

CORIVAL (906900)

The basic Corival ergometer can be extended with a Programmable Control Unit (former P-model) and/or a separate Blood Pressure Module. This means that if you only want to have bloodpressure measurement on your ergometer, you no longer have to order the programmable version (former PB-model). Of course, if you want to have both modules (Programmable and Bloodpressure), you can order these together.

The display unit of the standard Corival shows multiple ergometry parameters and you can determine your specific default settings and start-up menu. The Corival can be extended with the following options:

- **Programmable control unit.**
Besides the features of the standard Workload Programmer, the programmable control unit has an additional display facing the operator. You have the opportunity to freely programme up to 50 user-defined protocols. Possible programming parameters are: step, ramp, linear, heart rate, torque, repeat and all combinations of these parameters. The programmable control unit can be extended with an infrared port for wireless communication with a PC, laptop or PDA.
Blood pressure module.
Using this option you can extend your standard Corival with an accurate stress testing blood pressure monitor with Dimensional K-sound Analysis (DKA), triggered by a TTL pulse from an ECG system or by the optional heart rate receiver. The robust microphone has a double-sided pickup element for increased sensitivity and noise reduction. This module can be controlled by an external device, e.g. ECG system.

Special Features

The new Corival is a modern ergometer with an ergonomic, stable design and new operation methods make it even easier to use. Due to a simplified keyboard you can access the full menu function with only 3 buttons. In order to respond to individual requirements, it is possible to freely adjust the different parameters shown in the display and select one of five pre-programmed languages.



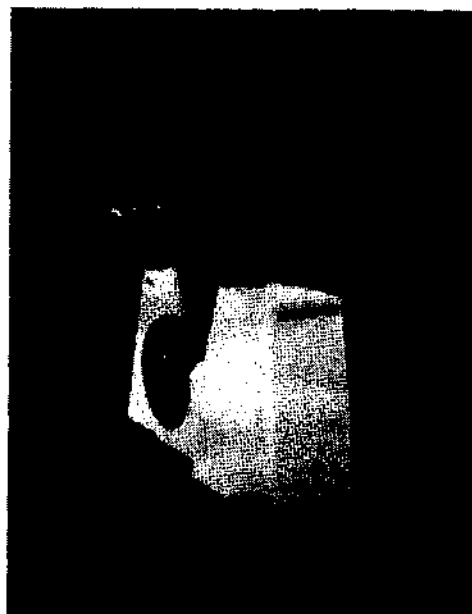
Specifications

- Dimensions : 115cm x 60cm x 114cm
- Weight : 56 kg
- Power consumption : 130 VA
- Workload range:
 - hyperbolic: 7-750 watt
 - linear: 7-750 watt
 - increments: 1 watt
 - peak load: 1000 watt*(peak load: 750-1000 watt during max. 6 minutes. Programming is possible from 7-1000 watt)*
- Workload accuracy
 - 7 - 100 watt: $\pm 3W$
 - 100 - 500 watt: deviation $< 3\%$
 - 500 - 1000 watt: deviation $< 5\%$

Options

- **Pediatric option**
Saddle child and crankshortener. Min. leg length: 590 mm
- **0-Watt start-up system**
This option makes it possible to start the Corival without load (0 Watt) at a rpm of 60. In this way there is no energy-loss due to the start-up phase.
- **Adjustable cranks**
- **Extra analog rpm meter**
- **Shortened saddle shaft 450 - 750 mm**
- **Pedal strap extension**
- **Heart Rate**
Sensor with receiver, built-in in ergometer, read out of heart rate on Workload Programmer.
- **PC Interface**
- **Modular software**

EXCALIBUR (910900)



The Excalibur is another Lode ergometer that is accurate, durable and that has a low noise level. The load of the Excalibur can be set up to 600/750 Watts, both for hyperbolic (RPM independent 600 Watts) and linear (RPM dependent 750 Watts) ergometry. A Workload Programmer (WLP) comes standard with the ergometer, to be able to control the unit manually or automatically. The software for the Workload Programmer includes the standard Astrand protocol and 50 free programmable user protocols. During tests the Workload Programmer display shows the workload (Watt), RPM, est. METS, est. VO₂, energy etc. The Excalibur has an RS232 outlet for communication with other systems or a personal computer by way of the bidirectional Computerlink option. The system with high maximum loads is suitable for occupational health care and sports medicine (for example examining police- and firemen).

The Excalibur can also be used for supine and arm ergometry. On a "leg" ergometer some people stop the exercise before a doctor has the required information about the heart. Some people cannot be tested on a standard ergometer because of amputation or paralysation. Then arm ergometry is the solution. The Excalibur can be used as arm ergometer by turning it 90 degrees; the ergometer is in vertical position and the pedals can be replaced by a handcurble set (see options).

Supine ergometry is also possible with the Excalibur. Again turn the ergometer 90 degrees; place a stretcher in front of it. In this way a test person can perform supine ergometry. It can be applied in cases when the patient cannot sit or walk. In special applications (supine and arm ergometry) you need a lower speed; this is possible with the Excalibur without loss of accuracy. The ergometer is RPM independent from 30-120 RPM.

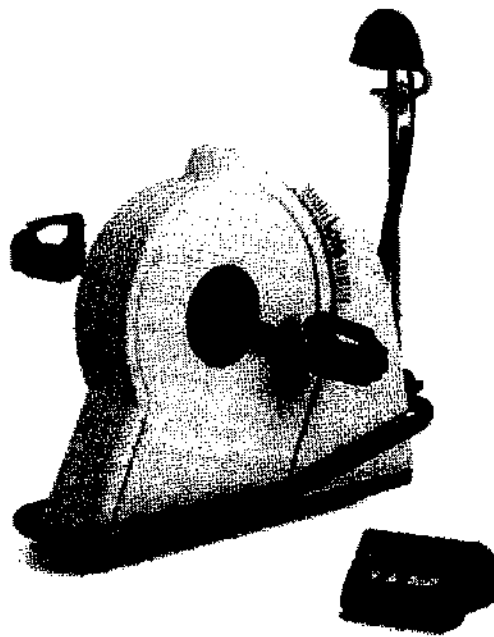
Specifications

- Load (continuously adjustable) : hyp 10-600W;
- lin 10-750W
- Weight : 90 kg
- Dimensions : 115cm x 70cm x 125 cm
- Accuracy : deviation <2%

Options

- Heart Rate
Sensor and receiver to monitor test person's heart rate. The heart rate is visible on the WLP display during tests if the function is activated.
- Sport Set
Sport saddle, toe-clips
- Handcurble
Instead of pedals, for arm ergometry
- Pedal Shoes
For foot fixing for dorsal ergometry
- Extra long saddle pin
Especially for tall persons up to 2.10m.
- Bidirectional Computerlink
A software package called Bidirectional Computerlink has been developed by Lode to enable you to control the ergometer and WLP to monitor test. Test data can be viewed in graphs or tables, showing for example RPM and Heart Rate recorded during tests. Data can be stored in patient files or on diskettes.
- Crankshorteners for pediatric use

ANGIO (917900)



The Angio has been redesigned and responds to the current requirements, both from the inside and from the outside. The most important changes are the workload range, which had been increased to 7 ~ 1000 watt and the new, modern design of the ergometer and the workload programmer (Control Unit). From now on, the Angio ergometer can be extended with different modules. Like the Corival, there is a basic ergometer for which a Programmable Control Unit and a Blood Pressure Module (or a combination of these two modules) are available.

The display unit of the standard Angio shows multiple ergometry parameters and you can determine your specific default settings and start-up menu. The Angio can be extended with the following options:

Programmable control unit.

Besides the features of the standard Workload Programmer, the programmable control unit has an additional display facing the operator. You have the opportunity to freely programme up to 50 user-defined protocols. Possible programming parameters are: step, ramp, linear, heart rate, torque, repeat and all combinations of these parameters. The programmable control unit can be extended with an infrared port for wireless communication with a PC, laptop or PDA.

Blood pressure module.

Using this option you can extend your standard Angio with an accurate stress testing blood pressure monitor with Dimensional K-sound Analysis (DKA), triggered by a TTL pulse from an ECG system or by the optional heart rate receiver. The robust microphone has a double-sided pickup element for increased sensitivity and noise reduction. This module can be controlled by an external device, e.g. ECG system.

Specifications

- Dimensions : 73cm x 42cm x 54cm
- Weight : 33 kg
- Workload (continuously adjustable):
Hyperbolic: 7-750 Watts
- Peakload 1000 Watts
- Rpm independant: 30-150 rpm
- Accuracy : deviation < 3%

Options

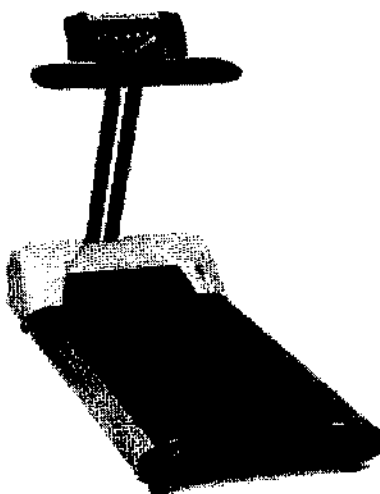
- Programmable Control Unit
- Blood Pressure Module
- Adjustable cranks
- RPM Set
- Heart rate
- Software Load Ergometry Manager
- Arm Ergometry Systems
- Imaging Systems

Valiant (932900)

The Valiant treadmill is new in the Lode product range. Lode has been developing and manufacturing cycle ergometers for over 50 years. Together with an experienced partner we have exclusively developed the Valiant in accordance with our three fundamental principles: accuracy, reliability and durability. The result is a modern and reliable treadmill that can be controlled both manually and by external equipment.

The control unit offers programming possibilities for speed, angle and standard tests like Bruce and Balke. With the heart rate option it is possible to program several heart rate controlled protocols. The low step-up height makes the treadmill perfectly suitable for all test subjects in the field of cardiology, rehabilitation and pulmonary function.

With the Valiant treadmill, Lode has broadened the product range and offers all solutions in the field of bicycle, treadmill, arm and imaging ergometry!



Valiant

The Valiant has a smooth acceleration from 0 km/h and is continuously adjustable in a range of 0,5 – 20 km/h (0.3 – 12 m/h). The treadmill can be controlled with the control unit or by external equipment. Together with the elevation of 0-25%, this treadmill is the solution for use in cardiology, pulmonary function, physiotherapy and sports medicine settings.

VALIANT SPECIAL

Special treadmills with extraordinary dimensions for e.g. wheelchairs or roller-skates are also available. It is possible to provide a wider or extended running surface, a higher maximum speed, etc. Please contact Lode for a solution if you need a treadmill with specific specifications.

Features

- The Valiant treadmill has a modern and stable design;
- The extreme low step-up height guarantees easy access for all test subjects;
- Zero starting speed: a smooth acceleration from 0 km/h;
- Speed adjustment in the range of 0,1 - 12 km/h (0.1 - 7.5 mph) for the Valiant Rehab;
- Speed adjustment in the range of 0,5 - 20 km/h (0.3 - 12 mph) for the Valiant;
- Speed in steps of 0,1 km/h (0.1 mph);
- Programming possibilities for user defined tests or well-known standard tests like Bruce or Balke;
- Programming possibilities for heart rate controlled running are optional available;
- Shock absorbing design for running comfort;
- Stop feature with magnetic lanyard for safe use of treadmill;
- Optional rear elevation of the treadmill permits downhill walking in the same direction;
- Easy to reach and simple control unit on the front handrail for operator comfort and maximum safety;
- Adjustable angle for control unit mounting;
- RS232 interface for connection to external equipment;
- The belt is centred automatically: no additional adjustments are necessary;
- Quality AC motor delivers precise speed control; there is no "lag" when the foot strikes the belt;
- The treadmill is maintenance free: no belt-greasing is required and the motor has no friction parts;
- Quiet operation.