

Corival cpet

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.

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.

Rotatable handlebar with new lever

The new designed lever makes it even easier to adjust the 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.



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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 cpet is standard supplied with a communication module and can therefore be easily controlled by all known stress ECG and pulmonary devices in the world. The workload, rpm and time can be readout from the 3,5" colour display. 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. The ultralow step-through enables easy access to the ergometer and the latest design guarantees a perfect ergonomic position. Moreover, the noise level is reduced to a minimum.

A USB A-B cable for service purposes as well as connecting to ECG and pulmonary testing devices will be standard delivered with the product. To connect older ECG and pulmonary testing devices with RS232 or other connectors you need a special interface cable that can be ordered separately.

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.



RS232 connectivity

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



Readout out of saddle height

The height of the saddle is stepless adjustable and can be read-out on the saddle shaft



Perfect ergonomic position

Improved ergonomic position according to the latest requirements



Ultra-low step-through

The lowest possible step-through guarantees easy access to the ergometer for all test subjects: a must for people who are not so mobile!



Hidden connectors

The cables are connected to the ergometer under the ergometer, which means that the test subject or operator cannot bump onto the connector.



USB connectivity

USB to connect to PC or ECG or ergospirometry products facilitates easy connectivity






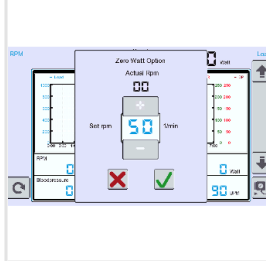





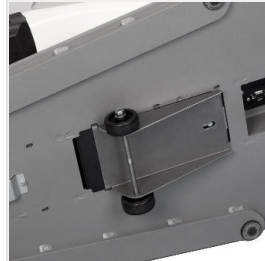
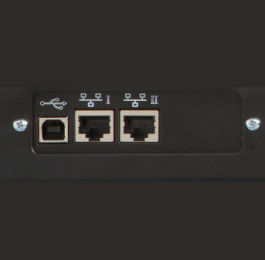




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The Corival cpet can a.o be extended with the following options:

<p>Control Unit with touch screen 7" for ergometer</p> <p>Multifunctionality</p>  <p>Partnumber: 945834</p>	<p>Programmable Control Unit with 7" Touchscreen for programmer</p> <p>Programmable</p>  <p>Partnumber: 945835</p>	<p>Blood Pressure Measurement bicycle ergometers</p> <p>Accurate and reliable</p>  <p>Partnumber: 945825</p>	<p>0-Watt start-up system</p> <p>Lowest possible startup power</p>  <p>Partnumber: 960805</p>	<p>Heart rate for bicycle ergometers</p> <p>Heart rate in beats per minute</p>  <p>Partnumber: 945821</p>
<p>Eccentric option Corival</p> <p>Possibility of performing a stress test</p>  <p>Partnumber: 906820</p>	<p>Adjustable cranks</p> <p>Optimal force application of all</p>  <p>Partnumber: 928804</p>	<p>Saddle for children</p> <p>Versatile ergometry</p>  <p>Partnumber: 401068</p>	<p>Saddle extra large</p> <p>Versatile ergometry</p>  <p>Partnumber: 401080</p>	<p>Transportwheel for Corival</p> <p>Easy transportation</p>  <p>Partnumber: 960801</p>
<p>Network Module</p> <p>Easy networking with LEM and LCRM</p>  <p>Partnumber: 945851</p>	<p>RS232 cable</p> <p>Easy connection</p>  <p>Partnumber: 930911</p>	<p>USB to RS232 cable</p> <p>Easy connection</p>  <p>Partnumber: 930928</p>	<p>Arm support</p> <p>Arm support</p>  <p>Partnumber: 906814</p>	<p>SpO2 for control unit with touch panel - ordered afterwards</p> <p>Ordered afterwards</p>  <p>Partnumber: P945823</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

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

User Interface

English user interface	yes	
Norwegian user interface	yes	
Czech user interface	yes	
Danish user interface	yes	
Dutch user interface	yes	
Finnish user interface	yes	
French user interface	yes	
German user interface	yes	
Italian user interface	yes	
Japanese user interface	yes	
Korean user interface	yes	
Polish user interface	yes	
Portugese user interface	yes	
Russian user interface	yes	
Spanish user interface	yes	
Turkish user interface	yes	
Ukrainian user interface	yes	
Readout RPM	yes	
Readout Time	yes	
Readout Power	yes	
Set Resistance	yes	
Terminal operation mode	yes	
Screen size (diagonal)	8.9 cm	3.5 inch
Touchscreen	yes	

Connectivity

Lode 38K4 interface protocol	yes
Lode interface protocol	yes
Lode WLP interface protocol	yes
Ergoline P10 interface protocol	yes
Ergoline P4 interface protocol	yes
Schiller interface protocol	yes
Bosch EKG 506 DS interface protocol	yes
USB connector	yes
RS232 in connector	yes



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Dimensions

Product length (cm)	105 cm	41.3 inch
Product width (cm)	46 cm	18.1 inch
Product height	114 cm	44.9 inch
Product weight	63 kg	138.9 lbs
Allowed user weight	180 kg	396.8 lbs

Power requirements

100 - 240 V 50/60 Hz (160 Watt)	yes
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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 IECEE CB	yes

Order info

Partnumber

960900

**Specifications are subject to change without notice.*



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ISO 9001:2008 and ISO 13485:2003 certified

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