



AUTOMATED VISION SYSTEMS

Smart cameras for
assessing wood quality

Board Vision Strength Grader
+ Ecooustic Board Grader
= a comprehensive
structural grading system



AUTOMATED VISION SYSTEMS

By combining smart cameras with our Ecooustic™ products, we gain even more knowledge regarding structural wood quality. Our automated vision systems can be used in many ways within your processing plant to maximise the confidence and reliability of our structural wood grading systems.

We have partnered with Camsensor Technologies, experts in the field of machine vision, who design and manufacture smart camera systems and image processing software. We have customised and integrated their camera systems to our specific structural grading requirements.

BOARD VISUAL GRADER

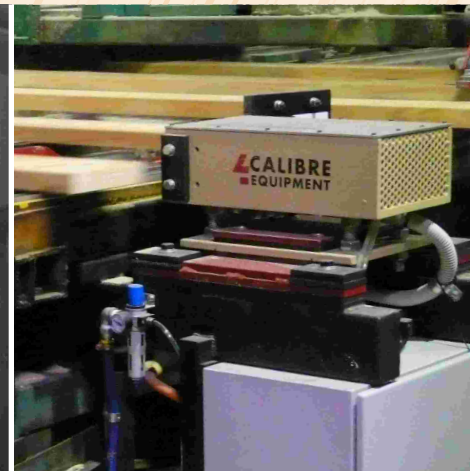
An automated vision system for strength grading of Boards. It's never late, always consistent and works for below minimum wage.

For the ultimate in structural board grading, combine our board visual grader with our Ecooustic Board Grader. This package will work in harmony to accurately and consistently grade the strength and stiffness of boards in the green or dry mill. Our intuitive optimisation algorithms and software will ensure that optimal processing decisions are made to maintain compliance while maximising grade yield and profits.

- Operates in a transverse processing chain
- Assesses knots (type, size, position), wane, resin and pith (face and end)
- Better than 1mm resolution over 6m board lengths
- Can grade both sides of the board by incorporating an automated board turner or alternatively cameras can be mounted underneath
- Uses Camsensor high resolution smart cameras
- Customisable grade parameter schedules
- Remote access
- Web based database and reporting software



Camsensor smart cameras



Combine with Ecooustic Grader

Automated vision systems

- Can be applied to Boards, Fitches, Cants and Logs
- Can assess faces and ends of wood
- Ability to assess green or dry wood
- View heartwood and sapwood regions within wood
- View juvenile and mature wood regions within wood
- 3D profiling – shape, taper, LED, SED, sweep, nodal swelling, wane
- Proven image processing and detection algorithms
- Strength specific grading algorithms
- Combine with our Ecooustic Graders for 'eyes and ears'