Orion³
Intelligent microprocessor control you can depend on.
“The reliable and predictable performance of Orion3 gives me confidence in getting around the garden and doing DIY.”

Chris
Orion\(^3\)

Orion3 is suitable for K3 walkers who would benefit from stability on different terrains, slopes and steps and for those wishing to walk naturally and efficiently at their self selected walking speeds.

The safety and stability of Orion3 encourages users to evenly distribute their weight, offloading their sound side and lower back to reduce aches and pains commonly reported by amputees.

**Enhanced Stability Performance**

Enhanced Stability Performance (ESP) increases the user’s confidence and independence, reducing the risk of stumbles or falls and ensuring more balanced limb loading for greater long term health and protection.

ESP adapts hydraulic resistance in real time, providing optimal stance support whether walking in a crowded environment, on uneven terrain, slopes, steps and now also when standing. With situational awareness, Orion3 continuously monitors the user’s activity and responds accordingly for greater safety.

**Controlled Stance Support**

Supportive resistance throughout stance phase provides optimal stability for walking with greater safety and less effort on all-terrain.

**Standing Support**

Maximum resistance stabilizes knee, on both flat and slopes, encouraging better posture and balanced loading to relieve pressure on sound limb and lower back.

**Stumble Recovery**

Stance resistance engages during swing phase extension to ensure knee stability should the user stumble.

**Dynamic Slope and Stair Descent**

Knee resistance progressively increases with immediate support on the first step and increasing support with further knee flexion for enhanced control and safety when descending stairs or slopes.

**Supported Sitting**

Progressive hydraulic resistance ensures greater support and control to sit down with safety and confidence and more balanced loading across both limbs.
Natural Efficient Motion

Knee flexion during swing phase varies according to walking speed. With microprocessor pneumatic swing control, Orion3 controls heel rise across a range of walking speeds for a more natural swing. The pneumatic spring also makes it easier to initiate swing, saving energy with every step and ensuring more natural knee flexion at lower speeds.

Optimal Stance Release

Orion3 releases high resistance just before the knee bends for optimal safety, easy knee flexion and reduced walking effort.

Adaptive Speed Control

By sensing changes in walking speeds, Orion3 dynamically adapts pneumatic control in real time for a smooth, natural and energy efficient swing.1,2

Terminal Swing Damping

Swing phase extension is damped in late swing to soften knee movement and prevent terminal swing impact.

“Because Orion3 is so easy to use it doesn’t drain me of energy, leaving me with more energy to do other things!”

Chris

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Chris
**User Modes**

- Users can switch to the free-knee flexion cycling mode at the press of a button.
- A flexion lock can be activated for comfort when standing for long periods of time. The lock can be set at angles of up to 45 degrees.

**Power**

With Lithium Ion batteries, Orion3 users benefit from up to 3 days power, dependent on usage. A convenient battery life indicator allows users to check the battery status at the touch of a button. In low power situations, Orion3 emits an audible warning before switching to Low Power Mode, where the knee is fixed in high stance resistance to ensure user safety. The magnetic charger makes it simple to charge the Orion3.

**Smart Programming**

Programming Orion3 is faster and simpler with the Orion3 Programming App. With its simple to follow automated smart programming, simply connect via Bluetooth® and program in just a few walking steps. You’ll also have access to advanced fine tuning and be able to save and restore settings.

**Cosmetic Cover**

The cosmetic cover provides optimal protection against wear and tear from everyday activities for Orion3. Whether it’s scratches, impact or wear and tear, the cosmetic cover protects the prosthesis while being lightweight in design. The cosmetic cover makes kneeling more comfortable by reducing pressure and force from the ground. The design also enhances a more natural shape under clothes.

The cover simply clips together so it is easy to put on and take off. The design also allows for easy access to charging points and controls.
Complementary Components

Orion3 works well in combination with Blatchford Hydraulic Technology. By self-aligning to the terrain and remaining dorsiflexed for swing, our hydraulic ankle feet provide a smooth, safe and natural walking experience, helping to preserve the body for the long term. Multiple independent scientific studies*, comparing Blatchford hydraulic ankle-feet to non-hydraulic feet, have shown:

- Greater comfort, reduced socket pressures
- Improved safety, reduced risk of trips and falls
- Smoother, easier and more natural gait
- More evenly balanced inter-limb loading
- Greater user satisfaction

*Please see Clinical Compendium available to download from the Blatchford website

“I no longer have to think about changing my route or avoiding something, because I am more confident on uneven and varied terrain.”

Becky
Features

- **Situational Awareness** – an Inertial Measurement Unit senses movement and speed to respond accordingly, in real time
- **Enhanced Stability Performance** – range of stance resistance optimizes safety at all times
  - Controlled Stance Support
  - Standing Support
  - Dynamic Slope and Stair Descent
  - Stumble Recovery
  - Supported Sitting
- **Natural Efficient Motion** – MPC pneumatics ensure energy efficient and smooth swing at multiple speeds
  - Optimal Stance Release
  - Adaptive Speed Control
  - Terminal Swing Damping
- **Cycle Mode**
- **Fixed Angle Flexion Lock**
- **Knee Flexion to 130°**
- **New!** Magnetic charger
- **Lithium Ion batteries with up to 3 days life, dependent on usage**
- **Battery Life Indicator**
- **Weatherproof**
- **Low Power Mode**
- **Intuitive Programming Software via PC or App**
- **Supplied with Cosmetic Cover**

Specifications

- **Max User Weight:** 125kg (275 lbs.)
- **Activity Level:** 3
- **Weight of Unit:** 1.5kg (3.3 lbs.)
- **Build Height:** 250mm
- **Control Unit:** MPK Hydraulic/ Pneumatic

Part Number

ORION3
(excludes proximal adapter)

Accessories

Battery Charger Kit - 239093
Cosmetic Cover - 561101BLACK

Proximal Attachments

(Ordered separately)

- Female Pyramid with Shift - 189128
- M36 Threaded Adapter - 239092
- Non-rotating Pyramid with Shift - 239089
- Rotating Pyramid with Shift - 239017
References


An annual visual inspection is recommended. Check for visual defects that may affect proper function. Maintenance must be carried out by competent personnel. Before carrying out any new activities of daily living, please check with your clinician whether specific training is required.