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3D scanner for TELETWIN



Machine vision has been in widespread use in the wood products industry for many years.

Reliability in the harsh environment is the first request.

As the need for higher production increases the industry is requesting faster scan data.

For log scanning the need to scan away from the machinery that is handling the logs is important followed by accurate 3D profiles systems to make volume measurements on the log before sawing.

The sawmilling industry wants to increase the yield and production levels, decrease the number of rejects and have a flexible production with short change over times

Site Internet : <http://www.memwood.com> - E-mail : contact@membois.fr

3D scanner for TELETWIN

How important is 3D-based scanning to the wood products industry?

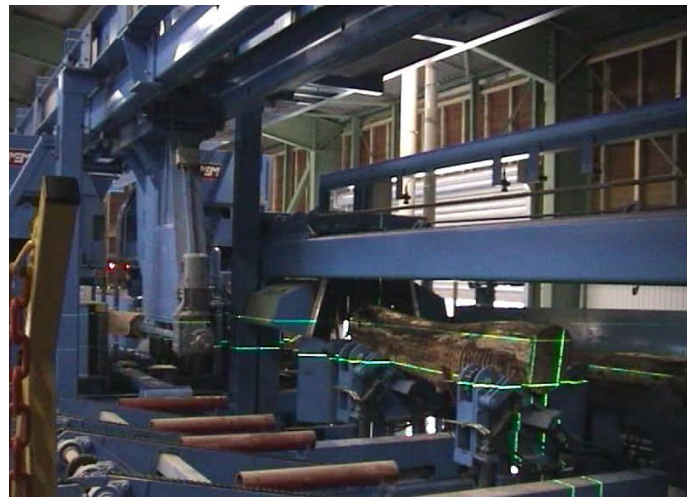
- This has been the most significant advancement in the last 5 years for primary log scanning.
- It has allowed the more robust software packages to improve the recovery for at least a 3 to 4% and sometimes as much as a 10 - 14% yield improvement.

What are the advantages?

- ✓ Better data defining real shape of wood as the main advantage. Logs are not round, nor are they straight.
- ✓ The solution represents the real recovery and can allow for variations in the wood shape.
- ✓ Prior to 3D log scanning the assumption was that the log was round or oval with the resulting solution either wasting wood or the piece having to be remanufactured due to missing wood the scanner could not detect.
- ✓ Additionally log rotation has gained recovery that could not be exploited with 2D scanners.
- ✓ One big advantage of 3D instead of 2D in log scanners is the treatment of "out of round" logs. A 2D scanner can't separate a round log from an "oblong" one."
- ✓ In running a sawmill operation you try to cut what the market calls for today with an eye toward tomorrow. Prices change daily, which means in many cases that a mill must constantly retrain their people who make the cutting decisions. This is why automated scanning and optimization is of such interest.
- ✓ For the environmentalists, there are less trees being cut for the same production.

Others data

- ✓ A programme for selecting the logs, calculating and optimising the cut
- ✓ It performs all the common types of cut like model cut with single prism or multiple prisms.
- ✓ It produces a database of the fundamental characteristics of the log, in 3D
- ✓ It produces pre-calculations on the basis of real and virtual data
- ✓ Simple and user-friendly software



NEW : UPDATE of the existing TELETWIN or TELECANT line possible