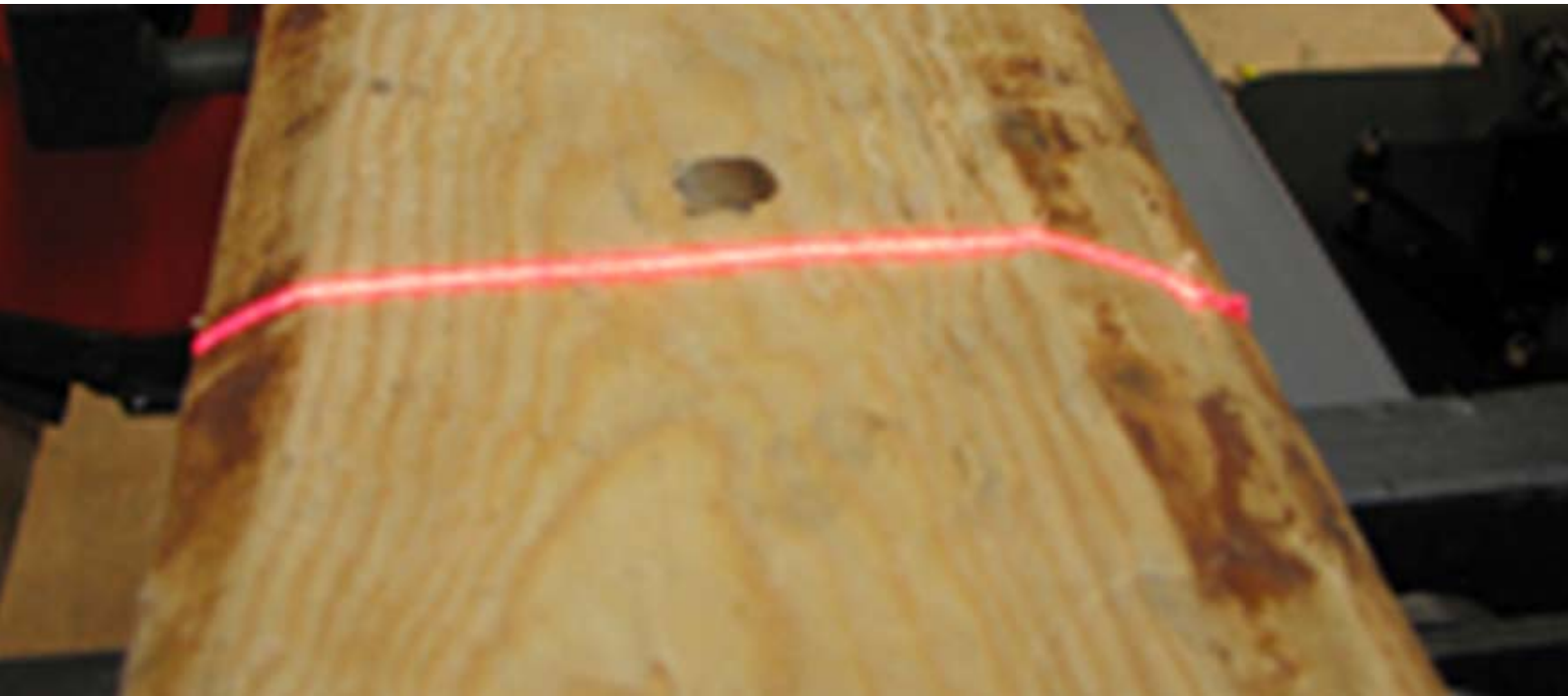


BoardProfiler L



System for measuring wane and defects in a linear conveyor.

LIMAB BoardProfiler L gives a complete evaluation of boards thickness profile in linear conveyors. The system can easily be mounted in an existing conveyor with limited installation costs. The system can be used for boards with a width of up to 300 mm.

Internal system communication runs via ethernet, which minimizes cabling at installations. External system communication via serial RS232C and digital I/O.

LIMABs newly developed 2-D ProfiCura sensor is the base in the system. The ProfiCura uses the latest digital and optical laser technology with an advanced built-in microprocessor (DSP Digital Signal Processor) and CMOS-array. This gives the high measurement accuracy required in the wood industry of today. The maintenance cost is low depending due to non-contact measurement and sensors that are not affected by surrounding light or wet boards.

Measurement method

Non-contact synchronized measurement. Measurement intervals is given by an encoder, mechanically connected to the conveyor. The encoder gives a signal to the PC which informs about the boards position. On the PC screen the complete profile of each board are shown. The profile updates for every new board. The products ID and data will be logged in an Excel file.

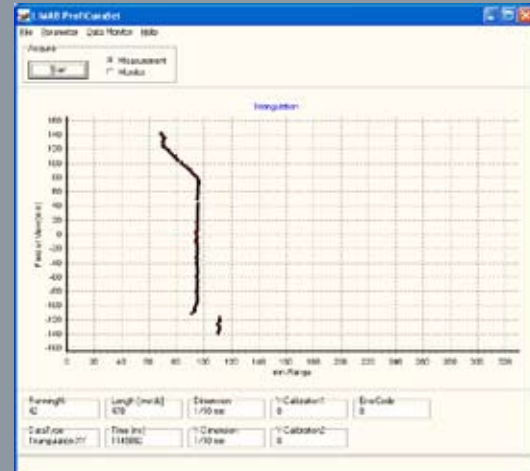


SoftwarePC

- Receives measurement data from ProfiCura profile
- Turns board when wane
- Reject board when defect acc. to spec.
- Saving of all rawdata for the possibility to look at boards afterwards. (50 boards)
- Unlimited numbers of boards numerical values can be stored on the computers hard disc.
- Out put to superior system via RS232, digital, TCP/IP. Prepared for network.
- Service menu shows status and Q-value for all sensors. Graph from all rawdata for the last measured board.
- Swedish/English text for the program.
- Diagnostic menu with alarm for fault.

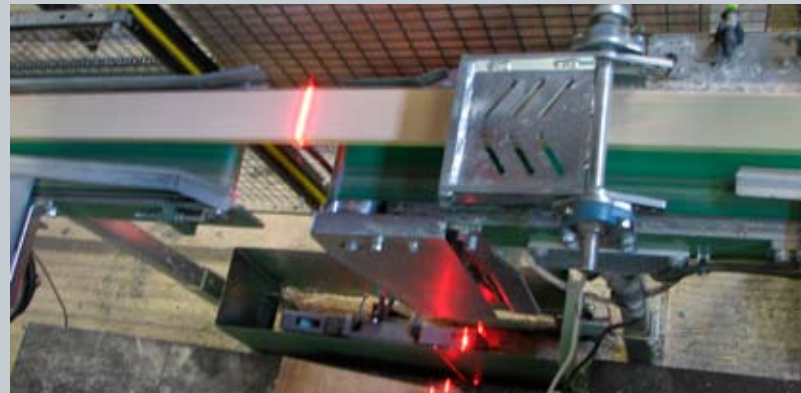
Scope of supply:

- 2 pcs. ProfiCura Profile with 3-point brackets
- 1 pcs encoder
- 1 pcs. Air purge system with filter, valve and timer output. On this systems unit there are also mounting terminals and 230VAC/24VDC voltage converter. For placement near the measuring frame.
- Air knife, bracket and nozzle for air purge
- 1pcs. PC
 - 21,5" Screen
 - 5 pcs LAP-CAN card (max 16 sensors)
 - Software for PC, Windows-based



Technical specification PreciCura Profiler sensor:

Measurement Range	300 mm
Stand off	950 mm
Resolution	1/10 mm
Measurement speed	240 profiles/s, 478 points/profile
Power supply	18-36VDC
Measuring algorithm	Triangulation with modified "centre of gravity" Suppression of background light and secondary reflections.
Laser power	< 50 mW
Operating temperature	0.. +40°C



LIMAB were founded almost 30 years ago and have a long tradition of producing laser sensors and non contact measuring systems to meet the needs of the sawmill industry. The headquarters and manufacturing plant is located in Gothenburg, Sweden. LIMAB have regional offices in the USA, Finland, Germany and the UK and is represented in other parts of the world directly from Sweden or via representatives, agents and partners. Today we have customers benefitting from using our measuring systems in sawmills in the Nordic countries, Europe and North America.



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