Scientifically Proven Rehabilitation Devices for Effective Gait and Arm Training
Reha-Stim Medtec has been established in 1999 in Berlin by Prof. Dr. S. Hesse and pioneered the development of modern neurorehabilitation devices for gait and arm training. Through the merger with Yourehab AG as well as the strategic partnership with LME AG and Sprintex GmbH, we have expanded our portfolio with game-based devices, a slat-belt treadmill and a unique overground gait training system, The FLOAT.

Our mission is to develop scientifically well-founded rehabilitation devices that assist therapists in their daily work most effectively. We translate the progress and clinical experience gained in the past 20 years into scientifically proven devices to support rehabilitation after stroke or incomplete paraplegia as well as orthopedic surgery. Reha-Stim Medtec devices are science-based, yet uniquely practical and easy-to-use.

_Innovation led by the pioneers of neurorehabilitation_

We are proud to continue the legacy of Prof. Dr. S. Hesse and further develop his simple yet exceptionally effective rehabilitation devices. The team around Prof. Dr. Stefan Hesse developed devices such as the Gait Trainer GT I, the Arm Trainer Bi-Manu-Track or the Finger Trainer Reha-Digit.

Prof. Dr. Arm in Curt, the Director of the Spinal Cord Injury Center at Balgrist and his team in Zurich initiated and co-developed The FLOAT, a novel and unique 3-dimensional overground walking training system.
Comprehensive and scientifically proven therapy solutions

The Gait Studio

The Gait Studio comprises therapy devices for all lower extremity impairments. The new generation GT II offers robust therapy assistance for highly paretic patients, while the treadmills from Sprintex help regain the walking ability of lightly affected patients. The FLOAT represents a uniquely innovative and flexible complement.

The Arm Studio

Our Arm Studio has proven to meet perfectly the needs of OT / PT offices as well as of any clinical setup. From shoulder to finger trainings, we offer rehabilitation devices that work with an isolated movements’ approach to maximize training efficiency.

The Arm Studio developed by Prof. Dr. Stefan Hesse offers excellent opportunities for a modern, evidence based and cost efficient neurorehabilitation. The distal and end-effector based approach of all arm studio devices offers optimal conditions for a fast and successful rehabilitation of patients.

Björn Stritzinger
CEO, Founder, PT & OT
“Learning to walk by walking“ - following the mantra of Prof. Dr. S. Hesse, we offer a comprehensive gait studio with the next generation of the GT 1, the Sprintex TM treadmill and the unique 3-dimensional overground gait training system, The FLOAT. The goal is to improve the ability of patients to relearn walking by repetitive and intensive training with flexible therapy scenarios in a safe environment. uniquely practical and easy-to-use.

Suitable solutions for every rehabilitation phase

GT II
The next generation Gait Trainer for heavily affected patients.

The FLOAT
The next generation overhead training device with 360 degree freedom of movement.

Callis Treadmills
The treadmills from Sprintex help restore and maintain the general gait and walking ability.
The Gait Trainer GT II

Comprehensive and scientifically proven therapy solutions

The end effector based Gait Trainer GT II offers a safe, intensive and repetitive locomotion therapy and thus an ideal and cost efficient training for heavily affected neurological and orthopedic patients.

The GT II is based on the well known pioneering GT I which has been the pioneer and is scientifically proven in extensive studies and in clinical use for more than 20 years.

What is new in GT II

- Convenient electric lifter
- Intuitive touch display to control steps, time, speed, direction and body weight support
- Patient management and training documentation support
- Modern yet simple design

Safe training environment

Several redundant safety mechanisms ensure an absolutely safe environment for patients which allows a training without fear to get injured.

Frequent repetitive movements

Frequent repetitive movements activate the various locomotion centers in our body and enable a motor learning as well as increase training intensity which accelerates rehabilitation.
The FLOAT is a the world’s first dynamic multidirectional overhead body weight support (BWS) system that supports patients with gait impairments from stroke, incomplete SCI, Parkinson or others in the training and rehabilitation of their natural locomotion after the initial ability to walk is restored.

The FLOAT

- 360 degree freedom of movement: forward/backward, sideward, up/down and turning around
- Horizontal assistive forces (HAF) for natural gait training
- Free access to patients during training
- Safe fall prevention
- Easy, intuitive user interface

Flexible training scenarios

Both The FLOAT and FLOAT Compact can be combined with a treadmill or tools like stairs, ramps, balance plates or augmented reality projectors.

Body weight support & fall prevention

Dynamic body weight support enables an active rehabilitation for heavily impaired patients and ensures a risk-free environment for “Activities of Daily Living” training.
Depending on the available space, we offer two options: The FLOAT and FLOAT compact. The FLOAT allows a complete freedom of movement in all directions within a 15x5x3m space. The FLOAT Compact has been designed with space limitations in mind while retaining all functionalities except sideward movement.

**The FLOAT compact**

- 360 degree freedom of movement: forward/backward, sideward, up/down and turning around
- Horizontal assistive forces (HAF) for natural gait training
- Free access to patients during training
- Safe fall prevention
- Easy, intuitive user interface

**Augmented Reality**

Beside the Activities of Daily Living, the patients can be further challenged with augmented reality based exercises.

**Intuitive user interface**

Fast and flexible training start and control as well as freely adjustable training templates for maximum effectiveness and optimal results.
CALLIS

CALLIS – THERAPIE suitable for physically disabled but ambulatory patients. Usage in the rehabilitation sector for re-gaining and maintaining the general walking and running ability as well as for building up muscular strength, endurance and physical fitness.

- Height and width-adjustable handrails
- Holder for personal protection
- Shoulder support and shoulder support for children

Various options available to modify the system to your particular needs.

- Slat-belt running surface 155 cm x 50 cm s²ap® (Sprintex - shock absorbing profile)
- Speed 0 km/h – 13 km/h
- Regulation to extreme slow speed
- Display for speed, inclination, time, distance and puls
- Handrail on both sides
- Breaked running surface
- Emergency stop
CALLIS – TRAC 60 E suitable for physically very disabled and non-ambulatory patients. Usage in the rehabilitation sector for locomotion therapy, recovery and reconnecting of neuronic and muscular structures as well as for building up muscular strength, endurance and physical fitness.

- Slat-belt running surface 155 cm x 50 cm $s^2ap^®$ (Sprintex - shock absorbing profile)
- Patient-lift-system with remote- and weight control
- Speed 0 km/h – 13 km/h
- Regulation to extreme slow speed
- Display for speed, inclination, time, distance and puls
- Handrail with bridge incl. adjustable suspension points
- Rehab support belt size M
- Emergency stop

Various options available to modify the system to your particular needs.

- Step tread
- Ramp and shoulder support
- Removable handrail keyboard
The Arm Studio offers a scientifically proven set of arm and hand therapy devices that assist therapists in the treatment of severely to moderately affected patients. It comprises the Bi-ManuTrack, the Reha-Slide and the Reha-Digit for highest possible stimulation intensity for hand, arm and finger training. The new Bi-Manu-Trainer device based on VR game training complements the concept.

**Reha-Slide**
A simple state-of-the-art therapy assisting device for repetitive shoulder, elbow and wrist training

**Reha-Slide Duo**
An ideal complement to the Reha-Slide where the patient can perform exercises independently with both arms

**Bi-Manu-Trainer**
A proven therapy assisting device for highly paretic patients for repetitive training of wrist and
The Arm Studio is a unique concept with:

- a complete set of simple yet effective and cost-efficient therapy devices
- proven setup for OT / PT as well as for clinics
- scientifically proven methods
- isolated movements’ approach based on neurological principles
- new developments for light impairments with motivating game-based hand training

for every need

Track
Therapy assisting highly paretic patients for repetitive training of forearm

Bi-Manu-Trainier
It provides interactive unimanual and bimanual training exercises with focus on visuomotor finger, hand and arm coordination using VR based games

Reha-Digit
Therapy device focusing on stimulating the mechano-receptors in the fingers
Evaluation Tools

With our scientifically proven evaluation tools, you will be able to measure the progress of your patients and thus continuously optimize your therapy.

**ARAT**

A 19 item measurement system, divided into 4 categories: grasp, grip, pinch and gross movement. Tasks are arranged in order of decreased difficulty to improve testing efficiency.

**Box & Block Test**

For measurement of unilateral gross manual dexterity. The patient has 60 seconds to move the blocks from one side to the other. No standard training required.

**Nine Hole Peg Test**

For measurement of finger dexterity. The patient has to remove/insert the pegs in the holes. No standardized training required.