



ERGOMETRY

Technical data - ergometry

Technical data ERG 910 S Plus:

Almost noiseless and maintenance-free drive mechanism with V-belt (no chain)

Base dimensions: 83 cm x 40 cm (33 x 16 in) (L x W)

Weight: 43 kg (125 lbs)

Braking principle: computer-controlled brakes with permanent measurement of torque. Braking performance is independent of revolutions per minute.

Load range: 20 to 400 watts (independent of revolutions per minute); 5 to 20 watts dependent of revolutions per minute

Range of revolutions: 30 to 130 rpm for pedals

Load precision: 3%, not less than 3 watts

Load parameters:

1. According to the selected internal load program
2. Parameters from external master unit via interface, smallest resolution 1 watt
3. Manually in steps of 5 watts

Load software: 5 freely programmable ergometry programs. 1 automatically controlled pulse-steady-state program

Time intervals: 1 min. to 99 min.

Display: graphic LCD display with 320 x 240 pixels, CCFT back light.

Pulse measurement: via blood pressure measurement unit, or optionally via Polar pulse monitoring system.

Seat adjustment: infinitely variable for heights between 120 and 210 cm.

Max. patient weight: 160 kg (352 lb)

Long-term accuracy: continuous torque control according to weight

Power supply: 230 VAC 50-60 Hz, 115 VAC 50-60 Hz

Electrical inputs/outputs: RS-232 (galvanically isolated).

Technical data ERG 911 S / ERG 911 BP Plus:

Almost noiseless and maintenance-free drive mechanism with V-belt (no chain)

Base dimensions: 83 cm x 40 cm (33 x 16 in) (L x W)

Weight: 60 kg (132 lbs)

Braking principle: computer-controlled brakes with permanent measurement of torque. Braking performance is independent of revolutions per minute.

Load range: 20 to 800 watts optional 1000 Watt (independent of revolutions per minute); 5 to 20 watts dependent of revolutions per minute

Range of revolutions: 30 to 130 rpm for pedals

Load precision: 3%, not less than 3 watts

Load parameters:

1. According to the selected internal load program
2. Parameters from external master unit via interface, smallest resolution 1 watt
3. Manually in steps of 5 watts

Load software: 5 freely configurable ergometry programs. 1 automatically controlled pulse-steady-state program

Time intervals: 1 min. to 99 min.

Display: graphic LCD display with 320 x 240 pixels, CCFT back light.

Blood pressure measurement: indirectly, with a specific, modified measuring system based on R-R, and computer analysis including maximal suppression of artefacts during ergometry. Automatic deflation with 3 mmHg/pulse, measuring range 40 - 300 mmHg. Optional for ERG 911 S.

Pulse measurement: via blood pressure measurement unit, or optionally via Polar pulse monitoring system.

Seat adjustment: infinitely variable for heights between 120 and 210 cm.

Max. patient weight: 160 kg (352 lb)

Long-term accuracy: continuous torque control according to weight

Power supply: 230 VAC 50-60 Hz, 115 VAC 50-60 Hz

Electrical inputs/outputs: RS-232 (galvanically isolated).

Technical data ERG 911 S/L Plus:

Base dimensions: 160 cm x 60 cm (63 x 24 in) (L x W)

Weight: 90 kg (198 lbs)

Braking principle: computer-controlled brakes with permanent measurement of torque, independent of revolutions per minute.

Rotatable couch: 90 x 55 cm (35 x 22 in) for heights between 140 and 205 cm and max. weight of 160 kg (352 lb); infinite remote control from horizontal up to 45°

Load range: 20 - 800 watts

Range of revolutions: 30 - 130 rpm

Load precision: 3%, not less than ± 3 watts

Long-term accuracy: permanent torque balance by use of patient weight

Load steps: 5 W and 25 W manually adjustable, or via program

Time intervals: 1-99 min

Display: graphic LCD with 320 x 240 pixels; CCFT back light; alphanumeric and graphic presentation of ergometry parameters and instructions for the user regarding programming and maintenance

Blood pressure measurement (option): indirect with special, modified measuring system in accordance with R-R and computer evaluation with maximum interference extraction during ergometry; automatic deflation with 3 mmHg/pulse; max. deflation in the middle range for high amplitudes; visual and acoustic alarm if alarm limits are exceeded; different cuff sizes for children and adults

Interface: galvanically isolated digital RS-232 interface

Power supply: 115 V/230 V, 50/60 Hz

Safety standard: IEC 60601-1

Conformity: 0124, 93/42/EEC (II.3)

Technical data ERG 911 BP/LS:

Base dimensions: 160 cm x 60 cm (63 x 24 in) (L x W)

Weight: 96 kg (212 lbs)

European safety standards: DIN 13405 and E DIN VDE 0750-238

Braking principle: computer-controlled brakes with permanent measurement of torque, independent of revolutions per minute.

Load range: 20 - 800 watts

Range of revolutions: 30 - 130 rpm

Load precision: 3%, not less than ± 3 watts

Load parameters:

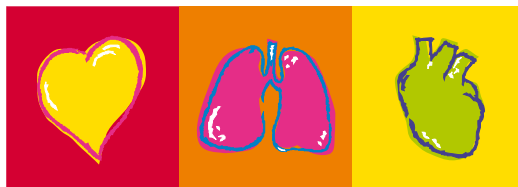
- According to the selected internal load program
- Parameters from external master unit
- Smallest resolution 1 watt
- Manually in steps of 5 or 25 watts

Load software:

- 5 freely configurable ergometry programs
- 1 automatic program for constant pulse

Time intervals: 1-99 min

Display: graphic LCD with 320 x 240 pixels; CCFT back light; alphanumeric and graphic presentation of ergometry parameters and instructions for the user regarding programming and maintenance



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Pulse measurement

- Priorities: 1. ECG, 2. Opto, 3. R-R
- Measuring range: 35 to 240 bpm

Blood pressure measurement (option): indirect with special, modified measuring system in accordance with R-R and computer evaluation with maximum interference extraction during ergometry; automatic deflation with 3 mmHg/pulse; max. deflation in the middle range for high amplitudes

Rotatable couch: dimensions 90 cm x 55 cm (35 x 22 in) for heights between 140–205 cm and max. weight of 160 kg. Seat and head rest for correct positioning of patient, adjustable via remote control. Paper roll located underneath the head rest (50 cm wide). The couch is infinitely variable from a horizontal position to 45°, even via remote control. In addition, the couch can be rotated to the left by up to 45° with a waist strap and shoulder support for a safe positioning of the patient. An arm rest for the blood pressure measurement as well as a handle bar can be mounted on the couch's guiding rails.

Handle bar as mounting aid: an adjustable handle bar is located next to the measuring head to facilitate mounting

Long-term accuracy: permanent torque balance via weight

Power supply: 230–249 V, 50 Hz and 115 V, 60 Hz

Interfaces: RS-232, USB (galvanically isolated)

Technical data MTM-1500/1500 med:

Dimensions: belt: 150 cm x 50 cm x 16 cm, shock reduction, non-slip belt surface

Frame dimensions: 210 cm x 120 cm x 82 cm

Weight: approx. 200 kg (440 lbs)

Speed range: 0 to 20 km/h (higher speed available on request)

Acceleration: 7 steps, in 3 - 131 s from 0 to max. speed and back to 0, manually or program-controlled

Slope: 0–24 %, electronically adjustable, resolution 0.1 %. An electronic motor braking system prevents acceleration when set to max. slope

Motor system: maintenance-free three-phase motor, 2.2 kW (3.0 HP)

Power transmission: very quiet Poly-V belt

Safety standards: -0123, IEC EN 60335-1 (VDE 0700); IEC EN 60601-1-2 (EMC registration); IEC EN 60601-1-4 (VDE 0701); EN 957-1, EN 957-2, EN 957-6; emergency stop

Additionally for MTM-1500 med: MDD, directive 93/42 EEC for medical devices, IEC EN 60601-1 (VDE 0750 and VDE 0751); isolating transformer for potential isolation from mains; emergency stop button for isolation from mains

Digital interface: 1 x RS-232 COM1 for PC, CosCom, blood pressure unit, ECG, ergospirometry and printer protocol

Free PC software: h/p cosmos for display and remote control via PC. Various acoustic error codes area available that can be transmitted via telephone for remote diagnosis.

Frame colour: aluminium grey, other colours on request

Hand rails: steel tube hand rails that can be mounted on the right or left hand side; a second hand rail is optionally available; handle bar at the front is a standard feature

Power supply: 220/240 V, 50/60 Hz, single-phase, 16 A; special power supply is available on request. Additionally for MTM-1500 med: 110/120 V (limited performance)

Technical data ERG 911 BP/HK:

Base dimensions: 40 cm x 108 cm (16 x 43 in) (L x W)

Weight: 57 kg (126 lbs)

Braking principle: computer-controlled brakes with permanent measurement of torque, independent of revolutions per minute.

Load range: 20–800 watts

Range of revolutions: 30–130 rpm via computer-controlled hand crank

Load precision: 3%, not less than ± 3 watts

Load parameters: according to selected internal load program or via external master unit (remote control) via interface with minimal resolution of 1 W or manually in steps of 5 W or 25 W

Load software:

- 5 freely configurable ergometry programs

- 1 automatically regulated pulse-steady-state programme

Time intervals: 1–99 min

Adjustable seat: infinitely variable for heights between 120–210 cm

Display: graphic LCD with 320 x 240 pixels; CCFT back light; alphanumeric and graphic presentation of ergometry parameters and instructions for the user regarding programming and maintenance

Blood pressure measurement (option): indirect with special, modified measuring system in accordance with R-R and computer evaluation with maximum interference extraction during ergometry; automatic deflation with 3 mmHg/pulse; measurement site for special cuff right above the ankle. The height difference between the heart and the measurement site must be considered.

Pulse measurement: with a blood pressure unit or an optional Polar pulse monitoring system; pulse rate 35–240 bpm

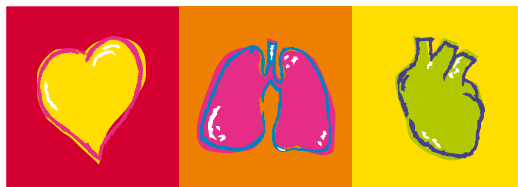
Wheelchair docking: the seat can be moved to the side to allow access to the wheelchair brackets.

Long-term accuracy: continuous torque control according to weight

Interface: galvanically isolated digital RS-232 interface
Power supply: 230 V, 50/60 Hz, 115 V, 50/60 Hz

European safety standard: DIN13405, E DIN VDE 0750-238

Technical specifications are subject to change without notice.
No liability is assumed for pictures.



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