

NATURE IS THE TRUE ENGINEER

EXONEO CORE



BIOMIMETIC PROSTHETIC FOOT · K2

Stability. Motion. Comfort.

#NatureBuiltThis

WHY EXONEO CORE?

The blueprint already existed. We just followed it.

Designing for K2 users meant starting with their realities: uncertain footing, limited push-off, and the fatigue that builds through the day. For EXONEO Core, those needs and constraints became the starting point for rethinking how a foot should move, absorb load, and interact with the ground.





WHO IS IT FOR?

For K2 users who expect more from every step: all-day and all-terrain stability, and soft landings throughout the day.

Transtibial
Below-knee users

Transfemoral
Above-knee users

K2 · Limited community
Low to moderate activity

> **“Comfortable fit in the socket, I walk more.”**
> *User feedback · after several weeks, compared to usual foot*

> **“Much more stable, more flexible, and more comfortable.”**
> *User feedback · in-clinic trial, compared to usual foot*

Nature has spent millennia perfecting motion, stability, and comfort in the human foot. We followed the same blueprint, taking inspiration from nature to replicate what natural movement demands. The result is a new architecture for motion, stability and comfort.

INTRODUCTION TO BIOMIMETIC TECHNOLOGY

Inspired by Nature.

The EXONEO Core is built on biomimetic technology — engineering that replicates the natural mechanics of the human foot from the ground up. Every component works together: **absorbing shock, distributing load, and maximizing ground contact.**

Motion Like a Human Foot | Four Phases of Gait

Four phases of gait — the EXONEO Core mechanism above, its human counterpart below.



1

Heel Strike
Cushioned heel for soft, confident landings



2

Load Distribution
Stability and load distribution — plantar springs spread force across the foot



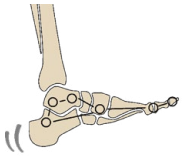
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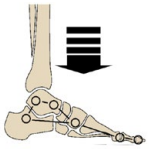
Toe Extension
20° toe extension with full ground contact — end of step stability and natural loading

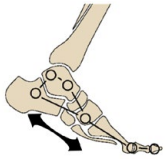


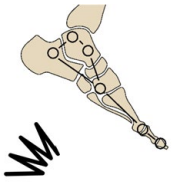
4

Energy Return
>90% energy return efficiency — propulsion that feels natural









Built for stability and comfort.

13mm
Up to 13mm vertical load absorption

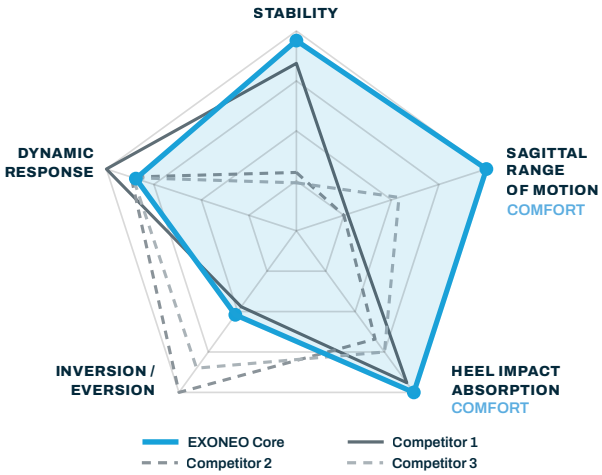
90%
90% energy return efficiency.

21mm
Up to 21mm of heel compression, for more impact absorption.

14°
Up to 14° of flat foot stability range, with natural toe movement

What makes it standout vs the competition

EXONEO Core vs. the competition, across five biomechanical axes.



Performance comparison based on standardized laboratory test results from an accredited international testing authority.

HARMONY

EXONEO Core delivers a high-level and balanced performance across stability, motion, load absorption, and adaptability to uneven ground, without trading one for another.

WHAT DO I NEED TO KNOW?

Technical Specifications



Activity Level	**K2**
Toe Flexion	**20°**
Build Height	**2.76” / 65mm (21–24cm)** **3.15” / 75mm (25–29cm)**
User Weight Limit	**330 lbs / 150 kg**
Product Weight	**0.88 lbs – 1.63 lbs / 403g – 739g**
Main Spring	**Fiberglass**
Heel compression	**Up to 21mm**
Vertical Load Absorption	**Up to 13mm**
Inversion / Eversion	**>8°**
Waterproof	**Yes — all types of water**
Sandal Toe	**Yes**
Warranty	**36 months**

L-CODES — L5972, L5986

Verify User Profile

- Patient activity level: K2
- Patient weight
- Foot size (21–29cm)
- Right or Left

Stiffness Category

Weight	21–24 cm	25–29 cm
88–111 lbs / 40–50 kg	**P2**	—
112–155 lbs / 51–70 kg	**P3**	**P3**
156–199 lbs / 71–90 kg	**P4**	**P4**
200–243 lbs / 91–110 kg	—	**P5**
244–287 lbs / 111–130 kg	—	**P6**
288–330 lbs / 131–150 kg	—	**P7**

Part Numbers

SIZES 21–24 CM
0400601 · 0400701
0400801 · 0400901

SIZES 25–29 CM
0100601 · 0100701
0100801 · 0100901

Foot Shell included with foot · Instructions for Use included

Complete Foot Module Part Number

0 5 C _ C _ -P _ - ____

- 5- Exoneo Core
- D- Right side, G- Left side
- Skin tone: 1- Light, 2- Dark
- Category: 2–7
- Size: 21-29

ISO 10328 certified

The PROTEOR Promise

WE CREATE POSSIBILITIES TOGETHER. PROTEOR is a leading prosthetic and orthotic device company committed to collaborating with prosthetists to spark real-world innovations. We are inspired by the people who use our products. Seeing their everyday achievements motivate us to make more things possible. When we all work together, it’s amazing what can be achieved.

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#FluentInMovement #HumanFirst

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