



ECOUSTIC™ BOARD GRADER

A structural timber grading machine
that enhances production efficiency

A board's structural strength is determined by its stiffness or modulus of elasticity—MoE. With known density, the stiffness is proportional to the speed sound waves travel through a piece of lumber. This is the science behind the Ecooustic™ Board Stress Grader.

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ECOUSTIC™ BOARD GRADER

Sorts timber for density and stiffness and is capable of assessing random dimension, random length timber in the green condition.

Dimension, weight and acoustic wave velocity are measured and captured for every board processed and used to grade boards according to required parameters.

Grading boards at the start of production maximises production efficiency. Eliminating the costs of drying, gauging and treating low grade low value boards will reduce production costs and increase profitability.



Improving your bottom line

- ▶ Maximises production efficiency by grading boards at the start of production
- ▶ Sorts boards for density which enables efficient kiln drying
- ▶ Minimal operator control or training
- ▶ Increased grading speeds
- ▶ Ability to check sawing tolerance
- ▶ Installed into a standard lugged processing chain requiring no additional floor space
- ▶ Low operating and maintenance costs
- ▶ Provides excellent traceability for audit and production tallying
- ▶ Data can be utilised to analyse log resource

Traditional Mechanical Grader

	KILN	PLANER	TREAT	GRADING PROCESS
Reject timber	\$	\$	\$	x
Low Grade	\$	\$	\$	x
Target Grade	\$	\$	\$	✓

Save time and money by grading at the start of production

Ecoustic Grader

	GRADING PROCESS	KILN	PLANER	TREAT
Reject timber	x	-	-	-
Low Grade	x	-	-	-
Target Grade	✓	\$	\$	\$

An innovative, accurate and robust machine

- ▶ Innovative, accurate and robust design of hardware and mechanical parts
- ▶ Industrial computer, LCD monitor and control system all housed in a stand alone dust proof IP55 cabinet
- ▶ Spray marking system (grade colour marked on end of board)
- ▶ Internet based remote access
- ▶ Serial or Ethernet output communication to existing PLC and/or tallying system
- ▶ Data output to Calibre's TimberGrade™ data management software

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