



*“It feels natural. When you take steps it is just like a normal foot, it bends. It gives you active propulsion. It is almost as if the Empower walks for you.”*

Mattias

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## Empower

The only commercially available microprocessor controlled prosthetic foot with powered propulsion

Quality for life



Information for practitioners

# Restore their power.



Designed for active individuals who navigate varied indoor and outdoor environments and place a high value on the ability to cover longer distances and walk faster.

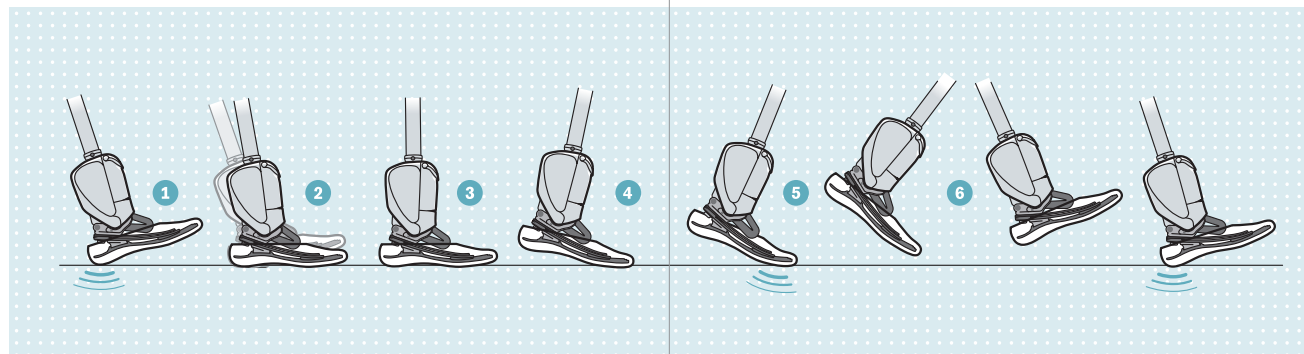
## Clinically proven benefits

- Emulates lost muscle function by actively supplying energy at toe off<sup>1,2</sup>
- Active plantar flexion during loading of the limb provides extra comfort when walking and increased stability when walking downhill on slopes<sup>3</sup>
- Reduces loading on the body joints due to increased support late in stance phase on the prosthetic side<sup>4</sup>

## More than a foot. A foundation.

### Technical data

<b>K-Level</b>	K3
<b>Max. body weight</b>	287 lbs / 130 kg
<b>Sizes</b>	25–30 cm
<b>Build height with normal footshell (size 27 cm)</b>	8 3/4 in / 221 mm
<b>Range of motion</b>	22° plantar flexion



## Empower during the gait cycle

- 1 Heel strike:** User-specific shock absorption thanks to three different heel wedge options.
- 2 Loading response:** Fast full-ground contact thanks to active plantar flexion.
- 3 Mid stance phase:** The Taleo Low Profile base spring provides a smooth rollover, efficient energy return, and optimal adaptation to varying ground conditions.
- 4 Terminal stance phase:** Energy storage through compression of the innovative U-shaped carbon spring.
- 5 Pre-swing:** A battery-powered, motorized actuator coupled with a high energy spring provide powered propulsion when the toe is loaded. With every step, the Empower delivers the right amount of propulsion that is needed to push off and move forward.
- 6 Swing phase:** The Empower stays in neutral position.

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- Herr, H. M. & Grabowski, A. M. (2012). Bionic ankle-foot prosthesis normalizes walking gait for persons with leg amputation. *Proceedings. Biological sciences*, 279(1728), 457–464.
- Gates, D. H., Aldridge, J. M. & Wilken, J. M. (2013). Kinematic comparison of walking on uneven ground using powered and unpowered prostheses. *Clinical biomechanics (Bristol, Avon)*, 28(4), 467–472.
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### Suggested combinations for transtibial amputees

4R220 DVS vacuum pump, 6Y94 DVS liner and 453A30/40 ProFlex Plus knee sleeve

- Reduces the perceived weight of the prosthetic due to its firm, precise fit on the residual limb.



### Suggested combinations for transfemoral amputees

6Y110 Skeo Sealing Liner

- Ensures a secure prosthetic connection and is characterized by easy donning and doffing, as well as good residual limb adhesion.



3C88-3/3C98-3 C-Leg 4, 3B1-3 Genium and 3B5-3 Genium X3

- Characterized by their high level of safety, proven in numerous clinical studies.

