

# Corival

Can be controlled by all known Cardio Pulmonary Exercise devices



## Highlights

### Reliable and reproducible stress tests

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

### High standards

Lode is a social and environmental responsible company. All Lode products are RoHS/WEE compliant. Furthermore, Lode is ISO 9001:2003, ISO 13485:2008 and FDA 510K certified. All products comply the MDD 93/42/EEC standard, including IEC 60601-1.

### Rotatable handlebar

The handlebar can be rotated 360 degrees and is constructed in such way that the test subject can be installed comfortably at every seating height. This design makes a height adjustable handlebar redundant.

### Various test modes

Besides the mostly used hyperbolic (rpm independent) mode, the standard control unit gives the possibility to test in various other modes like fixed torque and linear. These modes can be used in both manual and terminal mode.

### Q-factor equal to roadbike

The Q-factor of the ergometer is equal to the Q-factor of road bikes, enabling perfect training circumstances.



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The Corival is one of the most popular ergometers worldwide. The low start-up load of 7 Watt is unique. The Corival can be controlled easily by all known stress ECG and pulmonary devices in the world. The Corival has an eddy current electro-magnetic braking mechanism. The biggest advantage of this system is the accuracy which is one of the most important Lode principles. With this ergometer, the stress tests performed are reliable and reproducible. The workload is adjustable in a range of 7 to 1000 watt. Moreover, the noise level is reduced to a minimum. Easy transportation of the device is possible by a simple retractable wheel.

*Available as long as stock lasts*

## Features



### Compatible with ECG and pulmonary devices

The Lode ergometers have both analog and 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.

**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



### 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.

**1  
watt**

### 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.



### Easy step-through

The ergometer has a comfortable step-through: a must for people who are not so mobile!



### RS232 connectivity

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

**Service  
friendly**

### Service friendly ergometer

Lode ergometers are very service friendly. In general, total costs for spare parts are so low that they are negligible. Furthermore, most options are so easy to install and firmware is so easy to update that labor costs are minimal. Moreover, the ergometer can be cleaned easily.



### 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



### LCRM compatible

This product can be used with Lode Cardiac Rehabilitation Manager software (LCRM)



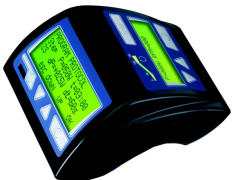



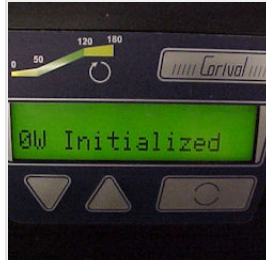





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The Corival can also be extended with the following options:

<p><b>Programmable Control Unit</b></p> <p>Easier and faster exercise testing by</p>  <p>Partnumber: 928810</p>	<p><b>Programmable Control Unit with SpO2 &amp; Heart rate</b></p> <p>Measurement of oxygen saturation during stress</p>  <p>Partnumber: 928840</p>	<p><b>Blood Pressure Module</b></p> <p>No trigger needed for accurate blood pressure</p>  <p>Partnumber: 928817</p>	<p><b>Blood Pressure headphones set</b></p> <p>Listen to Korotkoff tones during blood</p>  <p>Partnumber: 928819</p>	<p><b>0-Watt start-up system</b></p> <p>Lowest possible startup power</p>  <p>Partnumber: 906805</p>
<p><b>Heart rate</b></p> <p>Heart rate controlled cycling</p>  <p>Partnumber: 928824</p>	<p><b>Eccentric option Corival</b></p> <p>Possibility of performing a stress test</p>  <p>Partnumber: 906820</p>	<p><b>Adjustable cranks</b></p> <p>Optimal force application of all</p>  <p>Partnumber: 928804</p>	<p><b>Versatile Horizontal Saddle Adjustment</b></p> <p>Fit to most users</p>  <p>Partnumber: 928805</p>	<p><b>Saddle with back support</b></p> <p>Comfortable seating</p>  <p>Partnumber: 906807</p>

## Related products

<p><b>Lode Cardiac Rehab Manager 08</b></p> <p>Turn key Cardiac Rehabilitation</p>  <p>Partnumber: 950900</p>	<p><b>Lode Cardiac Rehab Manager 16</b></p> <p>Turn key Cardiac Rehabilitation</p>  <p>Partnumber: 950901</p>
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## Specifications

### Workload

Minimum load	7 W
Maximum peak load	1000 W
Minimum load increments	1 W
Maximum continuous load	750 W
Hyperbolic workload control	yes
Linear workload control	yes
Fixed torque workload control	yes
Maximum rpm independent constant load	150 rpm
Minimum rpm independent constant load	30 rpm
Optional heart rate controlled workload	yes
Electromagnetic "eddy current" braking system	yes
Dynamic calibration	yes
Power range at maximum rpm (maximum)	1000 W

### Accuracy

Workload accuracy below 100 W	3 W
Workload accuracy from 100 to 500 W	3 %
Workload accuracy from 500 to 1000 W	5 %

### Comfort

Handlebar adjustment angle	360 °
Q-factor	180 mm
Adjustability range seat	300 mm    11.8 inch
Minimum leg length user	645 mm    25.4 inch

### User Interface

Readout Distance	yes
Readout RPM	yes
Readout Heartrate	yes
Readout target HR	yes
Readout Energy	yes
Readout Torque	yes
Readout Time	yes
Readout Power	yes
Set Display	yes
Set Resistance	yes
Set P-Slope	yes
Set Mode	yes
Manual operation mode	yes
Preset protocol operation mode	yes
Analog operation mode	yes
Terminal operation mode	yes
Selfdesigned protocol operation mode	yes

### Connectivity

Analog connector	yes
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### Dimensions

Product length (cm)	115 cm	45.3 inch
Product width (cm)	60 cm	23.6 inch
Product height	114 cm	44.9 inch
Product weight	52 kg	114.6 lbs
Allowed user weight	160 kg	352.7 lbs

### Power requirements

115 V AC 50/60 Hz (138 VA)	yes
230 V AC 50/60 Hz (138 VA)	yes

### Standards & Safety

IEC 60601-1:2005	yes
ISO 13485:2003 compliant	yes
ISO 9001:2008 compliant	yes

### Certification

CE class Im according to MDD93/42/EEC	yes
CTÜVus according to NRTL	yes
CB according to IECCE CB	yes

### Order info

Partnumber	906900
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\*Specifications are subject to change without notice.



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ISO 9001:2008 and ISO 13485:2003 certified

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