BOARD SCANNER · TRANSVERSE FLOW

ARAS-T BoardScan

Transverse board grading for high-capacity sorting lines



240 lugs/min
Capacity

4 faces
Single-pass scanning

200 mm
Max. thickness

600 mm
Max. width

ARAS-T BoardScan grades boards transversely on a lugged chain at up to **240 lugs/min**, matching the pace of modern sorting and trimming lines. Combining 3D laser triangulation, high-resolution colour imaging and tracheid scatter analysis, it captures all four faces in a single pass and detects grain deviation and hidden knots that cameras alone cannot see. Every board is sorted in real time for its highest market value — green, dry or planed.

SPECIFICATIONS

Key Specifications

Scanner type	Transverse board scanner; boards travel crosswise on a lugged chain
Capacity	Up to 240 lugs/min
Board thickness	Up to 200 mm (8 in)
Board width	Up to 600 mm (24 in)
Scanning	True 4-face scanning in a single pass; no mechanical board turning
Lumber stages	Green, dry or planed lumber
Mechanical design	Compact frame for retrofits into existing lines (390 mm shorter)
Model	Aras-T-SM60 · 3D laser triangulation, colour imaging and tracheid scatter included

SENSOR TECHNOLOGY

Sees what cameras cannot

3D laser triangulation
Captures high-resolution surface geometry of all four board faces in a single pass.

Colour imaging
High-resolution cameras detect surface defects, discoloration and grading-relevant features.

Tracheid scatter analysis
Laser light scatter reveals grain-angle deviation and hidden knots that standard cameras miss.

WoodScan AI
AI models classify every defect and assign the grade in real time.

MEASUREMENT

Measured Parameters

Geometry	Length · Width and thickness (min., max., avg.) · Volume · 3D shape · Area
Surface quality	Defects, discoloration and grading-relevant features via colour imaging
Grain structure	Grain angle and hidden knots via tracheid scatter analysis

APPLICATIONS

Where it is used

Trimmer optimization
Defect-based trimming decisions for maximum value recovery.

Green sorting line
Automatic grading on the green lumber sorter.

Dry sorting line
Automatic grading on the dry lumber sorter.

Grade sorting
Real-time bin decisions sent directly to sorter PLCs.

TRACEABILITY

WoodScan Trace

Log-to-board matching	Every graded board is linked to its source log and its position within the log, completing the mill-wide traceability chain
Reporting	Verifiable data for yield analysis, quality claims and chain-of-custody reporting

POSITION IN THE MILL

ARAS-T in secondary breakdown

01 Logyard
- TUNA LogScan
- WoodScan
- Optisoft

→

02 Primary Breakdown
- TUNA LogScan
- ALTAY LogScan
- Optisoft

→

03 Secondary Breakdown
- ARAS-L BoardScan
- **ARAS-T BoardScan**
- WoodScan
- Optisoft



Example of board flow on a secondary breakdown line.

INTEGRATION

Integration and Connectivity

Protocols	PROFINET · Ethernet · OPC-UA
Software	Optisoft optimization platform · WoodScan · WoodERP
Systems	Trimmer and sorter PLCs, sorting line automation, third-party plant systems

The right ARAS-T configuration for your line

Contact our team for a site survey, layout proposal or a live demo.

Request a Demo

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Specifications are subject to change without notice. Actual performance depends on line configuration, material dimensions and operating conditions. Images are for illustration.