

Technical Data Erigo®

Device description:

The Erigo® is an early rehabilitation robotic device for the safe mobilization of neurological and bed-ridden patients even in acute care. The Erigo combines gradual verticalization with cyclic leg movements and loading for the stabilization of the patient in the upright position. The patient stimulation can be additionally enhanced by synchronized functional electrical stimulation (FES). The purpose of the Erigo is to provide the opportunity of early and safe mobilization in order to counteract the negative effects of immobility and accelerate the recovery process with intensive sensorimotor stimulation. The Erigo is available both in a standard (ErigoBasic) and advanced version (ErigoPro).

Key features:

- Progressive verticalization up to 90°
- Cyclic leg movements 8-80 steps/min
- Mechanical leg loading up to 50 kg
- Erigo FES by Hasomed*

Software features:

- Intuitive graphical user interface for adjusting and saving training parameters via touch screen (15.5-inch / 16:9 ratio)
- Adjustable guidance force for leg drives 0-100 % (symmetric/asymmetric)
- Adjustable range of motion 0-45° (symmetric/asymmetric)
- Adjustable leg loading with integrated real-time feedback of the loading force*
- Adjustable verticalization angle 0°-90°
- Adjustable hip extension angle 0°-10°**
- Different movement patterns (sine wave, gait, alternating leg)*
- FES stimulation synchronized with the leg movement of the Erigo and fully operable via graphic user interface*
- FES stimulation intensity (amplitude) adjustable for each channel separately, other parameters (frequency, pulse width, ramp) adjustable non-channel specific*
- Patient specific history function of performed trainings
- Reporting functionality for documenting therapy progress
- Remote support and service diagnostic tools for error handling

Safety and Comfort:

- Height adjustment for patient transfer (56-84 cm)
- Flexible patient harness and different sizes for leg cuffs for fixation
- Head elevation function for patient setup*
- Continuously adjustable stride width
- Footplates adjustable to different foot positions (plantar/dorsal flexion, pronation/supination), mechanism to block/allow additional ankle joint movement
- Demountable back cushion (70 mm thick), fluid-proof and biostatic cover, biocompatible according to ISO 10993
- Demountable foot padding allowing to train barefoot, fluid-proof and biostatic cover, biocompatible according to ISO 10993
- Integrated standard rail (25 x 10 mm) for attaching additional hospital equipment such as monitoring systems
- Arm- and headrest set*

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- Adjustment in height, verticalization, hip extension*, head elevation* and leg length by means of remote control
 - Four casters with integrated central blocking and direction control function for the front casters
 - Mechanical emergency release in case of power breakdown
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Mains connections: • 220 - 240 V~ / 50 - 60 Hz
• 110 - 120 V~ / 50 - 60 Hz

Weight: • Approx. 300 kg (661 lb)

Dimensions: • L x W x H: 227 x 86 x 242 cm (89 x 34 x 95 in)

Space requirements: • L x W x H: 400 x 240 x 245 cm (157 x 157 x 96 in)

Operating conditions: • Temperature: 10 - 30 °C
• Humidity: 30 - 75 % relative air humidity
• Air pressure: 700 – 1060 hPa

Patient requirements: • Patient weight capacity: max. 135 kg (297 lb)
• Continuous adaptation to patient's leg length: 72-102 cm (28-40 in)

* Applies only for Erigo®Pro (not yet available in the USA)

All information is subject to change without notice.

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