

# Prosthetics

Lower Extremity



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"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."

Prof. H. G. Näder,  
Chairman and CEO

## A changing company

The name Ottobock 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 Ottobock 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, Ottobock became a company of international standing. Thanks to his creativity and inventive talent, Max Näder continued to set standards in orthopaedics 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 branch was founded. After years of consistent and dynamic expansion, Ottobock 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 orthopaedics 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.

Ottobock 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. While we are confident that we have created a future-proof organisation with our global network of development, manufacturing and production sites, we remain committed to Germany and the local roots of our company. 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 Ottobock 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 Ottobock".

Searching, Finding and Ordering

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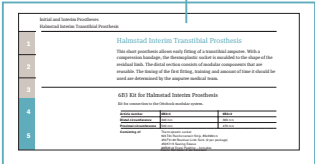
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Prosthetics – Lower Limbs (OTtoBock) 1

This catalogue is organised into **14 sections**.

The **tab on the right side** and the **page headers (e.g. Modular Hip Joints)** on the top of each page help you find your way around quickly and easily.



List of Key Words

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

**Explanation of Symbols**

	Information sheet, poster		Thread
	Information material		Silicone
	Instructions for processing or use		Copolymer
	Products with these symbols are registered trademarks in certain countries.		Polyurethane
	Mixing ratio		Shuttle lock
	CD		E-Pulse
	DVD		Harmony System
	angled		KISS Lanyard System
	moveable		Sealing sleeve
	rotatable		ProSeal Ring
	eccentric		Push Valve

**Converting weights and measures**

Most weights and measures in this catalog are metric. You can make conversions using the site [www.metric-conversion.org](http://www.metric-conversion.org). Here are some typical weight conversions, for your information:

90 kg = 200 lbs      100 kg = 220 lbs

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

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

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

Hazard classes	Hazard categories
	1
	1, 2
	1, 2, 3
	1, 2
	Types B, C, D, E, F
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	Types B, C, D, E, F
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	1, 2, 3
	1, 2, 3
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	1A, 1B, 1C
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	1, 2, 3
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	1
	3
	1
	1A, 1B, 2
	1A, 1B, 2
	1A, 1B, 2
	1, 2
	1, 2
	1
– Acutely hazardous to water	1
– Chronically hazardous to water	1.2

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

• Please note that the base colours shown in this catalogue may differ in actual effect.

## Ordering Information

### User instructions for products

**Product name**

**Brief product description**

**Product illustration**

**Available information material**

**Notice**

**Article number or reference number**

**Technical data such as diameter, size, system height, material, MOBIS**

**3R90-1 Modular Knee Joint with Friction Brake, Monocentric with Mechanical Extension Assist**

The innovative load-dependent brake mechanism offers targeted safety for the patient. Heel strike activates the brake and provides high stability in the stance phase. The swing phase can be controlled by means of a mechanical extension assist which, integrated in the lower section of the joint, has a progressively acting spring combination.

Article number	3R90-1
Mobility grade	1 + 2
Material	Aluminium
Proximal connection	Pyramidal Adapter
Distal connection	Tube Clamp
Knee flexion angle	120-90°
System height	62 mm
proximal system height to alignment reference point	8 mm
distal system height to alignment reference point	82 mm
Weight	240 g
Max. body weight	150 kg

Use the 3S107 Foam Cover for the 3R90-1 and 3R92-1. Fabrication of a customised cosmetic foam cover is possible.  
See Page 308

**Note on accessories for the product. Order separately as necessary.**

**Accessories for 3R90-1/3R92-1**

Order separately as necessary.

**2R77 Tube Adapter**

Article number	2R77
Diameter	34 mm
Material	Stainless steel
Min. system height	22 mm
Weight	370 g
Max. body weight	150 kg

4D17 Single Component Pack

Article number	4D17
for	3R95 3R92-1
Consisting of	1 heel-heel counterbalance screw 1 extension stop bumper

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

**Single Components for 3R95 and 3R95-1 as Spare Parts**

### Order Code

Select the desired product and determine the article number. It consists of the reference number plus additional parameters such as body side, size, material and colour. The order examples on the respective catalogue pages show how the article number can be determined quickly and easily.

An example:

Order example

Reference number	side	size	colour	form					
<b>2C1</b>	<b>L</b>	<b>22</b>	<b>4</b>	<b>N</b>					
<b>Reference number</b>	2C1								
<b>Heel height</b>	10 +/- 5 mm								
<b>Side</b>	left (L), right (R)								
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
<b>Weight</b>	~ 150 g	~ 165 g	~ 185 g	~ 195 g	~ 230 g	~ 240 g	~ 260 g	~ 275 g	
<b>Colour</b>	beige (4), light brown (15)								
<b>Shape</b>	normal (N)								

The article number is then to be used when making enquiries or placing orders by phone, fax or email.

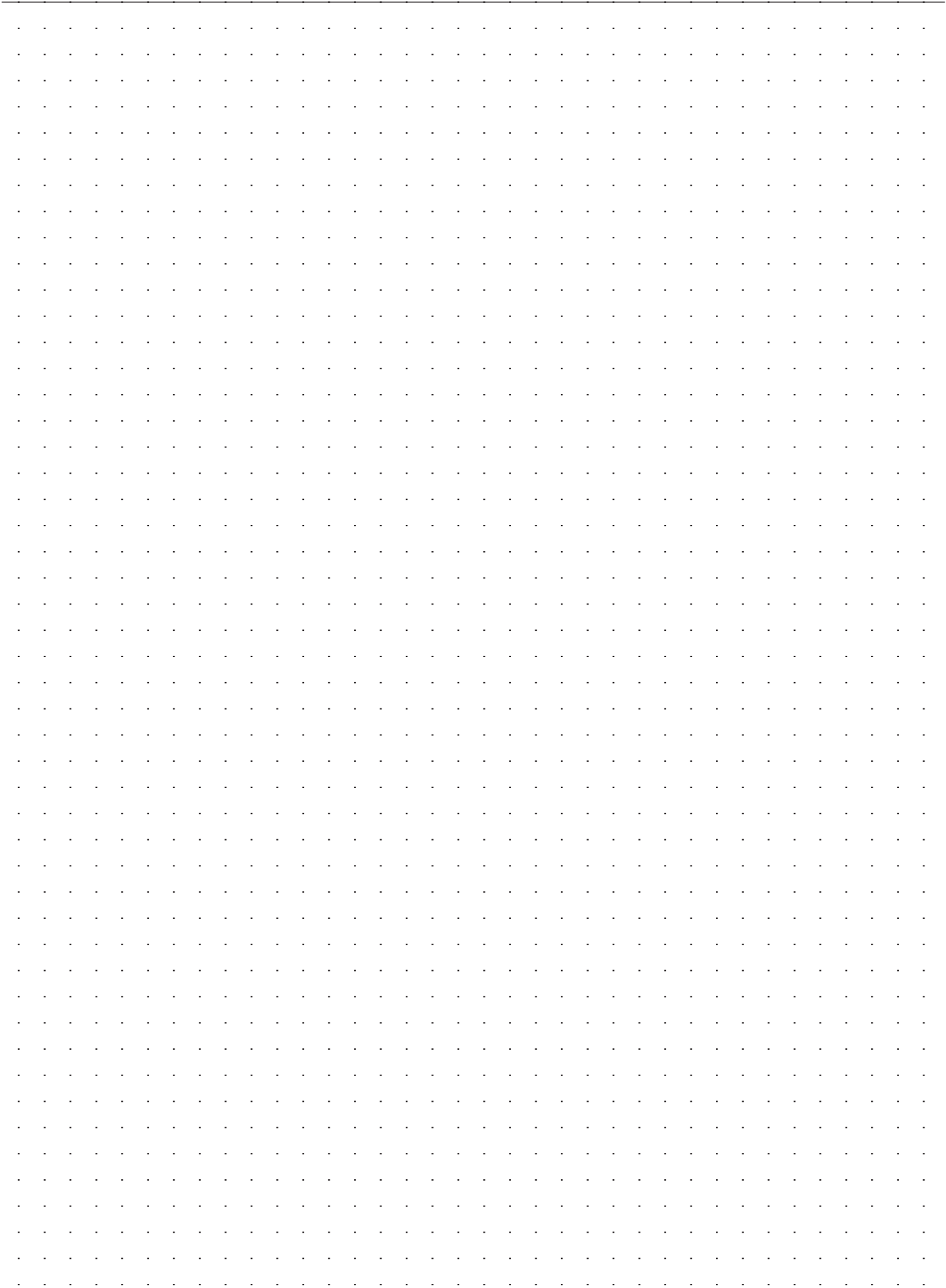
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At Ottobock, we place great emphasis on CUSTOMER SERVICE. Our staff assists you with their comprehensive expertise, inform you about the latest developments and advise you in all matters concerning our products. For more complex enquiries, our product experts and specialists from Fabrication will be delighted to help you. Our highly qualified team of field service employees will assist with special technical solutions and their on-site implementation. We also offer comprehensive service and marketing concepts.

Visit [www.ottobockus.com/professionals](http://www.ottobockus.com/professionals) to obtain up-to-date product information at any time.

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# Modular Lower Limb Prostheses

Modular lower limb prostheses, an Ottobock invention, are today's standard in orthopaedic technology fittings for prosthesis wearers.

The components are detachable and can be replaced easily. Static corrections during alignment, trial fitting and even after finishing the prosthesis may be made at any time in a clear and reproducible way.

In order to account for the individual requirements of the users, we offer a wide variety of different functional components made of aluminium, titanium and stainless steel.

**MOBIS**, a further development of our Ottobock classification system, helps you choose in accordance with the indication for use. The **MOBIS** symbol allows you to combine the modular components according to mobility grade and body weight for an individual fitting.

PLEASE NOTE: MOBIS categories are similar, but not exactly equivalent to U.S. K-Level classification.

Ongoing innovation means that we are always developing the modular system further in order to meet the rising requirements of prosthesis wearers. One of our milestones has been the introduction of the C-Leg as the first fully microprocessor-controlled prosthesis system in the world.

1

## Alignment of Modular Lower Limb Prostheses

2

### Alignment Instructions

The prosthetic alignment of a lower limb prosthesis has considerable influence on the functional qualities of the prosthesis and thus on the fitting quality.

Optimal prosthetic alignment is achieved in 3 steps:

3

1. Bench alignment
2. Static alignment
3. Dynamic alignment optimisation

4

The Ottobock alignment apparatuses PROS.A.\* Assembly and L.A.S.A.R.\*\* Posture facilitate the prosthetic fitting. They help to observe the alignment instructions, to document the prosthetic alignment and to achieve a reproducible, high fitting quality.

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\* PROS.A.: PROStheses Alignment

\*\* L.A.S.A.R.: Laser Assisted Static Alignment Reference

### Alignment Recommendations for TF Modular Lower Limb Prostheses according to MOBIS<sup>1</sup>

	Polycentric Knee Joints		Monocentric Knee Joints			
Bench alignment in the PROS.A. Assembly	<p><b>3R60 EBS / 3R60 EBS**</b></p> <p><b>3R106</b></p> <p>Recommended prosthetic feet according to MOBIS for: 3R60 Gaitliner plus IA30, Dynamic Motion 1D35, Titan 3C30, C-Link 3C30, Axion 1E56 or Axion EP 1E58 (Selection depends on the Mobility Grade and functional demands of the patient)</p>	<p><b>3R20 / 3R36</b></p> <p><b>3R21 / 3R30</b></p> <p><b>3R23 / 3R32</b></p> <p><b>3R46</b></p> <p><b>3R55</b></p> <p><b>3R60 EBS</b></p> <p><b>3R60 EBS**</b></p> <p><b>3R72</b></p> <p><b>3R78</b></p> <p><b>3R106</b></p> <p>Recommended prosthetic feet according to MOBIS for: 3R106 Gaitliner plus IA30, Dynamic Motion 1D35, Titan 3C30, C-Link 3C30, Axion 1E56 or Axion EP 1E58 (Selection depends on the Mobility Grade and functional demands of the patient)</p>	<p><b>3R93</b></p> <p>Recommended prosthetic feet according to MOBIS for: 3R93 Adjust (LM30), Single Axis Foot (H32 - H36), S&amp;H Foot (S49 - S58), Dynamic Foot (D10) - (D11), Gaitliner Plus (IA30), Dynamic Motion (D35), Titan (C30)</p>	<p><b>C-Leg / C-Leg compact</b></p> <p>Recommended prosthetic feet according to MOBIS for: C-Leg / C-Leg compact Dynamic Foot 1D30, Gaitliner plus IA30, Dynamic Motion 1D35, Titan 3C30, C-Link 3C30, Axion 1E56 or Lo Rider 1E57 (Selection depends on the Mobility Grade and functional demands of the patient)</p>	<p><b>Bench alignment*</b></p> <p>3R15 / 3R49 -10 mm</p> <p>3R17 / 3R33 -15 mm</p> <p>3R22 / 3R34 -15 mm</p> <p>3R40 / 3R44 -15 mm</p> <p>3R80 0 mm</p> <p>3R90 / 3R90-1 -10 mm</p> <p>3R92 / 3R92-1 -10 mm</p> <p>3R93 / 3R93-1 -10 mm</p> <p>3R95 / 3R95-1 -15 mm</p> <p>C-Leg 5 mm</p> <p>C-Leg compact 5 mm</p> <p>* - - - Posterior placement</p>	<p>To make use of the functional benefits of the Ottobock knee joint, correct bench alignment, as in the PROS.A. Assembly or in the L.A.S.A.R. Assembly is required as follows:</p> <ol style="list-style-type: none"> <li>Position the middle of the foot 30 mm anterior to the alignment reference line (observe the alignment recommendations contained in the instructions for use of the foot and set correct outward rotation of the foot).</li> <li>Add 5 mm to the required heel height (observe the alignment recommendations contained in the instructions for use of the foot and set correct outward rotation of the foot).</li> <li>Position the alignment reference point (for monocentric knee joints - rotation axis; for polycentric knee joints - anterior upper axis) in relation to the alignment reference line in accordance with the alignment recommendations of the knee joint. Pay attention to the knee ground distance and outward rotation of the knee (knee insert provided for a rotation of approx. 5°). Recommended sagittal position of the alignment reference point: 20 mm above the medial tibial plateau.</li> <li>Connect the foot to the knee joint by means of a tube adapter.</li> <li>Mark the centre of the socket proximal and distal on the lateral side. Draw a line through both marks from socket to the distal end of the socket.</li> <li>New position the socket such that the alignment reference line passes through the proximal mark, the knee flexion to extension axis in 0° and 90°; however, the individual situation (e.g. hip flexion contractures) must be taken into account. Also take into account to the lateral subluxation to ground distance.</li> <li>Connect the socket and knee by means of an adapter.</li> </ol>
	<p>Recommended prosthetic feet according to MOBIS for: 3R60 Gaitliner plus IA30, Dynamic Motion 1D35, Titan 3C30, C-Link 3C30, Axion 1E56 or Axion EP 1E58 (Selection depends on the Mobility Grade and functional demands of the patient)</p>	<p>Recommended prosthetic feet according to MOBIS for: 3R106 Gaitliner plus IA30, Dynamic Motion 1D35, Titan 3C30, C-Link 3C30, Axion 1E56 or Axion EP 1E58 (Selection depends on the Mobility Grade and functional demands of the patient)</p>	<p>Recommended prosthetic feet according to MOBIS for: 3R93 Adjust (LM30), Single Axis Foot (H32 - H36), S&amp;H Foot (S49 - S58), Dynamic Foot (D10) - (D11), Gaitliner Plus (IA30), Dynamic Motion (D35), Titan (C30)</p>	<p>Recommended prosthetic feet according to MOBIS for: C-Leg / C-Leg compact Dynamic Foot 1D30, Gaitliner plus IA30, Dynamic Motion 1D35, Titan 3C30, C-Link 3C30, Axion 1E56 or Lo Rider 1E57 (Selection depends on the Mobility Grade and functional demands of the patient)</p>	<p>Recommended prosthetic feet according to MOBIS for: 3R15 / 3R49 -40 mm</p> <p>3R17 / 3R33 -45 mm</p> <p>3R22 / 3R34 -45 mm</p> <p>3R40 / 3R44 -45 mm</p> <p>3R80 -35 mm</p> <p>3R90 / 3R90-1 -40 mm</p> <p>3R92 / 3R92-1 -40 mm</p> <p>3R93 / 3R93-1 -40 mm</p> <p>3R95 / 3R95-1 -45 mm</p> <p>C-Leg -30 mm</p> <p>C-Leg compact -30 mm</p> <p>* - - - Posterior placement</p> <p>* According to Prof. Ilmentz</p>	
Static alignment using L.A.S.A.R. Posture	<p>Load Line</p> <p>-10 mm</p> <p>Anterior lower axis</p>	<p>Load Line</p> <p>-35 mm</p> <p>Anterior upper axis</p>	<p>Load Line</p> <p>-40 mm</p> <p>Alignment reference point</p>	<p>Load Line</p> <p>-30 mm</p> <p>Alignment reference point</p>	<p><b>Static alignment*</b></p> <p>3R15 / 3R49 -40 mm</p> <p>3R17 / 3R33 -45 mm</p> <p>3R22 / 3R34 -45 mm</p> <p>3R40 / 3R44 -45 mm</p> <p>3R80 -35 mm</p> <p>3R90 / 3R90-1 -40 mm</p> <p>3R92 / 3R92-1 -40 mm</p> <p>3R93 / 3R93-1 -40 mm</p> <p>3R95 / 3R95-1 -45 mm</p> <p>C-Leg -30 mm</p> <p>C-Leg compact -30 mm</p> <p>* - - - Posterior placement</p> <p>* According to Prof. Ilmentz</p>	<p>Also bench alignment of the transfemoral prosthesis static alignment is made using the L.A.S.A.R. Posture. In order to ensure appropriate stability combined with easy swing phase initiation, please proceed as follows:</p> <ol style="list-style-type: none"> <li>To make the knee visible, the amputee (with closed knee) on the knee plate and with the other leg on the height compensation plate. The prosthetic side should at least be loaded with 50% of the body weight.</li> <li>New adjust the alignment by only adjusting the plantar flexion of the foot. The load line / knee line should be placed anterior to the alignment reference point (except for 3R60, see H3 according to the alignment recommendation of the knee joint).</li> <li>Perform dynamic optimisation during trial walking. You will then have to take the following aspects into consideration and make any necessary adjustments: <ul style="list-style-type: none"> <li>Socket flexion position by varying step length (sagittal plane)</li> <li>Addition position of the socket and S.L. positioning of the socket adapter (frontal plane)</li> <li>Rotation position of the knee joint axis and outward rotation of the prosthetic foot (transversal plane)</li> </ul> </li> <li>Finally, document the fitting result using the "Dartfish" motion analysis software.</li> </ol>

#### Alignment Recommendations for TF Modular Lower Limb Prostheses

	Sagittal plane	Frontal plane	Description
Bench alignment of the prosthesis with LaserLine/plumb/crosshair/laser	<p>Alignment reference line</p>	<p>Alignment reference line</p>	<ol style="list-style-type: none"> <li>Set the heel height reflects heel height of the other (5 mm) (C-Link 3rd Stage Measuring Device)</li> <li>Set the expected rotation of the foot (approx. 5°)</li> <li>Position the alignment reference line 30 mm behind the centre of the prosthetic foot</li> <li>Connect the prosthetic socket and prosthetic foot using the correct adapter</li> <li>Position the prosthetic socket so it is centered on the alignment reference line, setting the heel flexion to the proximal end of the socket (rotation: 5°) (C-Link 3rd Stage)</li> <li>Position the prosthetic foot in the frontal plane so that the alignment reference line runs between the leg and socket and parallel to the prosthetic socket and the alignment reference line runs along the frontal edge of the socket</li> <li>Observe the abduction/adduction position</li> </ol>
Static alignment with L.A.S.A.R. Posture	<p>Load Line</p> <p>30 mm</p>	<p>Load Line</p>	<p><b>Sagittal plane:</b></p> <ol style="list-style-type: none"> <li>Keep the length of the prosthetic. Determine the compression knee joint angle according to Ilmentz and mark it on the middle of the prosthetic socket (L.A.S.A.R. Knee Joint Gauge)</li> <li>Mark the prosthetic socket (5 mm in front of the compression group plate)</li> <li>Through plantar flexion of the prosthetic foot, set heel line to the socket so that it runs between them</li> </ol> <p><b>Frontal plane:</b></p> <ol style="list-style-type: none"> <li>Through medialisation of sitting and movement/rotation of the prosthetic foot, the knee line should pass through the centre of the prosthetic foot (50 mm in front of the heel alignment)</li> <li>On the socket, the heel line should run along the lateral parallel edge.</li> </ol>
Dynamic Alignment Optimisation	<p>Outdoor trial walking</p>	<p>Outdoor trial walking</p>	<p>In case of excessive flexion in the knee joint during load transfer: → Move the prosthetic foot further forward</p> <p>In case of lateral roll during load transfer: → Move the prosthetic foot further in the lateral direction</p> <p>Make sure that physiological knee movement is allowed (knee flexion) after heel strike. The physiological knee movement requires plantar flexion (step length) and independent knee flexion.</p> <p><b>Sagittal plane:</b> The knee movement also step down with the knee to be the knee. The prosthetic foot can achieve physiological knee movement most readily when the p-position of the prosthetic foot has been optimised.</p> <p><b>Frontal plane:</b> During the swing phase, the knee joint may exhibit a lateral roll-over. This lateral roll-over is caused by the medialisation of sitting and the rotation of the prosthetic foot. The rotation should be chosen so that the knee joint axis of the knee is parallel to the movement direction.</p> <p>If an adjustment of the p-position is necessary, the prosthetic foot should be modified on the L.A.S.A.R. Posture.</p> <p>If a prosthetic foot is adjusted, the prosthetic foot has to be modified in the frontal plane on the L.A.S.A.R. Posture.</p>

<sup>1</sup> MOBIS categories are similar, but not exactly equivalent to U.S. K-Level classification.

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## Bench Alignment

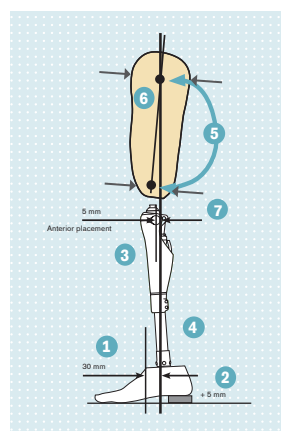
The PROS.A. Assembly (743A200) was designed for the bench alignment of modular lower limb prostheses. For the three-dimensional alignment of a modular lower limb prosthesis, the knee joint and socket are fixed in the apparatus, and the prosthetic foot and other prosthetic components are mounted in accordance with the alignment recommendations.

When aligning a transfemoral prosthesis according to the Ottobock alignment recommendations, the knee joint is used as the basis in the PROS.A. Assembly. The knee joint is fixed with joint-specific brackets (adapter inserts) directly in the alignment reference point (single axis joints = rotation axis; polycentric joints = upper anterior axis). The three-dimensional alignment of the modular lower limb prosthesis with the PROS.A. Assembly is measurable and reproducible. Alignment data can be documented and used for follow-up fittings. The socket is clamped and positioned in the innovative quick-clamping fixture. The socket is centred by the flexible guide at the distal point and the inflatable clamping fixture at the proximal point. After clamping the socket, the socket flexion is set to  $3^{\circ} - 5^{\circ}$ , taking into account, however, the individual situation of the patient (e.g. hip joint contractures) and the ischial tuberosity to ground distance. Finally, the socket and modular knee joint are connected using adapters. The prosthetic alignment is documented using the integrated measuring instruments such as mm-measures, angular measures, etc.

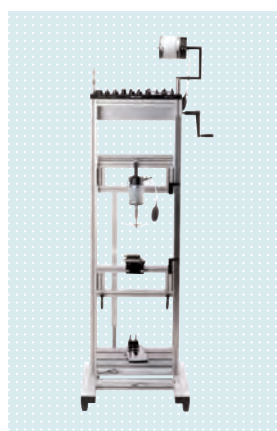
### Advantages of the new PROS.A. Assembly:

- Application of the Ottobock alignment recommendations for transfemoral prostheses
- Optimisation of the fabrication process of a transfemoral prosthesis
- Innovative socket adapter
- High fitting quality for the patient

 646S1=3.08D PROS.A. Assembly  
646F219=GB Poster; Alignment Recommendations for Modular Lower Limb Prostheses



C-Leg bench alignment example



PROS.A. Assembly



Prosthesis in the PROS.A. Assembly



## Static Alignment

### Good Posture – the Basis for Mobility

The L.A.S.A.R. Posture (743L100) helps with the static alignment during trial fitting of a prosthesis. It visualises the forces acting on the prosthesis in a standing position through the load line.

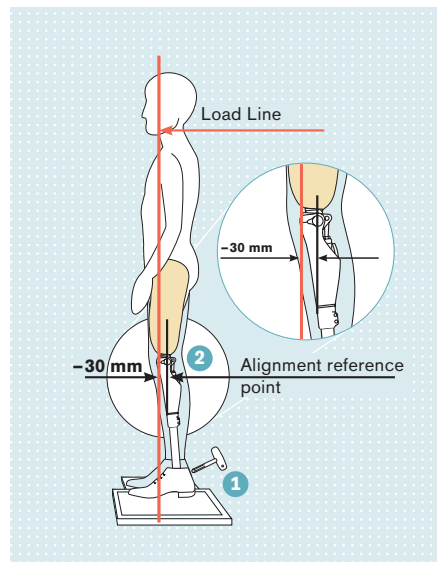
To measure the load line, the amputee steps on the force measurement plate with the prosthetic fitting side and places the other leg on the height compensation plate (see point 1 in the illustration). A laser line is projected onto the body of the prosthesis wearer by the load. The static alignment of the prosthesis can then be carried out on the basis of this load line.

With the L.A.S.A.R. Posture the physiological knee stress, which is considered as the biomechanical target, can be set objectively, thanks to the force-controlled alignment of the transtibial prosthesis. The transfemoral prosthesis is aligned specifically for each knee joint. For the correct transfer of force between the socket and the residual limb, especially in the proximal area, the distance between the knee and the load line is adjusted with plantar flexion, e.g. -30 mm for the C-Leg (see point 2 in the illustration).

-  646S1=7.06D L.A.S.A.R. Posture
- 646D101 Special Print
- Use of the L.A.S.A.R. Posture in Leg Orthotics
- 646D85 Special Print
- Alignment of Transtibial Prostheses with the L.A.S.A.R. Posture Alignment Measuring Device
- 646F219=GB Poster; Alignment Recommendations for Modular Lower Limb Prostheses
-  647H189 L.A.S.A.R. Posture



Technician working with the L.A.S.A.R. Posture 743L100



Static Alignment C-Leg example

# Alignment Recommendations for TF Modular Lo

Bench alignment in the  
**PROS.A. Assembly**

**Polycentric Knee Joints**

<b>3R60 EBS / 3R60 EBS<sup>PRO</sup></b>	<b>3R106</b>	<b>Bench alignment* ③</b>																				
		<table border="1"> <tr><td>3R20 / 3R36</td><td>0 mm</td></tr> <tr><td>3R21 / 3R30</td><td>0 mm</td></tr> <tr><td>3R23 / 3R32</td><td>0 mm</td></tr> <tr><td>3R46</td><td>0 mm</td></tr> <tr><td>3R55</td><td>0 mm</td></tr> <tr><td>3R60 EBS</td><td>0 mm</td></tr> <tr><td>3R60 EBS<sup>PRO</sup></td><td>0 mm</td></tr> <tr><td>3R72</td><td>0 mm</td></tr> <tr><td>3R78</td><td>0 mm</td></tr> <tr><td>3R106</td><td>0 mm</td></tr> </table>	3R20 / 3R36	0 mm	3R21 / 3R30	0 mm	3R23 / 3R32	0 mm	3R46	0 mm	3R55	0 mm	3R60 EBS	0 mm	3R60 EBS <sup>PRO</sup>	0 mm	3R72	0 mm	3R78	0 mm	3R106	0 mm
3R20 / 3R36	0 mm																					
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3R60 EBS <sup>PRO</sup>	0 mm																					
3R72	0 mm																					
3R78	0 mm																					
3R106	0 mm																					
<p><b>Recommended prosthetic feet according to MOBIS for:</b>  <b>3R60</b> Greissinger plus 1A30, Dynamic Motion 1D35, Trias 1C30, C-Walk 1C40, Axtion 1E56 or Axtion DP 1E58                      (Selection depends on the Mobility Grade and functional demands of the patient)</p>	<p><b>Recommended prosthetic feet according to MOBIS for:</b>  <b>3R106</b> Greissinger plus 1A30, Dynamic Motion 1D35, Trias 1C30, C-Walk 1C40, Axtion 1E56 or Axtion DP 1E58                      (Selection depends on the Mobility Grade and functional demands of the patient)</p>	<p><b>Recommended prosthetic feet according to MOBIS</b>                      (Selection depends on the Mobility Grade and functional demands of the patient)                      Please refer to the respective instructions for the use of the knee joints.</p>																				

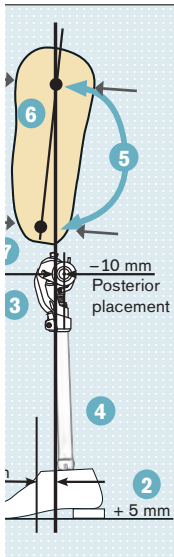
Static alignment using  
**L.A.S.A.R. Posture**

<b>3R60 EBS / 3R60 EBS<sup>PRO</sup></b>	<b>3R106</b>	<b>Static alignment* ②</b>																				
		<table border="1"> <tr><td>3R20 / 3R36</td><td>- 35 mm</td></tr> <tr><td>3R21 / 3R30</td><td>- 35 mm</td></tr> <tr><td>3R23 / 3R32</td><td>- 35 mm</td></tr> <tr><td>3R46</td><td>- 35 mm</td></tr> <tr><td>3R55</td><td>- 35 mm</td></tr> <tr><td>3R60 EBS</td><td>- 10 mm**</td></tr> <tr><td>3R60 EBS<sup>PRO</sup></td><td>- 10 mm**</td></tr> <tr><td>3R72</td><td>- 35 mm</td></tr> <tr><td>3R78</td><td>- 35 mm</td></tr> <tr><td>3R106</td><td>- 35 mm</td></tr> </table>	3R20 / 3R36	- 35 mm	3R21 / 3R30	- 35 mm	3R23 / 3R32	- 35 mm	3R46	- 35 mm	3R55	- 35 mm	3R60 EBS	- 10 mm**	3R60 EBS <sup>PRO</sup>	- 10 mm**	3R72	- 35 mm	3R78	- 35 mm	3R106	- 35 mm
3R20 / 3R36	- 35 mm																					
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3R78	- 35 mm																					
3R106	- 35 mm																					
		<p>“-” = Posterior placement                      *) According to Prof. Blumentritt                      **) Anterior <b>lower</b> axis is the alignment reference point</p>																				

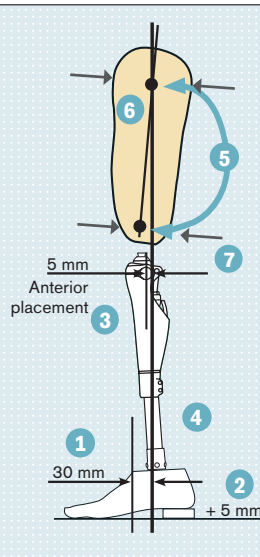
# Lower Limb Prostheses according to MOBIS

## Monocentric Knee Joints

### 3R93



### C-Leg / C-Leg compact



### Bench alignment\* 3

3R15 / 3R49	- 10 mm
3R17 / 3R33	- 15 mm
3R22 / 3R34	- 15 mm
3R40 / 3R41	- 15 mm
3R80	0 mm
3R90 / 3R90-1	- 10 mm
3R92 / 3R92-1	- 10 mm
3R93 / 3R93-1	- 10 mm
3R95 / 3R95=1	- 15 mm
C-Leg	5 mm
C-Leg compact	5 mm

"-" = Posterior placement

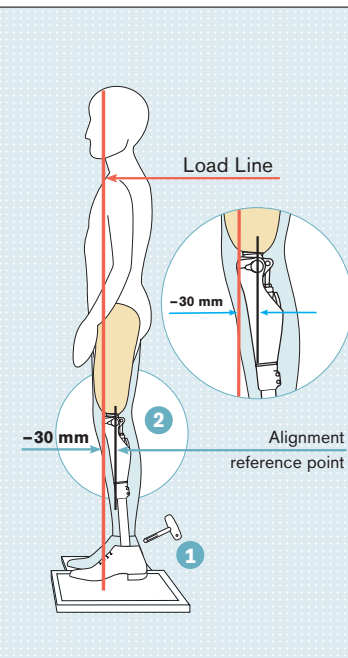
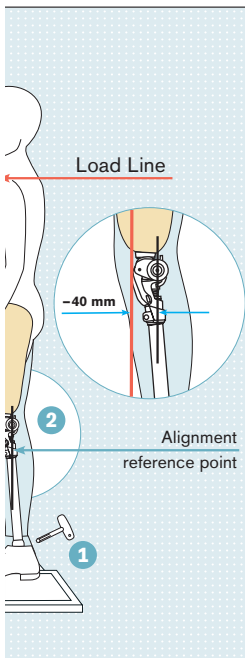
**Recommended prosthetic feet according to MOBIS for:**  
3R93: Single Axis Foot (1H32–1H40), 1S49–1S90), Dynamic Foot (1D10 / 1D11), Plus (1A30), Dynamic Motion (1D35), etc.  
Selection depends on the Mobility Grade and demands of the patient)

**Recommended prosthetic feet according to MOBIS for:**  
C-Leg / C-Leg compact: Dynamic Foot 1D10, Greissinger plus 1A30, Dynamic Motion 1D35, Trias 1C30, C-Walk 1C40, Axtion 1E56 or Lo Rider 1E57  
Selection depends on the Mobility Grade and functional demands of the patient)

**Recommended prosthetic feet according to MOBIS**  
(Selection depends on the Mobility Grade and functional demands of the patient)  
Please refer to the respective instructions for the use of the knee joints.

To make use of the functional benefits of the Ottobock knee joints, correct bench alignment, e.g. in the PROS.A. Assembly or in the L.A.S.A.R. Assembly is required as follows:

- 1 Position the middle of the foot 30 mm anterior to the alignment reference line (observe the alignment recommendation contained in the instructions for use of the knee joint and foot).
- 2 Add 5 mm to the required heel height (observe the alignment recommendation contained in the instructions for use of the foot) and set correct outward rotation of the foot.
- 3 Position the alignment reference point (for monocentric knee joints = rotation axis; for polycentric knee joints = anterior upper axis) in relation to the alignment reference line in accordance with the alignment recommendation of the knee joint. Pay attention to the knee ground distance and outward rotation of the knee (adapter inserts provide for a rotation of approx. 5°). Recommended sagittal position of the alignment reference point: 20 mm above the medial tibial plateau.
- 4 Connect the foot to the knee joint by means of a tube adapter.
- 5 Mark the centre of the socket proximal and distal on the lateral side. Draw a line through both marks from socket brim to the distal end of the socket.
- 6 Now position the socket such that the alignment reference line passes through the proximal mark. Set the socket flexion to somewhere between 3° and 5°; however, the individual situation (e.g. hip flexion contractures) must be taken into account. Also take into account to the ischial tuberosity to ground distance.
- 7 Connect the socket and knee by means of an adapter.



### Static alignment\* 2

3R15 / 3R49	- 40 mm
3R17 / 3R33	- 45 mm
3R22 / 3R34	- 45 mm
3R40 / 3R41	- 45 mm
3R80	- 35 mm
3R90 / 3R90-1	- 40 mm
3R92 / 3R92-1	- 40 mm
3R93 / 3R93-1	- 40 mm
3R95 / 3R95=1	- 45 mm
C-Leg	- 30 mm
C-Leg compact	- 30 mm

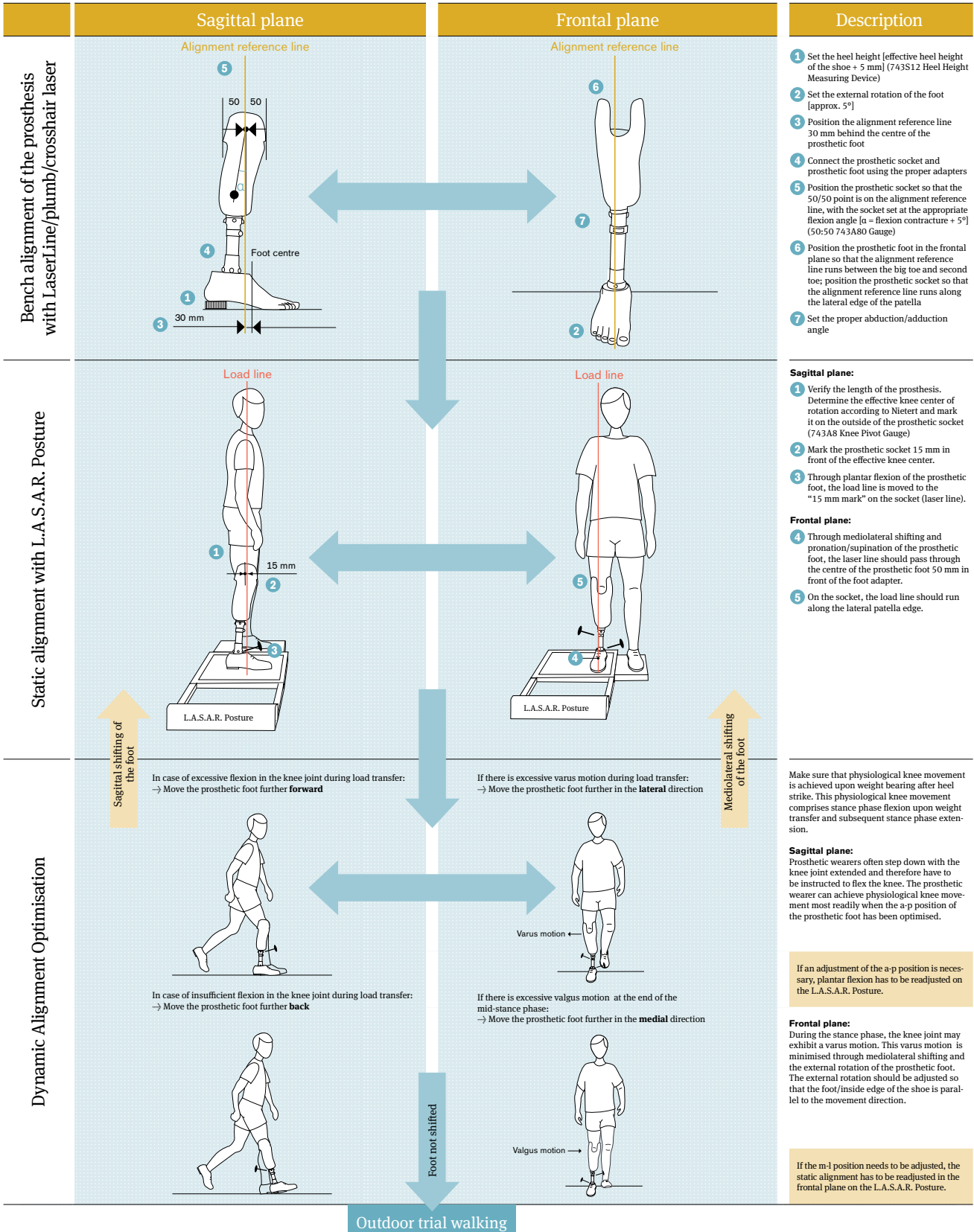
"-" = Posterior placement  
\*) According to Prof. Blumentritt

After bench alignment of the transfemoral prosthesis static alignment is made using the L.A.S.A.R. Posture. In order to ensure appropriate stability combined with easy swing phase initiation, please proceed as follows:

- 1 To make the load line visible, the amputee (with shoes) stands on the L.A.S.A.R. Posture with the prosthetic side on the force plate and with the other leg on the height compensation panel. The prosthetic side should at least be loaded with 35% of the body weight.
- 2 Now adapt the alignment by only adjusting the plantar flexion of the foot. The load line / laser line should be placed anterior to the alignment reference point (except for 3R60, see ill.) according to the alignment recommendation of the knee joint.
- 3 Perform dynamic optimisation during trial walking. You will often have to take the following aspects into consideration and make any necessary adjustments:
  - Socket flexion position by verifying step length symmetry (sagittal plane)
  - Adduction position of the socket and M-L positioning of the socket adapter (frontal plane)
  - Rotation position of the knee joint axis and outward rotation of the prosthetic foot (transversal plane)
- 4 Finally, document the fitting result using the "Dartfish" motion analysis software.



# Alignment Recommendations for TT Modular Lower Limb Prostheses



- 1 Set the heel height [effective heel height of the shoe + 5 mm] (743S12 Heel Height Measuring Device)
- 2 Set the external rotation of the foot [approx. 5°]
- 3 Position the alignment reference line 30 mm behind the centre of the prosthetic foot
- 4 Connect the prosthetic socket and prosthetic foot using the proper adapters
- 5 Position the prosthetic socket so that the 50/50 point is on the alignment reference line, with the socket set at the appropriate flexion angle [ $\alpha$  = flexion contracture + 5°] (50:50 743A80 Gauge)
- 6 Position the prosthetic foot in the frontal plane so that the alignment reference line runs between the big toe and second toe; position the prosthetic socket so that the alignment reference line runs along the lateral edge of the patella
- 7 Set the proper abduction/adduction angle

- Sagittal plane:**
- 1 Verify the length of the prosthesis. Determine the effective knee center of rotation according to Nieter and mark it on the outside of the prosthetic socket (743A8 Knee Pivot Gauge)
  - 2 Mark the prosthetic socket 15 mm in front of the effective knee center.
  - 3 Through plantar flexion of the prosthetic foot, the load line is moved to the "15 mm mark" on the socket (laser line).
- Frontal plane:**
- 4 Through mediolateral shifting and pronation/supination of the prosthetic foot, the laser line should pass through the centre of the prosthetic foot 50 mm in front of the foot adapter.
  - 5 On the socket, the load line should run along the lateral patella edge.

Make sure that physiological knee movement is achieved upon weight bearing after heel strike. This physiological knee movement comprises stance phase flexion upon weight transfer and subsequent stance phase extension.

**Sagittal plane:**  
Prosthetic wearers often step down with the knee joint extended and therefore have to be instructed to flex the knee. The prosthetic wearer can achieve physiological knee movement most readily when the a-p position of the prosthetic foot has been optimised.

If an adjustment of the a-p position is necessary, plantar flexion has to be readjusted on the L.A.S.A.R. Posture.

**Frontal plane:**  
During the stance phase, the knee joint may exhibit a varus motion. This varus motion is minimised through mediolateral shifting and the external rotation of the prosthetic foot. The external rotation should be adjusted so that the foot/inside edge of the shoe is parallel to the movement direction.

If the m-l position needs to be adjusted, the static alignment has to be readjusted in the frontal plane on the L.A.S.A.R. Posture.

## System Height – the Ottobock Dimension

Ottobock has a defined measurement system to help you fill the available space between the socket and floor with suitable prosthetic components – the system height. Each prosthetic component has a system height. By adding the individual values, you obtain the structural height of the chosen components quickly and easily.

The values determined by Ottobock take into account the fact that the pyramid adapter and pyramid receiver interlock when a prosthesis is fabricated using the modular system. You will find the values in table form underneath the respective product in the catalogue.

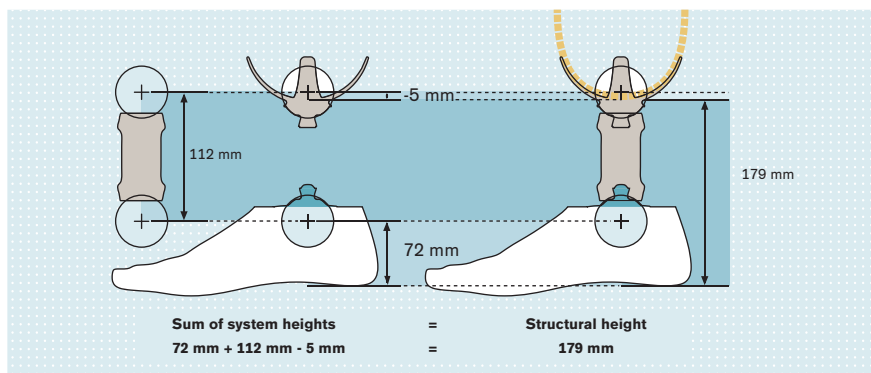
The illustrative examples that follow explain this principle for you.

### Technical Principle

The pyramid adapter and pyramid receiver interlock in the modular prosthesis system. This means the actual height of the component is not really informative for the prosthetist.

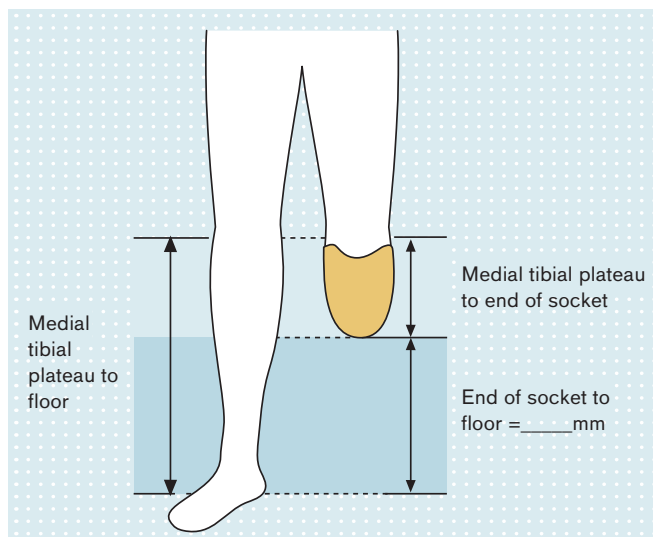
The graphic below illustrates 4 key aspects:

- Each Ottobock prosthetic component has a system height.
- The system height differs from the actual height of the prosthetic component; therefore, it cannot be verified by the prosthetist.
- The clearance of the combined components is calculated by summing all the system heights.
- There are negative system heights as well. This is a result of the measuring process. When examining the socket adapter, it becomes clear that the measuring point (centre of the circle) is already in the socket. This distance from the measuring point to the outside edge of the socket has to be subtracted. As a result, the system height of the socket adapter is negative.



## 4 Steps to Check the Chosen Component Combination for Exact Fit in Transtibial Fittings

### 1. Take patient measurements



### 2. Select components

Reference number	1D35									
Mobility grade	MG 2 + MG 3									
Heel height	10 +/- 5 mm									
Side	left (L),					right (R)				
Size	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	
System height	57 mm	60 mm	63 mm	66 mm	68 mm	72 mm	74 mm	75 mm	77 mm	
Weight	~340g	~435g	~510g	~545g	~630g	~645g	~670g	~730g	~755g	
Max. body weight	75 kg					100 kg				
Colour	beige (4), light brown (15)									



### 3. Adding system heights

Components that can be shortened have a minimum and maximum system height. The maximum system height is the unshortened value, the minimum is after shortening as far as possible.

Components	System height	
	min.	max.
4R116	2 mm	
4R52	33 mm	
4R121=30	177 mm	553 mm
1D35, Gr. 27	72 mm	
<b>Structural height =</b>	<b>280 mm</b>	<b>656 mm</b>

### 4. Comparing available socket-to-floor distance and clearance of the component combination.

The value of the socket end-floor measurement must be in between the minimum and maximum structural height of the component combination.

## Application of System Heights with a Knee Joint

For the fabrication of a transfemoral prosthesis, the system heights of the individual components are also added to determine the clearance. But the positioning of the knee joint has to be taken into account.

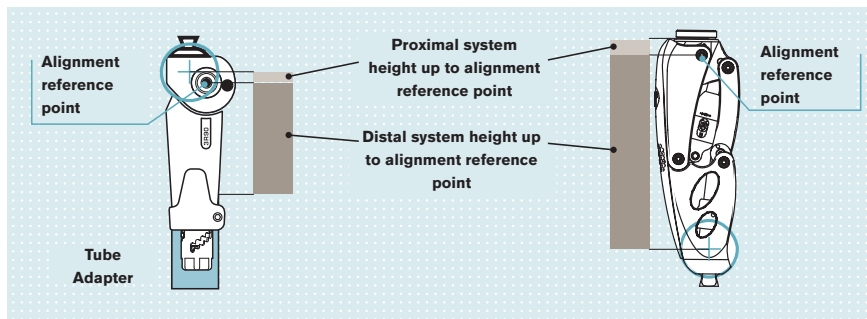
Every modular knee joint has an alignment reference point. This is the rotation axis in monocentric joints, and the anterior, upper axis in polycentric joints (see graphic below).

We recommend positioning the alignment reference point 20 mm above the medial tibial plateau, shown schematically in the following graphic.

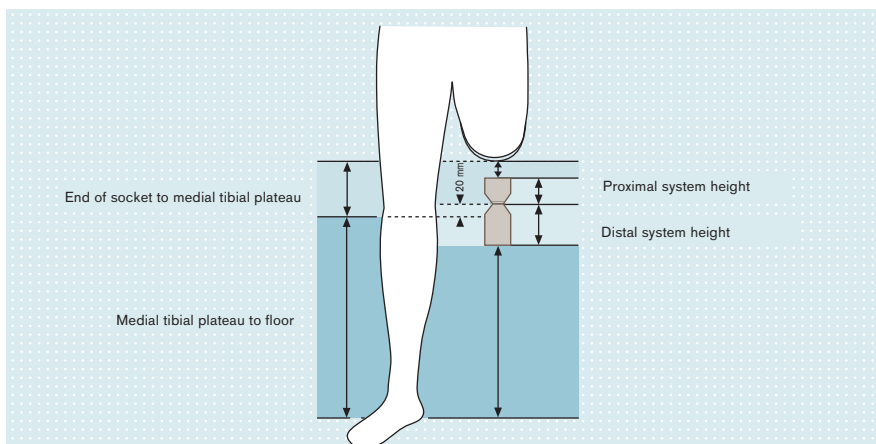
However, the system height of the knee joint alone does not provide you with information about the position of its alignment reference point.

This is why we also specify the proximal and distal system height to the alignment reference point for every modular knee joint. Now you are able to verify whether the available distal and proximal space is sufficient in order to integrate the chosen components.

Long residual limb and knee disarticulation fittings often require a compromise between shifting the knee component distal to the recommended position and, if applicable, choosing alternative components with lower system heights.

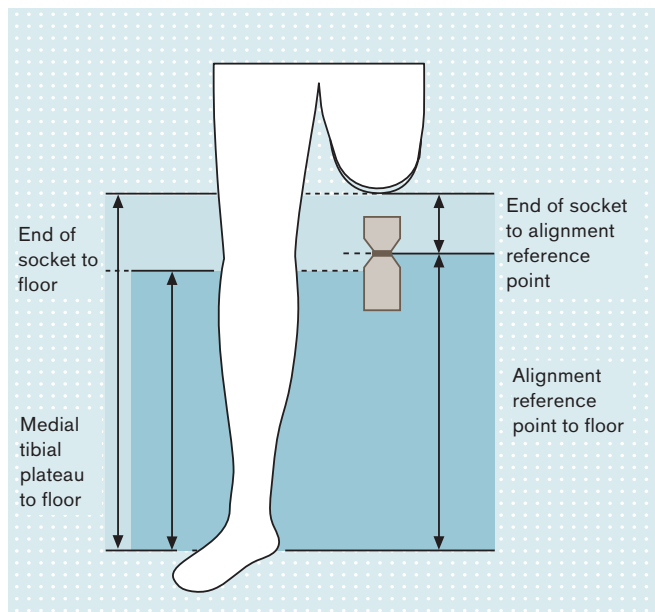


### Positioning the knee joint using the alignment reference point



## 4 Steps to Verify the Exact Fit of the Chosen Component Combination in Transfemoral Fittings

### 1. Take patient measurements



### 2. Select components



### 3. Adding system heights

Components	System height		
	min.	max.	
4R116	- 2 mm		End of socket to alignment reference point = 87 mm
4R72=32	69 mm		
4R57	22 mm		
	Proximal -2 mm		
3R60	Distal 173 mm		Alignment reference point to floor min. = 455 mm, max = 831 mm
4R52	33 mm		
4R121=30	177 mm	553 mm	
1D35, size 27	72 mm		
<b>Structural height =</b>	<b>542 mm</b>	<b>918 mm</b>	

### 4. Comparing available socket-to-floor distance and clearance of the component combination.

The value of the socket end-floor measurement must be in between the minimum and maximum structural height of the component combination. Now you can also verify whether the chosen components permit optimum positioning of the knee joint (alignment reference point + 20 mm above the medial tibial plateau).

## MOBIS

### The Ottobock Mobility System


Quality and individuality are our top priority in the fabrication of a modular lower limb prosthesis. The choice of the correct prosthesis components by the prosthetist is a decisive factor for a successful fitting.

MOBIS is a further development of the Ottobock classification system introduced in 1994. It focuses on the person and his/her need for a better quality of life.

Four mobility grades and four weight classes form the basis of the MOBIS selection system.

With the help of the MOBIS symbol, the prosthetist can immediately recognise the mobility grade and patient weight for which functional components such as prosthetic feet, knee joints and hip joints are recommended.

With the exception of the torsion adapters and the DeltaTwist, the usual classification by patient weight applies to adapters.

 PLEASE NOTE: MOBIS categories are similar but not exactly equivalent to U.S. K-Level classification.



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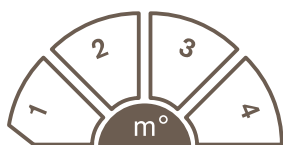
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## The Ottobock Mobility System

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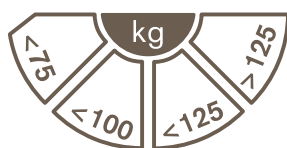
The four mobility grades

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The four weight categories



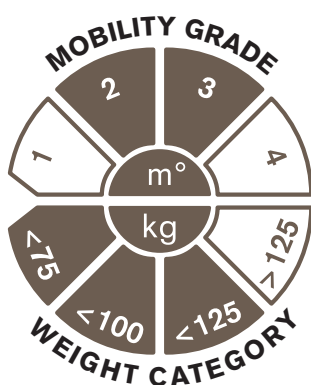
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### MOBIS is based on 4 mobility grades:

Indoor walker, restricted outdoor walker, unrestricted outdoor walker and unrestricted outdoor walker with especially high requirements.

### MOBIS defines 4 weight classes:

Patient weight up to 75 kg (165 lbs), up to 100 kg (220 lbs), up to 125 kg and over 125 kg (275 lbs). Ottobock thereby combines all information required for the selection of prosthesis components under one symbol. As usual, the component with the lowest weight classes is decisive for determining the maximum body weight. For example, if the 2R50 Tube Adapter is used, a maximum user weight of 100 kg (220 lbs) applies for the entire prosthesis.

### MOBIS is easy to apply.

For example, the shaded segments in the upper half of the symbol show that the new 3R60 Modular EBS Knee Joint is recommended for users with mobility grade two and three. The notch on the left edge clarifies the counting direction. In the lower half, the segments <75 kg (165 lbs) to <125 kg (275 lbs) are shaded. Accordingly the new 3R60 is approved for a user weight of up to 125 kg (275 lbs).

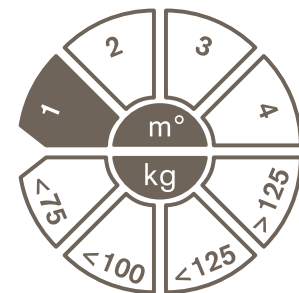
## The Ottobock Mobility System: Mobility Grades and Therapy Goals

### Indoor walker

The patient has the ability or the potential to use the prosthesis for transfers or for the purpose of moving slowly on level floors. The amount of time and the distance the amputee can walk are seriously limited due to his or her condition.

**Therapy goal:**

Restoring the ability to stand and to walk indoors to a limited degree.



### Restricted outdoor walker

The patient has the ability or the potential to walk slowly with the prosthesis and to negotiate low environmental obstacles like curbs, single steps or uneven surfaces. The amount of time and the distance the amputee can walk are seriously limited due to his or her condition.

**Therapy goal:**

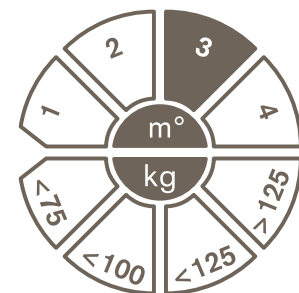
Restoring the patient's ability to stand and walk both indoors and outdoors.

### Unrestricted outdoor walker

The patient has the ability or the potential to walk with the prosthesis at a medium to high speed as well as at different speeds and simultaneously overcome most natural obstacles. He or she is also capable of walking outdoors and engaging in professional, therapeutic and other activities that do not subject the prosthesis to above-average mechanical strain. There may be an increased need for safety due to secondary circumstances (additional disability, special living conditions) combined with medium to high mobility demands. The amount of time and the distance the patient can walk are only mildly restricted compared to individuals without disabilities.

**Therapy goal:**

Restoring the patient's ability to stand and to walk indoors and outdoors with only mild restrictions.

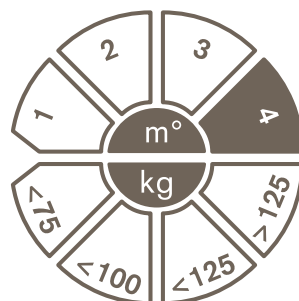


### Unrestricted outdoor walker with especially high requirements

The patient's ability or potential to walk with a prosthesis is similar to that of the unrestricted outdoor walker. The amount of time and walking distance are not limited. Moreover, due to the high functional demands, a high degree of shock, tension and distortion can occur.

**Therapy goal:**

Restoring the ability to stand, walk and move about both indoors and outdoors without any limitations.



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## Prosthetic Feet for Mobility Grade 1

Safe standing and movement are of the utmost importance for users in mobility grade 1. The gait pattern is defined by a short stride length and slow, constant walking speed. Other mobility aids are typically used as well. The amount of time and distance the patient can walk are severely limited.

For this group of prosthesis users, stability – both when standing and when walking – is the most important requirement for a prosthetic foot. The ideal prosthetic foot should achieve a safe standing position quickly after heel strike, so that the user is stabilised and can safely support his or her weight on the foot. A low net weight of the foot is advantageous.



## Prosthetic Feet for Mobility Grade 2

In addition to safety while standing and walking, the increased activity of users in mobility grade 2 requires easy walking that protects the joints and tissue. The stride length approximates the normal gait and seldom varies. The amount of time and walking distance are limited. Mobility aids are typically used for additional safety outside the house, but more rarely at home.

These users expect stability from their prosthetic foot, especially while standing. Thanks to their better gait characteristics, an easy rollover while walking is also of special importance. Dampening at heel strike to protect the joints and sensitive residual limb tissue, as well as the dynamic transition from the stance to the swing phase, round out the ideal prosthetic foot. Moderate multi-axial mobility of the foot with the compensation of torsion moments can be helpful when walking on uneven surfaces.

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## Prosthetic Feet for Mobility Grade 3

Users in mobility grade 3 have a variety of requirements for a prosthetic foot. They generally move at a walking speed of 1.3 to 1.5 m/s. Compared to non-amputees, limitations in the walking duration and distance are immaterial. The stride length approximates the parameters of a non-amputee. Special living conditions or additional disabilities may result in an elevated need for safety.

This group of prosthesis users pursues everyday, work and leisure activities that expose the prosthesis to medium to high but low-impact use. Due to their gait characteristics and virtually unrestricted mobility, these users require a prosthetic foot that provides an easy rollover and good energy efficiency, and is able to adapt to uneven surfaces.



## Prosthetic Feet for Mobility Grade 4

Users in mobility grade 4 have special requirements for their prosthetic fitting. They typically move at a walking speed in excess of 1.5 m/s and frequently vary the speed. The walking duration and distance are not limited. The stride length corresponds to the parameters of a non-amputee.

This group of prosthesis wearers pursues activities – at work and in sports – that expose the prosthesis to extreme strain as well as sudden impacts. Examples include occupations involving physical labour, and sports such as football, tennis or basketball. Because of their unrestricted mobility, these users require a prosthetic foot that offers an easy rollover, good forefoot support and very good energy efficiency, which can also adapt to uneven surfaces.



# 1 Function Matrix – Prosthetic Feet

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The mobility grade, body weight, amputation level, the amputee's life situation as well as his or her individual need for mobility and stability are all factors that influence the choice of suitable prosthetic components. To provide the amputee with the best possible prosthetic system that meets his or her needs, it is essential to ensure that the prosthesis components complement each other optimally.

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All components must therefore be selected with the greatest care. This applies in particular to the prosthetic foot, because it greatly influences the biomechanical properties of all prostheses.

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The function matrix provides a comprehensive overview of the properties of Ottobock prosthetic feet. Devised by a team of engineers, prosthetists and biomechanical experts, the scheme providing the basis for assessment was subsequently proven in practice. The classification of Ottobock prosthetic feet is based on objective, technical measurements. As a result, the function matrix not only provides a tool for assessing individual prosthetic feet, but also for comparing the individual products with each other.

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This makes choosing a suitable prosthetic foot for a particular patient much easier.

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### Important to know:

The primary properties assess functions in the sagittal plane. They relate to the process of walking on level surfaces.

The secondary properties provide information that takes into consideration the amputee's individual requirements.

The specific gait pattern and resulting different needs of the amputee in the respective mobility grades were incorporated into the assessment process for prosthetic feet. This means that an assessment of prosthetic feet can lead to different results for the various mobility grades.

With the 1M10 Adjust, 1E56 Axtion and Triton family of prosthetic feet, the individual adaptability of their characteristics makes several embodiments possible.

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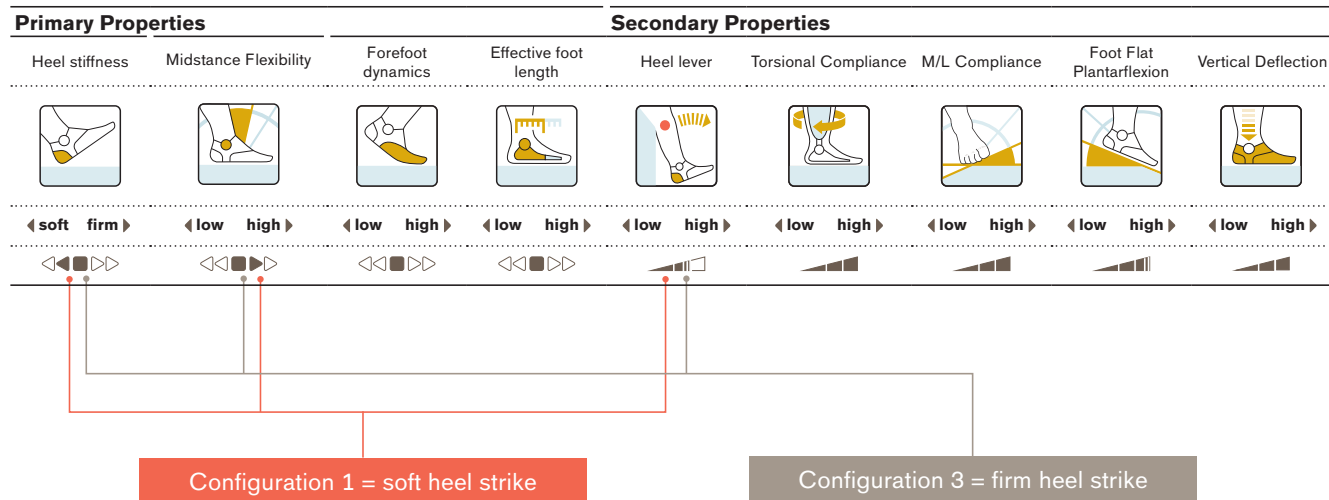
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### Example: 1M10 Adjust in mobility grade 2

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Indoor Walker

MOBIS 1

- Gait:**
- Very low walking speed at a single cadence (less than 2.5 mph)
  - Short step length and usually an asymmetrical gait
  - Walking duration and distance are significantly restricted
  - Walking aids typically used
- Main priorities:**
- High need for stability during standing and walking
  - Preferably light weight



	Suggested L-Code**	Primary Properties				Secondary Properties				
		Heel Stiffness	Midstance Flexibility	Forefoot Dynamics	Effective Foot Length	Heel Lever	Torsional Compliance	M/L Compliance	Foot Flat Plantarflexion	Vertical Deflection
<p>• Strong dorsiflexion step ensures maximum standing stability for transfemoral fittings</p> <p>• Wide range of different heel heights and shapes</p> <p>• Max. body weight: 220 lbs</p> <p>• Clearance*: starting from 3 1/2" (size 26)</p>	L5974	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Basic functionality</p> <p>• Wide range of different heel heights and shapes</p> <p>• Max. body weight: 275 lbs</p> <p>• Clearance*: starting from 3 1/2" (size 26)</p>	L5970 or L5971 (Replacement)	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Easier rollover and higher forefoot dynamics than SACH foot</p> <p>• Max. body weight: 275 lbs (without adapter) / 330 lbs (with adapter)</p> <p>• Clearance*: starting from 3 1/2" (size 26)</p>	L5972	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• High standing and walking stability combined with multi-axial behavior to compensate for uneven terrain</p> <p>• Adjustable heel stiffness for adaptation to requirements of the amputee without need for realignment of prosthesis</p> <p>• Max. body weight: 275 lbs</p> <p>• Clearance*: 3" (N), 2 1/2" (S) (size 26)</p>	L5972 + L5986	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶

Restricted Outdoor Walker

MOBIS 2

- Gait:**
- Low walking speed at a single cadence (between 2.5 - 3 mph)
  - Almost normal step length and gait symmetry
  - Limited amount of walking time and distance, but more than MG 1
  - Able to traverse low level environmental barriers like curbs
- Main priorities:**
- Moderate need for added stability from the prosthesis
  - Increased compliance from the prosthetic foot necessary due to the demands of varying terrain



	Suggested L-Code**	Primary Properties				Secondary Properties				
		Heel Stiffness	Midstance Flexibility	Forefoot Dynamics	Effective Foot Length	Heel Lever	Torsional Compliance	M/L Compliance	Foot Flat Plantarflexion	Vertical Deflection
<p>• Basic functionality</p> <p>• Wide range of different heel heights and shapes</p> <p>• Max. body weight: 275 lbs</p> <p>• Clearance*: starting from 3 1/2" (size 26)</p>	L5970 or L5971 (Replacement)	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Easier rollover and higher forefoot dynamics than SACH foot</p> <p>• Max. body weight: 275 lbs (without adapter) / 330 lbs (with adapter)</p> <p>• Clearance*: starting from 3 1/2" (size 26)</p>	L5972	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• High standing and walking stability combined with multi-axial behavior to compensate for uneven terrain</p> <p>• Adjustable heel stiffness for adaptation to requirements of the amputee without need for realignment of prosthesis</p> <p>• Max. body weight: 275 lbs</p> <p>• Clearance*: 3" (N), 2 1/2" (S) (size 26)</p>	L5972 + L5986	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶

Unrestricted Outdoor Walker

MOBIS 3

- Gait:**
- Ability to vary cadence and ambulate at a normal walking speed (3 - 3.5 mph)
  - Symmetry, step length, walking distance and duration differ only minimally from those of non-amputees
  - Most environmental barriers can be traversed
- Main priorities:**
- Easy rollover, good energy return from the foot and the ability to accommodate uneven terrain
  - Higher demand for compliance of the prosthetic foot due to a broad spectrum of activities of daily life
  - Individuals may participate in moderate recreational activities such as golf, hiking and hiking



	Suggested L-Code**	Primary Properties				Secondary Properties				
		Heel Stiffness	Midstance Flexibility	Forefoot Dynamics	Effective Foot Length	Heel Lever	Torsional Compliance	M/L Compliance	Foot Flat Plantarflexion	Vertical Deflection
<p>• Dynamic, all-around foot with progressive roll-over characteristics</p> <p>• Max. body weight: 220 lbs</p> <p>• Clearance*: 3 1/2" (size 26)</p>	L5979	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Lightweight carbon fiber foot</p> <p>• Unique asymmetrical spring elements for excellent heel shock absorption, return and energy efficient characteristics</p> <p>• Max. body weight: 275 lbs</p> <p>• Clearance*: 4 1/2" (size 26)</p>	L5981 + L5986	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Easy roll-over, good energy return and smooth transition from stance phase to swing phase due to the controlled interaction of the design elements</p> <p>• Multi-axial behavior to compensate for uneven terrain</p> <p>• Max. body weight: 220 lbs</p> <p>• Clearance*: 3 1/2" (size 26)</p>	L5981 + L5986	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Lightweight carbon-polyurethane design with particularly low structural height</p> <p>• Adjustable heel stiffness by using heel wedges</p> <p>• Max. body weight: 275 lbs</p> <p>• Clearance*: 2 1/2" (size 26)</p>	L5981	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Excellent dynamics and flexibility for high activity</p> <p>• Waterproof</p> <p>• Multi-axial performance for uneven terrain</p> <p>• Max. body weight: 330 lbs</p> <p>• For users with limited clearance: 2 1/2" (Size 26 Normal Football)</p>	L5981 + L5986	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Excellent dynamics and flexibility for high activity</p> <p>• Waterproof (ESEA HD)</p> <p>• Multi-axial performance for uneven terrain</p> <p>• Max. body weight: 330 lbs for K3 (ESEA HD: 330 lbs up to K4)</p> <p>• Clearance*: 4" (Size 26 Normal Football)</p>	L5980 + L5986	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Dynamic gait and flexibility for high activity</p> <p>• Vertical shock absorption</p> <p>• +/- 9 degrees axial torsion</p> <p>• Multi-axial performance for uneven terrain</p> <p>• Active vacuum generation (Trition Harmony*)</p> <p>• Max. body weight: 330 lbs for K3 (275 lbs for K4)</p> <p>• Clearance*: 2 1/2" (Size 26 Normal Football)</p>	L5987 + L5986 (+ L5781 Triton Harmony*)	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶

Unrestricted Outdoor Walker with Especially Rigorous Demands

MOBIS 4

- Gait:**
- Walking speed and cadence vary over a broad range (over 3.5 mph)
  - Symmetry, step length, walking distance and duration correspond to those of non-amputees
  - Often times the amputee is able to run, jump and change direction quickly
- Main priorities:**
- Excellent energy return and forefoot support at toe-off
  - Large demand upon the flexibility, dynamics and durability due to a broad spectrum of activities of daily life and moderate recreational activities like jogging, running, basketball or tennis

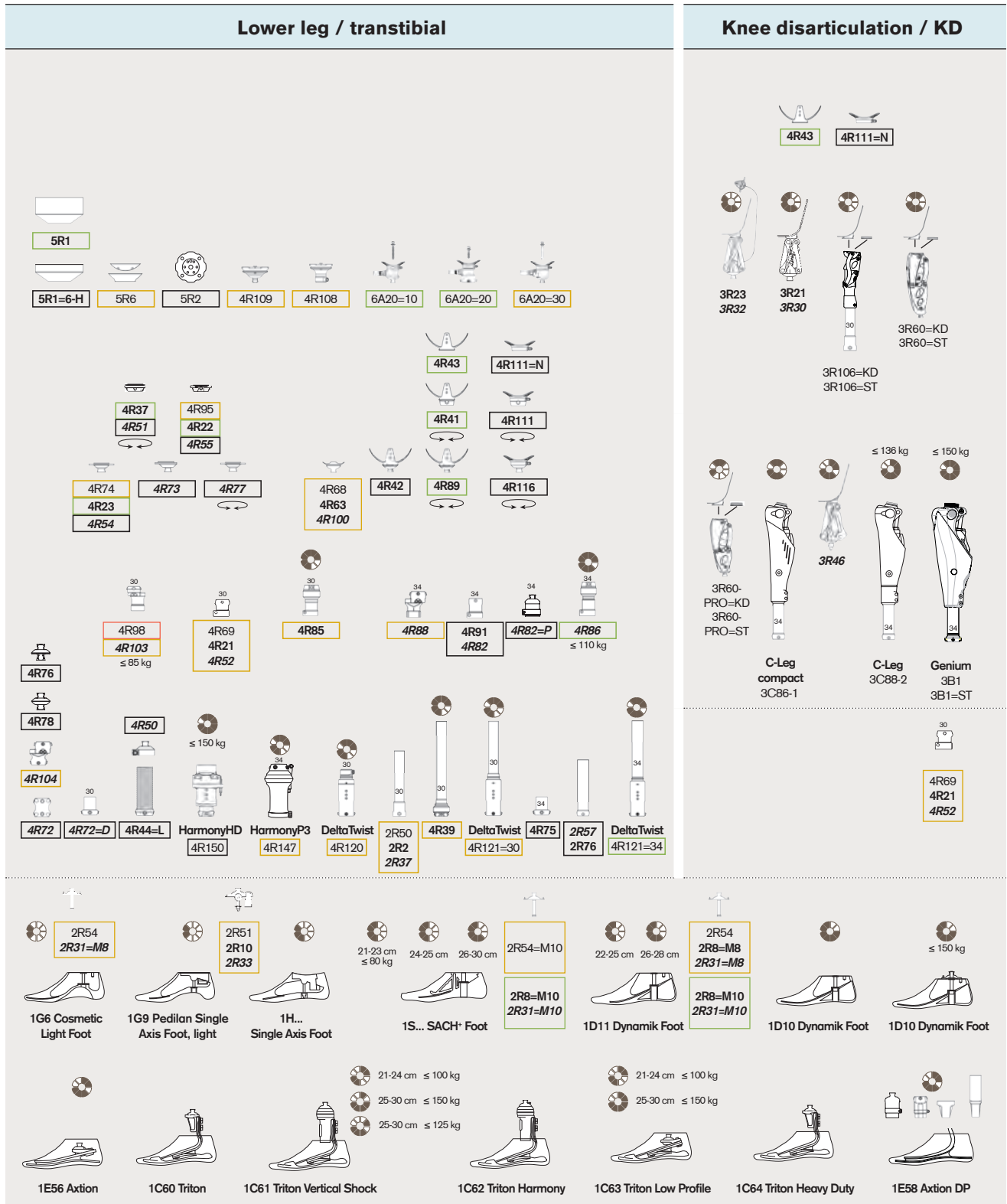


	Suggested L-Code**	Primary Properties				Secondary Properties				
		Heel Stiffness	Midstance Flexibility	Forefoot Dynamics	Effective Foot Length	Heel Lever	Torsional Compliance	M/L Compliance	Foot Flat Plantarflexion	Vertical Deflection
<p>• Easy roll-over, good energy return and smooth transition from stance phase to swing phase due to the controlled interaction of the design elements</p> <p>• Multi-axial behavior to compensate for uneven terrain</p> <p>• Max. body weight: 220 lbs</p> <p>• Clearance*: 3 1/2" (size 26)</p>	L5981 + L5986	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Lightweight carbon-polyurethane design with particularly low structural height</p> <p>• Adjustable heel stiffness by using heel wedges</p> <p>• Max. body weight: 275 lbs</p> <p>• Clearance*: 2 1/2" (size 26)</p>	L5981	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Excellent dynamics and flexibility for high activity</p> <p>• Waterproof</p> <p>• Multi-axial performance for uneven terrain</p> <p>• Max. body weight: 330 lbs</p> <p>• For users with limited clearance: 2 1/2" (Size 26 Normal Football)</p>	L5981 + L5986	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Excellent dynamics and flexibility for high activity</p> <p>• Waterproof (ESEA HD)</p> <p>• Multi-axial performance for uneven terrain</p> <p>• Max. body weight: 330 lbs for K3 (ESEA HD: 330 lbs up to K4)</p> <p>• Clearance*: 4" (Size 26 Normal Football)</p>	L5980 + L5986	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶
<p>• Dynamic gait and flexibility for high activity</p> <p>• Vertical shock absorption</p> <p>• +/- 9 degrees axial torsion</p> <p>• Multi-axial performance for uneven terrain</p> <p>• Active vacuum generation (Trition Harmony*)</p> <p>• Max. body weight: 330 lbs for K3 (275 lbs for K4)</p> <p>• Clearance*: 2 1/2" (Size 26 Normal Football)</p>	L5987 + L5986 (+ L5781 Triton Harmony*)	◀◀ soft ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶	◀ low ▶ high ▶▶

\*\* Including footshell and adapter  
\*\* The responsibility for accurate coding lies with the patient care facility that selects a product and fits the patient. Ottobock's coding recommendations are based on our best judgment. These recommendations are open to revision based on additional information or changes in the alpha numeric system.



System Overview for Ottobock Modular Lower Limb Prostheses



**Additional Information on the MOBIS System Overview**

To allow quick selection, the prosthetic components are arranged according to amputation levels and subdivided into the levels of prosthetic feet, tube adapters/ tube clamp adapters, knee joints and socket adapters or hip joints. The article numbers are found below the prosthesis components. Components made of aluminium are printed in a normal font (4R68), **steel components in bold (4R63)** and **titanium components in bold and italics (3R36)**.

The MOBIS seal shows the classification of the functional components according to the mobility grade and patient weight. For structural components such as tube adapters and socket adapters, the coloured frame around the article number stands for the permitted patient weight:

- = up to 75 kg (165 lbs)
- = up to 100 kg (220 lbs)
- = up to 125 kg (275 lbs)
- = up to 125 kg (275 lbs)

### Thigh / transfemoral

6A20=10 6A20=20 6A20=30 5R1 5R1=6-H 5R2 5R6 4R43 4R111=N 4R119 ≤ 150 kg 4R111 4R101 4R118 4R95 4R37 4R41 4R22 4R51 4R42 4R89 4R76 4R78 4R40 4R74 4R77 4R73 4R42 4R23 4R54 4R55 4R116 4R104 4R50 4R98 4R103 ≤ 85 kg 4R69 4R21 4R52 2R50 2R2 2R37 4R91 4R82 4R82=P 2R57 2R76

### Hip disarticulation / HD

7E5 7E4 7E7 7E10 Helix<sup>®</sup> 7E9 4R69 4R21 4R52 4R85 4R56 4R56=1 4R56=2 ≤ 100 kg 4R156 4R156=1 4R156=2 ≤ 150 kg

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3R40 3R41 3R17 3R33 3R15 3R49 3R20 3R36 3R93 3R90 3R92 3R106 3R106=ST 3R106=HD 3R60 3R60=ST 3R60=S 3R60=HD 3R60-PRO 3R60-PRO=ST 3R55 3R80 3R95=1 3R95 C-Leg compact 3C96-1 3C86-1 C-Leg 3C98-2 3C88-2 Genium 3B1 3B1=ST

2R49 2R3 2R38 4R85 4R39 4R121=30 4R91 4R82 2R58 2R77 4R86 ≤ 110 kg 4R121=34

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22-23 cm ≤ 80 kg 24-25 cm 26-30 cm 24-25 cm 26-29 cm 22-25 cm 26-30 cm 21-22 cm ≤ 80 kg 23-24 cm ≤ 95 kg 25-26 cm ≤ 110 kg 27-30 cm 1M10 Adjust 1A30 Greissinger plus 1D35 Dynamic Motion 1C30 Trias 1C40 C-Walk 1E50/51 Advantage DP2 1E61 Springlite II 1E80/81/82 Chopart 1C20 ProSymes 1E57 Lo Rider

The ankle moments which occur with the Lo Rider and Axion carbon spring feet put a heavy strain on the adjoining prosthetic components. Therefore, structural components of the next higher weight class are to be used below the knee joint when using one of these feet; e.g. Axion for a patient with a body weight of 90 kg (198 lbs): use an adapter for a body weight of up to 125 kg (275 lbs) (e.g. 2R58 and 4R82). Customer Service will provide you with further information on the combination of the adapters shown here with pylon feet.

The prosthetic component of the lowest weight category determines the maximum patient weight. For a patient weight in excess of 125 kg (275 lbs), we recommend consulting Customer Service directly for the selection and combination of prosthetic components.

Combining the functional components is simplified by the MOBIS seal: e.g. 3R92 Knee Joint and 1D35 Prosthetic Foot. Recommendations for the optimum combination of Ottobock prosthetic components are found in the Component Combination Overview: Hip-Knee-Foot on page 8 and 9.

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This overview provides recommendations for the functional interaction of the knee joint and prosthetic foot. They are the result of biomechanical, practical fitting experience and are harmonised with MOBIS. The significant influence of the residual limb and its performance on the system as a whole must be taken into account on a case-by-case basis. A well-fitting prosthetic socket and correct alignment are assumed as a basis.

		Cosmetic Foot, light 1G6	Pedlan Single Axis Foot, 1G9	Single Axis Foot 1H...	SACH Foot 1S...	Dynamic Foot 1D10/D11	Adjust 1M10	Greissinger plus 1A30	Dynamic Motion 1D35	Trias 1C30	C-Walk 1C40	Axton 1E56	Axton DP 1E58	Advantage DP 2 1E50/51	Springlite II 1E61	Lo Rider 1E57	Triton 1C60	Triton Vertical Shock 1C61	Triton Harmony 1C62	Triton Low Profile 1C63	Triton Heavy Duty 1C64
KD	3R23 3R32	■	■	■	■	■	■														
	3R21 3R30			■	■	■	■	■													
	3R106=KD						■	■	■	■	■	■	■				■	■	■	■	■
	3R60=KD 3R60-PRO=KD						■	■	■	■	■	■	■				■	■	■	■	■
	3R46								■	■	■	■	■	■	■		■	■	■	■	■
	3R40 3R17 3R33	■	■	■	■	■	■														
3R41	■	■	■	■	■	■															
3R15 3R49			■	■	■	■	■														
3R20 3R36	3R90 3R93				■	■	■	■	■	■											
3R92						■	■	■	■	■	■	■	■	■			■	■	■	■	■
3R78						■	■	■	■	■	■	■	■	■			■	■	■	■	■
TF	3R106 3R106=ST	3R60 3R60=ST 3R60-PRO 3R60-PRO=ST					■	■	■	■	■	■	■	■			■	■	■	■	■
C-Leg compact 3C86-1	C-Leg compact 3C96-1					■	■	■	■	■	■	■	■			■					
3R95 3R95=1							■	■	■	■	■	■	■	■			■	■	■	■	■
3R55 3R80								■	■	■	■	■	■	■	■		■	■	■	■	■
C-Leg 3C88-2	C-Leg 3C98-2						■	■	■	■	■	■	■			■	■	■	■	■	■
Genium 3B1	3B1=ST						■	■	■	■	■	■	■			■	■	■	■	■	■

This overview provides recommendations for the functional interaction of the knee joint and prosthetic foot. They are the result of technical studies, biomechanical insights and practical fitting experience, and are harmonised with MOBIS. The significant influence of the residual limb and its performance on the system as a whole must be taken into account on a case-by-case basis. A well-fitting prosthetic socket and correct alignment are assumed as a basis.

		SACH Foot 1S...	Dynamic Foot 1D10/D11	Adjust 1M10	Greissinger plus 1A30	Dynamic Motion 1D35	Trias 1C30	C-Walk 1C40	Action 1E56	Action DP 1E58	Lo Rider 1E57	Triton 1C60	Triton Vertical Shock 1C61	Triton Low Profile 1C63	Triton Heavy Duty 1C64
HD	7E5	■	■	■											
		3R20 3R36													
	7E4	■	■	■	■	■	■								
		3R20 3R36													
		3R60=HD 3R60-PRO=HD			■	■	■	■	■						
		3R36	■	■	■	■	■								
		3R106=HD			■	■	■	■	■	■	■		■	■	■
	7E7			■	■	■	■	■	■	■	■		■	■	■
		3R60=HD 3R60-PRO=HD													
		C-Leg Compact 3C96-1		■	■	■	■	■	■	■		■	■	■	■
		C-Leg 3C98-2				■	■	■	■	■		■	■	■	■
		3R106=HD			■	■	■	■	■	■		■	■	■	■
	7E9				■	■	■	■	■	■		■	■	■	■
		3R60=HD 3R60-PRO=HD													
	C-Leg 3C98-2				■	■	■	■	■		■	■	■	■	
	Genium 3B1			■		■	■	■	■		■	■	■	■	
7E10					■	■	■	■	■		■	■	■	■	
	C-Leg 3C98-2														
	Genium 3B1			■		■	■	■	■		■	■	■	■	

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# Lower Limb Prostheses for Children

Children are ready to discover the whole world. They want to be independent early on and “keep pace” not only when playing and romping about, but also for all everyday activities.

The prosthetic fitting of children and adolescents is a challenge for humans and technology. Ottobock adapted its proven modular system for adults to the special needs of children. Using solid light metal, we designed very light, stable and functional modules.

Ottobock feet for children are available in sizes from 12 to 21 cm, permitting a full range of fittings for any age. Depending on the available installation space and the activity level, a choice of carbon feet and conventional prosthetic feet is available.

The 3R66 Polycentric Knee Joint allows for great mobility through its large 165° flexion angle. Additionally supported by an integrated rotation unit, children can easily assume the sitting and squatting position they like to take on for playing.

Children grow fast and expect more from their prosthesis in terms of functionality and load capacity as they grow up. The use of a 3R65 Knee Joint with a hydraulic swing phase control is recommended in this phase. It allows a wide range of walking speeds and thereby adapts optimally to the changing, sometimes fast, sometimes slower steps of the child.

The Ottobock modular system supports children from 2 years of age as they grow up, and also permits a smooth transition to the system for adults. For children 13 years and up or from a body weight over 45 kg, body size of 145 cm or foot size 21, knee joints such as the 3R106 or 3R95=1 can therefore be used.

Due to the extreme stresses that children place on the components, regular inspections and servicing by the prosthetist are essential in practice. We recommend that the components be inspected every 3 months. Proper functionality should be verified and the tube adapters examined for any evidence of deformities or damage.

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## 1S30 SACH Foot for Children

The 1S30 SACH\* Foot for Children is constructed in two sections and is especially suitable for young children who require a stable foot. The sole of the foot is replaceable. The functional properties are achieved through the proven combination of a contoured core and functional foam. It has been designed for use in modular or exoskeletal prostheses, and can be combined with the 2R40=2 Modular Adapter or the 2K36=17 Shaped Ankle Part.

Order example

Reference number	=	Side	Size
<b>1S30</b>	=	L	12
<b>Reference number</b>	<b>1S30</b>		
<b>Heel height</b>	10 +/- 5 mm		
<b>Side</b>	Left (L), Right (R)		
<b>Size</b>	12 cm		13 cm
<b>System height with adapter</b>	37 mm		40 mm
<b>Weight (without adapter)</b>	~ 90 g		~ 100 g
<b>Colour</b>	beige/white		
<b>Max. body weight</b>	35 kg		

## Single Components as Spare Parts for 1S30 SACH Foot for Children

### 2Z25 Pedilan sole with heel wedge for 1S30

Order example

Reference number	=	Side	Size
<b>2Z25</b>	=	L	12
<b>Reference number</b>	<b>2Z25</b>		
<b>Side</b>	Left (L), Right (R)		
<b>Size</b>	12 cm		13 cm

🔗 Accessories for modular and exoskeletal prostheses Page 38

## 1K30 Ottobock SACH Foot for Children

The 1K30 SACH\* Foot for Children is a robust prosthetic foot, tailored to the special needs of young prosthesis wearers. It has a natural shape, smooth surface and formed toes. The functional properties are achieved through the proven combination of a contoured core and functional foam. It is designed for use in modular and exoskeletal prostheses, and can be combined with a modular adapter or shaped ankle part.

Order example

Reference number	=	Side	Size					
<b>1K30</b>	=	L	16					
Reference number	<b>1K30</b>							
Heel height	5 +/- 5 mm							
Side	Left (L), Right (R)							
Size	14 cm	15 cm	16 cm	17 cm	18 cm	19 cm	20 cm	21 cm
System height with 2R40	40 mm	42 mm	44 mm	46 mm	48 mm	50 mm	52 mm	54 mm
Weight (without adapter)	~95 g	~115 g	~125 g	~145 g	~175 g	~180 g	~200 g	~220 g
Colour	beige							
Max. body weight	35 kg			45 kg				

• Not available in US



## 1K10 Ottobock Dynamic Foot for Children

The 1K10 is a robust dynamic foot with a natural shape, smooth surface and formed toes. The contoured core construction and the use of foams with different characteristics result in a pleasant heel impact and, compared to the SACH\* foot, an easier rollover and improved energy return. The 1K10 was designed for use in modular or exoskeletal prostheses and can be combined with a modular adapter or ankle block.

Order example

Reference number	=	Side	Size					
<b>1K10</b>	=	L	16					
Reference number	<b>1K10</b>							
Heel height	5 +/- 5 mm							
Side	Left (L), Right (R)							
Size	14 cm	15 cm	16 cm	17 cm	18 cm	19 cm	20 cm	21 cm
System height with 2R40	40 mm	42 mm	44 mm	46 mm	48 mm	50 mm	52 mm	54 mm
Weight (without adapter)	~120 g	~130 g	~140 g	~155 g	~180 g	~210 g	~230 g	~255 g
Colour	beige							
Max. body weight	35 kg			45 kg				



\*Solid Ankle Cushion Heel

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## Modular System Accessories

• Please order separately.



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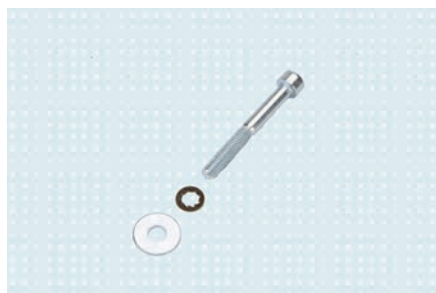
### 2R40 Foot Adapter with Screw Connection



Article number	2R40=2	2R40=1
<b>Material</b>	Aluminium/steel	
<b>for</b>	all 1S and 1K children's feet in sizes 12 – 17 cm	all 1S and 1K children's feet in sizes 18 – 21 cm
<b>Weight</b>	45 g	80 g
<b>with</b>	636W28 Ottobock Special Adhesive and Hardener	
<b>Max. body weight</b>	35 kg	45 kg

• System height already taken into consideration with the foot.

## Single Components as Spare Parts for 2R40



Article number	2D6=M6	2D6=M8
<b>for</b>	2R40=2	2R40=1
<b>Scope of Delivery</b>	1 cap screw 1 washer	1 cap screw (steel) 1 washer

## Exoskeletal Accessories

• Please order separately.

### 2K36 Shaped Ankle Part

without threaded bushing, for use on the left and right side

Article number	2K36=17	2K36=21
Size	12 – 17 cm	18 – 21 cm



### 2Z22 Screw Connection



Article number	2Z22=M6	2Z22=M8x70
for	2K36=17	2K36=21
Scope of Delivery	1 threaded bushing 1 cap screw 1 washer	




### 1E66 Springlite II for Children

The 1E66 Springlite II for Children is a carbon prosthetic foot with high energy return for everyday activities and recreational sports.

The foot is custom-made.

Reference number	1E66								
Heel height	6 mm								
Size	13 cm	14 cm	15 cm	16 cm	17 cm	18 cm	19 cm	20 cm	21 cm
Min. system height	109 mm								
Max. system height	380 mm								
Weight (without footshell and adapter)	~240 g	~243 g	~245 g	~248 g	~250 g	~253 g	~255 g	~258 g	~260 g
Max. body weight	50 kg								



 SL=42P310

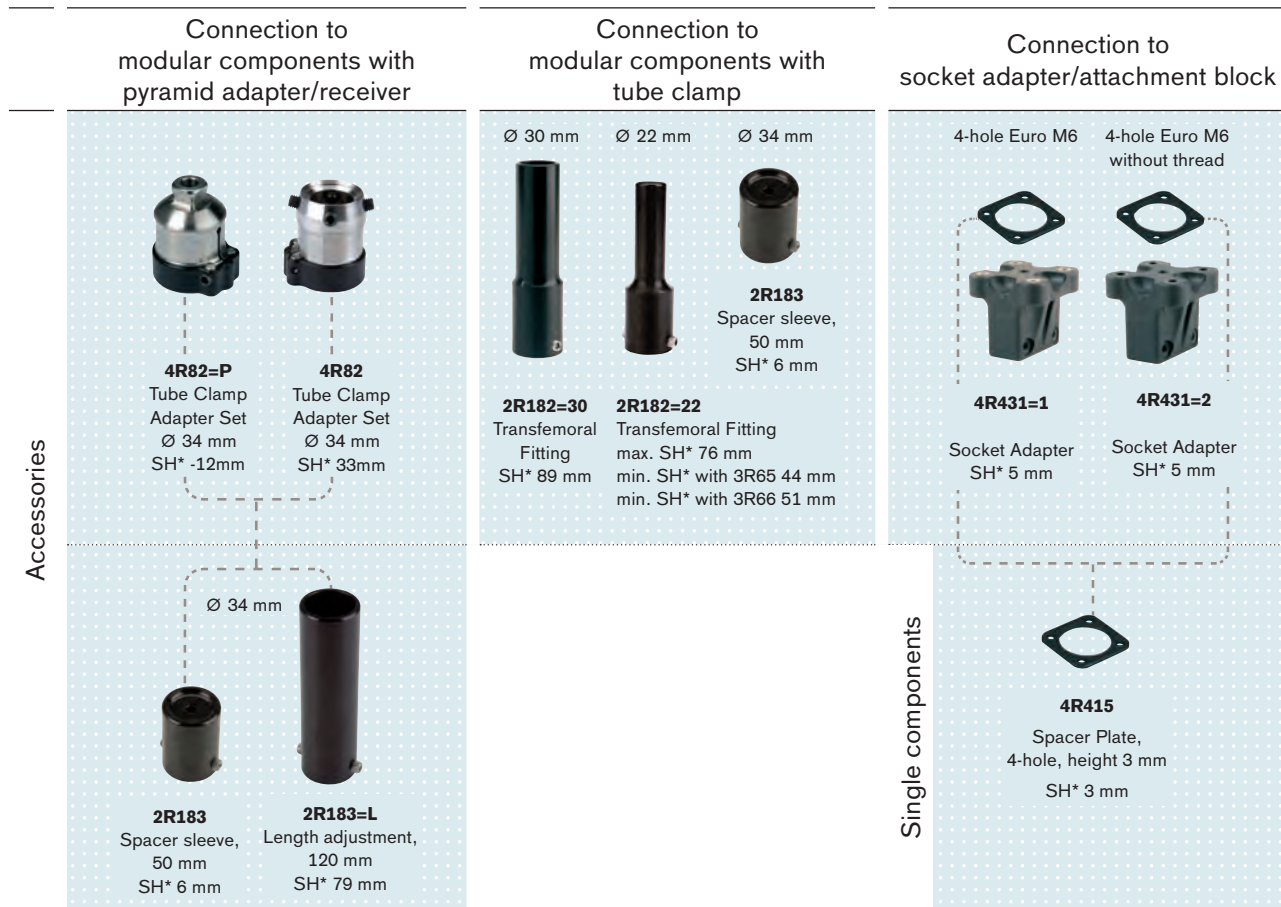
• Please order directly through customer service.

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## Combination Possibilities for the Modular System

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### Combination Possibilities for the Modular System



\* SH = system height

- 2R182=22: combination with 3R39 and 3R65.

The remaining components can no longer be used with the Ottobock system for children; please use the MOBIS components.

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## 1E79 SL Profile for Children

The 1E79 SL Profile for Children is a lightweight carbon foot suitable for Symes amputees. It is supplied with a pyramid for connection to the Ottobock modular system according to MOBIS. The foot is custom-made.

<b>Reference number</b>	<b>1E79</b>		
<b>Heel height</b>	6 mm		
<b>Size</b>	19 cm	20 cm	21 cm
<b>System height</b>	6 mm		
<b>Weight (without footshell)</b>	~155 g	~160 g	~165 g
<b>Max. body weight</b>	50 kg		

- Please order directly through customer service.
- Not compatible with the Ottobock system for children; please use MOBIS components.



647G338=04

## 1E87 Chopart Footplate for Children

The 1E87 Chopart Footplate for Children is a carbon foot with very low clearance for fitting Chopart or hindfoot amputations. A complete kit for the direct connection to the prosthetic socket is available as an accessory. The foot is custom-made.

<b>Reference number</b>	<b>1E87</b>									
<b>Heel height</b>	6 mm									
<b>Size</b>	13 cm	14 cm	15 cm	16 cm	17 cm	18 cm	19 cm	20 cm	21 cm	
<b>Structural height</b>	15 mm			16 mm			17 mm			
<b>Weight (without footshell)</b>	~20 g	~21 g	~22 g	~23 g	~24 g	~25 g	~26 g	~27 g	~28 g	
<b>Max. body weight</b>	50 kg									

- Please order directly through customer service.



SL=42P303

## Accessories

- Order separately as necessary.

## 2E3 Footshell for Children

Order example

<b>Reference number</b>	=	<b>Side</b>	<b>Size</b>							
<b>2E3</b>	=	L	14							
<b>Reference number</b>	<b>2E3</b>									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	13 cm	14 cm	15 cm	16 cm	17 cm	18 cm	19 cm	20 cm	21 cm	
<b>Weight</b>	~60 g	~65 g	~70 g	~80 g	~90 g	~95 g	~100 g	~110 g	~120 g	
<b>Colour</b>	beige									





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### SL=P078 Chopart Bonding Kit

Contains 636W80 Primer

Article number

SL=P078

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### SL=P071 Fill Footshell Foam Kit

Soft, elastic foam for optional filling of the footshell.

Article number

SL=P071

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## 2R41=1 Tube Adapter

The 2R41=1 Tube Adapter is designed for combination with the 2R40=1 Foot Adapter, and is suitable exclusively for use in transtibial prostheses and transfemoral prostheses below the knee joint.

<b>Article number</b>	<b>2R41=1</b>
<b>Diameter</b>	22 mm
<b>Material</b>	Aluminum
<b>Min. system height</b>	87 mm
<b>Max. system height</b>	330 mm
<b>Weight</b>	140 g
<b>Max. body weight</b>	45 kg



647G97

## 2R41=2 Tube Adapter

The 2R41=2 Tube Adapter is designed for combination with the 2R40=2 Foot Adapter, and is suitable exclusively for use in transtibial prostheses and transfemoral prostheses, both above and below the knee joint.

<b>Article number</b>	<b>2R41=2</b>
<b>Diameter</b>	22 mm
<b>Material</b>	Aluminum
<b>Min. system height</b>	85 mm
<b>Max. system height</b>	288 mm
<b>Weight</b>	125 g
<b>Max. body weight</b>	35 kg



647G97

## 2R48 Tube Adapter, angled 13°

The 2R48 Tube Adapter, angled is designed for combination with the 7E8 Modular Hip Joint.

<b>Article number</b>	<b>2R48</b>
<b>Diameter</b>	22 mm
<b>Material</b>	Aluminum
<b>Min. system height</b>	87 mm
<b>Max. system height</b>	229 mm
<b>Weight</b>	105 g
<b>Max. body weight</b>	45 kg



647G97

## 4R66 Tube Clamp Adapter

The 4R66 Tube Clamp Adapter is intended exclusively for use in transtibial prostheses.

<b>Article number</b>	<b>4R66</b>
<b>Diameter</b>	22 mm
<b>Material</b>	Aluminum
<b>System height</b>	- 11 mm
<b>Weight</b>	45 g
<b>Max. body weight</b>	45 kg



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647H119

### 5R9 Socket Attachment Block

The 5R9 Socket Attachment Block is intended for use in transtibial and transfemoral prostheses.

<b>Article number</b>	<b>5R9</b>
<b>Material</b>	Plastic
<b>System height</b>	30 mm
<b>Weight</b>	125 g
<b>Max. body weight</b>	45 kg

• The enclosed 4X8 Lamination Dummy is to be used for laminating.

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647H119

### 4R60 Socket Adapter

The 4R60 Socket Adapter is intended for use in transtibial and transfemoral prostheses.

<b>Article number</b>	<b>4R60</b>
<b>Material</b>	Aluminum
<b>System height</b>	33 mm
<b>Weight</b>	45 g
<b>Max. body weight</b>	45 kg

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647H252

### 4R110 Lamination Anchor with Pyramid Receiver

The 4R110 Lamination Anchor is suited for use in transtibial and transfemoral prostheses, and is laminated into the socket.

<b>Article number</b>	<b>4R110</b>
<b>Material</b>	Aluminum
<b>System height</b>	35 mm
<b>Weight</b>	55 g
<b>Max. body weight</b>	45 kg

• The enclosed lamination dummy is to be used for laminating.

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## Single Components as Replacement Parts

Article number	2R41=1	2R41=2	2R48	4R60	4R66	4R110	5R9
<b>4X8</b> Lamination dummy							■
<b>501S41=M5x16</b> Countersunk head screw							▲
<b>501S42=M6X18</b> Oval Allen head screw					▲		
<b>506G3=M6</b> Set screw	▲	▲	▲	▲		▲	

▲ Minimum order quantity required

■ Can be ordered individually

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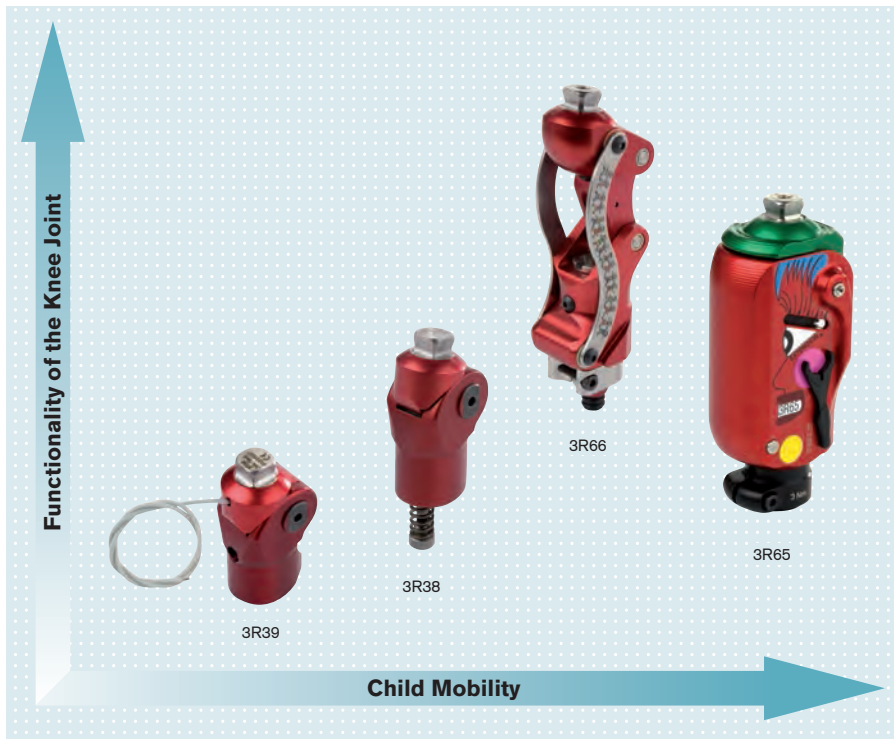
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## Modular Knee Joints for Children



### 3R39 Modular Knee Joint with Lock

<b>Article number</b>	<b>3R39</b>
<b>Material</b>	Aluminum
<b>Proximal connection</b>	Pyramid adapter
<b>Distal connection</b>	Tube clamp Ø 22 mm
<b>Knee flexion angle</b>	145 °
<b>System height</b>	24 mm
<b>proximal system height to alignment reference point</b>	2 mm
<b>distal system height to alignment reference point</b>	22 mm
<b>Weight</b>	145 g
<b>Design</b>	monocentric
<b>with</b>	adjustable locking mechanism to lock the joint
<b>Max. body weight</b>	45 kg



647G99


## Single Components as Replacement Parts

### 4D20 Single Component Pack

<b>Article number</b>	<b>4D20</b>
<b>for</b>	3R39
<b>Consisting of</b>	1 joint axis 2 bearing washers 1 cylinder pin

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### 3R38 Modular Knee Joint with individually adjustable extension assist mechanism to control the swing phase

<b>Article number</b>	<b>3R38</b>
<b>Material</b>	Aluminum
<b>Proximal connection</b>	Pyramid adapter
<b>Distal connection</b>	Tube clamp Ø 22 mm
<b>Knee flexion angle</b>	145 °
<b>System height</b>	24 mm
<b>proximal system height to alignment reference point</b>	2 mm
<b>distal system height to alignment reference point</b>	22 mm
<b>Weight</b>	160 g
<b>Design</b>	monocentric
<b>Max. body weight</b>	45 kg

## Single Components as Replacement Parts

### 4D15 Single Component Pack

<b>Article number</b>	<b>4D15</b>
<b>for</b>	3R38
<b>Consisting of</b>	1 cylinder pin 1 guide sleeve 1 round seal 1 joint axis 2 bearing washers



 647H212

### 3R66 Modular Knee Joint with Integrated Rotation

- individually adjustable knee safety thanks to adjustable stop
- individually adjustable extension assist mechanism to control the swing phase

A rotation unit integrated in the lower joint section permits rotation of the prosthetic foot with automatic return upon load relief. Combined with the large flexion angle of approx. 165°, this enables a comfortable 'kneeling position' as well as crouching with the foot rotated to the outside.

<b>Reference number</b>	<b>3R66</b>
<b>Material</b>	Aluminum
<b>Proximal connection</b>	Pyramid adapter
<b>Distal connection</b>	Tube clamp Ø 22 mm
<b>Knee flexion angle</b>	175 °
<b>System height</b>	78 mm
<b>proximal system height to alignment reference point</b>	- 6 mm
<b>distal system height to alignment reference point</b>	83 mm
<b>Weight</b>	310 g
<b>Design</b>	polycentric
<b>Max. body weight</b>	35 kg

- Not suitable for hip disarticulation fittings.

## 3R65 Modular Knee Joint with Hydraulic Swing Phase Control

A miniature hydraulic system with terminal damping makes dynamic adaptation to changing walking speeds possible. Extension and flexion damping are individually adjustable to the mobility of young users.

<b>Reference number</b>	<b>3R65</b>
<b>Material</b>	Aluminum
<b>Proximal connection</b>	Pyramid adapter
<b>Distal connection</b>	Tube clamp Ø 22 mm
<b>Knee flexion angle</b>	145 °
<b>System height</b>	74 mm
<b>proximal system height to alignment reference point</b>	8 mm
<b>distal system height to alignment reference point</b>	67 mm
<b>Weight</b>	315 g
<b>Design</b>	monocentric
<b>Max. body weight</b>	45 kg



 647H180

## Single Components as Replacement Parts

### 4D17 Single Component Pack

<b>Article number</b>	<b>4D17</b>
<b>for</b>	3R65
<b>Consisting of</b>	1 oval head countersunk screw 1 extension stop bumper

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## Modular Hip Joint for Children

### 7E8 Modular Hip Joint



 647G98

<b>Article number</b>	<b>7E8</b>
<b>Material</b>	Aluminum
<b>Proximal connection</b>	Lamination plate
<b>Distal connection</b>	Tube clamp Ø 22 mm
<b>System height</b>	19 mm
<b>Weight</b>	215 g
<b>Design</b>	monocentric
<b>with</b>	individually adjustable extension assist mechanism to control the swing phase, adjustable abduction/adduction and flexion/extension position
<b>Max. body weight</b>	45 kg

## Single Components as Replacement Parts

### 7D3 Single Component Pack

<b>Article number</b>	<b>7D3</b>
<b>for</b>	7E8
<b>Consisting of</b>	1 cylinder pin 1 extension tappet 1 bearing washer 1 extension stop bumper

## Exoskeletal Joint for Children

### Accessories

- Order separately as necessary.

#### 726W11 Tapered Reamer

for reaming out worn knee axis bushings

<b>Article number</b>	<b>726W11</b>
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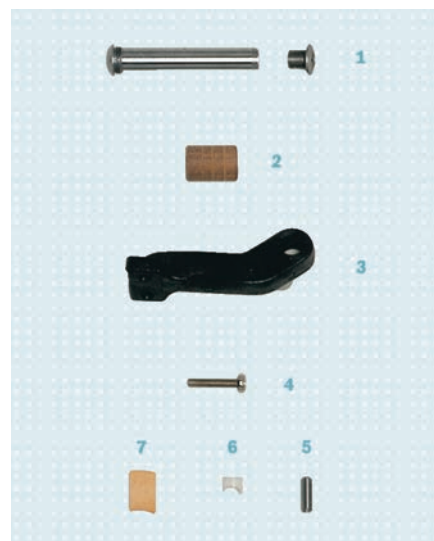
### Single Components as Replacement Parts

#### 3D5 Single Component Pack

<b>Article number</b>	<b>3D5</b>
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<b>for</b>	3P21
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<b>Consisting of</b>	1 knee axis with knee axis screw (stainless steel) (1) 2 knee axis bushings (2) 1 extension stop frame (3) 2 oval head screws (4) 2 set screws, slotted (5) 2 constant friction units (plastic) (6) 1 stop (Pedilan) (7)
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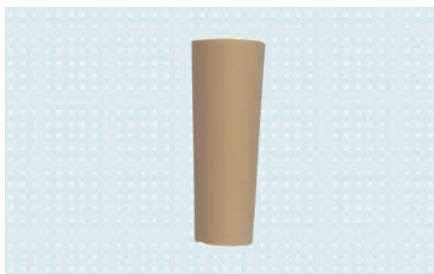
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## Cosmetics for Children



### 6R7 PUR Flexible Foam Cover

The cover for children's modular transtibial prostheses has a 22 mm diameter bore and is pre-shaped. It can be used on either the left or right side.

<b>Article number</b>	<b>6R7</b>
<b>Tube diameter</b>	22 mm
<b>Material</b>	PUR flexible foam
<b>Length</b>	approx. 35 cm
<b>Colour</b>	beige

- The material is flame retardant according to DIN 75200. Complies with MVSS 302 ≤ 100 mm.

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### 3R48 PUR Flexible Foam Cover

The cover for children's modular transfemoral and hip disarticulation prostheses has a 22 mm diameter bore and is pre-shaped. It can be used on either the left or right side.

<b>Article number</b>	<b>3R48</b>
<b>Tube diameter</b>	22 mm
<b>Material</b>	PUR flexible foam
<b>Length</b>	approx. 70 cm
<b>Colour</b>	beige

- The material is flame retardant according to DIN 75200. Complies with MVSS 302 ≤ 100 mm.

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### 99B22 Nylon Cosmetic Stockings

The nylon cosmetic stockings are intended as exterior cosmetic covers for children's modular knee disarticulation, transfemoral and pelvic prostheses.

<b>Article number</b>	<b>99B22=1</b>	<b>99B22=2</b>	<b>99B22=3</b>
<b>Length</b>	approx. 34 cm	approx. 37 cm	approx. 44 cm

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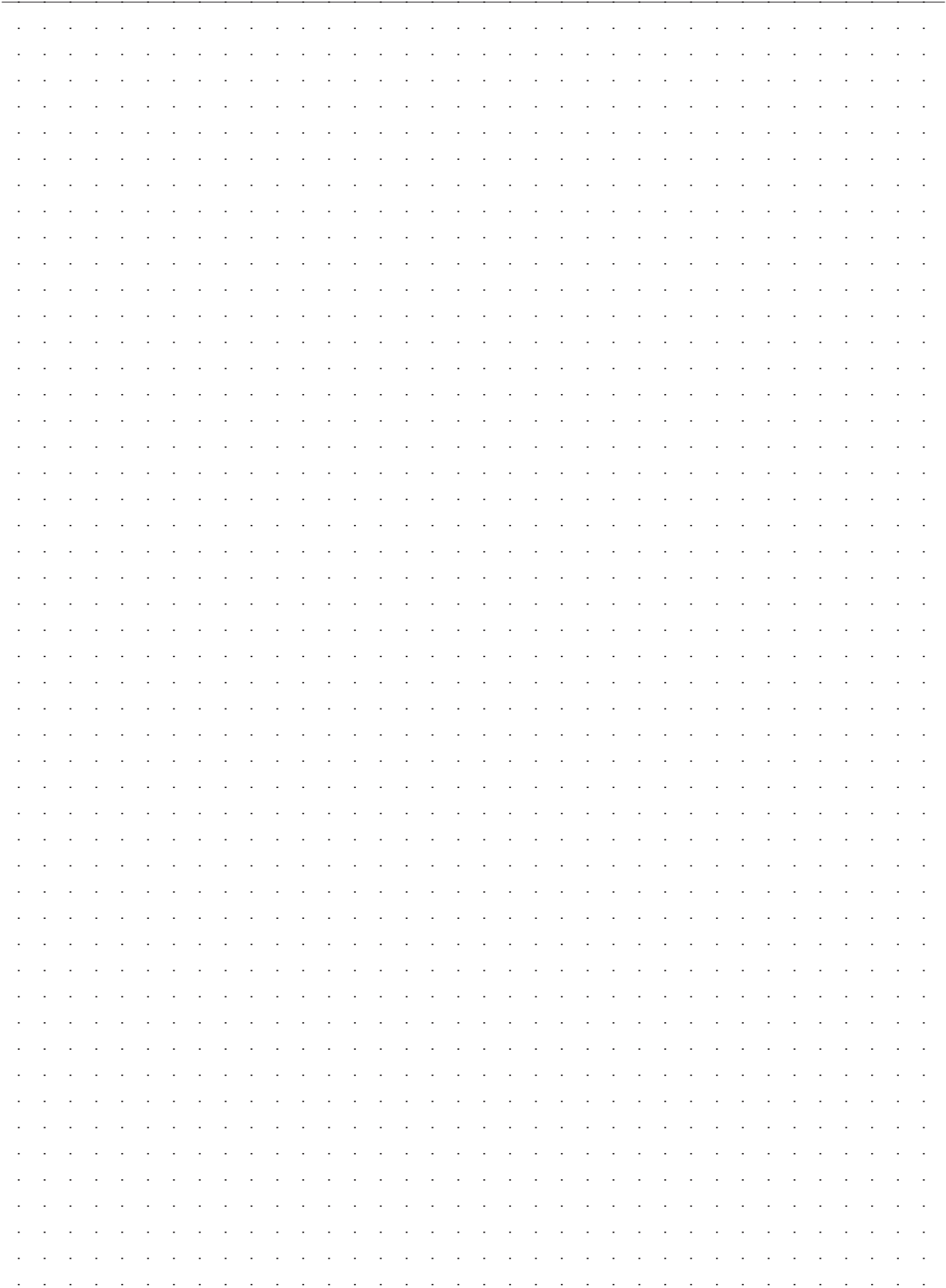
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# Initial and Interim Prostheses

Early fitting of a prosthesis plays a significant role in rehabilitation success. The prompt and correct application of compression to the residual limb, together with getting the amputee back on his or her feet as soon as possible, have a positive impact on the rehabilitation process.

As a temporary measure, bridging the time between the early and definitive fittings with an interim prosthesis is expedient (e.g. with the Halmstad interim transtibial prosthesis). A trial fitting can help determine whether or not the amputee is capable of standing and walking.

Special adapters have proven themselves for the length adjustments and alignment optimisation required leading up to a definitive fitting. Ottobock offers length-adjustable tube adapters and sliding adapters to help you adjust the alignment to the patient's needs during trial walking. Most of them have scales to make reproducible adjustments easier and to simplify documentation. When the definitive prosthesis is fabricated, these adapters are replaced by structural components classified under MOBIS, the Ottobock mobility system.

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## Saarbrucken Early Fitting Prosthesis (SFP)

This structure is a reusable therapy prosthesis that can be used for transtibial amputation and knee disarticulation patients. The weight-bearing element is a laminated frame with distal modular connection. Two pneumatic sleeves compress the residual limb to prevent oedema. An adjustable manometer assists in fitting and accommodates changes in the residual limb by adjusting the compression. The timing of the first fitting, degree of compression, etc., are determined by the amputee's medical team. Components for connection to the Ottobock modular system consist of the following:

 646V22  
647H162




### 6K4 Frame Socket

Article number	6K4=1	6K4=2
Material	Lamination Resin	
Distal connection	Pyramid adapter	
Length	55 cm	43 cm
for	Transtibial residual limb	Knee disarticulation



### 6S2 Pneumatic Transfemoral Cover


Article number	6S2=1	6S2=2
Length	48 cm	40 cm
Circumference top/bottom	64/50 cm	60/52 cm
for	Transtibial residual limb	Knee disarticulation

 Single use only.



### 99B23 End Bearing Cushion

Article number	99B23
∅	165 mm
Length	250 mm

 Single use only.

## 6S1 Pneumatic End Bearing Cover

<b>Article number</b>	<b>6S1</b>
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- Single use only.



## 743D1 Manometer with Inflatable Ball

<b>Article number</b>	<b>743D1</b>
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<b>Consisting of</b>	Expulsion valve and hose connection 616R2=8x1.5 PVC Hose (length 200mm ) 616R8 Hose Adapter
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- Information on Saarbrücken early fitting prosthesis: residual limb socks are listed starting on Page 284.

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## Halmstad Interim Transtibial Prosthesis

This short prosthesis allows early fitting of a transtibial amputee. With a compression bandage, the thermoplastic socket is moulded to the shape of the residual limb. The distal section consists of modular components that are reusable. The timing of the first fitting, training and amount of time it should be used are determined by the amputee medical team.



### 6B3 Kit for Halmstad Interim Prosthesis

Kit for connection to the Ottobock modular system.

Article number	6B3=1	6B3=2
Distal circumference	340 mm	300 mm
Proximal circumference	510 mm	470 mm
Consisting of	Thermoplastic socket 621T21 Reinforcement Strip, 85x390mm 451F2=40 Residual Limb Sock (2 per package) 452K7=5 Sealing Sleeve 99B26=2 Distal Padding – formable Elastic Bandage (2 per package)	

## Accessories for 6B3



647H4

### 5R6 Socket Attachment for Thermoplastic Socket

The 5R6 Socket Attachment is available for three residual limb circumferences. It serves to provide a detachable connection for thermoplastic sockets with the modular system.

6B3 Halmstad Interim Transtibial Prosthesis Kit:

the 5R6 Socket Attachment Block and the distal modular component have to be ordered separately for finishing the prosthesis.



Article number	5R6=1	5R6=2
Material	Aluminium	
for	6B3=1	6B3=2
Residual limb end circumference	~400 mm	~320 mm
System height	4 mm	
Weight	160 g	135 g
Max. body weight	100 kg	

- The 5Y14 Tool is required to create the proper distal shape. It must be ordered separately (see accessories Page 163).

## 2R45=S Tube Adapter, short, length adjustable

The adapter serves as an adjusting element for alignment optimisation and must be removed before completion of the definitive prosthesis.

<b>Article number</b>	<b>2R45=S</b>
<b>Diameter</b>	30 mm
<b>Material</b>	Stainless steel
<b>System height</b>	70 mm
<b>Weight</b>	200 g
<b>Max. body weight</b>	100 kg



- Exclusively for use in initial and/or interim prostheses!

## 2R45=34 Tube Adapter, $\varnothing$ 34 mm, length adjustable

The adapter serves as an adjusting element for alignment optimisation and must be removed before completion of the definitive prosthesis. Thanks to the two scaled light metal tubes that are included, the adapter is length adjustable. The exterior and interior rotation of the foot can also be adjusted.

<b>Article number</b>	<b>2R45=34</b>
<b>Diameter</b>	34 mm
<b>Material</b>	Stainless steel
<b>Min. system height</b>	268 mm
<b>Max. system height</b>	398 mm
<b>Weight (with 2R56=230 Tube)</b>	430 g
<b>Weight (with 2R56=300 Tube)</b>	470 g
<b>Max. body weight</b>	125 kg



647G255

- Exclusively for testing and trial fitting purposes in initial and/or interim prostheses!

## 4R101 Sliding Adapter

The 4R101 Sliding Adapter is installed between the socket attachment block (5R1 or 5R6) and the socket adapter (e.g. 4R51).

Independent repositioning in the frontal and sagittal plane is possible. The displacement can be read on the scale.



<b>Article number</b>	<b>4R101</b>
<b>Material</b>	Aluminum
<b>System height</b>	25 mm
<b>Weight</b>	205 g
<b>Offset in m-l and a-p direction</b>	+/- 11 mm
<b>Max. body weight</b>	100 kg



647H141



- In transtibial prostheses, the 4R101 Sliding Adapter is only suited for initial and/or interim use; in transfemoral prostheses, it is also suited for definitive use.



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### 4R112 Sliding Adapter Set

The sliding adapter set is used to optimise the alignment of modular lower limb prostheses within the scope of initial fittings for a limited time and/or interim fittings. It includes 2 mounting plates as well as an adapter with pyramid adapter and an adapter with pyramid receiver. Adjustments in the frontal and sagittal plane as well as the rotation direction are possible.

647H457



<b>Article number</b>	<b>4R112</b>
<b>Material</b>	Aluminum, Titanium
<b>System height (plate plus both adapters)</b>	32 mm
<b>Weight</b>	zwischen 195 g und max. 510 g
<b>Offset in a-p direction</b>	with mounting plate 1: 48 mm in 12 mm increments with mounting plate 2: 24 mm in 12 mm increments
<b>Offset in m-l direction</b>	with mounting plate 1: 24 mm in 12 mm increments with mounting plate 2: 18 mm in 9 mm increments
<b>Rotation adjustment</b>	+/- 18° in 3° increments
<b>Max. body weight</b>	100 kg



### 4R1 Adjustment Adapter

The 4R1 Adjustment Adapter is an adjustment tool to be used solely for the trial fitting of lower limb prostheses.

It facilitates correct static alignment and permits adjustments on the standing patient under load. The scales permit reproducible adjustments, so that the gait pattern can be optimised quickly during trial walking.



647H451



<b>Article number</b>	<b>4R1</b>
<b>Material</b>	Aluminum
<b>System height</b>	68 mm
<b>Weight</b>	615 g
<b>Offset in a-p direction (max. displacement)</b>	50 mm (corresponds to 25 mm respectively)
<b>Offset in m-l direction (max. displacement)</b>	30 mm (corresponds to 15 mm respectively)
<b>Max. body weight</b>	100 kg

- The use of the 4R1 is recommended in particular with the 743L100=110 or =230 L.A.S.A.R. Posture and the 743A160 Ottobock Transfer Apparatus.



## Single Components as Replacement Parts

Article number	2R45=S	2R45=34	4R101	4R112	4R1
<b>2R56=230</b> Scaled Tube 230 mm		■			
<b>2R56=300</b> Scaled Tube 300 mm		■			
<b>4R112-1</b> Mounting Plate				■	
<b>4R112-2</b> Mounting Plate				■	
<b>4Y19</b> Pressure Plate				▲	
<b>4Y212</b> Clamping Nut			▲		
<b>501S41=M6x12</b> Countersunk Head Screw (Allen screw)				▲	
<b>501S41=M6x16</b> Countersunk Head Screw (Allen screw)					▲
<b>501S44=M6x25</b> Oval Flange Head Screw (Allen screw)			▲		
<b>501S71=M6x25</b> Countersunk Head Screw (Allen screw)				▲	
<b>501T48=M6x25</b> Cap Screw (Allen screw)				▲	
<b>501T61=M6x12</b> Cap Screw				▲	
<b>501Z2=M6x25</b> Cap Screw	▲				
<b>502Z2=M6</b> Hexagon Nut (with conical support)				▲	
<b>506G3=M4x12</b> Set Screw			▲		
<b>506G3=M8x12-V</b> Grub Screw	▲	▲		▲	▲
<b>507U12=6.2x10.3</b> Washer				▲	

▲ Minimum order quantity required

■ Can be ordered individually

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# Waterproof Walking Devices

## **Aqualine – the product line for waterproof walking devices**

Activities within wet areas present a special challenge to both amputees and non-amputees. Both adjust to this situation by behaving accordingly, e.g. by walking at an appropriate speed. An amputee will also depend on the prosthesis being designed to meet the special requirements in these areas (e.g. resistance to water, increased safety in the stance phase), so that the artificial leg can be reliably used.

Ottobock has optimised components of the modular system specifically for the challenges presented by wet areas, and matched them to each another. Aqualine encompasses a comprehensive range of products that include numerous waterproof prosthesis components such as knee joints, feet and various waterproof parts such as valves, shuttle locks and liners. This comprehensive system has been supplemented with the addition of a functional and visually appealing cosmetic solution – the Aqualine Cover.

The components can be combined into a modular bathing prosthesis system, or used to fabricate a bathing prosthesis with an exoskeletal design.

They are suitable for amputees up to a body weight of 150 kg (330 lbs).

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### 3WR95 Aqua-Knee

The Aqua-Knee is water-resistant.

It is small, light and equipped with a miniature hydraulic unit and a lock. Less active and unsure prosthesis users can activate the lock to achieve greater stability during the stance phase.

When used unlocked, dynamic flexion and extension resistances can be adjusted separately from one another for swing phase control appropriate to the particular needs of the amputee.

Flood holes to the right and left on the joint body make it possible for the knee joint to flood when setting foot in water and facilitate cleaning the joint.



≤ 150 kg

<b>Article number</b>	<b>3WR95</b>
<b>Material</b>	Aluminum
<b>Proximal connection</b>	Pyramid adapter
<b>Distal connection</b>	Pyramid adapter
<b>Knee flexion angle</b>	135 °
<b>System height</b>	62 mm
<b>proximal system height to alignment reference point</b>	6 mm
<b>distal system height to alignment reference point</b>	56 mm
<b>Weight</b>	~ 400 g
<b>Max. body weight</b>	150 kg

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## Single Components as Replacement Parts

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### 4G685 Knee Forming Cover

<b>Article number</b>	<b>4G685</b>
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### 501S101=M4x12 Screw to secure the knee forming cover

<b>Article number</b>	<b>501S101=M4x12</b>
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### 4X50 Adjustment Wrench

<b>Article number</b>	<b>4X50</b>
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## 1WR95 Aqua-Foot with Modular Adapter

The 1WR95 Aqua-Foot is water-resistant.

It is equipped with a grid-shaped sole tread and has excellent floor adhesion thanks to its particular material composition and moulding.

It has a natural shape with defined toes and an abducted big toe.

The proximal contact surface in the modular version described here is coated ex factory with sealing resin against water penetration and connected to a high-grade titanium foot adapter. Access to the adapter's screw on the sole of the foot is sealed with a plug.

Order example

**Reference number** = **Side** **Size** - **0** - **Connection** / **Colour**  
**1WR95** = L 26 - 0 - P / 4



≤ 150 kg

<b>Reference number</b>	<b>1WR95</b>				
<b>Heel height</b>	0 mm				
<b>Sides</b>	left (L), right (R)				
<b>Size</b>	24 cm	25 cm	26 cm	27 cm	28 cm
<b>System height</b>	61 mm	64 mm	67 mm	70 mm	72 mm
<b>Weight</b>	~507 g	~556 g	~629 g	~671 g	~704 g
<b>Colour</b>	beige (4)				
<b>Max. body weight</b>	150 kg				



647G634

## 1WR95 Aqua-Foot without Adapter for Exoskeletal Design

The 1WR95 Aqua-Foot without adapter is functionally and cosmetically identical to the foot version for the modular design. It is intended only to be used in waterproof walking aids in exoskeletal design.

Order example

**Reference number** = **Side** **Sizes** - **0** - **Connection** / **Colour**  
**1WR95** = L 26 - 0 - W / 4



≤ 150 kg

<b>Reference number</b>	<b>1WR95</b>				
<b>Heel height</b>	0 mm				
<b>Sides</b>	left (L), right (R)				
<b>Size</b>	24 cm	25 cm	26 cm	27 cm	28 cm
<b>System height</b>	72 mm	75 mm	78 mm	81 mm	83 mm
<b>Weight</b>	~437 g	~486 g	~559 g	~601 g	~634 g
<b>Colour</b>	beige (4)				
<b>Max. body weight</b>	150 kg				



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647G635

## 4WR95=1 Lamination Anchor with Pyramid Receiver and Angled Arm

The 4WR95=1 Lamination Anchor is water-resistant.

It features a rotating pyramid receiver and an angled anchor arm, which is intended for posterior positioning. This allows easy positioning of the adapter in order to achieve optimized prosthesis alignment. The flexion position of the residual residual limb/socket is taken into account. No or only little manual bending is required.



≤ 150 kg

<b>Article number</b>	<b>4WR95=1</b>
<b>Material</b>	INOX stainless steel
<b>System height</b>	44 mm
<b>Weight</b>	165 g
<b>Max. body weight</b>	150 kg

- Only suitable for use in transfemoral prostheses.
- Use the 4X46 Lamination Dummy when laminating. It must be ordered separately (see accessories Page 158).



647G635

## 4WR95=2 Lamination Anchor with Pyramid Adapter

The 4WR95=2 Lamination Anchor is water-resistant.

It has a rotatable pyramid adapter.



≤ 150 kg

<b>Article number</b>	<b>4WR95=2</b>
<b>Material</b>	INOX stainless steel
<b>System height</b>	2 mm
<b>Weight</b>	165 g
<b>Max. body weight</b>	150 kg

- Use the 4X46 Lamination Dummy when laminating. It must be ordered separately (see accessories Page 158).
- If there is not enough space between the 3WR95 Aqua-Knee and socket for the combination 2WR95 Tube Adapter and 4WR95=3 Tube Clamp Adapter, the 4WR95=1 Lamination Anchor with Pyramid Receiver must be used. In this case, the connection to the knee joint is formed directly by the lamination anchor. Gaps which may need to be bridged must be closed by filling the socket with foam.

## 2WR95 Tube Adapter

The 2WR95 Tube Adapter is water-resistant

It has four grooves in the pyramid receiver section, which ensure that the tube is flooded when setting foot in water. The prosthesis is prevented from becoming buoyant as a result.



≤ 150 kg

<b>Article number</b>	<b>2WR95</b>
<b>Diameter</b>	34 mm
<b>Material</b>	Titanium
<b>Min. system height</b>	77 mm
<b>Max. system height</b>	472 mm
<b>Weight</b>	330 g
<b>Max. body weight</b>	150 kg

- According to the Ottobock alignment recommendations, bench alignment of the waterproof walking device with the 1WR95 Aqua-Foot on 0 mm heel height is usually only possible with the aid of the angled tube adapter. Therefore use the 2WR95=1 Angled Tube Adapter. If needed, the 2WR95 Tube Adapter which is not angled may be used for TF amputees in the transfemoral area.



647G766

## 2WR95=1 Tube Adapter, angled

The 2WR95=1 Tube Adapter is water-resistant.

It is the same as the 2WR95 Tube Adapter, but is inclined by 6° for alignment optimisation.



≤ 150 kg

<b>Article number</b>	<b>2WR95=1</b>
<b>Diameter</b>	34 mm
<b>Material</b>	Titanium
<b>Min. system height</b>	78 mm
<b>Max. system height</b>	473 mm
<b>Weight</b>	330 g
<b>Max. body weight</b>	150 kg

- According to the Ottobock alignment recommendations, bench alignment of the waterproof walking aid with the 1WR95 Aqua-Foot on 0 mm heel height is usually only possible with the aid of the angled tube adapter. Therefore use the 2WR95=1 Angled Tube Adapter. If needed, the 2WR95 Tube Adapter which is not angled may be used for TF amputees in the transfemoral area.



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## 4WR95=3 Tube Clamp Adapter

The tube clamp adapter is water-resistant.

It has four grooves in the pyramid receiver section, which ensure that the adapter is flooded when setting foot in water. The prosthesis is prevented from becoming buoyant as a result.



≤ 150 kg

<b>Article number</b>	<b>4WR95=3</b>
<b>Diameter</b>	34 mm
<b>Material</b>	Titanium
<b>System height</b>	33 mm
<b>Weight</b>	105 g
<b>Max. body weight</b>	150 kg

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## Single Components as Replacement Parts

### 4D27 Single Component Pack

Single component pack for 2WR95, 2WR95=1, 4WR95=1, 4WR95=2, 4WR95=3

<b>Article number</b>	<b>4D27</b>
<b>Consisting of</b>	<ul style="list-style-type: none"> <li>4 set screws M8x10, protected against corrosion</li> <li>8 set screws M8x12, protected against corrosion</li> <li>8 set screws M8x14, protected against corrosion</li> <li>4 set screws M8x16, protected against corrosion</li> <li>2 cap screws M5x22, protected against corrosion</li> <li>2 rounded washers</li> <li>1 cap screw M5x30, protected against corrosion</li> <li>1 plastic ring</li> <li>3 cm shrink tubing</li> </ul>

- The set screws/screws of the adapter for waterproof walking aids are protected against corrosion and may be replaced only by set screws/screws from the 4D27 Single Component Pack.

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647H483

## 6A30=20 Shuttle Lock

The lightweight 6A30=20 Plastic Shuttle Lock is water-resistant.

The integrated ratchet unit makes for easy unlocking even under tension. Locking is continuously variable so that "clicking noises" do not occur when walking. The Shuttle Lock has no weight limit and is embedded directly in the socket. It is used with liners having a distal connection (for the waterproof walking devices with 6Y40 SIL Liner without textile cover)

<b>Article number</b>	<b>6A30=20</b>
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## 6Y40 Basic SIL Liner

The 6Y40 Silicone Liner is a durable and thin-walled liner with a distal connection and is suitable for waterproof walking devices. Longitudinal stretching and pistoning are minimised thanks to the integrated distal matrix (10 cm). This protects the sensitive residual limb ends. A donning spray (640F18) can be used. The 6Y40 Basic SIL Liner is suitable for users with a low to moderate activity level and good soft tissue coverage on their residual limb.

Order example

<b>Reference number</b>	<b>=</b>	<b>Size</b>
6Y40	=	280

<b>Reference number</b>	<b>6Y40</b>
<b>Connection</b>	with distal connection
<b>Wall thicknesses</b>	from approx. 4.5 mm distally, tapering to 2.5 mm proximally
<b>Size (distal circumference)</b>	120 mm, 140 mm, 160 mm, 180 mm, 200 mm, 210 mm, 220 mm, 235 mm, 250 mm, 265 mm, 280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm, 420 mm, 450 mm

- ▶ Use in waterproof walking devices only in combination with the 6A30=20 Shuttle Lock
- ▶ **6Y40 Liner special order only.**


## 21Y14 PushValve

The 21Y14 PushValve is water-resistant.

Thanks to its threadless design, rotating or screwing movements are not required. Handling is thus made substantially easier for the user and a secure hold in the socket is produced as a result. An audible signal indicates that the valve is safely positioned.

<b>Reference number</b>	<b>21Y14</b>
<b>Area of application</b>	Transfemoral amputation



 647G380

SIL



 647H530



## Accessories

### 6Y13=L1 Pin, long

<b>Article number</b>	<b>6Y13=L1</b>
<b>Length</b>	68,7 mm

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# Fitness Protheses

Through its commitment to the Paralympic Games, Ottobock has long been dedicated to sport. The technology from the custom prosthesis for competitive sport has now successfully been transferred to mass-produced prosthetic components for amateur fitness.

High demands are placed on a fitness prosthesis – it has to be sturdy, yet also lightweight and compact. The knee joint in particular needs to be able to withstand high loads because the forces acting on a prosthesis are greater during running than during walking.

The Ottobock fitness prosthesis enables you to exercise your potential fully and vary it as needed. For jogging or sprinting.

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## Fitness Prosthetic System

There are high demands on a fitness prosthesis – it has to be sturdy, yet also lightweight and compact. The knee joint in particular needs to be able to withstand high loads, because the forces acting on a prosthesis when running are greater than when walking. The familiar, patented principle of rotary hydraulics from the 3R80 prosthetic knee joint has been modified for use in the 3S80 Fitness. Swing phase control in the 3S80 Fitness is optimised for running, allowing you to achieve high stride rates.

The 3S80 Fitness – with optimum swing phase control for running. In the flexion direction, the prosthetic lower leg swings through freely up to a flexion angle of about 60°. Then progressive hydraulic damping sets in and brakes the prosthetic lower leg sharply at about 90°. Even at high stride rates, a harmonious extension stop is ensured by extension damping throughout the entire extension movement, which increases significantly shortly before reaching full extension. Flexion and extension damping are individually and independently adjustable.

Together with the 1E90 Sprinter carbon foot, the 3S80 Fitness forms a strong, dynamic combination. The foot provides very high energy return and is available in six stiffness versions depending on body weight and running distance. The newly developed sport foot adapter is the perfect connection to the knee joint. For alignment correction, the adapter has a corresponding adjustment option in the a/p-direction. A system with specifically coordinated components: the new sports prosthesis from Ottobock.

## 3S80 Fitness

The 3S80 Fitness features optimal swing phase control for running. Even at high stride rates, smooth extension is ensured by extension damping throughout the entire extension movement, increasing gently just before reaching the end position. Flexion and extension damping can be adjusted separately. The larger flexion angle for jogging and sprinting is precisely controlled by flexion damping.



<b>Article number</b>	<b>3S80</b>
<b>System height</b>	48 mm
<b>Flexion angle</b>	135 °
<b>Weight</b>	682 g
<b>Max. body weight</b>	100 kg



## 4R206 TF Test Fitness Foot Adapter

The 4R206 TF Test Fitness Foot Adapter in combination with a suitable socket adapter (e.g. 4R77 or 4R51) joins the 1E90 Sprinter prosthetic fitness foot to a prosthetic sport knee joint (e.g. 3S80). It is intended exclusively for trial fitting and enables selection of a suitable 1E90 Sprinter model. The foot is inserted into the adapter and can be adjusted vertically. A clamping mechanism allows the adapter to be secured and released at various heights, thereby helping to establish the suitable height and length of the foot and subsequently shorten it accordingly. The horizontal offset of the socket adapter permits anterior or posterior placement of the foot if required. Three different positions are possible.



<b>Article number</b>	<b>4R206</b>
<b>Material</b>	Aluminium
<b>System height</b>	2 mm
<b>Weight</b>	580 g
<b>Max. body weight</b>	100 kg



 647G839 Instructions for Use


## 4R204 TF Definitive Fitness Foot Adapter

Once the right 1E90 Sprinter model has been selected and shortened to the definitive length and height, the 4R206 TF Test Fitness Foot Adapter in the prosthesis is replaced by the 4R204 TF Definitive Fitness Foot Adapter.



<b>Article number</b>	<b>4R204</b>
<b>Material</b>	Aluminium
<b>System height</b>	2 mm
<b>Weight</b>	440 g
<b>Max. body weight</b>	100 kg



 647G839 Instructions for Use

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### 1E90 Sprinter

The 3S80 Fitness forms a strong, dynamic combination with the 1E90 Sprinter carbon spring foot. The foot provides very high energy return and is available in six stiffness versions to accommodate various body weights. The newly developed fitness foot adapter is the perfect connection to the knee joint. For alignment correction, the adapter has a corresponding adjustment option in the A/P direction. A system with specifically coordinated components: the new fitness prosthesis from Ottobock.



<b>Reference number</b>	<b>1E90</b>
<b>Scope of Delivery</b>	Carbon spring
<b>Max. body weight</b>	125 kg

• The 2R177=18 and 2R177=5 adapters can continue to be used as spare parts.



### 2Z500 Universal sole with running shoe tread

Two sole designs provide the necessary grip on different types of surfaces. The universal sole with a running shoe tread is suitable for running on a variety of surfaces, whereas the spiked sole can be used for fast sprints, especially on an all-weather track.

<b>Article number</b>	<b>2Z500</b>
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### 2Z501 Spike sole

Two sole designs provide the necessary grip on different types of surfaces. The universal sole with a running shoe tread is suitable for running on a variety of surfaces, whereas the spiked sole can be used for fast sprints, especially on an all-weather track.

<b>Article number</b>	<b>2Z501</b>
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### 4G791=KIT Accessory Kit

<b>Article number</b>	<b>4G791=KIT</b>
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## 1E90 Sprinter

The 1E90 Sprinter has proven itself in international and Paralympic competition as the foot of choice for outstanding performance characteristics. It is distinguished by its low weight. The spring contour ensures a high driving force and a low resistance. The foot is custom-made.



<b>Reference number</b>	<b>1E90</b>
<b>Scope of Delivery</b>	Carbon spring
<b>Max. body weight</b>	125 kg

- Please order directly through Customer Service



## 4R420 Posterior Connection Plate (set)

for direct lamination in transtibial fittings

<b>Article number</b>	<b>4R420</b>
<b>Max. body weight</b>	Unlimited



## 2R176=T T-Adapter

for direct lamination

<b>Article number</b>	<b>2R176=T</b>
<b>Max. body weight</b>	Unlimited



- Similar to the new TF fitness foot adapters (4R204, 4R206), corresponding fitness foot adapters (4R208, 4R210) are from the 3rd quarter of 2013.

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### 1C2 C-Sprint

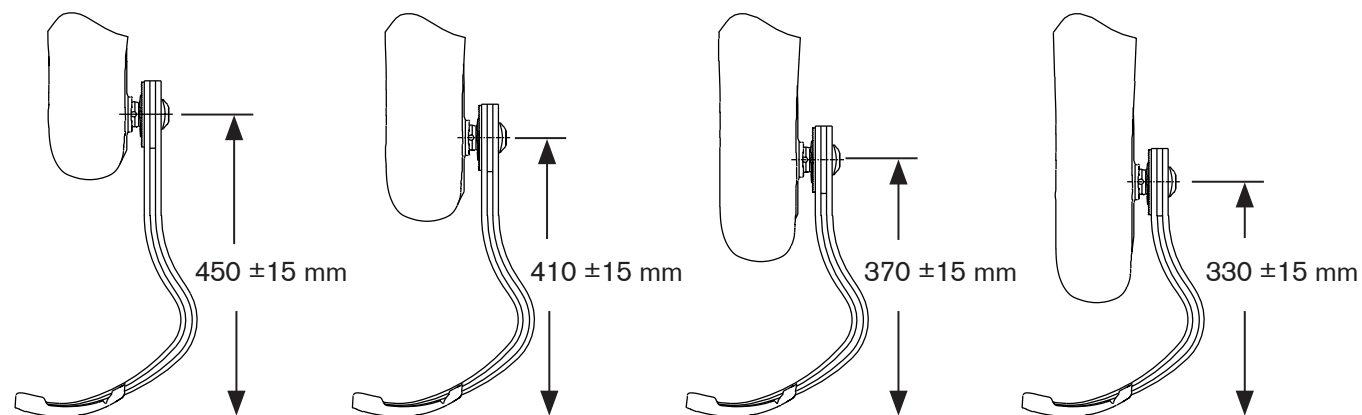
With the 1C2 C-Sprint from Ottobock, a unique transtibial fitness prosthesis which has already proven itself in international competition has been developed. A slim dual spring ensures the required energy storage and aerodynamics. Contact with the all-weather track is assured by a rollover contour with threaded inserts for spikes. A specially developed 2R111 Adapter Plate and the 4R51 Rotating Socket Adapter connect it to the socket. Optimum positioning of the carbon spring is achieved through the height and continuous angle adjustment.

The foot is custom-made.



<b>Reference number</b>	<b>1C2</b>
<b>Scope of Delivery</b>	Carbon Dual Spring with Adapter 4R51 Socket Adapter with Rotation Adjustment 2R111 Adapter Plate 2Z285 Rollover Contour
<b>Max. body weight</b>	100 kg

- Please order directly through Customer Service
- **1C2 C-Sprint special order only**



### Single Components as Replacement Parts

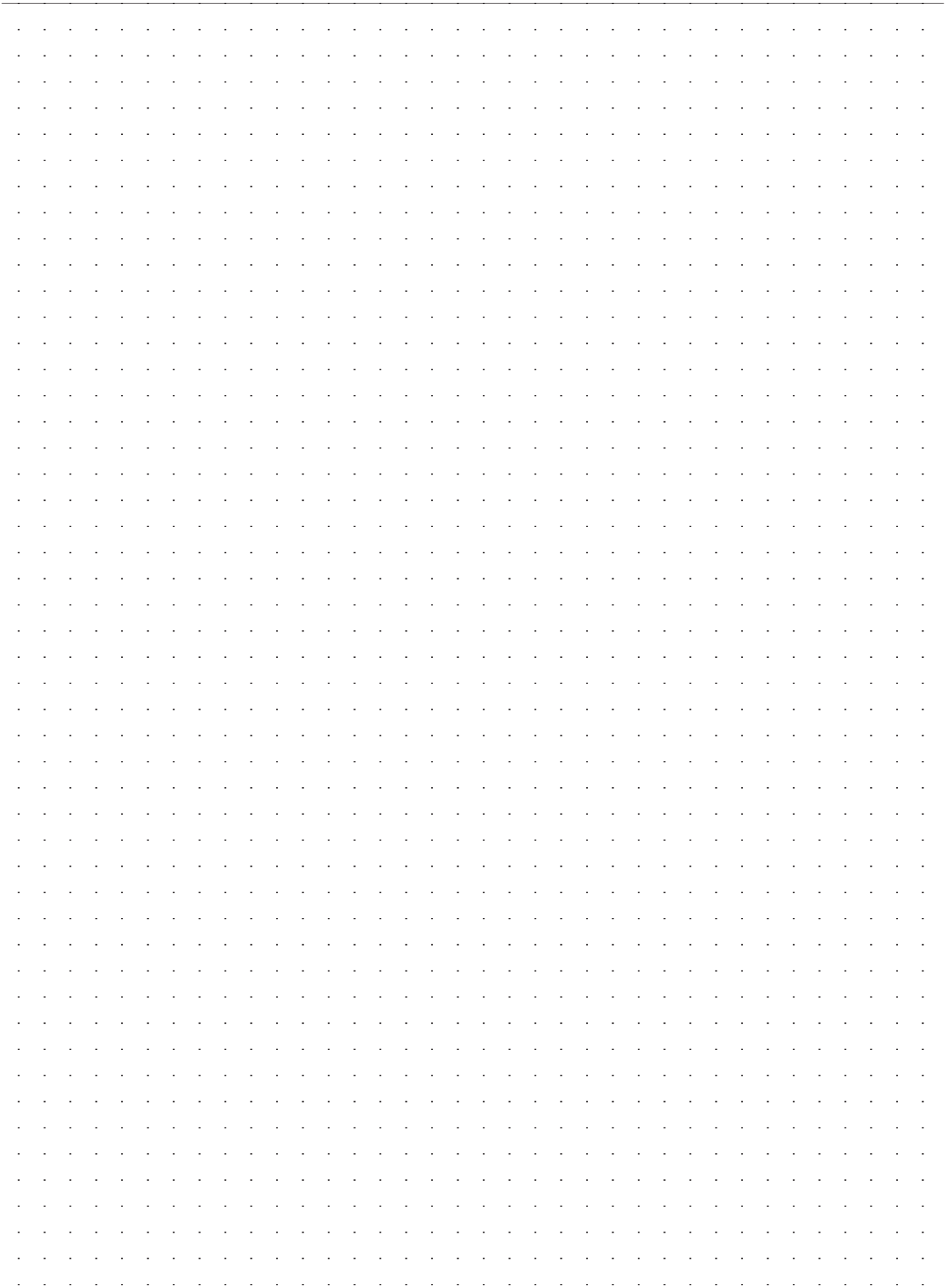
#### 2R111 Adapter Plate

<b>Article number</b>	<b>2R111</b>
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#### 2Z285 Rollover Contour with Spikes

<b>Article number</b>	<b>2Z285</b>
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# Modular Prosthetic Feet

Since the prosthetic foot greatly influences the biomechanical properties of a prosthesis, particular care should be taken in choosing it.

Ottobock prosthetic feet are developed using numerical and mechanical simulation, and are optimised for the respective mobility grade. Company know-how in the field of materials technology with high-performance synthetic materials, titanium and carbon ensures defined characteristics and high durability. This results in prosthetic feet that even exceed the applicable strength test standards.

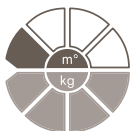
Absolute suitability for the patient is just as much understood as easy handling in the clinic.

For the functional properties of modular prosthetic feet, mobility and flexibility in the sagittal, frontal and horizontal planes are meaningful qualities. Function, cosmetics, weight, durability, etc. are important criteria for the quality of the fitting. The structure of the foot component and the design of the joint are responsible for the function and biomechanical properties such as dorsiflexion resistance during standing, behaviour at heel strike, rollover and toe-off.

Most Ottobock prosthetic feet are supplied as fully assembled foot structures with a modular connector. The corresponding adapter of single axis feet, dynamic feet, SACH feet and pylon feet is made of titanium, steel or aluminium and usually delivered as a separate component.

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## Mobility grade 1



### 1G6 Pedilan Light Foot with toes

The lightweight, jointless foot for geriatrics

### 1G9 Pedilan Single Axis Foot, light

The lightweight geriatric foot with mono-axial joint for transfemoral amputees

### 1H... Single Axis Foot

The foot with mono-axial joint for transfemoral amputees

### 1S... SACH Foot

The jointless foot

### 1D10/1D11 Dynamic Foot

The jointless foot with optimised rollover characteristics

### 1M10 Adjust

The multi-axial foot with adjustable heel characteristics

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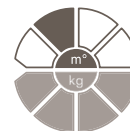
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## Mobility grade 2



### 1S... SACH Foot

The jointless foot

### 1D10/1D11 Dynamic Foot

The jointless foot with optimised rollover characteristics

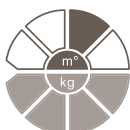
### 1M10 Adjust

The multi-axial foot with adjustable heel characteristics

### 1A30 Greissinger plus

The foot with multi-axial joint

## Mobility grade 3



### 1A30 Greissinger plus

The foot with multi-axial joint

### 1D35 Dynamic Motion

The foot for all occasions

### 1C30 Trias+

The lightweight carbon foot with comfortable rollover characteristics

### 1C40 C-Walk

The comfortable carbon foot with optimised biomechanics

### 1E56 Axtion

The dynamic foot with low structural height

### 1C60 Triton

Proven triangular technology

### 1C61 Triton Vertical Shock

Enhanced shock absorption and torsion capability

### 1C62 Triton Harmony

The compact foot system with integrated vacuum pump

### 1C63 Triton Low Profile

Triangular technology for low structural heights

### 1C64 Triton Heavy Duty

Robust and water-resistant

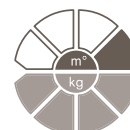
### 1E58 Axtion DP

The comfortable pylon foot for dynamic loads

### 1E50/51 Advantage DP2

The dynamic, low-weight pylon foot

## Mobility grade 4



### 1C40 C-Walk

The comfortable carbon foot with optimised biomechanics

### 1E56 Axtion

The dynamic foot with low structural height

### 1C60 Triton

Proven triangular technology

### 1C61 Triton Vertical Shock

Enhanced shock absorption and torsion capability

### 1C62 Triton Harmony

The compact foot system with integrated vacuum pump

### 1C63 Triton Low Profile

Triangular technology for low structural heights

### 1C64 Triton Heavy Duty

Robust and water-resistant

### 1E58 Axtion DP

The comfortable pylon foot for dynamic loads

### 1E50/51 Advantage DP2

The dynamic, low-weight pylon foot

## Feet for special requirements

### Feet for a limited structural height



#### 1E80-1E82 Chopart

The footplate for partial foot amputations and Chopart/Pirogoff/Syme amputations



#### 1C20 ProSymes

The foot with integrated, adjustable socket adapter for Syme amputations and some Pirogoff amputations



#### 1E57 Lo Rider

The foot with modular connector for Syme amputations and in case of limited structural height

### Foot for unusual foot sizes and a rare patient weight



#### 1E61 Springlite II

### Fitness Feet

#### 1E90 Sprinter

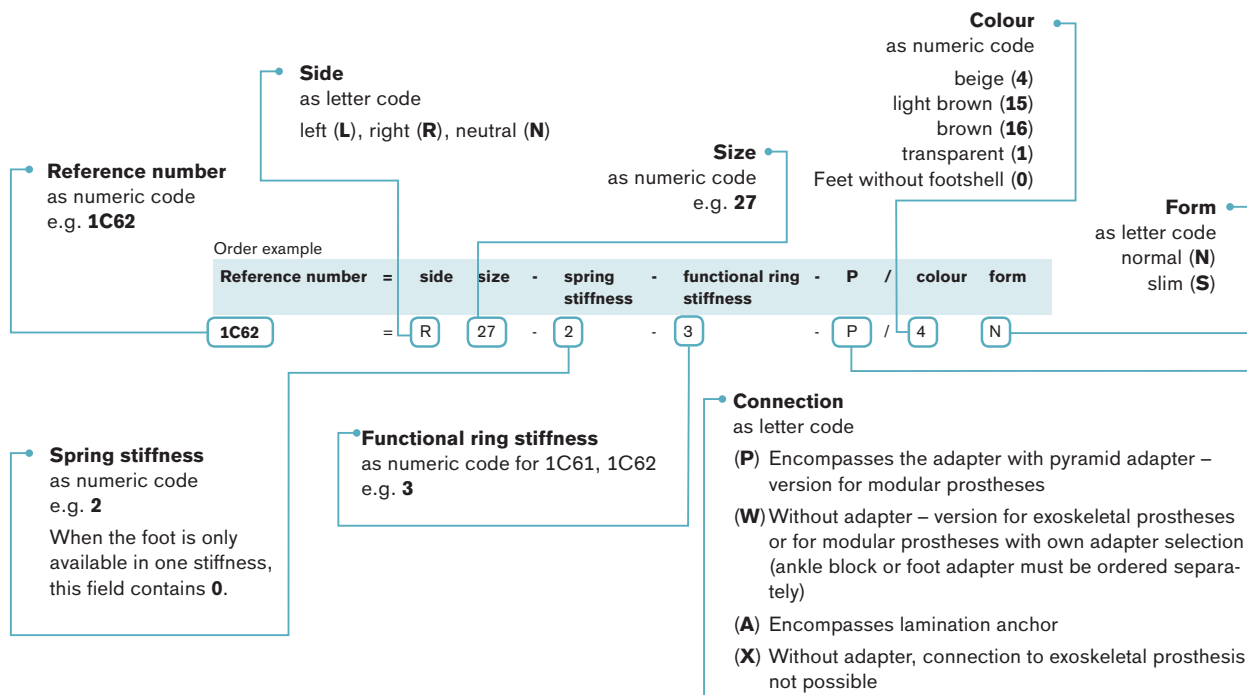
The fitness foot for transfemoral and transtibial amputees

#### 1C2 C-Sprint

The fitness foot for transtibial amputees

## Article number structure for Ottobock feet

Ottobock continuously works on developing new products and on improving existing ones to better suit your needs. For clear ordering of the different versions of prosthetic feet, the order number structure has been expanded. This new structure will apply to all new feet. In the case of prosthetic feet which are offered in different colours or versions, the additional codes specify these characteristics.



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### 1G6 Pedilan Light Foot with Toes

The 1G6 Pedilan Light Foot was designed especially for patients who are less active. The special features of the foot include its low weight, safe heel strike and a smooth, natural shape that includes a separately sculpted, abducted big toe. It is appropriate for all amputation levels in the treatment of geriatric patients.

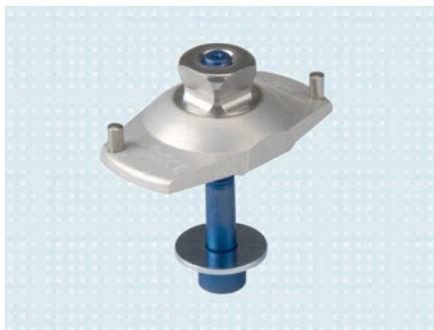
Order example

Reference number	=	Side	Size
<b>1G6</b>	=	L	26



Reference number	1G6				
<b>Mobility grade</b>	1				
<b>Heel height</b>	10 +/- 5 mm				
<b>Side</b>	Left (L), Right (R)				
<b>Size</b>	23 cm	24 cm	25 cm	26 cm	27 cm
<b>System height with 2R54/2R31</b>	58 mm	61 mm	64 mm	67 mm	70 mm
<b>Weight (without adapter)</b>	~ 250 g	~ 265 g	~ 285 g	~ 330 g	~ 350 g
<b>Colour</b>	beige				
<b>Max. body weight</b>	75 kg				

### Accessories



**W** 647G5

### 2R54 Foot Adapter with Screw Connection



Article number	2R54=M8	2R31=M8
<b>Material</b>	Aluminum	Titanium
<b>for</b>	1D11 and 1G6, size 22 – 25	
<b>Screw connection</b>	2D7=M8	
<b>Weight</b>	70 g	65 g
<b>Max. body weight</b>	100 kg	

**o** System height already taken into consideration with the foot.



### 2R14 Connection Plate

glued to the cosmetic foam cover and snapped onto the adapter

Article number	2R14
<b>for</b>	2R54 2R31

## Single Components as Replacement Parts

### 2D7=M8 2D7 Screw Connection

<b>Article number</b>	<b>2D7=M8</b>
<b>for</b>	2R54=M8 2R31=M8
<b>Scope of Delivery</b>	1 cap screw (titanium) 1 washer

### 1G9 Pedilan Single Axis Foot, light

The light 1G9 Pedilan Single Axis Foot is an alternative to the 1G6 Light Cosmetic Foot. It is recommendable in cases when dampened plantar flexion is required, for example in combination with the 3R41 Modular Light Knee Joint. The foot is especially suitable for geriatric transfemoral fittings. For the lightweight cosmetic foam cover, the 2R63 Foam Connection Cap is included.

Order example

<b>Reference number</b>	<b>=</b>	<b>Side</b>	<b>Size</b>
<b>1G9</b>	<b>=</b>	<b>L</b>	<b>26</b>



<b>Reference number</b>	<b>1G9</b>				
<b>Mobility grade</b>	1				
<b>Heel height</b>	10 +/- 5 mm				
<b>Side</b>	Left (L), Right (R)				
<b>Size</b>	23 cm	24 cm	25 cm	26 cm	27 cm
<b>System height with 2R51</b>	63 mm	64 mm	65 mm	67 mm	69 mm
<b>Weight (without adapter)</b>	~ 270 g	~ 280 g	~ 295 g	~ 315 g	~ 325 g
<b>Colour</b>	beige				
<b>Max. body weight</b>	75 kg				



647H45

## Accessories

### 2R51 Single Axis Foot Adapter with Screw Connection

with rubber bumper and lower bearing shell

647H12



<b>Article number</b>	<b>2R51=22-27</b>
<b>Material</b>	Aluminum
<b>Size</b>	22 - 27 cm
<b>Weight</b>	230 g
<b>Max. body weight</b>	100 kg

- System height already taken into consideration with the foot.
- Dorsal Stop Set required with 2R51



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## Single Components as Replacement Parts

### 2D5 Single Component Pack for Single Axis Feet

<b>Article number</b>	<b>2D5</b>
<b>Consisting of</b>	1 lower bearing shell, 1 rubber bumper (hard), 1 rubber bumper (medium), 1 rubber bumper (soft), 1 shell, 1 washer

### 2R63 Foam Connecting Cap

<b>Reference number</b>	<b>2R63</b>
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## Single Axis Foot with Toes

The Single Axis Feet 1H38 and 1H40 have different heel heights. Both feet have a natural shape, smooth surface and shaped toes. Single axis feet allow the patient to achieve a secure stance quickly. They are especially suitable for transfemoral fittings.



Order example

**Reference number = Side Size**

**1H38 = L 26**

🔴 For the 1H38 in size 21 cm, please use the available accessories for size 22 cm.

Reference number	1H38							
Mobility grade	1							
Heel height	10 +/- 5 mm							
Side	Left (L), Right (R)							
Size	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm
System height with 2R33/2R10	42 mm	44 mm	45 mm	45 mm	46 mm	47 mm	48 mm	49 mm
System height with 2R51	46 mm	48 mm	49 mm	49 mm	50 mm	51 mm	52 mm	53 mm
Weight (without adapter)	~ 255 g	~ 275 g	~ 305 g	~ 335 g	~ 360 g	~ 365 g	~ 420 g	~ 435 g
Colour	beige							
Max. body weight	100 kg							

Reference number	1H40							
Mobility grade	1							
Heel height	25 +/- 5 mm							
Side	Left (L), Right (R)							
Size	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm
System height with 2R33/2R10	44 mm	45 mm	45 mm	46 mm	47 mm	48 mm	49 mm	53 mm
System height with 2R51	48 mm	49 mm	49 mm	50 mm	51 mm	52 mm	53 mm	57 mm
Weight (without adapter)	~ 295 g	~ 305 g	~ 320 g	~ 370 g	~ 400 g	~ 440 g	~ 470 g	~ 530 g
Colour	beige							
Max. body weight	100 kg							

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## Accessories



647H12

with rubber bumper and lower bearing shell



Article number	2R33= 22-25	2R33= 26-30	2R51= 22-27	2R51= 26-27	2R10= 22-25	2R10= 26-30
<b>Material</b>	Titanium		Aluminum		Steel	
<b>Size</b>	22 - 25 cm	26 - 30 cm	22 - 27 cm	26 - 27 cm	22 - 25 cm	26 - 30 cm
<b>Weight</b>	200 g	210 g	230 g	235 g	325 g	340 g
<b>Max. body weight</b>	100 kg					

- System height already taken into consideration with the foot.
- Dorsal Stop Set required with 2R51



### 2S88 Dorsal Stop Set

in combination with single axis foot adapter

Article number	2S88=22-23	2S88=24-25	2S88=26-27
<b>Material</b>	Pedilan		
<b>Size</b>	22 - 23 cm	24 - 25 cm	26 - 27 cm
<b>Scope of Delivery</b>	2-piece, 1 soft and 1 hard stop each		



### 2R22 Connection Cap

bonded to the foam cover then pressed onto the apron of the foot

Order example

**Reference number = Size**

**2R22 = 23**

Reference number	2R22
<b>Size</b>	22 cm, 23 cm, 24 cm, 25 cm, 26 cm, 27 cm, 28 cm, 29 cm

## Single Components as Replacement Parts

### 2D5 Single Component Pack for Single Axis Feet

Article number	2D5
<b>Consisting of</b>	1 lower bearing shell, 1 rubber bumper (hard), 1 rubber bumper (medium), 1 rubber bumper (soft), 1 shell, 1 washer

## Single Axis Foot without Toes, 2-piece

The 1H32 Single Axis Foot and 1H34 Single Axis Foot feature a two-part design, and have different heel heights and foot shapes. The 1H32 has a standard foot shape while the 1H34 is slimmer.

In combination with the single axis joint, single axis feet allow the amputee to achieve a secure stance quickly. They are especially suitable for transfemoral fittings.

Order example

**Reference number = Side Size**

**1H32 = L 26**



<b>Reference number</b>	<b>1H32</b>							
<b>Mobility grade</b>	1							
<b>Heel height</b>	25 +/- 5 mm							
<b>Side</b>	Left (L), Right (R)							
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm
<b>System height with 2R33/2R10</b>	44 mm	45 mm		46 mm	47 mm	48 mm	49 mm	53 mm
<b>System height with 2R51</b>	48 mm	49 mm		50 mm	51 mm	52 mm	53 mm	57 mm
<b>Weight (without adapter)</b>	~ 255 g		~ 325 g	~ 360 g	~ 400 g	~ 410 g	~ 440 g	~ 470 g
<b>Colour</b>	beige/white							
<b>Max. body weight</b>	100 kg							
<b>as</b>	Single component of the 1H31 Single Axis Foot							

<b>Reference number</b>	<b>1H34</b>					
<b>Mobility grade</b>	1					
<b>Heel height</b>	35 +/- 5 mm					
<b>Side</b>	Left (L), Right (R)					
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm
<b>System height with 2R33/2R10</b>	44 mm	45 mm		46 mm	47 mm	48 mm
<b>System height with 2R51</b>	48 mm	49 mm		50 mm	51 mm	52 mm
<b>Weight (without adapter)</b>	~ 300 g	~ 315 g	~ 335 g	~ 355 g	~ 380 g	~ 420 g
<b>Colour</b>	beige/white					
<b>Max. body weight</b>	100 kg					
<b>as</b>	Single component of the 1H31 Single Axis Foot					

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## Single Components as Replacement Parts

### Pedilan Sole

Sole contour flat convex

Order example

Reference number	=	Side	Size
<b>2Z67</b>	=	L	23

<b>Reference number</b>	<b>2Z67</b>
<b>Side</b>	Left (L), Right (R)
<b>Size</b>	23 cm, 24 cm, 25 cm, 26 cm, 27 cm, 28 cm, 29 cm
<b>for</b>	1H32 Single Axis Foot

<b>Reference number</b>	<b>2Z64</b>
<b>Side</b>	Left (L), Right (R)
<b>Size</b>	23 cm, 24 cm, 25 cm, 26 cm, 27 cm, 28 cm, 29 cm
<b>for</b>	1H34 Single Axis Foot

## Accessories

with rubber bumper and lower bearing shell



647H12

Article number	2R33= 22-25	2R33= 26-30	2R51= 22-27	2R51= 26-27	2R10= 22-25	2R10= 26-30
<b>Material</b>	Titanium		Aluminum		Steel	
<b>Size</b>	22 - 25 cm	26 - 30 cm	22 - 27 cm	26 - 27 cm	22 - 25 cm	26 - 30 cm
<b>Weight</b>	200 g	210 g	230 g	235 g	325 g	340 g
<b>Max. body weight</b>	100 kg					

- System height already taken into consideration with the foot.
- Dorsal Stop Set required with 2R51

### 2S88 Dorsal Stop Set

in combination with single axis foot adapter

Article number	2S88=22-23	2S88=24-25	2S88=26-27
<b>Material</b>	Pedilan		
<b>Size</b>	22 - 23 cm	24 - 25 cm	26 - 27 cm
<b>Scope of Delivery</b>	2-piece, 1 soft and 1 hard stop each		



### 2R22 Connection Cap

bonded to the foam cover then pressed onto the apron of the foot

Order example

Reference number	=	Size
2R22	=	23
Reference number	2R22	
Size	22 cm, 23 cm, 24 cm, 25 cm, 26 cm, 27 cm, 28 cm, 29 cm	



## Single Components as Replacement Parts

### 2D5 Single Component Pack for Single Axis Feet

Article number	2D5
<b>Consisting of</b>	1 lower bearing shell, 1 rubber bumper (hard), 1 rubber bumper (medium), 1 rubber bumper (soft), 1 shell, 1 washer

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### SACH+ Foot

The 1S101, 1S102 and 1S103 SACH+ (Solid Ankle Cushion Heel) prosthetic feet have different heel heights and foot shapes. They feature a natural shape with a smooth surface, shaped toes and a sandal toe.

The functional properties are achieved through the combination of a fibreglass-reinforced plastic core and functional foam. The feet are designed for use in modular prostheses and exoskeletal properties.

Order example

<b>Reference number</b>	<b>=</b>	<b>Side</b>	<b>Size</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>W</b>	<b>/</b>	<b>4</b>
<b>1S101</b>	<b>=</b>	<b>L</b>	<b>22</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>W</b>	<b>/</b>	<b>4</b>

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Max. 80 kg (176 lbs) 21-23 cm  
Max. 100 kg (220 lbs) 24-25 cm  
Max. 125 kg (275 lbs) 26-30 cm

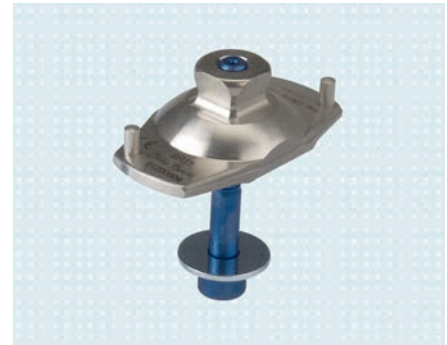
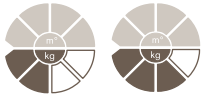
<b>Reference number</b>	<b>1S101</b>									
<b>Mobility grade</b>	1 + 2									
<b>Heel height</b>	10 +/-5 mm									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	
<b>System height</b>	55 mm	58 mm	61 mm	64 mm	67 mm	70 mm	72 mm	74 mm	76 mm	
<b>Weight (without adapter)</b>	~ 385 g	~ 415 g	~ 475 g	~ 515 g	~ 590 g	~ 625 g	~ 680 g	~ 745 g	~ 805 g	
<b>Colour</b>	light brown (15), beige (4)									
<b>Shape</b>	normal									
<b>Max. body weight</b>	80 kg			100 kg			125 kg			

<b>Reference number</b>	<b>1S102</b>									
<b>Mobility grade</b>	1 + 2									
<b>Heel height</b>	10 +/-5 mm									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	
<b>System height</b>	52 mm	55 mm	58 mm	61 mm	64 mm	67 mm	70 mm	72 mm	74 mm	
<b>Weight (without adapter)</b>	~ 315 g	~ 355 g	~ 395 g	~ 445 g	~ 490 g	~ 560 g	~ 615 g	~ 670 g	~ 725 g	
<b>Colour</b>	beige (4)									
<b>Shape</b>	narrow									
<b>Max. body weight</b>	80 kg			100 kg			125 kg			

<b>Reference number</b>	<b>1S103</b>									
<b>Mobility grade</b>	1 + 2									
<b>Heel height</b>	20 +/-5 mm									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm		
<b>System height</b>	55 mm	58 mm	61 mm	64 mm	67 mm	70 mm	72 mm	74 mm		
<b>Weight (without adapter)</b>	~ 360 g	~ 400 g	~ 455 g	~ 500 g	~ 570 g	~ 625 g	~ 680 g	~ 735 g		
<b>Colour</b>	beige (4)									
<b>Shape</b>	narrow									
<b>Max. body weight</b>	80 kg			100 kg			125 kg			

System height respectively with 2R54/2R31/2R8  
Weight respectively without adapter

## Accessories



647G5

Article number	2R54=M10	2R31=M10	2R8=M10
Material	Aluminum	Titanium	Steel
for	1S101, 1S102, 1S103 (all sizes)		1S101, 1S102, up to 125 kg, to 28-30 (275 lbs), 100 kg (220 lbs)
Screw connection	2D7=M10		2D6=M10
Weight	80 g	70 g	125 g
Max. body weight	100 kg	125 kg	

• System height already taken into consideration with the foot.

### 2R14 Connection Plate

glued to the cosmetic foam cover and snapped onto the adapter

Article number	2R14
for	2R54 2R31 2R8



## Single Components as Replacement Parts

Article number	2D7=M10	2D6=M10
for	2R54=M10 2R31=M10	2R8=M10
Scope of Delivery	1 cap screw (titanium) 1 washer	1 cap screw (steel) 1 washer



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647G354

### 1D10 Dynamic Foot with Adapter

The 1D10 Dynamic Foot features natural shape with smooth surface, shaped toes and sandal toe. The functional characteristics are achieved through the proven combination of a contoured core and functional foam. This results in a comfortable heel strike and a smoother rollover than with the SACH foot. The sophisticated foam technology offers improved dynamic characteristics of the forefoot. The 1D10 is delivered with an assembled titanium modular adapter.

Order example

<b>Reference number</b>	=	<b>Side</b>	<b>Size</b>	-	<b>0</b>	-	<b>P</b>	-	<b>/</b>	<b>Colour</b>
<b>1D10</b>	=	L	26	-	0	-	P	-	/	15



≤ 150 kg

<b>Reference number</b>	<b>1D10</b>									
<b>Mobility grade</b>	1 + 2									
<b>Heel height</b>	10 +/- 5 mm									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	
<b>System height</b>	55 mm	58 mm	61 mm	64 mm	67 mm	70 mm	72 mm	74 mm	76 mm	
<b>Weight</b>	~ 385 g	~ 415 g	~ 445 g	~ 485 g	~ 565 g	~ 600 g	~ 660 g	~ 700 g	~ 780 g	
<b>Colour</b>	beige (4), light brown (15)									
<b>Max. body weight</b>	150 kg									



647G356

### 1D10 Dynamic Foot (without Adapter)

The 1D10 Dynamic Foot without adapter is identical to the version with adapter from a functional and cosmetic perspective; the only difference is the maximum allowable patient weight. It is designed for the use in modular and exoskeletal prostheses.

Order example

<b>Reference number</b>	=	<b>Side</b>	<b>Size</b>	-	<b>0</b>	-	<b>W</b>	-	<b>/</b>	<b>Colour</b>
<b>1D10</b>	=	L	26	-	0	-	W	-	/	15



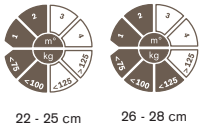
<b>Reference number</b>	<b>1D10</b>									
<b>Mobility grade</b>	1 + 2									
<b>Heel height</b>	10 +/- 5 mm									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	
<b>System height with 2R54/2R31/2R8</b>	55 mm	58 mm	61 mm	64 mm	67 mm	70 mm	72 mm	74 mm	76 mm	
<b>Weight (without adapter)</b>	~ 290 g	~ 320 g	~ 350 g	~ 390 g	~ 470 g	~ 505 g	~ 565 g	~ 605 g	~ 685 g	
<b>Colour</b>	beige (4), light brown (15)									
<b>Max. body weight</b>	125 kg									

## 1D11 Dynamic Foot

The 1D11 Dynamic Foot has a narrow shape and is particularly suitable for women's or narrow men's shoes. It is designed for the use in modular and exoskeletal prostheses.

Order example

**Reference number = Side Size**  
**1D11 = L 26**



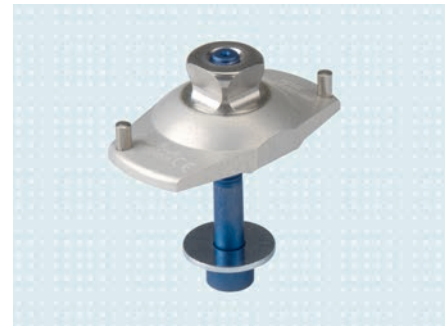
<b>Reference number</b>	<b>1D11</b>						
<b>Mobility grade</b>	1 + 2						
<b>Heel height</b>	20 +/- 5 mm						
<b>Side</b>	Left (L), Right (R)						
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm
<b>System height with 2R54/2R31/2R8</b>	55 mm	58 mm	61 mm	64 mm	67 mm	70 mm	72 mm
<b>Weight (without adapter)</b>	~ 285 g	~ 290 g	~ 345 g	~ 375 g	~ 435 g	~ 495 g	~ 540 g
<b>Colour</b>	beige						
<b>Max. body weight</b>	100 kg				125 kg		



## Accessories

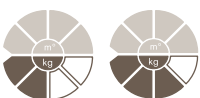


<b>Article number</b>	<b>2R54=M8</b>	<b>2R31=M8</b>	<b>2R8=M8</b>
<b>Material</b>	Aluminum	Titanium	Steel
<b>for</b>	1D11 and 1G6, size 22 – 25		1D11, size 22 – 25
<b>Screw connection</b>	2D7=M8		2D6=M8
<b>Weight</b>	70 g	65 g	115 g
<b>Max. body weight</b>	100 kg		



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System height already taken into consideration with the foot.



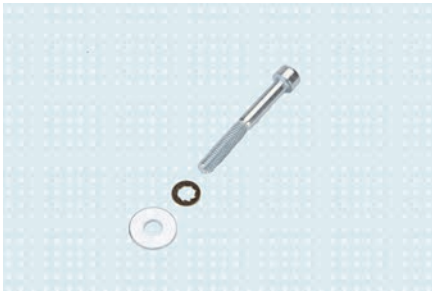
<b>Article number</b>	<b>2R54=M10</b>	<b>2R31=M10</b>	<b>2R8=M10</b>
<b>Material</b>	Aluminum	Titanium	Steel
<b>for</b>	1D10 (all sizes) and 1D11, size 26 - 28		
<b>Screw connection</b>	2D7=M10		2D6=M10
<b>Weight</b>	80 g	70 g	125 g
<b>Max. body weight</b>	100 kg	125 kg	

System height already taken into consideration with the foot.

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## Single Components as Replacement Parts

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### 2D7 Screw Connection

Article number	2D7=M8	2D7=M10	2D6=M8	2D6=M10
<b>for</b>	2R54=M8 2R31=M8	2R54=M10 2R31=M10	2R8=M8 2R40=1	2R8=M10
<b>Scope of Delivery</b>	1 cap screw (titanium) 1 washer		1 cap screw (steel) 1 washer	

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## 1M10 Adjust

The 1M10 Adjust is a multiaxial foot with adjustable heel characteristic. While walking, the Adjust offers the user a pleasant heel strike, good dampening characteristics and easy rollover. Thanks to this design, the user is able to maintain a stable standing position - regardless of the proportion of the body weight supported by the prosthesis.

Its multiaxial joint and the flexibility of the function module and forefoot-ball pad, the Adjust effectively compensates for uneven surfaces. The adjustable function module of the Adjust allows individual heel characteristic requirements to be taken into account when optimizing the prosthesis.

The 1M10 Adjust for people who spend most of their time indoors and only venture outside occasionally.

The scope of delivery includes the footshell with connection cap and a Spectra-Sock protective sock.



664D420=DE 647G439  
 646C54 646DV54



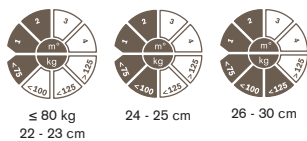
reddot design award  
honourable mention 2010

2010 ■

Order example

**Reference number = side size - stiffness - P / colour shape**  
**1M10 = L 27 - 2 - P / 4 N**

▶ Please order directly through customer service. Order fax no. in appendix.



<b>Reference number</b>	<b>1M10</b>										
<b>Mobility grade</b>	1 + 2										
<b>Side</b>	Left (L), Right (R)										
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm		
<b>Weight (without footshell)</b>	~ 255 g		~ 320 g		~ 385 g		~ 465 g				
<b>Stiffness</b>	1, 2, 3										
<b>Max. body weight</b>	80 kg		100 kg		125 kg						

<b>Heel height</b>	<b>10 +/- 5 mm</b>									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	
<b>System height</b>	46 mm	48 mm	53 mm		57 mm	59 mm	64 mm			
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	normal (N)									

<b>Heel height</b>	<b>20 +/- 5 mm</b>									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm					
<b>System height</b>	38 mm		44 mm		49 mm					
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	narrow (S)									

### Stiffness Chart

Stiffness	Sizes			
	22 - 23 cm	24 - 25 cm	26 - 27 cm	28 - 30 cm
1	up to 52 kg (114 lbs)	up to 58 kg (128 lbs)	up to 72 kg (158 lbs)	up to 77 kg (169 lbs)
2	53 - 68 kg (117 - 160 lbs)	59 - 76 kg (130 - 167 lbs)	73 - 95 kg (161 - 209 lbs)	78 - 100 kg (172 - 220 lbs)
3	69 - 80 kg (152 - 176 lbs)	77 - 100 kg (169 - 220 lbs)	96 - 125 kg (211 - 275 lbs)	101 - 125 kg (222 - 275 lbs)

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**Adjustable function module**  
facilitates adjusting the heel characteristics to the individual needs of the user.

**Multiaxial joint**  
creates a secure connection, which is flexible in all directions, between the base spring and adapter plate to compensate for uneven surfaces.

**Base spring**  
enables comfortable standing and optimised rollover characteristics. The pads are tailored to the weight of the amputee.



## Single components

### 2C1 Footshell

with connection cap in normal or slim form

Order example

Reference number	=	Side	Size	/	Colour	Form
<b>2C1</b>	=	L	22	/	4	N

Reference number	2C1									
Heel height	10 +/- 5 mm									
Side	Left (L), Right (R)									
Size	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	
Weight	~ 150 g	~ 165 g		~ 185 g	~ 195 g	~ 230 g	~ 240 g	~ 260 g	~ 275 g	
Colour	beige (4), light brown (15)									
Shape	normal (N)									

Reference number	2C1				
Heel height	20 +/- 5 mm				
Side	Left (L), Right (R)				
Size	22 cm	23 cm	24 cm	25 cm	26 cm
Weight	~ 120 g	~ 130 g	~ 135 g	~ 150 g	~ 165 g
Colour	beige (4), light brown (15)				
Shape	narrow (S)				



### Connection Cap

Order example

Reference number	=	Side	Size range	/	Colour
<b>2C19</b>	=	L	23-25	/	4

Reference number	2C19			
Side	Left (L), Right (R)			
Size range	21 - 22 cm	23 - 25 cm	26 - 28 cm	29 - 30 cm
for	for 2C1=*N Footshell			
Colour	beige (4), light brown (15)			

Order example

Reference number	=	Side	Size	/	Colour
<b>2C20</b>	=	L	23	/	4

Reference number	2C20					
Side	Left (L), Right (R)					
Size	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm
for	for 2C1=*S Footshell					
Colour	beige (4), light brown (15)					



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## 2D11 Single Component Pack

<b>Article number</b>	<b>2D11</b>
<b>for</b>	1M10 Adjust
<b>Scope of Delivery</b>	1 insert for the sizes 22 – 23 cm 1 insert for the sizes 24 – 25 cm 1 insert for the sizes 26 – 27 cm 1 insert for the sizes 28 – 30 cm

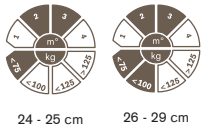
## 1A30 Greissinger plus

The Greissinger plus compensates for uneven surfaces via its multi-axial function. All-round mobility is achieved by the rollover of the titanium adapter on the ring-shaped elastomer which is adapted for stress in the a/p and m/l directions, combined with the fork in a flexible suspension. The elastomer in 3 different stiffness levels is included.

A foam connecting cap used as a connection to the cosmetic shell is included in the scope of delivery.

Order example

Reference number	=	Side	Size
1A30	=	L	26



24 - 25 cm

26 - 29 cm

<b>Reference number</b>	1A30					
<b>Mobility grade</b>	2 + 3					
<b>Heel height</b>	10 +/- 5 mm					
<b>Side</b>	Left (L), Right (R)					
<b>Size</b>	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm
<b>System height</b>	67 mm	68 mm	69 mm	70 mm	71 mm	72 mm
<b>Weight</b>	~620 g	~670 g	~705 g	~760 g	~810 g	~820 g
<b>Colour</b>	beige					
<b>Max. body weight</b>	75 kg		100 kg			



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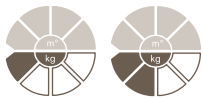
647H166

## Single Components as Replacement Parts

### 1A31 Greissinger plus Shaped Foot Part without Adapter

Order example

Reference number	=	Side	Size
1A31	=	L	26



24 - 25 cm

26 - 29 cm

<b>Reference number</b>	1A31					
<b>Side</b>	Left (L), Right (R)					
<b>Size</b>	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm
<b>Max. body weight</b>	75 kg		100 kg			





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### 2R86 Foam Connection Cap

bonded to the foam cover and pressed onto the edge of the formed foot component.  
 Can be used on left/right.

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Order example

**Reference number = size**

**2R86 = 24**

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Reference number	2R86
Size	24 cm, 25 cm, 26 cm, 27 cm, 28 cm, 29 cm

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### Single Component Pack

Article number	2D3	2D4
Size	24 – 25 cm	26 – 29 cm

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<b>Scope of Delivery</b>	1 of each rocking rubber soft, medium, hard 1 elastic upper joint section 1 two hole washer 2 attachment bolts 1 washer 1 lock nut	
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## 1D35 Dynamic Motion

From a comfortable heel strike with noticeable plantar flexion through the progressive ankle moment up to the optimised a-p and m-l movement: the natural gait is the model for the 1D35 Dynamic Motion.

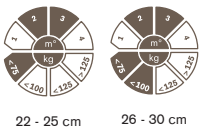
Thanks to the outstanding characteristics of the plastic spring in combination with the functional foam and the integrated 3D spacer fabric, the Dynamic Motion has a high energy return and allows for a dynamic transition from the stance to the swing phase. The contralateral side is effectively relieved. The result is a harmonious and physiological rollover.



646S1=5.04D 647G127

Order example

**Reference number = Side Size - 0 - P - / Colour**  
**1D35 = L 26 - 0 - P / 4**



<b>Reference number</b>	<b>1D35</b>								
<b>Mobility grade</b>	2 + 3								
<b>Heel height</b>	10 +/-5 mm								
<b>Side</b>	Left (L), Right (R)								
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
<b>System height</b>	57 mm	60 mm	63 mm	66 mm	68 mm	72 mm	74 mm	75 mm	77 mm
<b>Weight</b>	~ 340 g	~ 435 g	~ 510 g	~ 545 g	~ 630 g	~ 645 g	~ 670 g	~ 730 g	~ 755 g
<b>Colour</b>	beige (4), light brown (15)								
<b>Max. body weight</b>	75 kg				100 kg				

**S-spring element**

The shape and elasticity of the spring permit sideways mobility to compensate for uneven surfaces.

**Removable connection cap**

for an attractive, easy to handle connection to the foam cover.



**3D spacer fabric**

increases forefoot support and, in combination with the S-spring, ensures a dynamic transition from the stance to the swing phase.

**Elastic foam elements**

support compression of the front resilient bend at heel strike and the rear resilient bend at rollover.

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## Single Components for 1D35 as Spare Parts



### 2C10 Connection Cap

bonded to the foam cover and then pressed onto the edge of the formed foot component.

Order example

Reference number	=	Side	Size range	/	Colour
<b>2C10</b>	=	L	21-22	/	4

<b>Reference number</b>	<b>2C10</b>
<b>Side</b>	Left (L), Right (R)
<b>Size</b>	21 – 22 cm
<b>for</b>	1D35
<b>Colour</b>	beige (4), light brown (15)



### 2C11 Connection Cap

bonded to the foam cover and then pressed onto the edge of the formed foot component.

Order example

Reference number	=	Side	Size range	/	Colour
<b>2C11</b>	=	L	23-25	/	4

<b>Reference number</b>	<b>2C11</b>
<b>Side</b>	Left (L), Right (R)
<b>Size</b>	23 – 25 cm, 26 – 28 cm, 29 – 30 cm
<b>for</b>	1D35
<b>Colour</b>	beige (4), light brown (15)

## 1C30 Trias

The 1C30 Trias is an extraordinary solution for a prosthetic foot – a combination of creative design and innovative lightweight construction technology. Interconnected dual spring elements provide relief with dampening at heel strike and enable a physiological rollover with excellent energy return. Secure, controlled movements help the user build self-confidence. The foot adapts to different walking speeds and to uneven terrain without a loss of comfort, while simultaneously reducing strain on the sound limb.

The scope of delivery for the Trias includes the footshell with connection cap and a Spectra sock.



**i** 646D234=EN  
646D744=EN  
646D743=EN

**W** 647G279

- ▶ Please order directly through customer service:  
Ordering information and measurement forms in the appendix

Order example

**Reference number = Side Size - Stiffness - P / Colour Shape**

**1C30 = L 26 - 1 - P / 4 S**

**Reference number = Side Size - Stiffness - P / Colour**

**1C30 = L 26 - 1 - P / 4**



Max. 80 kg  
21 - 22 cm  
Max. 95 kg  
23 - 24 cm

Max. 110 kg  
25 - 26 cm  
Max. 125 kg  
27 - 30 cm

<b>Reference number</b>	<b>1C30</b>									
<b>Mobility grade</b>	2 + 3									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
<b>Weight (without footshell)</b>	~ 235 g		~ 268 g		~ 346 g		~ 396 g		~ 435 g	
<b>Stiffness</b>	1, 2, 3, 4									
<b>Colour</b>	beige (4), light brown (15)									
<b>Heel height</b>	<b>20 +/- 5 mm</b>									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm				
<b>Weight</b>	~ 110 g	~ 120 g	~ 130 g	~ 135 g	~ 150 g	~ 165 g				
<b>System height</b>	82 mm			85 mm		93 mm				
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	narrow (S)									
<b>Heel height</b>	<b>10 +/- 5 mm</b>									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
<b>Weight</b>	~ 130 g	~ 145 g	~ 155 g	~ 175 g	~ 185 g	~ 205 g	~ 210 g	~ 240 g	~ 245 g	~ 260 g
<b>System height</b>	86 mm		88 mm		95 mm		104 mm	106 mm	108 mm	
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	normal (-)									

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**Stiffness chart**

		Sizes									
		21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
Body weight	45 – 60 kg	1	1	1	1	–	–	–	–	–	–
	61 – 80 kg	2	2	2	2	1	1	1	1	–	–
	81 – 95 kg	–	–	3	3	2	2	2	2	1	1
	96 – 110 kg	–	–	–	–	3	3	3	3	2	2
	111 – 125 kg	–	–	–	–	–	–	4	4	3	3

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● normal and slim footshell available    ● normal footshell available

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**Adapter**  
Pyramid adapter made of lightweight aluminium.

**Dual carbon forefoot springs**  
control forefoot flexibility for a harmonious rollover and ensure good stability and energy return at the end of the stance phase.



**Dual carbon heel springs**  
guarantee shock absorption at heel strike.

**Carbon base spring with reinforced forefoot and heel area**  
joins the forefoot and heel springs, and ensures that the foot functions as a harmonised unit.

## Accessoires

### 2C3 Footshell

with connection cap

Order example

**Reference number = Side Size / Colour Shape**

**2C3 = L 21 / 4 S**

**Reference number = Side Size / Colour**

**2C3 = L 21 / 4**



 647G333

<b>Reference number</b>	<b>2C3</b>					
<b>Heel height</b>	20 +/- 5 mm					
<b>Side</b>	Left (L), Right (R)					
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm
<b>Weight</b>	~ 110 g	~ 120 g	~ 130 g	~ 135 g	~ 150 g	~ 165 g
<b>Colour</b>	beige (4), light brown (15)					
<b>Shape</b>	narrow (S)					

<b>Reference number</b>	<b>2C3</b>									
<b>Heel height</b>	10 +/- 5 mm									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
<b>Weight</b>	~ 130 g	~ 145 g	~ 155 g	~ 175 g	~ 185 g	~ 205 g	~ 210 g	~ 240 g	~ 245 g	~ 260 g
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	normal (-)									

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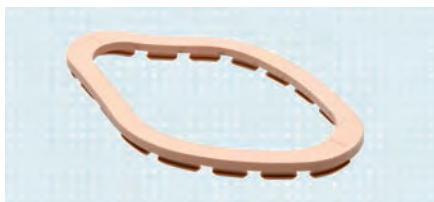
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## Single Components as Replacement Parts



### 2C19 Connection Cap

Order example

Reference number	=	Side	Size range	/	Colour
<b>2C19</b>	=	L	23-25	/	4

Reference number	2C19			
<b>Side</b>	Left (L), Right (R)			
<b>Size range</b>	21 - 22 cm	23 - 25 cm	26 - 28 cm	29 - 30 cm
<b>for</b>	normal footshell 2C3			
<b>Colour</b>	beige (4), light brown (15)			

### 2C20 Connection Cap

Order example

Reference number	=	Side	Size	/	Colour
<b>2C20</b>	=	L	23	/	4

Reference number	2C20					
<b>Side</b>	Left (L), Right (R)					
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm
<b>for</b>	narrow footshell 2C3					
<b>Colour</b>	beige (4), light brown (15)					

## 1C40 C-Walk

The functional properties of the 1C40 C-Walk prosthetic foot are determined by spring elements made of carbon (CFRP) and the control ring. The ingenious interplay of the individual components leads to a harmonious and efficient movement pattern. The prosthesis wearer can feel the positive play of movement that begins with the cushioned heel strike and ends with the dynamic initiation of the swing phase, including the multiaxial flexibility and compensation for uneven walking surfaces.

Thanks to the progressive spring characteristics, the effect of the C-Walk changes only slightly under different loads. This makes the selection easier for the prosthetist and makes activities – from walking slowly to participating in sports – possible without a noticeable loss of comfort.

The scope of delivery for the C-Walk includes the footshell with connection cap.



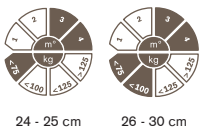
646A154=GB

647H201

Order example

**Reference number = Side Size - 0 - P - / Colour**

**1C40 = L 26 - 0 - P / 4**



<b>Reference number</b>	<b>1C40</b>						
<b>Mobility grade</b>	3 + 4						
<b>Heel height</b>	10 +/- 5 mm						
<b>Side</b>	Left (L), Right (R)						
<b>Size</b>	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
<b>System height</b>	71 mm		81 mm			87 mm	
<b>Weight (without footshell)</b>	~ 405 g	~ 420 g	~ 480 g	~ 490 g	~ 505 g	~ 605 g	~ 630 g
<b>Colour</b>	beige (4), light brown (15)						
<b>Max. body weight</b>	75 kg		100 kg				

### Control ring

guarantees that both springs work together.

### Carbon C-spring

ensures a comfortable heel strike and controlled plantar flexion through compression in conjunction with the control ring and base spring.



### Carbon base spring

stores energy during rollover and releases it during the transition to the swing phase.





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## Single Components as Replacement Parts



### 2C4 Footshell

with connection cap

Order example

Reference number	=	Side	Size	/	Colour
2C4	=	L	26	/	4

Reference number	2C4						
Side	Left (L), Right (R)						
Size	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
Weight	~ 185 g	~ 200 g	~ 215 g	~ 225 g	~ 250 g	~ 265 g	~ 290 g
Colour	beige (4), light brown (15)						



### 2C11 Connection Cap

Order example

Reference number	=	Side	Size range	/	Colour
2C11	=	L	23-25	/	4

Reference number	2C11	
Side	Left (L), Right (R)	
Size	23 – 25 cm, 26 – 28 cm, 29 – 30 cm	
for	for 2C4 Footshell	
Colour	beige (4), light brown (15)	

## 1E56 Axtion

The 1E56 Axtion is a compact and lightweight high-performance foot for active amputees. Its low clearance makes it particularly well suited for patients where only limited space is available. As an all-round talent, the 1E56 Axtion is ideal for everyday use as well as for recreational sports.

A unique combination of flexible carbon springs and elastic polyurethane results in the optimum performance of the Axtion during all gait phases:

The dynamic heel element effectively absorbs the impact load at heel strike. Heel stiffness and the resulting knee dynamics can be adapted to the individual requirements of the patient by using different heel wedges, which are included in the scope of delivery.

During rollover, the especially long supporting foot length offers exactly the right amount of support required for a natural gait pattern. The polyurethane layer compensates for small surface irregularities.

Excellent forefoot dynamics support the transition to the swing phase by returning the stored energy. The Axtion thus supports a controlled toe-off, even at high walking speeds.

The scope of delivery for the 1E56 Axtion includes a Spectra-Sock as well as one transparent heel wedge (soft) and one anthracite heel wedge (firm). The 2C5 Footshell for the Axtion must be ordered separately. It is available in the colours beige (4) and light brown (15).



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647G493



reddot design award  
winner 2005

Order example

Reference number	=	Side	Size	-	Stiffness	-	P	/	Colour
1E56	=	N	27	-	3	-	P	/	0

- Please order directly through customer service: ordering information and measurement forms in the appendix



Reference number	1E56									
Mobility grade	3 + 4									
Heel height	13 +/- 5 mm									
Size	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
System height	34 mm	35 mm				36 mm				37 mm
Weight (without footshell)	~310 g	~315 g	~320 g	~325 g	~355 g	~360 g	~370 g	~380 g	~395 g	~410 g
Stiffness	1, 2, 3, 4, 5									
Max. body weight	125 kg									

### Stiffness Chart

Body Weight	Sizes									
	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
up to 50 kg (110 lbs)	1	1	1	1	1	1	1	1	1	1
51 – 65 kg (112 – 143 lbs)	2	2	2	2	2	2	2	2	2	2
66 – 85 kg (145 – 187 lbs)	3	3	3	3	3	3	3	3	3	3
86 – 100 kg (189 – 220 lbs)	4	4	4	4	4	4	4	4	4	4
101 – 125 kg (222 – 275 lbs)	5	5	5	5	5	5	5	5	5	5

Not stock items

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**Heel wedges**  
for individual adaptation of the heel characteristics.

**Dynamic heel element**  
for shock absorption on heel strike.

**Unique adapter design**  
supports forward movement and permits an even, natural gait pattern.

**Carbon-polyurethane sandwich structure**  
for a dynamic gait.



**Practical recommendation:**

- The ankle moments of the Axtion cause heavy strain on the adjacent prosthetic components. Therefore, it is necessary to use adapters of the next higher weight class below the knee joint (e.g. for a patient with a body weight of 90 kg (198 lbs): use adapters rated up to 125 kg (275 lbs)). The prosthetic foot is designed for use with a footshell. Without a footshell, the individual foot is shorter than the size indicates.

## Accessories



### 2C5 Footshell

with connection cap

Order example

Reference number	=	Side	Size	/	Colour
2C5	=	L	25	/	4

647G333

Reference number	2C5									
Side	Left (L), Right (R)									
Size	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
Weight	~150 g	~155 g	~195 g	~210 g	~225 g	~235 g	~265 g	~275 g	~310 g	~320 g
Colour	beige (4), light brown (15)									

## Single Components as Replacement Parts



### 2F20 Heel Wedge

as spare part or for retrofitting

Article number	2F20=22-25	2F20=26-31
Size	22 – 25 cm	26 – 31 cm
for	1E56 Axtion	

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## SL=Spectra-Sock Protective Sock

<b>Article number</b>	<b>SL=Spectra-Sock</b>
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## 2C10 Connection Cap

Order example

Reference number	=	Side	Size range	/	Colour
<b>2C10</b>	=	L	21-22	/	4



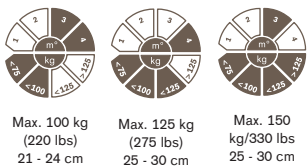
Reference number	2C10
<b>Side</b>	Left (L), Right (R)
<b>Size</b>	21 – 22 cm, 23 – 25 cm, 26 – 28 cm, 29 – 31 cm
<b>for</b>	2C5 Footshell
<b>Colour</b>	beige (4), light brown (15)

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### 1C60 Triton

The 1C60 Triton prosthetic foot offers excellent functionality even under the high load. The forefoot and heel are made of a light, flexible carbon fibre composite and connected by a base spring made of high-performance polyester to form a cohesive system. This allows for an especially smooth rollover.

One of the benefits of the split forefoot area is that it easily adapts to various surfaces, helping to guarantee that the user's movements are controlled. This provides excellent traction when walking on uneven surfaces or when rapidly changing direction, such as during sports.

The 1C60 Triton is suited for patients who wish to have a dynamic carbon fibre prosthetic foot which would be suitable for everyday life and recreational sports.

The scope of delivery for the Triton includes the footshell with connection cap, a Spectra-Sock and a transparent (soft) as well as anthracite (firm) heel wedge.

• Please order directly through customer service.

Order example

Reference number	=	Side	Size	-	Stiffness	-	P	/	Solour	Shape
1C60	=	L	25	-	1	-	P	/	4	S

<b>Reference number</b>	<b>1C60</b>									
<b>Mobility grade</b>	3 + 4									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
<b>Weight (without footshell)</b>	~355 g		~410 g		~460 g		~505 g		~540 g	
<b>Stiffness</b>	1, 2, 3, 4, 5									
<b>Max. body weight MG 3</b>	100 kg					150 kg				
<b>Max. body weight MG 4</b>	100 kg					125 kg				
<b>Heel height</b>	<b>15 +/- 5 mm</b>									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm			
<b>Weight</b>	~135 g	~145 g	~155 g	~180 g	~190 g	~200 g	~215 g			
<b>System height</b>	116 mm	117 mm	118 mm	120 mm	124 mm	125 mm	136 mm			
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	narrow (S)									
<b>Heel height</b>	<b>10 +/- 5 mm</b>									
<b>Size</b>	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm			
<b>Weight</b>	~190 g	~200 g	~220 g	~225 g	~245 g	~270 g	~300 g			
<b>System height</b>	126 mm	129 mm	131 mm	140 mm	141 mm	154 mm	156 mm			
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	normal (N)									

## Selection Table

Body Weight	Sizes									
	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
up to 55 kg (121 lbs)	1	1	1	1	1	1	–	–	–	–
56 – 75 kg (123 – 165 lbs)	2	2	2	2	2	2	2	2	2	2
76 – 100 kg (167 – 220 lbs)	3	3	3	3	3	3	3	3	3	3
101 – 125 kg (222 – 275 lbs)	–	–	–	–	4	4	4	4	4	4
126 – 150 kg (277 – 330 lbs)	–	–	–	–	5	5	5	5	5	5

Slim footshell available
  Both footshells available
  Normal footshell available

### Carbon attachment spring

The carbon attachment spring gives the foot the required stability.

### Adapters

The lightweight aluminium pyramid adapter with a stainless steel core makes integration into modular prosthesis systems simple.

### Replaceable Heel Wedge

The optional heel wedges provide a simple method for adapting the 1C60 Triton to the individual needs of the patient.

### Carbon forefoot spring

The split forefoot spring offers energy return, stability and control at rollover and toe-off.



### Carbon heel spring

The heel spring dampens the impact at heel strike and stores the energy for a smooth rollover.

### Base spring

The split base spring made of high-performance polymer has a separate big toe and connects the forefoot and the heel spring to form a complete system.



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## Accessories for the 1C60, 1C61, 1C62, 1C63 and 1C64 Triton

### 2C6 Footshell

with connection cap in normal or slim form

Order example

Reference number	=	Side	Size	/	Colour	Shape
<b>2C6</b>	=	L	27	/	4	N

Reference number	2C6						
Heel height	15 +/- 5 mm						
Side	Left (L), Right (R)						
Size	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm
Weight	~135 g	~145 g	~155 g	~180 g	~190 g	~200 g	~215 g
Colour	beige (4), light brown (15)						
Shape	narrow (S)						

Reference number	2C6						
Heel height	10 +/- 5 mm						
Side	Left (L), Right (R)						
Size	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
Weight	~190 g	~200 g	~220 g	~225 g	~245 g	~270 g	~300 g
Colour	beige (4), light brown (15)						
Shape	normal (N)						

## Single Components for the 1C60, 1C61, 1C62, 1C63 and 1C64 Triton as Replacement Parts



### Connection Cap

Order example

Reference number	=	Side	Size range	/	Colour
<b>2C19</b>	=	L	23-25	/	4

Reference number	2C19			
Side	Left (L), Right (R)			
Size range	21 - 22 cm	23 - 25 cm	26 - 28 cm	29 - 30 cm
for	2C6=*N Footshell			
Colour	beige (4), light brown (15)			

Order example

Reference number	=	Side	Size	/	Colour
<b>2C20</b>	=	L	23	/	4

Reference number	2C20						
Side	Left (L), Right (R)						
Size	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm
for	2C6=*S Footshell						
Colour	beige (4), light brown (15)						

## 2F60 Heel Wedges for 1C60 Triton

as spare part or for retrofitting

Order example

**Reference number = Size range**

**2F60 = 23-24**



Reference number	2F60
Size	21-22 cm, 23-24 cm, 25-26 cm, 27-28 cm, 29-30 cm

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### 1C61 Triton Vertical Shock

The Triton Vertical Shock extends the excellent functionality of the 1C60 Triton carbon foot with enhanced shock absorption and torsion resistance.

Thanks to its innovative design, the Triton carbon foot supports a particularly broad range of applications from everyday use to recreational sports. The additional functionality of the 1C60 Triton Vertical Shock results in better adaptation to uneven surfaces for the user.

Vertical and torsional forces, which occur for example during sports, are effectively reduced. This results in noticeable relief for the user's residual limb.

Thanks to the compact design of the Triton Vertical Shock, the system is also suitable for patients with longer transtibial residual limbs.

The scope of delivery for the Triton Vertical Shock includes a Spectra-Sock, the footshell with connection cap, a transparent (soft) and anthracite (firm) heel wedge and a pre-assembled functional ring.

➔ Please order directly through customer service.

Order example

Reference number	=	Side	Size	-	Spring Stiffness	-	Functional ring Stiffness	-	P	/	Colour	Form
<b>1C61</b>	=	R	27	-	2	-	3	-	P	/	4	N



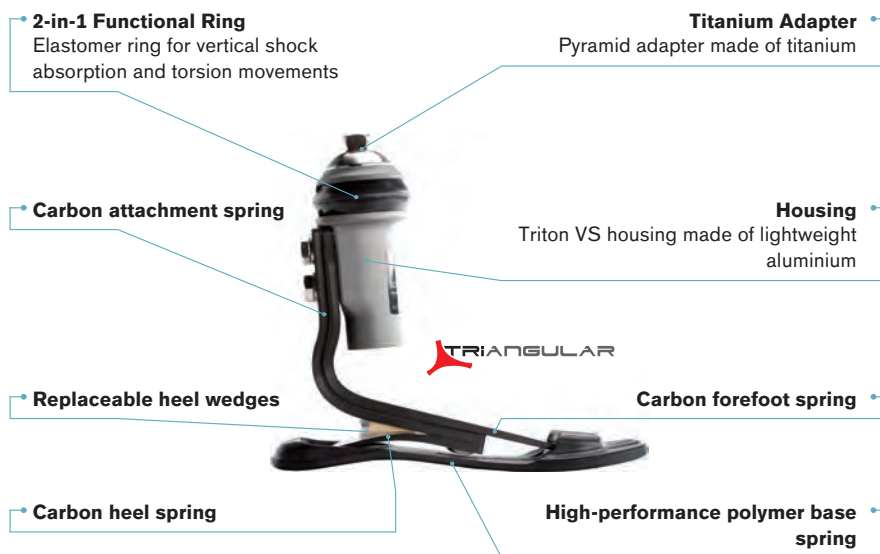
Max. 100 kg (220 lbs) 21 - 24 cm  
Max. 125 kg (275 lbs) 25 - 30 cm  
Max. 150 kg/330 lbs 25 - 30 cm

<b>Reference number</b>	<b>1C61</b>										
<b>Mobility grade</b>	3 + 4										
<b>Side</b>	Left (L), Right (R)										
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	
<b>Weight (without footshell)</b>	~655 g		~710 g		~760 g		~805 g		~840 g		
<b>Stiffness</b>	1, 2, 3, 4, 5										
<b>Functional ring stiffness</b>	0, 1, 2, 3, 4, 5, 6, 7, 8, 9										
<b>Max. body weight MG 3</b>	100 kg					150 kg					
<b>Max. body weight MG 4</b>	100 kg					125 kg					
<b>Heel height</b>	<b>15 +/- 5 mm</b>										
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm				
<b>Weight</b>	~135 g	~145 g	~155 g	~180 g	~190 g	~200 g	~215 g				
<b>System height</b>	163 mm	164 mm	166 mm	167 mm	175 mm	177 mm					
<b>Colour</b>	beige (4), light brown (15)										
<b>Shape</b>	narrow (S)										
<b>Heel height</b>	<b>10 +/- 5 mm</b>										
<b>Size</b>	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm				
<b>Weight</b>	~190 g	~200 g	~220 g	~225 g	~245 g	~270 g	~300 g				
<b>System height</b>	173 mm	175 mm	177 mm	181 mm	183 mm	189 mm	191 mm				
<b>Colour</b>	beige (4), light brown (15)										
<b>Shape</b>	normal (N)										

Selection Table (spring stiffness – functional ring stiffness)

Body Weight	Sizes										
	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	
40 – 47 kg (88 – 103 lbs)	1-0 special order – please contact customer service						-	-	-	-	-
48 – 55 kg (106 – 121 lbs)	1-1	1-1	1-1	1-1	1-1	1-1	-	-	-	-	
56 – 65 kg (123 – 143 lbs)	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	
66 – 75 kg (145 – 165 lbs)	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	
76 – 87 kg (167 – 191 lbs)	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	
88 – 100 kg (194 – 220 lbs)	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	
101 – 112 kg (222 – 246 lbs)	-	-	-	-	4-6	4-6	4-6	4-6	4-6	4-6	
113 – 125 kg (249 – 275 lbs)	-	-	-	-	4-7	4-7	4-7	4-7	4-7	4-7	
126 – 137 kg (277 – 301 lbs)	-	-	-	-	5-8	5-8	5-8	5-8	5-8	5-8	
138 – 150 kg (304 – 330 lbs)	-	-	-	-	5-9	5-9	5-9	5-9	5-9	5-9	

Slim footshell available
  Both footshells available
  Normal footshell available



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## Single Components as Replacement Parts



### 4X260 Functional ring

Article number	Body weight	Functional ring stiffness
4X260=0	40 - 47	0
4X260=1	48 - 55	1
4X260=2	56 - 65	2
4X260=3	66 - 75	3
4X260=4	76 - 87	4
4X260=5	88 - 100	5
4X260=6	101 - 112	6
4X260=7	113 - 125	7
4X260=8	126 - 137	8
4X260=9	138 - 150	9

- For information on ordering additional single components, please see the pages 110, 112-114, 117, 120, 122.

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## 1C62 Triton Harmony

The Triton Harmony combines the outstanding functionality of the 1C60 Triton carbon foot with the proven Harmony P3 technology. This results in a highly functional, compact foot system with integrated Harmony pump for the fabrication of a socket system with a greater vacuum, additional shock absorption and torsion capability.

The Harmony system improves adhesion between the residual limb and the prosthesis, resulting in enhanced proprioception and an additional plus in safety in any situation. Furthermore, the residual limb volume is stabilised and circulation is promoted.

Compared to the use of separate components, the 1c62 Triton Harmony offers a weight advantage and reduced structural height. This means patients with a longer transtibial residual limb can also benefit from the combination of Triton features with Harmony vacuum technology.

The scope of delivery for the Triton Harmony includes a Spectra-Sock, the footshell including connection cap, a transparent (soft) and anthracite (firm) heel wedge, a pump with pre-assembled functional ring, socket connector and sound absorber.



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• Please order directly through customer service.

Order example

Reference number	=	Side	Size	-	Spring Stiffness	-	Functional ring Stiffness	-	P	/	Colour	Form
<b>1C62</b>	=	R	27	-	2	-	3	-	P	/	4	N



Max. 100 kg (220 lbs)  
21 - 24 cm

Max. 125 kg (275 lbs)  
25 - 30 cm

Max. 150 kg/330 lbs  
25 - 30 cm

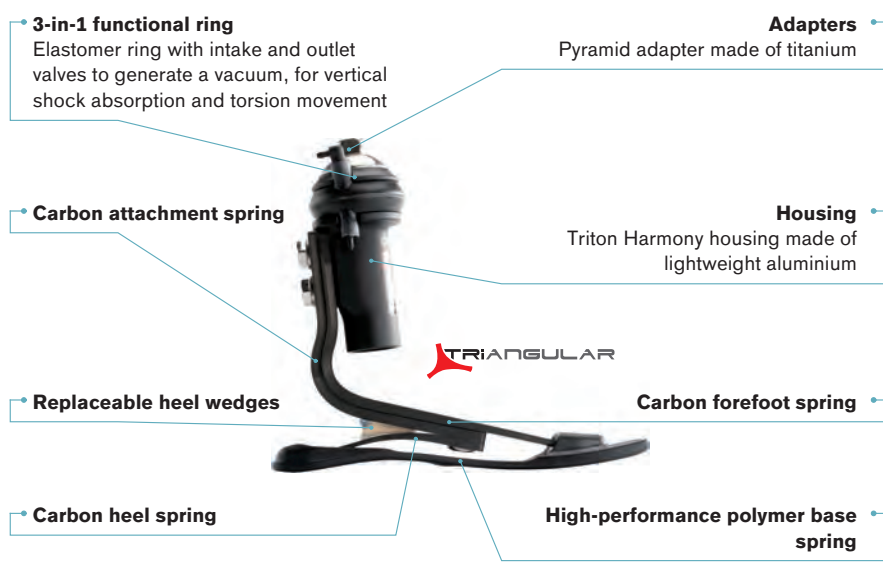
<b>Reference number</b>	<b>1C62</b>									
<b>Mobility grade</b>	3 + 4									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
<b>Weight (without footshell)</b>	~655 g		~710 g		~760 g		~805 g		~840 g	
<b>Stiffness</b>	1, 2, 3, 4, 5									
<b>Functional ring stiffness</b>	0, 1, 2, 3, 4, 5, 6, 7, 8, 9									
<b>Max. body weight MG 3</b>	100 kg					150 kg				
<b>Max. body weight MG 4</b>	100 kg					125 kg				
<b>Heel height</b>	<b>15 +/- 5 mm</b>									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm			
<b>Weight</b>	~135 g	~145 g	~155 g	~180 g	~190 g	~200 g	~215 g			
<b>System height</b>	163 mm	164 mm	166 mm	167 mm	175 mm	177 mm				
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	narrow (S)									
<b>Heel height</b>	<b>10 +/- 5 mm</b>									
<b>Size</b>	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm			
<b>Weight</b>	~190 g	~200 g	~220 g	~225 g	~245 g	~270 g	~300 g			
<b>System height</b>	173 mm	175 mm	177 mm	181 mm	183 mm	189 mm	191 mm			
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	normal (N)									

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Selection Table (spring stiffness – functional ring stiffness)

Body Weight	Sizes										
	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	
40 – 47 kg (88 – 103 lbs)	1-0 special order – please contact customer service						-	-	-	-	-
48 – 55 kg (106 – 121 lbs)	1-1	1-1	1-1	1-1	1-1	1-1	-	-	-	-	
56 – 65 kg (123 – 143 lbs)	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	
66 – 75 kg (145 – 165 lbs)	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	
76 – 87 kg (167 – 191 lbs)	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	
88 – 100 kg (194 – 220 lbs)	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	
101 – 112 kg (222 – 246 lbs)	-	-	-	-	4-6	4-6	4-6	4-6	4-6	4-6	
113 – 125 kg (249 – 275 lbs)	-	-	-	-	4-7	4-7	4-7	4-7	4-7	4-7	
126 – 137 kg (277 – 301 lbs)	-	-	-	-	5-8	5-8	5-8	5-8	5-8	5-8	
138 – 150 kg (304 – 330 lbs)	-	-	-	-	5-9	5-9	5-9	5-9	5-9	5-9	

Slim footshell available
  Both footshells available
  Normal footshell available



## Single Components as Replacement Parts

### 4X147 Functional Ring for Harmony P3

Article number	Body weight	Functional ring stiffness
4X147=0	40 - 47 kg	0
4X147=1	48 - 55 kg	1
4X147=2	56 - 65 kg	2
4X147=3	66 - 75 kg	3
4X147=4	76 - 87 kg	4
4X147=5	88 - 100 kg	5
4X147=6	101 - 112 kg	6
4X147=7	113 - 125 kg	7
4X147=8	126 - 137 kg	8
4X147=9	138 - 150 kg	9

Functional ring incl. 2 valves, 2 O-rings, washer and lubricant

#### Consisting of

Functional ring incl. 2 valves, 2 O-rings, washer and lubricant

- For information on ordering additional single components, please see the pages 110, 112-114, 117, 120, 122.



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646D447=GB

### 1C63 Triton Low Profile

The 1C63 Triton Low Profile makes the excellent functionality of the 1C60 Triton available even to patients with limited space for integration.

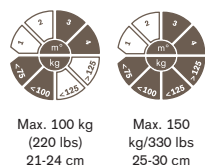
Just like the Triton, the Low Profile version offers the advantages of the cohesive system made of flexible carbon fibre composite material and the base spring made of high-performance polymer. In the segment of prosthetic feet with a low clearance, it offers unique functionality. Next to an especially smooth rollover, the Triton Low Profile features high flexibility in the ML direction. This ensures safety and support for walking on uneven surfaces and during recreational sports. Due to its broad area of application and high load-bearing capacity, the Triton Low Profile is ideal for use in combination with the C-Leg and Genium.

The scope of delivery for the Triton Low Profile includes the footshell with connection cap, a Spectra-Sock and a transparent (soft) and anthracite (firm) heel wedge.

- Please order directly through customer service.
- For information on ordering additional single components, please see the pages 110, 112-114, 117, 120, 122.

Order example

Reference number	=	Side	Size	-	Stiffness	-	P	/	Colour	Shape
1C63	=	R	27	-	3	-	P	/	4	N



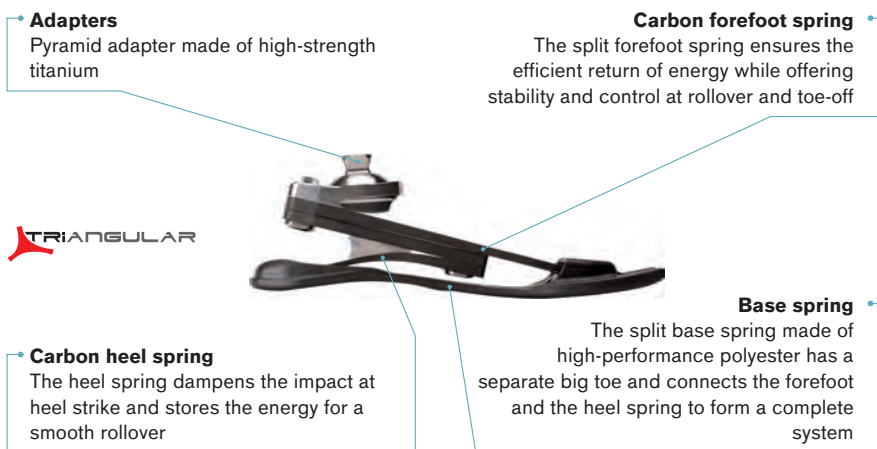
<b>Reference number</b>	<b>1C63</b>									
<b>Mobility grade</b>	3+4									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
<b>Weight (without footshell)</b>	~300 g	~305 g	~365 g	~370 g	~410 g	~415 g	~450 g	~455 g	~550 g	~555 g
<b>Stiffness</b>	1, 2, 3, 4, 5									
<b>Heel height</b>	<b>15 +/- 5 mm</b>									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm			
<b>Weight</b>	~135 g	~145 g	~155 g	~180 g	~190 g	~200 g	~215 g			
<b>System height</b>	35 mm				36 mm	40 mm		45 mm		
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	narrow (S)									
<b>Heel height</b>	<b>10 +/- 5 mm</b>									
<b>Size</b>	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm			
<b>Weight</b>	~190 g	~200 g	~220 g	~225 g	~245 g	~270 g	~300 g			
<b>System height</b>	42 mm	43 mm	45 mm	49 mm		52 mm		55 mm		
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	normal (N)									

### Stiffness Chart

Body Weight	Sizes										
	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	
up to 55 kg (121 lbs)	1	1	1	1	1	1	-	-	-	-	
56 – 75 kg (123 – 165 lbs)	2	2	2	2	2	2	2	2	2	2	
76 – 100 kg (167 – 220 lbs)	3	3	3	3	3	3	3	3	3	3	
101 – 125 kg (222 – 275 lbs)	-	-	-	-	4	4	4	4	4	4	
126 – 150 kg (277 – 330 lbs)	-	-	-	-	5	5	5	5	5*	5*	

Slim footshell available    
  Both footshells available    
  Normal footshell available

\*When combining this configuration of the 1C63 Triton Low Profile with the Genium, please contact Ottobock Customer Service.



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## 1C64 Triton Heavy Duty

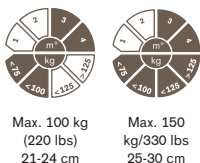
The 1C64 Triton Heavy Duty is based on the outstanding functionality of the 1C60 Triton. The innovative design of the Triton supports a broad range of applications from everyday use to recreational sports. In addition, the corrosion-resistant metal parts of the Triton Heavy Duty make this foot water-resistant and increase the field of application for the Triton. Thanks to the use of a titanium adapter, it is particularly robust and suitable for users with mobility grade 3 and 4 and a body weight of up to 150 kg (330 lbs). The scope of delivery for the Triton Heavy Duty includes the footshell with connection cap, a Spectra-Sock and a transparent (soft) and anthracite (firm) heel wedge.

646D446=GB 647G824  
646D447=GB

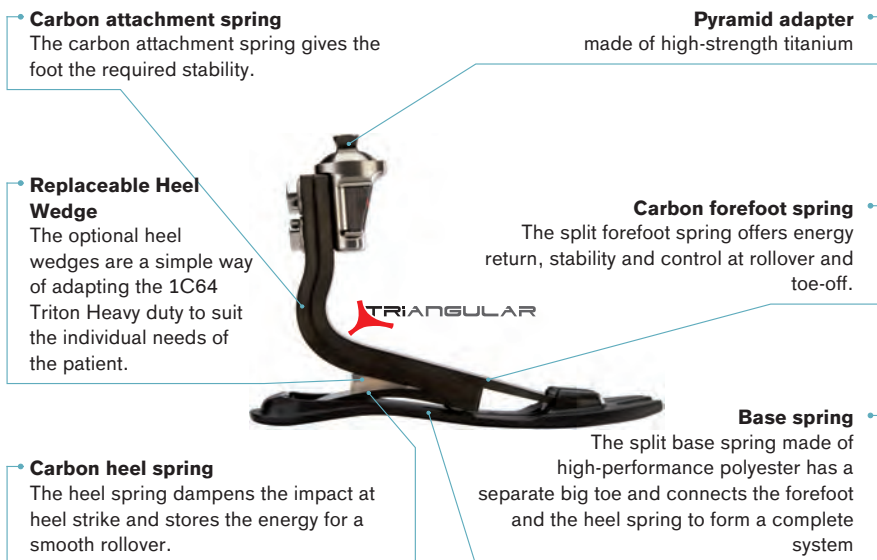
- Please order directly through customer service.
- For information on ordering additional single components, please see the pages 110, 112-114, 117, 120, 122.

Order example

Reference number	=	Side	Size	-	Stiffness	-	P	/	Colour	Shape
1C64	=	L	27	-	5	-	P	/	4	N



<b>Reference number</b>	<b>1C64</b>									
<b>Mobility grade</b>	3 + 4									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm
<b>Weight (without footshell)</b>	~430 g		~485 g		~535 g		~580 g		~615 g	
<b>Stiffness</b>	1, 2, 3, 4, 5									
<b>Heel height</b>	<b>15 +/- 5 mm</b>									
<b>Size</b>	21 cm	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm			
<b>Weight</b>	~135 g	~145 g	~155 g	~180 g	~190 g	~200 g	~215 g			
<b>System height</b>	116 mm	117 mm	118 mm	120 mm	124 mm	125 mm	136 mm			
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	narrow (S)									
<b>Heel height</b>	<b>10 +/- 5 mm</b>									
<b>Size</b>	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm			
<b>Weight</b>	~190 g	~200 g	~220 g	~225 g	~245 g	~270 g	~300 g			
<b>System height</b>	126 mm	129 mm	131 mm	140 mm	141 mm	154 mm	156 mm			
<b>Colour</b>	beige (4), light brown (15)									
<b>Shape</b>	normal (N)									



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## Pylon Feet

Pylon feet store and release energy both in the lower foot complex as well as through deformation of the vertical shank portion of the system. Pylon feet transfer part of the energy-storing deformation to the lower leg. This permits higher elasticity. This design is particularly well suited for recreational sports, without impairing the characteristics for everyday use.

Other advantages include a low distal weight and their narrow, easily finished construction.

Also note that this design is not adjustable in the ankle plane.



### 1E58 Axtion DP

The 1E58 Axtion DP is ideal for active and demanding people. The design and choice of materials offer rotation, shock absorption, moderate multiaxial function and high energy return. The foot is particularly well suited for active users who pursue demanding recreational activities involving running and jumping, such as tennis or other athletic disciplines.

The scope of delivery for the Axtion DP includes the Spectra-Sock:

The footshell of the Axtion DP is available in 2 different colours – beige (4) and light brown (15). The footshell is not included in the scope of delivery, but is listed separately as an accessory (page 89).

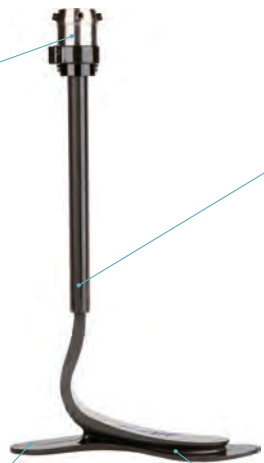
647G478  
646A254=D

• Please order directly through customer service.



<b>Reference number</b>	<b>1E58</b>									
<b>Mobility grade</b>	3 + 4									
<b>Heel height</b>	13 +/- 5 mm									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
<b>Min. system height A pylon</b>	184 mm									
<b>Min. system height B pylon</b>	200 mm									
<b>Max. system height</b>	368 mm									
<b>Weight</b>	360 g	380 g	385 g	390 g	245 g	435 g	445 g	455 g	465 g	475 g
<b>Max. body weight</b>	125 kg									
Weight without footshell										

• **Variety of adapter options**  
to connect to the Ottobock  
modular system as  
accessories.



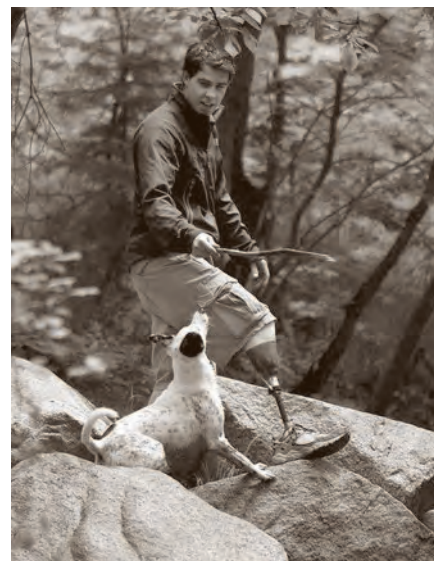
• **S-shaped pylon with oval  
cross-section**

The pylon structure permits  
rotational movement of up to  
8° in all directions, makes it  
easier to initiate the swing  
phase and thereby leads to a  
more natural gait pattern.

• **Carbon-polyurethane  
sandwich structure**

offers high shock absorption  
at heel strike and permits  
moderate multiaxial function  
for a smooth transition to full  
foot contact.

• **Carbon fibre toe plate**  
offers good support and  
energy return at toe-off.



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### Advantage DPII

The 1E50/1E51 Advantage DPII is notable for its good shock absorption, dynamic response, high return of energy and moderate multiaxial function. It is especially suitable for dynamic walkers who engage in very demanding activities such as basketball or skiing during their leisure time. The Advantage DPII is available in the pylon lengths “standard” (38 cm) and “long” (51 cm) (PU sheathing 30 cm). The scope of delivery for the foot includes the Spectra-Sock protective sock. The footshell for the Advantage DPII is available in 2 different colours – beige (4) and light brown (15). The footshell not include the scope of delivery. It is listed separately as an accessory.

• Please order directly through customer service.

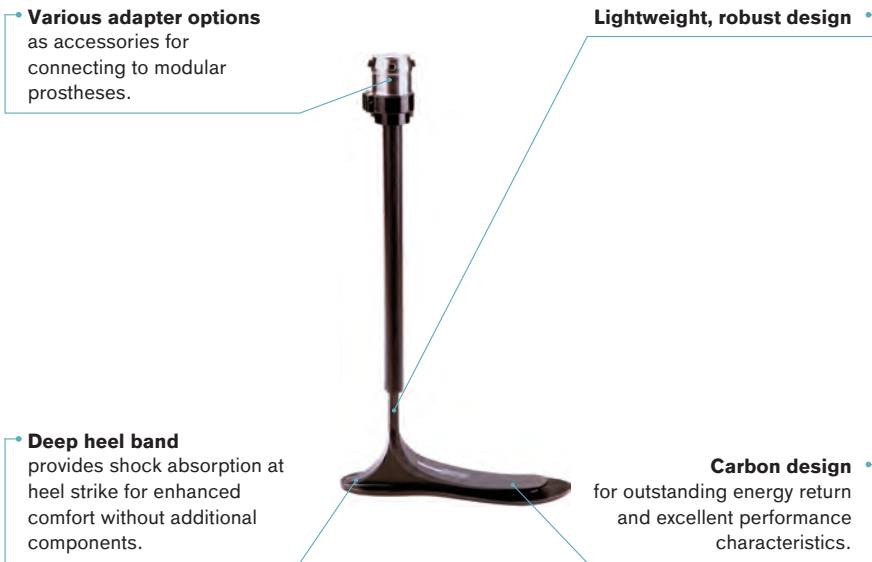
**i** 646S1=6.03D      **i** SL=42P310



≤ 150 kg

<b>Reference number</b>	<b>1E50</b>									
<b>Mobility grade</b>	3 + 4									
<b>Heel height</b>	9 mm									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
<b>Min. system height A pylon</b>	150 mm (standard pylon), 277 mm (long pylon)									
<b>Min. system height B pylon</b>	166 mm (standard pylon), 293 mm (long pylon)									
<b>Max. system height</b>	370 mm (Standard Pylon), 498 mm (Langer Pylon)									
<b>Weight</b>	~320 g	~330 g	~360 g	~380 g	~400 g	~415 g	~435 g	~450 g	~470 g	~485 g
<b>Max. body weight</b>	150 kg									
<b>Reference number</b>	<b>1E51</b>									
<b>Mobility grade</b>	3 + 4									
<b>Heel height</b>	19 mm									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
<b>Min. system height A pylon</b>	141 mm (standard pylon), 268 mm (long pylon)									
<b>Min. system height B pylon</b>	157 mm (standard pylon), 284 mm (long pylon)									
<b>Max. system height</b>	362 mm (Standard Pylon), 489 mm (Langer Pylon)									
<b>Weight</b>	~320 g	~330 g	~360 g	~380 g	~400 g	~415 g	~435 g	~450 g	~470 g	~485 g
<b>Max. body weight</b>	150 kg									

Weight without footshell and adapter



#### Selection Tool for Foot Adapter

In order to accommodate higher loads and flexion moments, pylon widths vary according to body weight, foot size and the level of activity. 2 pylon widths are offered, the A and the B-ylon. "A" stands for the standard width and "B" for a wider version to support higher loads.

In order to facilitate choosing a foot adapter, the different pylon widths are listed in the table below according to the mobility grade and impact load. Our customer service will be pleased to help you select the appropriate adapters and the required components for the footshell.

Sizes	Mobility grade 3		Mobility grade 4		Pylon width
	Moderate activity/ low impact load	Moderate activity/ moderate impact load	Moderate activity/ high impact load	High activity/ high impact load	
up to 25 cm	up to 150 kg (330 lbs)	up to 150 kg (330 lbs)	up to 150 kg (330 lbs)	up to 150 kg (330 lbs)	A
	–	–	–	–	B
26 – 27 cm	up to 122 kg (268 lbs)	up to 122 kg (268 lbs)	up to 114 kg (251 lbs)	up to 102 kg (224 lbs)	A
	from 123 – 150 kg (271 – 330 lbs)	from 123 – 150 kg (271 – 330 lbs)	from 115 – 150 kg (253 – 330 lbs)	from 103 – 150 kg (227 – 330 lbs)	B
28 – 31 cm	up to 122 kg (268 lbs)	up to 108 kg (238 lbs)	up to 102 kg (224 lbs)	up to 102 kg (224 lbs)	A
	from 123 – 150 kg (271 – 330 lbs)	from 109 – 150 kg (240 – 330 lbs)	from 103 – 150 kg (227 – 330 lbs)	from 103 – 150 kg (227 – 330 lbs)	B

Weight without footshell and adapter

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## 1E61 Springlite II

The Springlite II prosthetic foot is custom-made.

Since it has no weight and foot size limits, it is recommended in particular for amputees with a higher than average body weight or foot size beyond the regular spectrum. Modular adapters can be used up to 150 kg (330 lbs). At a body weight that exceeds 150 kg (330 lbs), the foot has to be laminated in directly and should therefore be ordered without a PU sheath.


The foot is available in the pylon lengths "extremely short" (36 cm), "standard" (38 cm) and "long" (51 cm) (PU sheathing 30 cm).

The scope of delivery for the Springlite II includes the Spectra-Sock protective sock. The footshell of the Springlite II is available in 2 different colours – beige (4) and light brown (15). The scope of delivery for the Springlite II does not include the footshell. It is listed separately as an accessory.

Our customer service will be pleased to help you select the appropriate adapters and the required components for the footshell.

<b>Reference number</b>	<b>1E61</b>
<b>Mobility grade</b>	3 + 4
<b>Heel height</b>	13 mm

⦿ Please order the foot directly through customer service.

 SL=42P310

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## Accessories for Springlite II

⦿ for direct lamination

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### 4R420 Posterior Connection Plate (set)

for direct lamination in transtibial fittings

<b>Article number</b>	<b>4R420</b>
<b>Max. body weight</b>	Unlimited

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### 2R176=T T-Adapter

for direct lamination

<b>Article number</b>	<b>2R176=T</b>
<b>Max. body weight</b>	Unlimited

## Accessories for all Pylon Feet

• Please order separately

### 2C5 Footshell

with connection cap

Order example

Reference number	=	Side	Size	/	Colour
2C5	=	L	25	/	4



647G333

Reference number	2C5									
Side	Left (L), Right (R)									
Size	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
Weight	~150 g	~155 g	~195 g	~210 g	~225 g	~235 g	~265 g	~275 g	~310 g	~320 g
Colour	beige (4), light brown (15)									

### 2C100 Footshell Replacement Tool

Article number	2C100
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## Single Components as Replacement Parts

### SL=Spectra-Sock Protective Sock

Article number	SL=Spectra-Sock
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### 2C10 Connection Cap

Order example

Reference number	=	Side	Size range	/	Colour
2C10	=	L	21-22	/	4



Reference number	2C10
Side	Left (L), Right (R)
Size	21 – 22 cm, 23 – 25 cm, 26 – 28 cm, 29 – 31 cm
for	2C5 Footshell
Colour	beige (4), light brown (15)



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## The pylon and its options for connecting to the modular system

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With a higher body weight and activity level as well as increasing foot size, the forces acting on the prosthetic foot increase. With the Axtion DP and Advantage DP II, the pylon is available in 2 widths: the A and B-ylon. "A" is the standard width and "B" a broader version for higher loads. In addition, the C-ylon intended exclusively for direct lamination is available for the Springlite II.

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Various adapters are available for proximal attachment to the modular system:

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- The connection to modular components with pyramid adapter or pyramid receiver is realised with the tube clamp adapter set or the pyramid adapter set. Both sets include the spacer sleeve and glue to join the pylon to the sleeve. If the pylon is shortened too much by accident, the spacer sleeve from the tube clamp adapter set or pyramid adapter set can be replaced with a longer sleeve (length adjustment).
- The connection to modular components with tube clamp is realised with the adapter for transfemoral fittings ( $\varnothing$  30 mm) or the 34 mm spacer sleeve.

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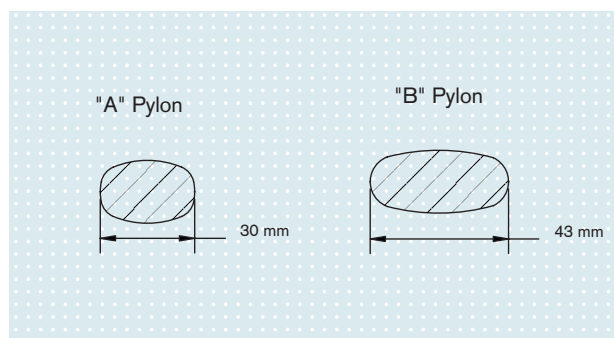
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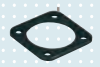
14

- The connection to the socket adapter, socket attachment block or lamination disc is realised with the available socket adapters. Adapters with or without thread can be chosen. The spacer plate is included in the scope of delivery for both.




### Axtion DP, Advantage DP II, Springlite II



## A-Pylon

	Connection to modular components with pyramid adapter/receiver	Connection to modular components with tube clamp	Connection to socket adapter/attachment block
Accessories	 <p><b>4R82=P</b> Tube Clamp Adapter Set Ø 34 mm SH* -12mm</p> <p><b>4R82</b> Tube Clamp Adapter Set Ø 34 mm SH* 33mm</p>	<p>Ø 30 mm      Ø 34 mm</p>  <p><b>2R182=30</b> Transfemoral Fitting SH* 89 mm</p> <p><b>2R183</b> Spacer sleeve, 50 mm SH* 6 mm</p>	<p>4-hole Euro M6      4-hole Euro M6 without thread</p>  <p><b>4R431=1</b> Socket Adapter SH* 5 mm</p> <p><b>4R431=2</b> Socket Adapter SH* 5 mm</p>
	<p>Ø 34 mm</p>  <p><b>2R183</b> Spacer sleeve, 50 mm SH* 6 mm</p> <p><b>2R183=L</b> Length adjustment, 120 mm SH* 79 mm</p>		<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Single components</p>  <p><b>4R415</b> Spacer Plate, 4-hole, height 3 mm SH* 3 mm</p>

## B-Pylon

	Connection to modular components with tube clamp	Connection to socket adapter/attachment block
Accessories	<p>Ø 30 mm      Ø 34 mm</p>  <p><b>2R185=30</b> Transfemoral Fitting SH* 89 mm</p> <p><b>2R185=34</b> Transfemoral Fitting SH* 89 mm</p>	<p>4-hole Euro M6      4-hole Euro M6 without thread</p>  <p><b>4R432=1</b> Socket Adapter SH* 3 mm</p> <p><b>4R432=2</b> Socket Adapter SH* 3 mm</p>
		<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Single components</p>  <p><b>4R415</b> Spacer Plate, 4-hole, height 3 mm SH* 3 mm</p>

\* SH = system height

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### Chopart Footplate

The Chopart footplate features an extremely low clearance and is suitable for partial foot amputations as well as amputations according to Chopart, Pirogoff or Syme. The footplate is connected to the socket using the Bonding kit (see accessories).

All sizes of the footplate are available in 3 different heel heights: 0 mm, 9 mm, 19 mm. The footshell for the Chopart footplate is available in 2 different colours – beige (4) and light brown (15). The footshell is not included in the scope of delivery. It must be ordered separately as an accessory.

• Please order directly through customer service.

SL=42P303



≤ 136 kg

<b>Reference number</b>	<b>1E80</b>									
<b>Mobility grade</b>	3 + 4									
<b>Heel height</b>	0 mm									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
<b>Structural height</b>	17 mm		18 mm	19 mm	20 mm	21 mm	22 mm	23 mm	24 mm	
<b>Weight (without footshell)</b>	~115 g	~125 g	~130 g	~140 g	~145 g	~155 g	~160 g	~170 g	~175 g	~185 g
<b>Max. body weight</b>	136 kg									

<b>Reference number</b>	<b>1E81</b>									
<b>Mobility grade</b>	3 + 4									
<b>Heel height</b>	9 mm									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
<b>Structural height</b>	17 mm		18 mm	19 mm	20 mm	21 mm	22 mm	23 mm	24 mm	
<b>Weight (without footshell)</b>	~115 g	~125 g	~130 g	~140 g	~145 g	~155 g	~160 g	~170 g	~175 g	~185 g
<b>Max. body weight</b>	136 kg									

<b>Reference number</b>	<b>1E82</b>									
<b>Mobility grade</b>	3 + 4									
<b>Heel height</b>	19 mm									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
<b>Structural height</b>	17 mm		18 mm	19 mm	20 mm	21 mm	22 mm	23 mm	24 mm	
<b>Weight (without footshell)</b>	~115 g	~125 g	~130 g	~140 g	~145 g	~155 g	~160 g	~170 g	~175 g	~185 g
<b>Max. body weight</b>	136 kg									



**Practical recommendation:**

- The prosthetic foot is designed for use with a footshell. Without a footshell, the individual foot is shorter than the size indicates.

## Accessories

• Please order separately

### SL=P078 Chopart Bonding Kit

Contains 636W80 Primer

<b>Article number</b>	<b>SL=P078</b>
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### SL=P071 Fill Footshell Foam Kit

<b>Article number</b>	<b>SL=P071</b>
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### 2C5 Footshell

with connection cap

Order example

Reference number	=	Side	Size	/	Colour
<b>2C5</b>	=	L	25	/	4



647G333

Reference number	<b>2C5</b>									
<b>Side</b>	Left (L), Right (R)									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
<b>Weight</b>	~150 g	~155 g	~195 g	~210 g	~225 g	~235 g	~265 g	~275 g	~310 g	~320 g
<b>Colour</b>	beige (4), light brown (15)									

### 2C10 Connection Cap

bonded to the foam cover and then pressed onto the edge of the formed foot component.

Order example

Reference number	=	Side	Size range	/	Colour
<b>2C10</b>	=	L	21-22	/	4



Reference number	<b>2C10</b>			
<b>Side</b>	Left (L), Right (R)			
<b>Size</b>	21 – 22 cm	23 – 25 cm	26 – 28 cm	29 – 31 cm
<b>for</b>	2C3 Footshell 1D35			
<b>for</b>	2C5 Footshell			
<b>Colour</b>	beige (4), light brown (15)			

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## 1C20 ProSymes

The 1C20 ProSymes is a prosthetic foot designed for the fitting of Symes amputations and, in some cases, for Pirogoff amputations with an effective alignment and application technique.

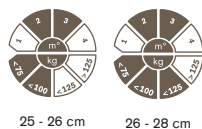
The adjustment concept permits correction of the foot position during trial fitting and after finishing the prosthesis. It systemises and facilitates the fitting and offers reproducible adjustment possibilities. With its low clearance of only 43 mm (including lamination anchor and footshell), the ProSymes is the ideal solution for Symes amputees, who require a dynamic foot with outstanding reliability and performance. It is ideally suited for walking on various types of surfaces and for recreational sports.

The scope of delivery for the ProSymes includes the lamination anchor, lamination cover, spacer plate, footshell and application video (CD-ROM).

- 646S1=15.04GB
- 647G174
- 646DV7
- 646V87=GB

Order example

Reference number	=	Side	Size	-	Stiffness	-	A	/	Colour
<b>1C20</b>	=	L	25	-	1	-	A	/	4



Reference number	<b>1C20</b>			
<b>Mobility grade</b>	2 + 3			
<b>Heel height</b>	10 +/- 5 mm			
<b>Side</b>	Left (L), Right (R)			
<b>Size</b>	25 cm	26 cm	27 cm	28 cm
<b>Clearance (with spacer plate)</b>	52 mm			
<b>Clearance (without spacer plate)</b>	43 mm			
<b>Weight (with lamination anchor, without footshell)</b>	~ 465 g	~ 475 g	~ 490 g	~ 495 g
<b>Colour</b>	beige (4), light brown (15)			
<b>Max. body weight</b>	100 kg			

### STIFFNESSCHART

Size	25 cm	26 cm	27 cm	28 cm
<b>Body weight</b>				
<b>up to 100 kg (220 lbs)</b>	1	2	2	2
<b>101 - 125 kg (222 lbs - 275 lbs)</b>	—	3	3	3

**Clearance of only 43 mm**  
including lamination anchor and footshell.

**Spherical adjustment possibilities**  
between the foot and socket for reproducible, continuous adjustments.

**Dynamic heel element**  
for shock absorption on heel strike.

**Double spring element**  
with carbon-polyurethane sandwich structure for a dynamic gait pattern.

## Single Components as Replacement Parts

### 2G120 Lamination Anchor

with lamination cover

<b>Article number</b>	<b>2G120</b>
-----------------------	--------------

### 2Z120 Screw Set

<b>Article number</b>	<b>2Z120</b>
-----------------------	--------------

### 2Z328 Setting Aid with Screw

<b>Article number</b>	<b>2Z328</b>
-----------------------	--------------

### 2C2 Footshell

Order example

Reference number	=	Side	Size	/	Colour
<b>2C2</b>	=	L	25	/	4

Reference number	<b>2C2</b>			
<b>Side</b>	Left (L), Right (R)			
<b>Size</b>	25 cm	26 cm	27 cm	28 cm
<b>Weight</b>	190 g	230 g	235 g	255 g
<b>Colour</b>	beige (4), light brown (15)			

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## 1E57 Lo Rider

The 1E57 Lo Rider is a dynamic foot for Symes amputees. In cases with a very low clearance, the foot can be ordered without pyramid adapter (as an option) and used in conjunction with the XO coupler. The scope of delivery for the Lo Rider includes the Spectra-Sock.

The footshell for the Lo Rider is available in 2 different colours – beige (4) and light brown (15). The scope of delivery for the Lo Rider does not include the footshell. It is listed separately as an accessory.

- Please order directly through customer service.

647G338=03



$\le 136$  kg (299 lbs)

<b>Reference number</b>	<b>1E57</b>									
<b>Mobility grade</b>	3 + 4									
<b>Heel height</b>	9 +/- 5 mm									
<b>Size</b>	22 cm	23 cm	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
<b>System height</b>	18 mm									
<b>Weight</b>	~240 g	~255 g	~270 g	~280 g	~290 g	~305 g	~320 g	~330 g	~345 g	~355 g
<b>Max. body weight MG 3</b>	136 kg									
<b>Max. body weight MG 4</b>	100 kg									

Weight without footshell



### Practical recommendation:

- The ankle moments of the Lo Rider cause heavy strain on the adjacent prosthetic components. Therefore, it is necessary to use adapters of the next higher weight class below the knee joint (e.g. for a patient with a body weight of 90 kg (198 lbs): use adapters rated up to 125 kg (275 lbs)). The prosthetic foot is designed for use with a footshell. Without a footshell, the individual foot is shorter than the size indicates.

## Accessories

- Please order separately



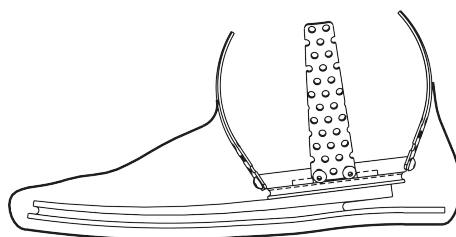
### XO Coupler

The XO coupler is used for the exoskeletal connection of Springlite feet with an integrated pyramid. It allows for a low structural height.

Article number	SL=LR-XOCS-M6	SL=LR-XOCL-M6	SL=LR-XOCL-5/16
<b>Diameter</b>	73 mm	85 mm	85 mm

- Adapter selection is based on the mobility grade and body weight, and is done automatically by customer service.

Please use a 1/4" Allen key.



## 2C5 Footshell

with connection cap

Order example

Reference number	=	Side	Size	/	Colour
2C5	=	L	25	/	4

Reference number	2C5							
Side	Left (L), Right (R)							
Size	24 cm	25 cm	26 cm	27 cm	28 cm	29 cm	30 cm	31 cm
Weight	~195 g	~210 g	~225 g	~235 g	~265 g	~275 g	~310 g	~320 g
Colour	beige (4), light brown (15)							



 647G333

• For the sizes 22 and 23 cm, please order the SL=M/F footshell.

## Single Components as Replacement Parts

### SL=Spectra-Sock Protective Sock

Article number	SL=Spectra-Sock



### 2C10 Connection Cap

bonded to the foam cover and then pressed onto the edge of the formed foot component.

Order example

Reference number	=	Side	Size range	/	Colour
2C10	=	L	21-22	/	4

Reference number	2C10	
Side	Left (L), Right (R)	
Size	21 – 22 cm, 23 – 25 cm, 26 – 28 cm, 29 – 31 cm	
for	2C5 Footshell	
Colour	beige (4), light brown (15)	



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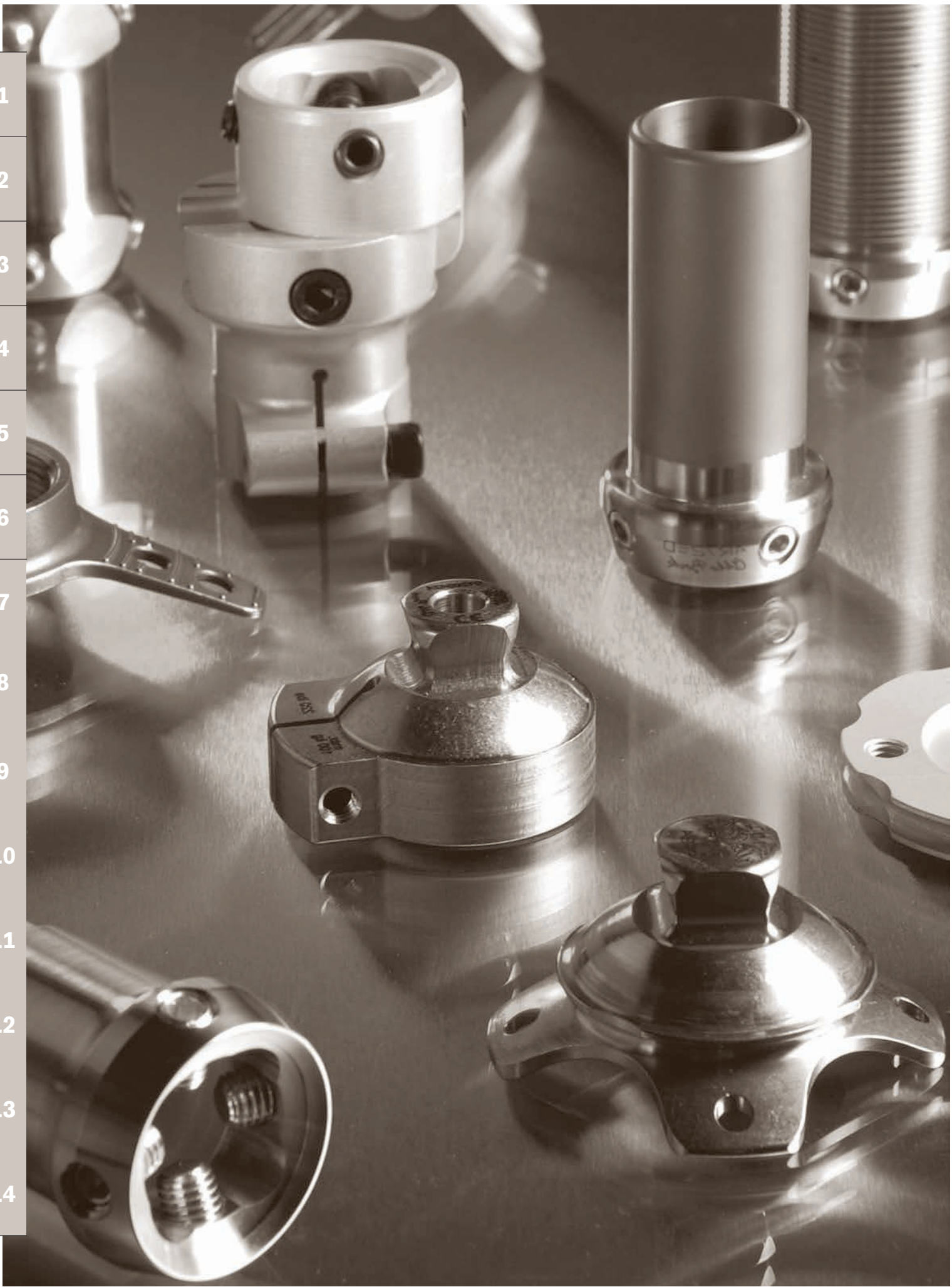
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## Modular Adapters

The success of the modular prosthetic system is based on the adjustable connecting element, which was patented by Ottobock in 1969 and is now used worldwide. A pyramid receiver with 4 set screws encompasses the pyramid adapter. Alignment adjustments in terms of angle changes can be realised using the set screws. Double, eccentric and sliding adapters offer even more adjustment options. Modular adapters connect the following functional units: the prosthetic foot, knee joint, hip joint and socket. Tube adapters of various lengths and diameters with tube clamp adapters create connections that can be adjusted in length, e.g. between the prosthetic foot and knee joint. The range of lamination anchors, socket adapters and socket attachment blocks is adapted to the materials and design of the prosthetic socket, forming the transition to the distal section.

Functional adapters such as shock absorbers as well as rotation and torsion adapters complement the portfolio. Based on biomechanical insights, they were designed to facilitate the performance of everyday activities. They also enhance wearer comfort for the user of the prosthesis.

### **Ottobock quality adapters – guaranteed good quality!**

You can rely on the good quality of our adapters! We guarantee the good quality of our standard adapters with a warranty from the date of purchase. Since the warranty terms and conditions differ between countries, please contact your local Ottobock branch for more information.



**Caution when connecting to carbon spring feet:**

The ankle moments which occur with the Lo Rider and Axtion carbon spring feet put a heavy strain on the adjoining prosthetic components. These feet therefore have to be assembled with structural components of the next higher weight category below the knee joint.

Example: an Axtion for a prosthesis wearer weighing 90 kg (198 lbs) must be equipped with an adapter for a body weight of up to 125 kg (275 lbs).

**Caution with transtibial prostheses:**

- A Ø 34 mm tube adapter and a Ø 34 mm tube clamp adapter are recommended to provide maximum stability of transtibial prostheses, especially when elevated strain is expected due to higher activity levels, longer foot or transtibial lever arms or similar factors.



647H90=1

### Tube Adapter

The tube adapters are available in 2 different lengths.



Article number	2R37	2R38
Diameter	30 mm	
Material	Titanium	
Min. system height	97 mm	
Max. system height	232 mm	472 mm
Weight	160 g	275 g
Max. body weight	100 kg	

- For higher loads in transtibial prostheses, a tube adapter with Ø 34 mm should be used (e.g. 2R57/2R76).



647H96

### Tube Adapter

The tube adapters are available in 2 different lengths.



Article number	2R50	2R49
Diameter	30 mm	
Material	Aluminum	
Min. system height	97 mm	
Max. system height	232 mm	432 mm
Weight	155 g	240 g
Max. body weight	100 kg	

- For higher loads, we recommend using titanium components (2R37/2R38).
- For higher loads in transtibial prostheses, a tube adapter with Ø 34 mm should be used (e.g. 2R57/2R76).

## Tube Adapter

The tube adapters are available in 2 different lengths.



Article number	2R2	2R3
Diameter	30 mm	
Material	Stainless steel	
Min. system height	97 mm	
Max. system height	232 mm	472 mm
Weight	195 g	315 g
Max. body weight	100 kg	

- For higher loads in transtibial prostheses, a tube adapter with  $\varnothing$  34 mm should be used (e.g. 2R57/2R76).



647H90=1

## 2R38=5 30 mm pylon with titanium clamp adapter



Article number	2R38=5
Diameter	30 mm
Material	Titanium
Min. system height	98 mm
Max. system height	474 mm
Weight	275 g
Angling	5 °
Max. body weight	100 kg



647H90=1



## 2R38=10 Tube Adapter, angled 10°



Article number	2R38=10
Diameter	30 mm
Material	Titanium
Min. system height	98 mm
Max. system height	474 mm
Weight	275 g
Angling	10 °
Max. body weight	100 kg



647H90=1



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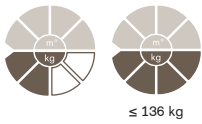
## Single Components as Replacement Parts

Article number	2R2	2R3	2R37	2R38	2R38=10	2R49	2R50
<b>506G3=M8x12-V</b> Grub Screw	▲	▲	▲	▲	▲		
<b>506G3=M8x14</b> Set Screw						▲	▲

▲ Minimum order quantity required

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## Tube Clamp Adapter



Article number	4R52	4R52=1
Diameter	30 mm	
Material	Titanium	
System height	33 mm	
Weight	75 g	80 g
Max. body weight	100 kg	136 kg

- For higher loads in transtibial prostheses, a tube clamp adapter with  $\varnothing$  34 mm should be used (e.g. 4R82/4R91).



647H90  
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647G872

## Tube Clamp Adapter



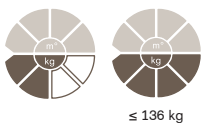
Article number	4R69	4R69=5
Diameter	30 mm	
Material	Aluminum	
System height	33 mm	
Weight	75 g	
Max. body weight	100 kg	

- For higher loads, we recommend using titanium components (4R52).
- For higher loads in transtibial prostheses, a tube clamp adapter with  $\varnothing$  34 mm should be used (e.g. 4R82/4R91).



647H96

## Tube Clamp Adapter



Article number	4R21	4R21=1	4R21=5
Diameter	30 mm		
Material	Stainless steel		
System height	33 mm	48 mm	
Weight	130 g	125 g	130 g
Max. body weight	100 kg	136 kg	

- For higher loads in transtibial prostheses, a tube clamp adapter with  $\varnothing$  34 mm should be used (e.g. 4R82/4R91).



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647H129



### 4R103 Tube Clamp Adapter, movable

The adapter allows additional sliding adjustments between the prosthetic socket and tube adapter, even while the prosthesis is worn. These fine tunings allow a parallel shifting of the distal portion regardless of the adjustment angle set by the pyramid adapters. The prosthetic foot can be shifted medially or laterally in the frontal plane, or dorsally or ventrally in the sagittal plane.



≤ 85 kg

<b>Article number</b>	<b>4R103</b>
<b>Diameter</b>	30 mm
<b>Material</b>	Titanium
<b>System height</b>	51 mm
<b>Weight</b>	185 g
<b>Displacement</b>	+/- 11 mm
<b>Max. body weight</b>	85 kg

- For higher loads in transtibial prostheses, a tube clamp adapter with Ø 34 mm should be used (e.g. 4R88).



647H66



### 4R98 Tube Clamp Adapter, movable

The adapter allows additional sliding adjustments between the prosthetic socket and tube adapter, even while the prosthesis is worn. These fine tunings allow a parallel shifting of the distal portion regardless of the adjustment angle set by the pyramid adapters. The prosthetic foot can be shifted medially or laterally in the frontal plane, or dorsally or ventrally in the sagittal plane.



<b>Article number</b>	<b>4R98</b>
<b>Diameter</b>	30 mm
<b>Material</b>	Aluminum
<b>System height</b>	57 mm
<b>Weight</b>	150 g
<b>Displacement</b>	+/- 9 mm
<b>Max. body weight</b>	75 kg

- For higher loads in transtibial prostheses, a tube clamp adapter with Ø 34 mm should be used (e.g. 4R88).

## 4R56 Tube Clamp Adapter, with 10°, 20° or 30° angle

The adapter is available with 3 different angles.

In prosthetic fittings with 7E5, 7E4 or 7E7 Hip Joints, it forms the adjustable connection between the pyramid adapter of the knee joint or the 4R57 Rotation Adapter and the hip joint tube.

According to the direction of the tube, it forms an angle of 10°, 20° or 30° with the hip joint offset to the front.

In prosthetic fittings with Helix<sup>3D</sup> Hip Joint System, the adapter is intended for the adjustable proximal connection of the hip joint to the 2R30 Thigh Tube and for the adjustable distal connection of the 2R30 Thigh Tube to the pyramid adapter of the knee joint or the 4R57 Rotation Adapter.



647H9



Article number	4R56	4R56=1	4R56=2
Diameter	30 mm		
Material	Titanium		
System height	34 mm		35 mm
Weight	85 g		100 g
Angling	10 °	20 °	30 °
Max. body weight	100 kg		

- The 4R56=1/=2 Tube Clamp Adapter with a 20°/30° angle is recommended for larger pelvic sockets. When using 'HD' knee joints, please consider the 10° angle of the pyramid adapter.

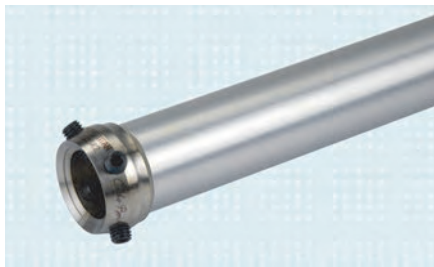
## Single Components as Replacement Parts

Article number	4R21	4R52	4R56	4R69	4R98	4R103
4D4 Single Component Pack	●	●	●			●
501Z2=M6x25 Cap Screw				▲	▲	
501Z2=M6x35 Cap Screw					▲	
501Z16 Clamping Screw						▲
506G3=M5x8 Set Screw						▲
506G3=M8x12-V Grub Screw	▲	▲	▲			
506G3=M8x14 Set Screw				▲		
506G3=M8x16 Set Screw					▲	▲

▲ Minimum order quantity required      ● Single Component Pack



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### Tube Adapter

The tube adapters are available in 2 different lengths.



≤ 150 kg

Article number	2R57	2R58
Diameter	34 mm	
Material	Titanium	
Min. system height	77 mm	
Max. system height	282 mm	472 mm
Weight	220 g	330 g
Max. body weight	150 kg	



647G180=1

### Tube Adapter

The tube adapters are available in 2 different lengths.



≤ 150 kg

Article number	2R76	2R77
Diameter	34 mm	
Material	Stainless steel	
Min. system height	77 mm	
Max. system height	282 mm	472 mm
Weight	260 g	370 g
Max. body weight	150 kg	

## Single Components as Replacement Parts

Article number	2R57	2R58	2R76	2R77
506G3=M8x14 Set Screw	▲	▲		▲

▲ Minimum order quantity required

### 4R82 Tube Clamp Adapter



≤ 150 kg

<b>Article number</b>	<b>4R82</b>
<b>Diameter</b>	34 mm
<b>Material</b>	Titanium
<b>System height</b>	33 mm
<b>Weight</b>	95 g
<b>Max. body weight</b>	150 kg



647G180

### 4R91 Tube Clamp Adapter



≤ 150 kg

<b>Article number</b>	<b>4R91</b>
<b>Diameter</b>	34 mm
<b>Material</b>	Stainless steel
<b>System height</b>	33 mm
<b>Weight</b>	140 g
<b>Max. body weight</b>	150 kg



647G180

### 4R82=P Tube Clamp Adapter



≤ 150 kg

<b>Article number</b>	<b>4R82=P</b>
<b>Diameter</b>	34 mm
<b>Material</b>	Titanium
<b>System height</b>	-12 mm
<b>Weight</b>	90 g
<b>Max. body weight</b>	150 kg



647G180

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647H48

### 4R88 Tube Clamp Adapter, movable

The adapter allows additional sliding adjustments between the prosthetic socket and tube adapter, even while the prosthesis is worn. These fine tunings allow a parallel shifting of the distal portion regardless of the adjustment angle set by the pyramid adapters. The prosthetic foot can be shifted medially or laterally in the frontal plane, or dorsally or ventrally in the sagittal plane.



<b>Article number</b>	<b>4R88</b>
<b>Diameter</b>	34 mm
<b>Material</b>	Titanium
<b>System height</b>	51 mm
<b>Weight</b>	185 g
<b>Displacement</b>	+/- 11
<b>Max. body weight</b>	100 kg



647G748

### 4R156 Tube Clamp Adapter, with 10°, 20° or 30° angle

The adapter is available with 3 different angles. Due to its high load-bearing capacity, it is preferable for use in combination with the 7E9 Hip Joint. Here the adapter is intended for the adjustable proximal connection of the hip joint to the 2R36 Thigh Tube and for the adjustable distal connection of the 2R36 Thigh Tube to the pyramid adapter of the knee joint or the 4R57 Rotation Adapter.



<b>Article number</b>	<b>4R156</b>	<b>4R156=1</b>	<b>4R156=2</b>
<b>Diameter</b>	34 mm		
<b>Material</b>	Titanium		
<b>System height</b>	36 mm	37 mm	38 mm
<b>Weight</b>	140 g	165 g	175 g
<b>Angling</b>	10 °	20 °	30 °
<b>Max. body weight</b>	150 kg		

- The 4R156=1/=2 Tube Clamp Adapter with a 20°/30° angle is recommended for larger pelvic sockets. When using '=HD' knee joints, please consider the 10° angle of the pyramid adapter.

## Single Components as Replacement Parts

Article number/Reference number	4R82	4R82=P	4R88	4R91	4R156
<b>4D4</b> Single Component Pack	●	●	●	●	
<b>4D28</b> Single Component Pack					●
<b>4X28=3</b> Plastic Ring					■
<b>501Z16</b> Clamping Screw			▲		
<b>506G3=M8x12-V</b> Grub Screw				▲	▲
<b>506G3=M8x14</b> Set Screw	▲		▲		

▲ Minimum order quantity required    ● Single Component Pack    ■ Can be ordered individually

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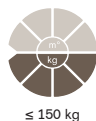
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647H34

### 4R72 Double Adapter



≤ 150 kg



Article number	4R72=32	4R72=45	4R72=60	4R72=75
Material	Titanium			
System height	69 mm	82 mm	97 mm	112 mm
Weight	85 g	95 g	110 g	125 g
Max. body weight	150 kg			

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647H137



### 4R104 Double Adapter, movable

The adapter connects 2 prosthetic components with pyramid adapter and also allows a translation adjustment medially or laterally in the frontal plane, or dorsally or ventrally in the sagittal plane.



≤ 100 kg



Article number	4R104=60	4R104=75
Material	Titanium	
System height	97 mm	112 mm
Weight	215 g	225 g
Displacement	+/- 11 mm	
Max. body weight	100 kg	

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647G300

### Double Adapter



≤ 150 kg



Article number	4R76	4R78
Material	Stainless steel	
System height	-32 mm	-30 mm
Weight	95 g	115 g
Max. body weight	150 kg	

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## 4R84 Double Adapter



≤ 150 kg

<b>Article number</b>	<b>4R84</b>
<b>Material</b>	Titanium
<b>System height</b>	36 mm
<b>Weight</b>	115 g
<b>Max. body weight</b>	150 kg



647H41

## Connection Adapter



≤ 150 kg



	<b>4R84=D</b>	<b>4R84=D-62</b>
<b>Article number</b>	<b>4R84=D</b>	<b>4R84=D-62</b>
<b>Diameter</b>	30 mm	
<b>Material</b>	Titanium	Stainless steel
<b>System height</b>	19 mm	
<b>Min. system height</b>		20 mm
<b>Max. system height</b>		48 mm
<b>Weight</b>	65 g	145 g
<b>Max. body weight</b>	150 kg	



647H436



≤ 150 kg



	<b>4R72=D</b>	<b>4R72=D-62</b>	<b>4R75=D-70</b>
<b>Article number</b>	<b>4R72=D</b>	<b>4R72=D-62</b>	<b>4R75=D-70</b>
<b>Diameter</b>	30 mm		34 mm
<b>Material</b>	Titanium	Stainless steel	
<b>System height</b>	66 mm		
<b>Min. system height</b>		67 mm	76 mm
<b>Max. system height</b>		96 mm	106 mm
<b>Weight</b>	70 g	150 g	170 g
<b>Max. body weight</b>	150 kg		



647H436