



## Leg 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 during everyday activities.

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





The Otto Bock modular system assists children from 2 years and older as they grow up and allows a smooth transition into the adult system. Children 13 years and older (corresponding roughly to a body weight over 45 kg, body height 145 cm and foot size 21) can use knee joints such as the 3R106 or 3R95=1.

Due to the extreme stresses that children place on the components, regular inspections and servicing by the prosthetist are necessary at predetermined intervals. We recommend that the components be inspected every 3 months. The components should be tested to ensure proper functioning, and the tube adaptors should be checked for deformation or damage.

## SACH\* Foot for Children



The 1S30 SACH\* Foot for Children features a 2-piece construction and is especially suitable for small children who need a stable foot. The sole of the foot is exchangeable. Its functional properties are ensured through a reliable combination of contoured core material and Pedilan foam. The foot is designed for use with modular or exoskeletal prostheses and can be combined with the 2R40=2 Modular Adapter or 2K36=17 Shaped Ankle Part.

Order no. (order example):

Article no.	=	Side	Size
<b>1S30</b>	=	<b>L</b>	<b>12</b>

Article no.	1S30	
Heel height	10 +/- 5 mm	
Sides	left (L), right (R)	
Sizes	12 cm	13 cm
System height with adapter	37 mm	40 mm
Weight**	~ 90 g	~ 100 g
Max. body weight	35 kg	
Color	beige / white	



## Single components

## replacement parts

### 2Z25 Pedilan® Sole with Heel Wedge for 1S30

Order no.	2Z25=L12	2Z25=R12	2Z25=L13	2Z25=R13
Sides	left	right	left	right
Sizes	12 cm		13 cm	

► See page 7 for accessories for modular and exoskeletal prostheses.

\* SACH=Solid Ankle Cushion Heel

\*\* without adapter



## Otto Bock SACH\* Foot for Children



The 1K30 SACH\* Foot for Children is a robust prosthetic foot specially designed to meet the needs of young prosthetic limb users. It features a natural form with a smooth surface and fully shaped toes. Its functional properties are ensured through a reliable combination of contoured core material and Peditan foam. The foot is designed for use with modular or exoskeletal prostheses and can be combined with a modular adapter or shaped ankle part.

Order no. (order example):

Article no.	=	Side	Size
<b>1K30</b>	=	<b>L</b>	<b>16</b>

Article no.	1K30							
Heel height	5 +/- 5 mm							
Sides	left (L), right (R)							
Sizes	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**	~ 95 g	~ 115 g	~ 125 g	~ 145 g	~ 175 g	~ 180 g	~ 200 g	~ 220 g
Max. body weight	35 kg				45 kg			
Color	beige							

## Otto Bock Dynamic Foot for Children



The 1K10 is a robust dynamic foot with a natural shape, smooth surface, and fully shaped toes. The foot features a contoured core and employs foams with a variety of characteristics. As a result, it offers a pleasant heel strike as well as easier roll-off and better energy return than the SACH\* Foot. The 1K10 is designed for use with modular or exoskeletal prostheses and can be combined with a modular adapter or shaped ankle part.

Order no. (order example):

Article no.	=	Side	Size
<b>1K10</b>	=	<b>L</b>	<b>16</b>

Article no.	1K10							
Heel height	5 +/- 5 mm							
Sides	left (L), right (R)							
Sizes	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**	~120 g	~130 g	~140 g	~155 g	~180 g	~210 g	~230 g	~255 g
Max. body weight	35 kg				45 kg			
Color	beige							

\* SACH=Solid Ankle Cushion Heel

\*\* without adapter


## Accessories for modular prostheses

Have to be ordered separately.



### Foot Adapter with Screw Connection

With 636W28 Otto Bock Two-Part Adhesive

 647G97

For all 1S\* and 1K\* feet for children, sizes 12 – 17

Order no.	2R40=2
Material	Aluminum / Steel
Weight	45 g
Max. body weight	35 kg

For all 1S\* and 1K\* feet for children, sizes 18 – 21

Order no.	2R40=1
Material	Aluminum / Steel
Weight	80 g
Max. body weight	45 kg

► The system height has already been taken into account for this foot.

## Single components

replacement parts

### Screw Connections for 2R40

Order no.	2D6=M6	2D6=M8
For	2R40=2	2R40=1
Scope of Delivery	1 cap screw 1 flat washer 1 serrated lock washer	1 cap screw 1 flat washer 1 serrated lock washer

## Accessories for exoskeletal prostheses

Have to be ordered separately.



### Shaped Ankle Part

Without bushings, used for both left and right applications

Order no.	2K36=17	2K36=21
For size range	12 – 17 cm	18 – 21 cm




### Screw Connection for 2K36

Order no.	2Z22=M6	2Z22=M8x70
For	2K36=17	2K36=21
Scope of Delivery	1 bolt adapter 1 cap screw 1 flat washer 1 serrated lock washer	1 bolt adapter 1 cap screw 1 flat washer 1 serrated lock washer

## Springlite® II Pediatric



The 1E66 Springlite® II Pediatric is a carbon prosthetic foot that offers high energy return during everyday activities and recreational sports.

 SL=42P310

The foot is a custom fabrication.

► Please order it directly from our customer service.

Article no.	1E66								
Heel height	6 mm								
Sizes	13 cm	14 cm	15 cm	16 cm	17 cm	18 cm	19 cm	20 cm	21 cm
Weight*	~240 g	~243 g	~245 g	~248 g	~250 g	~253 g	~255 g	~258 g	~260 g
Min. system height	109 mm								
Max. system height	380 mm								
Max. body weight	50 kg								



\* without cosmetic foot cover and adapter

## Connection options for the Modular System



\* SH = system height

- 2R182=22: Combination with 3R39 and 3R65.  
Cannot be used with the Otto Bock Children System. Please use components that comply with the MOBIS® system.

### Accessories

Have to be ordered separately.



### 2E3 Footshell for Children

Order no. (order example):

Article no.	=	Side	Size
2E3	=	L	14

Article no.	2E3								
Sides	left (L), right (R)								
Sizes	13 cm	14 cm	15 cm	16 cm	17 cm	18 cm	19 cm	20 cm	21 cm
Weight	~60 g	~65 g	~70 g	~80 g	~90 g	~95 g	~100 g	~110 g	~120 g
Color	beige								



## SL Profile for Children



The 1E79 SL Profile for Children is a lightweight carbon foot designed to fit Symes-level amputations. The SL Profile comes with an adult pyramid for integration with the Otto Bock modular system based on MOBIS®.

647G338=04

The foot is a custom fabrication.

► Please order it directly from our customer service.

Article no.	1E79		
Heel height	6 mm		
Sizes	19 cm	20 cm	21 cm
System height	6 mm	6 mm	6 mm
Weight*	~ 155 g	~ 160 g	~ 165 g
Max. body weight	50 kg		

► Cannot be used with the Otto Bock Children System. Please use components that comply with the MOBIS® system.

## Chopart Footplate for Children



The 1E87 Chopart Footplate for Children is a carbon foot with a very low installation height for fitting Chopart or partial foot deficiencies. A complete kit for connecting the footplate directly to the prosthetic socket is available as an accessory.

SL=42P303

The foot is a custom fabrication.

► Please order it directly from our customer service.

Article no.	1E87								
Heel height	6 mm								
Sizes	13 cm	14 cm	15 cm	16 cm	17 cm	18 cm	19 cm	20 cm	21 cm
Installation height	15 mm	15 mm	15 mm	16 mm	16 mm	16 mm	17 mm	17 mm	17 mm
Weight*	~ 20 g	~ 21 g	~ 22 g	~ 23 g	~ 24 g	~ 25 g	~ 26 g	~ 27 g	~ 28 g
Max. body weight	50 kg								

\* without cosmetic foot cover

## Accessories

Have to be ordered separately.



### 2E3 Footshell for Children

Order no. (order example):

Article no.	=	Side	Size
<b>2E3</b>	=	<b>L</b>	<b>14</b>

Article no.	2E3								
<b>Sides</b>	left (L), right (R)								
<b>Sizes</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>Color</b>	beige								



### SL=P078 Chopart Bonding Kit

Including primer 636W80



### SL=P071 Footshell Foam Kit

Soft, flexible foam for filling the footshell (optional)

## Tube Adapter

Aluminum



The 2R41=1 Tube Adapter is designed for use with the 2R40=1 Foot Adapter and is only suitable for use below the prosthetic knee joint or in a transtibial prosthesis. (Not intended for use above the prosthetic knee joint.)

Order no.	2R41=1
Diameter	22 mm
Weight	140 g
Min. system height	87 mm
Max. system height	330 mm
Material	Aluminum
Max. body weight	45 kg

647G97

## Tube Adapter

Aluminum



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

Order no.	2R41=2
Diameter	22 mm
Weight	125 g
Min. system height	85 mm
Max. system height	288 mm
Material	Aluminum
Max. body weight	35 kg

647G97

## Tube Adapter, Angled at 13°

Aluminum



The 2R48 Angled Tube Adapter is designed for use with the 7E8 Modular Hip Joint for children.

Order no.	2R48
Diameter	22 mm
Weight	105 g
Min. system height	87 mm
Max. system height	229 mm
Material	Aluminum
Max. body weight	45 kg
Angle	13°

647G97

## Tube Clamp Adapter

Aluminum



The 4R66 Tube Clamp Adapter is designed solely for use in transtibial prostheses.

<b>Order no.</b>	<b>4R66</b>
<b>Diameter</b>	22 mm
<b>Weight</b>	45 g
<b>System height</b>	- 11 mm
<b>Material</b>	Aluminum
<b>Max. body weight</b>	<b>45 kg</b>

## Socket Attachment Block


Plastic



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

<b>Order no.</b>	<b>5R9</b>
<b>Weight</b>	125 g
<b>System height</b>	30 mm
<b>Material</b>	Plastic
<b>Max. body weight</b>	<b>45 kg</b>

► To laminate the unit, use the 4X8 Lamination Aid provided.

 647H119

## Socket Adapter

Aluminum



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

<b>Order no.</b>	<b>4R60</b>
<b>Weight</b>	45 g
<b>System height</b>	33 mm
<b>Material</b>	Aluminum
<b>Max. body weight</b>	<b>45 kg</b>

 647H119

## Lamination Anchor with Pyramid Receiver

Aluminum



The 4R110 Lamination Anchor is suitable for use in transtibial and transfemoral prostheses and has to be laminated into the socket.

Order no.	4R110
Weight	55 g
System height	35 mm
Material	Aluminum
Max. body weight	45 kg

To laminate the unit, use the Lamination Aid provided.

647H252



Single components	replacement parts						
Order no.	2R41=1	2R41=2	2R48	4R60	4R66	4R110	5R9
<b>506G3=M6</b> Set Screw	▲	▲	▲	▲		▲	
<b>501S42=M6X18</b> Oval Allen Head Screw					▲		
<b>501S41=M5x16</b> Countersunk Head Screw							▲
<b>4X8</b> Lamination Aid							■

● Single component pack    ▲ Minimum order quantity    ■ Can be ordered individually

## Modular Knee Joints for Children



3R39


Aluminum

## Modular Knee Joint with Lock

Single-axis, with adjustable joint lock



Order no.	3R39
Proximal connection	Pyramid adapter
Distal connection	Tube clamp Ø 22 mm
Weight	145 g
Knee flexion angle	145°
System height	24 mm
Proximal system height up to alignment reference point	2 mm
Distal system height up to alignment reference point	22 mm
Material	Aluminum
Max. body weight	45 kg

 647G99

Single components

replacement parts

## 4D20 Single component Pack for 3R39

Consists of:

- 1 joint axis
- 2 bearing washers
- 1 straight pin



## 3R38

Aluminum



### Modular Knee Joint

Single-axis, with adjustable extension assist mechanism for swing phase control.

Order no.	3R38
Proximal connection	Pyramid adapter
Distal connection	Tube clamp Ø 22 mm
Weight	160 g
Knee flexion angle	145°
System height	24 mm
Proximal system height up to alignment reference point	2 mm
Distal system height up to alignment reference point	22 mm
Material	Aluminum
Max. body weight	45 kg

647G99

## Single components

replacement parts

### 4D15 Single component Pack for 3R38

Consists of:

- 1 straight pin, 1 guide sleeve, 1 O-ring
- 1 joint axis, 2 bearing washers

## 3R66

Aluminum



### Modular Knee Joint with Integrated Rotation

Polycentric, with

- Adjustable extension stop for variable knee stability
- Adjustable extension assist for swing phase control

The lower joint section features an integrated rotation unit that enables the prosthetic foot to be rotated and automatically reset when it is not bearing any load. The joint also offers a large 165° flexion angle so the child can assume a good kneeling or squatting position with his/her foot rotated outward.

Order no.	3R66
Proximal connection	Pyramid adapter
Distal connection	Tube clamp Ø 22 mm
Weight	310 g
Knee flexion angle	175°
System height	78 mm
Proximal system height up to alignment reference point	- 6 mm
Distal system height up to alignment reference point	83 mm
Material	Aluminum
Max. body weight	35 kg

647H212

3R65


Aluminum

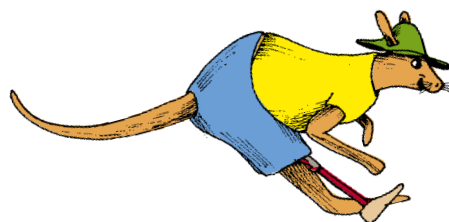


### Single-Axis Modular Knee Joint with Hydraulic Swing Phase Control

A miniature hydraulic unit controls the swing phase and allows for dynamic adjustment to changing speeds. Extension and flexion damping features can be adjusted to suit the mobility of the young user.

Order no.	3R65
Proximal connection	Pyramid adapter
Distal connection	Tube clamp Ø 22 mm
Weight	315 g
Knee flexion angle	145°
System height	74 mm
Proximal system height up to alignment reference point	8 mm
Distal system height up to alignment reference point	67 mm
Material	Aluminum
Max. body weight	45 kg

 647H180



Single components

replacement parts

### 4D17 Single component Pack for 3R65

#### Consists of:

- 1 oval head countersunk screw
- 1 extension stop bumper

## Modular Hip Joint for Children

7E8


Aluminum



### Modular Hip Joint

Single-axis joint, with adjustable extension assist mechanism to limit stride length and adjustable abduction/adduction and flexion/extension.

Order no.	7E8
Proximal connection	Lamination anchor
Distal connection	Tube clamp Ø 22 mm
Weight	215 g
System height	19 mm
Material	Aluminum
Max. body weight	45 kg

 647G98

Single components

replacement parts

### 7D3 Single component Pack for 7E8

#### Consists of:

- 1 straight pin
- 1 extension assist tappet
- 1 bearing washer
- 1 extension stop bumper

# Exoskeletal Joint

3P21

Poplar



**Single Axis Knee-Calf Component for Children**  
With constant friction unit, standard extension stop frame and knee ball

Order no. (order example):

Article no.	=	Side	Calf circumf.
3P21	=	L	26

Article no.	3P21
Sides	left (L), right (R)
Calf circumference	24 cm, 26 cm, 28 cm
Material	Poplar

Accessories

Have to be ordered separately.



**726W11 Taped Reamer**  
For reaming worn knee axis bushings

Single components

replacement parts



**3D5 Single component Pack for 3P21**  
**Consists of:**  
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 friction screws –slotted– (5)  
2 constant friction units (plastic) (6)  
1 stop (Pedilan®) (7)

## Foam Cover

## Polyurethane flexible foam



The cover for children's modular transtibial prostheses features a pre-drilled hole (22 mm in diameter) and is pre-formed. It can be used on either the left or right side.

Order no.	6R7
Length	~ 35 cm
Tube diameter	22 mm
Material	Polyurethane flexible foam
Color	beige

In accordance with DIN 75200, the material is flame resistant.  
Meets requirements of MVSS 302 standard  $\leq 100$  mm.

## Foam Cover

## Polyurethane flexible foam



The cover for children's modular transfemoral and hip disarticulation prostheses features a pre-drilled hole (22 mm in diameter) and is pre-formed. It can be used on either the left or right side.

Order no.	3R48
Length	~ 70 cm
Tube diameter	22 mm
Material	Polyurethane flexible foam
Color	beige

In accordance with DIN 75200, the material is flame resistant.  
Meets requirements of MVSS 302 standard  $\leq 100$  mm.

## Perlon Cosmetic Stockings



Perlon cosmetic stockings are used as cosmetic finishing for children's modular system knee disarticulation, transfemoral and hip prostheses.

Order no.	99B22=1	99B22=2	99B22=3
Length	approx. 34 cm	approx. 37 cm	approx. 44 cm

