

# Valiant Ultra 450

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.

### Extreme performance option available

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

- high speeds
- negative elevation
- fallstop
- reverse speed

### Extreme speed up to 40 km/h

The treadmill standard has a speed from 0 - 40 km/h

### Unique ultralarge dimension

The extreme dimensions of this treadmill provides the possibility to use for various applications and sportsmedical settings.



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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 available configuration is as follows:

- Belt surface: 450 x 300 cm
- Speed: 0 - 40 km/h
- Start-up speed and speed steps: 0,1 km/h
- Positive elevation: 0 - 15.5%
- Negative elevation: -15.5 - 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.



### 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



### Positive Elevation 15%

The positive elevation of the treadmill is 15%. This slope is enough for protocols used for the normal and healthy test subjects. Other elevations are available on request.









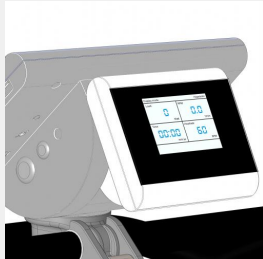
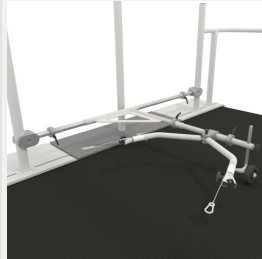
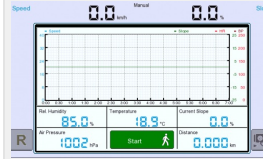





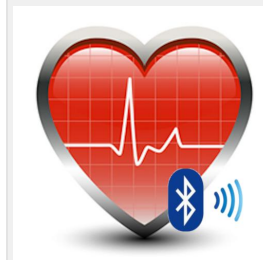
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MOVEMENT & PERFORMANCE

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Valiant Ultra 450 can a.o be extended with the following options:

<p><b>Emergency Stop Button</b></p> <p>Ultimate safety</p>  <p>Partnumber: 945804</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>Blood Pressure Measurement with ECG trigger for treadmills with ECG trigger</b></p>  <p>Partnumber: 945824</p>	<p><b>SpO2 for control unit with touch panel (extra long cable)</b></p> <p>Oxygen saturation</p>  <p>Partnumber: 945822</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>Colour Display 3.5" - 2nd screen</b></p> <p>Multifunctionality</p>  <p>Partnumber: 945819</p>	<p><b>Wheelchair support for Valiant Ultra 450</b></p> <p>Versatile wheelchair testing</p>  <p>Partnumber: 938872</p>	<p><b>Ambient sensor pack</b></p> <p>Check environmental conditions during test</p>  <p>Partnumber: 945826</p>	<p><b>Entrance plate Valiant Ultra</b></p> <p>Easy entrance</p>  <p>Partnumber: 938852</p>
<p><b>SpO2 for control unit with touch panel - ordered afterwards</b></p> <p>Ordered afterwards</p>  <p>Partnumber: P945822</p>	<p><b>Remote Control for treadmill</b></p> <p>Ease of use</p>  <p>Partnumber: 945831</p>	<p><b>Adjustable Acceleration &amp; Deceleration for Katana &amp; Ultra</b></p> <p>Flexibility in exercising</p>  <p>Partnumber: 945847</p>	<p><b>Remote Control for treadmill (ordered afterwards)</b></p> <p>Ease of use</p>  <p>Partnumber: P945831</p>	<p><b>Bluetooth Smart heart rate</b></p> <p>Heartrate available within an extreme wide</p>  <p>Partnumber: 945833</p>

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## Specifications

### Workload

Maximum speed	40 km/h	24.9 mph
Minimum operational speed	01 km/h	0.6 mph
Speed adjustment steps	0 km/h	0 mph
Positive elevation	15 %	
Elevation adjustment steps	0 %	
Negative elevation	-15 %	

### Accuracy

Speed accuracy <2 km/h	± 0,1 km/h
Speed accuracy >2 km/h	± 5 %
Accuracy inclination	0,3 %

### Comfort

Allowed user weight	225 kg	496 lbs
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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 Angle	✓
Readout Target Angle	✓
Readout Distance	✓
Readout Speed	✓
Readout Energy	✓
Readout Time	✓
Set Display	✓
Customized Screenviews	✓
Manual operation mode	✓
Quick start operation mode	✓
Touchscreen	✓

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## Connectivity

Lode 38K4 interface protocol	✓
Lode interface protocol	✓
Lode WLP interface protocol	✓
"HP Cosmos" interface protocol	✓
"Woodway" interface protocol	✓
"Trackmaster" interface protocol	✓
"GE" interface protocol	✓
USB connector	✓
Analog connector	✓
SpO2 connector	✓
RS232 in connector	✓
RS232 out connector	✓

## Dimensions

Screen resolution	800 x 400 pixels	
Walking surface length	450 cm	177.2 inch
Walking surface width	300 cm	118.1 inch
Step up height	35 cm	13.8 inch
Product length (cm)	475 cm	187 inch
Product width (cm)	395 cm	155.5 inch
Product height at no elevation	260 cm	102.4 inch
Product height at maximum elevation	305 cm	120.1 inch

## 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 9001:2015 compliant	✓
Integrated emergency stop	✓
Standard emergency lanyard	✓

## Order info

Partnumber: 938945

*\*Specifications are subject to change without notice.*