WE MOVE YOU

Hocoma
a DIH brand

LOKOMAT®PRO

EMPOWERING REHABILITATION

RELEARNING TO WALK
WITH MOTIVATION
AND SENSATION

EFFECTIVE MOVEMENT TRAINING[1]

Robot-assisted therapy enables effective and intensive training by providing a high number of task-specific repetitions, which is an essential factor underlying neuroplasticity and improved functional outcome.

ADJUSTABLE TO PATIENT NEEDS

The physiological movement is ensured by the individually adjustable lower extremity orthosis and is combined with the patented dynamic body weight support system.

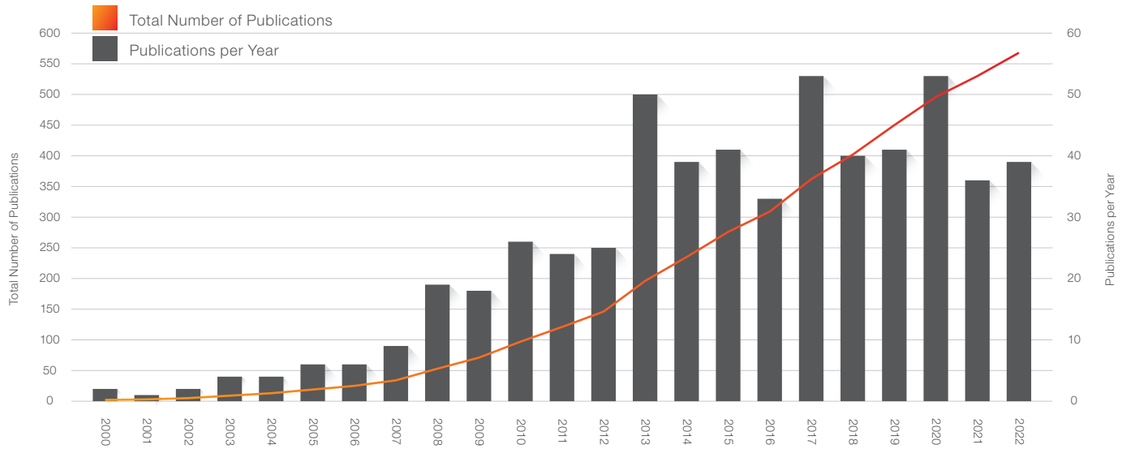
MOTIVATING PATIENT *challenge*

During rehabilitation, patients need to be challenged in their present individual capabilities and beyond. Speed, body weight support and robotic support can be adjusted to shape the intensity of the therapy and adapt to the patients' individual needs.

Patients are motivated to reach their goals with various virtual reality-based game-like exercises Their level of activity influences the performance of the task, the movement pattern and the speed.

Multiple guidelines suggest the combination of robot-assisted gait training with virtual reality to further improve lower limb motor outcomes.[1]

LOKOMAT THERAPY IS BACKED UP BY 20 YEARS OF CLINICAL RESEARCH



Learn from your peers!

For more information about Clinical Evidence, Education and Experiences with Hocoma solutions visit:
knowledge.hocoma.com

STATE-OF-THE-ART
gait rehabilitation

Patients are increasingly more informed about what the most effective and efficient therapy is, and they use this information to decide where to go for their rehabilitation.

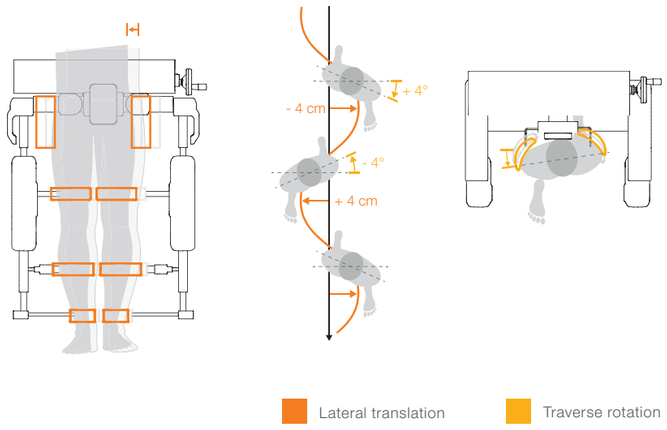
All patients look to receive the most effective training possible and the Lokomat ensures high quality and repetitive movement rehabilitation—a great reason why a patient might decide on your clinic.

INCREASED EFFICIENCY

The Lokomat relieves the therapist from manually supporting the patient while walking and therefore allows therapists to focus on the patient and the actual therapy. To provide Lokomat training, only one therapist is needed. This may enhance the efficiency of your clinical setting.

LATERAL FREEDOM

The optional FreeD module supports:
· Guiding lateral translation
· Transverse rotation of the pelvis



WHAT **EXPERTS** *say*

We're able to get patients walking up to 30, 40 minutes, which is a massive difference compared to what we're able to do without the Lokomat. One aspect that I personally like is the fact that the robot and the treadmill change speed according to the effort that the patient is putting in. I found that to be really beneficial and motivating to the patients.

Tamsin Reed
Physiotherapy Clinical Lead, The Wellington Hospital, UK

"The Dance excercise is great for postural cues as well as cues for effort. In the adaptive gait support, I liked the specific data about where in the gait cycle the patient was having difficulty, it led to a nice discussion about gait with my patient."

Colin B.
PT Spaulding Rehab Hospital
Charlestown US

"I used the audio cueing often at the beginning of the session to give my patients a rhythm for walking. Especially severely impaired patients relaxed with the audio cueing and then the rest of the therapy went much smoother."

Anne Gehrig
Anne Gehrig - PT Revigo, Switzerland

PEDIATRIC MODULE

child's play

The LokomatPro can be fitted with standard orthoses for adults or with pediatric orthoses, which are available as an optional module.

The pediatric orthosis are designed to accommodate small children by offering a special set of harnesses and cuffs that provide a precise fit for patients with femurs between 21 and 35 cm (8.3 – 13.8 in).
The two interchangeable sets of orthoses can be easily swapped out by the therapist and both offer the same wide range of therapy benefits.

> “After Lokomat Training, Carson was just flying! His mobility was better and he was so much more self-confident.”

Mother of Carson Rush

CP Patient in USA

> “Thanks to the intensive training on the Lokomat, Nele can walk and has more confidence in daily life activities.”

Mother of Nele Kohlof

CP Patient in Germany

Scan to discover more

LOKOMAT®PRO *Motivation*

The **LokomatPro Motivation** is the device you need to **engage** your **patient during therapy** while offering various games that challenge: Attention, Movement Symmetry, Activity Timing and Endurance. All sessions can be different and it's up to the therapist to pick the best option to motivate the patients and address their goals. The **LokomatPro Motivation** offers:

- Training programs for Speed variability
- Training programs for BWS variability
- Automatic difficulty adaptation for motivating challenge
- Activity calibration for optimal adaptation to the patient's abilities
- Augmented performance feedback in real time
- Body weight supported treadmill training without orthosis

Adult, pediatric or combined *versions available*

LOKOMAT®PRO *Sensation*

Scan to discover more

With the **LokomatPro Sensation**, patients will benefit from the most advanced technology developed by Hocoma to enhance the training while **bringing new sensations** to the session. From audio to augmented performance feedback and virtual reality, the trainings can be more individually created than ever, truly customized to different needs and interests. **LokomatPro Sensation** gives access to 19 virtual reality-based game-like exercises, audio and music integration, difficulty adaptation, automated assisted-as-needed therapy, challenging training programs and much more…

feel

Intelligent Algorithms: Create motivating customized challenge and allow patients to experience their performance.

hear

Music synced with therapy to boost motivation and engagement.

see

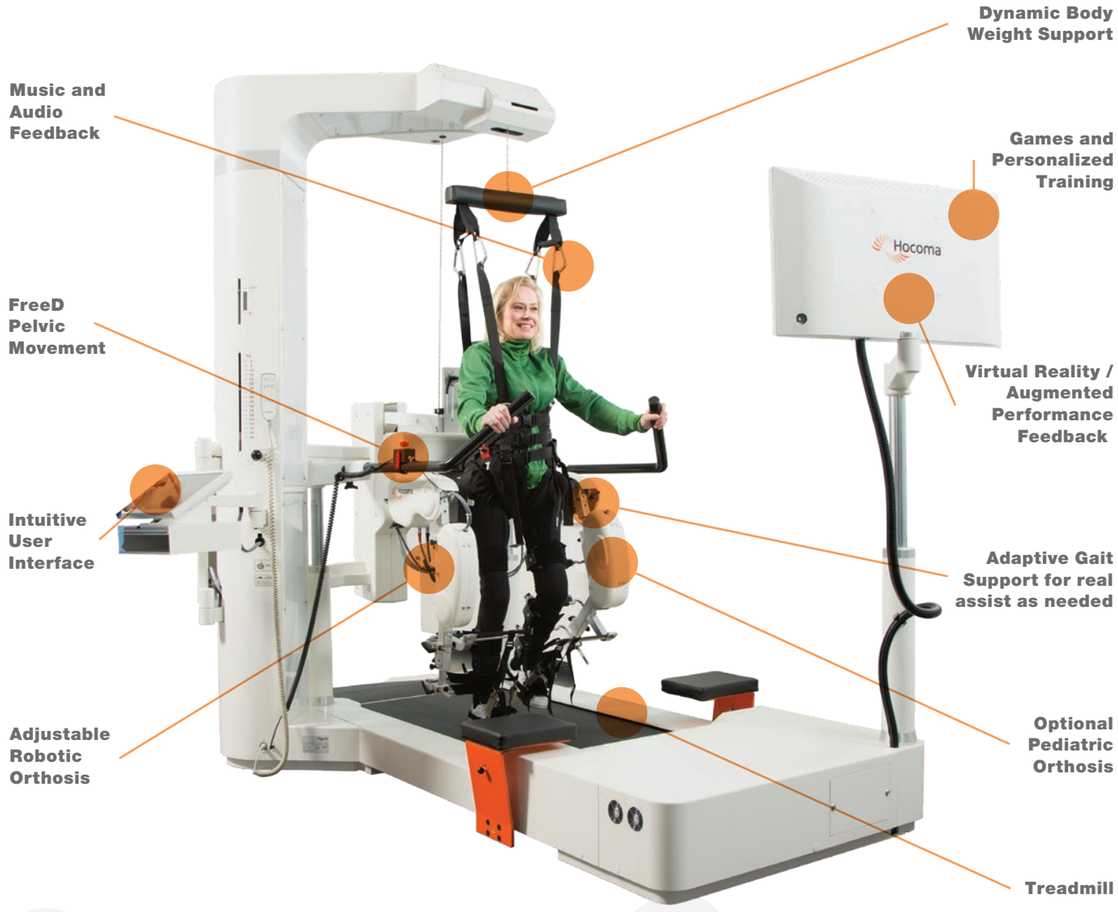
Personalized training, seeing results and progression in various exercises.

The Lokomat is the world‘s leading robotic medical device that provides physiological and intensive rehabilitative movement training.
The LokomatPro offers two options in the product line, tailored to your needs.

Motivation x *Sensation*

FEATURES	MOTIVATION*	SENSATION
Adult and pediatrics	✓	✓
FreeD module	X	*optional*
Automatic difficulty adaptation	✓	✓
Avatars and sound supported exercises	✓	✓
Decreased robotic assistance exercises	X	✓
Automated adaptive gait support	X	✓
Auditory cueing and music integration	X	✓
Virtual reality-based game-like exercises	7	16
Training programs	2	3

*Possibility to upgrade



DIMENSIONS

– Space [L × W]:
325 cm × 155 cm (127.95 × 61 in.) (swivel door closed)
350 cm × 214 cm (137.8 × 84.3 in.) (swivel door open)

– Height (without FreeD module):
239 cm (94.1 in.) without extension
246 cm (96.9 in.) with extension

– Height (with FreeD module):
247 cm (97.2 in.) without extension
254 cm (100 in.) with extension

– Weight: 1000 kg (2204 lb.)

SPACE REQUIREMENTS

– Without FreeD module [L × W × H]:
5 m × 4 m × 2.5 m (196.9 in × 157.5 in × 98.4 in)

– With FreeD module [L × W × H]:
5 m × 4 m × 2.6 m (196.9 in × 157.5 in × 102.4 in)

PATIENT REQUIREMENTS

– Patient weight max. 135 kg (297.6 lb.)

– Patient height max. 200 cm (78.74 in.)
195 cm (76.7 in) without extension

REFERENCES

[1] Hocoma data on file, as of Nov. 2022

[2] Calabró, R. S., et al. (2021). "Robotic-assisted gait rehabilitation following stroke: a systematic review of current guidelines and practical clinical recommendations." Eur J Phys Rehabil Med.

PRODUCT DISCLAIMER

WE ARE THE TOTAL SOLUTION PROVIDER FOR REHABILITATION

We offer efficient solutions and services with advanced technologies for human movement therapy across the entire continuum of rehabilitation: from severe to mild impairments and from acute treatment to continuous training at home. All our solutions are developed, manufactured and continuously improved in close cooperation with researchers and clinical partners.

THE CONTINUUM OF GAIT REHABILITATION

discover our extensive portfolio of gait and balance solutions

ERIGO

Safe verticalization and early functional mobilization. The Erigo gradually brings the patient into an upright position while moving the legs and applying cyclic leg loading.

LOKOMAT

The worlds leading robotic medical device that provides physiological and intensive rehabilitative gait training to patients with severe to moderate impairments.

ANDAGO

Andago allows patients to walk self-determined and unrestricted. It bridges the gap between treadmill-based gait training and overground walking.

C-MILL

The C-Mill product line consists of cutting-edge balance and gait treadmills. Designed to stimulate every-day scenarios through augmented and virtual reality, for interactive, dynamic and dual tasking exercises.

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