A strong connection
The Ottobock Active Concept for transtibial amputees
A sailing trip, a walk on the beach, jumping, dancing and running – our legs and especially our feet are exposed to a variety of stresses.

They compensate for uneven surfaces, dampen impacts and are even able to handle rapid movements. The feet and legs drive us, simultaneously acting as a buffer for the rest of the body.
With the Active Concept, the prosthetist can assemble a prosthetic system – precisely the way a life with lots of movement demands it – from the foot to the liner to the sealing sleeve. After all, what use is even the most flexible foot if it is not firmly attached to the residual limb all the way around. And what use is a strong connection between the prosthetic components if the socket presses on the skin during fast and abrupt movements, or if perspiration cannot escape.

### The Components

**Triton Harmony foot – for greater freedom of movement**
- Outstanding dynamic response and flexibility in the foot
- Abducted big toe for freedom in summer when wearing sandals
- Ability to rotate the foot and shock absorption to protect the joints and spine
- Mechanical pump generates an elevated vacuum in the socket for excellent suspension

**6Y512 Anatomic 3D Liner – protection especially in sensitive areas**
- Special protection of the residual limb thanks to the combination of polyurethane (PUR) material and the antibacterial effect of Skinguard technology
- Anatomy-specific geometry
- Easy handling
- Highly innovative

**Derma ProFlex sealing sleeve – for easier flexion**
- Highly flexible copolymer (TPE) facilitates knee flexion
- Curved shape reduces the formation of wrinkles in the hollow of the knee

The interplay of prosthetic components under the Active Concept makes a strong connection – for anything from a sailing trip to a romantic evening walk.
**Triton Harmony 1C62**

The prosthetic foot with integrated Harmony pump

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**Triton + Harmony = Triton Harmony**

**What does it mean?**

The Triton Harmony consists of a prosthetic foot (Triton) with a bridge-like structure that permits a harmonious rollover. It is complemented by an integrated pump (Harmony) that ensures the prosthesis is kept firmly in place. The Triton Harmony is the right prosthetic foot for anyone who, notwithstanding an amputation, highly values an active lifestyle, autonomy and independence – and therefore improved quality of life.

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**Triton – Learning from nature**

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**The Human Foot**

Every day our feet are exposed to various stresses: they have to handle uneven surfaces and dampen impacts, for example when jumping and running. The natural foot achieves this thanks to its bridge-like structure. This arch is kept under tension by the plantar aponeurosis in the area of the sole. The interplay between the different muscles and tendons thus controls the movement of the foot. Forces are smoothly transferred at heel strike, during rollover or upon toe-off.

**Triton Prosthetic Foot**

The structure of the Triton prosthetic foot closely resembles the natural foot. This is because the Triton comprises three interconnected spring elements. A carbon forefoot spring and a two-part carbon heel spring form the load-bearing structure. The high-performance polymer base spring in turn connects these elements to form a closed system and provide for a particularly smooth rollover. This makes the Triton prosthetic foot a good foundation for movements such as walking on uneven surfaces, jumping and fast running.
The Harmony System
Active volume management

The Harmony system ensures the highly secure, firm support of your residual limb in the socket – regardless of its shape. This is achieved by a pump that actively generates a vacuum between the liner and socket, therefore actively managing the volume in the socket.

Thanks to the pump unit, the size of the residual limb does not change as readily – for example due to temperature fluctuations or when switching from high to low activity. This results in especially good suspension, making the user feel safer. Force transmission while walking is also very focused.

In addition, outstanding suspension prevents a downward pull on the residual limb by the prosthesis, thereby counteracting lengthwise stretching of the tissue. Not to mention that experience has shown that wounds on the residual limb heal better and more quickly on users fitted with the Harmony system. This is because circulation in the residual limb is improved.

A shock absorber is integrated into the Harmony system. It helps register bumps more easily and simultaneously dampens the stride. A torsion adapter also allows the leg to be rotated to the right and left. Both of these features relieve strain on the joints and spine.

Ultimately this results in significantly more natural walking and standing. The gait pattern becomes more harmonious.
1C60 Triton + Harmony = 1C62 Triton Harmony
A combination for mobility at a high level

The new 1C62 Triton Harmony enhances the outstanding performance of the 1C60 Triton prosthetic foot. The integrated Harmony pump guarantees reliable prosthesis adhesion.

In everyday use, the Triton Harmony supports a smooth rollover with optimum energy return. It also permits mobility at a high level in sports activities, with reliable suspension and optimised shock absorption.

The design of the foot system is very compact. This means users with a longer transtibial residual limb can also benefit from the combination of Triton features with Harmony vacuum technology.

**Characteristics**
- Highly harmonious rollover characteristics thanks to the interactive spring system comprising 3 connected spring elements
- Noticeable foot flexion in the direction of the sole upon heel strike
- Split forefoot for greater safety, stability and control when standing and walking
- Outstanding dynamics combined with energy storage and return
- Suitable for a wide range of applications, from everyday use to leisure and sporting activities
- Slim (15 mm heel height) and normal (10 mm heel height) footshells available
- Abducted big toe allows sandals to be worn

1 Adapter
Pyramid adapter made of titanium

2 3-in-1 Functional Ring
Elastomer ring with intake and outlet valves to generate a vacuum, vertical shock absorption and torsion movement

3 Housing
Lightweight aluminium housing

4 Carbon Forefoot Spring
The split forefoot spring provides a high energy return, stability and control during rollover and toe-off

5 Base Spring
The high-performance polymer, split base spring has a separate big toe, and connects the forefoot and the heel spring to form a complete system

6 Carbon Attachment Spring
The carbon attachment spring gives the foot the required stability

7 Carbon Heel Spring
The heel spring dampens the impact at heel strike and stores the energy for a smooth rollover

8 Interchangeable Heel Wedge
The optional heel wedge is a simple way of adapting the Triton to suit the individual needs of the patient
Anatomic 3D PUR Liner
An innovative liner design

The Anatomic 3D PUR Liner is the first liner based on the anatomy of the lower leg. The material is thicker in sensitive areas to provide protection. It is thinner in other areas for greater flexibility. This is also referred to as Anatomy-Specific Geometry (ASG).

**Soft yet still adhesive**
A non-sticky exterior coating makes the liner quick and easy to put on. The liner is particularly soft, yet it provides excellent adhesion. Moisture between the liner and the residual limb is distributed by the special structure in the liner and literally dissipates through its texture.

**Two versions**
In addition to the proven classic version, the liner is also available with an integrated textile component. The overhang of the textile component can be pulled over the socket edge to increase the life of the sealing sleeve. Trimming the overhang of the textile component is also possible.
Feeling good about one's body and not having to fear unpleasant odours should be a matter of course, regardless of the situation. It makes everyday human interaction more relaxed, thereby contributing to wellbeing and enhanced quality of life.

However, many prosthesis wearers know from personal experience that feeling good about one's body is not always a matter of course. The residual limb can perspire during the day, resulting in unpleasant odours caused by bacteria breaking down perspiration in the liner. Various Ottobock liners such as the Anatomic 3D PUR liner are therefore equipped with the antibacterial Skinguard Technology additive, which provides proven protection against the formation of odours.

Skinguard Technology uses silver ions. Thanks to its antibacterial properties, silver has been used in various fields for about 3,000 years – for example in the dressings of adhesive bandages and, since a few years, in the treatment of chronic wounds. Silver impairs the growth of germs, bacteria and fungi, and therefore prevents wound infections without being toxic. Silver fibres are also integrated into clothing to prevent odour formation, especially in sports textiles.
Derma ProFlex Sealing Sleeve
With pre-flexed shape

The 453A3 Derma ProFlex Sealing Sleeve is made of durable copolymer with an exterior textile cover, and serves to facilitate knee flexion. The pre-flexed shape prevents the formation of wrinkles in the hollow of the knee.

**Characteristics**
- 15° angle for easier flexion and reduced formation of wrinkles
- Cone-shaped for comfortable pressure distribution in the area of the thigh and optimal adhesion to the prosthetic socket
- Reduces pressure on the kneecap
The Active Concept
Overview

**Triton Harmony (1C62=*)**
The high-performance prosthetic foot with integrated Harmony pump.

**Anatomic 3D PUR Liner with SKINGUARD Technology (6Y512=***-G)**
The first liner based on the anatomy of the lower leg.

**Derma ProFlex (453A3=*)**
The anatomically shaped sealing sleeve.

**Liner Fit Kit sock set (451F20)**
Accessories for a test socket, consisting of socks and pads.