

## Technical Data Lokomat®Pro

**Version:** 6

**Device description:** The Lokomat is a driven gait orthosis that automates locomotion therapy on a treadmill and improves the efficiency of treadmill training. The Lokomat improves the therapy outcome by providing highly intensive, individualized training in a motivational environment of constant feedback.

**Key Features:**

- Driven orthosis (gait robot) with electrical drives in knee and hip joints with 4 force transducers with 4 amplifiers.
- Orthosis is adaptable to subjects with femur lengths (trochanter to knee joint cavity) of 35 - 47 cm (13.8 - 18.5 inch) and pelvic width (when used without FreeD module) of 29 - 51 cm (11.4 - 20.1 inch).
- Augmented Performance Feedback with functional exercises and entertaining games for patient motivation.
- Assessment and Reporting Tools to record patient performance.
- Optional Pediatric Orthoses, adaptable to small children with femur lengths (trochanter to knee joint cavity) 21 - 35 cm (8.3 - 13.8 inch) (and pelvic width 17 - 28 cm (6.7 - 11 inch).
- Optional FreeD module for driven pelvis movements (pelvic width 29 - 40 cm), passively guided hip abduction/adduction movements and laterally synchronized body weight support.

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**Treadmill:**

- Speed range 0 - 10 km/h (with Lokomat max. 3.2 km/h)
- Height and width of both hand rails independently adjustable
- Adjustable seats for therapists
- System ramp compatible with commonly used wheelchairs

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**Body Weight Support Levi:**

- Electrically operated patient lift with static and dynamic unloading
- Patient weight max. 135 kg (297.6 lbs)
- Body weight support range 0 to approx. 85 kg (187.4 lbs), continuously adjustable without training interruption
- Almost constant weight support and low inertia forces (patent pending)
- Computer-controlled via the operating unit of the Lokomat
- Electronic display of patient and unloading weight

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**Mains connections:**

- 2 x 220 - 240 V~ / 50 - 60 Hz
- 2 x 110 - 120 V~ / 50 - 60 Hz

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**Weight:**

- Approx. 1000 kg (2204 lbs)

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<b>Dimensions:</b>	Space (L x W) <ul style="list-style-type: none"><li>• 325 cm x 155 cm (127.95 x 61 in) (swivel door closed)</li><li>• 350 cm x 214 cm (137.8 x 84.3 in) (swivel door open)</li></ul> Height (without FreeD module) <ul style="list-style-type: none"><li>• 239 cm (94.1 in) without extension</li><li>• 246 cm (96.9 in) with extension</li></ul> Height (with FreeD module) <ul style="list-style-type: none"><li>• 247 cm (97.2 in) without extension</li><li>• 254 cm (100 in) with extension</li></ul>
<b>Space requirements:</b>	Without FreeD module: <ul style="list-style-type: none"><li>• 5 m x 4 m x 2.40 m (196.9 in x 157.5 in x 94.5 in) (L x W x H) without extension</li><li>• 5 m x 4 m x 2.47 m (196.9 in x 157.5 in x 97.3 in) (L x W x H) with extension</li></ul> With FreeD module: <ul style="list-style-type: none"><li>• 5 m x 4 m x 2.48 m (196.9 in x 157.5 in x 97.7 in) (L x W x H) without extension</li><li>• 5 m x 4 m x 2.55 m (196.9 in x 157.5 in x 100.4 in) (L x W x H) with extension</li></ul>
<b>Operating conditions:</b>	<ul style="list-style-type: none"><li>• Temperature: 10 °C - 30 °C</li><li>• Humidity: 30 % - 75 % relative air humidity</li><li>• Air pressure: 700 hPa – 1060 hPa</li></ul>
<b>Displays:</b>	<ul style="list-style-type: none"><li>• 15 inch touch screen monitor for setting input and device control by the therapist</li><li>• 32 inch Augmented Performance Feedback flat screen monitor</li></ul>
<b>Patient requirements:</b>	<ul style="list-style-type: none"><li>• Patient weight max. 135 kg (297.6 lbs)</li><li>• Patient height max. 200 cm (78.74 in) (193 cm (75.98 in) without extension)</li></ul>

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**All information is subject to change without notice.**

## **Manufacturer of the Lokomat®Pro**

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