

A Milestone in Prosthetics

The Genium provides an intuitive, natural gait

Simply walking without thinking about it, backwards or forwards, sometimes quickly, sometimes slowly. Going up or down stairs, crossing obstacles, sitting relaxed--most people don't even think about these things. Not so for prosthesis wearers. They know that a prosthetic knee joint that could make all of this possible would truly enrich their lives.

This is precisely why the new Genium developed by the Ottobock constitutes a milestone in prosthetics. It supports the natural movement pattern down to the details – without requiring the user to consciously control the joint. The Genium works intuitively, with everything happening in real time – so that walking becomes a matter of course.

This is made possible by the latest computer, sensor and control technology. Thanks to this technology, the Genium reacts intelligently to a wide variety of everyday situations, allowing users to come far closer to a natural walking pattern than previous prosthetic solutions allowed. Integrated sensors continuously monitor the user's current phase of gait. They take into account the speed, acceleration and also position of the prosthesis in space, among other factors. Users find a noticeable reduction in how much energy they have to expend to move and coordinate their movements, especially on slopes, inclines and uneven surfaces.

Highlights of the Genium include the ability to walk backwards with security, and to climb stairs step-over-step for the first time, without an active drive system or massive compensating movements. Because it works intuitively, as part of the natural movement cycle and without special commands, the Genium offers a solution that previously appeared impossible for a non-powered prosthesis. Curbs, obstacles in the household or other everyday tripping hazards can also be handled more safely and naturally.

Other practical innovations for the user include resistance against splashed water and the long battery life of the microprocessor-controlled prosthesis – with an average capacity of five days. Users can take advantage of the Genium in a broad

A graphic consisting of two overlapping circles. The top circle is light blue and the bottom circle is light green. The text "Quality for life" is written in white inside the green circle.

Quality for life

range of challenging, everyday activities without having to worry about their next step.

Certified adaptation by select medical supply companies

Prerequisites for fitting users with the new Genium knee joint include proven, extensive experience with transfemoral prostheses and microprocessor-controlled joints, as well as completion of training with specialised technical equipment. This establishes a consistent, high quality fitting standard so that users can take full advantage of the new prosthetic system's complex technology.

For further information:

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