



LINDHE XTEND

make it possible

For a life lived  
to the full



XTEND FOOT

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## We take developments a step further



Ordinary foot prostheses are highly restricted in their capacity to adapt to uneven surfaces, leading to falls, uncertainty and fatigue. However, developments have now taken a stride forward when it comes to functional foot prostheses. A product which reduces the risk of losing balance – which gives the user greater security and freedom.

Xtend Foot is a patented foot prosthesis which functions to all intents and purposes like a real foot. Its unique feature is greater lateral mobility for the foot, which allows it to compensate for uneven surfaces during walking. The foot consists of a specially-designed fibre composites element which is fitted with a special gluing technique. The system of three spring elements controls the foot's natural movement. The three-fibre laminate elements work together to produce a strong and durable structure and an optimum energy return, at the same time making the foot compact and flexible, and one of the lightest on the market.

## 17 degrees that mean everything

Xtend Foot has a unique lateral flexibility of 17 degrees (which can be compared with a human foot which achieves 17-20 degrees). This is quite revolutionary. Uneven surfaces make the foot work, and not the residual limb, hips or knees. As the foot is lightweight, it minimizes exertion and makes walking easy.



Scan the code and watch a film showing the foot's unique mobility.



The prosthetic foot's lateral mobility makes learning to walk with it easy. By counteracting unevenness, it adapts to different surfaces and gives the user unrivalled security and balance.



The heel laminate delivers a stable heel strike with good damping. The bulk of the energy that is stored when the heel strikes is gradually released during the toe-off phase. This makes easy roll-over possible. The base laminate gives the product strength and an effective energy return.



Toe laminate in specially developed fibre composites. The split toe, a flexible glue and the special laminate combination gives it additional mobility, which is the distinguishing feature of Xtend Foot.

## Uneven ground? No longer a problem!

Xtend Foot's mobility makes it easier to maintain balance, as the foot adapts to uneven ground surfaces. It produces a comfortable and natural way of walking, even on downward slopes and stairs. The toe, heel and base laminate give the product strength and an effective energy return. The active shock absorption in the foot provides appreciable relief for the residual limb.



## Almost like a real foot

- Xtend Foot enables a more flexible gait on all surfaces.
- Superior balance, stability and mobility.
- Adaptable to different surfaces thanks to its flexible design and innovative structure.
- Simpler and shorter learning period for the user.
- Developed in close collaboration with users, orthopaedic technicians and universities.

# Size guide and technical facts

Xtend Foot is intended for users who have had their thigh and lower leg amputated and who regularly maintain a moderate to high level of activity, particularly outdoors and on uneven terrain. The prosthetic foot accommodates both double and single amputees, up to 125 kg in weight. It has a standard pyramid adapter for fast and simple fitting on an existing socket/artificial leg.

The majority of users have tried the foot with excellent results and have experienced a substantial difference, in particular when walking outdoors and on uneven surfaces.

Foot size [cm]	23	24	25	26	27	28	29
40–60 kg	H100–323	H100–324					
61–80 kg	H100–423	H100–424	H100–425	H100–426	H100–427	H100–428	H100–429
81–100 kg	H100–523	H100–524	H100–525	H100–526	H100–527	H100–528	H100–529
101–125 kg			H100–625	H100–626	H100–627	H100–628	H100–629



## Christoffer Lindhe, founder of Lindhe Xtend

Christoffer was just 17 years old when he lost both legs and an arm in a railway accident in 2006. But against all odds he survived, largely thanks to the fact that he was very fit as a top-class swimmer. With impressive single-mindedness, he decided to continue his active life, and just two years after the accident he competed in the Paralympics.

However, things were more difficult in his everyday life. Walking outdoors turned out to be a challenge. The smallest hole or stone made him lose his balance and fall over. So, as part of his training to become a development engineer, he researched why his balance was not good enough, and came to the conclusion that the problem lay in the restricted mobility of the prosthesis. As he wanted to be outdoors without depending on a wheelchair, he teamed up with orthopedic technicians and university experts and ultimately developed his own foot prosthesis which could flex laterally. The result proved to be a world-first invention.



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