



Lumber cross-section measurer Vector-LMS

The measurer is designed to work as part of automated lumber sorting lines for non-contact determination of board thickness and width. The principle of thickness measurement is laser triangulation distance sensors, width measurement is based on encoder pulses. The control unit processes the signals from the sensors and provides the control system with information about the board cross-section. Setting and calibration of the cross-section measurer is carried out using special software.

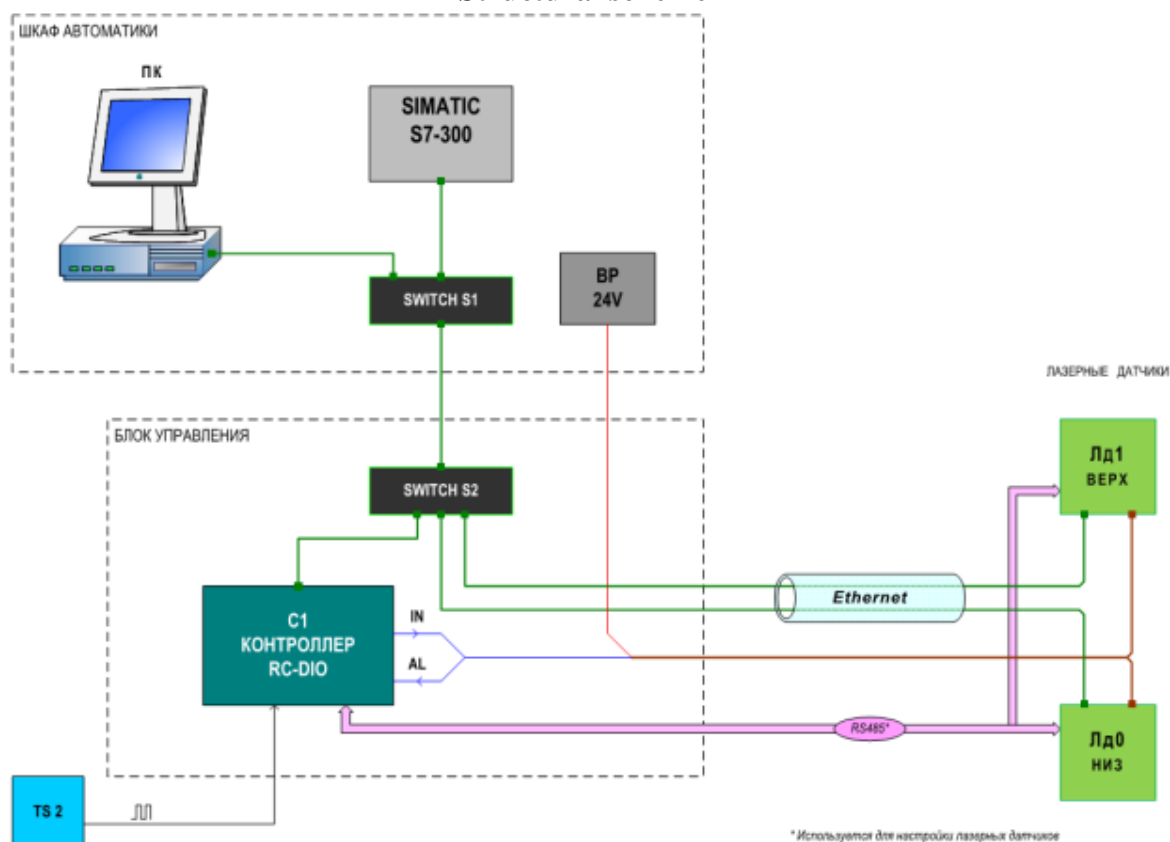
The measurer as a unit includes control unit, two laser triangulation distance sensors, connecting cables, incremental encoder, setup software and documentation.

Main technical parameters:

- Board cross-section measurement at one place along the board length
- Thickness measurement accuracy is $\pm 0,2$ mm
- Width measurement accuracy is ± 2 mm
- Thickness measurement frequency is up to 2500 Hz
- Communication interfaces: Ethernet, RS485
- Operating temperature $-10\dots+45^{\circ}\text{C}$
- Supply voltage 24 VDC

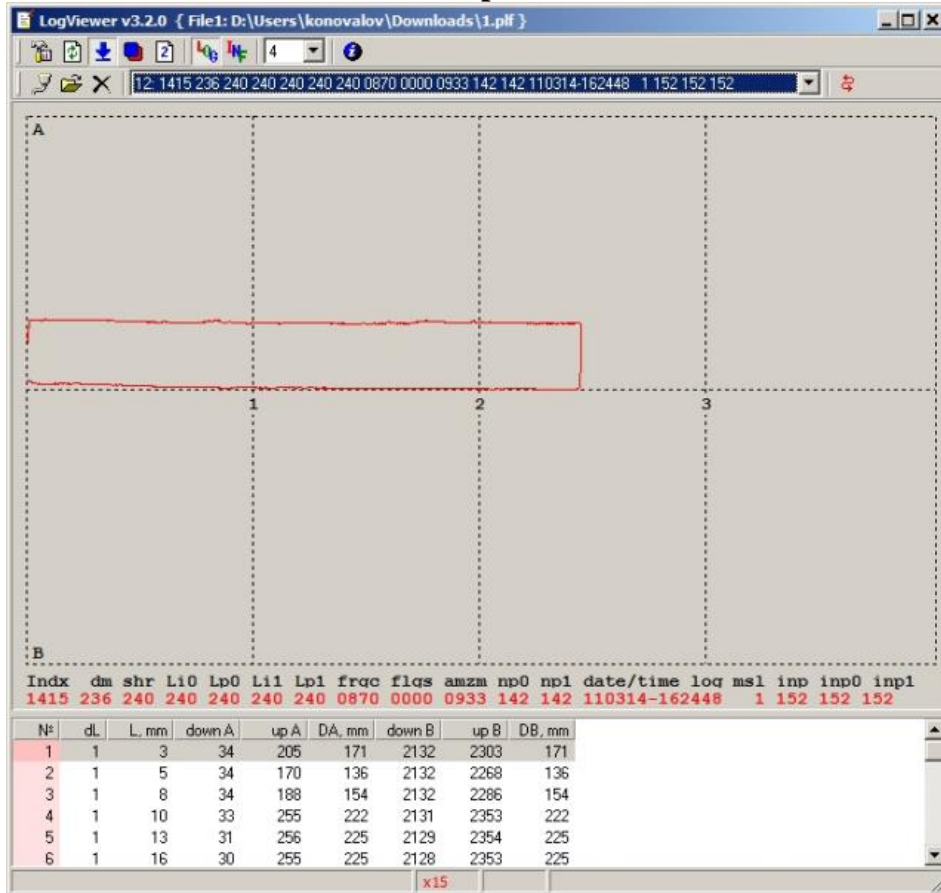
Vector-LMS allows one to sort lumber by cross-sections with high precision on the lines with a feed rate of up to 150 boards per minute.

Structural scheme





Board profile



Control unit





Laser sensor



Mounting on the conveyor

