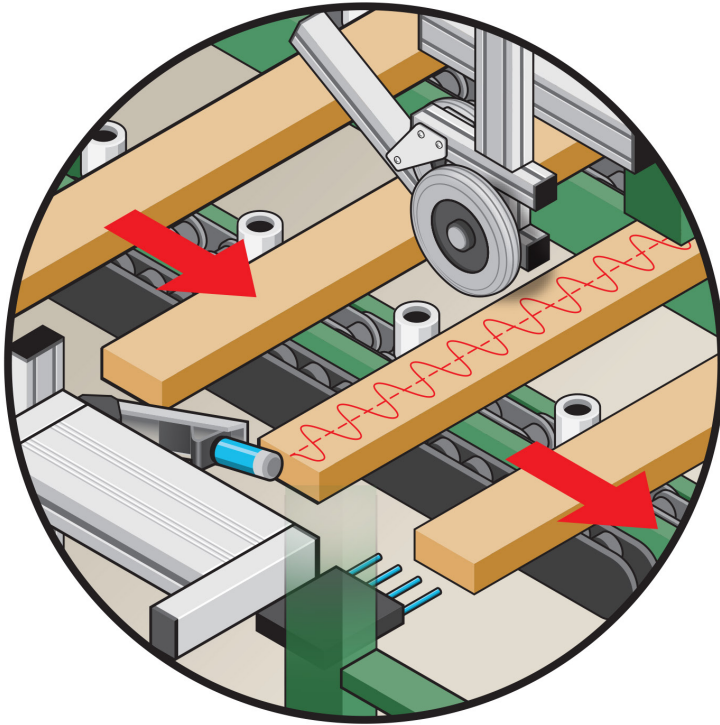


PRECIGRADER

ACOUSTIC MSR SYSTEM



FINNA
SENSORS



Overview

Finna Sensors represents Dynalyse's Precigrader system – the industry-leading acoustic MSR system. Measuring acoustic vibrations and density, the system estimates lumber stiffness and strength; properties critical for classification of 1650, 1800, 2100 and 2400 MSR grades for North America. The system is approved by both the ALS and CLS.

Features

- Compact footprint requires 4 ft of space for the system to be installed, usually easily inserted into an existing line
- No active components – passive hammer mechanism and weight measurements don't require any pneumatics or air supply, greatly enhancing the production opportunities
- Effective for classifying both green and dry lumber by strength properties
- Capable of measuring MSR at speeds of 260 lugs/min on a transverse conveyor
- Optional inputs of board dimensions and moisture content through several integration options

Benefits

- Easy-to-use interface outputs MSR grade production values and reject reasons, to help production planning
- Cost-effective and accurate strength grading allows for measurement of each board, effectively increasing the volume of MSR yield
- Superior precision maximizes yield of MSR
- Flexible integration with PLC including queuing function
- Minimal maintenance

LUMBER INTEGRATION MAP

SAWMILL

KILN

PLANER

SPECIFICATIONS

MAIN CONTROL UNIT

Controller: 23.6" (H) x 23.6" (W) x 13.7" (D) /
60cm x 60cm x 35cm

Hammer & Sensor Unit: 23.6" (W) x 23.6" (D) at the line

ACOUSTIC SYSTEM

- Two roller supports and five sliding supports
- Passive hammer for acoustic vibration
- Load cell system to enable density calculation
- Reference item for daily calibration

LENGTH & SIZE

- Read from PLC or optional laser-based measurement systems

MOISTURE CONTENT

- Several integration options. Prepared for the Finna Sensors inline and transverse serial protocols

CAPACITY

- 260 lugs/minute

LOCATION

- Indoors, optional length measuring system must be protected from sunlight



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