

Angio rehab - with automatic stand

Modern ergometer with multifunctional applications



Highlights

Easy to operate

For Lode products this means:

- easy to connect
- easy to move around
- easy user interface

Reliable and reproducible stress tests

The experience of professionals who calibrate many ergometers shows 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.

High standards

Lode is a socially and environmentally responsible company. All Lode products are RoHS/WEE compliant and Lode is ISO 9001:2015, and ISO 13485:2016 certified. All medical products comply to MDD 93/42/EEC, incl. IEC 60601-1.

Additional features with PCU

Besides the possibility to program 24 protocols easily, this control unit offers the following features:

- better monitoring because of the additional and larger display
- a perfect combination with BPM
- possibility to measure SpO2

Multifunctional

The ergometer can be used for both arm and leg ergometry.



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With the stand for the Angio, the ergometer can move up and down over a range of 140 cm. With the stand it is easier to move your arm Ergometry setting to another room, because it can stand free. For heavy use during arm-ergometry it is recommended to fixate the stand to the wall with the supplied parts. When is it not secured to the wall, the stand should be installed together with the optional stabilisation leg (#967815).

Together with the automatic stand the Angio becomes an ergometric unit that can be used for both arm and leg Ergometry (this setting is standard supplied with handcurbles). Its compact design makes it universally applicable for ergometric studies in those sectors in which standard ergometry cannot be used. The Angio operates independent of pedaling speed in the range of 7 - 1000 watt.

The Angio rehab is standard supplied with a 7" control unit with touch screen. Thanks to the built-in network module, the ergometer can be connected to the Lode Cardiac Rehab Manager Software, Lode Rehab Manager or the Lode Ergometry Manager.

A USB A-B cable for service purposes only will be standard delivered with the product. To connect LEM or LCRM you need a special interface cable that can be ordered under part number 930930.

Features

**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.

**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.



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.



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



LCRM compatible

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



Customer specific display setting

Display settings are adjustable according to your specific requirements: each individual has its specific wishes about the parameters to be displayed. This can easily be adjusted with the Lode ergometers.



Versatile Interfacing

Various interface protocols guarantee perfect communication with all commonly known stress ECG and spirometry equipment



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Interconnectivity between Lode products

Connecting Lode products has never been easier! Lode rehab and sports products have a standard Network card:

- To be able to connect the first product to the PC with L(C)RM a Lode proprietary network to PC cable is needed (#930930). This cable is standard included with Lode Rehab Software.
- From the second product onward products can be connected to the previous one, creating a bus network configuration;
- The last product always needs a termination plug to avoid interference and loss of data. Therefore all products with such a network card come with a termination plug.

Benefits

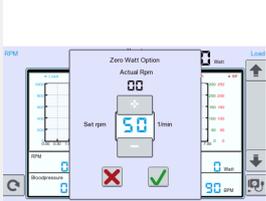
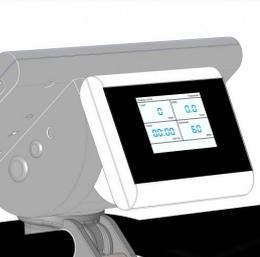
- Lossless data connection
- High bandwidth
- No interference of COM ports
- Daisy chain connection
- Full access of all data in the product to LCRM

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Angio rehab - with automatic stand can a.o be extended with the following options:



<p>Handgrips (pair)</p> <p>Versatile ergometry</p>  <p>Partnumber: 917812</p>	<p>Electric adjustable chair for arm ergometer</p> <p>Comfortable seating position in front of the</p>  <p>Partnumber: 917813</p>	<p>Communication Module</p> <p>Connect to ECG and spirometers</p>  <p>Partnumber: 945850</p>	<p>SpO2 for control unit with touch panel (extra long cable)</p> <p>Oxygen saturation</p>  <p>Partnumber: 945822</p>	<p>0-Watt start-up system</p> <p>Lowest possible startup power</p>  <p>Partnumber: 960805</p>
<p>Colour Display 3.5" - 2nd screen</p> <p>Multifunctionality</p>  <p>Partnumber: 945819</p>	<p>Network module connection cable</p> <p>Easy connection</p>  <p>Partnumber: 930930</p>	<p>SpO2 for control unit with touch panel - ordered afterwards</p> <p>Ordered afterwards</p>  <p>Partnumber: P945822</p>	<p>Add program function to 7" touch screen for ergometer</p> <p>Easily prepare and execute tests and</p>  <p>Partnumber: U945835</p>	<p>Extra wide access for wheelchairs</p> <p>Easy access</p>  <p>Partnumber: 967805</p>
<p>Stabilisation leg for Angio with Automatic Stand</p> <p>Optimal safety and stability</p>  <p>Partnumber: 967815</p>	<p>Bluetooth Smart heart rate</p> <p>Heartrate available within an extreme wide</p>  <p>Partnumber: 945833</p>	<p>Adjustable cranks</p> <p>Optimal force application</p>  <p>Partnumber: 960804</p>	<p>Custom pack Powercable 100 - 127 V for ergometers</p> <p>Easy connection</p>  <p>Partnumber: 945892</p>	<p>Pedal shoes (pair) for Corival (Recumbent)</p> <p>Extra stability during cycling</p>  <p>Partnumber: 967835</p>

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Specifications

Workload

Workload range fixed torque	0,1 - 70 Nm
Minimum load	7 W
Maximum peak load	1000 W
Minimum load increments	1 W
Maximum continuous load	750 W
Hyperbolic workload control	✓
Maximum rpm independent constant load	150 rpm
Minimum rpm independent constant load	30 rpm
Electromagnetic "eddy current" braking system	✓
Dynamic calibration	✓

Accuracy

Workload accuracy from 7 to 100 W	3 W
Workload accuracy from 100 to 500 W	3 %
Workload accuracy from 500 to 1000 W	5 %

Comfort

Adjustability range height	1400 mm
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User Interface

English user interface	✓
Chinese user interface	✓
Croatian user interface	✓
Czech user interface	✓
Danish user interface	✓
Dutch user interface	✓
Finnish user interface	✓
French user interface	✓
German user interface	✓
Greek user interface	✓
Hungarian user interface	✓
Italian user interface	✓
Japanese user interface	✓
Korean user interface	✓
Latvian user interface	✓
Lithuanian user interface	✓
Norwegian user interface	✓
Polish user interface	✓
Portugese user interface	✓
Romanian user interface	✓
Russian user interface	✓
Spanish user interface	✓
Swedish user interface	✓
Turkish user interface	✓
Ukrainian 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	✓



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Dimensions

Product length (cm)	84 cm	33.1 inch
Product width (cm)	82 cm	32.3 inch
Product height	223 cm	87.8 inch
Product weight	95 kg	209.4 lbs
Width between stand	67 cm	

Power requirements

V AC	100 - 240 V
Phases	1
Frequency	50/60 Hz
Power consumption	250 W
Power cord IEC 60320 C13 with CEE 7/7 plug	✓
Power cord NEMA	✗

Standards & Safety

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

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

Partnumber: 967924

**Specifications are subject to change without notice.*