Entry Point to the World of Robotic Gait Therapy
Increased Therapist Productivity

- Short patient set-up times
- Seamless adaptation of training parameters
- No interruption during therapy session
- More patient treatments per day

Better Therapeutic Outcomes

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

End-Effector Gait Therapy

10/15 regain independency in walking at study end

Conventional Physiotherapy

4/15 regain independency in walking at study end

Hesse S., et al., Robot-assisted practice of gait and stair climbing in nonambulatory stroke patients, JRRD, 2012; 49: 613-622

High Number of Repetitions per Session

“Who wants to relearn walking, has to walk”

Prof. Dr. Stefan Hesse
Head of Neurology, Medical Park Berlin, Germany
Co-developer of the G-EO System

Sub-Acute Stroke Patients - Therapy Comparison

End-Effector Robotic Gait Training
1200 – 2000 steps

Treadmill Training w/wo BWS
300 – 400 steps

30 min session

Conventional Therapy
50 – 100 steps

30 min session

1500 steps

500 steps

Hesse S. et al., Robot-assisted practice of gait and stair climbing in nonambulatory stroke patients, JRRD, 2012; 49: 613-622

Clinical References

Hesse S., et al., Robot-assisted practice of gait and stair climbing in nonambulatory stroke patients, JRRD, 2012; 49: 613-622
Smania N., et al., Improved Gait After Repetitive Locomotor Training in Children with Cerebral Palsy, CME Article, 2011; 2
Hesse S., et al., Innovative gait robot for the repetitive practice of floor walking and stair climbing up and down in stroke patients, JNER, 2010; 7
Entry Point to the World of Robotic Gait Therapy

NexStep is an easy to use device for functional rehabilitation of neurological and orthopedic gait disorders. The design allows the therapist to have increased patient interaction with flexible treatment options to create the most efficient therapy conditions for each patient. The NexStep offers a perfect solution for institutions seeking an opportunity to begin using robotic technology or to complement their existing traditional therapy.

Patient Comfort & Safety

The intuitive and simple concept of the patented end-effector technology of the NexStep allows a quick patient set-up and increases the patient’s comfort and safety during therapy. Full control over body position, dynamic body weight support and seamless adaptation of gait parameters - such as step length, walking speed and foot ankle angles - further improve treatment and give the therapist the ability to tailor the therapy to the needs of the patient.

Therapy Effectiveness

NexStep provides highly effective gait therapy technology and the possibility to perform intensive treatment with a high number of repetitions per session. A variety of parameters and training modes enable the therapist to maximize therapy outcomes for each individual patient. Simple change between various applications further improves therapy routines and reduces downtimes.

Institution Opportunities

The NexStep robotic gait trainer can be seamlessly integrated into daily therapy routines and increase not only the therapist’s productivity, but significantly enhance the efficiency of the clinic or hospital in general. The possibility to treat multiple patient indications with one device, further improves the institution’s allocation of resources.

Proven Therapy Technology

Reha Technology’s products are grounded in a deep clinical heritage that allows us to provide the most advanced and effective robot-assisted systems for gait rehabilitation. The NexStep robotic gait trainer is based on the clinically proven end-effector therapy concept (G-EO System by Reha Technology). 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.

More Value for Your Therapy Environment

Patient Comfort & Safety

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Supervision by one therapist

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• Intuitive and quick patient set-up
• Full control over body position
• Unrestricted access to the patient during therapy
• Seamless adaptation of gait parameters

• High number of repetitions per session
• Maximizing therapy time
• Simple witch between therapy modes
• Quick access to patient’s therapy data

• Increased therapist productivity
• Cost effective and optimized resource allocation
• Treatment of multiple patient indications
• Wide range of application
Intuitive Interface & Versatile Software

Based on the G-EO System graphical user interface the NexStep GUI offers a similar intuitive access to a variety of treatment options. The versatile software has been continuously improved since 2011 in a close collaboration with therapists and doctors all over the world.

Seamless adjustments of all parameters improve the therapy experience for both the patient and the therapist, as there are no interruptions during treatment due to time-consuming mechanical adjustments of the device, as all the settings are controlled over the software interface.

- Full control over body position
- Seamless adaptation of gait parameters
- Quick access to patient’s therapy data
- Security measures to prevent misuse

Technical Data & Specifications

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<thead>
<tr>
<th>Specification</th>
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<tbody>
<tr>
<td>Length</td>
<td>310 cm (10'2&quot;)</td>
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<tr>
<td>Width</td>
<td>204 cm (6' 8&quot;)</td>
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<tr>
<td>Height</td>
<td>240 cm (7'10&quot;)</td>
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<td>Weight</td>
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<td>Power supply</td>
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<td>Max. Speed</td>
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<tr>
<td>Max. step cadence</td>
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<tr>
<td>Max. step length</td>
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<td>Ankle angle range</td>
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Patient Requirements

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<td>Min. body height</td>
<td>110 cm / 3'7&quot;</td>
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<tr>
<td>Max. body height</td>
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<tr>
<td>Max. body weight</td>
<td>200 kg / 440 lbs.</td>
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</tbody>
</table>
Reha Technology AG is distributing products through a worldwide distributor network and direct operations. This network is continuously being expanded; the following world map illustrates current activities in a global perspective:

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