

Polycentric Knee

PK1



Distinctive features

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|---|
| high stability |
| 150° flexion angle |
| knee cap providing natural looking aesthetics |

About

The Circleg Polycentric Knee's unique design provides both the high stability required by low-mobility users while also meeting the demands of active users.

»» The Polycentric Knee provides a high level of stability at heel strike and additional ground clearance during the swing phase. It includes an extension assist spring and a flexion damper to optimize energy consumption and gait cycle. Being a mechanical knee, the material choice of high performance plastics and glass fiber greatly increases the corrosion and water resistance of the component. The mechanism is protected from dust and dirt by a knee cap, which also creates an aesthetic natural shape when in a sitting position.

Features

Impact damper

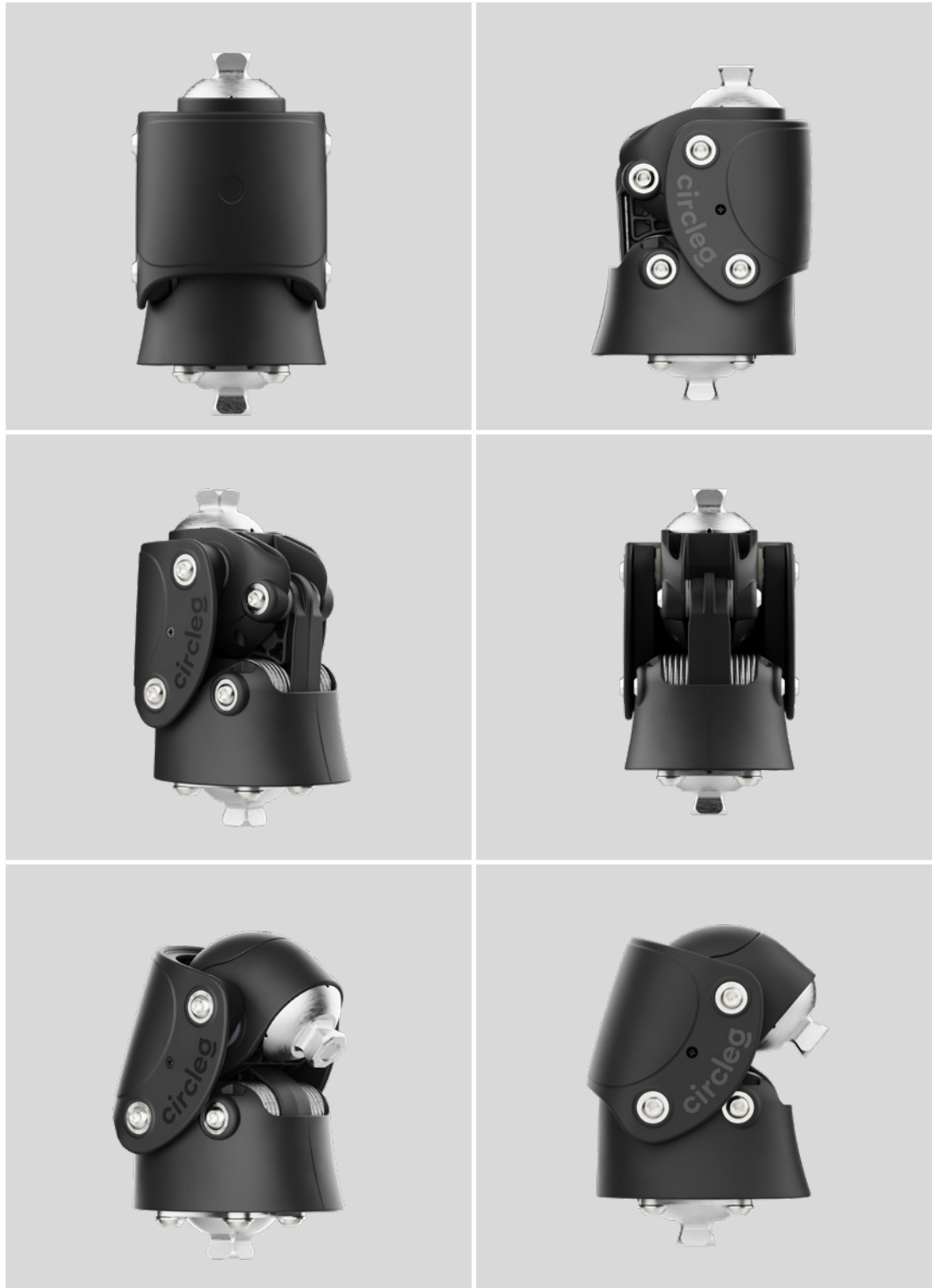
Prevents noise and significantly reduces the impact at the end of the swing phase ensuring quiet and comfortable walking.

Extension spring

Supports the extension of the knee joint during the swing phase. The spring is non adjustable, however, after extensive testing of different spring strengths we have selected an intermediate solution which allows the majority of users to walk comfortably.

Flexion damper

Limits the flexion angle during the gait cycle, which accelerates the gait cycle and allows the user to walk faster while using less energy. When sitting down, this flexion restriction is not an obstacle, allowing for a smooth sitting down and standing up.



Technical data

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|--------------------------------|---|
| USP | Designed to suit both low-mobility users as well as more active individuals, offering exceptional stability combined with a smooth, comfortable swing |
| | Extended range of motion of (150°) |
| | Realistic knee shape with a natural aesthetic |
| Materials | Main body: high performance polyamide reinforced with glass fiber |
| | Damping elements: high-quality elastomer |
| | Axes, screws, adapters & springs: durable stainless steel |
| Main production process | Injection moulding |
| Distal connection | Male pyramid adapter |
| Proximal connection | Male pyramid adapter |
| Knee flexion angle | 150° |
| Component height (mm) | 150 |
| Component weight (g) | 870 |
| Packaging | Protective cardboard box 17cm x 14 cm x 9cm |
| Regulatory status | CE marked, for more details see 'Regulatory status / classification' |

Intended user

| | |
|---------------------------------|-------------|
| Activity levels | K1, K2, K3 |
| Maximal Body Weight (kg) | P5 - 110 kg |