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.

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.

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

Various test modes
Besides the hyperbolic (rpm-independent) mode that is used most of the time, the standard control unit offers several other test modes, like the fixed torque mode and the linear mode. These modes can be used in both manual and terminal mode.

Multifunctional
The ergometer can be used in various ergometry settings, enabling a multifunctional deployment.
The special design of the Corival Pediatric guarantees easy access and ergometry testing of children. The ergometer is standard supplied with a communication module and can therefor be easily controlled by all known stress ECG and pulmonary devices in the world. The workload, rpm and time can be readout from the 7" colour display. The Corival has an eddy current electromagnetic 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.

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**

**Child friendly design**
The special design of this ergometer makes it easy accessible and approachable for children.

**Compatible with ECG and pulmonary devices**
The Lode ergometers have 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.

**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.

**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.

**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.
Corival Pediatric can a.o be extended with the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Partnumber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedal shoes pediatric (pair)</td>
<td>917833</td>
</tr>
<tr>
<td>Pedal shoes for children</td>
<td></td>
</tr>
<tr>
<td>USB to Serial converter</td>
<td>226012</td>
</tr>
<tr>
<td>Arm support</td>
<td>906814</td>
</tr>
<tr>
<td>Network Module</td>
<td>945851</td>
</tr>
<tr>
<td>0-Watt start-up system</td>
<td>960805</td>
</tr>
<tr>
<td>Transportwheel for Corival</td>
<td>960801</td>
</tr>
<tr>
<td>Easy transportation indoors</td>
<td></td>
</tr>
<tr>
<td>RS232 cable</td>
<td>930911</td>
</tr>
<tr>
<td>Add program function to 7” touch screen for ergometer</td>
<td>U945835</td>
</tr>
<tr>
<td>Ambient sensor pack</td>
<td>945827</td>
</tr>
<tr>
<td>Easy saddle exchange option - Corival</td>
<td>960807</td>
</tr>
<tr>
<td>Remote Control for ergometers</td>
<td>945832</td>
</tr>
<tr>
<td>Ease of use</td>
<td></td>
</tr>
<tr>
<td>Blood Pressure with ECG trigger for pediatric bicycle with ECG trigger</td>
<td>945836</td>
</tr>
<tr>
<td>SpO2 for control unit with touch panel (pediatric bicycle)</td>
<td>945837</td>
</tr>
<tr>
<td>Bluetooth Smart heart rate</td>
<td>945833</td>
</tr>
<tr>
<td>Packaging upgrade to wooden box</td>
<td>U501032W</td>
</tr>
<tr>
<td>Ultra heavy duty packaging</td>
<td></td>
</tr>
</tbody>
</table>

Corival Pediatric

Easy accessible and approachable for children
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 ✓
Linear workload control ✓
Fixed torque workload control ✓
Maximum rpm independent constant load 150 rpm
Minimum rpm independent constant load 30 rpm
Optional heart rate controlled workload ✓
Electromagnetic “eddy current” braking system ✓
Dynamic calibration ✓
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

Minimum leg length user (incl. adjustable pedals) 459 mm 18.1 inch
Allowed user weight 180 kg 396.8 lbs
Handlebar adjustment angle 360 °

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
Portuguese 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
Terminal operation mode
Selfdesigned protocol operation mode

Corival Pediatric
Easy accessible and approachable for children
Corival Pediatric

Easy accessible and approachable for children

Dimensions

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen resolution</td>
<td>800 x 480 pixels</td>
</tr>
<tr>
<td>Product length (cm)</td>
<td>105 cm (41.3 inch)</td>
</tr>
<tr>
<td>Product width (cm)</td>
<td>46 cm (18.1 inch)</td>
</tr>
<tr>
<td>Product height</td>
<td>98 cm (38.6 inch)</td>
</tr>
<tr>
<td>Product weight</td>
<td>58 kg (127.9 lbs)</td>
</tr>
</tbody>
</table>

Power requirements

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>V AC</td>
<td>100-240V V</td>
</tr>
<tr>
<td>Phases</td>
<td>1</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>160 W</td>
</tr>
<tr>
<td>Power cord IEC 60320 C13 with CEE 7/7 plug</td>
<td>✔</td>
</tr>
<tr>
<td>Power cord NEMA</td>
<td>✗</td>
</tr>
</tbody>
</table>

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 IIa
- CE class of product with optional BPM IIa
- CB according to IECEE CB ✔

Order info

| Partnumber:          | 960903                     |

*Specifications are subject to change without notice.*