm, it provides the possibility to selectively switch between the different system components.

Reference Number	9X50/9X51
Weight	6 g
Cable travel	8 mm
Max. operating force	10 N

For 13E129=G* Connecting Cable, see Page 127

647H475

9X52/9X53 Control Element

For assembly between the outer and inner prosthetic socket

The **9X52 Linear Control Element** allows continuous, proportional control of prosthesis components using harnesses.

The **4-step 9X53 Control Element** allows for proportional control of prosthetic components at four different speed levels using harnesses. In combination with the 12K100 DynamicArm, it provides the possibility to selectively switch between the different system components.

Reference Number	9X52/9X53
Weight	11 g
Cable travel	8 mm
Max. operating force	10 N

For 13E129=G* Connecting Cable, see Page 127

647H485

Switches

647G400

9X14 Harness Pull Switch

To be used in a harness or as a cable pull switch

For controlling the 10S17 Electric Wrist Rotator, the 8E38=7, 8E38=8, 8E38=9 and 8E12 System Electric Hand, or the 8E33=7 and 8E33=9 System Electric Greifer.
The control cables can be plugged in after lifting the cover of the switch.
Functional sequence: off – function 1, – off – function 2.

Article number	9X14
Weight	19 g
Scope of Delivery	501T16=M2x6 Cap Screw (4 pieces)

For Connecting Cable, see pages 126-127

647G401

9X18 Cable Pull Switch

With steel cable, bow and wedge lock.
Standard use: the switch housing is screwed onto the socket, the steel cable is connected to the harness or another pull cable for controlling the 10S17 Electric Wrist Rotator, the 8E38=7, 8E38=8, 8E38=9 and 8E12 System Electric Hand or the 8E33=* System Electric Greifer.
Functional sequence: off – function 1, – off – function 2.

Article number	9X18
Weight	17 g
Scope of Delivery	501S46=M3x5 Oval Head Countersunk Screw (2 pieces) 501S46=M3x8 Oval Head Countersunk Screw (2 pieces)

For Connecting Cable, see pages 126-127

647G402

9X25 Rocker Switch

With laterally attached four-conductor flat cable with plug connection,
for controlling the 10S17 Electric Wrist Rotator, the
8E38=7, 8E38=8 and 8E12, System Electric Hand, the 8E33=* System Electric Greifer.

Article number	9X25
with	501S46=M2x8 Oval Head Countersunk Screw (2 pieces) 501S46=M2x5 Oval Head Countersunk Screw (2 pieces)

- Use a 13E99 Connection Cable for opening and closing.
- Use 13E50 or 13E97 Connection Cable to control pronation and supination.
- Use the 13E98 Connection Cable to control opening and closing of the 8E12 System Electric Hand.
- For Connecting Cable, see pages 126-127

9X37 Pressure Switch

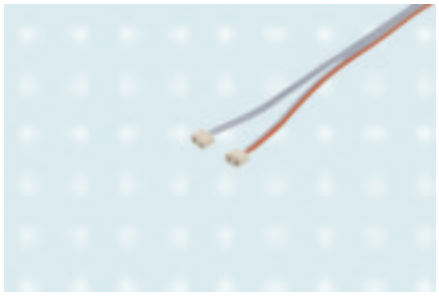
The pressure switch makes it possible to control the 8E38=* System Electric Hand, the 8E33=* System Electric Greifer or the 10S17 Electric Wrist Rotator in connection with the 13E205 MyoRotronic.
The switch's special feature allows the separate adjustment of both control points.

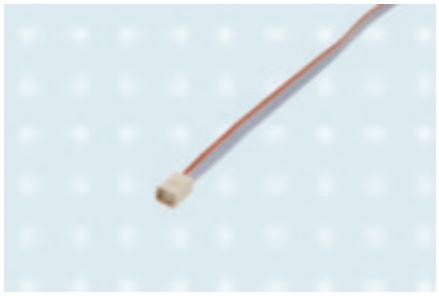
Article number	9X37
with	501S75=M2x8 Oval Head Countersunk Screw (2 pieces) 501S75=M2x5 Oval Head Countersunk Screw (2 pieces)

- Use a 13E99 Connection Cable for opening and closing.
- For Connecting Cable, see Page 127

647H71

Connection Possibilities

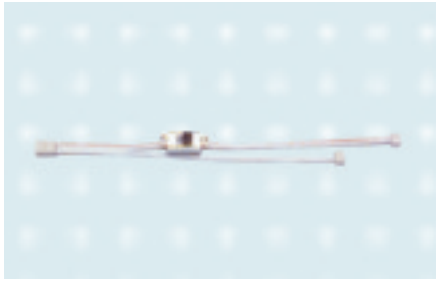




13E50 Connecting Cable

To control electric pronation and supination with the 10S17 Electric Wrist Rotator.
The connection cable provides the electrical connection between the wrist rotator and the 9X14 Harness Pull Switch, 9X18 Cable Pull Switch, or 9X25 Rocker Switch.

Article number	Length
13E50=250	250 mm
13E50=1200	1200 mm



13E97 Connection Cable with On-Off Switch

To control electric pronation and supination with the 10S17 Electric Wrist Rotator.
Pronation and supination function may be turned off using the switch.
The connection cable provides the electrical connection between the electric wrist rotator and 9X14 Harness Pull Switch, 9X18 Cable Pull Switch or 9X25 Rocker Switch.

Article number	Length
13E97=250	250 mm
13E97=1200	1200 mm

13E98=1200 Connecting Cable

For controlling opening and closing of the 8E12 System Electric Hand.
The connection cable provides the electrical connection between the System Electric Hand and the 9X14 Harness Pull Switch, 9X18 Cable Pull Switch or 9X25 Rocker Switch.

Article number	Length
13E98=1200	1,200 mm

13E99=1200 Connecting Cable

For controlling opening and closing of the 8E38=9, 8E38=7, 8E38=8 System Electric Hand or the 8E33=* System Electric Greifer.
The connection cable provides the electrical connection between the coaxial plug or electric wrist rotator and the 9X14 Harness Pull Switch, 9X18 Cable Pull Switch, 9X25 Rocker Switch or 9X37 Pressure Switch.

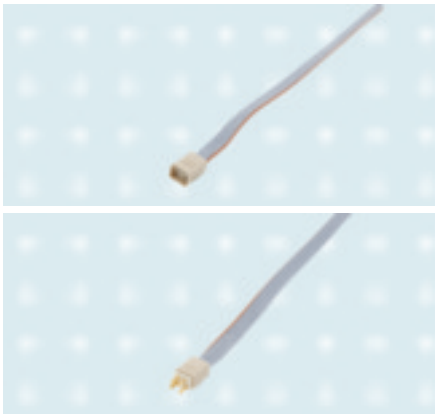
Article number	Length
13E99=1200	1,200 mm

9E185 Extension Cable

For elongation of the hand cable of the 8E39, 8E41, 8E44 System Electric Hand or 8E34 System Electric Greifer and connection to the 757Z185=2 or 757Z191=2

Article number	Length
9E185=30	300 mm
9E185=40	400 mm
9E185=50	500 mm

- Apply 633F11 Silicone Grease to the bushings prior to connection.



757P41 Connection Cable

For connecting the 757Z185=2 or 757Z191=2 Battery Receptacle and the 9E169 Coaxial Plug or the 13E205 MyoRotronic.

13E129 Electrode Cable with Straight Plug and 13E121 Plug Connector

For connecting the electrode and the 9E369/9E370 4in1 LS Controller or 9E420 7in1 Controller, the 9E169 Coaxial Plug, 13E190 Distributor or 10S17 Electric Wrist Rotator or 13E205 MyoRotronic

Article number	Length
13E129=G100	100 mm
13E129=G300	300 mm
13E129=G600	600 mm
13E129=G1000	1000 mm

Myo Master

Control for systems designed for children

646D442 647G595

7in1 Controller

The 9E420 7in1 Controller 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 7 programmes, some of which have been adopted from the adult system.
Children can benefit from the range of possibilities offered by systems for adults, their prosthetic hand can be adapted more individually and they are simultaneously prepared for a subsequent fitting with the adult system.

Numerous Control Programmes
7 programme modes can be used to ideally adjust to the patient's needs.

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 757B25=1 or 757B35=* MyoEnergy Integral.

Article number	Side
9E420=L	Left (L)
9E420=R	Right (R)

646D326 647H209

4in1 Controller LS

The 4in1 Controller LS extends fitting possibilities in the area of long forearm residual limbs and wrist disarticulations. Four different controls can be selected by various coloured coded plugs.
The 4in1 Controller LS is required for a fitting with an 8E51 Electric Hand 2000.

Article number	For hand size
9E369	5
9E370	5 1/2, 6, 6 1/2

Technical Data

Article number	9E369	9E370
Consists of:	9E371 Contact Plate|9E372 Lamination Pattern |9E373Controller for 9E369|9E374 Controller for 9E370	9E371 Contact Plate|9E372 Lamination Pattern |9E373Controller for 9E369|9E374 Controller for 9E370

Accessories for 4in1 Controller LS

13E182 Coding Plug Set

The 4in1 Controller LS differentiates between 4 functions and between right and left arm prostheses using colour coded plugs:

Article number	Side	Colour	9E370	9E369
13E184=1	Left (L)	white	2 Elektroden-digital	1 Elektrode-digital (EVO)
13E184=2	Right (R)	red	2 Elektroden-digital	1 Elektrode-digital (EVO)
13E184=3	Left (L)	green	2 Elektroden-DMC	2 Elektroden-DMC
13E184=4	Right (R)	blue	2 Elektroden-DMC	2 Elektroden-DMC
13E184=5	Left (L)	yellow	2 Elektroden-DMC LowInput	2 Elektroden-DMC LowInput
13E184=6	Right (R)	purple	2 Elektroden-DMC LowInput	2 Elektroden-DMC LowInput
13E184=7	Left (L)	orange	1 Elektrode-EVO	1 Elektrode-DMC Low (EVO)
13E184=8	Right (R)	black	1 Elektrode-EVO	1 Elektrode-DMC Low (EVO)

Digital: "Open/Close" by two electrodes DMC: proportional control by two electrodes Low Input: as with DMC, only for children with lower muscular voltage from approx. 20 µV EVO: proportional "opening" by one electrode, automatic "closing" function via motor

- The eight coded plugs are also available separately.

Myo Software

646D315 647G461

646C48 PAULA with MyoBoy

PAULA is a comprehensive software package providing essential support for fabricating upper limb prostheses. The software assists certified prosthetists 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 prosthetists a familiar user interface.

- 646F277 Myo Poster
- 646F286 Movo-Poster

646D315 646G461

646C52 PAULA

PAULA is a comprehensive software package providing essential support for fabricating upper limb prostheses. The software assists certified prosthetists 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 prosthetists a familiar user interface.

757M11=X-Change MyoBoy

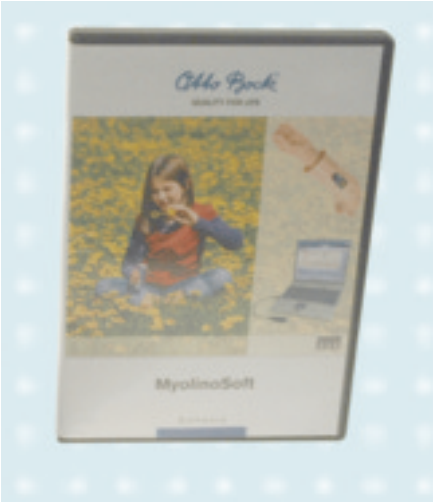
The MyoBoy serves to provide optimum support for the prosthetist and patient when training muscle activity and for the realistic simulation of the MyoBock systems.
The data that are collected allow the most suitable control system for the individual fitting to be selected.
As standard equipment, the MyoBoy is included in the scope of delivery of the Ottobock PAULA software (646C48=*). The MyoBoy can be ordered separately under article number 757M11=X-Change as a replacement or exchange.

Article number	757M11=X-Change
Scope of Delivery	757G265=1 Quick Reference Guide 757Z18 Grounding Cable 757P44 Electrode Adapter 757Z174 Electrode Armband Screwdriver USB Cable Carrying Case Optional: 757P23 Test Adapter 757P39 MyoBoy Communication Cable

646C42 ElbowSoft

The "ElbowSoft" software is to be used exclusively for adjusting the DynamicArm and any Ottobock System components connected to it (8E38=* System Electric Hands, 8E33=* System Electric Greifers, 10S17 Electric Wrist Rotator) within the scope of an exoprosthetic fitting. Participation in an Ottobock product training is mandatory prior to using the product. To qualify for software updates, additional product training courses may be necessary.

647G341



647G578=V1.0

560X3 MyolinoSoft

In order to offer patient-specific controller settings, setup 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 program, switching threshold and gripping speed that can be individually adjusted. This is especially advantageous for children with high mobility requirements.

The 560X3 MyolinoSoft Software is designed for setting the 7in1 9E420 Controller and the Electric Hand 2000 connected to it. 7 programme versions are available.

647G594

60X6 MyolinoLink

The MyolinoLink 60X6 is used for wireless data communication between Ottobock products (e.g. 7in1 Controller) and a PC with Bluetooth® functionality.

The MyolinoLink is equipped with an LED. When the LED is lit, this indicates that the connection between the MyolinoLink and PC has been established successfully. When the LED is flashing, this indicates that data is being exchanged between the MyolinoLink and the PC.

Patient-specific settings can only be administered with the Ottobock MyolinoSoft software.

647G463

646C50=V1.2 MovoPAULA

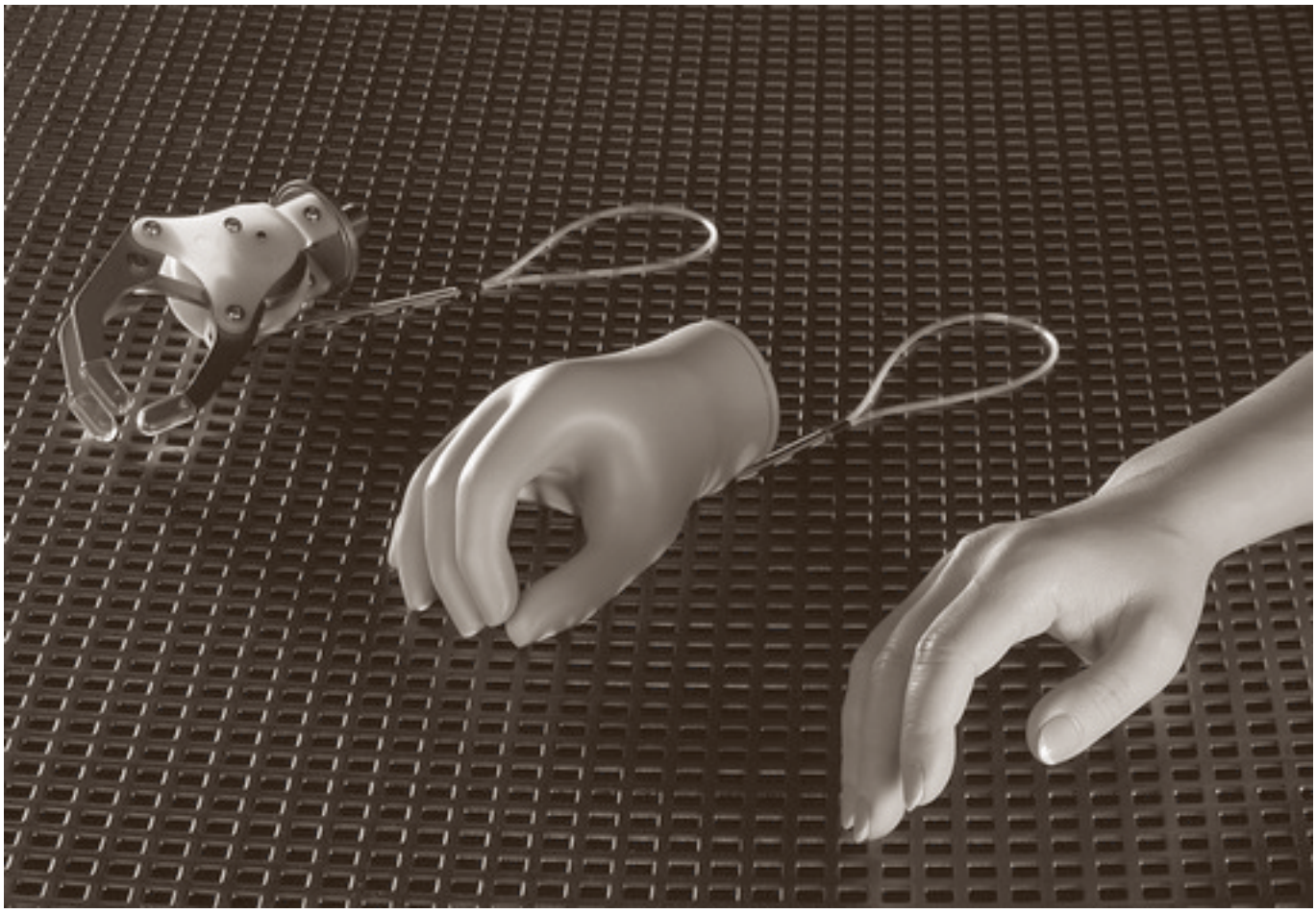
MovoPAULA is a comprehensive software package providing essential support for the fabrication of cable-controlled and passive upper limb prostheses. The software assists prosthetists with the planning, socket design and construction of the prosthesis. Thanks to the integration into the Ottobock Data Station, a common platform has been created, offering the prosthetist a familiar user interface.
MovoPAULA is particularly well suited for prosthetists who exclusively carry out fittings with conventional upper limb prostheses and who are not myo-certified.

646C51=V1.2 TED & MyoBoy

The TED software guides therapists through patient management, thereby enabling accurate documentation of the entire fitting process. In addition to myo-prosthesis training, the software includes a component selection for the future prosthesis. All steps performed by the therapist can be documented and placed at the disposal of the decision makers who are involved in the fitting. All data can be transferred to the full version of PAULA, thus facilitating cooperation with prosthetists.

647G462

Movo Terminal Devices



Otto Bock System Hands

The System Hand, developed by Otto Bock, was designed to meet the functional needs of the patient. The System Hand consists of three parts – the hand chassis with hand mechanism,
the shaped inner hand, and the cosmetic glove — providing both functionality and a natural appearance.

The gripping function depends on the construction of the hand mechanism:
Passive system hands are used for **passive arm prostheses**. They are opened by the sound hand and close automatically.

The single-cable and double-cable System Hands belong to the cable-activated prostheses or "active prehensile arms" and are activated by a harness control system.

The **single-cable system** is opened by pulling the cable and closes automatically.
The **double-cable system** is closed by pulling the control cable. Another pull releases the lock and opens the hand.
Connection to the forearm is provided by the threaded stud or in the case of long residual limbs by the chassis.

The system inner hand encloses the hand mechanism and provides the shape of the prosthetic glove, which is selected according to the size of the inner hand and is available in various models and colours.

Ottobock System Hand -passive-

With threaded stud and system inner hand,
Hand sizes:

6 3/4	for children
7 1/4	for adolescents and women
7 3/4	for men
8	for men

The passive system hand can be used for all lengths of the residual limb to be fitted with a cosmetic prosthesis. It is opened with the sound hand and closes independently. The system is lightweight and stable.

The Prosthetic glove must be ordered separately. See pages 172-174, 214-216

647G444

Article number	Side	Threaded stud	Size	Inner hand
8K18=L6 3/4	Left (L)	M12x1,5	6 3/4	8X14=L6 3/4
8K18=L7 1/4	Left (L)	M12x1,5	7 1/4	8X14=L7 1/4
8K18=L7 3/4	Left (L)	M12x1,5	7 3/4	8X14=L7 3/4
8K18=L8	Left (L)	M12x1,5	8	8X14=L8
8K18=R6 3/4	Right (R)	M12x1,5	6 3/4	8X14=R6 3/4
8K18=R7 1/4	Right (R)	M12x1,5	7 1/4	8X14=R7 1/4
8K18=R7 3/4	Right (R)	M12x1,5	7 3/4	8K21=L8
8K18=R8	Right (R)	M12x1,5	8	8X14=R8

Technical Data

Reference Number	8K18	8K18	8K18	8K18
Size	6 3/4	7 1/4	7 3/4	8
Weight	ca. 185 g	ca. 250 g	ca. 280 g	ca. 290 g

Article number	Side	Threaded stud	Size	Inner hand
8K19=L6 3/4	Left (L)	1/2"–20	6 3/4	8X14=L6 3/4
8K19=L7 1/4	Left (L)	1/2"-20	7 1/4	8X14=L7 1/4
8K19=L7 3/4	Left (L)	1/2"-20	7 3/4	8X14=L6 3/4
8K19=L8	Left (L)	1/2"-20	8	8X14=L8
8K19=R6 3/4	Right (R)	1/2"-20	6 3/4	8X14=R6 3/4
8K19=R7 1/4	Right (R)	1/2"-20	7 1/4	8X14=R7 1/4
8K19=R7 3/4	Right (R)	1/2"-20	7 3/4	8X14=R7 3/4
8K19=R8	Right (R)	1/2"-20	8	8X14=R8

Technical Data

Reference Number	8K19	8K19	8K19	8K19
Size	6 3/4	7 1/4	7 3/4	8
Weight	ca. 185 g	ca. 250 g	ca. 280 g	ca. 290 g

Spare parts for passive system hands

8X14 System Inner Hand

Article number	For hand size	Side
8X14=L6 3/4	6 3/4	Left (L)
8X14=L7 1/4	7 1/4	Left (L)
8X14=L7 3/4	7 3/4	Left (L)
8X14=L8	8	Left (L)
8X14=R6 3/4	6 3/4	Right (R)
8X14=R7 1/4	7 1/4	Right (R)
8X14=R7 3/4	7 3/4	Right (R)
8X14=R8	8	Right (R)

Technical Data

Reference Number	8X14
Complete with	finger support in the little and ring finger and 9S187 Retainer Ring

9S15 Retainer Ring, narrow

Article number	For hand size	Ø
9S15=42	6 3/4	42

9S187 Retainer Ring, wide

Article number	For hand size
9S187=7 1/4	7 1/4
9S187=7 3/4	7 3/4, 8

Technical Data

Article number	9S187=7 1/4	9S187=7 3/4
for	8X14 System Inner Hands	8X14 System Inner Hands

9S6 Finger and Thumb Tip

Article number	For hand size
9S6	6 3/4, 7 1/4, 7 3/4 and 8

9S67 Chassis

With threaded stud

Article number	Side	Ø	Threaded stud	for
9S67=L40	Left (L)	40 mm	M12x1,5	8K18=L6 3/4
9S67=L44-N	Left (L)	44 mm	M12x1,5	8K18=L7 1/4
9S67=L48-N	Left (L)	48 mm	M12x1,5	8K18=L7 3/4 8K18=L8
9S67=R40	Right (R)	40 mm	M12x1,5	8K18=R6 3/4
9S67=R44-N	Right (R)	44 mm	M12x1,5	8K18=R7 1/4
9S67=R48-N	Right (R)	48 mm	M12x1,5	8K18=R7 3/4 8K18=R8

9S65 Chassis

With threaded stud

Article number	Side	Ø	Threaded stud	for
9S65=L40	Left (L)	40 mm	1/2"–20	8K19=L6 3/4
9S65=L44-N	Left (L)	44 mm	1/2"–20	8K19=L7 1/4
9S65=L48-N	Left (L)	48 mm	1/2"–20	8K19=L7 3/4 8K19=L8
9S65=R40	Right (R)	40 mm	1/2"–20	8K19=R6 3/4
9S65=R44-N	Right (R)	44 mm	1/2"–20	8K19=R7 1/4
9S65=R48-N	Right (R)	48 mm	1/2"–20	8K19=R7 3/4 8K19=L8

501T52=M3x6 Flange Button Head Socket Screw

501T52=M3x8 Flange Button Head Socket Screw

Accessories for passive system hands

9E94 Lamination Ring

Article number	For hand size	Ø
9E94=44	6 3/4	44 mm
9E94=50	7 1/4, 7 3/4, 8	50 mm

Chassis

For long below-elbow and through-wrist residual limbs

Article number	For hand size	Ø	Suitable for
9S96=40	6 3/4	40 mm	9E94 Lamination Ring
9S184=44-N	7 1/4	44 mm	9E94 Lamination Ring
9S184=48-N	7 3/4, 8	48 mm	9E94 Lamination Ring

Technical Data

Article number	9S96=40	9S184=44-N	9S184=48-N
for	replacement of the chassis with threaded stud	replacement of the chassis with threaded stud	replacement of the chassis with threaded stud
Suitable for	9E94 Lamination Ring	9E94 Lamination Ring	9E94 Lamination Ring

506G4 Set Screw

(4 set screws are required per chassis)

Article number	For chassis
506G4=M3x5	9S96=40
506G4=M4x5	9S184

8K20 Ottobock System Hand –voluntary opening–

With **perlon cable** through the palm of the hand **(inner pull)**,
with threaded stud and system inner hand

These system hands are suitable for all cable-activated prostheses. They are opened by pulling the cable (active) and close independently with concurrent locking.

Hand sizes:
6 3/4 for children
7 1/4 for adolescents and women
7 3/4 for men
8 for men

647G445

Article number	Side	Threaded stud	Size	Inner hand
8K20=L6 3/4	Left (L)	M12x1,5	6 3/4	8X14=L6 3/4
8K20=L7 1/4	Left (L)	M12x1,5	7 1/4	8X14=L7 1/4
8K20=L7 3/4	Left (L)	M12x1,5	7 3/4	8X14=L7 3/4
8K20=L8	Left (L)	M12x1,5	8	8X14=L8
8K20=R6 3/4	Right (R)	M12x1,5	6 3/4	8X14=R6 3/4
8K20=R7 1/4	Right (R)	M12x1,5	7 1/4	8X14=R7 1/4
8K20=R7 3/4	Right (R)	M12x1,5	7 3/4	8X14=R7 3/4
8K20=R8	Right (R)	M12x1,5	8	8X14=R8

Technical Data

Reference Number	8K20	8K20	8K20	8K20
Size	6 3/4	7 1/4	7 3/4	8
Weight	ca. 215 g	ca. 300 g	ca. 330 g	ca. 340 g

The prosthetic glove must be ordered separately. See pages 172-174, 214-216

647G445

8K22 Single-Cable System Hand

With **perlon cable** through the back of the hand **(outer pull)**,
with threaded stud and system inner hand

These system hands are suitable for all cable-activated prostheses. They are opened by pulling the cable (active) and close independently with concurrent locking.

Hand sizes:
6 3/4 for children
7 1/4 for adolescents and women
7 3/4 for men
8 for men

Article number	Side	Threaded stud	Size	Inner hand
8K22=L6 3/4	Left (L)	M12x1,5	6 3/4	8X18=L6 3/4
8K22=L7 1/4	Left (L)	M12x1,5	7 1/4	8X14=L7 1/4
8K22=L7 3/4	Left (L)	M12x1,5	7 3/4	8X14=L7 3/4
8K22=L8	Left (L)	M12x1,5	8	8X14=L8
8K22=R6 3/4	Right (R)	M12x1,5	6 3/4	8X14=R6 3/4
8K22=R7 1/4	Right (R)	M12x1,5	7 1/4	8X14=R7 1/4
8K22=R7 3/4	Right (R)	M12x1,5	7 3/4	8X14=R7 3/4
8K22=R8	Right (R)	M12x1,5	8	8X14=R8

Technical Data

Reference Number	8K22	8K22	8K22	8K22
Size	6 3/4	7 1/4	7 3/4	8
Weight	ca. 215 g	ca. 300 g	ca. 330 g	ca. 340 g

The prosthetic glove must be ordered separately. See pages 172-174, 214-216

8K21 Single-Cable System Hand

With **steel cable** through the palm of the hand **(inner pull)**,
with threaded stud and system inner hand

These system hands are suitable for all cable-activated prostheses. They are opened by pulling the cable (active) and close independently with concurrent locking.

Hand sizes:
7 1/4 for adolescents and women
7 3/4 for men
8 for men

Article number	Side	Threaded stud	Size	Inner hand
8K21=L7 1/4	Left (L)	1/2"-20	7 1/4	8X14=L7 1/4
8K21=L7 3/4	Left (L)	1/2"-20	7 3/4	8X14=L7 3/4
8K21=L8	Left (L)	1/2"-20	8	8X14=L8
8K21=R7 1/4	Right (R)	1/2"-20	7 1/4	8X14=R7 1/4
8K21=R7 3/4	Right (R)	1/2"-20	7 3/4	8X14=R7 3/4
8K21=R8	Right (R)	1/2"-20	8	8X14=R8

Technical Data

Reference Number	8K21	8K21	8K21
Size	7 1/4	7 3/4	8
Weight	ca. 300 g	ca. 330 g	ca. 340 g

The prosthetic glove must be ordered separately. See pages 172-174, 214-216

647G445

647G445

8K23 Single-Cable System Hand

With **steel cable** through the back of the hand **(outer pull)**,
with threaded stud and system inner hand

These system hands are suitable for all cable-activated prostheses. They are opened by pulling the cable (active) and close independently with concurrent locking.

Hand sizes:
6 3/4 for children
7 1/4 for adolescents and women
7 3/4 for men
8 for men

Article number	Side	Threaded stud	Size	Inner hand
8K23=L6 3/4	Left (L)	1/2"-20	6 3/4	8X14=L6 3/4
8K23=L7 1/4	Left (L)	1/2"-20	7 1/4	8X14=L7 1/4
8K23=L7 3/4	Left (L)	1/2"-20	7 3/4	8X18=R8 1/4
8K23=L8	Left (L)	1/2"-20	8	8X14=L8
8K23=R6 3/4	Right (R)	1/2"-20	6 3/4	8X14=R6 3/4
8K23=R7 1/4	Right (R)	1/2"-20	7 1/4	8X14=R7 1/4
8K23=R7 3/4	Right (R)	1/2"-20	7 3/4	8X14=R7 3/4
8K23=R8	Right (R)	1/2"-20	8	8X14=R8

Technical Data

Reference Number	8K23	8K23	8K23	8K23
Size	6 3/4	7 1/4	7 3/4	8
Weight	ca. 215 g	ca. 300 g	ca. 330 g	ca. 340 g

The prosthetic glove must be ordered separately. See pages 172-174, 214-216

8K24 Double-Cable System Hand

With **perlon cable** through the palm of the hand **(inner pull)**,
with threaded stud and system inner hand

The hand closes following a deliberate pull of the cable. A subsequent adjustment pull increases the grip force and locks in any grip position (active). Through renewed activation of the cable, the hand becomes released and opens independently (double cable).

Hand sizes:
6 3/4 for children
7 1/4 for adolescents and women
7 3/4 for men
8 for men

647G446

Article number	Side	Threaded stud	Size	Inner hand
8K24=L7 1/4	Left (L)	M12x1,5	7 1/4	8X14=L7 1/4
8K24=L7 3/4	Left (L)	M12x1,5	7 3/4	8X14=L7 3/4
8K24=L8	Left (L)	M12x1,5	8	8X14=L8
8K24=R7 1/4	Right (R)	M12x1,5	7 1/4	8X14=R7 1/4
8K24=R7 3/4	Right (R)	M12x1,5	7 3/4	8X14=R7 3/4
8K24=R8	Right (R)	M12x1,5	8	8X14=R8

Technical Data

Reference Number	8K24	8K24	8K24
Size	7 1/4	7 3/4	8
Weight	ca. 340 g	ca. 370 g	ca. 380 g, ca. 380 g.

The prosthetic glove must be ordered separately. See pages 172-174, 214-216

647G446

8K26 Double-Cable System Hand

With **perlon cable** through the back of the hand **(outer pull)**,
with threaded stud and system inner hand

The hand closes following a deliberate pull of the cable. A subsequent adjustment pull increases the grip force and locks in any grip position (active). Through renewed activation of the cable, the hand becomes released and opens independently (double cable).

Hand sizes:

6 3/4	for children
7 1/4	for adolescents and women
7 3/4	for men
8	for men

Article number	Side	Threaded stud	Size	Inner hand
8K26=L7 1/4	Left (L)	M12x1,5	7 1/4	8X14=L7 1/4
8K26=L7 3/4	Left (L)	M12x1,5	7 3/4	8X14=L7 3/4
8K26=L8	Left (L)	M12x1,5	8	8X14=L8
8K26=R7 1/4	Right (R)	M12x1,5	7 1/4	8X14=R7 1/4
8K26=R7 3/4	Right (R)	M12x1,5	7 3/4	8X14=R7 3/4
8K26=R8	Right (R)	M12x1,5	8	8X14=R8

Technical Data

Reference Number	8K26	8K26	8K26
Size	7 1/4	7 3/4	8
Weight	ca. 340 g	ca. 370 g	ca. 380 g

The prosthetic glove must be ordered separately. See pages 172-174, 214-216

8K27 Double-Cable System Hand

With **steel cable** through the back of the hand **(outer pull)**,
with threaded stud and system inner hand

The hand closes following a deliberate pull of the cable. A subsequent adjustment pull increases the grip force and locks in any grip position (active). Through renewed activation of the cable, the hand becomes released and opens independently (double cable).

Hand sizes:
6 3/4 for children
7 1/4 for adolescents and women
7 3/4 for men
8 for men

647G446

Article number	Side	Threaded stud	Size	Inner hand
8K27=L7 1/4	Left (L)	1/2"-20	7 1/4	8X14=L7 1/4
8K27=L7 3/4	Left (L)	1/2"-20	7 3/4	8X14=L7 3/4
8K27=L8	Left (L)	1/2"-20	8	8X14=L8
8K27=R7 1/4	Right (R)	1/2"-20	7 1/4	8X14=R7 1/4
8K27=R7 3/4	Right (R)	1/2"-20	7 3/4	8X14=R7 3/4
8K27=R8	Right (R)	1/2"-20	8	8X14=R8

Technical Data

Reference Number	8K27	8K27	8K27
Size	7 1/4	7 3/4	8
Weight	ca. 340 g	ca. 370 g	ca. 380 g

The prosthetic glove must be ordered separately. See pages 172-174, 214-216

Spare parts for cable system hands

8X14 System Inner Hand

Article number	For hand size	Side
8X14=L6 3/4	6 3/4	Left (L)
8X14=L7 1/4	7 1/4	Left (L)
8X14=L7 3/4	7 3/4	Left (L)
8X14=L8	8	Left (L)
8X14=R6 3/4	6 3/4	Right (R)
8X14=R7 1/4	7 1/4	Right (R)
8X14=R7 3/4	7 3/4	Right (R)
8X14=R8	8	Right (R)

Technical Data

Reference Number	8X14
Complete with	finger support in the little and ring finger and 9S187 Retainer Ring

9S15 Retainer Ring, narrow

Article number	For hand size	Ø
9S15=42	6 3/4	42

9S187 Retainer Ring, wide

Article number	For hand size
9S187=7 1/4	7 1/4
9S187=7 3/4	7 3/4, 8

Technical Data

Article number	9S187=7 1/4	9S187=7 3/4
for	8X14 System Inner Hands	8X14 System Inner Hands

Chassis

With threaded stud

Article number	Ø	Threaded stud	for
9S10=40	40 mm	M12x1,5	8K18=L/R6 3/4 8K20=L/R6 3/4 8K22=L/R6 3/4 8K24=L/R6 3/4 8K26=L/R6 3/4
9S166=44-N	44 mm	M12x1,5	8K18=L/R7 1/4 8K20=L/R7 1/4 8K22=L/R7 1/4 8K24=L/R7 1/4 8K26=L/R7 1/4
9S166=48-N	48 mm	M12x1,5	8K18=L/R7 3/4 8K18=L/R8 8K20=L/R7 3/4 8K20=L/R8 8K22=L/R7 3/4 8K22=L/R8 8K24=L/R7 3/4 8K24=L/R8 8K26=L/R7 3/4 8K26=L/R8
9S52=40	40 mm	1/2"–20	8K19=L/R6 3/4 8K23=L/R6 3/4 8K27=L/R6 3/4
9S185=44-N	44 mm	1/2"–20	8K19=L/R7 1/4 8K21=L/R7 1/4 8K23=L/R7 1/4 8K27=L/R7 1/4
9S185=48-N	48 mm	1/2"–20	8K19=L/R7 3/4 8K19=L/R8 8K21=L/R7 3/4 8K21=L/R8 8K23=L/R7 3/4 8K23=L/R8 8K27=L/R7 3/4 8K27=L/R8

9S6 Finger and Thumb Tip

Article number	For hand size
9S6	6 3/4, 7 1/4, 7 3/4 and 8

21A8 Suspension Rosette

21A17=3.8x1000 Cable-Control Unit Spiral

Article number	Ø
21A17=3.8x1000	3.8 mm

Accessories for cable system hands

9E94 Lamination Ring

Article number	For hand size	Ø
9E94=44	6 3/4	44 mm
9E94=50	7 1/4, 7 3/4, 8	50 mm

Chassis

For long below-elbow and through-wrist residual limbs

Article number	For hand size	Ø	Suitable for
9S96=40	6 3/4	40 mm	9E94 Lamination Ring
9S184=44-N	7 1/4	44 mm	9E94 Lamination Ring
9S184=48-N	7 3/4, 8	48 mm	9E94 Lamination Ring

Technical Data

Article number	9S96=40	9S184=44-N	9S184=48-N
for	replacement of the chassis with threaded stud	replacement of the chassis with threaded stud	replacement of the chassis with threaded stud
Suitable for	9E94 Lamination Ring	9E94 Lamination Ring	9E94 Lamination Ring

506G4 Set Screw

(4 set screws are required per chassis)

Article number	For chassis
506G4=M3x5	9S96=40
506G4=M4x5	9S184

501T52=M3x6 Flange Button Head Socket Screw

501T52=M3x8 Flange Button Head Socket Screw

10A43 Attachment Plate with stud

For connecting **a cable-activated hook or system hand** to the **10V8 Wrist Unit**

Article number	Ø	Interior thread
10A43=M12x1.5	50 mm	M12x1,5
10A43=1/2"–20	50 mm	1/2"–20

Technical Data

Reference Number	10A43
Material	stainless steel
Complete with	interior thread

10A44 Threaded Stud

For connecting a hook to the **10V9, 10V10** or **10V25** Wrist Units without ratchet

Article number	Interior thread
10A44=M12x1.5	M12x1,5
10A44=1/2"-20	1/2"-20

Technical Data

Reference Number	10A44
Material	stainless steel
Complete with	interior thread M12x1,5

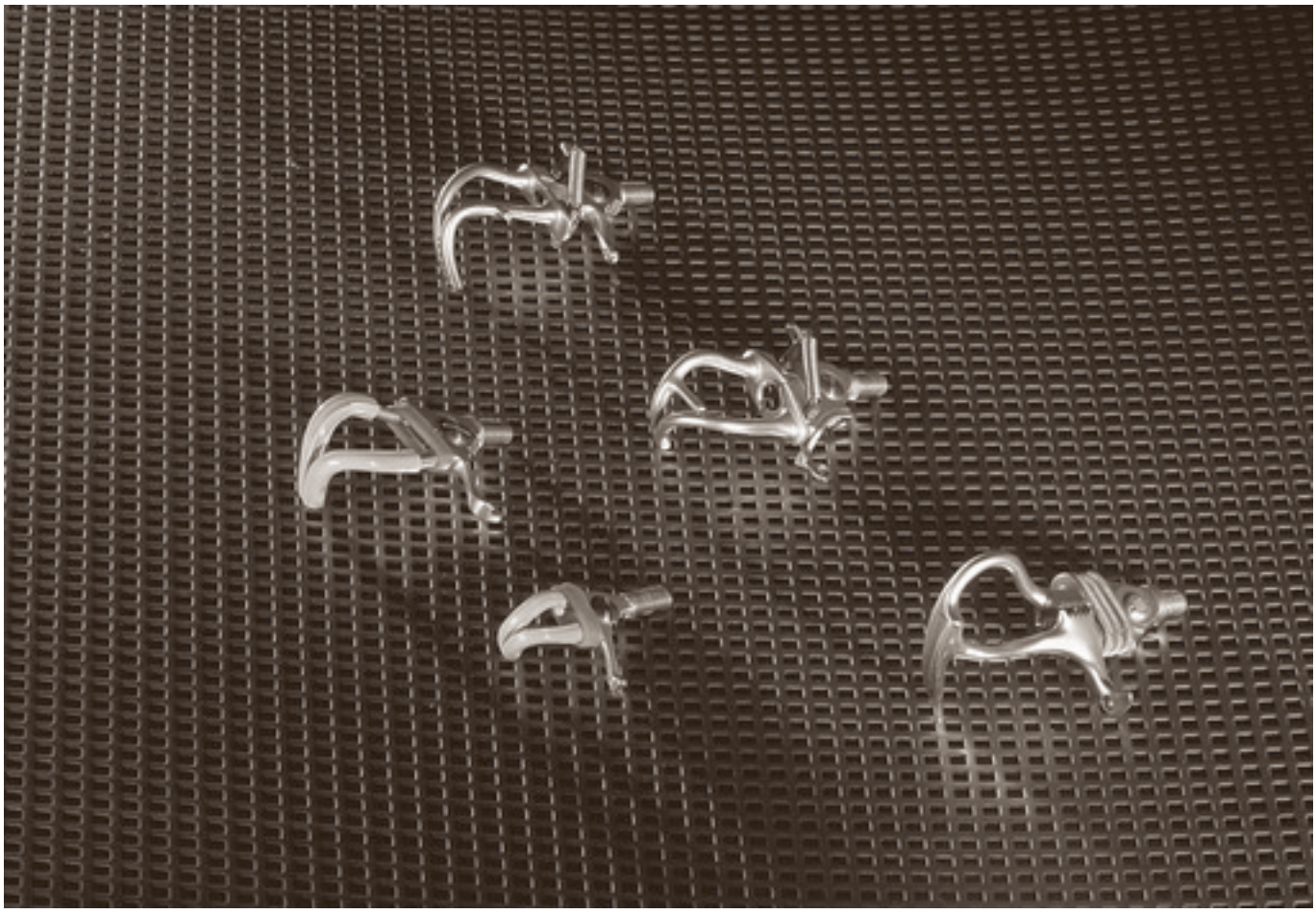
10A56 Attachment Plate with short stud

attachment plate Ø 50 mm,
For connecting **a cable-activated hook or system hand** to the **10V30 Wrist Unit**

Article number	Ø	Interior thread
10A56=M12x1.5	20 mm	M12x1,5
10A56=1/2"-20	20 mm	1/2"-20

Technical Data

Reference Number	10A56
Material	stainless steel
Complete with	interior thread M12x1,5



Cable-activated Hooks

In cable-activated prostheses, a hook, instead of a prosthetic hand, can also be used as the terminal device. It is opened by pulling a harness 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 elements for attaching the cable-activated hooks to the wrist construction are described at the end of this section.

Cable-activated Hooks for Children and Adolescents

647G443

10A25 Cable-activated Hook for Children

Article number	Side	Threaded stud
10A25=LM12x1.5	Left (L)	M12x1,5
10A25=RM12x1.5	Right (R)	M12x1,5
10A25=L1/2"-20	Left (L)	1/2"-20
10A25=R1/2"-20	Right (R)	1/2"-20

Technical Data

Reference Number	10A25
Material	aluminum alloy

Connecting elements for cable-activated hooks are listed on pages 153, 155-156, 165-167, 183-184.

647G443

10A37 Cable-Activated Hook for Youths

Article number	Side	Threaded stud
10A37=LM12x1.5	Left (L)	M12x1,5
10A37=RM12x1.5	Right (R)	M12x1,5
10A37=L1/2"-20	Left (L)	1/2"-20
10A37=R1/2"-20	Right (R)	1/2"-20

Technical Data

Reference Number	10A37
Material	aluminum alloy

Connecting elements for cable-activated hooks are listed on pages 153, 155-156, 165-167, 183-184.

Accessories for 10A25 and 10A37

10Y1 Finger Cover

Article number	10Y1
Material	Plastic
Colour	skin colour

10Y8 Finger Cover

Article number	10Y8
Material	Plastic
Colour	skin colour
Scope of Delivery	1 set comprises one cover with or without knobs

10Y13 Rubber Band

Cable-Activated Hooks for Adults

647G204

10A70 MovoHook 2Grip

Article number	Side	Threaded stud
10A70=LM12X1.5	Left (L)	M12X1.5
10A70=RM12X1.5	Right (R)	M12X1.5
10A70=L1/2"-20	Left (L)	1/2"-20
10A70=R1/2"-20	Right (R)	1/2"-20

Technical Data

Reference Number	10A70
Weight	120 g
Material	Aluminium
Opening width	100 mm

Connecting elements for cable-activated hooks are listed on pages 153, 155-156, 165-167, 183-184.

647G204

10A71 MovoHook 2Grip

This coating offers superior gripping security, especially in instances where metal has a tendency to be very slippery on certain materials, such as paper or glass. Furthermore, the coating does not adhere to textiles, so sliding through a sleeve while getting dressed or undressed does not pose a problem. The material is hygienically clean. Resistance to chemicals can be tested on a case-by-case basis upon request. The coating is permanent and inconspicuous. Finger covers are not required, providing yet another advantage.

Article number	Side	Threaded stud
10A71=LM12X1.5	Left (L)	M12X1.5
10A71=RM12X1.5	Right (R)	M12X1.5
10A71=L1/2"-20	Left (L)	1/2"-20
10A71=R1/2"-20	Right (R)	1/2"-20

Technical Data

Reference Number	10A71
Weight	120 g
Material	Aluminium with branch coating for an even better grip
Opening width	100 mm

Connecting elements for cable-activated hooks are listed on pages 153, 155-156, 165-167, 183-184.

10A80 MovoHook 2Grip

Article number	Side	Threaded stud
10A80=LM12X1.5	Left (L)	M12X1.5
10A80=RM12X1.5	Right (R)	M12X1.5
10A80=L1/2"-20	Left (L)	1/2"-20
10A80=R1/2"-20	Right (R)	1/2"-20

Technical Data

Reference Number	10A80
Weight	250 g
Material	Stainless steel
Opening width	100 mm

Connecting elements for cable-activated hooks are listed on pages 153, 155-156, 165-167, 183-184.

647G204

10A81 MovoHook 2Grip

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 in instances where metal has a tendency to be very slippery on certain materials, such as paper or glass. Furthermore, the coating does not adhere to textiles, so sliding through a sleeve while getting dressed or undressed does not pose a problem. The material is hygienically clean. Resistance to chemicals can be tested on a case-by-case basis upon request. The coating is permanent and inconspicuous. Finger covers are not required, providing yet another advantage.

Article number	Side	Threaded stud
10A81=LM12X1.5	Left (L)	M12X1.5
10A81=RM12X1.5	Right (R)	M12X1.5
10A81=L1/2"-20	Left (L)	1/2"-20
10A81=R1/2"-20	Right (R)	1/2"-20

Technical Data

Reference Number	10A81
Weight	250 g
Material	Stainless steel with branch coating for an even better grip
Opening width	100 mm

Connecting elements for cable-activated hooks are listed on pages 153, 155-156, 165-167, 183-184.

647G204

647G442

10A11 Cable-activated Hook for Adults

Standard hook

Article number	Side	Threaded stud
10A11=LM12x1.5	Left (L)	M12x1,5
10A11=RM12x1.5	Right (R)	M12x1,5
10A11=L1/2"-20	Left (L)	1/2"-20
10A11=R1/2"-20	Right (R)	1/2"-20

Technical Data

Reference Number	10A11
Material	aluminum alloy

Connecting elements for cable-activated hooks are listed on pages 153, 155-156, 165-167, 183-184.

647G442

10A60 Cable-activated Hook for Adults

Article number	Side	Threaded stud
10A60=LM12x1.5	Left (L)	M12x1,5
10A60=RM12x1.5	Right (R)	M12x1,5
10A60=L1/2"-20	Left (L)	1/2"-20
10A60=R1/2"-20	Right (R)	1/2"-20

Technical Data

Reference Number	10A60
Material	stainless steel

Connecting elements for cable-activated hooks are listed on pages 153, 155-156, 165-167, 183-184.

647G442

10A18 Cable-activated Hook for Adults

Standard hook, model 58

Article number	Side	Threaded stud
10A18=LM12x1.5	Left (L)	M12x1,5
10A18=RM12x1.5	Right (R)	M12x1,5
10A18=L1/2"-20	Left (L)	1/2"-20
10A18=R1/2"-20	Right (R)	1/2"-20

Technical Data

Reference Number	10A18
Material	aluminum alloy

Wrist connections for cable-activated hooks are listed on page

10A12 All-purpose Hook

Article number	Side	Threaded stud
10A12=L	Left (L)	ohne
10A12=R	Right (R)	ohne
10A12=LM12x1.5	Left (L)	M12x1,5
10A12=RM12x1.5	Right (R)	M12x1,5
10A12=L1/2"-20	Left (L)	1/2"-20
10A12=R1/2"-20	Right (R)	1/2"-20

Technical Data

Reference Number	10A12
Material	stainless steel

Connecting elements for cable-activated hooks are listed on pages 153, 155-156, 165-167, 183-184.

647G442

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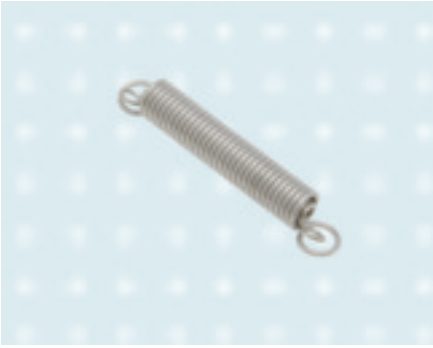
Spare parts for cable-activated hooks

10Y1 Finger Cover

Article number	**10Y1**
Material	Plastic
Colour	skin colour



10Y2 Double Spring

10Y12 Spring

3 pieces are required to complete renew all springs.

Article number	**10Y12**
for	10A12 All-purpose Hook

Accessories for cable-activated hooks

21A13 Connection Piece for Cable-Activated Hook

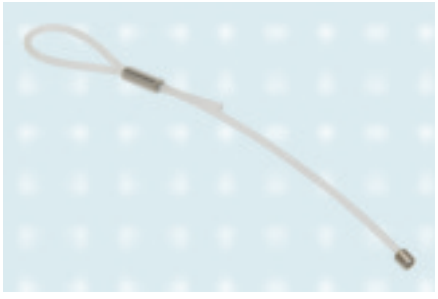
Article number	for	Package
21A13=1	21A7	Perlon Cable
21A13=2	21A7	Steel Cable
21A13=3	10Y32	Perlon Cable
21A13=4	10Y32	Perlon Cable

Technical Data

Reference Number	21A13
Complete with	With 21A9 Connector Screw and 21A10 Washer
Suitable for	10A11, 10A12 and 10A60

21A14 Connection Piece

Article number	21A14
for	10A18, 10A25 and 10A37 in conjunction with 21A19/20=*
Complete with	21A8 Clamp Sleeve



21A44 Connection Piece for Hook

Article number	21A44
for	10A12, 10A18, 10A25 and 10A37 in conjunction with 21A35/36=*

21A8 Suspension Rosette

21A9 Connector Screw

21A10 Washer

10A43 Attachment Plate with stud

For connecting **a cable-activated hook or system hand** to the **10V8 Wrist Unit**

Article number	Ø	Interior thread
10A43=M12x1.5	50 mm	M12x1,5
10A43=1/2"–20	50 mm	1/2"–20

Technical Data

Reference Number	10A43
Material	stainless steel
Complete with	interior thread

10A44 Threaded Stud

For connecting a hook to the **10V9, 10V10** or **10V25** Wrist Units without ratchet

Article number	Interior thread
10A44=M12x1.5	M12x1,5
10A44=1/2"-20	1/2"-20

Technical Data

Reference Number	10A44
Material	stainless steel
Complete with	interior thread M12x1,5

10A56 Attachment Plate with short stud

attachment plate Ø 50 mm,
For connecting **a cable-activated hook or system hand** to the **10V30 Wrist Unit**

Article number	Ø	Interior thread
10A56=M12x1.5	20 mm	M12x1,5
10A56=1/2"-20	20 mm	1/2"-20

Technical Data

Reference Number	10A56
Material	stainless steel
Complete with	interior thread M12x1,5

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Implements

10A2 All-purpose Clamp

Article number	Complete with	BPL-Pos.
10A2	standard attachment	BPL-Pos. 2.01.14.04

10A3 All-purpose Hook

Nickel-plated

Article number	Complete with
10A3	standard attachment

647G455

10A4 All-purpose Ring

Nickel-plated

Article number	Complete with
10A4	standard attachment

647G455

10A8 Movable All-purpose Ring

Nickel-plated

Article number	Complete with
10A8	standard attachment

647G455

10V15 Standard Connector

for accommodating **work tools** with a standard stud (Ø 13 mm) and for connecting to wrist units with or without ratchets

Article number	Complete with
10V15	attachment plate and stud

647G455

11S33 Wrist Lock with Standard Connector

For accommodating work tools with a standard stud (Ø 13 mm) and attaching to the Ottobock System Wrist Unit

Article number	11S33=40	11S33=44	11S33=48
Outer Ø	40 mm	44 mm	48 mm

647G455

10A22 Hand Brush

Article number	Complete with	BPL-Pos.
10A22	two suction cups	BPL-Pos. 2.01.14.48

Movo Prosthetic Gloves

8S6=170x65 Prosthetic Glove for Children

For hand sizes 6 3/4, with long sleeve.
Standard prosthetic glove available in 18 different shades

Article number	For hand size	Side	Sleeve length
8S6=170x65L	6 3/4	Left (L)	300 mm
8S6=170x65R	6 3/4	Right (R)	300 mm

When ordering, please include the colour code

- In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
- To order them, please enter an **N** before the =:
  example 8S11=210x78xL4 standard glove
  8S11**N**=210x78xL4 MyoSkin Natural
  Please ask our customer service for the available colours.

  The entire range of colours for Skin Natural models comprises of six colours. The new 646M47 colour scale helps when selecting the right pattern.

8S4=190x76 Prosthetic Glove for Adolescents

For hand sizes 7 1/4, with short sleeve.
Standard prosthetic glove available in 18 different shades

Article number	For hand size	Side	Sleeve length
8S4=190x76L	7 1/4	Left (L)	215 mm
8S4=190x76R	7 1/4	Right (R)	215 mm

When ordering, please include the colour code

- In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
- To order them, please enter an **N** before the =:
  example 8S11=210x78xL4 standard glove
  8S11**N**=210x78xL4 MyoSkin Natural
  Please ask our customer service for the available colours.

  The entire range of colours for Skin Natural models comprises of six colours. The new 646M47 colour scale helps when selecting the right pattern.

8S4=210x78 Prosthetic Glove for Men

For hand sizes 7 3/4, with short sleeve.
Standard prosthetic glove available in 18 different shades

Article number	For hand size	Side	Sleeve length
8S4=210x78L	7 3/4	Left (L)	220 mm
8S4=210x78R	7 3/4	Right (R)	220 mm

When ordering, please include the colour code

- In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
- To order them, please enter an **N** before the =:
  example 8S11=210x78xL4 standard glove
  8S11**N**=210x78xL4 MyoSkin Natural
  Please ask our customer service for the available colours.

  The entire range of colours for Skin Natural models comprises of six colours. The new 646M47 colour scale helps when selecting the right pattern.

8S4=220x80 Prosthetic Glove for Men

For hand sizes 8, with short sleeve.
Standard prosthetic glove available in 18 different shades

Article number	For hand size	Side	Sleeve length
8S4=220x80L	8	Left (L)	225 mm
8S4=220x80R	8	Right (R)	225 mm

When ordering, please include the colour code

- In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
- To order them, please enter an **N** before the =:
  example 8S11=210x78xL4 standard glove
  8S11**N**=210x78xL4 MyoSkin Natural
  Please ask our customer service for the available colours.

  The entire range of colours for Skin Natural models comprises of six colours. The new 646M47 colour scale helps when selecting the right pattern.

8S5=195x78 Prosthetic Glove for Women

For hand sizes 7 1/4, with long sleeve.
Standard prosthetic glove available in 18 different shades

Article number	For hand size	Side	Sleeve length
8S5=195x78L	7 1/4	Left (L)	340 mm
8S5=195x78R	7 1/4	Right (R)	340 mm

When ordering, please include the colour code

In addition to the standard prosthetic glove, Otto Bock also offers additional models of 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.

To order them, please enter an **N** before the =:
example 8S11=210x78xL4 standard glove
8S11**N**=210x78xL4 MyoSkin Natural
Please ask our customer service for the available colours.

The entire range of colours for Skin Natural models is covered with six colours. The new 646M47 colour scale helps when selecting the right pattern.

Movo Wrist Units

647G375

10V39 MovoWrist Flex

Enables flexion and extension of a cable-controlled or passive terminal device;
Can be locked in 5 positions from −15° to +45°
and rotation over 360° with 20 different positions
Total length: 33 mm, of which 12 mm is distally visible

Article number	10V39=45	10V39=50
Outer Ø	45 mm	50 mm

Accessories for MovoWrist Flex

10A30 Adapter

For connecting a terminal device to a MovoWrist Flex

Article number	10A30=M12x1.5	10A30=1/2“-20	10A30=1
for	Terminal devices with metric thread	Terminal devices with inch thread	Working tools with standard stud

11D1 Laminationring

Please note the diameter of the joint.

11D1=45
11D1=50

Article number	11D1=45	11D1=50
Diameter	45 mm	50 mm
for	MovoWrist Flex 10V39	

Wrist Units

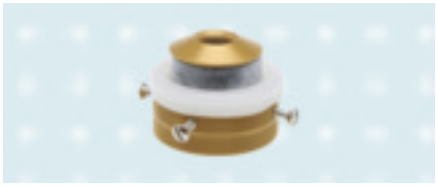
10V18 Ottobock Wrist Unit

Article number	10V18=28	10V18=34	10V18=40	10V18=45	10V18=50
Outer Ø	28 mm	34 mm	40 mm	45 mm	50 mm
Thread	M12x1,5				
Complete with	interior thread and cylindrical lamination ring				

647G453

10V36 Ottobock Wrist Unit

Article number	10V36=34	10V36=45	10V36=50
Outer Ø	34 mm	45 mm	50 mm
Thread	1/2"–20		
Complete with	interior thread and cylindrical lamination ring		



647G453

10V32 Ottobock Ball Wrist Unit

Article number	10V32=40	10V32=45	10V32=50
Outer Ø	40 mm	45 mm	50 mm
Thread	M12x1,5		
Complete with	interior thread and cylindrical lamination ring		

647G453

10V34 Ottobock Ball Wrist Unit

Article number	10V34=45	10V34=50
Outer Ø	45 mm	50 mm
Thread	1/2"-20	
Complete with	interior thread and cylindrical lamination ring	

647G453

10V9 Wrist Unit without Ratchet

Joint Piece

Article number	10V9
Material	plastic
Diameter	50 mm

- For connecting to a system hand to 10A13=50 attachment with stud or 10A44 Threaded Stud
- For connecting to hook with 10A44 Threaded Stud

647G452

647G452

10V10 Wrist Unit without Ratchet

Joint Piece

Article number	10V10
Material	light metal
Diameter	50 mm

- For connecting to a system hand with 10A44 Threaded Stud
- For connecting to hook with 10A44 Threaded Stud

647G452

10V25 Wrist Unit without Ratchet

With flexion device

Article number	10V25
Diameter	50 mm
Complete with	Flexion Device
Consists of:	10V10 Wrist Unit without ratchet + 10V26 Flexion Device

- For connecting to the system hand with 10A44 Threaded Stud
- For connecting to hook with 10A44 Threaded Stud

647G451

10V8 Wrist Unit – ratchet type rotation

Article number	10V8
Diameter	50 mm
Complete with	lock lever

- Connection to hand with 10A43 Attachment Plate with threaded stud
- Connection to hook with 10A43 Attachment Plate with threaded stud

647G451

10V30 Wrist Unit – ratchet type rotation, short

Article number	10V30
Diameter	50 mm
for	long below-elbow residual limbs
Complete with	lock lever

- Connection to hand with 10A56 Attachment Plate with short threaded stud
- Connection to hook with 10A56 Attachment Plate with short threaded stud

Spare parts for wrist units

11D20 Cylindrical Lamination Ring

Article number	11D20=28	11D20=34	11D20=40	11D20=45	11D20=50
Outer Ø	28 mm	34 mm	40 mm	45 mm	50 mm
for	10V18=28	10V18=34	10V18=40 10V32=40	10V18=45 10V32=45 10V34=45 10V36=45	10V8 10V9 10V10 10V18=50 10V32=50 10V34=50 10V36=50

501S40 Oval Head Screw (sheet metal screw)

Article number	For lamination ring Ø
501S40=3.5x9.5	28, 34 mm
501S40=3.5x13	40, 45, 50 mm

11D27 Rubber Friction Ring

Article number	For lamination ring Ø	Ø
11D27=25	28 mm	25 mm
11D27=32	34, 40, 45, 50 mm	32 mm

Technical Data

Article number	11D27=25	11D27=32
for	10V18 and 10V36	10V18 and 10V36

501S27 Slotted Oval Head Screw

Article number	501S27=M3x8
Material	
for	10V8 10V9 10V10 10V25

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Accessories for wrist units

10V26 Flexion Device

For subsequent installation into 10V9/10V10 Wrist Unit without ratchet or 10V8 Wrist Unit with ball ratchet (not for 10V30)

Article number	10V26
for	10V8 10V9 10V10

Connecting elements for system hands

10A43 Attachment Plate with stud

For connecting **a cable-activated hook or system hand** to the **10V8 Wrist Unit**

Article number	Ø	Interior thread
10A43=M12x1.5	50 mm	M12x1,5
10A43=1/2"–20	50 mm	1/2"–20

Technical Data

Reference Number	10A43
Material	stainless steel
Complete with	interior thread

10A56 Attachment Plate with short stud

attachment plate Ø 50 mm,
For connecting **a cable-activated hook or system hand** to the **10V30 Wrist Unit**

Article number	Ø	Interior thread
10A56=M12x1.5	20 mm	M12x1,5
10A56=1/2"-20	20 mm	1/2"-20

Technical Data

Reference Number	10A56
Material	stainless steel
Complete with	interior thread M12x1,5

10A44 Threaded Stud

For connecting a hook to the **10V9, 10V10** or **10V25** Wrist Units without ratchet

Article number	Interior thread
10A44=M12x1.5	M12x1,5
10A44=1/2"-20	1/2"-20

Technical Data

Reference Number	10A44
Material	stainless steel
Complete with	interior thread M12x1,5

Connecting elements for cable-activated hooks and implements

10A56 Attachment Plate with short stud

attachment plate Ø 50 mm,
For connecting **a cable-activated hook or system hand** to the **10V30 Wrist Unit**

Article number	Ø	Interior thread
10A56=M12x1.5	20 mm	M12x1,5
10A56=1/2"-20	20 mm	1/2"-20

Technical Data

Reference Number	10A56
Material	stainless steel
Complete with	interior thread M12x1,5

10A43 Attachment Plate with stud

For connecting **a cable-activated hook or system hand** to the **10V8 Wrist Unit**

Article number	Ø	Interior thread
10A43=M12x1.5	50 mm	M12x1,5
10A43=1/2"–20	50 mm	1/2"–20

Technical Data

Reference Number	10A43
Material	stainless steel
Complete with	interior thread

10V15 Standard Connector

for accommodating **work tools** with a standard stud (Ø 13 mm) and for connecting to wrist units with or without ratchets

Article number	10V15
Complete with	attachment plate and stud

647G455

Movo Elbow Joints

Elbow Components for Children

647G469

12K19=40 Elbow Set-Up for Children

With manual elbow lock (10 locking positions in 8° increments) and upper arm rotation joint (sickle joint) with lamination ring.
Plastic forearm shell, skin colour, length approx. 250 mm, circumference 210 mm.
The elbow ball is made of skin-coloured plastic.

Article number	Upper arm connection Ø	For hand size	Colour	Length
12K19=40	54 mm	6 3/4	skin-coloured	

Technical Data

Article number	12K19=40
Material	Plastic
Ø-Lamination ring	40 mm

Practical recommendation:

- This joint can also be fitted in conjunction with the 2000 8E51=* Childrens Hand.

647G570

12K12 MovolinoArm Friction

The 12K12 MovolinoArm Friction is available in one size. It is the perfect complement to the current Ottobock product portfolio, since it allows fittings on the right and left side for children 3 to 5 years old. It is compatible with passive, cable-controlled and myoelectric arm prosthesis systems. It weighs only 182g.
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.
Yet another advantage is that the elbow is compatible with the components of the 7.4 Volt Children System.
The MovolinoArm Friction features an impressive design that has a very realistic natural appearance.

The hand adapter of the 12K12 MovolinoArm Friction is naturally compatible with the Electric Hand 2000. The 10A40 Wood Adapter is available for passive prosthetic fittings. The 10V18=34 or 10V36=34 Wrist Unit is compatible with body-powered fittings.

Article number	Upper arm connection Ø	Wrist connection Ø
12K12	43.5 mm	34 mm

Practical recommendation:

- This joint can also be fitted in conjunction with the 2000 8E51=* Childrens Hand.

Spare parts for 12K12 and 12K19

13G21 Lamination Ring Set

Article number	13G21
Consists of:	one lamination ring with lamination dummies and O-Ring

10S18=40 Lamination Ring for Children's Forearm

The 10S18=40 Lamination Ring for Child's Forearm enables an 2000 8E51 Electric Hand to be combined with the 12K19=40 Elbow Set-up for Children. To achieve this, the lamination ring is directly glued into the elbow set-up using 636K18=1 Orthocryl sealing resin compact glue.

Article number	Ø	Elbow Set-Up
10S18=40	33 mm	12K19=40

709Z9 Special Key

The 709Z9 Special Key is used to tighten the counter nut. The counter nut may become damaged when tightening in the vice or, for example, with pliers.

13G8=54 Lamination Ring

21A18 Nylon wire

Article number	Ø	Length	Order by
21A18=2X1	2 mm	1 m	lfm
21A18=2X5	2 mm	5 m	lfm
21A18=2X10	2 mm	10 m	lfm
21A18=2X25	2 mm	25 m	lfm

Accessories for 12K12

11D12=34 Wrist Unit Lamination Ring

For connection with the Children's Hand 2000

Article number	Complete with
11D12=34	copper friction ring, O-Rings and protective cover

10A40 Wood Hand Adapter

for connecting the passive inner hand with the forearm socket

Article number	Complete with
10A40	threaded stud made of plastic, M12x1.5

10V18=34 Ottobock Wrist Unit

Article number	10V18=34
Outer Ø	34 mm
Thread	M12x1,5

10V36=34 Ottobock Wrist Unit

Article number	10V36=34
Outer Ø	34
Thread	1/2"–20

12K42 ErgoArm plus

For cable-controlled prostheses.
With internal infinite-position lock, Automatic Forearm Balance (AFB) and upper arm rotation joint
(sickle joint), with adjustable friction.
Plastic forearm shell, plastic elbow ball, skin colour, 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 infinite-position lock can be unlocked or locked under load in any position.
The Automatic Forearm Balance supports flexion of the joint and enables natural swing characteristics.

Article number	Upper arm connection Ø	For hand size	For lamination ring Ø	Colour
12K42=45	70 mm	6 3/4 – 7 1/4	45 mm	No. 4
12K42=45-1	70 mm	6 3/4 – 7 1/4	45 mm	No. 11
12K42=45-2	70 mm	6 3/4 – 7 1/4	45 mm	No. 15
12K42=50	70 mm	7 3/4 – 8 1/4	50 mm	No. 4
12K42=50-1	70 mm	7 3/4 – 8 1/4	50 mm	No. 11
12K42=50-2	70 mm	7 3/4 – 8 1/4	50 mm	No. 15

Colour roughly corresponds to glove colour according to 646M3 colour swatch

674H437

12K41 ErgoArm

For cable-controlled prostheses.
With internal infinite-position lock and upper arm rotation joint (sickle joint) with adjustable friction.
Plastic forearm shell, plastic elbow ball, skin colour, 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 305 mm. The internal infinite-position lock can be unlocked or locked under load in any position.

Article number	Upper arm connection Ø	For hand size	For lamination ring Ø	Colour
12K41=45	70 mm	6 3/4 – 7 1/4	45 mm	No. 4
12K41=45-1	70 mm	6 3/4 – 7 1/4	45 mm	No. 11
12K41=45-2	70 mm	6 3/4 – 7 1/4	45 mm	No. 15
12K41=50	70 mm	7 3/4 – 8 1/4	50 mm	No. 4
12K41=50-1	70 mm	7 3/4 – 8 1/4	50 mm	No. 11
12K41=50-2	70 mm	7 3/4 – 8 1/4	50 mm	No. 15

Colour roughly corresponds to glove colour according to 646M3 colour swatch

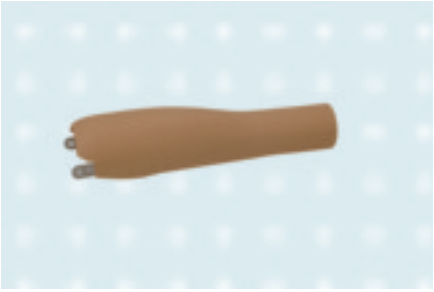
647H438

- Please note that the variants -1 and -2 are fabricated only after receipt of an order and that, for this reason, delivery of such articles will take longer.

Spare parts for 12K42 + 12K41

12K48 Forearm

Article number	Ø	Suitable for
12K48=45	45 mm	12K42=45 12K44=45 12K50=45
12K48=50	50 mm	12K42=50 12K44=50 12K50=50



12K49 Forearm

Article number	Ø	Suitable for
12K49=45	45 mm	12K41=45
12K49=50	50 mm	12K41=50

12A13 Elbow Joint

Article number	Colour
12A13-1	No. 11
12A13-15	No. 15

- Marked articles are available in colour shade no. 11 (please add –1 to the end of the order number) or in colour shade no. 15 (add –2 to the end of the order number).

13G68 Clamp Plate

13Z47 Lamination Ring

13Z48 Ball Cap

Article number	Colour
13Z48-1	No. 11
13Z48-2	No. 15

- Marked articles are available in colour shade no. 11 (please add –1 to the end of the order number) or in colour shade no. 15 (add –2 to the end of the order number).

13Z50 Thread Segment

Article number	Colour
13Z50-1	No. 11
13Z50-2	No. 15

- Marked articles are available in colour shade no. 11 (please add –1 to the end of the order number) or in colour shade no. 15 (add –2 to the end of the order number).

13Z51 Hole Covering

Article number	Colour
13Z5-1	No. 11
13Z5-2	No. 15

- Marked articles are available in colour shade no. 11 (please add –1 to the end of the order number) or in colour shade no. 15 (add –2 to the end of the order number).

13Z52 Spring Telescope

13Z53 Switch Cable

13Z55 Lamination Protection Cover

13Z56 Tongue Cap

Article number	Colour
13Z56-1	No. 11
13Z56-2	No. 15

13Z57 Pressure Piece

Article number	Colour
13Z57-1	No. 11
13Z57-2	No. 15

13Z58 Eccentric

Article number	Colour
13Z58-1	No. 11
13Z58-2	No. 15

13Z59 Lamination Protection Cover

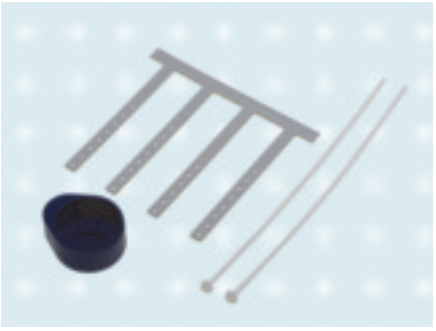
Article number	Colour
13Z59-1	No. 11
13Z59-2	No. 15

501S84=M4x20 Countersunk Head Screw

501S101=M4x12 Countersunk Head Screw

627F13=60x2.5 O-Ring

Accessories for 12K42 + 12K41



743A23 Alignment Aid for ErgoArm

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

21A207 Clamp Stopple Set

The clamp stopple set is used to connect the 12K48=* or 12K49=* ErgoArm Forearm Component to the elastic strap of the 21A35=1 Triple-Control Above-Elbow Harness.

Article number	Consists of:
21A207	10 pieces clamp stopples 10 pieces short threaded fittings 1 piece twist drill Ø 5.5 mm

13Z68 Adapter

Adapter for mounting a 12K50 Ottobock Elbow Component to a Hosmer lamination ring.

Elbow Component with Cable Lock

12K27 Elbow Component

With single-sided, rotatable cable lock (18 locking positions in about 7.2° increments) and upper arm rotation joint (sickle joint) with lamination ring.
Plastic forearm shell, skin colour, length 280 mm, circumference approx. 260 mm or 300 mm, skin-coloured plastic elbow ball.
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. It is therefore suitable for all amputation levels and for the wrist disarticulation.

647G470

Article number	Upper arm connection Ø	For hand size	For lamination ring Ø	Interior joint Ø
12K27=58x45	70 mm	6 3/4 – 7 1/4	45 mm	58 mm
12K27=58x50	70 mm	7 3/4 – 8	50 mm	58 mm
12K27=78x45	90 mm	6 3/4 – 7 1/4	45 mm	78 mm
12K27=78x50	90 mm	7 3/4 – 8	50 mm	78 mm

Spare parts for 12K27

16Y26 Pull Cable

Article number	for	Complete with
16Y26	16X12 and 16X13	screw connection

21A18 Nylon wire

Article number	Ø	Length	Order by
21A18=2X1	2 mm	1 m	lfm
21A18=2X5	2 mm	5 m	lfm
21A18=2X10	2 mm	10 m	lfm
21A18=2X25	2 mm	25 m	lfm

Elbow Component with Cable Lock and Automatic Forearm Balance (AFB)

647G470

12K33 Elbow Component

With single-sided, rotatable cable lock (18 locking positions in about 7.2° increments), automatic forearm balance (AFB) and upper arm rotation joint (sickle joint).
Plastic forearm shell, skin colour, length 280 mm, circumference approx. 260 mm, skin-coloured plastic elbow ball.
Thanks to the exterior joint construction and innovative technology for interior and exterior rotation of the forearm, this joint allows the distal residual limb to reach up to the joint ball. It is therefore suitable for all amputation levels and for elbow disarticulation.

Article number	Upper arm connection Ø	For hand size	For lamination ring Ø	Interior joint Ø
12K33=58x45	70 mm	6 3/4 - 7 1/4	45 mm	58 mm
12K33=58x50	70 mm	7 3/4 - 8	50 mm	58 mm

Spare parts for 12K33

16Y26 Pull Cable

Article number	for	Complete with
16Y26	16X12 and 16X13	screw connection

12K35 Automatic Forearm Balance (AFB)

Automatic **F**orearm **B**alance

13G50 Strap Clip

Elbow Component with passive lock

12K6 Elbow Component

With manual elbow lock (13 locking positions in approximately 8° increments).
Plastic forearm shell, skin colour, length approx. 260 mm, circumference approx. 245 mm, skin-coloured plastic elbow ball, with wood adapter.

Article number	Upper arm connection Ø	For hand size	For lamination ring Ø
12K6=45	64 mm	6 3/4 – 7 1/4	45 mm
12K6=50	64 mm	7 3/4 – 8	50 mm

647G469

12K5 Elbow Component

With manual elbow lock (13 locking positions in approximately 8° increments) and upper arm rotation joint (sickle joint).
Plastic forearm shell, skin colour, length approx. 260 mm.
Circumference approx. 245 mm, elbow ball is made of skin coloured plastic.

Article number	Upper arm connection Ø	For hand size	For lamination ring Ø
12K5=45	67 mm	6 3/4 – 7 1/4	45 mm
12K5=50	67 mm	7 3/4 – 8	50 mm

647G469

12K20 Elbow Component

With manual elbow lock (13 locking positions in approximately 8° increments) and upper arm rotation joint (sickle joint).
Plastic forearm shell, **dark brown**, length approx. 260 mm, circumference 245 mm. plastic elbow ball, **dark brown**.

Article number	Upper arm connection Ø	For hand size	For lamination ring Ø
12K20=45	67 mm	6 3/4 – 7 1/4	45 mm
12K20=50	67 mm	7 3/4 – 8	50 mm

647G469

Spare parts for 12K5, 12K6 and 12K20

13G8=67 Lamination Ring

Article number	Outside Ø	for
13G8=67	67 mm	12K5 12K20 12R1 12R2 12R5

21A18 Nylon wire

Article number	Ø	Length	Order by
21A18=2X1	2 mm	1 m	lfm
21A18=2X5	2 mm	5 m	lfm
21A18=2X10	2 mm	10 m	lfm
21A18=2X25	2 mm	25 m	lfm

Movo Shoulder Joints

647G349

12S6 MovoShoulder Swing

This shoulder joint opens new opportunities for prosthetic fittings in the shoulder area. 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 prosthesis 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. The joint weighs 242 g and has a total length of 230 mm.

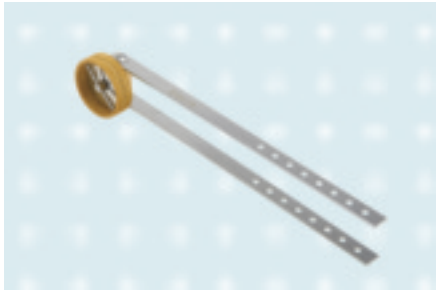
Article number	Side
12S6=L	Left (L)
12S6=R	Right (R)

Technical Data

Reference Number	12S6
Weight	242 g
Overall length	230 mm

Practical recommendation:

- This joint can also be fitted in conjunction with the 12K100=* DynamicArm.



647G473

12S4 Ottobock Shoulder Joint

The shoulder joint has two axes with separate friction and two arm bars.

Article number	12S4
Weight	134 g
Ø-Lamination ring	43 mm
Length	220 mm

647G473

12S5 Ottobock Shoulder Joint

The shoulder joint features two axes, separate friction, a shoulder bracket and two upper arm bars.

Article number	Side
12S5=L	Left (L)
12S5=R	Right (R)

Technical Data

Reference Number	12S5
Weight	149 g
Overall length	220 mm
Ø-Lamination ring	43 mm

Spare parts for 12S4 and 12S6

13Z16=43 Lamination Ring

13D1 O-Ring set

Technical Data

Article number	13D1
for	12S6

13D2 Shoulder Bracket Set

Article number	Side	for
13D2=L	Left	12S6=L
13D2=R	Right	12S6=R

Movo Terminal Devices

647G444

Ottobock System Hand -passive-

With threaded stud and system inner hand,
Hand sizes:

6 3/4	for children
7 1/4	for adolescents and women
7 3/4	for men
8	for men

The passive system hand can be used for all lengths of the residual limb to be fitted with a cosmetic prosthesis. It is opened with the sound hand and closes independently. The system is lightweight and stable.

The Prosthetic glove must be ordered separately. See pages 172-174, 214-216

Article number	Side	Threaded stud	Size	Inner hand
8K18=L6 3/4	Left (L)	M12x1,5	6 3/4	8X14=L6 3/4
8K18=L7 1/4	Left (L)	M12x1,5	7 1/4	8X14=L7 1/4
8K18=L7 3/4	Left (L)	M12x1,5	7 3/4	8X14=L7 3/4
8K18=L8	Left (L)	M12x1,5	8	8X14=L8
8K18=R6 3/4	Right (R)	M12x1,5	6 3/4	8X14=R6 3/4
8K18=R7 1/4	Right (R)	M12x1,5	7 1/4	8X14=R7 1/4
8K18=R7 3/4	Right (R)	M12x1,5	7 3/4	8K21=L8
8K18=R8	Right (R)	M12x1,5	8	8X14=R8

Technical Data

Reference Number	8K18	8K18	8K18	8K18
Size	6 3/4	7 1/4	7 3/4	8
Weight	ca. 185 g	ca. 250 g	ca. 280 g	ca. 290 g

Article number	Side	Threaded stud	Size	Inner hand
8K19=L6 3/4	Left (L)	1/2"–20	6 3/4	8X14=L6 3/4
8K19=L7 1/4	Left (L)	1/2"-20	7 1/4	8X14=L7 1/4
8K19=L7 3/4	Left (L)	1/2"-20	7 3/4	8X14=L6 3/4
8K19=L8	Left (L)	1/2"-20	8	8X14=L8
8K19=R6 3/4	Right (R)	1/2"-20	6 3/4	8X14=R6 3/4
8K19=R7 1/4	Right (R)	1/2"-20	7 1/4	8X14=R7 1/4
8K19=R7 3/4	Right (R)	1/2"-20	7 3/4	8X14=R7 3/4
8K19=R8	Right (R)	1/2"-20	8	8X14=R8

Technical Data

Reference Number	8K19	8K19	8K19	8K19
Size	6 3/4	7 1/4	7 3/4	8
Weight	ca. 185 g	ca. 250 g	ca. 280 g	ca. 290 g

Spare parts for passive system hands

8X14 System Inner Hand

Article number	For hand size	Side
8X14=L6 3/4	6 3/4	Left (L)
8X14=L7 1/4	7 1/4	Left (L)
8X14=L7 3/4	7 3/4	Left (L)
8X14=L8	8	Left (L)
8X14=R6 3/4	6 3/4	Right (R)
8X14=R7 1/4	7 1/4	Right (R)
8X14=R7 3/4	7 3/4	Right (R)
8X14=R8	8	Right (R)

Technical Data

Reference Number	8X14
Complete with	finger support in the little and ring finger and 9S187 Retainer Ring

9S15 Retainer Ring, narrow

Article number	For hand size	Ø
9S15=42	6 3/4	42

9S187 Retainer Ring, wide

Article number	For hand size
9S187=7 1/4	7 1/4
9S187=7 3/4	7 3/4, 8

Technical Data

Article number	9S187=7 1/4	9S187=7 3/4
for	8X14 System Inner Hands	8X14 System Inner Hands

9S6 Finger and Thumb Tip

Article number	For hand size
9S6	6 3/4, 7 1/4, 7 3/4 and 8

9S67 Chassis

With threaded stud

Article number	Side	Ø	Threaded stud	for
9S67=L40	Left (L)	40 mm	M12x1,5	8K18=L6 3/4
9S67=L44-N	Left (L)	44 mm	M12x1,5	8K18=L7 1/4
9S67=L48-N	Left (L)	48 mm	M12x1,5	8K18=L7 3/4 8K18=L8
9S67=R40	Right (R)	40 mm	M12x1,5	8K18=R6 3/4
9S67=R44-N	Right (R)	44 mm	M12x1,5	8K18=R7 1/4
9S67=R48-N	Right (R)	48 mm	M12x1,5	8K18=R7 3/4 8K18=R8

9S65 Chassis

With threaded stud

Article number	Side	Ø	Threaded stud	for
9S65=L40	Left (L)	40 mm	1/2"–20	8K19=L6 3/4
9S65=L44-N	Left (L)	44 mm	1/2"–20	8K19=L7 1/4
9S65=L48-N	Left (L)	48 mm	1/2"–20	8K19=L7 3/4 8K19=L8
9S65=R40	Right (R)	40 mm	1/2"–20	8K19=R6 3/4
9S65=R44-N	Right (R)	44 mm	1/2"–20	8K19=R7 1/4
9S65=R48-N	Right (R)	48 mm	1/2"–20	8K19=R7 3/4 8K19=L8

501T52=M3x6 Flange Button Head Socket Screw

501T52=M3x8 Flange Button Head Socket Screw

Movo Prosthetic Gloves

8S6=170x65 Prosthetic Glove for Children

For hand sizes 6 3/4, with long sleeve.
Standard prosthetic glove available in 18 different shades

Article number	For hand size	Side	Sleeve length
8S6=170x65L	6 3/4	Left (L)	300 mm
8S6=170x65R	6 3/4	Right (R)	300 mm

When ordering, please include the colour code

- In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
- To order them, please enter an **N** before the =:
  example 8S11=210x78xL4 standard glove
  8S11**N**=210x78xL4 MyoSkin Natural
  Please ask our customer service for the available colours.

  The entire range of colours for Skin Natural models comprises of six colours. The new 646M47 colour scale helps when selecting the right pattern.

8S4=190x76 Prosthetic Glove for Adolescents

For hand sizes 7 1/4, with short sleeve.
Standard prosthetic glove available in 18 different shades

Article number	For hand size	Side	Sleeve length
8S4=190x76L	7 1/4	Left (L)	215 mm
8S4=190x76R	7 1/4	Right (R)	215 mm

When ordering, please include the colour code

- In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
- To order them, please enter an **N** before the =:
  example 8S11=210x78xL4 standard glove
  8S11**N**=210x78xL4 MyoSkin Natural
  Please ask our customer service for the available colours.

  The entire range of colours for Skin Natural models comprises of six colours. The new 646M47 colour scale helps when selecting the right pattern.

8S4=210x78 Prosthetic Glove for Men

For hand sizes 7 3/4, with short sleeve.
Standard prosthetic glove available in 18 different shades

Article number	For hand size	Side	Sleeve length
8S4=210x78L	7 3/4	Left (L)	220 mm
8S4=210x78R	7 3/4	Right (R)	220 mm

When ordering, please include the colour code

- In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
- To order them, please enter an **N** before the =:
  example 8S11=210x78xL4 standard glove
  8S11**N**=210x78xL4 MyoSkin Natural
  Please ask our customer service for the available colours.

  The entire range of colours for Skin Natural models comprises of six colours. The new 646M47 colour scale helps when selecting the right pattern.

8S4=220x80 Prosthetic Glove for Men

For hand sizes 8, with short sleeve.
Standard prosthetic glove available in 18 different shades

Article number	For hand size	Side	Sleeve length
8S4=220x80L	8	Left (L)	225 mm
8S4=220x80R	8	Right (R)	225 mm

When ordering, please include the colour code

- In addition to the standard prosthetic glove, Ottobock also offers additional models of 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.
- To order them, please enter an **N** before the =:
  example 8S11=210x78xL4 standard glove
  8S11**N**=210x78xL4 MyoSkin Natural
  Please ask our customer service for the available colours.

  The entire range of colours for Skin Natural models comprises of six colours. The new 646M47 colour scale helps when selecting the right pattern.

8S5=195x78 Prosthetic Glove for Women

For hand sizes 7 1/4, with long sleeve.
Standard prosthetic glove available in 18 different shades

Article number	For hand size	Side	Sleeve length
8S5=195x78L	7 1/4	Left (L)	340 mm
8S5=195x78R	7 1/4	Right (R)	340 mm

When ordering, please include the colour code

- In addition to the standard prosthetic glove, Otto Bock also offers additional models of 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.

  To order them, please enter an **N** before the =:
  example 8S11=210x78xL4 standard glove
  8S11**N**=210x78xL4 MyoSkin Natural
  Please ask our customer service for the available colours.

  The entire range of colours for Skin Natural models is covered with six colours. The new 646M47 colour scale helps when selecting the right pattern.

Movo Wrist Units

Adapter

647G471

10R1 Adapter

For connecting an inner hand or prosthetic hand to the modular arm components

Article number	Complete with
10R1	With threaded stud M12x1.5

647G471

10R2 Adapter

Light metal
For connecting a hook or system hand to modular arm components

Article number	Interior thread
10R2=M12x1.5	M12x1,5
10R2=1/2"–20	1/2"–20

Technical Data

Reference Number	10R2
Connection-Ø	20 mm
Complete with	inner thread

647G471

10R3 Adapter with Flexion

Light metal
For connecting a hook or system hand to modular arm components

Article number	Interior thread
10R3=M12x1.5	M12x1,5
10R3=1/2"–20	1/2"–20

Technical Data

Reference Number	10R3
Connection-Ø	20 mm
Complete with	inner thread

Modules

10R4 Knurled Plate

For connecting an inner hand or prosthetic hand to the 10R2 and 10R3 adapter

Article number	Threaded stud
10R4=M12x1.5	M12x1,5 / M12x1,5
10R4=1/2"–20	M12x1,5 / 1/2"–20

Technical Data

Article number	10R4=M12x1.5	10R4=1/2"–20
for	10R2=M12x1.5 10R3=M12x1.5	10R2=1/2"–20 10R3=1/2"–20
Complete with	Threaded stud on both ends	

647G471

13R11 Modular Adapter for ArmLiners

For connecting Ottobock 14Y1 ArmLiner and 14A1 Lock Set

Article number	Complete with
13R11	Ottobock Modular Arm Component

647G164

Movo Elbow Components

Modular arm components for above-elbow residual limb

12R1 Ottobock Modular Arm Component

separate friction

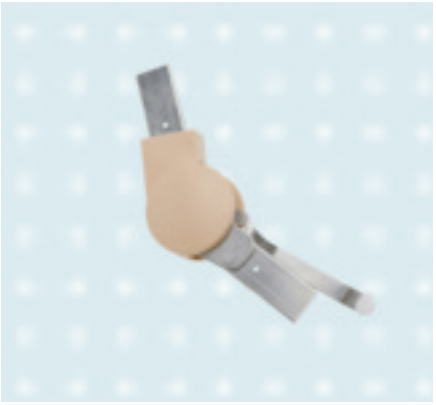
Article number	Side
12R1=L	Left (L)
12R1=R	Right (R)

Technical Data

Reference Number	12R1
for	above-elbow residual limb,
Complete with	passive elbow lock, upper arm and forearm rotation

647G471

Spare parts for 12R1



13R1 Modular Elbow Joint

Article number	Side
13R1=L	Left (L)
13R1=R	Right (R)

Technical Data

Reference Number	13R1
Complete with	passive lock

647G471

13G8=67 Lamination Ring

Article number	Outside Ø	for
13G8=67	67 mm	12K5 12K20 12R1 12R2 12R5

13R3 Light Metal Tube

Gold anodised

Article number	Length	Complete with
13R3	250 mm	einforced ring and 11D58 Glide Bushing

Accessories for 12R1

15K1=30 Pre-Shaped Foam Block

skin coloured Perlon Prosthetic Stockinette

Article number	15K1=30
Colour	skin-coloured
Forearm circumference	300 mm
Complete with	proximally attached 13R8 Connection Flange and 1 m 623T8=9

647G471

13Y1 Flexion Cable Retainer

Technical Data

Article number	13Y1
for	forearm tube

13R9 Connection Ring with groove

Plastic
For attaching the perlon stockinette to the wrist unit

Article number	For hand size
13R9=45	6 3/4
13R9=50	7 1/4
13R9=55	7 3/4, 8
13R9=65	prosthetic hands (adaptable)

Technical Data

Article number	13R9=45	13R9=50	13R9=55	13R9=65
Outer Ø	45 mm	50 mm	55 mm	65 mm

647G471

12R2 Ottobock Modular Arm Component

separate friction

Article number	Side
12R2=L	Left (L)
12R2=R	Right (R)

Technical Data

Reference Number	12R2
for	above-elbow residual limb
Complete with	cable lock suitable for left and right side (18 locking positions in about 7.2° increments)

12R5 Ottobock Modular Arm Component

separate friction

Article number	Side
12R5=L	Left (L)
12R5=R	Right (R)

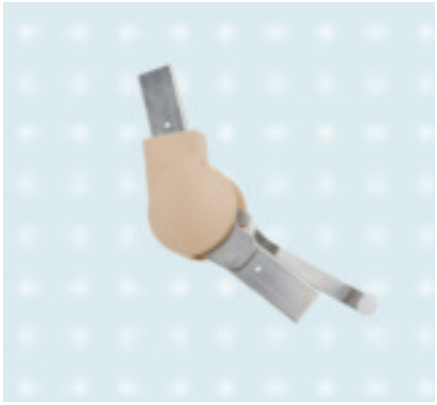
Technical Data

Reference Number	12R5
for	above-elbow residual limb
Complete with	cable lock suitable for left and right side (18 locking positions in about 7.2° increments)

Spare parts for 12R2 and 12R5

13R1 Modular Elbow Joint

Article number	Side	Complete with
13R1=L	Left (L)	passive lock
13R1=R	Right (R)	passive lock



647G471

13G8=67 Lamination Ring

Article number	Outside Ø	for
13G8=67	67 mm	12K5 12K20 12R1 12R2 12R5

13R3 Light Metal Tube

Gold anodised

Article number	Length	Complete with
13R3	250 mm	einforced ring and 11D58 Glide Bushing

16Y27 Joint Piece with Cable Lock

(18 ratchet settings of approximately 7.2°),
suitable for both sides

Article number	for	Complete with
16Y27	16X12 and 16X13	joint plate and flat head screws

Accessories for 12R2 and 12R5

15K2=30 Pre-Shaped Foam Block

preformed

Article number	15K2=30
Colour	skin-coloured
Forearm circumference	300 mm
Complete with	separate 13R8 Connection Flange and 1.30 m 623T8=9 skin coloured Perlon Stockinette

13Y1 Flexion Cable Retainer

Technical Data

Article number	13Y1
for	forearm tube

13R9 Connection Ring with groove

Plastic
For attaching the perlon stockinette to the wrist unit

Article number	For hand size
13R9=45	6 3/4
13R9=50	7 1/4
13R9=55	7 3/4, 8
13R9=65	prosthetic hands (adaptable)

Technical Data

Article number	13R9=45	13R9=50	13R9=55	13R9=65
Outer Ø	45 mm	50 mm	55 mm	65 mm

Modular arm components for shoulder disarticulation

647G471

12R3 Ottobock Modular Arm Component

For connecting a shoulder joint

Article number	Side
12R3=L	Left (L)
12R3=R	Right (R)

Reference Number	12R3
for	houlder disarticulation
Complete with	passive elbow lock and 13R7 adapter

Accessories for 12R3

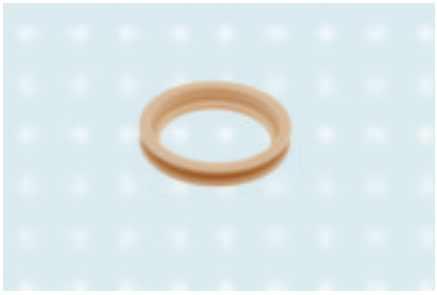
15K3=30 Pre-Shaped Foam Block

preformed, two-piece

Article number	15K3=30
Colour	skin-coloured
Forearm circumference	300 mm
Complete with	approx. 2 m 623T8=9 skin coloured Perlon Stockinette

13R9 Connection Ring with groove

Plastic
For attaching the perlon stockinette to the wrist unit



Article number	For hand size
13R9=45	6 3/4
13R9=50	7 1/4
13R9=55	7 3/4, 8
13R9=65	prosthetic hands (adaptable)

Technical Data

Article number	13R9=45	13R9=50	13R9=55	13R9=65
Outer Ø	45 mm	50 mm	55 mm	65 mm

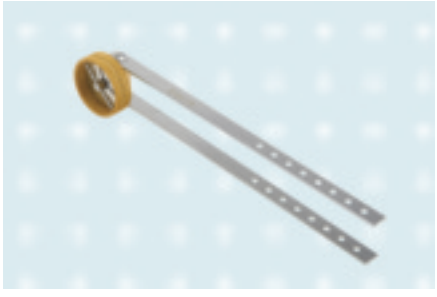
13Y1 Flexion Cable Retainer

Technical Data

Article number	13Y1
for	forearm tube

12S4 Ottobock Shoulder Joint

The shoulder joint has two axes with separate friction and two arm bars.



Article number	12S4
Weight	134 g
Ø-Lamination ring	43 mm
Length	220 mm

647G473

647G473

12S5 Ottobock Shoulder Joint

The shoulder joint features two axes, separate friction, a shoulder bracket and two upper arm bars.

Article number	Side
12S5=L	Left (L)
12S5=R	Right (R)

Technical Data

Reference Number	12S5
Weight	149 g
Overall length	220 mm
Ø-Lamination ring	43 mm

12R4 Ottobock Modular Arm Component

For connecting a 12S7 shoulder joint

Article number	Side
12R4=L	Left (L)
12R4=R	Right (R)

647G471

Technical Data

Reference Number	12R4
for	shoulder disarticulation
Complete with	passive elbow lock

Accessories for 12R4

15K3=30 Pre-Shaped Foam Block

preformed, two-piece

Article number	15K3=30
Colour	skin-coloured
Forearm circumference	300 mm
Complete with	approx. 2 m 623T8=9 skin coloured Perlon Stockinette

13R9 Connection Ring with groove

Plastic
For attaching the perlon stockinette to the wrist unit

Article number	For hand size
13R9=45	6 3/4
13R9=50	7 1/4
13R9=55	7 3/4, 8
13R9=65	prosthetic hands (adaptable)

Technical Data

Article number	13R9=45	13R9=50	13R9=55	13R9=65
Outer Ø	45 mm	50 mm	55 mm	65 mm

647G473

12S7 Ottobock Ball Shoulder Joint

Article number	**12S7**
Material	Light metal
Weight	78 g
Complete with	threaded stud M12x1.5

Spare parts for 12S7

13X5 Joint Ball

13X4 Joint Clamp

13X3 Friction Ring

Article number	**13X3**
Material	plastic

Accessories for 12S7

647G454

10R2=M12x1.5 Adapter

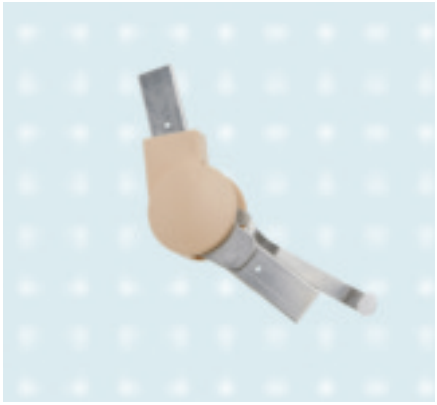
for connecting modular arm components to 12S7 Ball Shoulder Joint

Article number	Interior thread	Complete with
10R2=M12x1.5	M12x1,5	internal thread M12x1.5

Modular Elbow Joint

13R1 Modular Elbow Joint

Article number	Side	Complete with
13R1=L	Left (L)	passive lock
13R1=R	Right (R)	passive lock



647G471

Spare parts for 13R1

13G37=N Joint Protector

Modules

13R3 Light Metal Tube

Gold anodised

Article number	Length	Complete with
13R3	250 mm	einforced ring and 11D58 Glide Bushing

13R4 Light Metal Tube

Gold anodised

Article number	Length	Complete with
13R4	120 mm	reinforced ring and 11D58 Glide Bushing

10R5 Adapter

For connecting the 13R3/13R4 Tubes and the 13R6/13R7 Adapters to the elbow joint

Article number	for
10R5	hand and upper arm rotation

13R7 Adapter

Article number	for
13R7	12S4 and 12S5 Shoulder Joints

13R5 Adapter

For connecting the 13G8 Lamination Ring to the aluminium alloy tube

13R6 Adapter

For connecting the 13G8 Lamination Ring to the elbow joint using the 10R5 Adapter

13G8=67 Lamination Ring

Article number	Outside Ø	for
13G8=67	67 mm	12K5 12K20 12R1 12R2 12R5

501S35=M4x6 Truss Head Screw

Article number	for
501S35=M4x6	13R5, 13R6 and 13R7

501Z2=M4x18 Cap Screw

Article number	for
501Z2=M4x18	13R5

506G1=M6x10 Set Screw

Article number	for
506G1=M6x10	10R5

13R8=64 Mounting Flange

for attaching the foam cover to the lamination ring

Article number	13R8=64
Material	Plastic

13Y1 Flexion Cable Retainer

Article number	for
13Y1	forearm tube

Movo Arm Bars

Elbow Joint Bars

647G472

16X12 Elbow Joint Bars

One joint bar features rotatable cable lock (18 locking positions in 7.2° increments). Second joint bar without lock. Flat bar profile.
suitable for both sides

Article number	Head Ø	Upper/lower bar length	Bar width / thickness
16X12	30 mm	320/320 mm	14/2 mm

Technical Data

Article number	16X12
Material	Stainless steel
for	orthoses and prostheses

647G472

16X13 Elbow Joint Bar with Cable Lock

Joint features rotatable cable lock (18 locking positions in 7.2° increments). Flat bar profile, suitable for both sides

Article number	Head Ø	Upper/lower bar length	Bar width / thickness
16X13	30 mm	320/320 mm	14/2 mm

Technical Data

Article number	16X13
Material	Stainless steel
for	orthoses and prostheses

16X14 Elbow Joint Bar without Lock

Free motion joint, flat bar profile

Article number	Head Ø	Upper/lower bar length	Bar width / thickness
16X14	30 mm	320/320 mm	14/2 mm

Technical Data

Article number	16X14
Material	Stainless steel

647G472

Spare parts for 16X12, 16X13, 16X14

16Y27 Joint Piece with Cable Lock

(18 ratchet settings of approximately 7.2°),
suitable for both sides

Article number	16Y27
for	16X12 and 16X13
Complete with	joint plate and flat head screws

16Y31 Joint Piece without Lock

Article number	16Y31
for	16X12 and 16X14
Complete with	joint plate and Flat Head Screws

16Y26 Pull Cable

Article number	16Y26
for	16X12 and 16X13
Complete with	screw connection

21Y79 Bow with wedge lock

Article number	21Y79
for	16X12 and 16X13
Complete with	gib and cotter

Arm Bars

16U4 Double Joint Arm Bars

Free-motion joints, concave half-round bar profile

Article number	Upper/lower bar length	Bar width	Bar length
16U4	270 / 270 mm	14 mm	2 mm

Technical Data

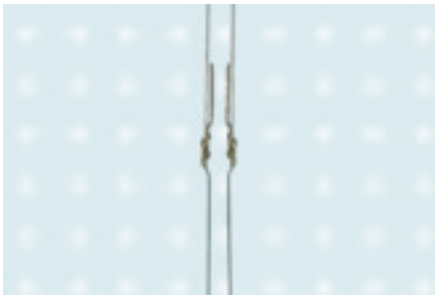
Article number	16U4
Material	Stainless steel
for	orthoses and prostheses

16U5 Double Joint Arm Bars

Free motion joints, with step-up, concave half-round bar profile

Technical Data

Article number	16U5
Material	stainless steel
for	short below-elbow residual limb
Upper/lower bar length	270 / 270 mm
Bar width	14 mm
Bar thickness	2 mm
Length of the step-up bar	105 mm



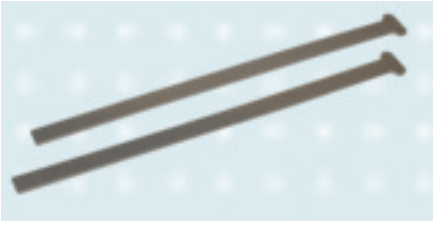
16X4 Arm Bars

Joints with automatic ratchet lock, locks only in extension, releases at a max. flexion of approx. 135°, concave half-round
bar profile

Article number	Head Ø	Upper/lower bar length	Bar width	Bar thickness
16X4	26 mm	210/230 mm	14 mm	2 mm

Technical Data

Article number	16X4
Material	Stainless steel



16U8 Arm Bar

Article number	Width	Material thickness
16U8	14 mm	2.45 mm

Technical Data

Article number	16U8
Material	Stainless steel
Overall length	300 mm
Package content	2 pieces pc.

Practical recommendation:

- 16U7 and 16U8 together form a bilateral joint bar.

16U7 Arm Bar with Joint

Free motion joint in flexion direction

Article number	Width	Material thickness	Length from joint centre
16U7	14 mm	2.45 mm	307 mm

Technical Data

Article number	16U7
Material	Stainless steel
Package content	2 pieces pcs.

Practical recommendation:

- 16U6 and 16U7 together form an above-elbow bar with two-part joint. To obtain the required length, the ends of the 16U6 are cut.
- 16U7 and 16U8 together form a bilateral joint bar.

16U6 Arm Frame

Article number	Width	Material thickness
16U6	14 mm	2.45 mm

Technical Data

Article number	16U6
Material	Stainless steel
Overall length	600 mm

Practical recommendation:

- The 16U6 Arm Frame can be combined with the 16U7 Arm Bar with Elbow Joint to form an above-elbow bar with a two-part joint. To obtain the required length, the ends of the 16U6 can be cut.

17F48=5 Joint

17Y17=6x8x2.4 Bushing

Article number	17Y17=6x8x2.4
Material	Brass

17Y93=6x5.2xM4 Bearing Nut

506A12 Rivet Pin

Article number	506A12=4x22	506A12=4x30
Material	Stainless steel	Stainless steel

Phillips Countersink Screw Head

Article number	Thread	Length
501T19=M5x6	M5	6 mm

16Y9 Joint Plate

Article number	16Y9
Material	Stainless steel

Spare parts for 16X4

16Y7 Locking Latch

Article number	16Y7
Material	Stainless steel

16Y8 Lock Washer

Article number	16Y8
Material	Stainless steel

Movo Shoulder Joints

MovoShoulder Swing

647G349

12S6 MovoShoulder Swing

This shoulder joint opens new opportunities for prosthetic fittings in the shoulder area. 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 prosthesis 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. The joint weighs 242 g and has a total length of 230 mm.

Article number	Side
12S6=L	Left (L)
12S6=R	Right (R)

Technical Data

Reference Number	12S6
Weight	242 g
Overall length	230 mm

Practical recommendation:

- This joint can also be fitted in conjunction with the 12K100=* DynamicArm.

Shoulder Joints

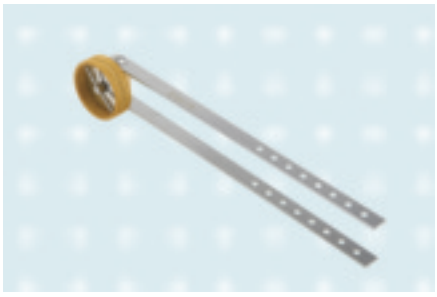
12S4 Ottobock Shoulder Joint

The shoulder joint has two axes with separate friction and two arm bars.

Article number	Length
12S4	220 mm

Technical Data

Article number	12S4
Weight	134 g
Ø-Lamination ring	43 mm



647G473

12S5 Ottobock Shoulder Joint

The shoulder joint features two axes, separate friction, a shoulder bracket and two upper arm bars.

Article number	Side
12S5=L	Left (L)
12S5=R	Right (R)

Technical Data

Reference Number	12S5
Weight	149 g
Overall length	220 mm
Ø-Lamination ring	43 mm

647G473

Spare parts for 12S4 and 12S5

13Z16=43 Lamination Ring

647G473

12S7 Ottobock Ball Shoulder Joint

Article number	12S7
Material	Light metal
Weight	78 g
Complete with	threaded stud M12x1.5

Accessories for 12S7

647G454

10R2=M12x1.5 Adapter

for connecting modular arm components to 12S7 Ball Shoulder Joint

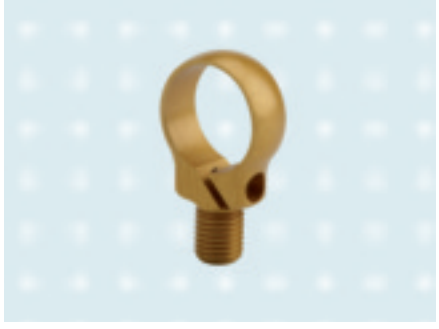
Article number	Interior thread	Complete with
10R2=M12x1.5	M12x1,5	internal thread M12x1.5

Spare parts for 12S7

13X5 Joint Ball

13X3 Friction Ring

Article number	13X3
Material	plastic



13X4 Joint Clamp

Physo

Physo Terminal Devices

The following pages, containing photographs of every passive prosthetic hand available from Otto Bock, are intended to assist you and your patients in selecting the most appropriate prosthetic hand.

Otto Bock passive prosthetic hands consist of an inner hand and a prosthetic glove. The standard inner hand is molded from a light-weight foam material with steel wire reinforcement in each finger. Various adapters are available to provide connection to the prosthesis.

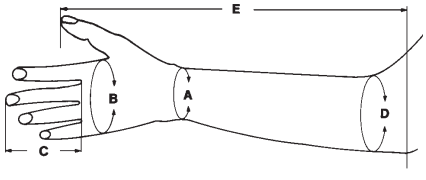
Shape, color and detailed surface structure of the prosthetic glove give a lifelike appearance to the inner hand. The 43 different models for children, women and men are illustrated for the right hand and are marked for identification as in the table below:

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

The order numbers appear on each page above the passive prosthetic hand. The prosthetic glove (line 1) and inner hand (line 2) each have unique numbers for the left and right side.

	8S5=165x72L	40	8S5=167x72R	
	8S8=165x72L		8S7=167x72R	

Composing the order number
To precisely determine the correct size of the prosthetic glove and inner hand, take actual measurements of the „metacarpal circumference“ (B) and „middle finger length“ (C) of your patient guided by the following sketch.
Comparison of the actual „metacarpal circumference“ (B) and „middle finger length“ (C) measurements from your patient with those indicated in the tables on pages 3.3 and 3.4 will help to ensure proper size selection.



A = wrist circumference
B = metacarpal circumference
C = middle finger length
D = below-elbow circumference
E = length to elbow (for short sleeve, no measurement required)

Metacarpal circumf. (B)	Middle finger length (C)	Wrist circumf. (A)	Below-elbow circumf. (D)	Length to elbow (E)
160	68	140	200	384

These measurements lead for example to the following order number for the prosthetic glove and the corresponding inner hand. Actual measurements of all inner hands differ from those shown, as they are reduced by the wall thickness of the cosmetic glove.

8S5=	**165 x 72**	**L**
8S8=		

The final step in the selection process is to select the color shade, i.e. the color number. The standard gloves are available in 18 shades which are reproduced on page 3.5 as accurately as possible, together with their corresponding code number. Color shade guides on actual glove material will be sent free of charge on request under order number 646M3. After selecting the color, the order number for prosthetic glove and inner hand should appear as in the following example:

8S5=	**165 x 72**	**L**	**6**
8S8=	**165 x 72**	**L**	

If the inner hand is to be used for a partial hand replacement a „T“ must be added to the order number as follows:

8S8=	**165 x 72**	**L**	**T**

All measurements are stated in mm and are subject to a tolerance of ± 5 mm.

Prosthetic Gloves and Inner Hands for Children

Article Number for Ordering			Measurements for the **left** hand					Check no.		Measurements for the **right** hand				
Prosthetic glove	Inner hand	Article No.	metacarpal circumf. (B)	middle finger length (C)	wrist cicumf. (A)	below-elbow circumf. (D)	length to elbow (E)		Article No.	metacarpal circumf. (B)	middle finger length (C)	wrist cicumf. (A)	below-elbow circumf. (D)	length to elbow (E)
8S6=	**8S9=**	**115 x 38L**	110	38	107	147	211	40	**115 x 37R**	113	37	107	144	215
		130 x 51L	126	46	112	150	262	41	**134 x 52R**	133	47	113	156	263
		142 x 50L	140	46	124	148	294	42	**139 x 51R**	141	49	125	158	277
		151 x 58L	140	54	123	164	294	44	**151 x 59R**	142	54	126	168	298
		158 x 54L	158	54	133	188	341	86	**159 x 53R**	159	53	134	185	352
		165 x 68L	163	59	135	181	380	48	**158 x 68R**	160	63	140	181	355
		168 x 70L	164	64	145	180	376	47	**166 x 70R**	161	63	142	176	369
		170 x 65L	163	57	146	182	397	43	**170 x 65R**	165	61	142	180	370

Prosthetic Gloves and Inner Hands for Women

Article Number for Ordering			Measurements for the **left** hand					Check no.		Measurements for the **right** hand				
Prosthetic glove	Inner hand	Article No.	metacarpal circumf. (B)	middle finger length (C)	wrist cicumf. (A)	below-elbow circumf. (D)	length to elbow (E)		Article No.	metacarpal circumf. (B)	middle finger length (C)	wrist cicumf. (A)	below-elbow circumf. (D)	Llength to elbow (E)
8S5=	**8S8=**	**165 x 72L**	160	68	140	200	384	34	**167 x 72R**	165	66	149	204	394
		174 x 74L	172	67	151	190	408	32	**175 x 76R**	170	67	148	185	410
		180 x 80L	167	72	159	225	488	29	**176 x 80R**	173	71	156	215	470
		182 x 84L	179	73	154	204	290	28	**190 x 84R**	187	74	157	210	285
		184 x 75L	180	66	149	226	461	36	**187 x 74R**	181	69	153	221	407
		184 x 78L	182	70	155	221	400	37	**184 x 78R**	184	73	153	215	426
		185 x 75L	180	70	152	202	402	23	**181 x 75R**	180	69	157	205	405
		188 x 79L	185	77	163	225	433	70	**187 x 79R**	185	76	160	235	433
		190 x 77L	188	66	148	210	444	20	**190 x 77R**	186	66	152	215	438
		190 x 93L	185	82	182	222	467	30	**186 x 92R**	184	88	178	218	464
		192 x 78L	186	69	154	223	403	24	**191 x 78R**	189	72	163	224	395
		194 x 82L	188	73	157	215	468	27	**189 x 84R**	185	73	156	214	488
		195 x 78L	195	69	165	214	460	38	**195 x 78R**	194	73	167	223	437
		195 x 79L	190	70	166	228	408	25	**200 x 79R**	196	74	168	235	405
		208 x 89L	197	77	175	234	456	19	**210 x 89R**	201	79	180	235	458

Prosthetic Gloves and Inner Hands for Men

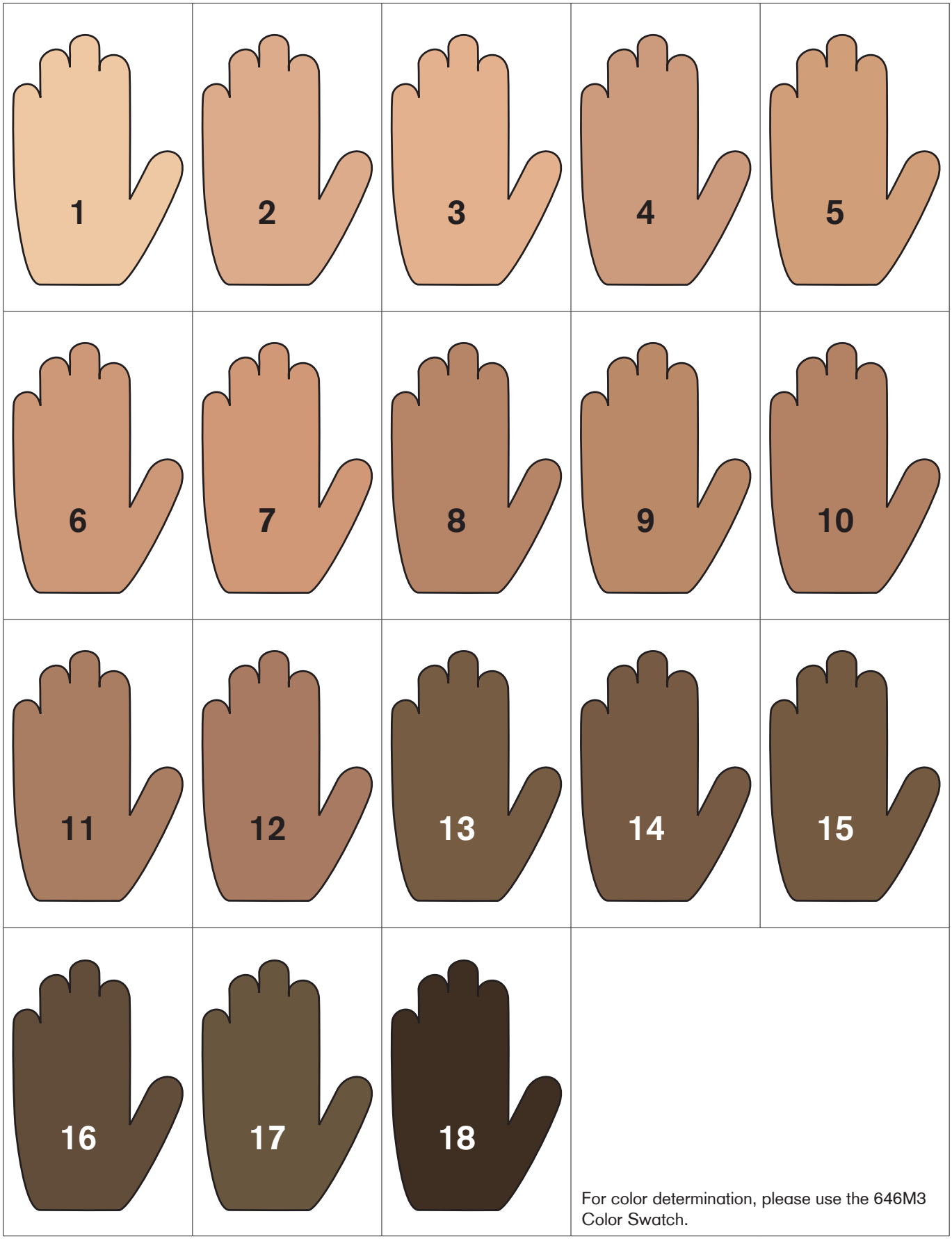
Article Number for Ordering			Measurements for the **left** hand					Check no.		Measurements for the **right** hand				
Prosthetic glove	Inner hand	Article No.	metacarpal circumf. (B)	middle finger length (C)	wrist cicumf. (A)	below-elbow circumf. (D)	length to elbow (E)		Article No.	metacarpal circumf. (B)	middle finger length (C)	wrist cicumf. (A)	below-elbow circumf. (D)	length to elbow (E)
8S4=	8S7=	**202 x 74L**	195	73	160	226	480	58	**206 x 76R**	200	73	167	212	468
		203 x 83L	200	70	166	233	420	16	**199 x 82R**	192	72	160	227	422
		203 x 85L	195	76	162	232	481	15	**206 x 85R**	196	76	166	236	465
		205 x 81L	202	72	171	180	196	5	**205 x 81R**	199	76	175	180	190
		206 x 80L	206	80	184	250	483	60	**205 x 80R**	205	80	185	255	474
		206 x 87L	200	80	160	220	420	13	**215 x 88R**	207	81	166	240	468
		207 x 86L	197	80	166	227	483	57	**209 x 86R**	205	82	168	231	471
		208 x 85L	205	75	176	236	475	12	**212 x 83R**	208	76	186	240	475
		211 x 88L	202	81	170	243	460	59	**212 x 86R**	215	81	174	246	463
		212 x 93L	201	81	175	245	510	56	**215 x 93R**	206	85	175	239	502
		213 x 85L	213	73	187	243	462	54	**218 x 85R**	211	76	187	245	460
		214 x 82L	210	74	179	250	450	17	**215 x 83R**	210	71	185	246	444
		218 x 85L	218	75	180	233	498	8	**218 x 83R**	214	75	180	240	470
		220 x 91L	210	77	189	236	453	11	**214 x 90R**	208	78	181	230	453
		221 x 81L	218	68	182	245	468	51	**225 x 82R**	225	76	183	239	460
		228 x 84L	224	73	180	245	445	53	**222 x 84R**	218	79	173	244	444
		228 x 88L	223	78	186	250	345	52	**228 x 89R**	220	86	194	247	419
		232 x 94L	228	81	184	270	533	55	**230 x 93R**	225	80	184	250	540
		238 x 92L	223	76	187	255	465	14	**244 x 94R**	223	76	189	255	455

Examples for ordering:

8S4= **202 x 74** **L** **6** **bzw.** **8S7=** **202 x 74** **L**

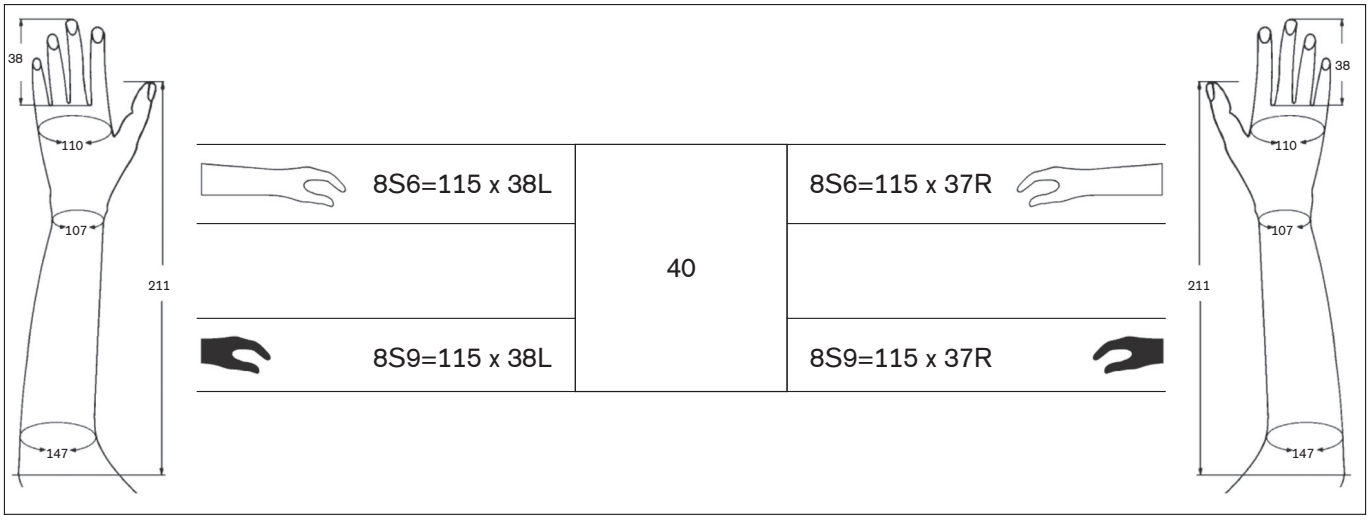
If the inner hand is to be used **for partial hand replacement** a „T“ must be added to the article number, for example:

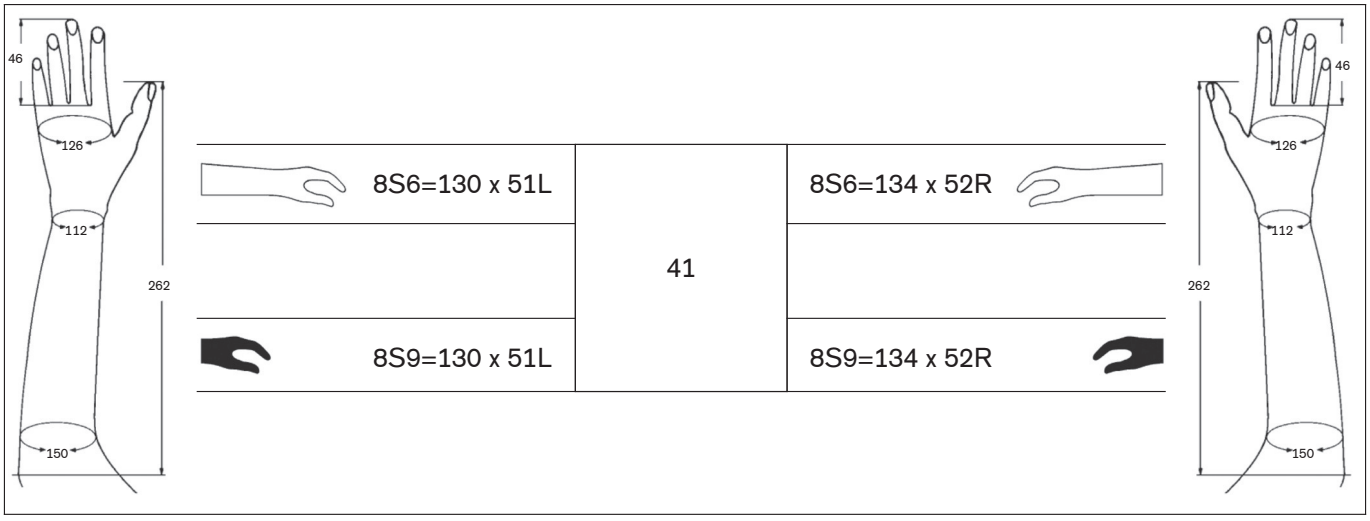
8S7= 202 x 74 L **T**

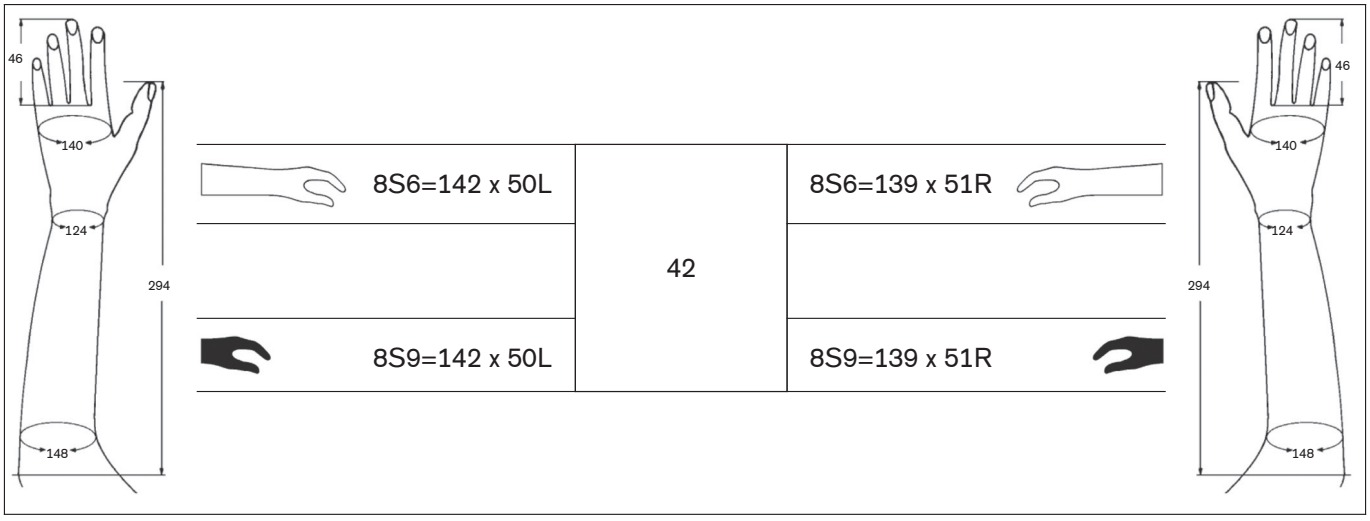


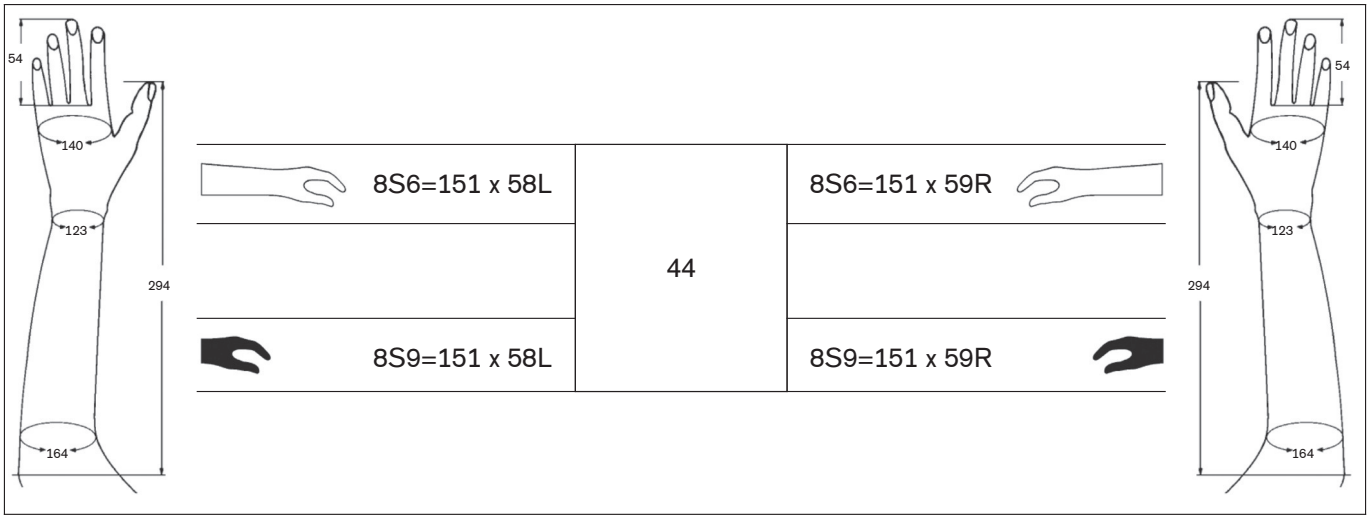
For color determination, please use the 646M3 Color Swatch.

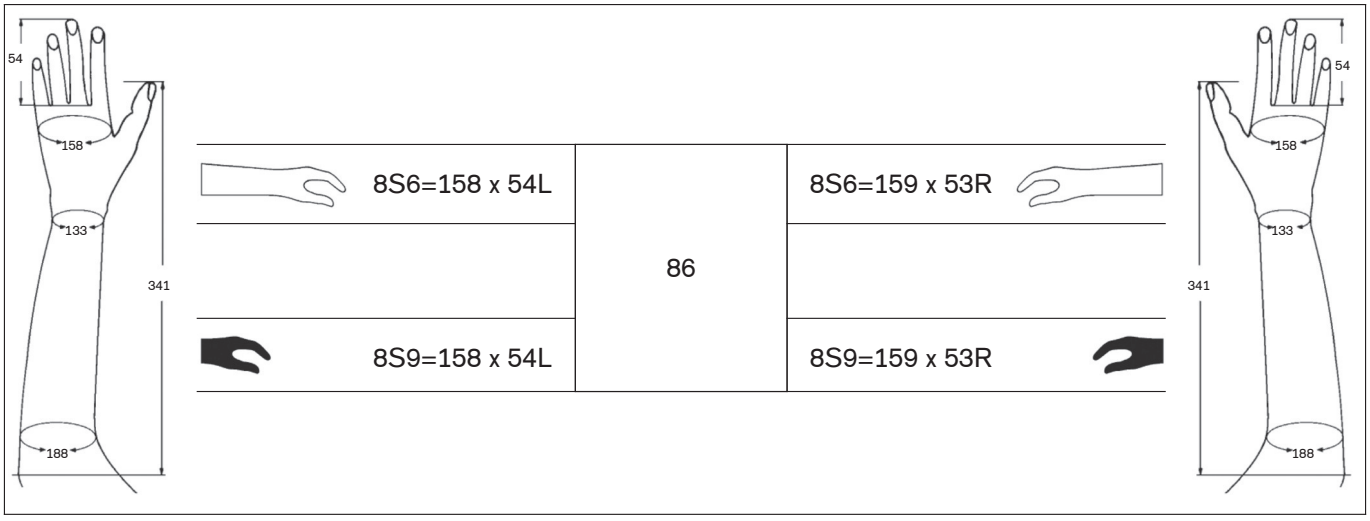
Prosthetic gloves in the colors 2, 4, 6, 8, 10 and 14 are available as stock. For all other colors, please note that the gloves are fabricated only after receipt of an order and that, for this reason, delivery of such gloves will take longer.

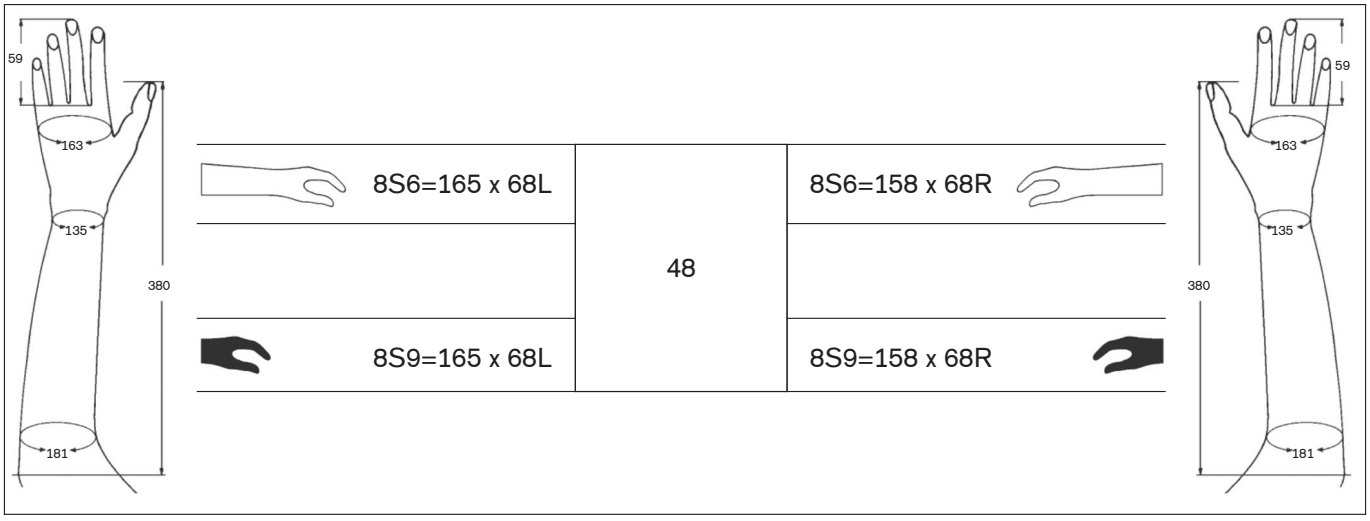

38
110
107
211
147
8S6=115 x 38L
8S6=115 x 37R
40
8S9=115 x 38L
8S9=115 x 37R
38
110
107
211
147

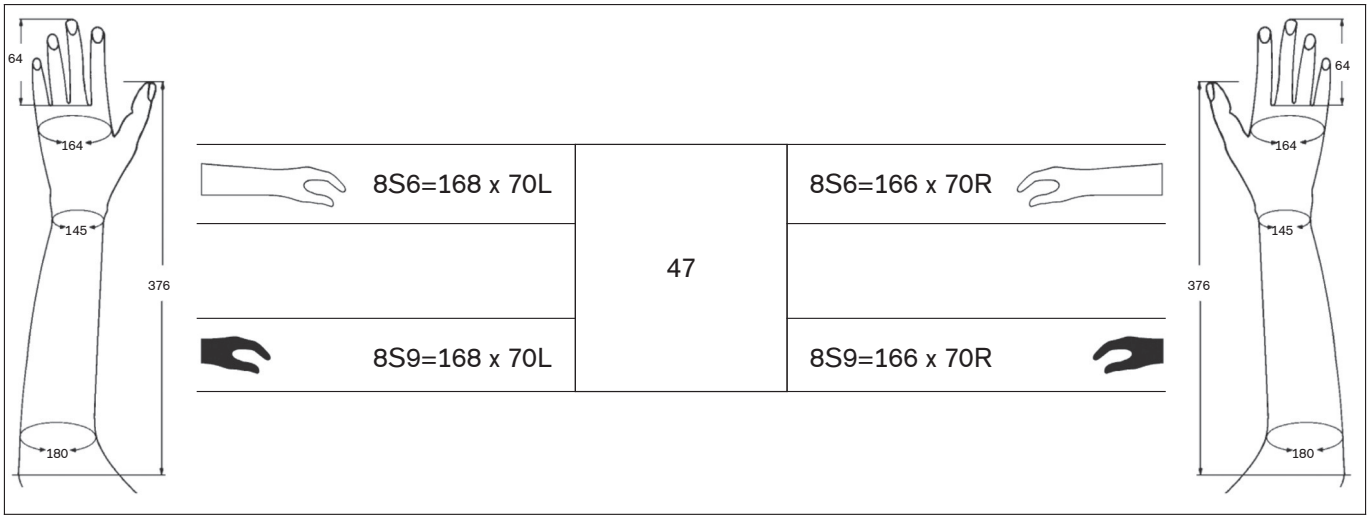

46
126
112
262
150
8S6=130 x 51L
8S9=130 x 51L
41
8S6=134 x 52R
8S9=134 x 52R
46
126
112
262
150

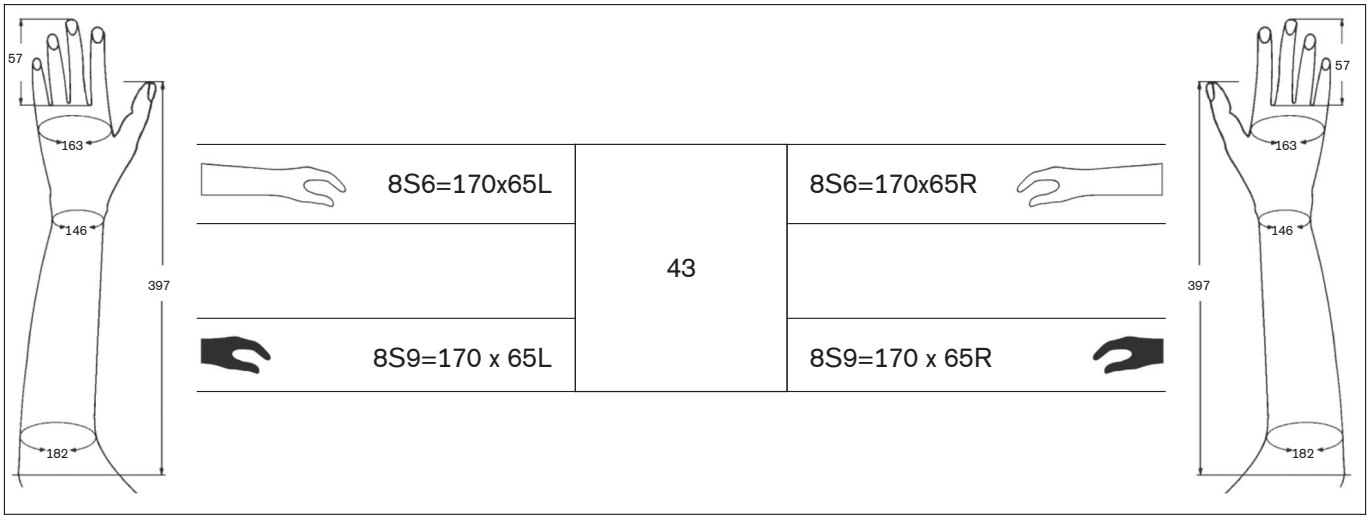

46
140
124
294
148
8S6=142 x 50L
8S9=142 x 50L
42
8S6=139 x 51R
8S9=139 x 51R
46
140
124
294
148

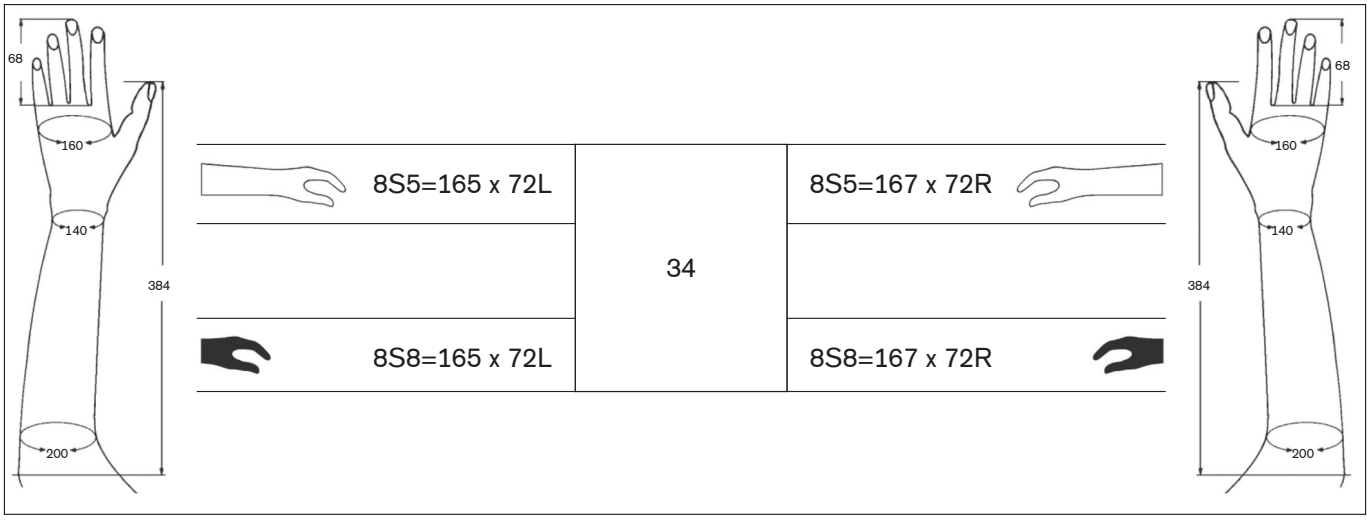

54
140
123
294
164
8S6=151 x 58L
8S6=151 x 59R
44
8S9=151 x 58L
8S9=151 x 59R
54
140
123
294
164

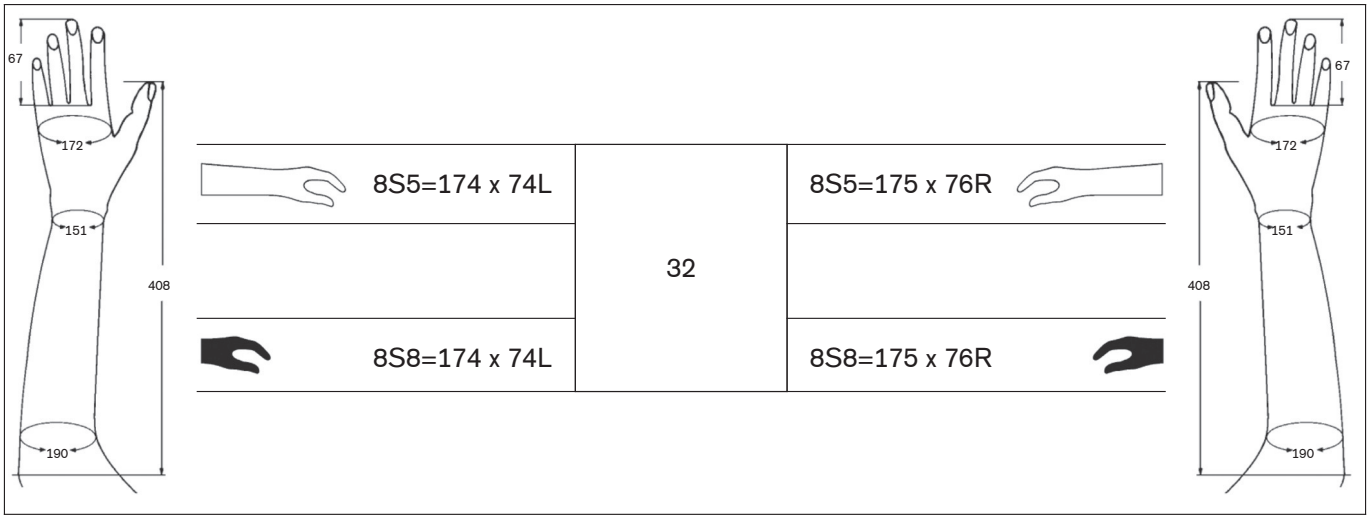

54
158
133
341
188
8S6=158 x 54L
8S9=158 x 54L
86
8S6=159 x 53R
8S9=159 x 53R
54
158
133
341
188

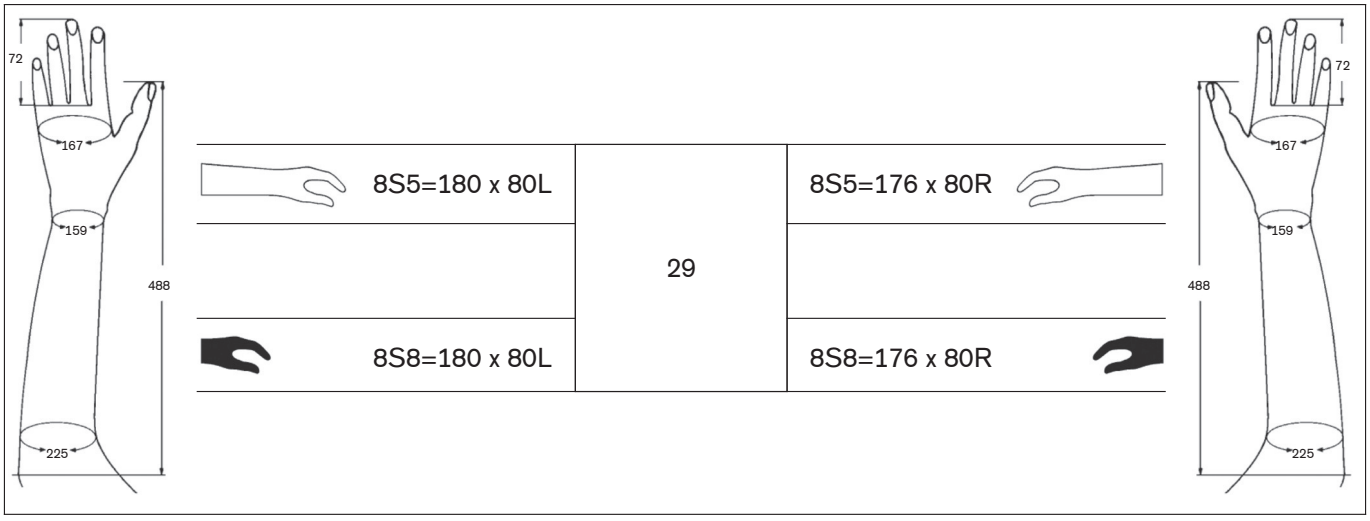

59
163
135
380
181
8S6=165 x 68L
8S9=165 x 68L
48
8S6=158 x 68R
8S9=158 x 68R
59
163
135
380
181

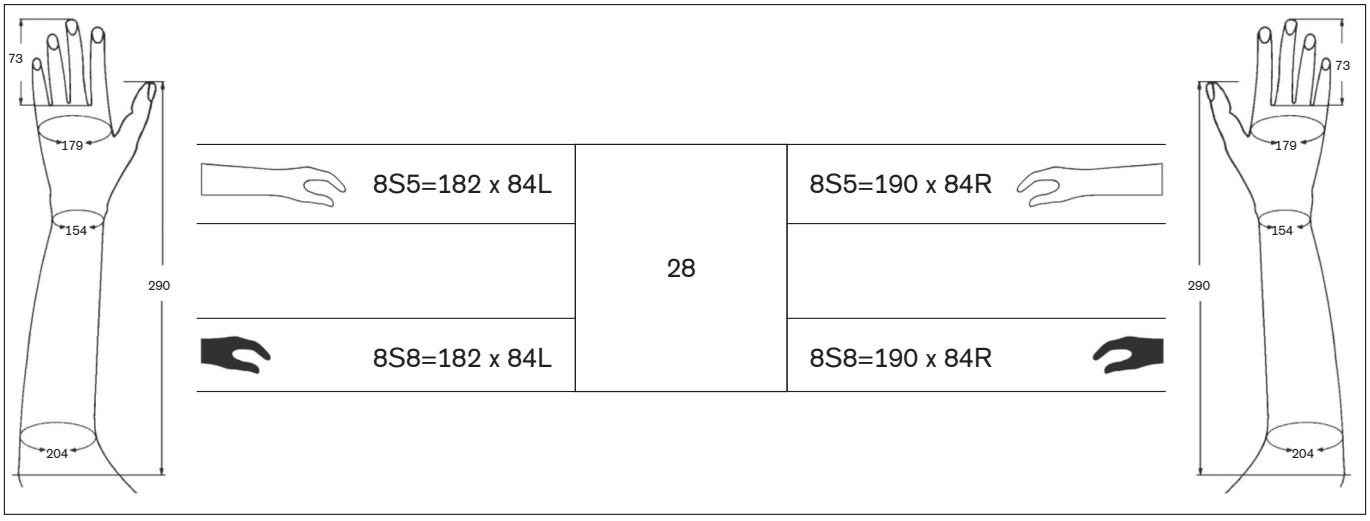

64
164
145
376
180
8S6=168 x 70L
8S9=168 x 70L
47
8S6=166 x 70R
8S9=166 x 70R
64
164
145
376
180

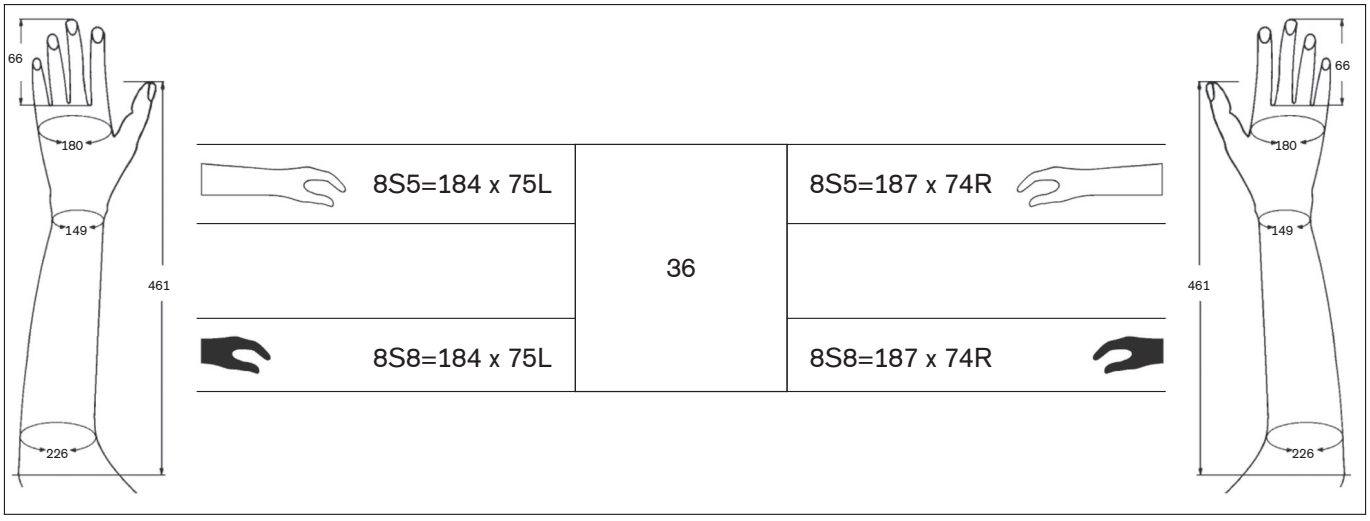

57
163
146
397
182
8S6=170x65L
43
8S6=170x65R
8S9=170 x 65L
8S9=170 x 65R
57
163
146
397
182

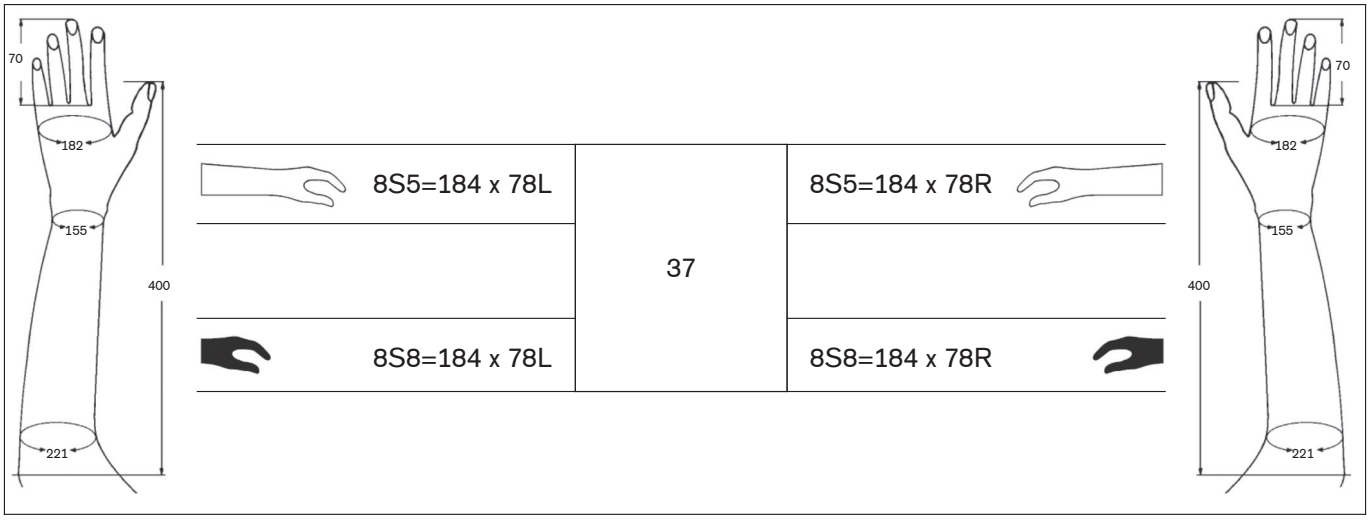

68
160
140
384
200
8S5=165 x 72L
8S8=165 x 72L
34
8S5=167 x 72R
8S8=167 x 72R
68
160
140
384
200

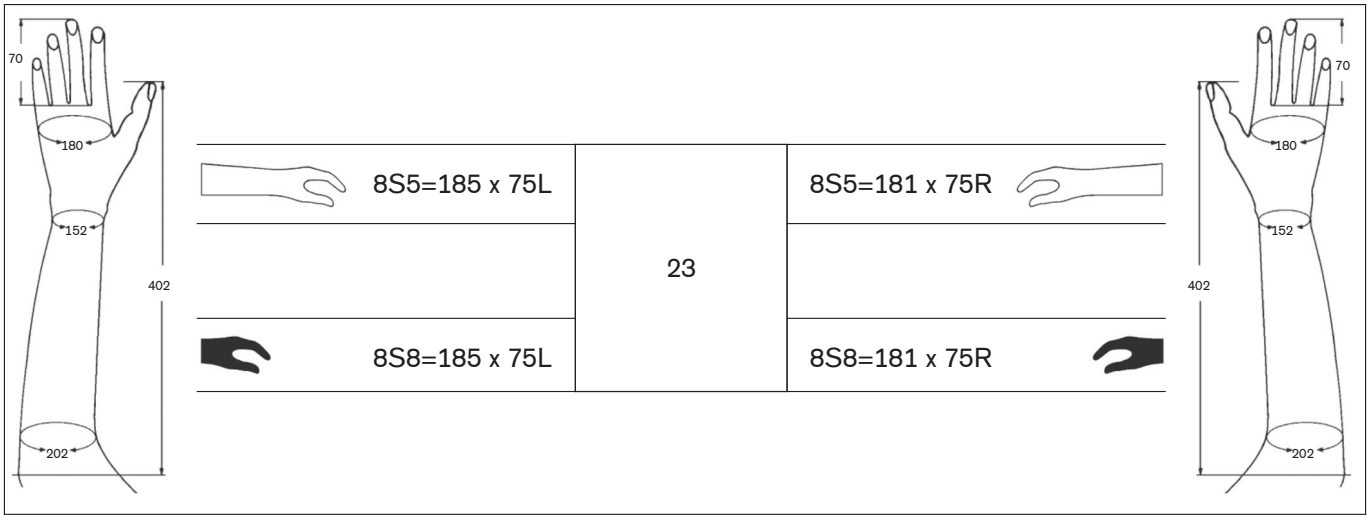

67
172
151
408
190
8S5=174 x 74L
8S8=174 x 74L
32
8S5=175 x 76R
8S8=175 x 76R
67
172
151
408
190

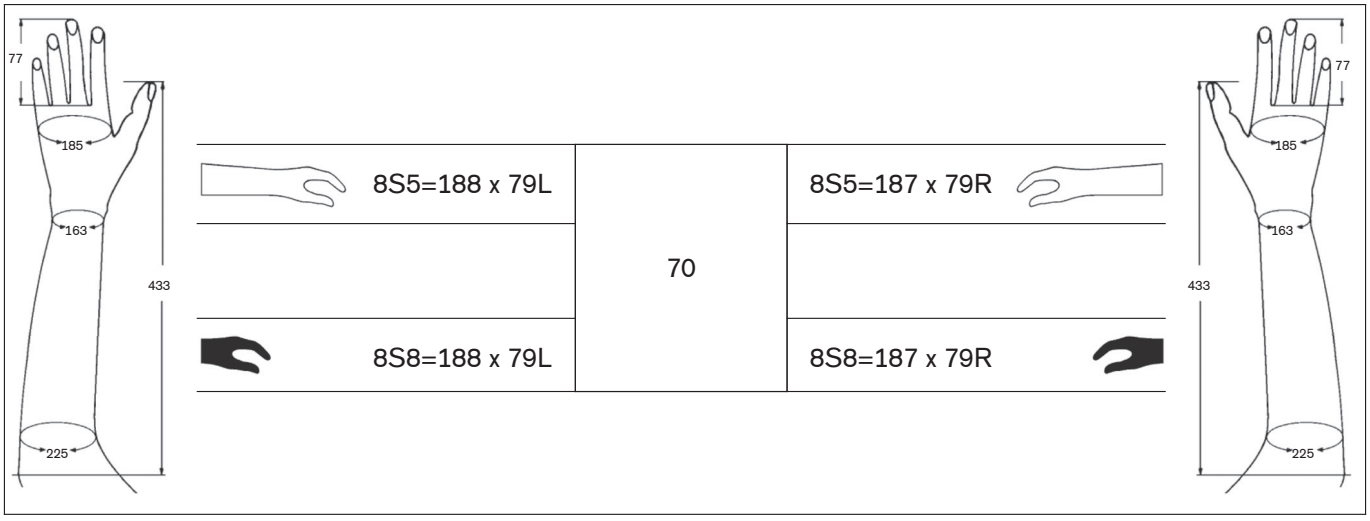

72
167
159
488
225
8S5=180 x 80L
8S8=180 x 80L
29
8S5=176 x 80R
8S8=176 x 80R
72
167
159
488
225

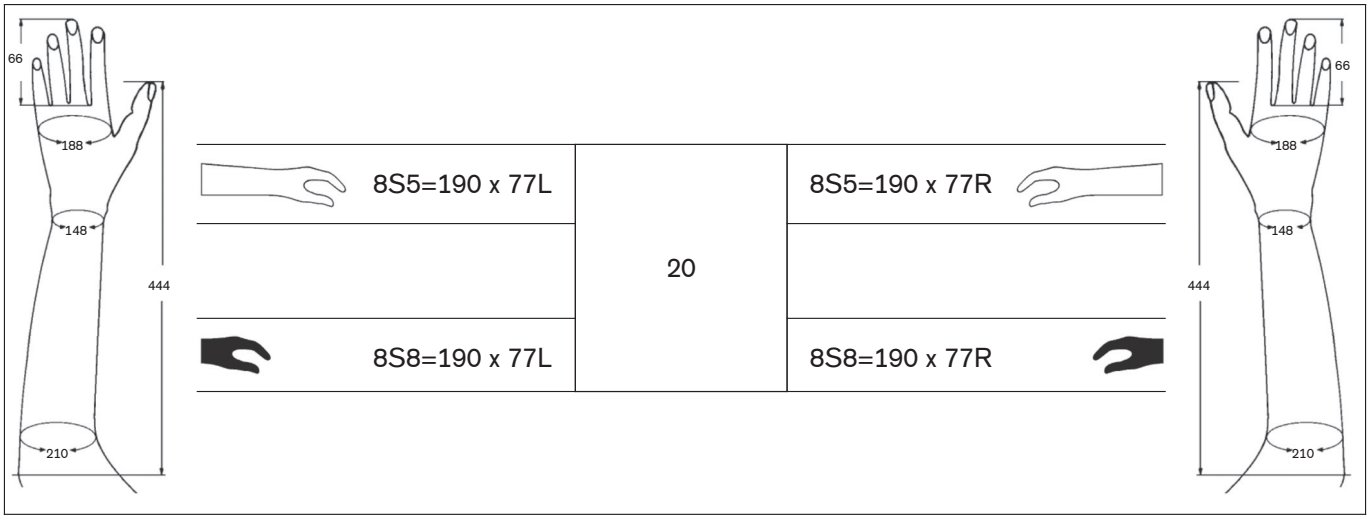

73
179
154
290
204
8S5=182 x 84L
8S8=182 x 84L
28
8S5=190 x 84R
8S8=190 x 84R
73
179
154
290
204

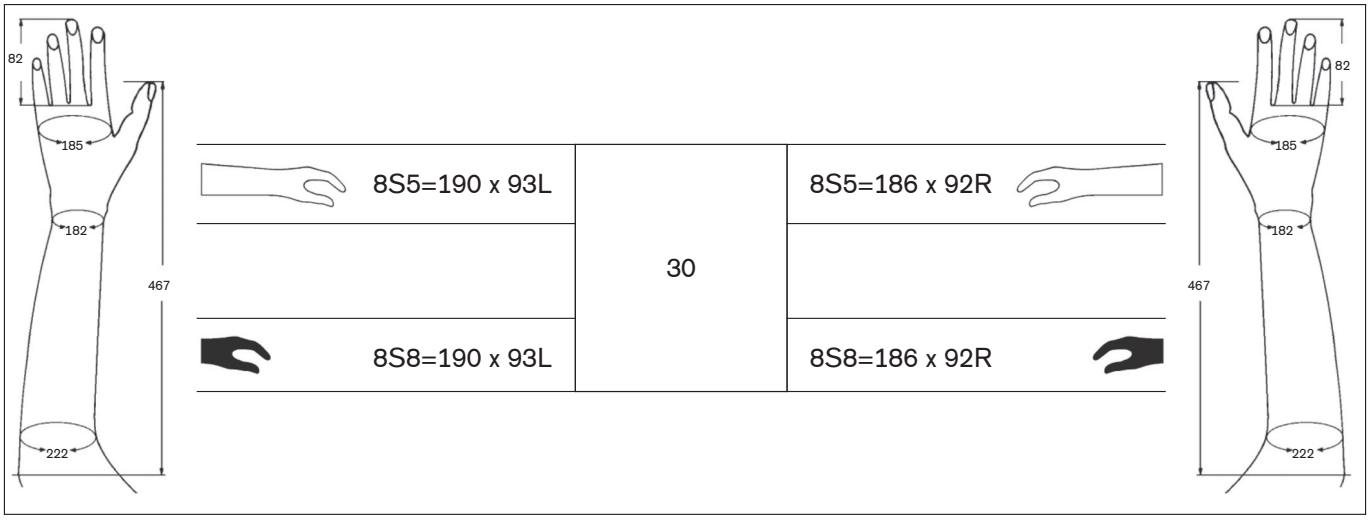

66
180
149
461
226
8S5=184 x 75L
8S8=184 x 75L
36
8S5=187 x 74R
8S8=187 x 74R
66
180
149
461
226

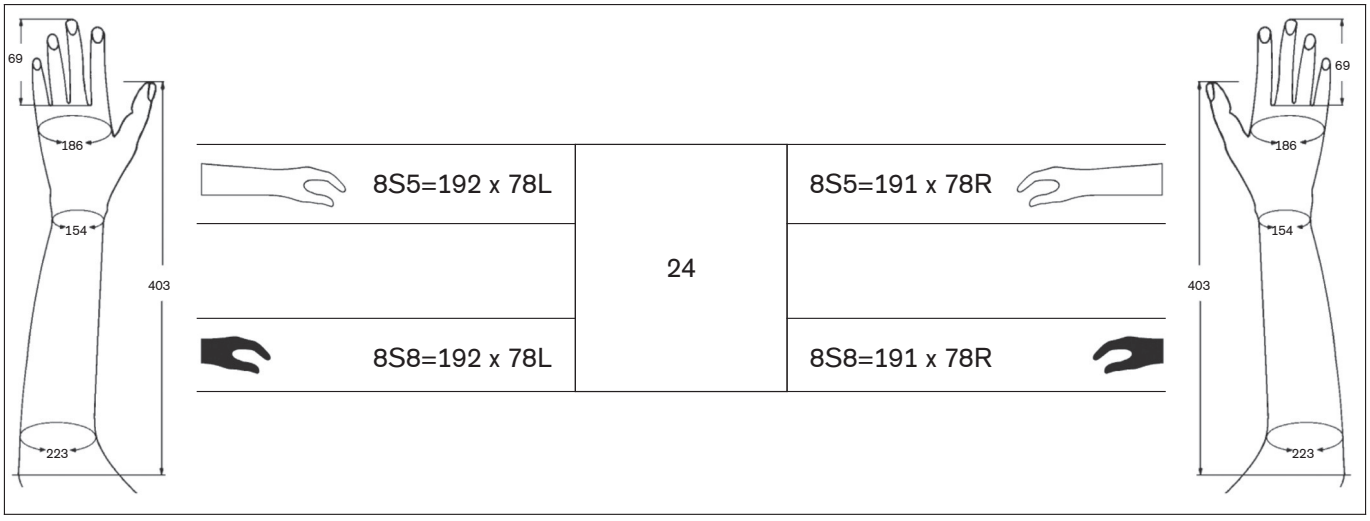

70
182
155
400
221
8S5=184 x 78L
8S5=184 x 78R
37
8S8=184 x 78L
8S8=184 x 78R
70
182
155
400
221

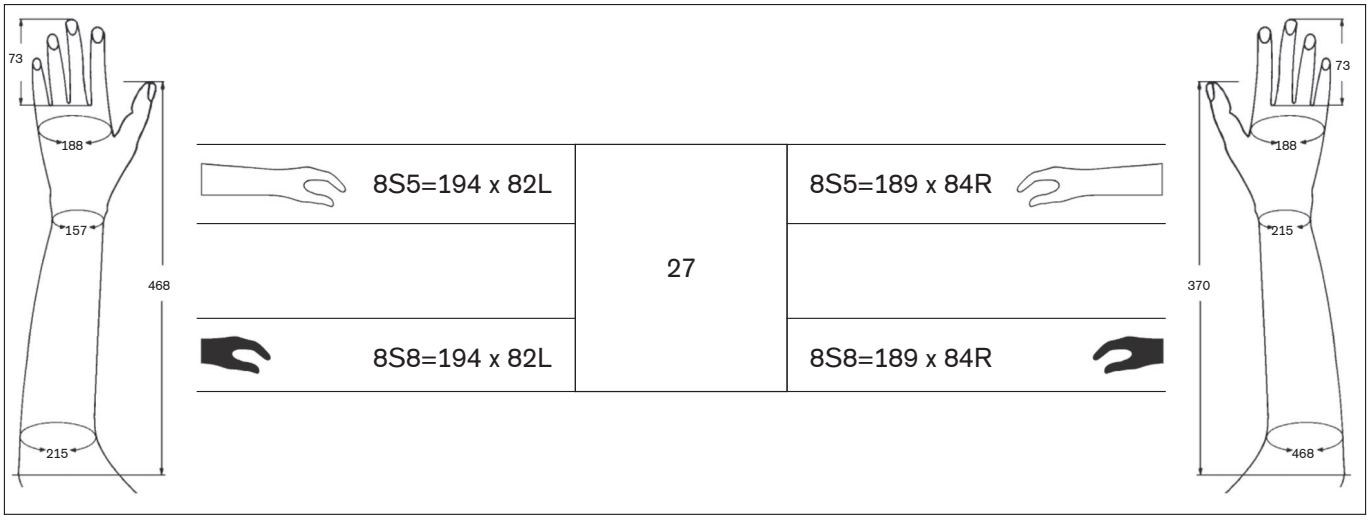

70
180
152
402
202
8S5=185 x 75L
8S8=185 x 75L
23
8S5=181 x 75R
8S8=181 x 75R
70
180
152
402
202

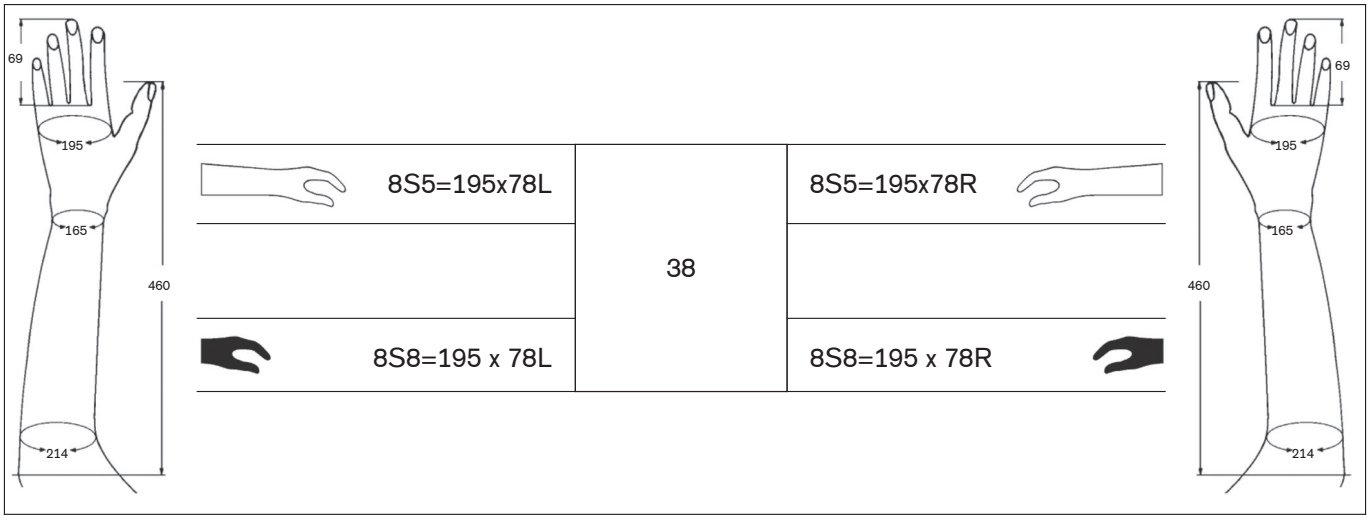

77
185
163
433
225
8S5=188 x 79L
8S8=188 x 79L
70
8S5=187 x 79R
8S8=187 x 79R
77
185
163
433
225

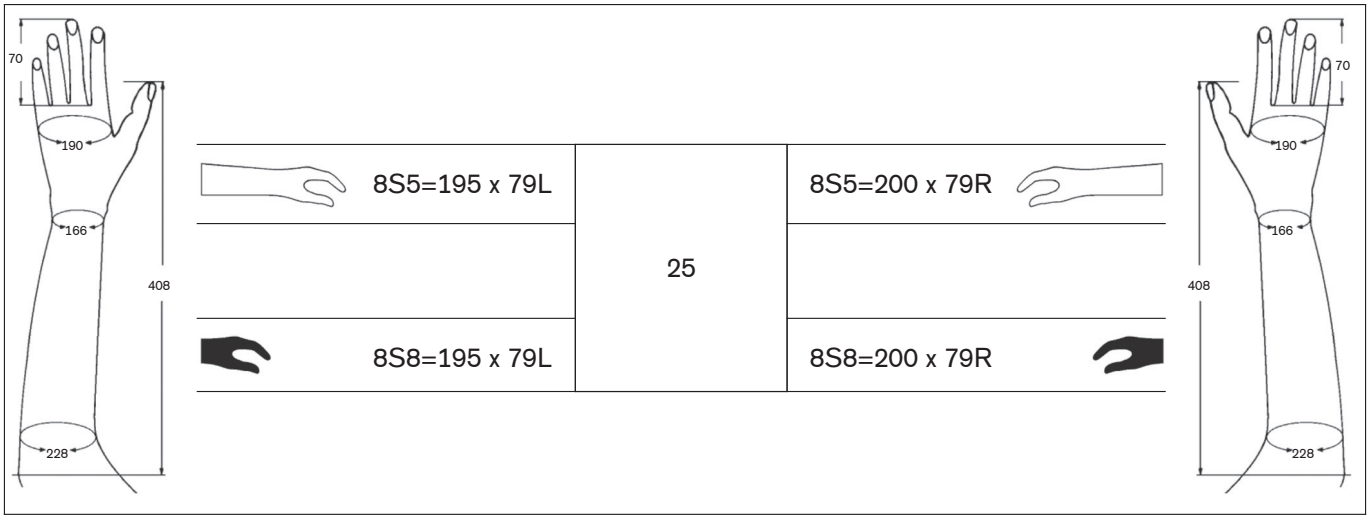

66
188
148
444
210
8S5=190 x 77L
8S8=190 x 77L
20
8S5=190 x 77R
8S8=190 x 77R
66
188
148
444
210

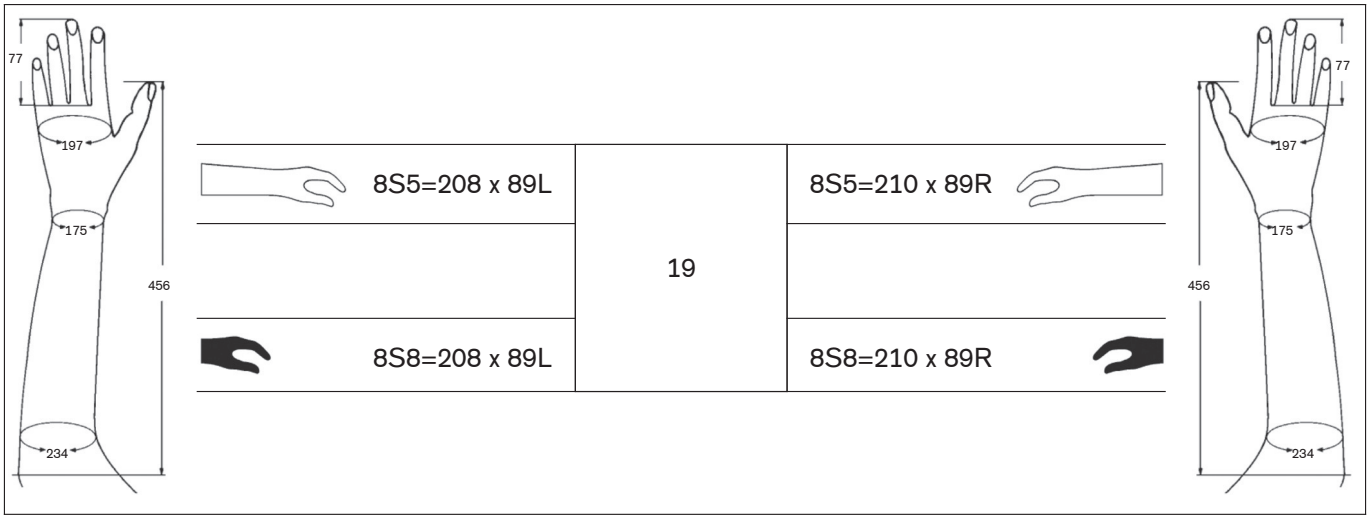

82
185
182
467
222
8S5=190 x 93L
8S5=186 x 92R
30
8S8=190 x 93L
8S8=186 x 92R
82
185
182
467
222

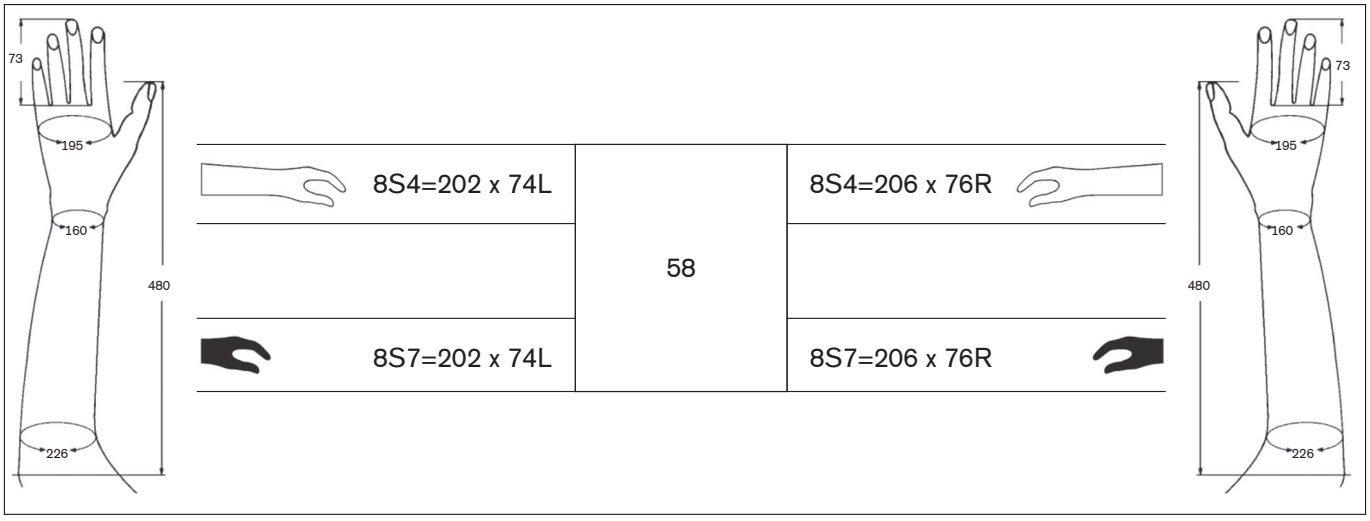

69
186
154
403
223
8S5=192 x 78L
8S8=192 x 78L
24
8S5=191 x 78R
8S8=191 x 78R
69
186
154
403
223

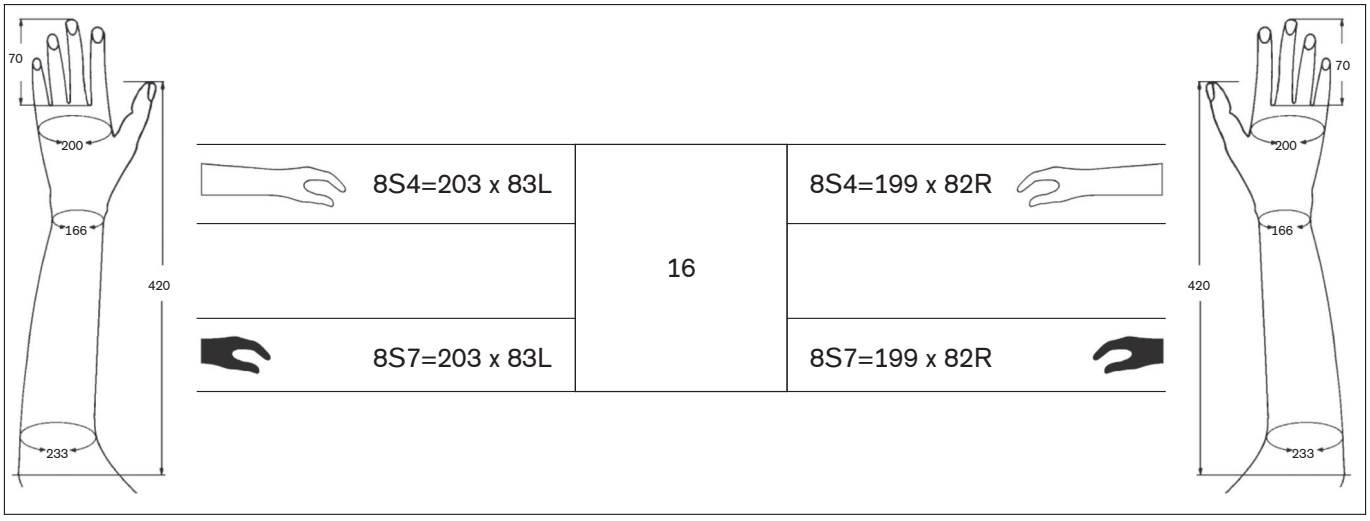

73
188
157
468
215
8S5=194 x 82L
8S8=194 x 82L
27
8S5=189 x 84R
8S8=189 x 84R
73
188
215
370
468

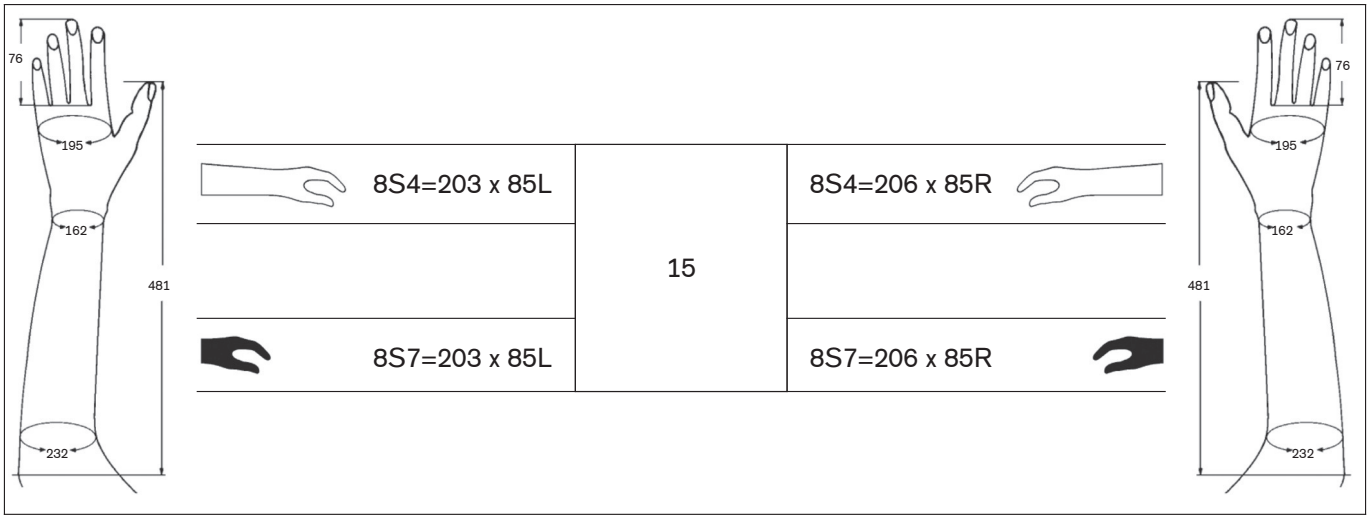

69
195
165
460
214
8S5=195x78L
8S8=195 x 78L
38
8S5=195x78R
8S8=195 x 78R
69
195
165
460
214

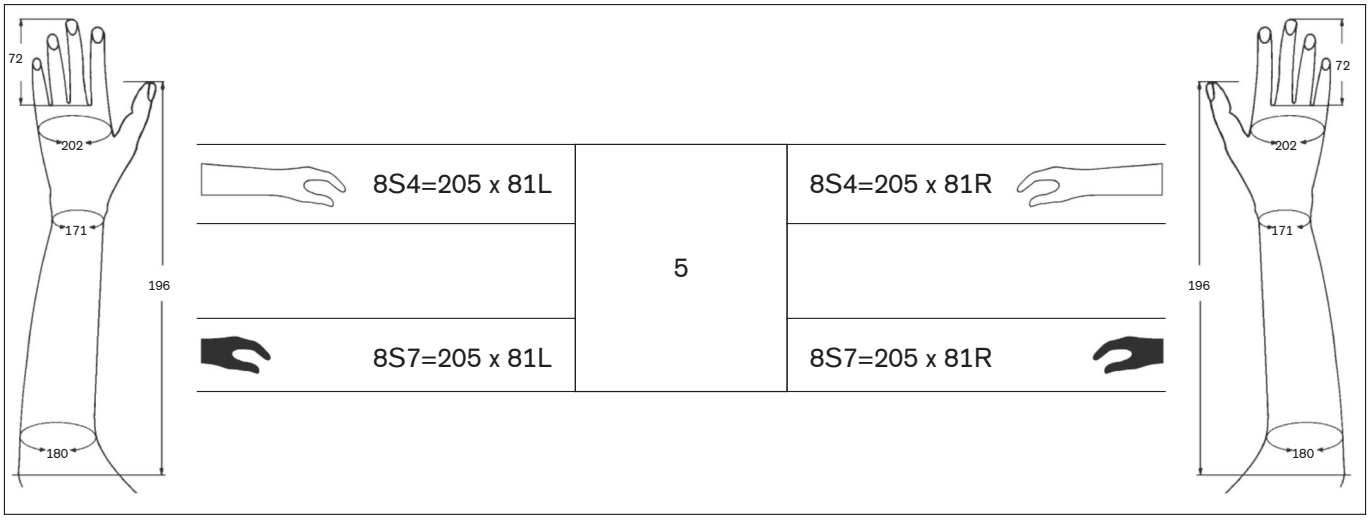

70
190
166
408
228
8S5=195 x 79L
8S8=195 x 79L
25
8S5=200 x 79R
8S8=200 x 79R
70
190
166
408
228

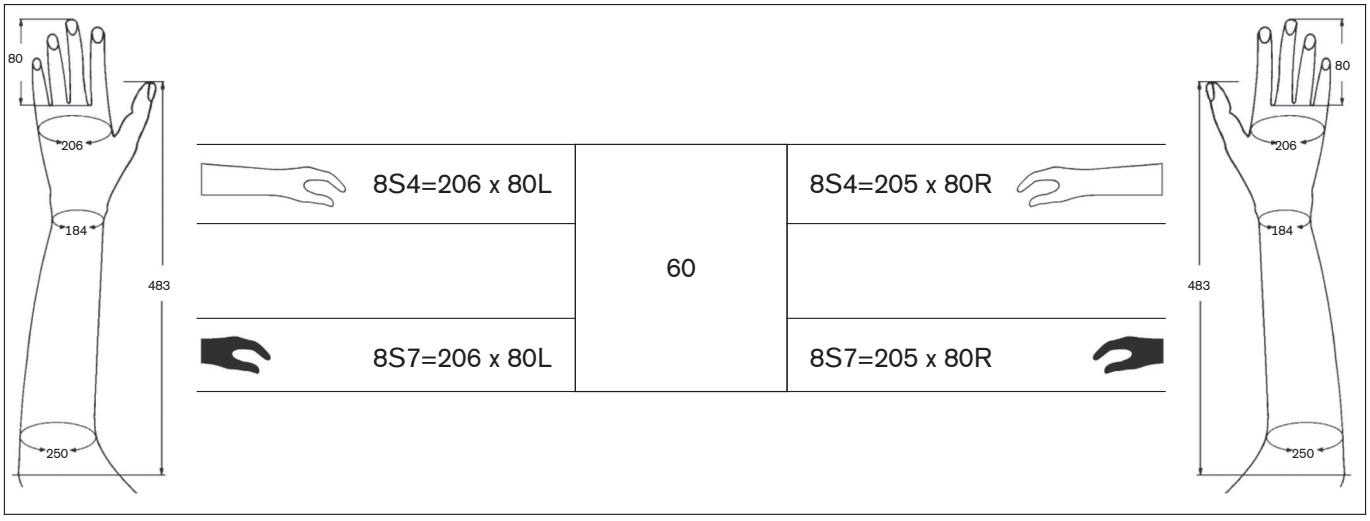

77
197
175
456
234
8S5=208 x 89L
8S8=208 x 89L
19
8S5=210 x 89R
8S8=210 x 89R
77
197
175
456
234

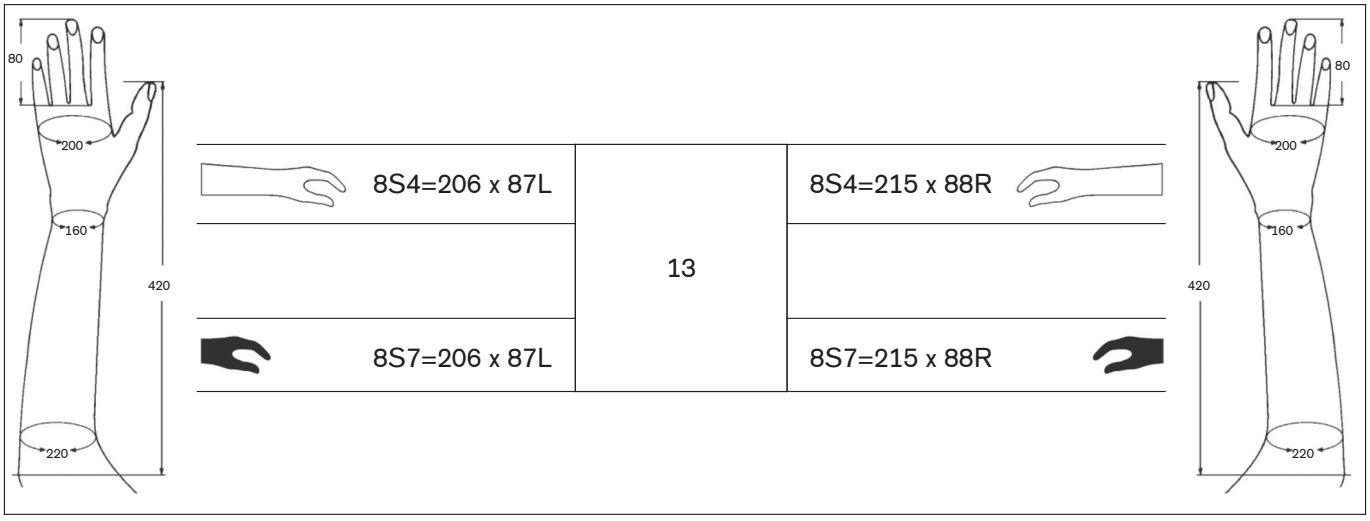

73
195
160
480
226
8S4=202 x 74L
8S7=202 x 74L
58
8S4=206 x 76R
8S7=206 x 76R
73
195
160
480
226

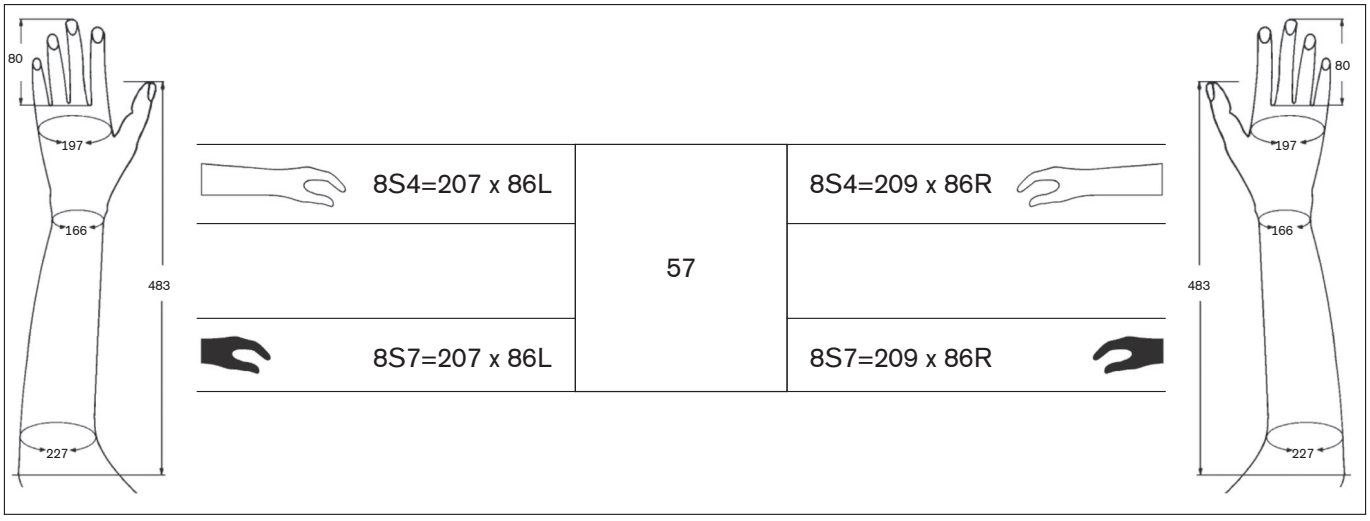

70
200
166
420
233
8S4=203 x 83L
8S7=203 x 83L
16
8S4=199 x 82R
8S7=199 x 82R
70
200
166
420
233

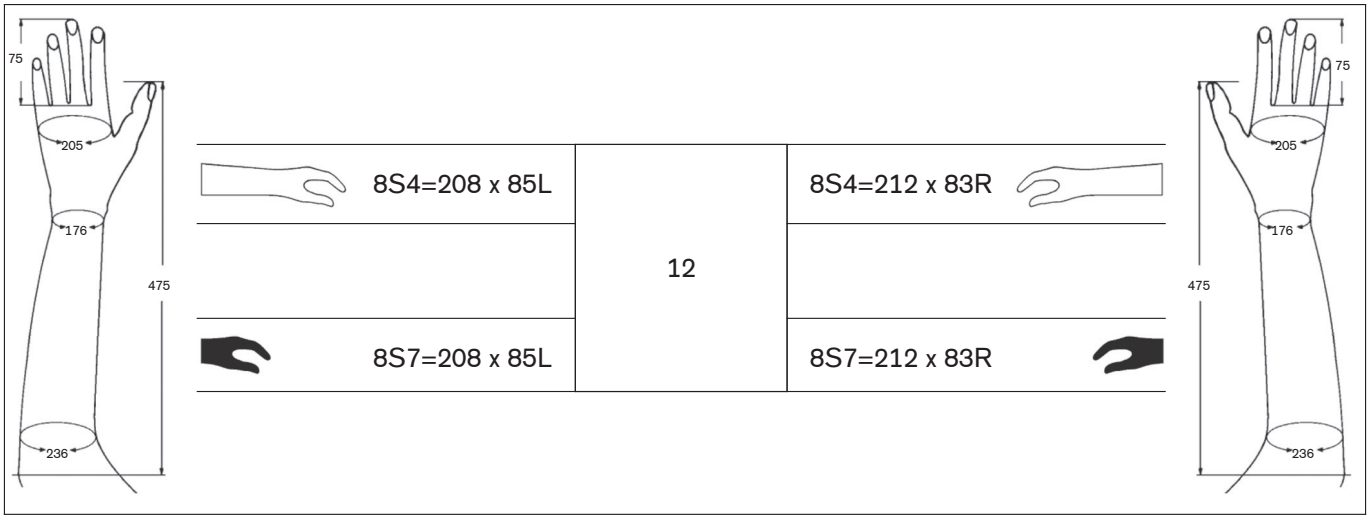

76
195
162
481
232
8S4=203 x 85L
8S7=203 x 85L
15
8S4=206 x 85R
8S7=206 x 85R
76
195
162
481
232


72
202
171
196
180
8S4=205 x 81L
8S7=205 x 81L
5
8S4=205 x 81R
8S7=205 x 81R
72
202
171
196
180


80
206
184
483
250
8S4=206 x 80L
8S7=206 x 80L
60
8S4=205 x 80R
8S7=205 x 80R
80
206
184
483
250


80
200
160
420
220
8S4=206 x 87L
8S7=206 x 87L
13
8S4=215 x 88R
8S7=215 x 88R
80
200
160
420
220


80
197
166
483
227
8S4=207 x 86L
8S7=207 x 86L
57
8S4=209 x 86R
8S7=209 x 86R
80
197
166
483
227


75
205
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475
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8S7=208 x 85L
12
8S4=212 x 83R
8S7=212 x 83R
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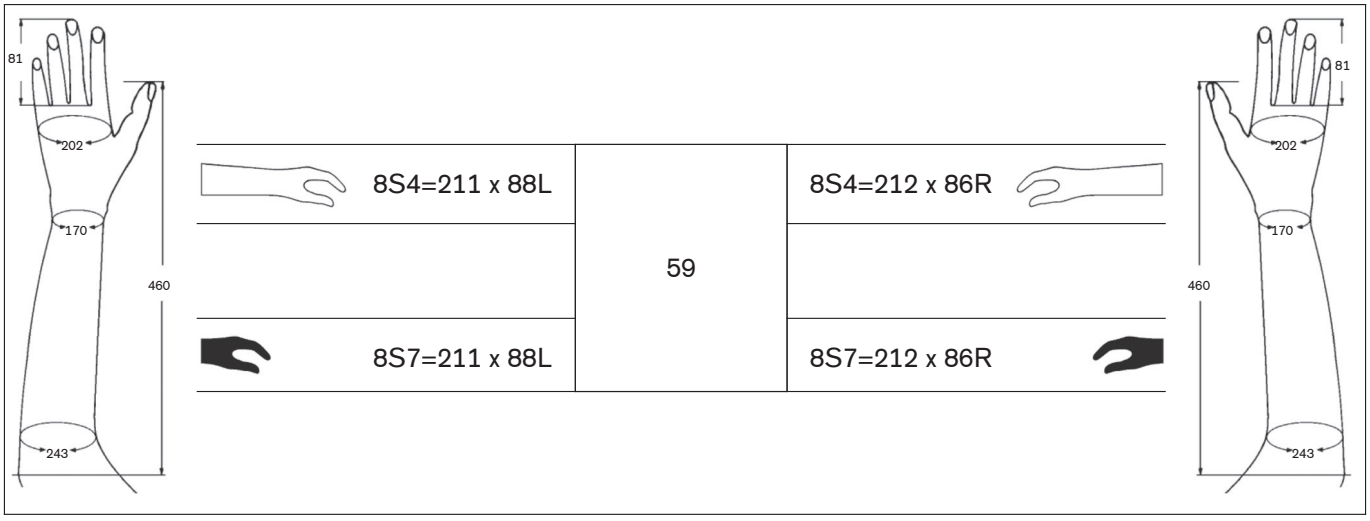
205
176
475
236


81
202
170
460
243
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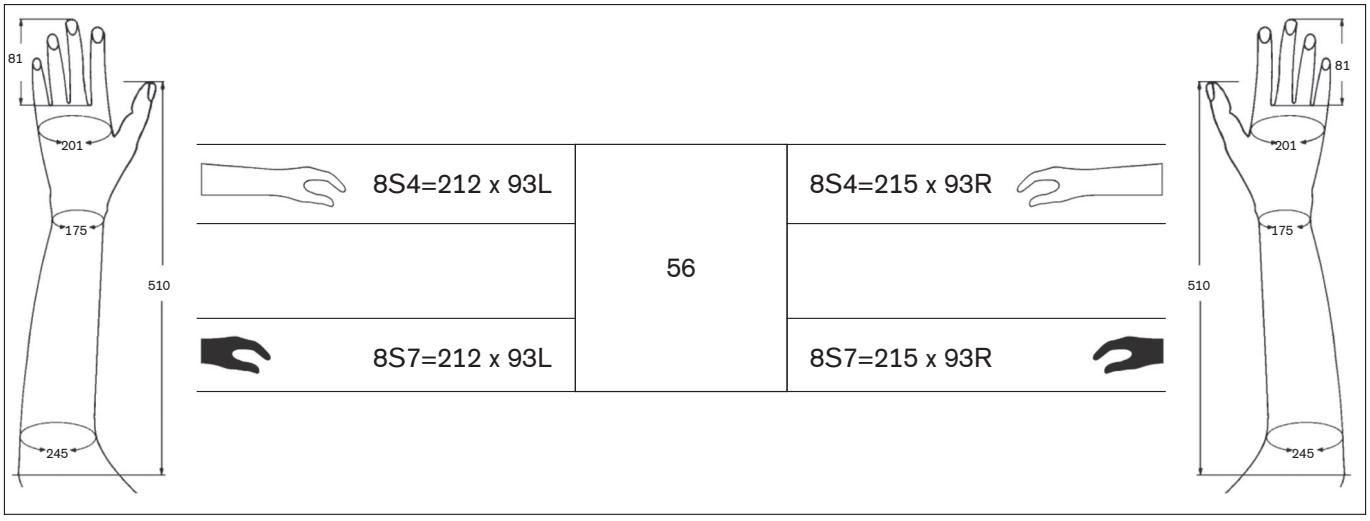
8S7=211 x 88L
59
8S4=212 x 86R
8S7=212 x 86R
81
202
170
460
243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8S4=215 x 93R
8S7=212 x 93L
8S7=215 x 93R
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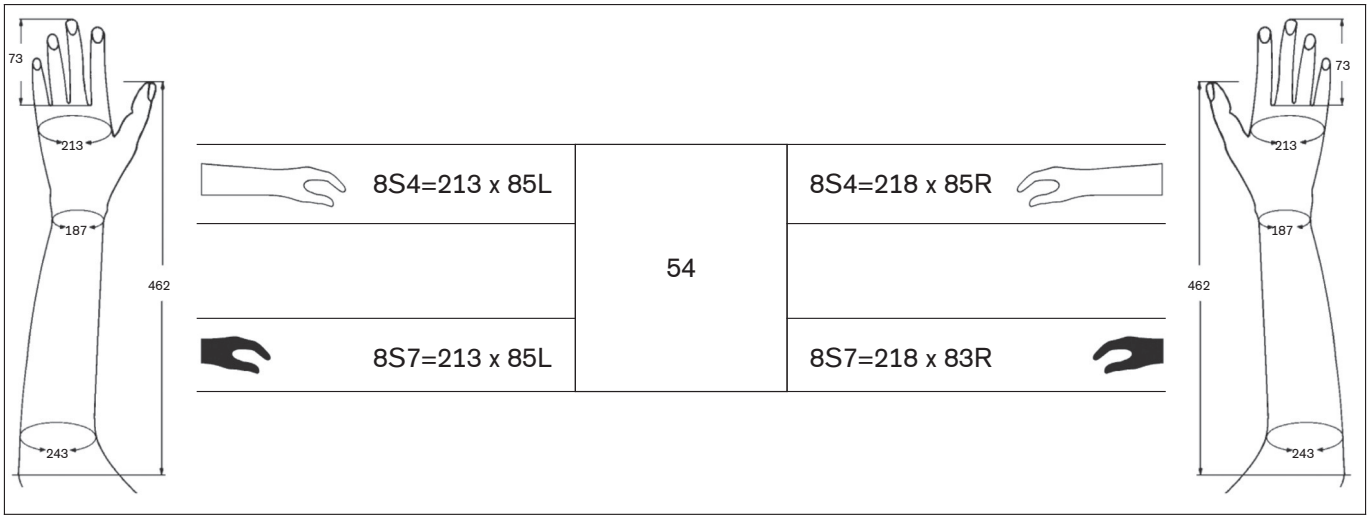
175
510
245


73
213
187
462
243
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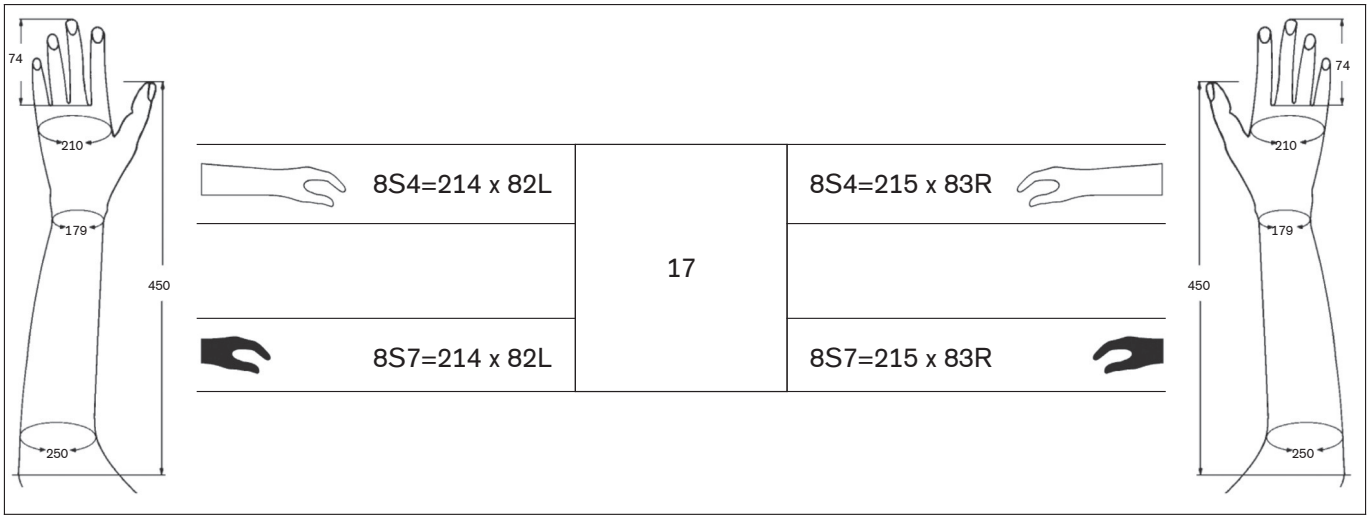
8S7=213 x 85L
54
8S4=218 x 85R
8S7=218 x 83R
73
213
187
462
243


74
210
179
450
250
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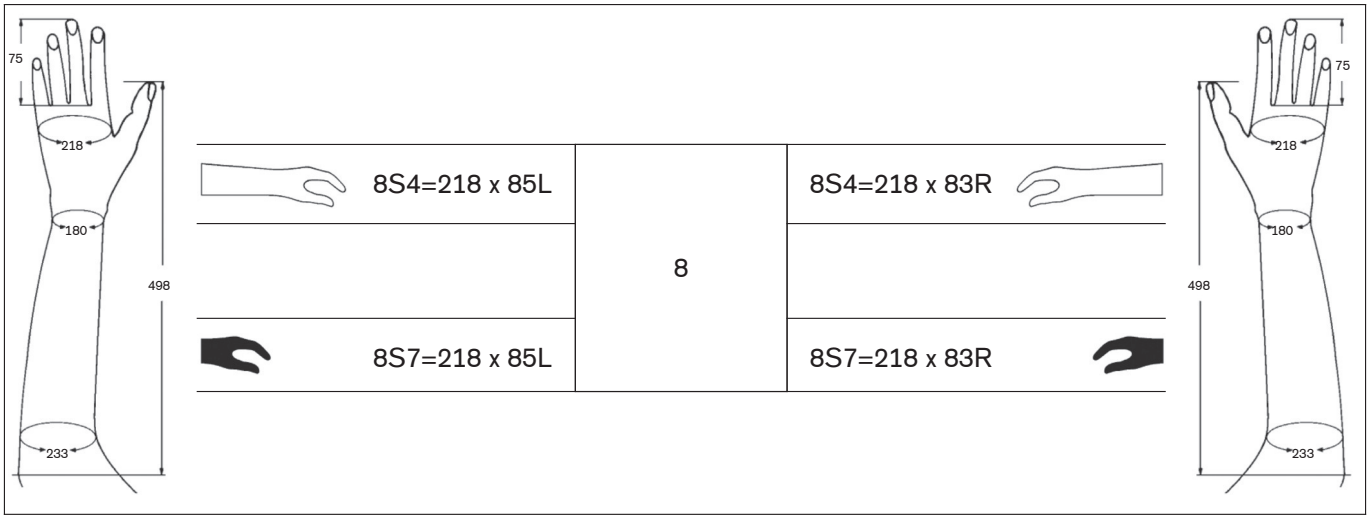
8S7=214 x 82L
17
8S4=215 x 83R
8S7=215 x 83R
74
210
179
450
250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8S7=218 x 83R
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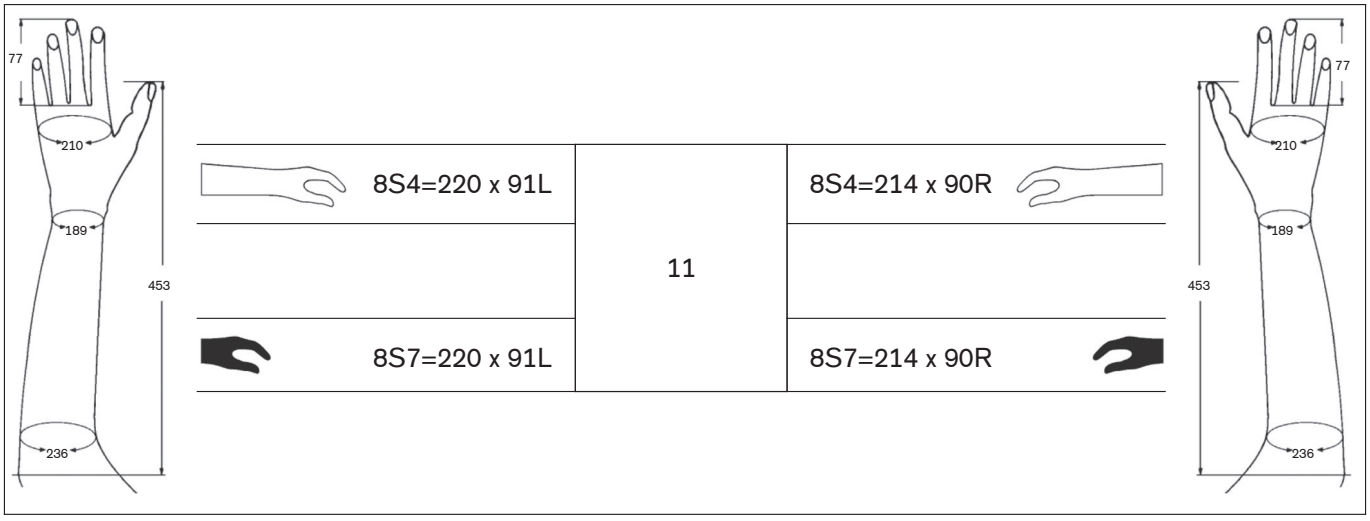
180
498
233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210
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8S7=220 x 91L
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8S4=214 x 90R
8S7=214 x 90R
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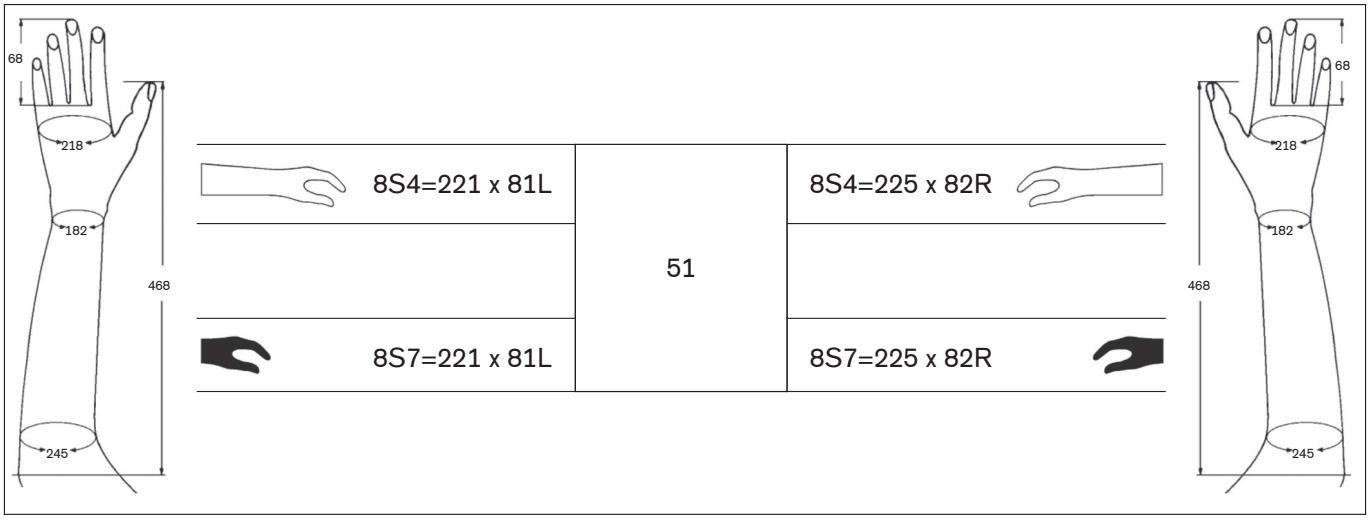
210
189
453
236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218
182
468
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8S7=221 x 81L
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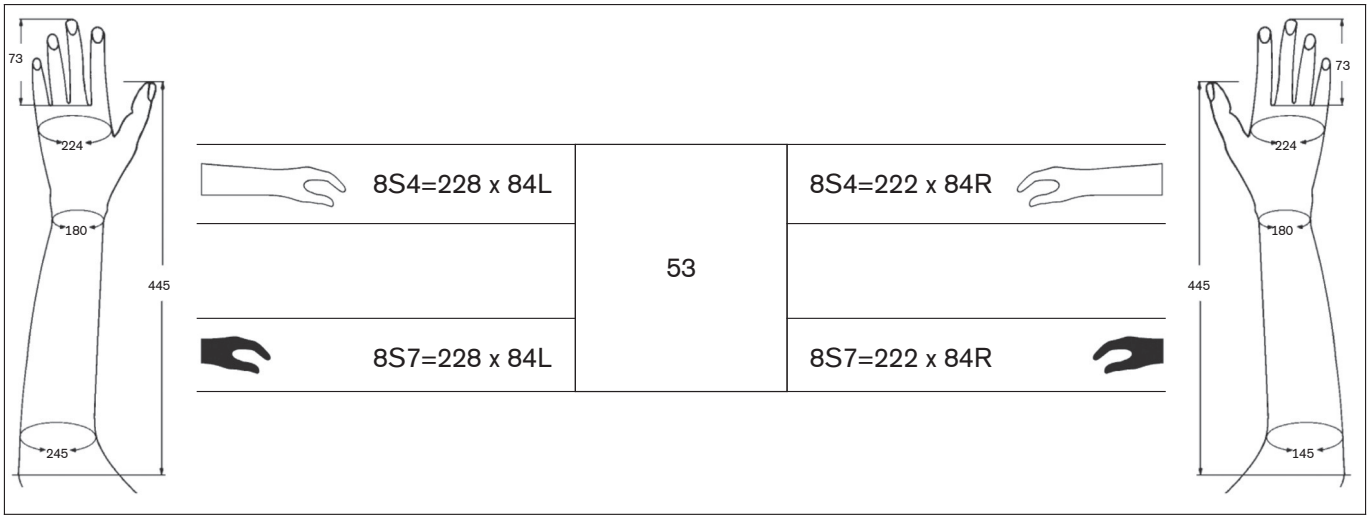
8S4=225 x 82R
8S7=225 x 82R
68
218
182
468
245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224
180
445
245
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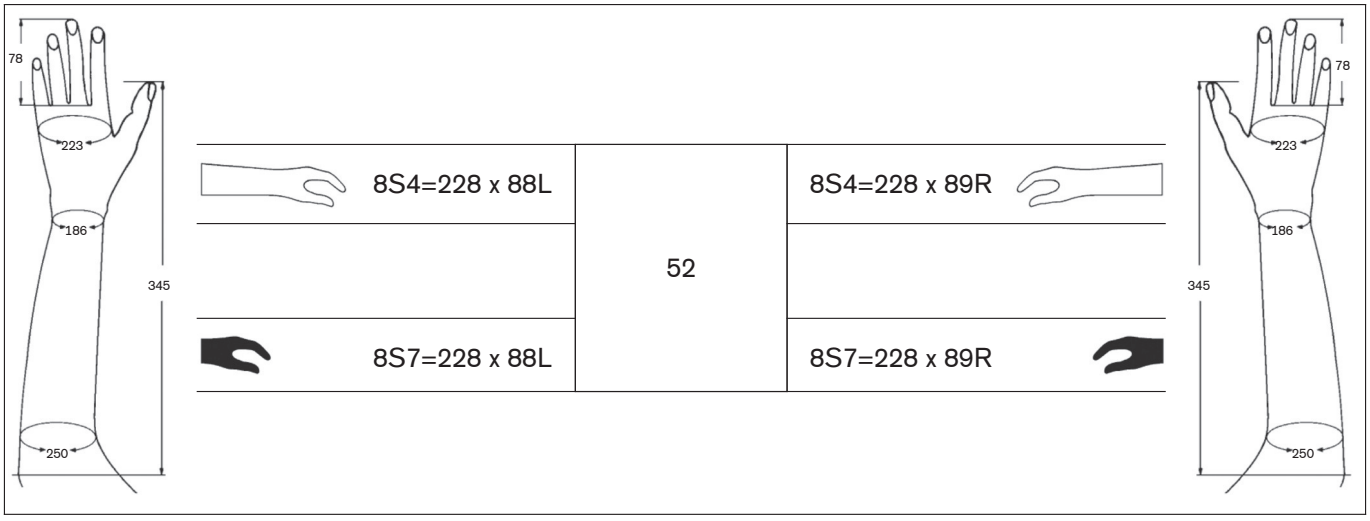
8S7=228 x 84L
53
8S4=222 x 84R
8S7=222 x 84R
73
224
180
445
145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8S4=228 x 89R
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8S7=228 x 88L
8S7=228 x 89R
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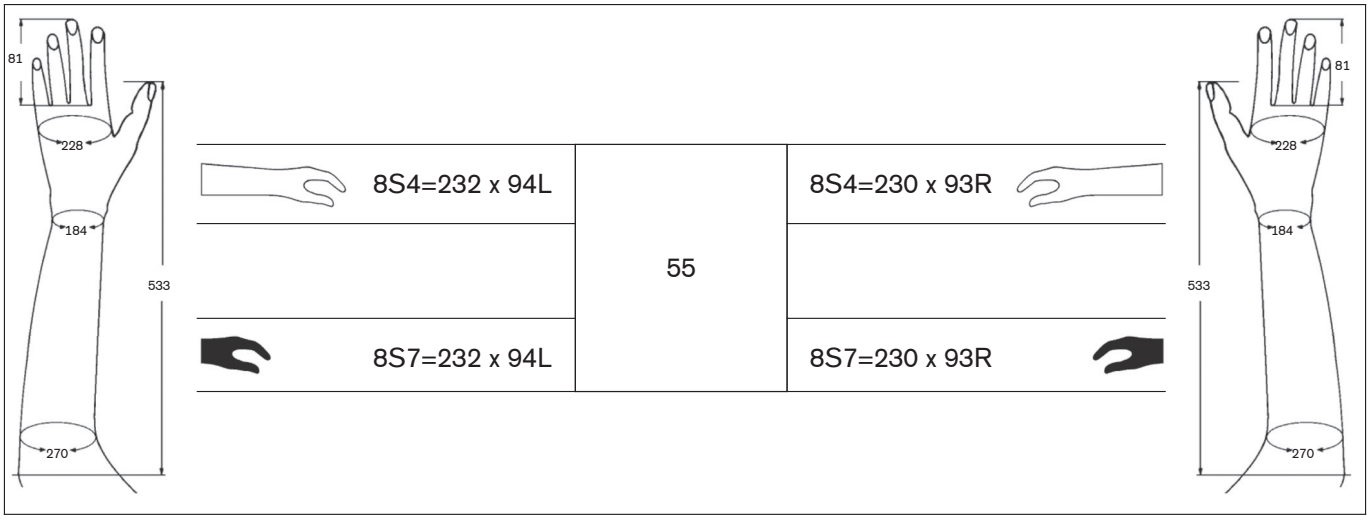
186
345
250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228
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533
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8S4=232 x 94L
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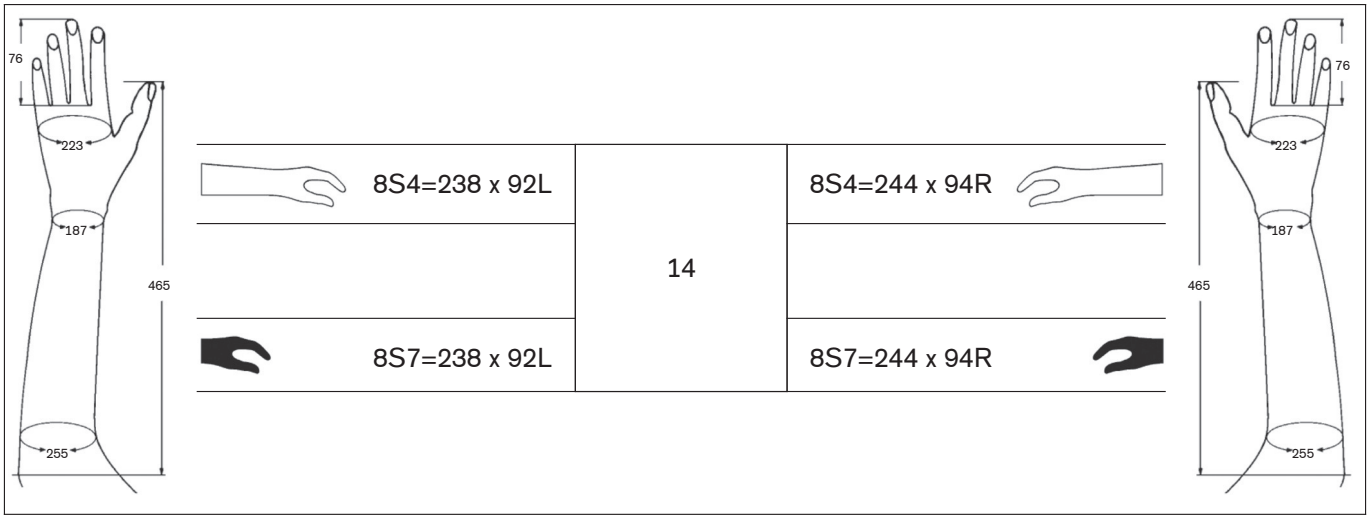
8S4=230 x 93R
8S7=232 x 94L
8S7=230 x 93R
81
228
184
533
270


76
223
187
465
255
8S4=238 x 92L
8S7=238 x 92L
14
8S4=244 x 94R
8S7=244 x 94R
76
223
187
465
255

8K5 Physolino Babyhand

For babies and infants, made of medical silicone; hand circumference approx. 110 mm, finger length approx. 40 mm; the colour approximately corresponds to colour no. 4, 11, or 16 of Ottobock's colour scale for prosthetic gloves,
with the 11D31 lamination ring, Ø 24 mm

Article number	Side	Approximately corresponds to colour no.
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

743Y42 Lamination Dummy for Physolino Babyhand
For matching prosthetic gloves, see Page 306

647G360

Physo Wrist Units

11D31 Lamination Ring for Physolino Baby Hand

Article number	Ø	for
11D31	24 mm	socket replacements

10A40 Wood Hand Adapter

for connecting the passive inner hand with the forearm socket

Article number	Complete with
10A40	threaded stud made of plastic, M12x1.5

10A41 Threaded Stud

For connecting inner hand to wrist units without rachet

Article number	Complete with
10A41	threaded stud M12x1.5

Liner

ArmLiner

647H323

14Y1 Silicon ArmLiner

Residual limb encasement 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 arm prosthetics, clearly improves wear comfort, ensures good residual limb adhesion and reduces frictional forces. With an adequate residual limb length, it is possible to do without an elbow envelopment. This enables unrestricted pronation and supination.

For the fitting of below-elbow and above-elbow residual limbs.

Silicone offers particular advantages:

- Temperature resistant from -60 □ to +200 □
- Resistant to water, sweat and weather
- Neutral smell and taste
- High gas permeability
- Good adhesion

Article number	Length	Scope 1	Scope 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

To select the right ArmLiner, the residual limb circumference is measured 3 cm before the distal and proximal end of the residual limb

14A1 Lock Set

For attaching a 14Y1 Ottobock Silicone ArmLiner to the prosthetic socket

Spare parts for 14A1

14A110 Lock with Release Pin

14A107 Pin

Article number	Length
14A107	23 mm

Accessoires for 14Y1

453H10 Derma Clean

- For the skin, prosthesis, orthosis and liner
- Cleans gently and reliably
- Ph-neutral, free of alkali and phosphates
- Anti-bacterial formula
- 453H10=1-N (1 bottle)

Article number	Order by	Content
453H10	6 bottles	300 ml

453H12 Derma Prevent

- Prevents chafing
- Inhibits contact with external allergens
- Covers the skin with a protective coating and leaves it soft and supple
- Inhibits perspiration and odour formation through the individual release of an active substance
- 453H12=1 (1 bottle)

Article number	Order by	Content
453H12	6 bottles	100 ml

453H14 Derma Repair

- Moisturises and promotes the regeneration of dry, irritated skin
- Reduces the effects of excessive strain and soothes irritated skin
- Antibacterial formula, restores the skin's defences against harmful environmental influences
- Regulates moisture and makes the skin noticeably more supple and elastic
- Enhances skin function, promotes blood circulation in the skin and supports cell growth
- Contains panthenol and vitamin E
- 453H14=1 (1 bottle)

Article number	Order by	Content
453H14	6 bottles	200 ml

Accessoires for 14A1

14A107 Pin

Article number	Length
14A107=1	28 mm
14A107=2	200 mm

14A111 Dummy Set

For aligning a prosthesis with Ottobock Silicone ArmLiner

Article number	Consists of:
14A111	Pin dummy with thread Pin dummy without thread Shaped dummy for lamination ring

640F18 Spray for Donning Silicone Liners

Article number	Content
640F18	45 ml

640F18=900 Refill Packge

Article number	Content
640F18=900	900 ml

Body harnesses and accessories

Triple-Control Above-Elbow Harness

21A35=1 Triple-Control Above-Elbow Harness

For fixing the prosthetic socket as well as controlling body-powered prostheses, for right and left side fittings, with perlon cable

Article number	21A35=1
Complete with	Perlondraht

21A13=3 Connection Piece for Cable-Activated Hook

Article number	for	Package
21A13=3	10Y32	Perlon Cable

Spare parts for 21A35=1

21A37=1 Bowden cable

Article number	21A37=1
Spiral length	500 mm

10Y31 Ball-Shaft Adapter

Forms a connection element with 10Y32 coupler

Article number	Suitable for
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

10Y32 Coupler

Forms a connection element with 10Y31=* ball-shaft adapter

Article number	Suitable for
10Y32=1	21A18=2 Perlon cable
10Y32=2	651D4=2 Steel cable

21Y194 Ring

Harness ring with integrated cable guide

21Y195=25 Stainless Steel Buckle

For positioning and fixing the harness strap

21Y197=1 Connecting Bracket

Article number	Colour
21Y197=1	white

21A38 Axilla Pad Set

Article number	Colour	Content
21A38	white	5 pc.

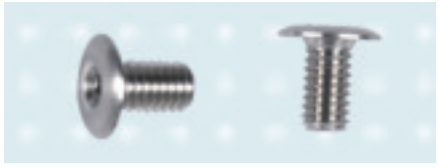
21Y199 Strap Buckle

Article number	for	Consists of:
21Y199	seamless connection of the 623G23 elastic harness strap to the prosthetic socket	Covering Lower part Upper part Spacer sleeve

21Y203 Spacer Sleeve

Technical Data

Article number	21Y203
for	21Y199 Strap Buckle



2:1

503F3 Socket Screw with Allen head

Socket Head Screw (2 pieces)

Article number	Thread	Head Ø	Thread length
503F3	M4	8 mm	7 mm

623G23 Elastic Harness Strap

Article number	Colour	Length	Complete with
623G23	white	RM	tunnel-shaped cable guide

623H23 Harness Strap

Article number	Colour	Length
623H23	white	RM

21A18 Nylon wire

Article number	Ø	Length	Order by
21A18=2X1	2 mm	1 m	lfm
21A18=2X5	2 mm	5 m	lfm
21A18=2X10	2 mm	10 m	lfm
21A18=2X25	2 mm	25 m	lfm

29C5 Setting Nut

Article number	Thread	Length	Head Ø	Shoulder Ø
29C5=M4x9	M4	3.6 mm	9 mm	5.5 mm

2:1

Technical Data

Article number	29C5=M4x9
Material	Stainless steel

Below-Elbow Harness

21A36=1 Below-Elbow Harness

For fixing the prosthetic socket as well as controlling body-powered prostheses, for right and left side fittings,
with perlon cable

Spare parts for 21A36

21A37=1 Bowden cable

Article number	21A37=1
Spiral length	500 mm

10Y31 Ball-Shaft Adapter

Forms a connection element with 10Y32 coupler

Article number	Suitable for
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

10Y32 Coupler

Forms a connection element with 10Y31=* ball-shaft adapter

Article number	Suitable for
10Y32=1	21A18=2 Perlon cable
10Y32=2	651D4=2 Steel cable

21Y194 Ring

Harness ring with integrated cable guide

21Y195=25 Stainless Steel Buckle

For positioning and fixing the harness strap

21Y197=2 Connecting Bracket

Article number	Colour
21Y197=2	white

21A38 Axilla Pad Set

Article number	Colour	Content
21A38	white	5 pc.

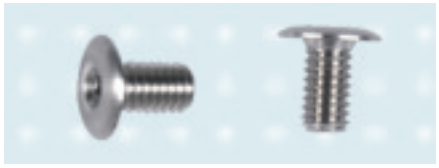
21Y199 Strap Buckle

Article number	for	Consists of:
21Y199	seamless connection of the 623G23 elastic harness strap to the prosthetic socket	Covering Lower part Upper part Spacer sleeve

21Y203 Spacer Sleeve

Technical Data

Article number	21Y203
for	21Y199 Strap Buckle



2:1

503F3 Socket Screw with Allen head

Socket Head Screw (2 pieces)

+ For universal fastening applications
+ Stainless steel
+ Flat head so that there is little bulging
+ Allen head ensure there are no sharp edges as is the case with slotted screws

Article number	Thread	Head Ø	Thread length
503F3	M4	8 mm	7 mm

623G23 Elastic Harness Strap

Article number	Colour	Length	Complete with
623G23	white	RM	tunnel-shaped cable guide

623H23 Harness Strap

Article number	Colour	Length
623H23	white	RM

21A18 Nylon wire

Article number	Ø	Length	Order by
21A18=2X1	2 mm	1 m	lfm
21A18=2X5	2 mm	5 m	lfm
21A18=2X10	2 mm	10 m	lfm
21A18=2X25	2 mm	25 m	lfm

29C5=M4x9 Setting Nut

Article number	Thread	Length	Head Ø	Shoulder Ø
29C5=M4x9	M4	3.6 mm	9 mm	5.5 mm

Body Harnesses 21A20 / 21A19

21A20 Below-Elbow Harness

Complete

Article number	Harness design
21A20=1	Nylon
21A20=2	Steel rope

21A19 Above-Elbow Harness

Triple-Control Harness, complete

Article number	Harness design
21A19=1	Nylon
21A19=2	Steel rope

Spare parts for body harnesses

10Y3 Cable clamp

10Y25 Clamp Sleeve, short

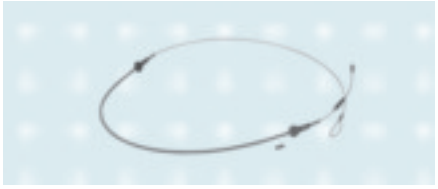
To be clamped to the 651D4=2 steel cable

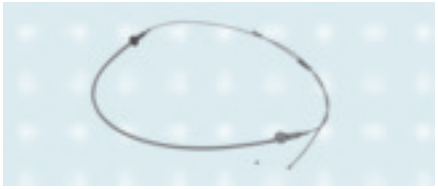
10Y26 Clamp Sleeve, long

To be clamped to the 651D4=2 steel cable

21A3 Above-Elbow Cable Control Unit, complete

Article number	Harness design
21A3=1	Nylon
21A3=2	Steel rope





Technical Data

Reference Number	21A3
Spiral length	500 mm
Complete with	21A7 coupling piece and 21A13 connection piece

21A4 Below-Elbow Cable Control Unit, complete

Article number	Harness design
21A4=1	Nylon
21A4=2	Steel rope

Technical Data

Reference Number	21A4
Spiral length	300 mm
Complete with	21A7 coupling piece and 21A13 connection piece

21A5 Eyelet Cable Anchor, small

21A6 Spiral Nut

21A7 Coupling Piece

Technical Data

Article number	21A7
for	Nylon rope

21A11 Threaded Fitting, long

For screwing on the 21A18=2 perlon cable

21A12 Threaded Fitting, short

For screwing on the 21A18=2 perlon cable

Article number	Package content
21A12	2 pcs.

21A17=3.8x1000 Cable-Control Unit Spiral

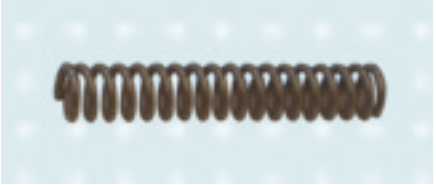
Article number	Ø
21A17=3.8x1000	3.8 mm

21A18 Nylon wire

Article number	Ø	Length	Order by
21A18=2X1	2 mm	1 m	lfm
21A18=2X5	2 mm	5 m	lfm
21A18=2X10	2 mm	10 m	lfm
21A18=2X25	2 mm	25 m	lfm

21A23 Wire Coupling

21A24 Eyelet Cable Anchor, large



21A25 Spring

Technical Data

Article number	21A25
for	21A7 coupling piece

21Y37 Cable Strap Connector

Inside width 25 mm

Article number	Inside width
21Y37	25 mm

21Y120=47 Leather Lamella

Technical Data

Article number	21Y120=47
for	straps and harnesses

623G4 Double Rubber Belt

For 29R127 Clip Fastener

Article number	Colour	Length	Width
623G4=1	gray with white stripes	1 m	30 mm
623G4=5	gray with white stripes	5 m	30 mm
623G4=10	gray with white stripes	10 m	30 mm

623H2=25x5 Carrying Strap

Article number	Colour	Length	Width
623H2=25x5	white	5 m	25 mm

651D4=2 Steel Cable

Article number	651D4=2
Complete with	plastic cover

Accessories for body harnesses

21A21=* Above-Elbow Cable Control Unit,

Article number	Harness design
21A21=1	Nylon
21A21=2	Steel rope

Technical Data

Reference Number	21A21=*
Spiral length	500 mm
Complete with	21A23 wire coupling

21A22=* Below-Elbow Cable Control Unit, complete

Article number	Harness design
21A22=1	Nylon
21A22=2	Steel rope

Technical Data

Reference Number	21A22=*
Spiral length	300 mm
Complete with	21A23 wire coupling

16H1 Flexible Elbow Joint Connection

"V"-shape

Article number	Complete with
16H1	three-point suspension

16H2 Flexible Joint Splints

pair

Technical Data

Article number	16H2
for	below-elbow prostheses

501S28 Flat head screw

nickel-plated

Technical Data

Article number	501S28=M3.5x5
for	16H1 and 16H2

21A5 Eyelet Cable Anchor, small

21A16 “D” Ring

Article number	Inside width
21A16	13 mm

Technical Data

Article number	21A16
for	lastic strap

503F3 Socket Screw with Allen head

Socket Head Screw (2 pieces)

2:1

Article number	Thread	Head Ø	Thread length
503F3	M4	8 mm	7 mm

507S15 Lamination Disk, serrated

Lamination Plate with hole (2 pieces)

2:1

Article number	Outside Ø	Hole Ø
507S15	13.8 mm	3 mm

516S3 Pad Screw Head

Brass, nickel plated,

2:1

Article number	Thread	Thread length
516S3	M4	5.5 mm

514Z3=25 Loop

Article number	Inside width
514Z3=25	25 mm

514K3=27 Clamp Buckle

504H3=11 Hollow Rivet

nickel-plated, open end

Article number	Head Ø	Material
504H3=11	11 mm	Brass

10Y19=1 Screw Coupling

Connection piece between perlon cable and steel cable as well as steel cable and steel cable.

Article number	Consists of:
10Y19=1	coupling sleeve fixed coupling screw, to be attached to the 651D4=2 steel cable.

10Y19=2 Screw Coupling

Connection piece between steel cable and perlon cable or spectra cable and between perlon cable and perlon cable or spectra cable.

Article number	Consists of:
10Y19=2	coupling sleeve coupling screw, to be screwed to the 21A18=* perlon cable or through which a spectra cable is to be threaded and then knotted

736Y6 Clamping Tool

For attaching the coupling screw and clamp sleeve as well as 10Y31=2 Ball-shaft Adapter and 10Y32=2 Coupler to the 651D4=2 Steel Cable

21A29 Axillary Protector

Article number	Width
21A29=18	18 mm
21A29=25	25 mm

Technical Data

Article number	21A29=18	21A29=25
for	body harnesses	body harnesses

15Y1 Sleeve Protection Pad

Rubber with leather cover

Article number	Length	Width
15Y1=16	16 cm	85 mm
15Y1=18	18 cm	85 mm

Socket Comfort, Materials & Workplace Arm Prosthetics

704B5 Mounting Vice

Tool to assist in the disassembly and reassembly

Technical Data

Article number	704B5
for	finger thumb group

709S10=2 Allen Wrench

Technical Data

Article number	709S10=2
for	503F3 Socket Screw

711M17 Pulling Unit

For easy disassembly of the 11S61 Gear Unit

711M18 Mounting Wrench

For accurately tightening the 11S2 Locking Unit
and for releasing the disengaged ball bearings

Article number	Complete with
711M18	503F3 preset torque

711M20 Alignment Rod

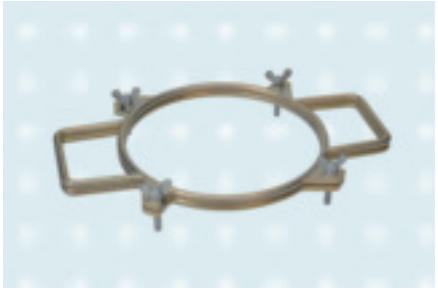
In combination with the 711M50 Mounting Adapter for installing and removing the 9E369 and 9E370 4in1 Controller LS or 9E420 7in1 Controller or for setting and releasing the 9E349 and 9E350 Electronic Control.

Article number	Complete with
711M20	Allen head

711M53 Vacuum Forming Tool

For arm prostheses

Article number	711M53
Outer Ø	26 cm



711M56 Vice Clamping Jaws

Two clamping jaws are required to equip the 704B5 Mounting Vice.

726W7=28.5 Crown Cutter

To cut electrode mounting holes

Technical Data

Article number	726W7=28.5
for	flexible mounting of electrode, in thin-walled plastic sockets

726W9 Conical Plastic Drill

made of high speed steel

Article number	Ø
726W9=14	14 mm
726W9=20	20 mm
726W9=30	30 mm

743A19 Alignment Tool

Article number	Thread	Ø	Length
743A19	M8	12 mm	169 mm

Technical Data

Article number	743A19
for	10S16 Lamination Rings
Consists of:	743Y167 Alignment Rod 743Y42=34 Foam Insert for sizes 5 and 5 1/2 743Y42=38 Foam Insert for sizes 6 and 6 1/2

743A18 Alignment Tool

Article number	Thread	Ø	Length
743A18	118	12 mm	280 mm

Technical Data

Article number	743A18
Consists of:	743Y41 Schäumeinsatz, Ø 40 mm 743Y42=45 743Y42=50 743Y42=54

- When ordering replacement inserts please state the diameter (corresponds to the outer diameter of the 10S1 Lamination Ring)

11S12 Socket Attachment Piece

For fastening the 743Y41 Alignment Rod,
For fabricating an arm prosthesis

12V10 Tube Valve for Suction Socket

In combination with the 13E202 MYOBOCK Electrode, the 12V10 Tube Valve for Suction Socket creates an airtight seal of the socket.

99B13 PVC Connection Tube

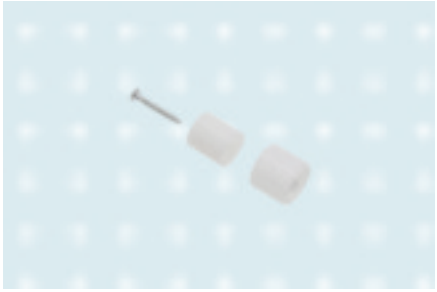
Formed to 90° angle, acts as a connection channel between the inner and outer socket

Article number	Colour	Ø
99B13=16	skin-coloured	16 mm
99B13=16-7	black	16 mm
99B13=21	skin-coloured	21 mm
99B13=21-7	black	21 mm

99B83 Tube Dummies

For fabricating vacuum formed inner sockets

Article number	Ø
99B83=16	16 mm
99B83=21	21 mm



743Y42=24 Foam Insert

can be used with alignment rod of the
743A18 Alignment Tool

Technical Data

Article number	743Y42=24
for	Physolino Babyhand

641T10=M Plaster Shirt

The Plaster Shirt can used for taking a plaster cast as part of the prosthetic arm fitting process.
The plaster shirt is suitable for upper arm residual limbs and shoulder disarticulation.

641T9=M Plaster Sock

The Plaster Sock can used for taking a plaster cast as part of the prosthetic arm fitting process.
The plaster sock is used for forearm residual limbs.

616T69 ThermoLyn soft (EVA), skin-coloured

Now also available with antibacterial features (616T269)!

For fabricating flexible arm prosthesis sockets, high shrinkage if cooled down too quickly, translucent (colour depends on skin colouring), processing temperature 160 °C in convection and infrared ovens

Article number	Colour	Length	Width
616T69=6	skin-coloured	400 mm	400 mm
616T69=8	skin-coloured	400 mm	400 mm
616T69=10	skin-coloured	400 mm	400 mm
616T69=12	skin-coloured	400 mm	400 mm

646F265=D

646A230=D
646D300=D
646D119=D

Practical recommendation:

- We recommend using the 503F3 socket screw with Allen head in combination with the 29C3 or 29C5 Setting Nut
- The 633D5 Double Sided Adhesive Tape can be used to fasten the flexible definitive inner socket within the container socket

633F11 Silicone Grease 400, medium

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 sweat. Can be applied for cast isolation.

Article number	Net contents
633F11	0.1 kg

633F14=* Special Lubricant

(Molycote Paste DX, White)

Article number	Colour	Delivery	Net contents
633F14=0.050	white	Tube	6 g
633F14=1	white	Dose	9.5 g

Technical Data

Reference Number	633F14=*
Colour	white
for	all accessible gears and axes in the System Electric Hands and Greifers

633F37=0.02 Variotrac 68

For lubricating the 9E79 Transmission,

Article number	Delivery	Net contents
633F37=0.02	Flasche	20 g

633S2 Procomfort Gel

Acts as a lubricant to aid in donning the prosthetic glove over the inner hand.

Article number	Net contents
633S2	250 ml

634A58 Isopropyl Alcohol

For cleaning sensitive plastics such as PVC, PS, ABS, acrylic, PC

Article number	Colour	Net contents
634A58	transparent	1 l

646F297=D

636W23 UHU-Plus Endfest 300 Adhesive

Two-component adhesive for strong adhesions

Article number	Colour
636W23	honey

646F297=D

Practical recommendation:

- The higher the curing temperature (up to approximately +180 °C), the higher the strength of the adhesion
- Using the 642B2 Measuring Cup has proven useful for mixing
- Can be applied with the 699Y3 Wooden Spatula

636W60 Loctite® 243

For thread lock of the electric hand, also hardens on brass, up to thread M36

Article number	Net contents
636W60	50 ml

Practical recommendation:

- Can be activated and loosened by applying heat

636K11 Cyamet Rapid Adhesive (Superglue)

For adhering silicone rubber to acrylic resin laminates

Article number	Colour	Net contents
636K11	transparent	20 g

646F297=D

636K13 Loctite® 241

Article number	Colour	Net contents
636K13	blue	50 ml

Practical recommendation:

- Can be activated and thus removed by applying heat

Loctite® is a registered trademark of Loctite.

636K14 Loctite® 601

For locking the threaded stud,
Bottle with 50 ml net contents

Article number	Colour	Delivery	Net contents
636K14	green	Flasche	50 ml

Practical recommendation:

- Can be activated and loosened by applying heat

640F12 Special Cleaner

Technical Data

Article number	640F12
for	prosthetic gloves

640F13 Spray Pump Bottle

Empty container holds 90 ml

Technical Data

Article number	640F13
for	liquids such as 640F12 Special Cleaner

9E161 Screw Cap

For retaining the transmission in the gear housing

Loctite® is a registered trademark of Loctite.

646F297=D

636W22 UHU, hard

for locking the motor,
Tube with 35 ccm net contents

Article number	Colour	Delivery	Net contents
636W22	colourless	Tube	35 ml

646F297=D

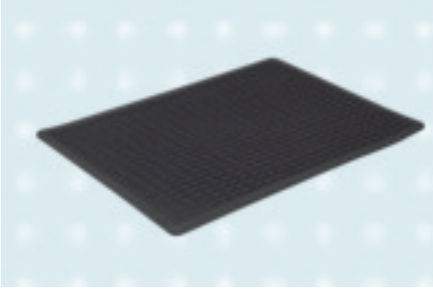
636W34 Rubber Adhesive

Article number	Colour	Net contents
636W34	beige	60 g

637L7 Resin Rapid Plumb

60% SN, Ø 1 mm,
Coil with 1/2 kg net weight

Article number	Ø	Weight
637L7	1 mm	0.5 kg



640Z6 Work Mat

642G1 Glass Bottle

Article number	for	Scope of Delivery
642G1	lubrication materials, solvents, etc	2 pcs.

706F1 Flat Nose Pliers

Article number	Length
706F1	125 mm

706R3 Universal Pliers, large

Technical Data

Article number	706R3
for	drive unit

706R4 Universal Pliers, small

Article number	Length
706R4	115 mm

706Z2 Side Cutting Pliers

Article number	Length
706Z2	120 mm

799P1 Tweezers

Article number	Length
799P1	120 mm

799P2 Tweezers

Article number	Length
799P2	155 mm

799Y1 Tool Board

709G1=7x7 Open-end Wrench

For adjustment of the slip clutch

709H1 Hook Wrenches

To assemble the 8E39 System Electric Hands with the corresponding lamination ring.
(May also be used to reset the ball bearings in the quick disconnect locking unit.)

709Z6=1.8 Special Wrench

For adjusting the drive unit

709Z7 Special Wrench

For replacing the hand cable

710H3 Precision Screwdriver Set

Blade widths: 1/1.5/1.8/2.3/2.9/3.6 mm

711M64 Donning Tool for Michelangelo

The Donning Tool 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.

710H4 Screwdriver

Article number	Blade width
710H4=3	3.0 mm
710H4=4.5	4.5
710H4=6	6.0

711M1 Assembly Tool

One side with M12x1.5 outer thread and other side with M12x1.5 outer thread for Otto Bock System Electric Hands and Michelangelo Hand

711M2 Mounting Plate

for attaching to a workbench

Technical Data

Article number	**711M2**
for	711M1 Assembly Tool

711M3 Assembly Tool

For accommodating System Electric Hands

Article number	**Complete with**	**Consists of:**
711M3	quick disconnect wrist	10S4 Coupling Piece 11S4 Lock Ring 501Z2=M6x25 Allen screw

711M5 Mounting Aid

For exchanging the DC motor and adjusting the drive unit

711M7 Mounting Aid

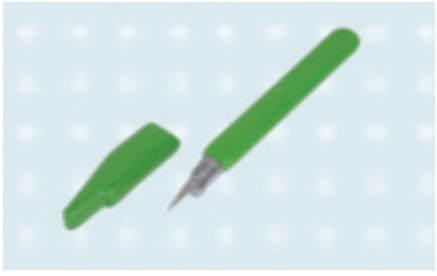
For attaching the 8E39 System Electric Hands to 711M1 Assembly Tool.
Makes putting on and removing the inner hand and cosmetic glove easier

711M12 Soldering Jig

For soldering 9E167 Plug to the coaxial bushing or the hand cable as well as for soldering the plug bushing to the motor cable

711M16 Assembly Tool

For assembling the 10S17 Electric Wrist Rotator or 10S4 Coupling Piece in the 10S1 Lamination Ring



Article number	Length
718H5	160 mm

Technical Data

Article number	718H5
Weight	0.05 kg
for	synthetic materials
Complete with	protective cap und bar

718Y1 Spare Blade for Deburring Knife

Article number	718Y1
Weight	0.001 kg
for	718H5 Deburring Knife

743F1 Pinch Gauge

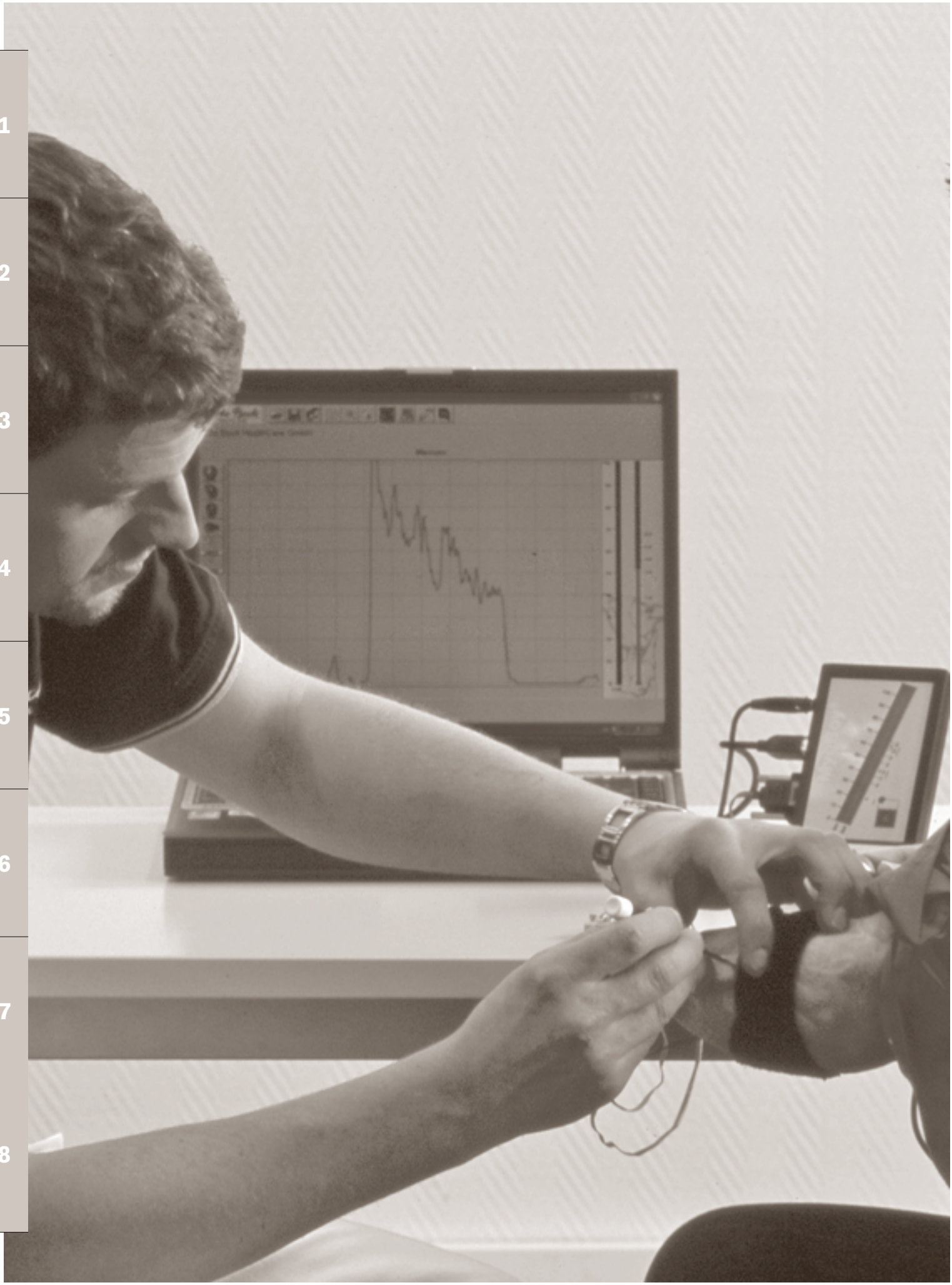
For testing the grip force of System Electric Hands

799L1=* Soldering Iron

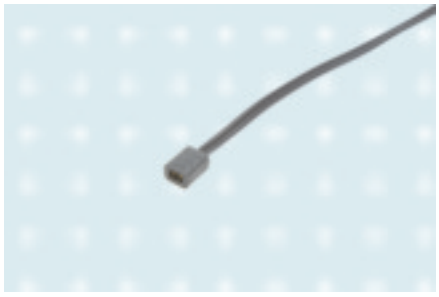
Complete with 799L3 Soldering Iron Tip

Article number	Volt	Watt
799L1=220	220	16

799L2 Stand for Soldering Iron



Test, Inspection and Adjustment Equipment



757P2=4 Test Cable

Technical Data

Article number	**757P2=4**
for	drive units and DC motors

757P2=6 Test Cable

Technical Data

Article number	**757P2=6**
for	757B15 X-ChangePack

757P2=8 Test Cable

Technical Data

Article number	757P2=8
for	13E51=2 and 13E132 Battery Connection Cables

757P2=9 Test Cable

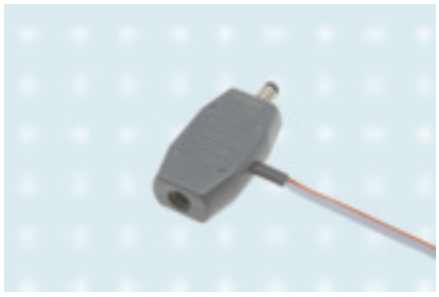
Technical Data

Article number	757P2=9
for	10S17 Electric Wrist Rotator and 8X15 or 8X19 DC Motors

757P2=10 Test Cable

Technical Data

Article number	757P2=10
for	757B13 Interchangeable Battery



757P23 Test Adapter

Technical Data

Article number	757P23
for	8E38, 8E39, 8E41 and 8E44 System Electric Hands or 8E33 or 8E34 System Electric Greifers

757P28 Test Plug

When used with the 757T16 System Tester, this test plug may be used to test the function of DMC, DMC plus and DMC VariPlus control.

647H149

Technical Data

Article number	757P28
for	use with the DMC system

757P35 Test Plug

Technical Data

Article number	757P35=1	757P35=2
for	EnergyPack 757B20	EnergyPack 757B21

757P39 MyoBoy Communication Cable

Connects the MyoBoy and 757Z185=2 or 757Z191=2 Battery Receptacle.
Permits signal measurement while the prosthesis is in use.

757T16 System Tester

For MyoBock-System,
without test cable, with 757L16-1 AC adapter with EU and US plug.
The system tester is used to test the function of individual components and assemblies in the MyoBock System.
System Electric Hands, System Electric Greifers, connection cables, battery connection cables, batteries and assemblies may be tested either individually or in combinations.

- Please order a test cable separately according to requirements

757T13 MyoSelect

The 757T13 MyoSelect is used to identify and adjust Myobock® components, such as System Electric Hands, System Electric Greifers, MyoRotronic and ErgoArm Electronic plus.

The MyoSelect is connected to the MyoBock component and then displays information on the type of component and on the currently selected control mode. The multi-function button can be used to select and adjust alternative control modes.

With the 757T13 MyoSelect, it is even possible to adjust the speed of the MyoHand VariPlus Speed, SensorHand Speed and the System Electric Greifer.

Please note that in order to make adjustments with the MyoSelect, the components must first be equipped with a black coding plug !

New components, such as the MyoHand VariPlus Speed and System Electric Greifer DMC VariPlus are only designed for use with the 757T13 MyoSelect!

Myo Service Parts

Service Parts for System Electric Hands

9E53 Hand Cable, flat

Article number	for	Complete with
9E53	System Electric Hands	9E70 Cable Bushing

9E68 Tube Chassis

Article number	For hand size
9E68=7 1/4	7 1/4
9E68=7 3/4	7 3/4
9E68=8 1/4	8 1/4

Reference Number	9E68
for	System Electric Hands with threaded stud M12X1.5, in the sizes 7 1/4, 7 3/4 and 8 1/4
Complete with	Threaded Stud M12X1,5

9E83 Lock Nut

Technical Data

Article number	9E83
for	9E53 and 9E125 Hand Cable

9E125=200 Hand Cable, twin-wire

Article number	for	Complete with
9E125=200	8E12 Electric Hand	9E48 Cable Bushing

9E167 Cable Connector

Technical Data

Article number	9E167
for	9E53 and 9E168 Coaxial Bushing

9E168 Coaxial Bushing

Article number	9E168=8	9E168=7
for	MyoBock Digital Twin System	MyoBock DMC plus-System
Complete with	9E167 Cable Connector and 501S17=M3×5 Countersunk Head Screw	

9E188 Distributor

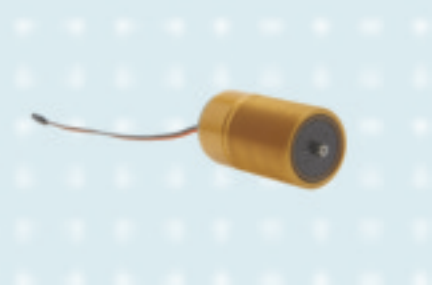
Article number	9E188
for	System Electric Hands without electronic control, for example, 8E12 or 8E37
Complete with	501T8=M2x4 Cap Screw (2 pieces) 9E189=1 Plug Housings (2 pieces) 519S5=0.8 Plug Bushings (4 pieces)

9E189=1 Plug Housing, dark grey

Article number	9E189=1
for	DC motors

9E194 Drive Unit

Article number	9E194
Weight	80 g
Approx. max current	2.6 A
Approx. no-load current	150 mA
Supply voltage	6/7.2 V
for	Electric Hands in sizes 7 1/4, 7 3/4 and 8 1/4
Complete with	ball bearing and lock element
Consists of:	9E202 Stainless Steel Spacer 9E250=1 Housing with Drive Element 9E205 Lock Element 9E206=2 Planet Set 9E207=1 Drive Ring 9E251 Spacer 9E209=4 Wrapped Spring 616T95=3 ThermoLyn PE 200 8X16 DC Motor 9E56 Adjustment Ring 9E208 Plastic Disk 9E219=3 Spring Support Ring



- Not suitable for DMC and DMC plus systems.
- 9E205 Lock Element: lubricate the front surface (friction surface for the slip ring) with 633F14 Molykote.
- 9E206=2 Planet Set: lubricate with 633F11 Silicone Grease.
- 9E56 Motor: secure with 636W22 Adhesive.
- For repairs, please state hand type (e.g. 8E38=1) or whether or not an electronic control has been built into the System Electric Hand.

9E255=1 Slip Clutch

Article number	for	with
9E255=1	Electric Hands in sizes 7 1/4, 7 3/4 and 8 1/4	9E162 Axis with Lock 501S24=M3x4 Flat Head Screw

9E274 Transmission

Article number	For hand size	Side
9E274=L	7 1/4, 7 3/4 und 8 1/4	Left (L)
9E274=R	7 1/4, 7 3/4 und 8 1/4	Right (R)

Technical Data

Reference Number	9E274
for	8E38, 8E39 and 8E41 Electric Hands in sizes 7 1/4, 7 3/4 and 8 1/4,
Consists of:	9E79=L/R Transmission 9E46 Wire Ring 513S1 Coil Spring 9E43 Double Spring (2 pieces) 9E33 Planetary Gear Wheel (3 pieces) 9E31 Inner Gear Ring 519S47 Spacer Washer (3 pieces) 9S197 Housing with Roller Bearing 509Y1=2.0 Ball (10 pieces) 9E278 Bevel Gear, complete 9E277 Bevel Gear, short 507U3=4.5x1.8x0.3 Washer 501T8=M1.7x3 Cap screw 9S188 Support Bearing 501T8=M2x10 Cap screw 9E161 Screw Cap

- Lubricate the transmission with 10 drops of 633F37=0.02 Silicone Oil.
- For repairs, please state hand type (e.g. 8E38=1-L8 1/4)

647H336

9E380 Electronic Control

For System Electric Hands DMC plus

The DMC plus control features a DMC and DMC plus control mode.

Article number	Side
9E380=L	Left (L)
9E380=R	Right (R)

Technical Data

Reference Number	9E380
for	System Electric Hands in sizes 7 1/4, 7 3/4 and 8 1/4 with 501T8= M2.6x6 Screws (2 pieces)
Complete with	electronic switch-off 13E185 Function Plug integrated hand switch

9E381 Electronic Control

For System Electric Hands Digital Twin

The Digital Twin control features a digital and dual channel control mode.

647H337

Article number	Side
9E381=L	Left (L)
9E381=R	Right (R)

Technical Data

Reference Number	9E381
for	System Electric Hands in sizes 7 1/4, 7 3/4 and 8 1/4 with 501T8= M2.6x6 Screws (2 pieces)
Complete with	electronic switch-off 13E185 Function Plug ntegrated hand switch

9E385 Electronic Control

For Transcarpal Hand DMC plus

647H403

Article number	Side
9E385=L	Left (L)
9E385=R	Right (R)

Technical Data

Reference Number	9E385
Complete with	9E387 Clamp Piece (for electronic control) 13E185 Function Plug 501S122=M2.5×22 Flat Head Screw

9E386 Electronic Control

For Transcarpal Hand Digital Twin

647H404

Article number	Side
9E386=L	Left (L)
9E386=R	Right (R)

Technical Data

Reference Number	9E386
Complete with	9E387 Clamp Piece (for electronic control) 13E185 Function Plug 501S122=M2.5×22 Flat Head Screw

9E388 Cable Seal

Technical Data

Article number	9E388
for	9E53 Hand Cable (for the Transcarpal Hand)

9S72 Hand Chassis

Article number	For hand size
9S72=7 1/4	7 1/4
9S72=7 3/4	7 3/4
9S72=8 1/4	8 1/4

Technical Data

Reference Number	9S72
for	System Electric Hands with quick disconnect wrist, in the sizes 7 1/4, 7 3/4 and 8 1/4
Complete with	quick disconnect wrist
with	11S8 Disconnect Piece 11S9 Ball Bearing Cage 11S10 Disconnect Piece (10 pieces) 509Y1 Ball
Consists of:	9S74 Hand Chassis with quick disconnect wrist, 11S6 Ratchet Ring with Inner Gear Teeth 11S27 Spacing Washer 11S7 Pressure Ring 11S2 Locking Unit|Quick disconnect piece with ball bearings for locking and coupling to lamination ring

9S74 Hand Chassis with quick disconnect wrist,

Article number	For hand size
9S74=7 1/4	7 1/4
9S74=7 3/4	7 3/4
9S74=8 1/4	8 1/4

Technical Data

Reference Number	9S74
for	System Electric Hands with quick disconnect wrist, in the sizes 7 1/4, 7 3/4 and 8 1/4
Complete with	Tube Chassis with threaded adapter and 11S5 Ratchet Ring

9S83 Thumb

Article number	For hand size	Side
9S83=L	7 1/4, 7 3/4	Left (L)
9S83=R	7 1/4, 7 3/4	Right (R)

Technical Data

Reference Number	9S83
with	9S8 Finger Thumb Tip 507U42=4.0 Lock Washer

9S85 Finger Group

Article number	For hand size	Side
9S85=L	7 1/4, 7 3/4	Left (L)
9S85=R	7 1/4, 7 3/4	Right (R)

Technical Data

Reference Number	9S85
Consists of:	9S84 Finger Tip (2 pieces) 502S16=BM 3.5 Hexagon nut 9E74 Steel axis 9E65=7 3/4 Finger Connection Bar

9S103=7 1/4 Tube chassis with lamination ring

Article number	9S103=7 1/4
for	System Electric Hands for wrist disarticulation In size 7 1/4
Consists of:	9S74=7 1/4 Tube Chassis with threaded adapter and ratchet ring 9S105 Cable Guide 9S110=50 Lamination Ring 11S30 Friction Ring with Inner Gear Teeth 11S27 Spacing Washer 11S7 Pressure Ring

9S103=7 3/4 Tube chassis with lamination ring

Article number	9S103=7 3/4
for	System Electric Hands for wrist disarticulation In size 7 3/4
Consists of:	9S199=7 3/4 Tube Chassis with threaded adapter and 11S5 Ratchet Ring 9S105 Cable Guide 9S110=50 Lamination Ring 11S30 Friction Ring with Inner Gear Teeth 11S27 Spacing Washer 11S7 Pressure Ring

9S103=8 1/4 Tube chassis with lamination ring

Article number	9S103=8 1/4
for	System Electric Hands for wrist disarticulation In size 8 1/4
Consists of:	9S199=8 1/4 9S105 Cable Guide 9S110=54 Lamination Ring 11S30 Friction Ring with Inner Gear Teeth 11S27 Spacing Washer 11S7 Pressure Ring

9S203 Finger-Thumb Group

Article number	For hand size	Side
9S203=L	8 1/4	Left (L)
9S203=R	8 1/4	Right (R)

Technical Data

Reference Number	9S203
for	System Electric Hands in size 8 1/4
Consists of:	9S204 Finger Group 9S211 Thumb 9S92 Finger Axis 501S70=M3.5x6 Flat Head Screw (4 pieces) 9S91 Thumb Axis 9E78 Bow Spring 9S194 Protective Cap

9S204 Finger Group

Article number	For hand size	Side
9S204=L	8 1/4	Left (L)
9S204=R	8 1/4	Right (R)

Technical Data

Reference Number	9S204
Consists of:	9S8 Finger Thumb Tip 502S16=BM 3.5 Hexagon nut 9E74 Steel axis 9E65=7 3/4 Finger Connection Bar

9S211 Thumb

Article number	For hand size	Side
9S211=L	8 1/4	Left (L)
9S211=R	8 1/4	Right (R)

Technical Data

Reference Number	9S211
with	9S236 Thumb Tip 507U42=4.0 Lock Washer

9S255 Finger-Thumb Group

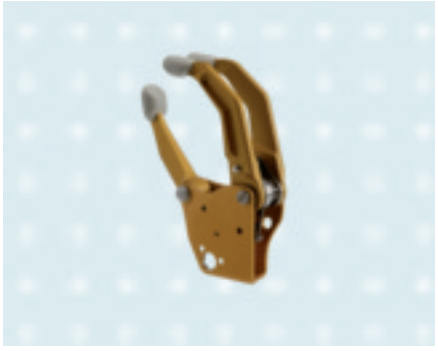
Article number	For hand size	Side
9S255=R	7 1/4, 7 3/4	Right (R)
9S255=L	7 1/4, 7 3/4	Left (L)

Technical Data

Reference Number	9S255
for	Transcarpal Hands in sizes 7 1/4, 7 3/4
Consists of:	9S85 Finger Group 9S83 Thumb 9S257 Finger Chassis 9S92 Finger Axis 501S70=M3.5x6 Flat Head Screw (4 pieces) 9S91 Thumb Axis 9S194 Protective Cap

9S256 Finger-Thumb Group

Article number	For hand size	Side
9S256=L	8 1/4	Left (L)
9S256=R	8 1/4	Right (R)



Technical Data

Reference Number	9S256
for	Transcarpal Hands in size 8 1/4
Consists of:	9S204 Finger Group 9S211 Thumb 9S257 Finger Chassis 9S92 Finger Axis 501S70=M3.5x6 Flat Head Screw (4 pieces) 9S91 Thumb Axis 9S194 Protective Cap

501S7=M3x5 Countersunk Head Screw

For connecting the 9S197 Housing with roller bearing to the finger chassis

501S17=M3x5 Countersunk Head Screw

Technical Data

Article number	501S17=M3x5
for	9E168 Coaxial Bushing

501T8=M2x4 Cap screw

For securing the distributor to the hand switch

502S97=M5 Hexagon nut

Article number	Complete with
502S97=M5	flange

519S5=0.8 Plug Bushing

Technical Data

Article number	519S5=0.8
for	plug housing

520E30 Solder Lug

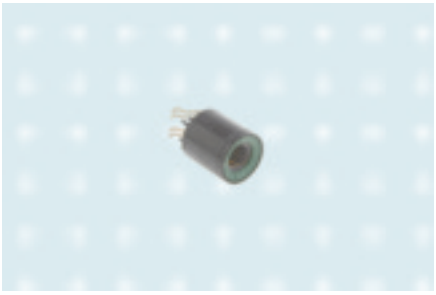
Technical Data

Article number	520E30
for	System Electric Hands in sizes 7 1/4, 7 3/4 and 8 1/4, for connecting the system ground connection

Service Parts for System Electric Greifers

9E221 Coaxial Bushing

Article number	for	for	with
9E221=7	MyoBock DMC plus System	9E264=6	501S17=M3x5 Countersunk Head Screw
9E221=8	MyoBock Digital Twin System	8E33=7	501S17=M3x5 Countersunk Head Screw
9E221=9	MyoBock DMC VariPlus System	8E33=9	501S17=M3x5 Countersunk Head Screw



9E235 Connecting Cable

Article number	for	Complete with
9E235	System Electric Greifers for 8E34=9 and 8E34=7 wrist disarticulation	501S17=M3×5 Countersunk Head Screw

9E236=2 Distributor

Technical Data

Article number	9E236=2
for	8E32=6 System Electric Greifers

647H74

9E264=7 Electronic Control

Technical Data

Article number	9E264=7
for	Digital Twin system 8E33=7 and 8E34=7 System Electric Greifers

9E264=9 Electronic Control

Technical Data

Article number	9E264=9
for	DMC VariPlus System 8E33=9 and 8E34=9 System Electric Greifers

9E346 Drive Unit for System Electric Greifer

Article number	Complete with
9E346	electronic battery-saving circuit

9S117 Reduction Gear

9S127=1 Finger Cover

Article number	with
9S127=1	501S54=M3x10 Flat Head Screw (2 pieces) 9S147=2PAA Rubber pad (pair)

9S136=1 Finger Housing Set

Article number	with
9S136=1	501S27=M2x6 Oval Head Countersunk Screw (4 pieces) 9S147=1PAA Rubber pad (pair)

11S2 Locking unit

Quick disconnect piece with ball bearings for locking and coupling to lamination ring

Article number	with
11S2	11S8 Disconnect Piece 11S9 Ball Bearing Cage 11S10 Disconnect Piece (10 pieces) 509Y1=3 Ball (20 pieces)

11S6 Ratchet Ring with Inner Gear Teeth

11S7 Pressure Ring

11S27 Spacing Washer

11S30 Friction Ring with Inner Gear Teeth

13E29 Collector Brush

Technical Data

Article number	13E29
for	Greifer electronic control and distributor

Service Parts for Electric Wrist Rotator

11S61 Wrist Drive with Coaxial Plug

For 10S17 Electric Wrist Rotator, with 9E365 Protection Plug

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