MiCROTEC

Logeye 601 DSC

Multi-Sensor Quality Scanning for four-sided quality evaluation on cants

Functional description of front end cameras in combination with Logeye 600

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The Logeye 600 scanner is designed to analyze wooden cants in the sawmilling production process. The aim is to integrate the machine into profiler lines and into re-saws for high quality lumber production. The combination of automatic quality inspection allows an autonomous system for superior grade and high volume production.

PRODUCTION APPLICATIONS

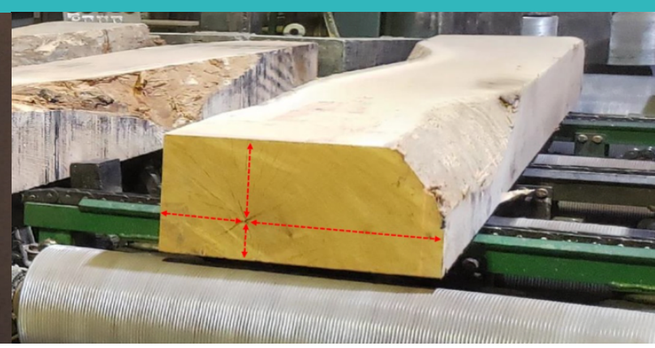
Sawmill

x Resaw systems

x Profilier lines

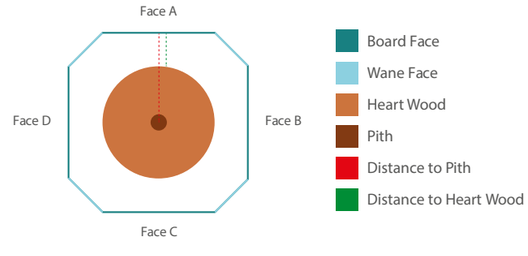
Multi-sensor quality scanning of a four-sided cant within a sawline

Technology	Camera & laser
Measurement field	up to 19.7’ * 19.7’ or 500mm x 500mm
Measurement speed	up to 1640ft/min or 300m/min



The **quality inspection** of the four sided cant uses a combination of different **sensor techniques** in combination with **artificial intelligence AI** to obtain a brilliant **defect detection** on the scanned material. The quality evaluation uses the function of NHLA grading to select the side with the highest yield for the next cut. In addition to the four side inspection the system can be extended to **analyse** also the **front ends of the cant**. The detected defects are placed in an x-y matrix and for each of the active defects the distance to the surface is calculated. This helps to take e.g. color heart and pith into consideration for the optimization result and balance an optimum board width in combination with maximum quality.

(Optimization on the four faces according NHLA grading)



(Calculation of Pith and Heartwood distance)

Furthermore this calculation can be used for **heart wood containing species** to cut as many two face non discolored boards as possible, by calculating the distance to the detected heartwood.

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24/7 MiCROTEC SUPPORT

World leading wood scanning solutions

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