

WE MOVE YOU



# LOKOMAT<sup>®</sup>PRO *Sensation*

## EMPOWERING REHABILITATION

RELEARNING TO WALK  
WITH NEW SENSATIONS



## EFFECTIVE GAIT TRAINING

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.

Lokomat therapy leads to clinically relevant improvements in the following outcomes in patients with severe to moderate impairments in walking abilities and functional mobility<sup>1</sup>:

- Walking speed
- Cardiovascular fitness
- Functional ambulation
- Walking endurance
- Balance
- Functional mobility



## MOTIVATING PATIENT challenge

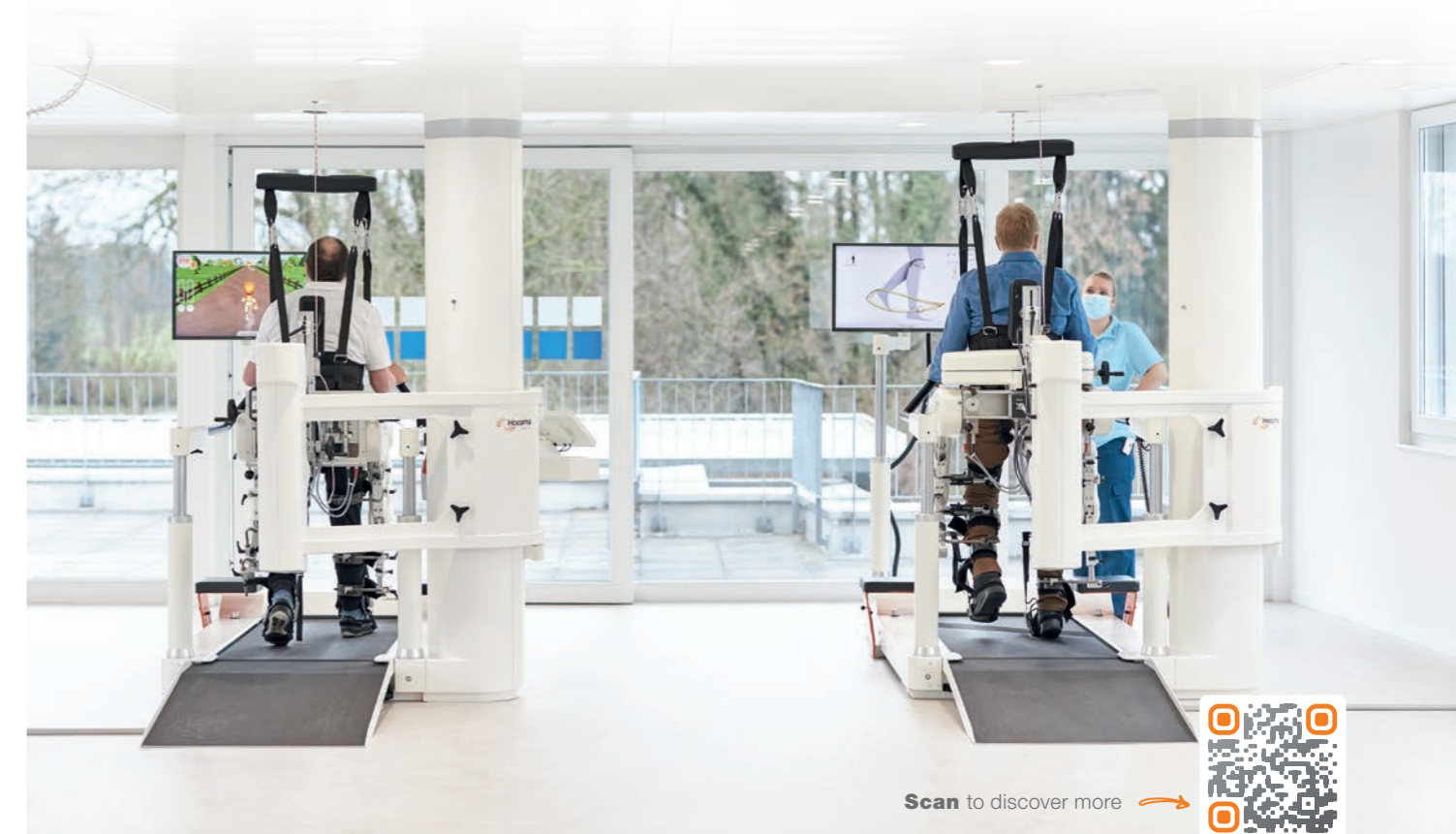
During rehabilitation, patients need to be challenged in their present individual capabilities and beyond. Speed, body weight support and robotic support can be adjusted to shape the intensity of the therapy and adapt to the patients' individual needs.

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 gait pattern and the speed. Multiple guidelines suggest the combination of robot-assisted gait training with virtual reality to further improve lower limb motor outcomes.<sup>2</sup>

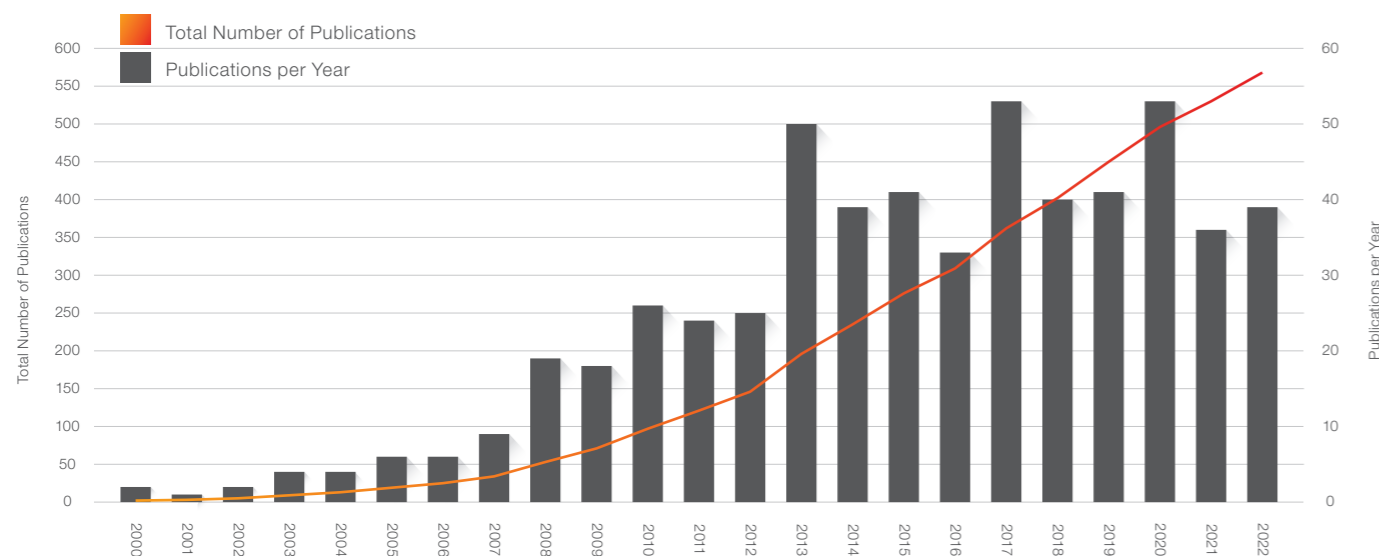


## ADJUSTABLE TO PATIENT NEEDS

The physiological gait pattern is ensured by the individually adjustable exoskeleton combined with the patented dynamic body weight support system.



## LOKOMAT THERAPY IS BACKED UP BY 20 YEARS OF CLINICAL RESEARCH

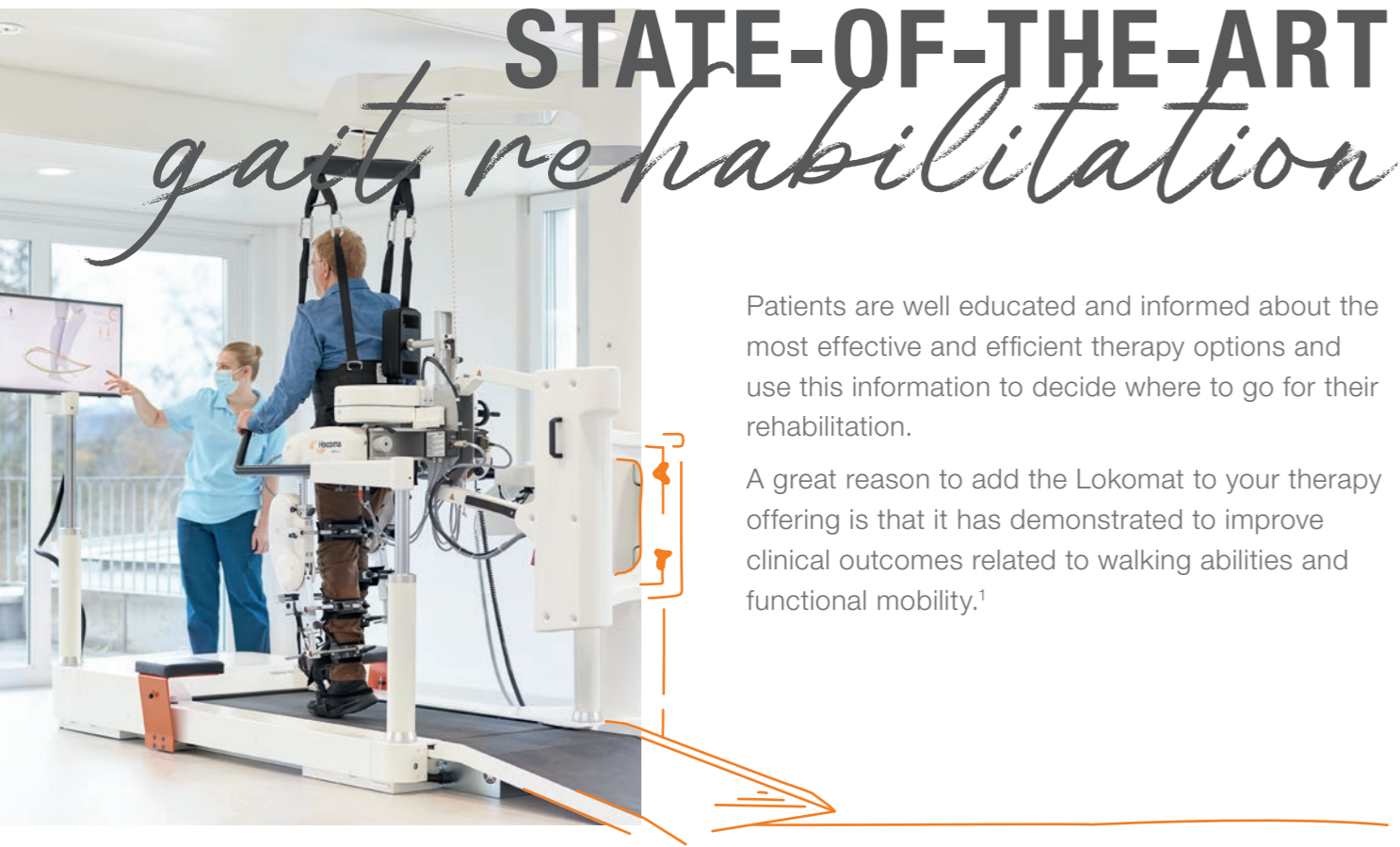


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# STATE-OF-THE-ART *gait rehabilitation*

Patients are well educated and informed about the most effective and efficient therapy options and use this information to decide where to go for their rehabilitation.

A great reason to add the Lokomat to your therapy offering is that it has demonstrated to improve clinical outcomes related to walking abilities and functional mobility.<sup>1</sup>

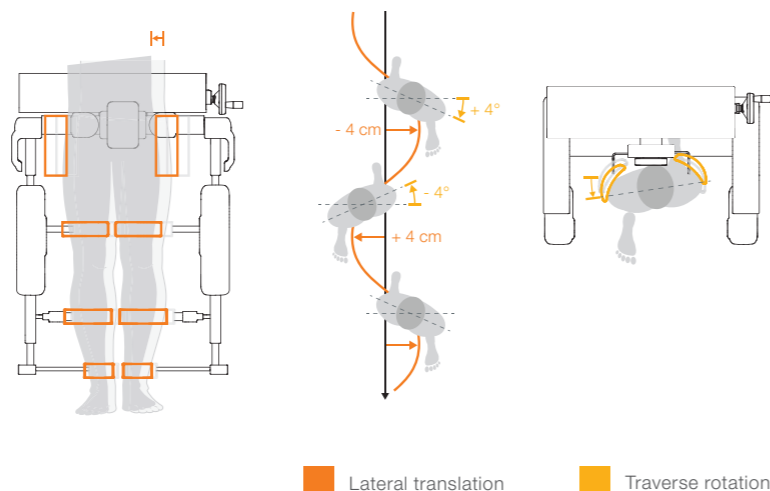
## INCREASED EFFICIENCY

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 makes therapy even more physiological by allowing for lateral translation and transverse rotation of the pelvis. The patient's ability to shift their weight completely over their stance leg and thereby activate their core muscles and experience balance aspects is crucial in relearning to walk independently.

Available for adult and pediatric orthosis.



## 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 exercise 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

# LOKOMAT®PRO *Sensation*

With the **LokomatPro Sensation**, the therapy plan can be created more individually than ever, truly **customized to different patient needs and interests**. The therapists and patients benefit from a more varied library with more options inside the different therapeutic goals in order to provide a **continuous motivating** and **engaging intensive gait training**.

- New exercises
- Difficulty adaptation in existing exercises
- Revolution in assist as needed therapy
- Challenging training programs and much more...
- Audio and music feedback



*feel* **Create motivating customized challenge and allow patients to experience their performance.**

Intelligent algorithms automatically adapt the therapy parameters according to the performance. Therefore, patients feel the changing difficulty level and remain challenged.



*hear* **Music synced with therapy to boost motivation and engagement.**

Fun and Motivating music with Audio Feedback - patients hear their performance.



*see* **Personalized training, seeing results and progression in various exercises.**

More Therapy options and more exercises to individually shape the training.



## 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

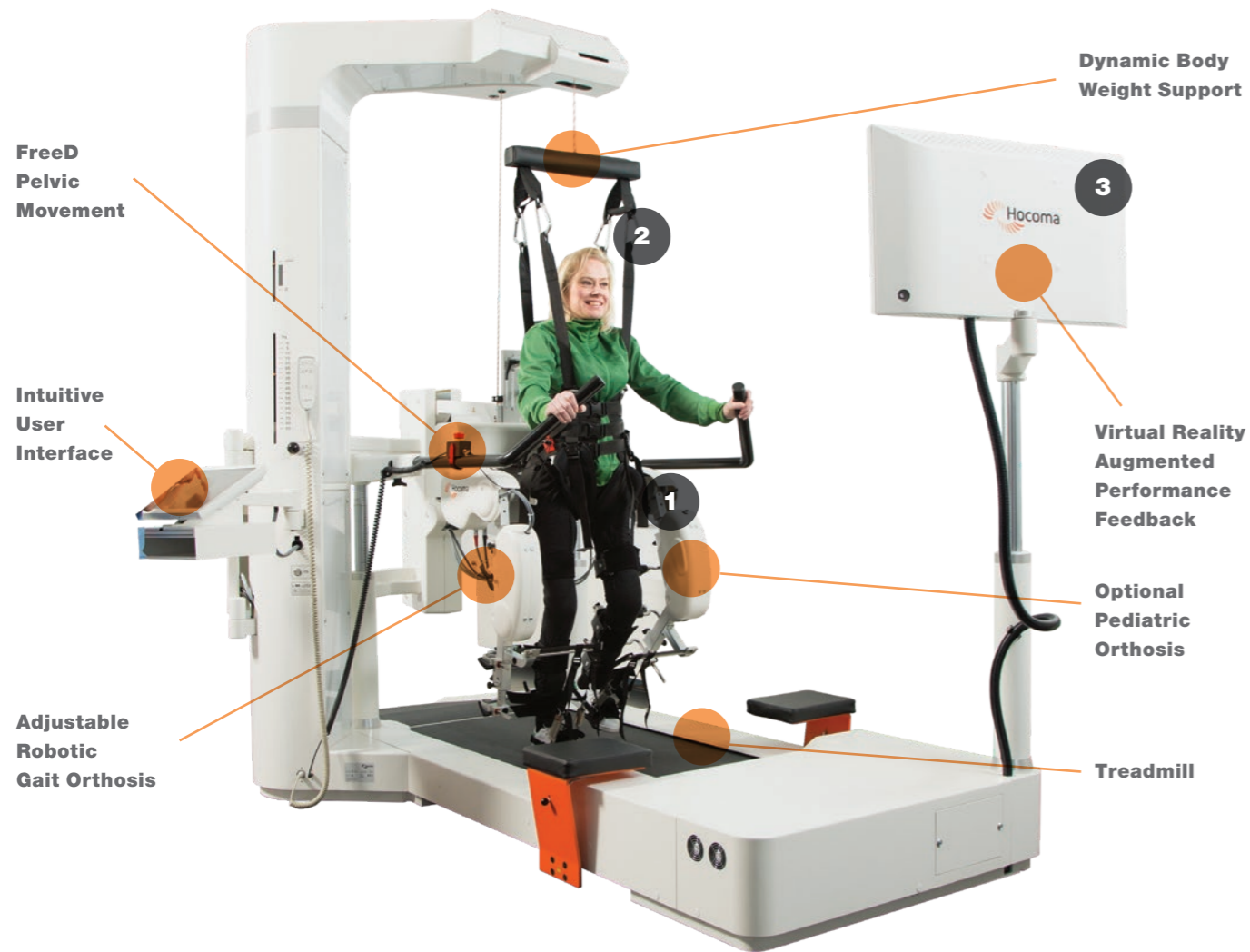


“ An official statement considered my daughter Nele to be untreatable. Thanks to the intensive training on the Lokomat, Nele can walk right now and has more confidence in daily life activities. ”

### Mother of Nele Kohlof

CP Patient in Germany





**1 Adaptive Gait Support for real assist as needed**

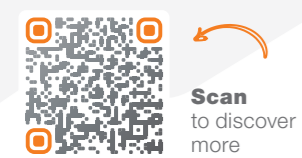
- DIMENSIONS**
- **Space [L x W]:**  
325 cm x 155 cm (127.95 x 61 in.) (swivel door closed)  
350 cm x 214 cm (137.8 x 84.3 in.) (swivel door open)
  - **Height (without FreeD module):**  
239 cm (94.1 in.) without extension  
246 cm (96.9 in.) with extension
  - **Height (with FreeD module):**  
247 cm (97.2 in.) without extension  
254 cm (100 in.) with extension
  - **Weight: 1000 kg (2204 lb.)**

**2 Music and Audio Feedback**

- SPACE REQUIREMENTS**
- **Without FreeD module [L x W x H]:**  
5 m x 4 m x 2.5 m (196.9 in x 157.5 in x 98.4 in)
  - **With FreeD module [L x W x H]:**  
5 m x 4 m x 2.6 m (196.9 in x 157.5 in x 102.4 in)

**3 Games and Personalized Training**

- 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**

<sup>1</sup>Hocoma data on file, as of Nov. 2022

<sup>2</sup>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.

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# 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 world's 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 everyday scenarios through augmented and virtual reality, for interactive, dynamic and dual tasking exercises.

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