



FOR THE HUMAN ENDEAVOR

EKSO PRODUCT OVERVIEW

Ekso is a wearable robot—or exoskeleton—that powers people with lower-extremity paralysis or weakness to get them standing up and walking. It is a ready-to-wear, battery-powered, bionic device that is strapped over the user's clothing. The combination of motors and sensors, along with patient assist with balance and body positioning, allow the user to walk over ground with an efficient reciprocal gait pattern. An experienced user/patient can transfer to/from their wheelchair and don or doff the Ekso in less than 5 minutes. The torso and leg straps are designed for the user/patient to easily get in and out of the device either on their own or with minimal assistance.

Intended For:

- People with lower extremity weakness or paralysis due to neurological disease or injury
- Spinal Cord injuries, Multiple Sclerosis, Guillain Barré syndrome
- Height range: 5'2" – 6'2"
- Maximum weight: 220 lbs
- Maximum hip width: 17"

Other User Requirements:

- Sufficient upper extremity strength to balance with crutches or walker
- Able to self-transfer from wheelchair to a regular chair
- Complete evaluation and screening by a medical provider before using device

Contraindication:

- Upper extremity strength deficits that limit the ability to balance with crutches or walker
- Spinal instability (or spinal orthotics unless cleared by MD)
- Unresolved DVT
- Decreased standing tolerance due to orthostatic hypotension
- Significant osteoporosis that prevents safe standing (or risk of fracture due to standing/walking)
- Range of motion restrictions that would prevent safe, reciprocal gait or normal sit-to-stand motion
- Uncontrolled spasticity
- Uncontrolled Autonomic Dysreflexia
- Non-functional upper extremity strength
- Skin integrity issues on contact surfaces of the device
- Cognitive impairments resulting in motor planning or impulsivity concerns
- Pregnancy

Battery life: 3 hours





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Understanding that each center has a different infrastructure that will drive utilization, we have charted out potential areas of usage for both spinal cord injury patients and others with mobility limitations.

Spinal Cord Injuries Usage Chart

	INCOMPLETE SCI	COMPLETE SCI
EXERCISE & WELLNESS	●	●
RESEARCH	●	●
GAIT TRAINING	●	
PREPARATION FOR PERSONAL DEVICE	●	●

Other Potential Areas of Usage

Neurological disorders such as Guillain Barre, MS, ALS, Parkinson's disease and other diagnosis may benefit from gait training with Ekso if all inclusion criteria are met.

Ekso offers a wide variety of research opportunities with SCI and other diagnostic groups.

Ekso Personal will be available in late 2013 only through Ekso centers that will have the ability to prescribe units to patients appropriate for these devices.

For sales information, please contact Anne Chechile at CustomerRelations@eksobionics.com.

