

For progress.
The Carbon Foot Series GO.



For everyone.

A prosthetic foot is not just something that replaces a body part.

Rather, it is a symbol of freedom, mobility and balance.

Depending on the user and their personality, it must meet various, quite individual requirements. Whilst most people like being active, others opt for comfort. Lots of people also want to integrate both into their life. Often, fate or old age forces people to have a less mobile day-to-day life. What this requires is something that incorporates both of these aspects.

The solution is GO.: a series where the first available prosthetic feet GO.smart and GO.free cover mobility classes 1 to 2 and 3 to (4).

Aligned to the essentials, they provide the required functionality as well as the necessary comfort.



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For forward-thinkers.

Behind every product, there's an idea. Behind every production, there's a development. What you hold in your hands isn't a coincidence. On the contrary, it's the product of a long journey. Each step along the way has had its own unique hurdle. The shape design, the colour selection, the materials' testing. What helps is creativity, expertise and a concentrated focus on the goal.



Pen and paper was enough for initial thoughts and possibilities. Personal and technical demands were already in the back of peoples' minds, as was the market. The underlying task was quickly defined: a series that was united by its design, branding and function. Likeable and down-to-earth companions. Not a niche product, but a product for every day.



More patience was required for developing the technical details. At our in-house workshop, prototypes were made with empty tesa rolls as free-hanging spring, which was the start of a long process. The in-house 3D printer made tools for the individual components, thus saving valuable time. Connecting the parts then became one of the biggest challenges. Carbon and elastomer are very difficult to stick together so the right adhesive for carbon feet was only found using the help of experts.



Six months after the first sketch, the first carbon prosthetic foot had been made. Using the in-house gait lab, it was tested, checked, corrected and feedback from testers was evaluated. After the final optimisations were made, series production began for GO.free and GO.smart.







For the ambitious.

The value of this product is reflected in its durability, robustness, flexibility and workmanship. Perhaps you can recognise a good product by just looking at it. But you can definitely feel that it's a good product with the materials used.

For sensitive products such as prosthesis fittings, composition plays an even greater role. The fitting has to replace a part of a person. The development meets its goal if the user hardly notices an impairment. GO.free and GO.smart move another step closer to this goal.

Colours

Colours aren't really used for making life more beautiful and colourful, but rather for quick orientation. They have a fundamental importance and impact upon actions, thoughts and feelings.

Black stands for technique, for individuality. It is elegant, stable and functional. Black is modern, matter-of-fact, and stripped down to the essentials.

Red is energy, a love of life, progress. Red makes the heart beat faster, and the breath a little quicker. It is brave, powerful, energetic and exciting.

Carbon

Carbon is one of the most important materials of the future. Carbon fibres are just five micrometres thick, and the surfaces are made from these fibres. This makes it even thinner than human hair, which is 70 micrometres. Carbon is 50% lighter than aluminium and yet is harder than steel.

The unique material is used and processed for a whole range of things: in racing bikes, mountain bikes, tennis rackets, Formula 1 racing cars, and for brakes in the automotive and aerospace industries. The 100% handmade carbon springs in the GO. prosthetic feet are an efficient energy store.

Elastomer

Elastomers are plastics that retain their shape but are flexible. After bearing tensile and pressure loads, they return to the original unformed shape. The material has outstanding cushioning properties, and is tear-resistant and corrosion-resistant. The combination of elastomer and carbon means that stability and elasticity is gained. The intelligent combination of the cushioning and energy-saving properties gives a controlled dynamic.

Adhesive

Adhesive appears on the outset to be something that is ordinary, simply and uncomplicated. However, many things wouldn't be in their current form without it: books, mobile phones, ebook readers, cars, and much more. In the industry, adhesion is used as an effective and pioneering technique that can connect all kinds of materials, in contrast to screws, rivets, etc. The integration of functions, such as sealing components or thermal and electric isolation, promises additional added value.





For high-flyers.

The GO. series marks the combination of these components and materials. They determine the structure and are key for individual properties. The multilayer wide base fibre made from carbon, for lateral stability, forms the basis of this. Together with the use of elastomer, it secures the dynamics, multi-axiality and a regulated gait that comes very close to how a real foot would move.

The active GO.free and the less mobile GO.smart can provide perfect balance on uneven surfaces such as cobblestones or grass, without losing stability. Carbon means that the energy store is used optimally: energy is absorbed upon heel impact, then stored and released when the toes are unrolled. Longer full contact is also a given in both prosthetic feet. GO.free solves this with free-hanging springs that support the user in their direction of movement. In contrast, GO.smart uses more elastomer, which absorbs the movement and moves it into a multi-axial joint.

GO.smart

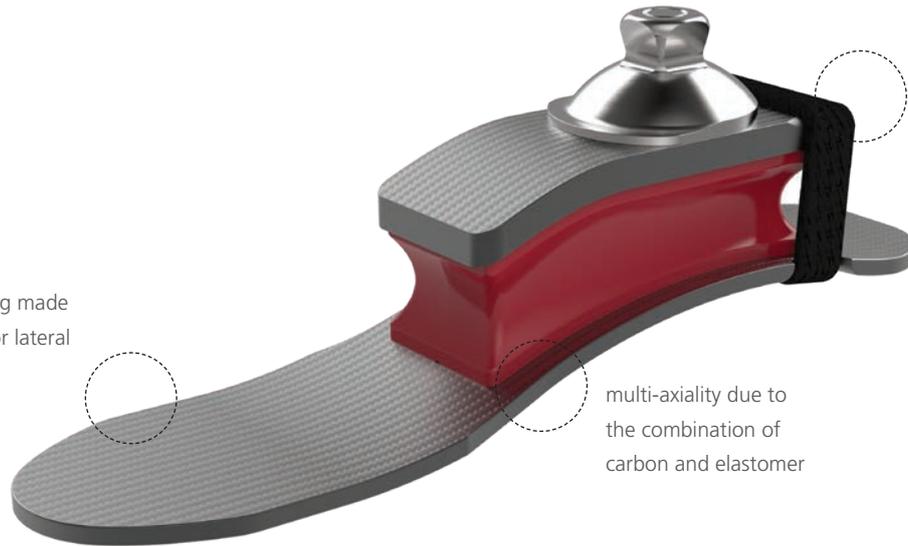
Features

- carbon foot for mobility class (walky) 1 to 2
- wide base spring made from carbon, for lateral stability
- multi-axiality due to the combination of carbon and elastomer
- longer prolonged full contact between foot and ground
- foot shell and spectra-sock included

Technical data

- maximum body weight: up to 125 kg (depending on size)
- connection: Pyramid
- heel height: 10 mm
- weight: 594 g (size 27 including foot shell and spectra-sock)
- mount height: Size 22 – 25 cm = 61 mm,
size 26 – 29 cm = 69 mm
- maintenance-free

wide base spring made
from carbon, for lateral
stability



high-tech band
for optimal
foot roll movement

multi-axiality due to
the combination of
carbon and elastomer

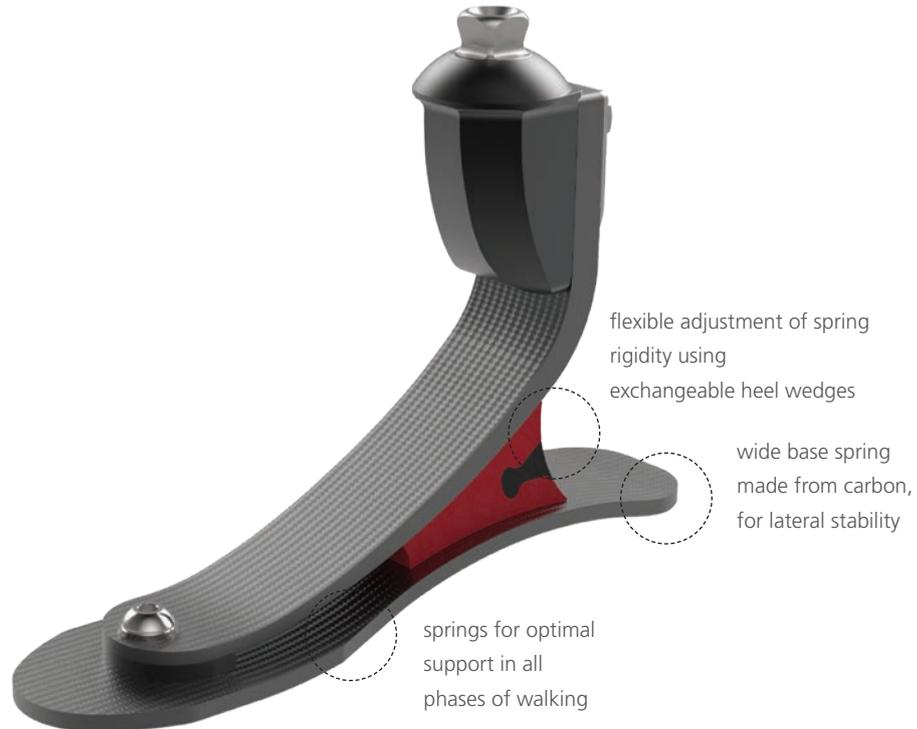
GO.free

Features

- carbon foot for mobility class (walky) 3 to (4)
- wide base spring made from carbon, for lateral stability
- multi-axiality due to the combination of carbon and elastomer
- longer prolonged full contact between foot and ground
- dynamic and natural gait on various different surfaces
- flexible adjustment of spring rigidity using exchangeable heel wedges
- foot shell and spectra-sock included

Technical data

- maximum body weight: up to 150 kg (depending on size)
- connection: Pyramid
- heel height: 10 mm
- weight: 660 g (size 27 including foot shell and spectra-sock)
- mount height: Size 22 – 25 cm = 144 mm,
size 26 – 29 cm = 155 mm
- maintenance-free





For you.

Technical specifications are only as good as the prosthesis wearer perceives them to be. Innovation is of little use if people can't feel it. That's why the best recommendation for a product always comes from practical application. And in doing so, you quickly realise that it's often not about something that's revolutionary. It's often about small, individual features that bring the prosthetic foot into its own.

Christina has tested the GO.free.

Christina, what does a prosthetic foot have to have to make you feel comfortable?

The foot definitely has to be dynamic and has to be able to keep up with my walking speed. I go walking in the countryside a lot. A light foot that adapts to ramps, and gives me stability and footing, is just as important as good foot roll movement for a good gait. And of course I pay attention to how a foot looks. The way that it looks is the thing that stands out first.

You say that design is important to you. What was your first impression of GO.free?

I was immediately excited! The foot is really elegant. The first time I saw it, I thought, 'slick'. I wanted to take the foot outside straight away to test it out and see whether it would do what it promised to do (*laughs*).

Where did you put the GO.free to the test?

I went outside, walking. That's where you quickly notice the differences between how robust a foot is and how well you are able to use it. If it's still stable when I'm walking on uneven forest paths, with stones and roots, then it's the right foot for me. GO.free is a really good companion, particularly when you're going downhill.

What properties did the GO.free have that enabled it to win you over?

The dynamics and the energy return is great. I can also adjust the heel impact for me, which is a big plus. I prefer to have soft heel impact. But still, the GO.free didn't give me the feeling of 'sinking in' when I was standing. Footing and stability are a given.

Is there anything else you thought was missing?

Honestly? I can't think of anything right now.

You're very active. Who do you think the prosthetic foot is suitable for?

It's perfect for day-to-day, when you have to go on longer walks or take a bus or a train. People who have an average activity level are definitely well taken care of.

But if people play sport regularly, then they should ideally be using a foot with a slightly higher classification. That being said, more carbon feet are supposed to be added to the series.

You seem very happy with the GO.free. What about the future? What would you want, what should prosthetics developments focus on?

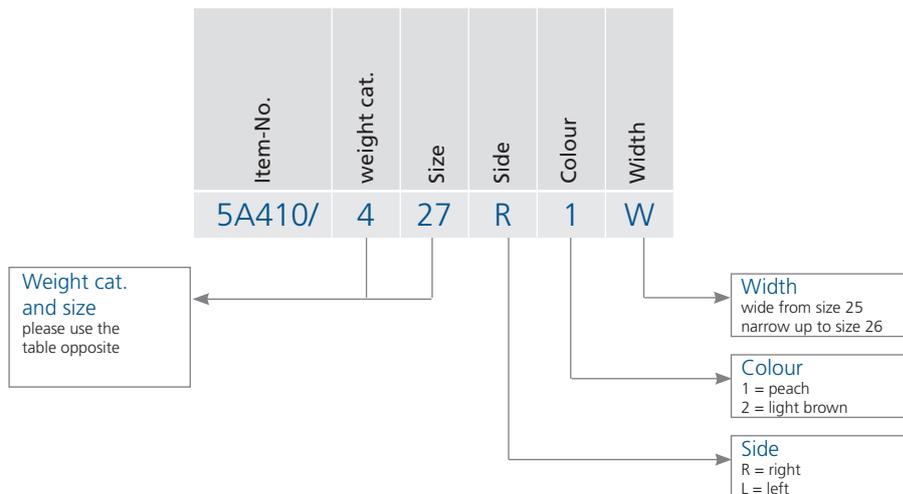
The GO.free design is great. But I think that you could still work on how prosthetic feet look. A personalised cover would be great. It always looks a little bit strange when a skin-coloured plastic foot is put on black carbon.



For structured people.

Article number

For a quick and easy ordering process, the article numbers for the prosthetic feet and the accessories follow a uniform structure:



GO.free 5A430

max. body weight	60 kg	80 kg	100 kg	125 kg	150 kg
weight cat.	3	4	5	6	7
Size 22 cm	Dark	Dark	Light	Light	Light
Size 23 cm	Dark	Dark	Dark	Light	Light
Size 24 cm	Dark	Dark	Dark	Dark	Light
Size 25 cm	Dark	Dark	Dark	Dark	Light
Size 26 cm	Dark	Dark	Dark	Dark	Dark
Size 27 cm	Dark	Dark	Dark	Dark	Dark
Size 28 cm	Light	Dark	Dark	Dark	Dark
Size 29 cm	Light	Light	Dark	Dark	Dark

GO.smart 5A410

max. body weight	60 kg	80 kg	100 kg	125 kg
Weight cat.	3	4	5	6
Size 22 cm	Dark	Dark	Light	Light
Size 23 cm	Dark	Dark	Dark	Light
Size 24 cm	Dark	Dark	Dark	Dark
Size 25 cm	Dark	Dark	Dark	Dark
Size 26 cm	Dark	Dark	Dark	Dark
Size 27 cm	Dark	Dark	Dark	Dark
Size 28 cm	Light	Dark	Dark	Dark
Size 29 cm	Light	Light	Dark	Dark



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