Phased out - support up till 2029











### **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.

### Read out of seating position

The Excalibur Sport has a unique read-out of the seating position on the display of the Control Unit. The display shows saddle height & angle, handlebar position vertical & height.

### Various test modes

Besides the hyperbolic (rpm-independent) mode that is used most of the time, the standard control unit offers several other test modes, like the fixed torque mode and the linear mode. These modes can be used in both manual and terminal mode.

### 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!

### Easy to clean

The design of the ergometer and the housing material make it very easy to clean.





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The Gold Standard in Ergometry: with proven accuracy and reliability, the Excalibur sport is renowned worldwide as "the gold standard in ergometry". The newly designed and improved Excalibur sport ergometer meets the latest requirements of modern sports medicine and research. Since athletes are becoming more and more powerful and testing more advanced than ever, this ergometer has been developed for extreme workloads up to 2500 watt! The new design ensures maximum stability at these high workloads. Thanks to the increased adjustability, versatile positioning of the test subject has never been better! 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 **Natt** 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.



### 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.



### 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.



## Compatible with ECG and pulmonary

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.



### 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.



### 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 is present



### Adjustable handlebar Excalibur Sport

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



### 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



### Compatible with click pedals

The bicycle ergometer is compatible with most available clickpedals to allow for maximum user flexibility



### Instant maximum load

By selecting P-slope max the ergometer immediately reaches maximum power



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### Changing pedals on a regular base

The standard crank is not intended for regular pedal exchange. If you intend to change pedals regularly, we advise to order the adjustable sports cranks with hardened steel pedal mounting block (part number 925808).



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

#### USB to Serial converter

Easy connection



Partnumber: 226012

## 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

## Easy saddle exchange option

Fast change of saddle to suit all users



Partnumber: 925807

#### Mounting Bracket Control Unit & RPM meter

All controls at hand



Partnumber: 928848

## Excalibur sport rebuilt to Excalibur sport PFM

Upgrade your Excalibur Sport to the max



Partnumber: 925880

### Mounting Bracket Control Unit

More controls at hand



Partnumber: 928849

### Programmable Control

Programming protocols in advance



Partnumber: 928811

#### RS232 cable

Easy connection



Partnumber: 930911

### Saddle for children

Versatile ergometry



Partnumber: 401066

## Saddle for children - ordered additionally

Versatile ergometry



Partnumber: P401066

### Bluetooth Smart heart rate

Heartrate available within an extreme wide



Partnumber: 945833



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### **Specifications**

Workload			User Interface		
Minimum load	8 W		Readout Distance	~	
Maximum peak load	2500 W		Readout RPM	~	
Isokinetic workload control	~		Readout Heartrate	~	
Minimum load increments	1 W		Readout target HR	<b>~</b>	
Maximum continuous load	1500 W		Readout Energy	~	
Hyperbolic workload control	~		Readout Torque	~	
Linear workload control	~		Readout Time	~	
Fixed torque workload control	~		Readout Power	~	
Maximum rpm independent constant load	180 rpm		Set Display	<b>~</b>	
Minimum rpm independent constant load	25 rpm		Set Resistance	~	
Optional heart rate controlled workload	<b>~</b>		Set P-Slope	<b>~</b>	
Electromagnetic "eddy current" braking system	~		Set Mode	~	
Dynamic calibration	~		Manual operation mode	~	
Accuracy			Preset protocol operation mode	~	
Workload accuracy below 100 W	2 W		Analog operation mode	<b>~</b>	
Workload accuracy over 1500 W	5 %		Terminal operation mode	<b>~</b>	
Workload accuracy from 100 to 1500 W	2 %		External control unit	~	
Comfort			Selfdesigned protocol operation mode	~	
Toeclips on pedals	~		Connectivity		
Q-factor	147 mm		Analog connector	~	
Minimum leg length user	725 mm	28.5 inch	RS232 in connector	<b>~</b>	
Minimum leg length user (incl. adjustable pedals)	650 mm	25.6 inch	RS232 out connector	<b>~</b>	
Vertical seat adjustment maximum	938 mm	36.9 inch	Dimensions		
Vertical seat adjustment minimum	550 mm	21.7 inch	Product length (cm)	130 cm	51.2 inch
Horizontal seat adjustment minimum	72 mm	2.8 inch	Product width (cm)	70 cm	27.6 inch
Horizontal seat adjustment maximum	324 mm	12.8 inch	Product height	89 cm	35 inch
Seat angle adjustment maximum	10 °		Product weight	100 kg	220.5 lbs
Allowed user weight	180 kg	396.8 lbs	Power requirements		
Horizontal handlebar adjustment minimum	229 mm	9 inch	Power cord length	250 cm	98.4 inch
Horizontal handlebar adjustment maximum	600 mm	23.6 inch	Power cord IEC 60320 C13 with CEE 7/7 plug	<b>~</b>	
Vertical handlebar adjustment minimum	465 mm	18.3 inch	Power cord NEMA	×	
Vertical handlebar adjustment maximum	855 mm	33.7 inch	115 V AC 50/60 Hz (130 VA)	<b>~</b>	
Handlebar adjustment angle	360 °		230 V AC 50/60 Hz (130 VA)	<b>~</b>	
			Standards & Safety		
			IEC 60601-1:2005	<b>~</b>	
			ISO 13485:2016 compliant	<b>~</b>	
			ISO 9001:2015 compliant	<b>~</b>	

### Certification

CE class Im according to MDD93/42/EEC	•
CE class of product with optional SpO2	I
CE class of product with optional BPM	I
CB according to IECEE CB	•

Order info



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Partnumber:	925900	



<sup>\*</sup>Specifications are subject to change without notice.