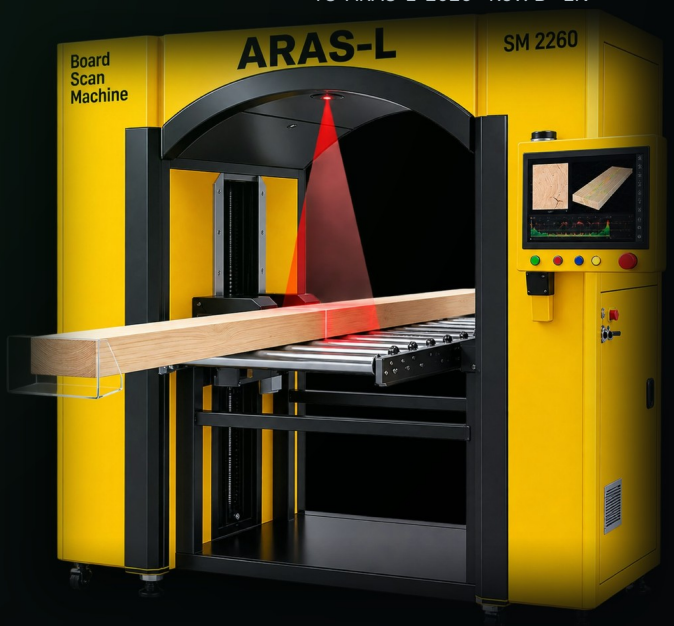



BOARD SCANNER · LONGITUDINAL FLOW

# ARAS-L BoardScan

Longitudinal board grading at full line speed

| 120 m/min | 4 faces | 200 mm | 600 mm |
|---|---|---|---|
| Line speed | Single-pass scanning | Max. thickness | Max. width |

ARAS-L BoardScan grades boards as they travel lengthwise along the line at speeds **up to 120 m/min** — no lugged chain required. 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** | Longitudinal board scanner; boards travel lengthwise in continuous line flow |
| **Line speed** | Up to 120 m/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-L-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

### Edger optimization
Defect-based edging decisions for maximum value recovery.

### Planer mill grading
Automatic final grading at planer line speeds.

### Green and dry lumber lines
Flexible integration at any longitudinal flow point in the production line.

### Grade sorting
Real-time sorting decisions sent directly to line 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-L 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** | Sorter PLCs, edger and planer line automation, third-party plant systems |

### The right ARAS-L 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.