Smarter, Better, Stronger!











Highlights

Extreme workload range of 10 - 3000 watt

This extraordinary peak workload is extremely suitable for sports medicine and testing the strongest athletes on their anaerobic power or isokinetic capacity. Combined with the low start workload of 10 Watt this Excalibur will fit everybody.

Suitable for all types of athletes

The ergometer can be used for various tests, like e.g. Wingate, Isokinetic, HIT and timetrials. Moreover CPET testing and bike fitting is possible, allowing all types of athletes to be tested.

Extreme adjustability

Both the saddle and the handlebar can be adjusted horizontally and vertically using the control unit.

Exchangeable accessories

The pedals, handlebar and saddle can easily be exchanged for the Test Subjects own accessories to test the Test Subject as realistic as possible, to optimize the circumstances or exchange to test a better bike fitting.

Heavy Duty Design

The Excalibur Sport is designed for heavy duty sports medicine ergometry, without doing any concession on the esthetic, modern and robust design. In other words: Excalibur Sport: the gold standard in Ergometry!





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With its unbeatable accuracy and reliability, the Excalibur Sport has proven itself as The Gold Standard in Ergometry ever since 1985. However, the world keeps spinning and developments never stop. That is why we now proudly present the **new Lode Excalibur Sport**: Smarter, Better and Stronger! Still true to its heritage but combined with innovative new features to meet the latest and future requirements of modern sports medicine and research to allow athletes to become stronger and better with smarter use of human performance technology.

Versatile ergometer

The new Lode Excalibur Sport ergometer is an essential part of a sports medicine or research lab, since it can be used to test all types of athletes. The ergometer allows for various tests, like a Wingate sprint test, Isokinetic tests, High Intensity Tests (HIT) and time trials. Moreover, it can also be used for CPET testing and bike fitting.





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Features



Electric adjustable saddle Excalibur Sport

The position of the saddle of the excalibur sport can be adjusted in height, length and angle to suit all users.

The saddle of the ergometer can be adjusted horizontally in a range of 252 mm and the saddle height in a range of 388 mm using the Control Unit or LFM.

The Test Subject can be seated on the saddle while adjusting.



Electric adjustable handlebar Excalibur **Sport**

The position of the handlebar of Excalibur Sport is completely adjustable in height and

The handlebar of the ergometer can be adjusted horizontally in a range of 169mm and vertically in a range of 390mm using the Control Unit or LEM software. The Test Subject can use the handlebar while adjusting.



Extreme low start up load 10W

The extreme low start-up load of 10 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.



Low noise

Due to accurate manufacturing and the careful choice of materials the product has an extremely low noise level.



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.



Compatible with ECG and pulmonary devices

The Lode ergometers have digital interfaces and can be controlled easily by all known stress ECG and pulmonary devices available in the world. This is one of the reasons why the Lode ergometers are very popular worldwide.



Exchangeable pedals

The cranks of the ergometer are suitable for almost all available clip systems so cyclists can perform a test with their own favorite pedals.



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 and cables are protected. This ensures a long lifetime and makes the ergometer insensitive for malfunction.



RS232 connectivity

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



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



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The new Excalibur Sport can a.o be extended with the following options:

USB to Serial converter

Easy connection



Partnumber: 226012

Adjustable sports cranks incl. pediatric range Optimal force application



Partnumber: 925808

Easy saddle exchange option

Fast change of saddle to suit all users



Partnumber: 925807

SpO2 for control unit with touch panel (extra long cable)

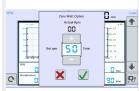
Oxygen saturation



Partnumber: 945822

0-Watt start-up system

Lowest possible startup power



Partnumber: 960805

Add program function to 7" touch screen for ergometer

Easily programmable



Partnumber: U945835

Ambient sensor pack

Check environmental conditions during test



Partnumber: 945827

Blood Pressure with ECG trigger for bicycle ergometer

with ECG trigger



Partnumber: 945828

Saddle for children

Versatile ergometry



Partnumber: 401066

Saddle for children - ordered additionally

Versatile ergometry



Partnumber: P401066

Bluetooth Smart heart

Heartrate available within an extreme wide



Partnumber: 945833





50/60 Hz

160 W

250 cm

98.4 inch

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Specifications

Workload			User Interface		
Minimum load	10 W		English user interface	~	
Maximum peak load	3000 W		Norwegian user interface	~	
Isokinetic workload control	~		Czech user interface	~	
Minimum load increments	1 W		Danish user interface	~	
Hyperbolic workload control	~		Dutch user interface	~	
Linear workload control	~		French user interface	~	
Fixed torque workload control	~		German user interface	~	
Maximum rpm independent constant load	180 rpm		Italian user interface	~	
Minimum rpm independent constant load	30 rpm		Japanese user interface	~	
Electromagnetic "eddy current" braking system	~		Korean user interface	~	
Accuracy			Polish user interface	~	
Workload accuracy below 100 W	2 W		Portugese user interface	~	
Workload accuracy from 100 to 1500 W	2 %		Russian user interface	~	
Workload accuracy over 1500 W	5 %		Spanish user interface	~	
Comfort			Turkish user interface	~	
Toeclips on pedals	~		Ukrainian user interface	~	
Q-factor	147 mm		Terminal operation mode	~	
Vertical seat adjustment maximum	938 mm	36.9 inch	Screen size (diagonal)	17.8 cm	7 inch
Vertical seat adjustment minimum	550 mm	21.7 inch	Touchscreen	~	
Horizontal seat adjustment minimum	72 mm	2.8 inch	Connectivity		
Horizontal seat adjustment maximum	324 mm	12.8 inch	Lode interface protocol	~	
Allowed user weight	225 kg	496 lbs	Ergoline P10 interface protocol	~	
Horizontal handlebar adjustment minimum	229 mm	9 inch	Ergoline P4 interface protocol	~	
Horizontal handlebar adjustment maximum	60 mm	2.4 inch	Schiller interface protocol	~	
Vertical handlebar adjustment minimum	465 mm	18.3 inch	Bosch EKG 506 DS interface protocol	~	
Vertical handlebar adjustment maximum	855 mm	33.7 inch	USB connector	~	
			RS232 out connector	~	
			Dimensions		
			Product length (cm)	200 cm	78.7 inch
			Product width (cm)	100 cm	39.4 inch
			Product height	70 cm	27.6 inch
			Product weight	145 kg	319.7 lbs
			Power requirements		
			V AC	100 - 240 V	

Phases

Frequency
Power consumption

Power cord length

Power cord IEC 60320 C13 with CEE 7/7 plug

Standards & Safety

IEC 60601-1:2012 - pending	4
ISO 13485:2016 compliant	4
ISO 9001:2015 compliant	4

Order info



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Partnumber:	965910

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