



4-Bar Hydraulic Microprocessor Controlled Knee

ALLUX2™

ALLUX 2 is the first 4-Bar Hydraulic MPK that controls both stance, and swing phase. It's unique design boasts a dual safety system based on inherent stability factors and microprocessor control. ALLUX 2 heightens safety and security while providing exceptional functionality to the user.

- The world's first combination of 4-Bar linkage design and Total phase microprocessor control.
- Enhanced function of Swing phase and a more natural gait.
- Increased toe clearance to reduce risk of stumbling.
- Enhanced safety for stumble recovery.

Points of improvement

- Programmable & Adjustable via Bluetooth device.
- Redesigned 4-Bar linkage utilizing needle bearings.
- Smoother movement and increased durability.
- Improved water resistance (IP44).
- Industry-leading range of motion (180° flexion).

Recommended L-code (PDAC verified)

- L5615(K1014), L5856, L5845, L5848

* K1014 is changed to L5615 from January 2024.

Nabtesco Mobility Assist



Total phase microprocessor control

ALLUX2 adapts automatically in both stance and swing phases providing stumble recovery even in a flexed position. Microprocessor control of the hydraulic unit provides the ideal resistance based on walking speed.

- Stumbling recovery
- Safety lock
- Dynamic stability (Stance yielding function)
- Natural Swing
- Various modes
- Back-up battery
- Adjustment / Remote App



Advantages of Polycentric design

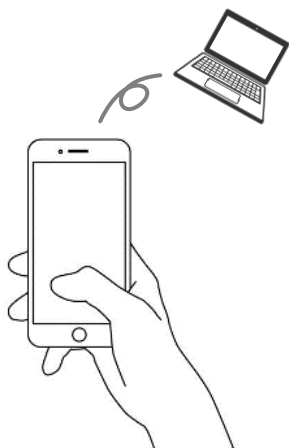
ALLUX2 is often referred to a "natural knee" due to its movement which closely mimics that of a human knee joint. The 4-Bar linkage design allows smooth transition to swing phase and with increased toe clearance, helps to reduce the risk of a fall.

- Easy for Voluntary control
- Easy transition to swing phase
- Greater toe clearance, Prevention from stumbling
- Better appearance in sitting on a chair
- Greater maximum flexion angle 180 deg.



Very Useful

A PC and/or remote control is no longer required! A certified prosthetist can quickly and easily program and adjust ALLUX2 from a Bluetooth-enabled smartphone. The patient is also able to easily switch modes and check battery level with a smartphone.



App for
Prosthetists



App
for Users

Specifications

Model No.	NE-Z41	NE-Z41SH
Proximal connection	Pyramid	Threaded head
Total length	295mm	287mm
Weight	1510g	1520g
Material	Carbon & Aluminum	
Max. Flexion Angle	180°	
Max. Body Weight	K3(MOB3) : 125kg K4(MOB4) : 100kg	
Battery	Lithium ion battery	
Battery life	Approx. 4 days (5000 steps per day on prosthetic side)	
Supplemental Backup battery	Lithium ion battery	
Water resistance	IP44	
Communication	Bluetooth	
Application software	<ul style="list-style-type: none"> • Adjustment App for Prosthetists • Remote Control App for Users (iOS and Android) 	

Specifications are subject to be changed without a prior notice.

Manufacturer

Nabtesco Mobility Assist

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Website