



tyromotion

LEXO®

The new standard in
robotic gait training

TYROTHERAPY
GET BETTER.
EVERY DAY.

LEXO® IS ENGINEERED, DESIGNED,
AND MANUFACTURED IN AUSTRIA.

LEXO[®]

In robotic gait rehabilitation, patients and therapists often face the same challenges. Loss of precious time to due tedious set up procedures, limitations in the adaptability to the patient, and unnatural walking patterns. LEXO[®] is the long-desired gamechanger – the end-effector system allows free joint movement, encourages the patient’s self activity, and increases the utilization rate. The innovative transfer options maximize net therapy time, providing what is needed most: direct therapist-patient interaction.

Why LEXO[®]?

- Strong evidence for end-effector gait training
- Easy and fast setup as a paradigm shift in currently available robotic gait rehabilitation
- Demands patients’ self-activity
- Compact design and low height makes it perfect for any therapy room



MODERATE SEVERE



LOWER BODY



ENDURANCE AND STRENGTH



WALKING ABILITY AND BALANCE



SENSOR



ROBOTIC



ACTIVE

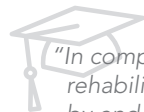


PASSIVE



ASSISTIVE





"In comparison to conventional gait rehabilitation, gait training assisted by end-effector apparatus leads to a statistically significant and clinically relevant improvement in gait velocity and maximum walking distance after stroke."

1 MEHRHOLZ, 2018

LEXO[®]

Therapy



Innovative transfer modes



Different body weight support modes



PELVIS PLUS guidance



Passive-active walking mode



Seamlessly and electrically adjustable settings



Task-oriented training



Augmented Performance Feedback



Virtual Environment

Active training mode

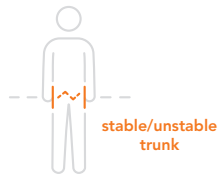
- Demanding self-activity
- Training of physiological walking pattern
- Highly engaging for the patient
- Specific gait training (initial contact, stance phase, swing phase)



Active step initiation by weight shifting and weight bearing

High adaptability

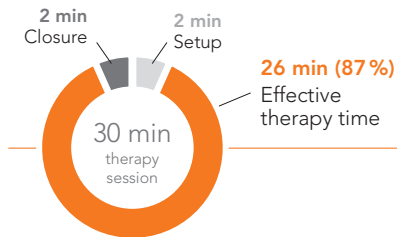
- Lateral and vertical guidance with PELVIS PLUS system
- Innovative body weight support modes
- Wide range of patients



LEXO[®] pushes the boundaries of robotic gait training.

Efficient use of therapy time

EASY AND FAST SETUP*



* with transfer board

Increase
net therapy time



Decrease costs
Only 1 therapist needed
High utilization rate



3

Components of TyroTherapy:



Intensity



Dose



Motivation

TYROTHERAPY LOWER EXTREMITY

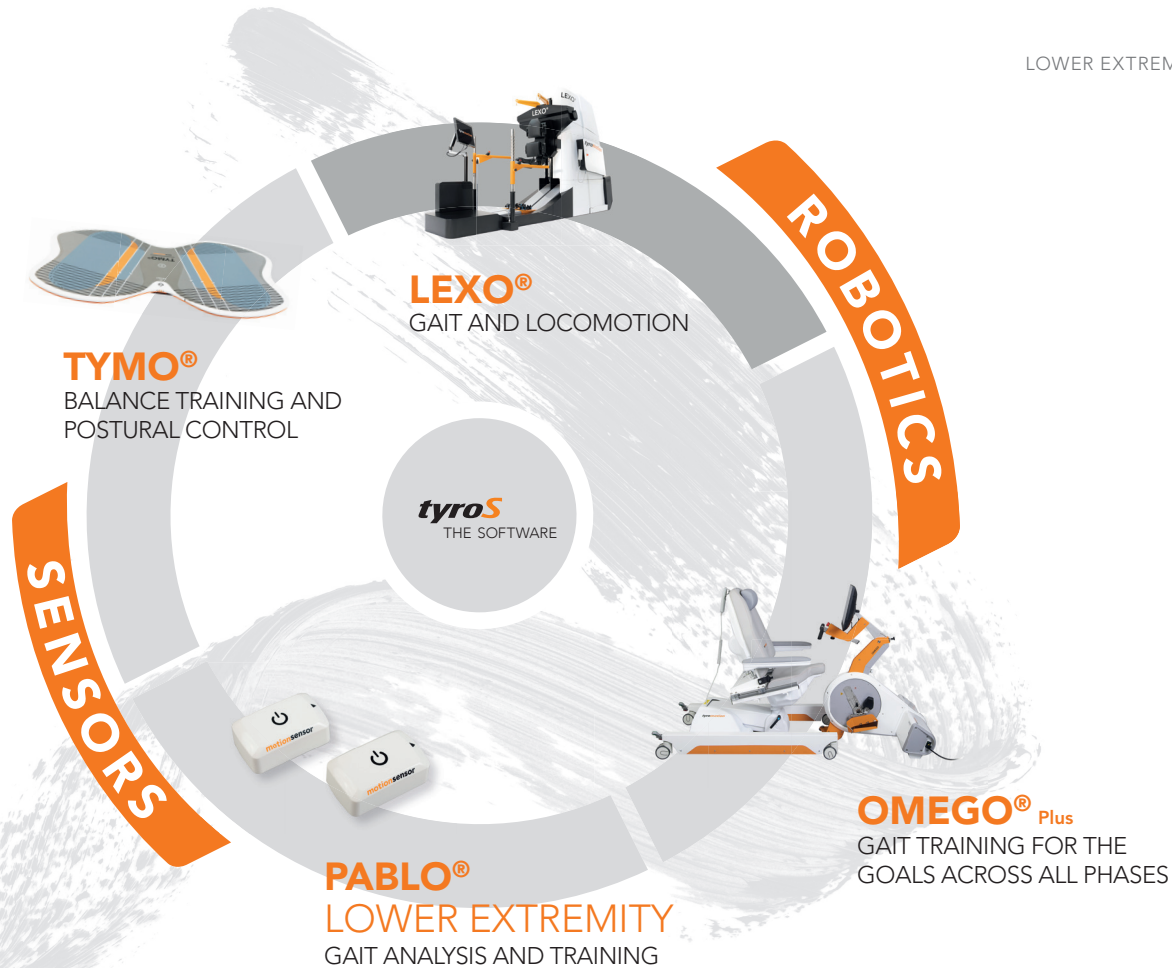
TyroS

The TyroS software has been developed in close cooperation with therapists. It is the heart of the Tyromotion technology and combines devices, know-how,

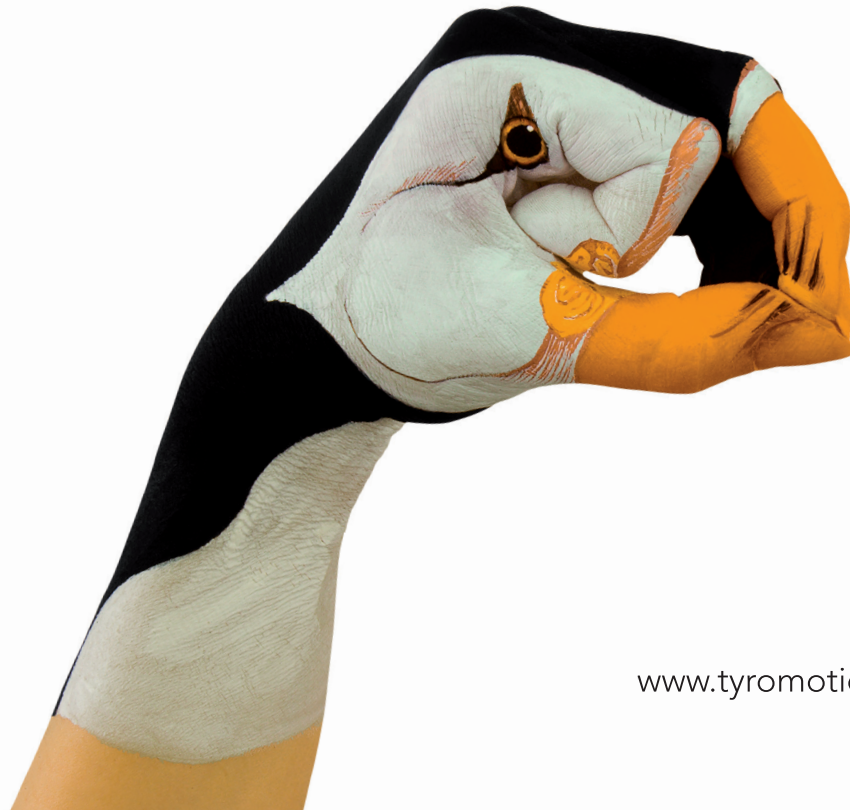
and therapeutic games. It is a sophisticated therapeutic system that helps challenge and encourage patients.

- One software to control all of Tyromotion's devices
- Comprehensive patient view across devices
- Motor learning principles and task-oriented training
- Motivational therapeutic gaming environment
- Intuitive and easy to learn

¹ Mehrholz J, Pohl M, Kugler J, Elsner B: The improvement of walking ability following stroke — a systematic review and network meta-analysis of randomized controlled trials. *Dtsch Arztebl Int* 2018; 115: 639–45.



tyromotion



TYROMOTION

Tyromotion GmbH
Bahnhofgürtel 59
8020 Graz, AUSTRIA

+43 316 908 909
office@tyromotion.com

www.tyromotion.com

07/20
EN