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Sport prostheses

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 sport.

High demands are placed on a sport prosthesis – it has to be sturdy, yet also lightweight and compact.

The Ottobock sport prostheses enable you to exercise your potential fully and vary it as needed.

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 647H537

3S80 Sport

The 3S80 Sport features optimal swing phase control for running. Even at high stride rates, harmonious 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.



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



 647G839 Instructions for Use

4R206 TF test sport foot adapter

The 4R206 TF Test Sport Foot Adapter in combination with a suitable socket adapter (e.g. 4R77 or 4R51) joins the 1E90 Sprinter prosthetic sport 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.



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



 647G839 Instructions for Use

4R204 TF definitive sport foot adapter

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



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

1E90 Sprinter

The 1E90 Sprinter foot may be used in combination with other components that have been designed and performance tested for use in running or similar athletic activities. The following Ottobock sports and fitness components have been performance tested with the 1E90 Sprinter foot: 3S80 Sports Prosthetic Knee.

The foot provides very high energy return and is available in six stiffness versions to accommodate various body weights.



Reference number	1E90
Weight	600 g
Scope of delivery	Carbon spring
Max. body weight	125 kg

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



647F435
647F483

647G849

2Z500 Universal sole with running shoe tread

The universal sole with a running shoe tread is suitable for running on a variety of surfaces.

Article number	2Z500
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647G848

2Z501 Spike sole

The spiked sole can be used for fast sprints, especially on an all-weather track.

Article number	2Z501
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647G848

4G791=KIT Accessory kit

Article number	4G791=KIT
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4R210 TT test sport foot adapter



Article number	4R210
Material	Aluminium
Weight	385 g
Max. body weight	100 kg



4R208 TT definitive sport foot adapter



Article number	4R208
Material	Aluminium
Weight	284 g
Max. body weight	100 kg



4R420 Posterior connection plate (set)

for direct lamination in transtibial fittings (posterior)

Article number	4R420
Max. body weight	Unlimited



2R176=T T-Adapter

for direct lamination in transtibial fittings (distal)

Article number	2R176=T
Max. body weight	Unlimited



2R177 L-Adapter

for transfemoral fittings

Article number	2R177=5	2R177=18
Angle	5°	18°
Max. body weight	Unlimited	

3R2 ProCarve knee joint

The ProCarve sports prosthetic system includes a monocentric, aluminium sports knee equipped with a highperformance hydraulic damping element and a disengagement function to make sitting down more comfortable. The damping element – a combination of a pneumatic spring and a hydraulic unit – ensures dynamic movement. The individually adjustable air pressure controls the flexion movement and the hydraulics dampen the extension movement. When re-engaged, the flexion angle is limited to 67°. In order to sit down, the user can bend the knee joint easily without damping simply by pulling on the attached belt. The maximum flexion angle when disengaged is 80°. Together with the ProCarve foot component, this provides a targeted and coordinated system solution for users with an aboveknee amputation or knee disarticulation.



Article number	3R2
System height	241 mm
Flexion angle (locked)	80°
Flexion angle (unlocked)	67°
Weight	1190 g
Scope of delivery	Blocking clip
Max. body weight	100 kg



1E2/1E2=1 ProCarve foot

The ProCarve foot can be used as an independent unit or in combination with the ProCarve knee joint. It is connected directly to the ski binding or combined with a footshell that has a shape suited especially for snowboard boots.

Like the ProCarve knee, the foot includes a high-performance, robust damping unit for controlling the movement around the pivot point. The function and the adjustment options are the same as for the damping unit in the knee joint.

A second version of the foot (1E2=1) offers increased stiffness, from which advanced riders with below-knee amputation can profit the most.



Article number	1E2/1E2=1
Size	One size
System height	120 mm (attachment parts for ski fittings) 103mm (with footshell)
Weight	1550 g
Scope of delivery	Foot pads with soles for the ski binding, footshell for snowboard boots, high-pressure air pump
Max. body weight	100 kg



4G901 Footshell

Shaped for snowboard boots.

Article number	4G901
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755Y68 High-pressure air pump

For adjusting the air pressure.

Article number	755Y68
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4G115 Blocking clip

Blocks damping function for easier walking.

Article number	4G115
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