

# Valiant Ultra 250

Multifunctional robust and reliable treadmill



## Highlights

### Compatible with ECG and pulmonary devices

The treadmill can be controlled by all external stress test ECG and ergospirometry devices through the RS232 or USB port. This is possible because besides the programmed Lode protocol, all known communication protocols are programmed as well.

### Various handrails available

Various handrails are optional available, making the treadmill suitable for your specific stress test setting.

### Smooth acceleration

All treadmills have a smooth acceleration from 0 km/h to the start speed.

### Extreme performance option available

Various options make this treadmill the gold standard for top athletes:

- high speeds
- negative elevation
- fallstop
- reverse speed

### Unique designed running surface

The running surface of the treadmill is extremely efficient because of the placement of the motor.



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Ultra large treadmill for various applications. By choosing accessories and options the treadmill can be configured to your specific application. The standard configuration is as follows:

- Belt surface: 250 x 150 cm
- Speed: 0 - 40 km/h
- Start-up speed and speed steps: 0,1 km/h
- Positive elevation: 0 - 25%
- Negative elevation: -25 - 0 %
- Safety: fallstop, emergency stop button and safety lanyard
- Display: programmable 7" Control Unit showing most important ergometry parameters
- Handrails: adjustable and removable
- Connectivity: to be controlled by external ECG- and Pulmonary devices and by a Lode Software Network (LEM or LCRM)
- Maximum patient weight: 225 kg

The functionality of this treadmill can be enhanced considerably by using it with the Lode Ergometry Manager Software (#955900).

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. To connect LEM or LCRM you need a special interface cable that can be ordered under part number 930930.

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## Features



### Versatile Interfacing

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

**0.1**  
km/h

### Small adjustment steps

The speed of the treadmill can be adjusted in the smallest steps of only 0.1 km/h!



### Robust design

The product is designed to withstand continuous heavy use by subjects in most weights and sizes.



### Optional integrated BPM and SpO2

The treadmill can be extended with a stable and reliable blood pressure module and SpO2 measurement.



### Standard Safety Lanyard

The product comes with a standard safety lanyard to enable automatic emergency stop



### Service friendly belt treadmill

Lode treadmills are almost maintenance free. Because of the unique impregnated belt, no belt-greasing and no bearing-greasing are required. The belt is centered automatically without additional adjustment. The only annual maintenance that has to be done is checking the running and electrical parts and the velocity calibration of the treadmill.



### Positive Elevation

The positive elevation of the treadmill is standard 25%. This slope is enough for protocols used for the normal and healthy test subjects. Other elevations are available on request.



### Closed loop motor control

This way of motor control enables


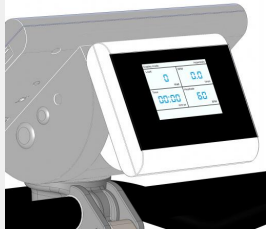







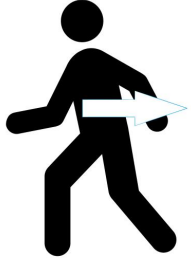




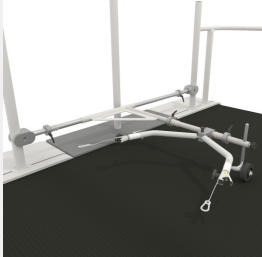
- Full brake at zero speed.
- Rigid speed control at all speeds, typically at interest when using steep angles, low speeds and/or high Test Subject weight.
- Load independent speed
- Angle independent speed

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Valiant Ultra 250 can also be extended with the following options:

<p><b>Remote Control for treadmill</b></p> <p>Ease of use</p>  <p>Partnumber: 945831</p>	<p><b>Colour Display 3.5" - 2nd screen</b></p> <p>Multifunctionality</p>  <p>Partnumber: 945819</p>	<p><b>SpO2 for control unit with touch panel (treadmill)</b></p> <p>Oxygen saturation</p>  <p>Partnumber: 945822</p>	<p><b>SpO2 for control unit with touch panel - ordered afterwards</b></p> <p>Ordered afterwards</p>  <p>Partnumber: P945822</p>	<p><b>Blood Pressure Measurement with ECG trigger for treadmills</b></p> <p>with ECG trigger</p>  <p>Partnumber: 945824</p>
<p><b>Heart rate for treadmills</b></p> <p>Heart rate in beats per minute</p>  <p>Partnumber: 945820</p>	<p><b>Emergency Stop Button</b></p> <p>Ultimate safety</p>  <p>Partnumber: 945804</p>	<p><b>Autospeed</b></p> <p>Flexibility in exercising</p>  <p>Partnumber: 945840</p>	<p><b>Adjustable Acceleration &amp; Deceleration for Katana &amp; Ultra</b></p> <p>Flexibility in exercising</p>  <p>Partnumber: 945847</p>	<p><b>Reverse walking for Valiant Ultra</b></p> <p>walking backwards</p>  <p>Partnumber: 938843</p>
<p><b>Ambient sensor pack</b></p> <p>Check environmental conditions during test</p>  <p>Partnumber: 945826</p>	<p><b>Bottle holder</b></p> <p>Convenient beverage storage</p>  <p>Partnumber: 401200</p>	<p><b>Extension for emergency lanyard</b></p> <p>Original Accessory</p>  <p>Partnumber: 945931</p>	<p><b>Table foot for Control Unit with Touchscreen</b></p> <p>Control from any desired place</p>  <p>Partnumber: 945818</p>	<p><b>Wheelchair support for Valiant Ultra 250</b></p> <p>Versatile wheelchair testing</p>  <p>Partnumber: 938870</p>

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## Specifications

### Workload

Maximum speed	40 km/h	24.9 mph
Minimum operational speed	1 km/h	0.6 mph
Speed adjustment steps	0.1 km/h	0.1 mph
Positive elevation	25 %	
Negative elevation	-25 %	

### Comfort

Allowed user weight	225 kg	496 lbs
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### User Interface

English user interface	✓
Norwegian user interface	✓
Czech user interface	✓
Danish user interface	✓
Dutch user interface	✓
Finnish user interface	✓
French user interface	✓
German user interface	✓
Italian user interface	✓
Japanese user interface	✓
Korean user interface	✓
Polish user interface	✓
Portugese user interface	✓
Russian user interface	✓
Spanish user interface	✓
Turkish user interface	✓
Ukrainian user interface	✓
Readout Angle	✓
Readout Target Angle	✓
Readout Distance	✓
Readout Speed	✓
Readout Energy	✓
Readout Time	✓
Set Display	✓
Customized Screenviews	✓
Manual operation mode	✓
Quick start operation mode	✓
Touchscreen	✓

### Connectivity

Lode 38K4 interface protocol	✓
Lode ERM interface protocol	✓
"HP Cosmos" interface protocol	✓
"Woodway" interface protocol	✓
"Trackmaster" interface protocol	✓
"GE" interface protocol	✓
USB connector	✓
RS232 in connector	✓

### Dimensions

Walking surface length	250 cm	98.4 inch
Walking surface width	150 cm	59.1 inch
Step up height	35 cm	13.8 inch
Product length (cm)	254 cm	100 inch
Product width (cm)	246 cm	96.9 inch
Product height	130 cm	51.2 inch
Product weight	850 kg	1873.9 lbs

### Power requirements

Power cord 3L+N+PE	✓
Power cord NEMA	✗
Maximum rated power input	8000 VA
3 x 400 V	✓
Maximum motor power	8 kW

### Standards & Safety

ISO 9001:2008 compliant	✓
Integrated emergency stop	✓
Standard emergency lanyard	✓

### Order info

Partnumber: 938925

\*Specifications are subject to change without notice.



**FOR LIFE** | UNDERSTANDING  
MOVEMENT & PERFORMANCE

ISO 9001:2008 and ISO 13485:2003 certified

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