

Triton – Family of Products

Your Life. Your Adventure.

Quality for life







Triton – Family of Products

Leading an unhindered everyday and professional life, being active in leisure time and sports. Taking on challenges, but also just spending time with family and friends. All this stands for a good quality of life.

Quality of life involves independence and mobility – the ability to decide on your own goals and how to reach them. Otto Bock takes on the challenge of supporting people in many different mobility areas by creating products which continually push the limits of performance.

The Triton family of products offers a selection of feet to meet these demands perfectly. Mobility on a higher level. For a self-determined life.

The Benefits

Triton – Family of Products

1C60 Triton



- Smooth roll-over characteristics via an interactive spring system consisting of 3 interconnected spring elements
- Clear plantar flexion at heel strike

- Split forefoot for more safety, stability and control on uneven surfaces
- Excellent dynamics, energy storage and energy return
- Heel stiffness adaptation to individual patient needs by using included heel wedges
- Suitability for a broad range of application, from everyday life to leisure sports
- Suitable for patients weighing up to 330 lbs (150 kg)
- Choice of slim footshell with $\frac{5}{8}$ " (15 mm) heel height or normal footshell with $\frac{3}{8}$ " (10 mm) heel height, both with sandal toe design



reddot design award
winner 2011

1C61 Triton Vertical Shock



Triton Vertical Shock broadens the excellent functionality of the 1C60 Triton carbon fibre foot by an increased vertical shock absorption and torsion capability.

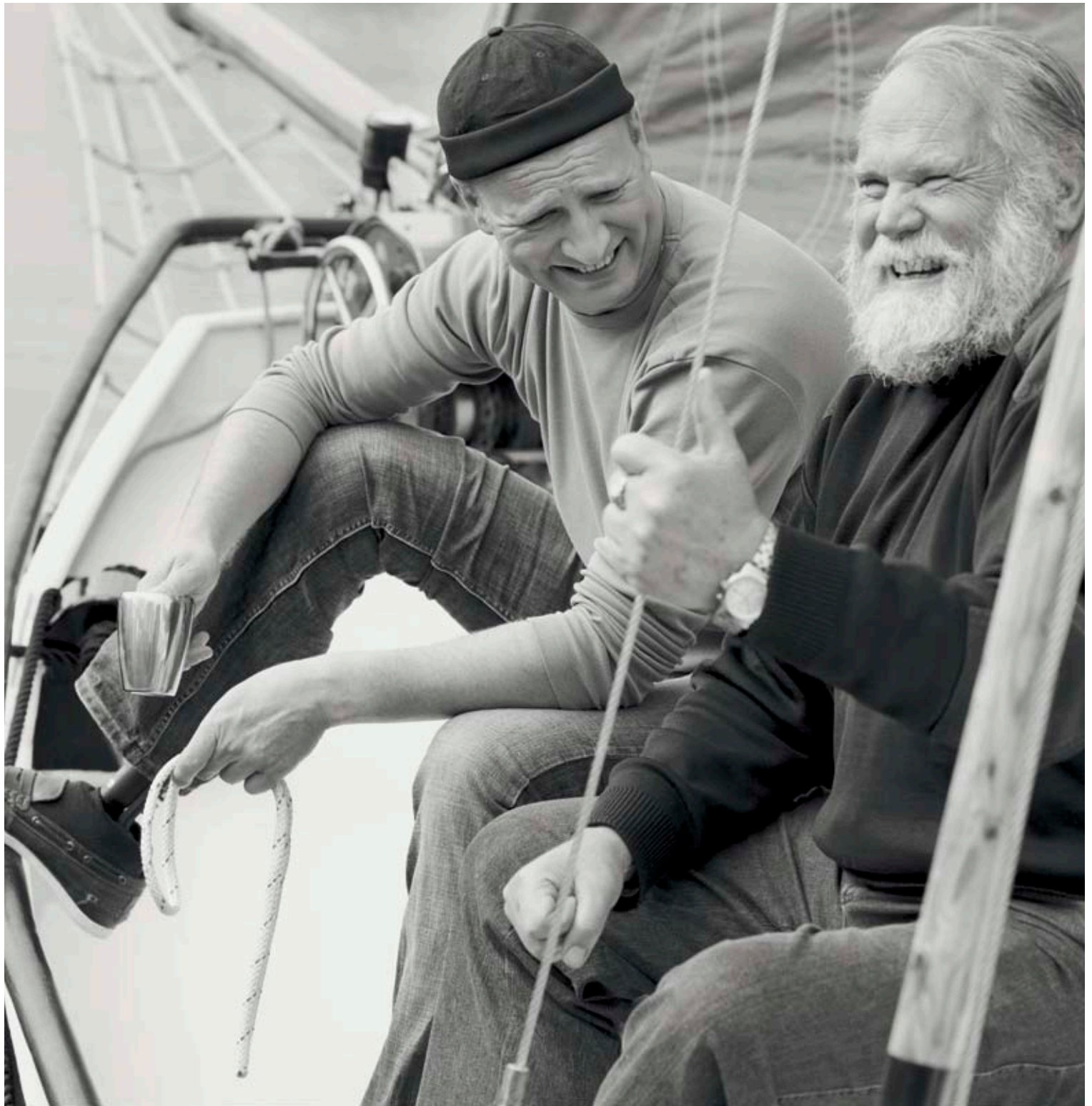
- Excellent dynamics and flexibility of 1C60 Triton
- Reduced vertical and torsion forces between residual limb and socket
- Improved shock absorption
- Compact design

1C62 Triton Harmony[®]



The Triton Harmony[®] combines the excellent functionality of the 1C60 Triton carbon fibre foot with the proven Harmony[®] P3 technology.

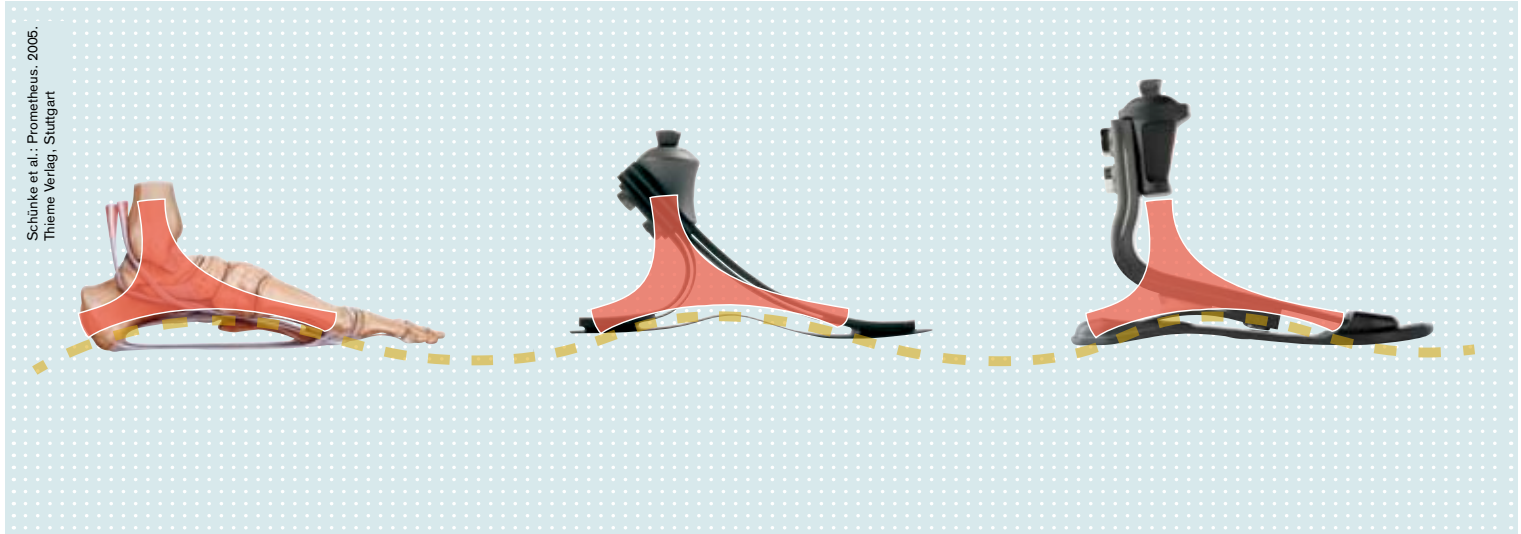
- Excellent dynamics and flexibility of 1C60 Triton
- Stronger connection between residual limb and prosthesis for increased safety
- Reduced volume deviations
- Reduced vertical and torsion forces between residual limb and socket
- Improved shock absorption
- Better proprioception
- Compact design



Triton

Learning from nature

In 2006, Otto Bock released the Trias: a prosthetic foot with a unique design based on natural anatomy.



Human foot

In the human foot, the flexible forefoot structure is connected to the supporting heel via the plantar fascia (aponeurosis). The interplay between the different muscles and tendons thus controls the movement of the foot. When you put weight on your heel, during roll-over or when pushing off with your toes, there is a smooth flow of force throughout your entire foot system.

Trias

The anatomy of the natural foot is reflected in the curved, triangular form of the Trias. The Triton feet take the concept of the Trias to the next stage of evolution, honing it to meet the requirements of highly active amputees.

Triton

Like the Trias, the Triton feet comprise three connected spring elements. A carbon forefoot spring and a two-part carbon heel spring form the load-bearing structure. The high-performance polyester base spring connects these elements to form a closed system, thus allowing a smooth rolling movement.



Technology for Mobility

During the development of the Triton feet, our engineers made mobility their priority. They worked together with amputees to create a family of products that meet the demands of an active lifestyle.

Thanks to the innovative design, the Triton feet are suited for a broad range of applications. Even under high load the feet offer excellent function.



At heel strike the springs of the Triton are strong enough to effectively dampen the impact of the load. The moderate shortening of the heel lever supports the user, allowing them greater control and safety when bending their knee. The foot's characteristics in this phase of walking can be individually adapted to the user with the supplied heel wedges.



Especially during roll-over, the advantages of the interconnected spring system of the Triton become apparent. A high-performance polymer base spring connects the forefoot and heel made of light and flexible carbon fiber material to form an interactive system. The majority of energy stored during heel strike is gradually released in the course of the stance phase. This makes easy roll-over possible for the user. While standing, the Triton shows a largely neutral reaction when the patient shifts his weight from one foot to the other. This special feature of the Triton allows the user relaxed and stable standing.



The base spring of the Triton has a specially formed and split forefoot section. Due to this unique feature the effective foot length reaches up to the big toe. For the user this means that he is able to perform a powerful transition to the swing phase and to walk with highly variable step length – depending on the situation and walking speed. At the same time, the split forefoot section provides the required control on uneven terrain and for quick changes of direction – for example, during sports activities.



The functional ring element of the Triton Vertical Shock and Triton Harmony® allows for transverse rotational movement when under load. For the user this results in a reduction of shear forces between residual limb and socket which is beneficial especially in demanding activities such as sports or physical work.



The Triton VS and Triton Harmony® provide additional vertical deflection and shock absorption created by the elastomeric functional ring. This helps to reduce vertical and torsional forces effectively, which occur for example while doing sports activities. The residual limb of the user is noticeably relieved.



The Harmony® P3 technology improves the connection between residual limb and socket, resulting in increased proprioception and an additional plus in safety for every situation. The residual limb volume also gets significantly stabilized.



For detailed comparison of the Triton feet with other feet from the Otto Bock foot portfolio, please have a look at the function matrix for prosthetic feet (646F307).

1C60 Triton

1 Adapter

Pyramid adapter made of lightweight Aluminum

2 Carbon Forefoot Spring

The split forefoot spring offers energy return, stability and control at roll-over and toe-off

3 Base Spring

The split base spring made from a high-performance polymer material has a separate big toe and connects the forefoot and heel spring to form an interactive system

4 Carbon Attachment Spring

The attachment spring made of carbon fiber material gives the foot the required stability

5 Carbon Heel Spring

The heel spring provides shock absorption at heel strike and stores energy for a smooth transition to the stance phase

6 Interchangeable Heel Wedges

The CPO can easily adapt the foot to the individual patient needs by using the included heel wedges



1C61 Triton Vertical Shock

Adapter

Pyramid adapter made of Titanium

2-in-1 Functional Ring

Elastomeric ring for vertical shock absorption and torsional movement

Housing

Triton Vertical Shock housing made of lightweight Aluminum



1C62 Triton Harmony®

Adapter

Pyramid adapter made of Titanium

3-in-1 Functional Ring

Elastomeric ring with intake and exhaust valves for vacuum generation, vertical shock absorption and torsion

Housing

Triton Harmony® housing made of lightweight Aluminum



Technical Data

Triton – Family of Products

Indications and Field of Application

The Triton feet are suitable for transtibial, knee disarticulation, transfemoral and hip disarticulation amputees with moderate to high activity levels who desire a dynamic carbon fiber foot with high load capacity.

According to the Otto Bock MOBIS® Mobility System the Triton feet are recommended for patients with Mobility Grade (MG) 3 and 4 – unrestricted outdoor walker and unrestricted outdoor walker with especially rigorous demands. The maximum permissible patient weight is 330 lbs (150 kg).



Technical Data	1C60 Triton	1C61 Triton Vertical Shock	1C62 Triton Harmony®
Suitable for	MG 3–MG 4		
Max. body weight	150 kg/330 lbs (MG 3), 125 kg/275 lbs (MG 4)		
Sizes	21 cm to 30 cm		
Footshell	Slim shape for 5⁄8"/15 mm heel height (21 cm–27 cm) Normal shape for 3⁄8"/10 mm heel height (24 cm–30 cm)		
Customization	Scope of delivery includes two heel wedges		
Weight (for size 26)	approx. 16.2 oz/460 g without footshell, approx. 24 oz/680 g with normal footshell	approx. 26.8 oz/760 g without footshell, approx. 34.6 oz/980 g with normal footshell	
System height / Clearance (with normal footshell for size 26)	5.2"/5.9", 131/149 mm	7"/7.7", 177/195 mm	
Vertical displacement		max. 15 mm	
Range of rotation		max. ± 9°	
Recommended knee components for MG 3	3R60, 3R46, 3R55, 3R95, 3R80, C-Leg®, Genium		
Recommended knee components for MG 4	3R46, 3R55, 3R95, 3R80, C-Leg®, Genium		



Up to 220 lbs/100 kg
Size 21–24 cm



Up to 275 lbs/125 kg
Size 25–30 cm



Up to 330 lbs/150 kg
Size 25–30 cm

Order Information

Delivery of the Triton feet includes the footshell, a transparent (soft) heel wedge and a black (firm) heel wedge. The footshell is available as slim version (S) with $\frac{5}{8}$ " (15 mm) heel height and as normal version (N) with $\frac{3}{8}$ " (10 mm) heel height.

Each of the footshells can be ordered either in beige (4) or in light brown (15) color. The following stiffnesses and footshell shapes are available:

1C60 Triton

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 121 lbs	1	1	1	1	1	1	–	–	–	–
122 – 165 lbs	2	2	2	2	2	2	2	2	2	2
166 – 220 lbs	3	3	3	3	3	3	3	3	3	3
221 – 275 lbs	–	–	–	–	4	4	4	4	4	4
276 – 330 lbs	–	–	–	–	5	5	5	5	5	5



1C60 Order example

Article no.	=	Side	Size	-	Stiffness	-	P /	Color	Shape
1C60	=	R	27	-	3	-	P /	4	N

1C61 Triton Vertical Shock & 1C62 Triton Harmony® (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
88–103 lbs	1-0 Special order – Please contact customer service						–	–	–	–
104–121 lbs	1-1	1-1	1-1	1-1	1-1	1-1	–	–	–	–
122–143 lbs	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2
144–165 lbs	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3
166–192 lbs	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
193–220 lbs	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5
221–247 lbs	–	–	–	–	4-6	4-6	4-6	4-6	4-6	4-6
248–275 lbs	–	–	–	–	4-7	4-7	4-7	4-7	4-7	4-7
276–302 lbs	–	–	–	–	5-8	5-8	5-8	5-8	5-8	5-8
303–330 lbs	–	–	–	–	5-9	5-9	5-9	5-9	5-9	5-9



1C61 & 1C62 Order example

Article no.	=	Side	Size	-	Spring Stiffness	-	Functional Ring Stiffness	-	P /	Color	Shape
1C61	=	R	27	-	2	-	3	-	P /	4	N

● slim version available ● both versions available ● normal version available

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