

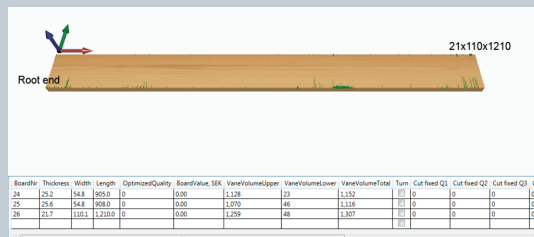
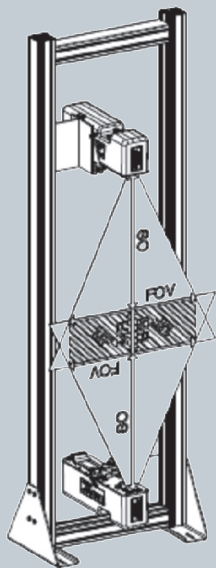
Application note Hit & Miss system (Lineal Process)

System description

LIMAB BoardProfiler L is designed for easy installation in new and old lines. The Ethernet based system gives a complete description of board's geometry and defects in lineal processes.

The BoardProfiler L uses 1 or 2 ProfiCura 600 sensors for continuous control of thickness, with, wane, holes, cracks and deformation defects on any kind of wooden board. The system can be used to measure board widths up to 600 mm and speeds up to 400 m/min. The system can easily be mounted in an existing line with low installation costs.

LIMAB ProfiCura 600 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 measuring accuracy that today's wood industry demands.



Measurement method

Non-contact synchronized measurement by the ProfiCura 600 sensor. On the PC screen the board's complete profile will be shown with all parameters to optimize the board. Profile update for every new board. 1,25 million measurement values are evaluated every second. System thickness accuracy +/- 0,05mm. LIMAB sensors are insensitive to ambient light and level of moisture in the wood.



Benefits

- LIMAB Hit & Miss system will find defects both across and along the whole surface with high resolution.
- Applications: optimization for cross-cut, sorting out of tolerance, detect small geometrical defects.
- Classification according to; thickness, width, wane, cup, holes, open cracks and deformation.
- Specific parameters for each defect.
- Laser detects geometrical defects better than a camera system.

References

The BoardProfiler has been installed in almost 200 sawmills all over the world. For applications in trimmer-, edger-, canter-, rip saw-, crosscut-, control- and sorting-lines.