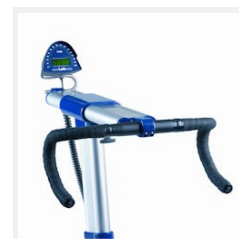
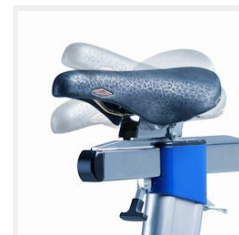
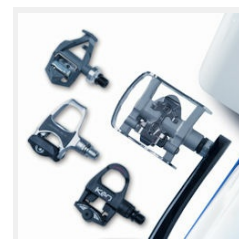


# Excalibur sport

The standard in Sports Medical diagnostic and performance testing.



## Highlights

### Reliable and reproducible stress tests

The experience of professionals who calibrate many ergometers showed 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.

### Comfortable bed for the Patient

- soft bed
- easy step up
- bedcover roll included
- headrests
- handgrips

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.



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## Features

**7  
watt**

### 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.



### Low noise

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



### Standard Control Unit

The standard control unit shows multiple ergometry parameters and you can determine your specific default setting and start-up menu.



## Changing pedals on a regular base




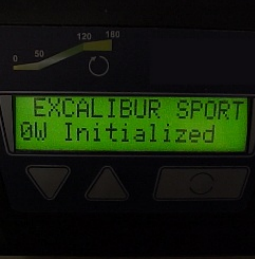





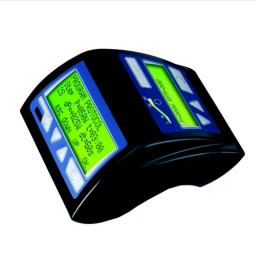



The standard crank is not intended for regular pedal exchange. If you intend to change pedals regularly, we advise to order the adjustable sports cranks with hardened steel pedal mounting block (part number 925808).

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

<p><b>USB to Serial converter</b></p> <p>Easy connection</p>  <p>Partnumber: 226012</p>	<p><b>Programmable Control Unit with SpO2 &amp; Heart rate</b></p> <p>Measurement of oxygen saturation</p>  <p>Partnumber: 928841</p>	<p><b>Heart rate</b></p> <p>Heart rate controlled cycling</p>  <p>Partnumber: 928826</p>	<p><b>0-Watt start-up system</b></p> <p>Lowest possible startup power</p>  <p>Partnumber: 925805</p>	<p><b>Adjustable sports cranks incl. pediatric range</b></p> <p>Optimal force application</p>  <p>Partnumber: 925808</p>
<p><b>Easy saddle exchange option</b></p> <p>Fast change of saddle to suit all users</p>  <p>Partnumber: 925807</p>	<p><b>Mounting Bracket Control Unit &amp; RPM meter</b></p> <p>All controls at hand</p>  <p>Partnumber: 928848</p>	<p><b>Excalibur sport rebuilt to Excalibur sport PFM</b></p> <p>Upgrade your Excalibur Sport to the max</p>  <p>Partnumber: 925880</p>	<p><b>Mounting Bracket Control Unit</b></p> <p>More controls at hand</p>  <p>Partnumber: 928849</p>	<p><b>Programmable Control Unit</b></p> <p>Programming protocols in advance</p>  <p>Partnumber: 928811</p>
<p><b>RS232 cable</b></p> <p>Easy connection</p>  <p>Partnumber: 930911</p>	<p><b>Saddle for children</b></p> <p>Versatile ergometry</p>  <p>Partnumber: 401066</p>	<p><b>Saddle for children - ordered additionally</b></p> <p>Versatile ergometry</p>  <p>Partnumber: P401066</p>		

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## Specifications

### Workload

Minimum load	8 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	180 rpm	
Minimum rpm independent constant load	25 rpm	
Optional heart rate controlled workload	✓	
Electromagnetic "eddy current" braking system	✓	
Dynamic calibration	✓	

### Accuracy

Workload accuracy below 100 W	2 W	
Workload accuracy from 100 to 1500 W	2 %	
Workload accuracy over 1500 W	5 %	

### Comfort

Toeclips on pedals	✓	
Q-factor	147 mm	
Minimum leg length user	725 mm	28.5 inch
Minimum leg length user (incl. adjustable pedals)	650 mm	25.6 inch
Vertical seat adjustment maximum	938 mm	36.9 inch
Vertical seat adjustment minimum	550 mm	21.7 inch
Horizontal seat adjustment minimum	72 mm	2.8 inch
Horizontal seat adjustment maximum	324 mm	12.8 inch
Seat angle adjustment maximum	10 °	
Allowed user weight	180 kg	396.8 lbs
Horizontal handlebar adjustment minimum	229 mm	9 inch
Horizontal handlebar adjustment maximum	600 mm	23.6 inch
Vertical handlebar adjustment minimum	465 mm	18.3 inch
Vertical handlebar adjustment maximum	855 mm	33.7 inch
Handlebar adjustment angle	360 °	

### Certification

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

### Order info

### 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	✓
External control unit	✓
Selfdesigned protocol operation mode	✓

### Connectivity

Analog connector	✓
RS232 in connector	✓
RS232 out connector	✓

### Dimensions

Product length (cm)	130 cm	51.2 inch
Product width (cm)	70 cm	27.6 inch
Product height	89 cm	35 inch
Product weight	100 kg	220.5 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	✓

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Partnumber: 925900

*\*Specifications are subject to change without notice.*