



Waltronic Electro-Magnetic Stance Control

with stumble recovery and long lasting battery backup for

Knee Ankle Foot Orthosis with wired heel sensor

Knee Brace with wireless heel sensor

Zero Degree Locking and Unlocking

Key Features

- Automatic locking/ unlocking in stance/swing phase
- Wireless remote controlled AUTO, LOCK, FREE modes
- Waltronic System can be remotely switched off using the remote
- Mechanical lever based Automatic (A) and Free (F) mode
- System remains locked at 0° extension in power off mode
- Range of motion limited in 0° extension
- Electromagnetic locking/unlocking using heel sensor

Electronic Components of the Waltronic system

- Electronic Controller Unit with rechargeable battery
- Wired/Wireless Heel sensor for KAFO/Knee Brace
- Wireless Remote Control Unit for Waltronic
- Charging cable USB - Custom port

Waltronic Specifications

Joint Weight: 300 gm approx (Titanium, SS)

Max Patient Weight: 100 Kgs

Materials: SS316 and High Grade 5 Titanium

Battery Type: Rechargeable Lithium ion battery

Battery Life: > 12 hours continuous usage

Charging: Over night charging with auto cut off



Making electronic KAFO is now very easy

Long top bar design allows Waltronic to be fitted without opening up the joint. Its simplistic design aims at giving the best fitting experience to orthotists.

Patients that may benefit from Waltronic:

Patients in the following category may benefit from the Waltronic:

1. Polio Survivors and PPS
2. Spinal Cord Injury
3. Multiple Sclerosis
4. Knee Buckling patients due to neuro/ortho issues
5. Traumatic Brain Injury



Exclusion criteria:

- a. Contractures: Patients with contractures may not be ideal candidates
- b. Equinus: Fixed Equinus deformity patients who are not able to put load on the heel may not be ideal candidates for the Waltronic
- c. Patients with muscle tightness in the thigh may not be ideal candidates for the Waltronic.

Speak to an authorized Walnut Medical Waltronic fitting agency to get a diagnosis.

Modes of Wireless Remote Control Unit:

- 1. **OFF**: Remotely switch off the Waltronic joint
- 2. **FREE**: Patient can switch on the unlock mode by pressing FREE to cycle or while sitting for friction free movement of the Waltronic joint.
- 3. **LOCK**: Permanently lock the Waltronic joint
- 4. **AUTO**: To activate automatic stance control movement of the Waltronic



Additional features:

- 1. *Fail safe Locking*: In case of system switch off or any fault due to which Waltronic switches off, the system will lock itself at 0 degree in order to protect the patient.
- 2. *Long battery life*: Waltronic is fitted with a rechargeable battery for overnight charging and provides long battery life. The system consumes minimum energy is locked state
- 3. *False key stroke protection for Waltronic Remote and Electronic Control Unit*: In order to provide increased safety to the patient, Waltronic remote key needs to be pressed for over 3 seconds to activate LOCK, FREE, OFF and AUTO modes.

