Your solution for gait rehabilitation

The G-EO System is the world’s most versatile robotic end-effector gait rehabilitation device, based on a modular platform concept.

Developed to address specific patient needs throughout the continuum of care, the G-EO System offers different modules and therapy options such as partial movements, floor and backward walking and the unique feature of realistically simulating stairs and slope climbing (ascending and descending).

In addition, with the simple switch between passive, active-assistive and active mode, the G-EO System can be adjusted to patients with different levels of impairment.

The G-EO System has proven to be an excellent addition to our facility. It has enhanced the progress of gait training for our patients with physical and neurological limitations at all ages.

Dr. Leann Kerr, PT, CBIS, DHS
Bellarmine University, Louisville, Kentucky

G-EO SYSTEM™
training more, more effectively
The G-EO System has proven to be an excellent addition to our facility. It has enhanced the progress of gait training for our patients with physical and neurological limitations at all ages.

Dr. Leann Kerr, PT, CBIS, DHS

Bellarmine University, Louisville, Kentucky
Take your first step with G-EO ENTRY

G-EO ENTRY offers the core rehabilitation functions of floor walking and partial movements in passive mode.

With adjustable settings such as cadence, step length, ankle angle as well as dynamic body weight support and center of mass movement, the G-EO System offers different applications in gait rehabilitation. Pre-defined disease specific programs allow maximizing available therapy time. Furthermore, a detailed reporting system tracks patient progress and allows the evaluation of data to improve current therapy methods.

The modular concept enhances the treatment possibilities to a variety of patient populations with different needs for adults and children.

The G-EO is a terrific robotic gait training tool. Easy to use and with great versatility this “end-effector” device allows training for stair climbing and descent.

Alberto Esquenazi, MD
Director, Sheerr Gait and Motion Analysis Laboratory
Moss Rehab, Elkins Park, PA
Functions
• Patient reporting
• One harness size
• Floor walking (passive)
• Partial movement
• Standard protocols
• Built-in foot sensors

Adjustable settings
• Step length
• Cadence
• Step width
• Ankle angle
• Max. speed 2.3 km/h (1.4 mi/h)
• Dynamic body weight support
• Horizontal hip activation

Patient Specifications
Height 140cm (4.6 ft.)
   to 200cm (6.5 ft.)
Max. weight 150kg (330 lbs.)

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Treat different patient indications

Rehabilitation throughout the continuum of care.

The G-EO System sets new standards in rehabilitation technology in terms of its great versatility, as it offers a wide range of different application possibilities. By choosing from a wide range of modules, the therapy can be tailored to the specific needs of each individual patient.

The G-EO System can be adjusted to patients with different levels of functional ambulation capabilities (ranging from FAC 0 to FAC 5).

FAC Functional Ambulation Category


G-EO SYSTEM™

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Subacute Stroke Patients - Therapy Comparison.

Conventional Therapy VS Treadmill Training w/wo BWS VS End-Effector Robotic Gait Training.

Conventional Therapy
50-100 steps

Treadmill Training w/wo BWS
300-400 steps

End-Effector Robotic Gait Training
1200-2000 steps

30’ session

Better Therapeutic Outcomes.

Two separate groups of 15 patients (subacute stroke FAC 0-2 at study start).

**END-EFFECTOR G-EO System**

- **10/15** Regain independency in walking at study end.
- **4/15** Were able to climb stairs at study end.

**CONVENTIONAL Physiotherapy**

- **4/15** Regain independency in walking at study end.
- **1/15** Was able to climb stairs at study end.


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Customize your G-EO

🌟 Trajectories
Selection of different therapy exercises including backwards walking, stairs and slope climbing - ascending and descending.

🌟 Active and Active-Assistive*
**ACTIVE**: patient’s self-initiation of the gait training by overcoming a pre-selected resistance.
**ACTIVE ASSISTIVE**: compensation of patient’s weaknesses in the initiation of the movement.

*Available on floor and stairs climbing - ascending

🌟 Pediatric
Treatment of children starting as small as 90 cm (3 ft.) weighing up to 75 kg (165 lbs.). Includes pediatric designed footplates, pediatric harness and cushion kit for feet adjustment.

🌟 Functional Electrical Stimulation (FES) by Hasomed®
Enhancement of muscle activation through multiple stimulation channels.

🌟 Knee Support
Additional knee stabilization during knee flexion and extension. Available in pediatric and adult configuration.

🌟 Visual Scenario
Enhanced visualization of patient performance along with additional therapy options of walking in synchronized trails.

🌟 Heart
Integration of pulse and blood oxygen saturation into the captured data.

🌟 Research
Collection of data for medical studies through sensor technology.

G-EO SYSTEM™
training more, more effectively
## G-EO System - Modular Platform

### Functions

<table>
<thead>
<tr>
<th>G-EO Entry</th>
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- Patient reporting
- One harness size
- Floor walking (passive)
- Partial movement
- Standard protocols
- Built-in foot sensors

### Modules

<table>
<thead>
<tr>
<th>Trajectories</th>
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| - Stairs up/down
- Slope up/down
- Backward walking

<table>
<thead>
<tr>
<th>Active / Assistive</th>
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</table>
| - Floor walking
- Stairs up

<table>
<thead>
<tr>
<th>Pediatric</th>
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<table>
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<tr>
<th>Functional Electrical Stimulation (FES)</th>
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<tr>
<th>Knee Support</th>
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<th>Visual Scenario (VS)</th>
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<th>Heart</th>
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<th>Research</th>
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### Settings

- Step length
- Cadence
- Step width
- Ankle angle
- Max. speed 2.3 km/h (1.4 mi/h)
- Dynamic body weight support
- Horizontal hip activation

### Consumables

- Harness (any size)
- Foot correction kit
- Hand support

### Patient Specifications

- Height 140cm (4.6 ft.) to 200cm (6.5 ft.)
- Max. weight 150kg (330 lbs.)
Clinical studies show superior results

The G-EO System is based on the clinically proven end-effector therapy concept.

The following publications show clinical evidence that patients who receive end-effector gait therapy have a significant higher rate of independent walking and are more likely to achieve superior gait ability compared to other therapeutic approaches.

<table>
<thead>
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<th>INDICATION</th>
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Ranging from severe neurological conditions to orthopedic gait dysfunctions, the **G-EO System suits for multiple patient indications**. The modular concept allows expanding the treatment possibilities to a variety of patient populations with different needs - for adults and children.

- **STROKE (SUBACUTE AND CHRONIC)**
- **PARKINSON’S DISEASE**
- **INFANTILE CEREBRAL PALSY (ICP)**
- **MULTIPLE SCLEROSIS**

## INDICATION | PUBLICATION | COMPARED TO | PRODUCT USED
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