Angio cpet - single set
Modern ergometer with multifunctional applications

**Highlights**

**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.

**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.

**Multifunctional**
The ergometer can be used in various ergometry settings, enabling a multifunctional deployment.

**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
The Angio cpet is an ergometer that can be used for both arm and supine ergometry. 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 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 ergometer is supplied with standard pedals.

Features

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.

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.

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.

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

Versatile controls
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

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

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
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Angio cpet - single set can a.o be extended with the following options:

<table>
<thead>
<tr>
<th>Pedal shoes (pair)</th>
<th>Pedal shoes pediatric (pair)</th>
<th>Adjustable cranks (will be replaced by #960804 in February 2020)</th>
<th>USB to Serial converter</th>
<th>Handgrips (pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra stability during cycling</td>
<td>Pedal shoes for children</td>
<td>Will be replaced by #960804 in February 2020</td>
<td>Easy connection</td>
<td>Versatile ergometry</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SpO2 for control unit with touch panel (extra long cable)</th>
<th>Control Unit with 7” touch screen for ergometer</th>
<th>Programmable Control Unit with 7” Touchscreen for Programmable</th>
<th>Blood Pressure with ECG trigger for bicycle ergometer with ECG trigger</th>
<th>Bluetooth Smart heart rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen saturation</td>
<td>Multifunctionality</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Adjustable cranks - model 2020 (available February 2020)</th>
<th>Custom pack Powercable 100 - 127 V for ergometers</th>
<th>Easy connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optimal force application</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partnumber: 960804</td>
<td>Partnumber: 945892</td>
<td></td>
</tr>
</tbody>
</table>

Vade for Life: Understanding movement and performance
## Specifications

### Workload

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque range</td>
<td>1-70 Nm</td>
</tr>
<tr>
<td>Maximum rotational speed at 110 V</td>
<td>1 rpm</td>
</tr>
<tr>
<td>Minimum load</td>
<td>7 W</td>
</tr>
<tr>
<td>Maximum peak load</td>
<td>1000 W</td>
</tr>
<tr>
<td>Minimum load increments</td>
<td>1 W</td>
</tr>
<tr>
<td>Maximum continuous load</td>
<td>750 W</td>
</tr>
<tr>
<td>Hyperbolic workload control</td>
<td></td>
</tr>
<tr>
<td>Maximum rpm independent constant load</td>
<td>150 rpm</td>
</tr>
<tr>
<td>Minimum rpm independent constant load</td>
<td>30 rpm</td>
</tr>
<tr>
<td>Optional heart rate controlled workload</td>
<td></td>
</tr>
<tr>
<td>Electromagnetic &quot;eddy current&quot; braking system</td>
<td></td>
</tr>
</tbody>
</table>

### Power requirements

- **V AC**: 100-240 V
- **Phases**: 1
- **Frequency**: 50/60 Hz
- **Power consumption**: 160 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 Ia according to MDD93/42/EEC
- CE class of product with optional SpO2: Ila
- CE class of product with optional BPM: Ila
- CB according to IECCE CB - pending

### 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 %

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

### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product height (mm)</td>
<td>580 mm</td>
</tr>
<tr>
<td>Product length (mm)</td>
<td>540 mm</td>
</tr>
<tr>
<td>Product width (mm)</td>
<td>680 mm</td>
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<tr>
<td>Product weight</td>
<td>40 kg</td>
</tr>
</tbody>
</table>

### Order info

- Partnumber: 967900

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*Specifications are subject to change without notice.*