LIMAB®
CONTROL BY MEASUREMENT

Application note
Edging / Rip-Saw / optimization (Lineal Process)

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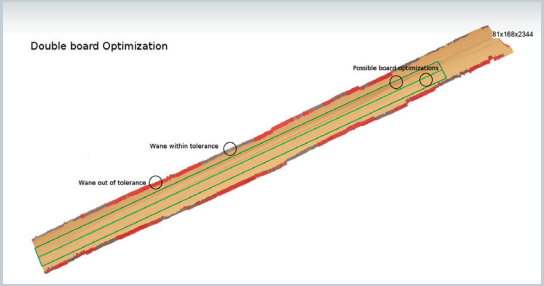
System description

LIMAB BoardProfiler L is a laser-based measurement system for lineal processes designed to be easily installed in new and existing lines. The system is used to optimize wooden boards in an edger, rip-saw line or in other optimization processes.

The software provides a complete description of the board's geometry and its defects.

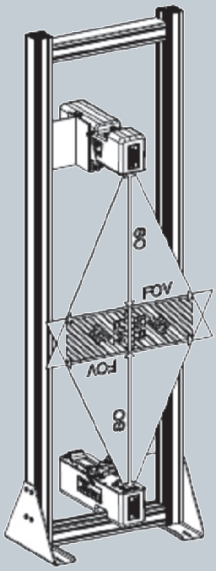
BoardProfiler L uses one or two ProfiCura 2D sensors for continuous monitoring of thickness, width, wane, cup, deformation, holes, cracks and dark knots. Optimization can be done on any defect parameters. ProfiCura 2D is available in several versions in order to adapt the system to different applications. The sensors are available from 85 mm to 600 mm field of view (line width) and measures up to 1000 profiles / sec.

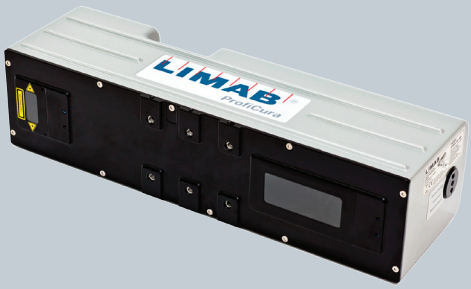


Measurement method

Non-contact measurement by synchronized ProfiCura 2D sensor. The system screen shows the board's full profile with all parameters for optimization. Each profile is evaluates 1.25 million measured values every second. Thickness accuracy is +/- 0.05 mm.

LIMAB ProfiCura laser detects geometric defects better than a camera and they are independent of ambient light and moist wood.





Benefits

- Price optimization according to product table.
- Classification according to; wane, thickness, width, cup, hole, open cracks and deformations and dark knots.
- Specific parameters for each defect.
- Allowable wane width and length (wane thickness, % of the board width)
- Optimization with or without rip-saw.
- LIMAB BoardProfiler L optimize up to five blades with high accuracy

References

The BoardProfiler have been installed in nearly 200 sawmills worldwide. For applications in edger-, ripsaw-, crosscut-, control- and trimmer lines for sorting, optimization and classification.

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