The worlds highest load accurate arm ergometer











Highlights

Extreme workload range of 8 - 2500 watt

The extraordinary workload range of 8-2500 watt is unique in the world! It makes this ergometer extremely suitable for sports medicine and testing the strongest athletes in the world on their anaerobic power or isokinetic capacity.

Heavy Duty Design Arm Ergometer

The Brachumera Sport is designed for heavy duty sports medicine ergometry, without doing any concession on the esthetic, modern and robust design.

Easy to operate

For Lode products this means:

- easy to connect
- easy to move around
- easy user interface

Reliable and reproducible stress tests

The experience of professionals who calibrate many ergometers shows that the Lode ergometers are the most reliable across the complete workload and rpm range and still within specifications even after many years of intensive use.

High standards

Lode is a socially and environmentally responsible company. All Lode products are RoHS/WEE compliant and Lode is ISO 9001:2015, and ISO 13485:2016 certified. All medical products comply to MDD 93/42/EEC, incl. IEC 60601-1.





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The Brachumera sport is a modern and reliable arm ergometer that can be controlled both manually and by external equipment. Brachumera Sport is currently used in Olympic and professional sports where the muscles in the arms and shoulders play a mayor role, e.g. kayaking and swimming. The arm ergometer for sports can deliver a load up till 2500 Watt. The function of this product can be enhanced by using it in combination with our Lode Ergometry Manager software.

Features



Extreme low start-up load

The extreme low start-up load of 7 watts and the adjustability in small steps of 1 watt make this ergometer perfectly suitable for many different applications. The standard control unit shows multiple ergometry parameters and you can determine your specific default setting and start-up menu.



Small adjustment steps

The workload of the Lode ergometers is adjustable in steps of only 1 watt. Depending on your wishes, the test operator or the test subject can adjust the workload. The steps of 1 watt are possible in the manual mode as well as within protocols.



Designed to be sweat-proof

The housing of the ergometer is designed in such way that sweat does not have the chance to drip into the mechanical parts. This ensures a long lifetime and makes the ergometer insensitive for malfunction.



Customer specific display setting

Display settings are adjustable according to your specific requirements: each individual has its specific wishes about the parameters to be displayed. This can easily be adjusted with the Lode ergometers.



LEM compatible

This product can be used with Lode Ergometry Manager (LEM) software to manage data and to apply specific protocols when a Communication card or Network card is present



Accurate over a long period of time

The Lode ergometers are supplied with an electro-magnetic braking mechanism of Lanooy (eddy current). The biggest advantage of this braking system compared to a friction braking system is the absolute accuracy and the accuracy over time. Moreover, friction braking systems have more wearing parts.



RS232 connectivity

RS232 ports enable connectivity to most ECG and ergospirometry devices as well as PC's.



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Brachumera sport can a.o be extended with the following options:

USB to Serial converter

Easy connection



Partnumber: 226012

Electric adjustable chair for arm ergometer

Comfortable seating position in front of the



Partnumber: 917813

Programmable Control Unit with SpO2 & Heart rate

Measurement of oxygen saturation



Partnumber: 928841

Heart rate

Heart rate controlled cycling



Partnumber: 928826

0-Watt start-up system

Lowest possible startup power



Partnumber: 925805

Adjustable sports cranks incl. pediatric range

Optimal force application



Partnumber: 925808

Programmable Control

Programming protocols in advance



Partnumber: 928811

Adjustable wall fixation for Brachumera sport

Versatile application of Brachumera Sport



Partnumber: 925830

Stand for adjustable wall fixation Brachumera sport

Versatile application of Brachumera sport



Partnumber: 925840

RS232 cable

Easy connection



Partnumber: 930911

Bluetooth Smart heart

Available in Q2 2019



Partnumber: 945833



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Specifications

Workload	
Minimum load	7 W
Maximum peak load	2500 W
Isokinetic workload control	~
Minimum load increments	1 W
Maximum continuous load	1500 W
Hyperbolic workload control	~
Linear workload control	~
Fixed torque workload control	~
Maximum rpm independent constant load	150 rpm
Minimum rpm independent constant load	30 rpm
Optional heart rate controlled workload	~
Electromagnetic "eddy current" braking system	~
Dynamic calibration	~
Accuracy	
Workload accuracy below 100 W	3 W
Workload accuracy from 100 to 1500 W	3 %
Workload accuracy over 1500 W	5 %
User Interface	
Readout Distance	~
Readout RPM	~
Readout Heartrate	~
Readout target HR	~
Readout Energy	~
Readout Torque	~
Readout Time	~
Readout Power	~
Set Display	~
Set Resistance	~
Set P-Slope	~
Set Mode	~
Manual operation mode	~
Preset protocol operation mode	~
Analog operation mode	~
Terminal operation mode	~
Selfdesigned protocol operation mode	~
Connectivity	
Analog connector	~
RS232 in connector	~

Dimensions

CB according to IECEE CB

Product length (cm)	114 cm	44.9 inch
Product width (cm)	59 cm	23.2 inch
Product height	51 cm	20.1 inch
Product weight	65 kg	143.3 lbs
Power requirements		
Power cord length	250 cm	98.4 inch
Power cord IEC 60320 C13 with CEE 7/7 plug	~	
Power cord NEMA	×	
115 V AC 50/60 Hz (130 VA)	~	
230 V AC 50/60 Hz (130 VA)	~	
Standards & Safety		
IEC 60601-1:2005	~	
ISO 13485:2016 compliant	~	
ISO 9001:2015 compliant	~	
Certification		
CE class Im according to MDD93/42/EEC	~	
CE class of product with optional SpO2	lla	
CE class of product with optional BPM	lla	

Order info

Partnumber:	925901	

^{*}Specifications are subject to change without notice.



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