

EKSO GT REDEFINES GAIT TRAINING

INTRODUCING A NEW GENERATION OF EKSO

With the next generation in exoskeleton technology Ekso Bionics™ is once again forging a new frontier in rehabilitation for people living with the consequences of stroke, spinal cord injury, and other neurological conditions affecting gait. With unprecedented levels of performance, functionality, and utility, Ekso GT™ represents a new paradigm in over ground gait training.



FOR THE HUMAN ENDEAVOR



WHAT IS EKSO?

Ekso™ is a wearable bionic suit used in rehabilitation to enable individuals with any amount of lower extremity weakness or paralysis to stand up and walk over ground with a natural, full weight bearing, reciprocal gait. Walking is achieved by the user's weight shifts to activate sensors in the device which initiate steps. Battery-powered motors drive the legs, replacing neuromuscular function.

- Provides a means for people with as much as complete paralysis, and minimal forearm strength, to stand and walk
- Helps patients re-learn proper step patterns and weight shifts using a functional based platform
- Facilitates intensive step dosage over ground

WHAT'S NEW IN GT

- Sets a new industry standard in speed and turning capability through new software and hardware developments
- Added stance support and a stabilised gait achieved by adjustable ankle reinforcement
- More opportunities to optimise therapy and explore interventions with hip abduction/adduction and thigh rotation release options
- Faster adjustments cut patient set-up time to as little as five minutes so therapists can spend more time, with more patients
- Enabled for future stair and ramp upgrade

SUITABLE PATIENTS

Ekso GT is a gait training exoskeleton intended for supervised use by individuals with various levels of paralysis or hemiparesis due to neurological conditions such as stroke, spinal cord injury or disease, traumatic brain injury and more (see back cover for more details). It facilitates walking for people with a broad range of motor abilities and sizes. Everyone medically cleared who has passed physical examination has walked in their first session. Suitable patients may include:

- Up to C7 complete spinal cord injury
- Any level incomplete spinal cord injury
- Non- or pre-ambulatory individuals post-stroke

HOW IT'S USED

Ekso GT has been designed for the needs of busy therapists treating a wide range of patients in a single day. The suit is strapped over the users' clothing with easy adjustments to transition between patients in as little as five minutes. Ekso provides functional based rehabilitation, over ground gait training, and upright, weight bearing exercise unlike any other.

- Step Generator software helps get patients walking in their first session to quickly achieve work on gait patterning or step dosage
- Multiple step modes facilitate patients' progressing skills
- A tool to enforce proper biomechanical alignments and symmetrical gait patterns over ground

VARIABLE ASSIST

Variable Assist is a new paradigm in functional based gait training because it enables individuals with any amount of lower extremity strength to contribute their own power – from either leg – to over ground walking; Ekso fills-in the deficit. This new feature provides therapists the option to either assign a specific amount of power contribution from Ekso to help patients' walking efforts, or to dynamically adjust to the patients' needs in real-time dependent on the therapist's therapeutic goals.

Adaptive Assist

In this mode, users with any amount of lower extremity strength contribute what they can to their walking efforts. Ekso dynamically adjusts to produce a smooth, consistent gait. Information on the amount of power needed from each leg to complete each step in a specified amount of time helps therapists explore various interventions.

Fixed Assist

In this mode, either leg of the Ekso contributes a fixed maximum amount of power to help patients complete steps in a specified amount of time. Values are established using information gained while walking in Adaptive Assist or assigned by the therapist, allowing the clinician to explore the impact of various interventions on rehabilitation goals. For example, clinicians may elect for less power to engage strength recruitment from their patients, or more power to achieve higher step dosage.

Now you can get weak patients up sooner in the recovery process, provide therapy to a wider range of clinical presentations including hemiparesis, and explore the effects of various interventions by tuning the amount of power contribution to either, or both legs' walking efforts.



A VALUABLE TOOL FOR THERAPISTS

- **An exceptional platform for helping patients re-learn proper gait patterns** and deterring compensatory ambulation strategies
- **Reduces physical burden on clinicians** trying to achieve stable gait training and optimal biomechanical alignments over ground
- **Enriches clinician's understanding of patient-technology interaction** by providing quantifiable patient performance data throughout each session
- **Can tune therapy to patients' needs** for the desired impact on gait by adjusting step length, height and swing time
- **Enforces optimal weight shifts** through a designation of lateral and forward spatial targets
- **Enhances training effect with audio cues** reinforcing to the patient when spatial targets are achieved
- **Accommodates spasticity** by modifying speed of sit, stand, and swing-time
- **Accommodates a wide range of contractures** with hip and knee angle adjustments
- **Mitigates concerns of pressure sores risk** through intelligently designed soft goods

Step Generator Software

To help patients get up and walk fast, Ekso calculates and adjusts the path of each step through its swing phase at a rate of 500 times per second to maintain optimal ground clearance. This helps patients avoid stumbling in the early phase of their recovery as they re-learn to stabilise their posture. This also allows Ekso to more effectively mimic an unimpaired gait.



STEP MODES

FirstStep™

A trained spotter initiates steps with the push of a button.

ActiveStep™

User takes control of initiating their own steps via buttons on the crutches or walker.

ProStep™

The user independently achieves the next step by moving their hips laterally and forward.

NEW ProStep Plus™

Steps are triggered by the user's weight shift PLUS the initiation of forward leg movement.



A VALUABLE TOOL FOR CLINICS

- **Maximises your investment** through suitability for an unprecedented spectrum of patients
- **Optimizes your clinic's and therapists' time and resources** with remarkably quick set-up and minimal space requirements
- **Strengthens your clinical team's skills and instills confidence** through acclaimed hands-on, therapist-to-therapist training and certification program

EKSO CENTER PROGRAMS

Ekso has become an integral part of the therapy programs of some of the most respected rehabilitation clinics in the world. With these key partners, thousands of individuals suffering from paralysis due to such neurological conditions as spinal cord injury or stroke have achieved the dream some never thought possible: the chance to stand and walk again.

Ekso Academy

Training

Your Ekso delivery and installation process includes a comprehensive training and certification program for up to 4 physical therapists. It covers patient selection, screening, measuring, fitting and operation of Ekso, as well as clinical tips to encourage the full utilisation of your device. This valuable program strengthens your clinical team's skills, confidence, and optimises your facility's investment over time.

Knowledge Sharing

The Ekso Clinician Network

Certified therapists will have access to the Ekso Clinician Network. The group provides a valuable and exclusive forum for industry professionals to share and learn from certified physiotherapists across the network. Events and ongoing training enhance the opportunities for networking and peer connection.

The Ekso Research Network

A growing number of leading scientists are initiating studies on a variety of research topics related to spinal cord injuries, CVA, and other neurological conditions affecting gait. Participating in the Ekso Research Network opens up valuable networking and collaboration with research groups and scientists who are actively engaged in leading edge research.

Ekso Capital

If your preference is to keep valuable working capital in other areas of the operation, Ekso Bionics offers a leasing program. This allows integration of Ekso into the clinical practice with predictable cash flow and a hassle free operation. With the service program included this offers a low risk option.

Ekso Care

By signing up for a service contract you ensure that your investment is protected and you have unlimited access to our comprehensive support program:

- Regularly scheduled maintenance
- Support from our Field Service Engineers
- Access to the Ekso Clinical Team
- Loaner Units when needed
- Technical Service Call Center, available 6am – 6pm PST

Ekso Hope

We are committed to the success of each Ekso Center. To help bring Ekso to your facility we provide tools to support your fundraising efforts.

- Customised fundraising support
- Representation on Ekso Bionics website and social media channels
- Assistance with public relations and full access to Ekso's suite of marketing assets

Intended For:

- People with lower extremity weakness, paralysis or hemiparesis due to neurological disease or injury such as: Spinal cord injuries , stroke, Multiple Sclerosis, Guillain Barré Syndrome
- Height range: 150-190 cm
- Maximum weight: 100 kg
- Maximum hip width: 46 cm

Other User Requirements :

- Sufficient trunk, upper extremity, or lower extremity strength to provide balance and forward momentum for proper ambulation and manage an assistive device
- Ability to manage weight transfers and sitting balance
- Ability to follow basic instructions and to communicate in some manner understood to the operator if they are in distress or pain
- Ability to support majority of body weight on arms
- For user initiated button - sufficient strength and ability to control button push
- Complete evaluation and screening by a medical provider before using device

Contraindication:

- Range of motion (ROM) restrictions that would prevent a patient from achieving a normal, reciprocal gait pattern, or would restrict a patient from completing normal sit-to-stand or stand-to-sit transitions
- Spinal instability (or spinal orthotics unless cleared by a medical doctor)
- Unresolved deep vein thrombosis (DVT)
- Decreased standing tolerance due to orthostatic hypotension
- Significant osteoporosis that prevents safe standing or may increase the risk of fracture caused by standing or walking
- Uncontrolled spasticity
- Uncontrolled Autonomic Dysreflexia (AD)
- Skin integrity issues on contact surfaces of the device or that would prohibit sitting
- Cognitive impairments resulting in motor planning or impulsivity concerns
- Pregnancy

From the disabled to those who need help achieving feats beyond natural capability, we design bionics for the human endeavor.

For more information on acquiring Ekso and our support programs visit us at eksobionics.com or follow us at:

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