ALLUX 2™

Microprocessor-controlled polycentric hydraulic knee

ALLUX 2 is the first (and only) 4-Bar 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.

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ALLUX 2

Pyramid or Threaded Top

NEW
Needle bearings

NEW
4-Bar linkage design

Lithium Ion Battery

Charging connector

Microprocessor

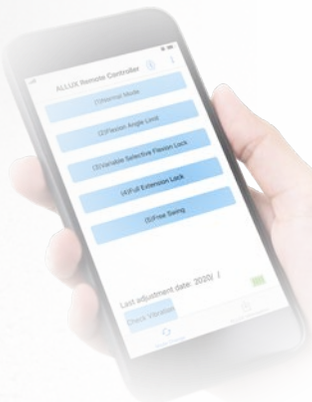
Hydraulic cylinder

Sensors

Frame

NEW
Communication Bluetooth

Bluetooth



Selecting 5 different modes with a smartphone

With a Bluetooth connected smartphone, the user can easily and conveniently select between up to five different pre-programmed modes to fit their current activity or environment for the highest level of versatility. From free swing, varying locking positions, or additional walking modes, users can easily change the function of ALLUX 2 with the push of a button in the remote control App.

New Communication Bluetooth

The stability and reliability of the wireless programming has been improved through Bluetooth connectivity via iOS or Android smartphones.

THE NEW DESIGN OF ALLUX ALLOWS

• Improved Usability

A certified prosthetist can quickly and easily program and adjust ALLUX 2 from a Bluetooth-enabled smartphone.
The patient is also able to easily switch modes and check battery level with a smartphone.

• Improved Durability

The introduction of new needle bearings provides smooth movement and increased durability while also improving the water resistance rating of ALLUX 2.

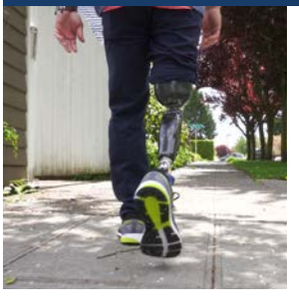
• Improved Flexibility

With a new maximum flexion angle of 180 degrees (up from 155°), ALLUX 2 offers more range of motion than any other microprocessor knee on the market today.

Enhanced function of swing phase

The microprocessor controlled hydraulic cylinder provides a smooth swing phase at various walking speeds. Finely tuned response, coupled with the 4-Bar linkage, allows the user to walk with a natural gait. The needle bearings introduced with ALLUX 2 have increased the smoothness and fluidity of the knee's movement to a new level.

Increased toe clearance



Compared to a single axis knee joint, the 4-Bar linkage shortens the length from knee center to toe during swing phase. This results in increased toe clearance and greatly reduces the risk of stumbling.

Enhanced safety

ALLUX 2 constantly monitors the knee position and movement and responds to abnormal situations. For instance: if the prosthesis gets stuck on an obstacle during swing phase, the knee will detect this adverse event and immediately increase resistance to prevent knee buckling.

Stance yielding function

The stance yielding function allows patients to smoothly walk down stairs and slopes step-over-step. In addition, ALLUX 2 allows for individuals to walk with a natural knee flexion movement to help reduce the shock during initial contact with the ground.

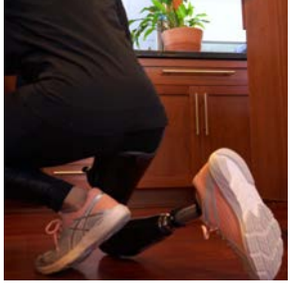
Long Battery Life

ALLUX 2 battery life is approximately 4 days (5000 steps on prosthetic side). The charge time for an empty battery is only 3 hours and an emergency battery is included in case of emergency.

Low Profile for Long Residual Limbs

While the patient is seated, the 4-Bar linkage folds under itself and allows for a more natural sitting position.

Greatest flexion angle in a microprocessor knee



ALLUX 2 offers a knee flexion angle of 180 degrees, more than any other microprocessor knee available. This increased range of motion is great for activities like biking, kneeling, or changing shoes.

Safety lock function

When the knee is flexed, loaded, and is stationary for a preset period of time (3/4 to 3 seconds), flexion will be automatically locked until it is extended. With ALLUX 2, Safety lock function has been improved to include a vibration from the knee-joint, letting the user know Safety lock has been engaged.

275 lbs / 125 kg

4
3
2
1

ALLUX2

REF.	NE-Z41	NE-Z4SH1
Proximal Connection	Pyramid	Threaded head
Distal Connection	Pyramid	
Build Height	11 1/2 in (295mm)	11 1/3 in (287mm)
Max. Flexion	180 °	
Knee Weight	3.4 lbs (1510k)	3.4 lbs (1520k)
Activity Level	1 2 3 4	1 2 3 4
Max. Patient Weight	275 lbs (125 kg)	275 lbs (125 kg)
Water Resistance	IP44	
Battery + Emergency Battery	Lithium Ion	
Battery Life	Approx. 4 days or 5.000 steps per day on prosthetic side	
Communication	Bluetooth	
Application Software	Adjustment App for Prosthetists (iOS and Android) Remote Control App for Users (iOS and Android)	

Included to Components
- Charging port cap
- Power OFF cap
- Charger
- AC adapter
- Backup battery
- Backup battery case
- Extension cable
- Backup battery charging cable

Suggested LCodes
Medicare - L5613, L5856, L5845, L5848
Non-Medicare - L5613, L5856, L5845, L5848, L5925, L7367
L5999 (Automatic Stance Lock)

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