

LOG SCANNER · PRIMARY BREAKDOWN

ALTAY LogScan

360° log scanning and cutting optimization before the first cut

360°	650 mm	< 200 ms	10,000+
Scan coverage	Max. log diameter	Decision time	Patterns / log

ALTAY LogScan captures a complete 360° model of every log where it sits — on the carriage, at the headrig, on the end dogger or along the infeed. 3D laser triangulation sensors surrounding the log reconstruct its full geometry, including sweep, taper and ovality. The optimization engine evaluates **10,000+ cutting patterns per log in under 200 ms** and drives the setworks directly over PROFINET, so every log is positioned optimally before the first cut.

SPECIFICATIONS

Key Specifications

Scanner type	Transverse 360° log scanner; measures logs in position (carriage, headrig, end dogger, infeed)
Scan coverage	360°; full log surface, no rotation or second pass required
Scan time	1 s/m
Max. log diameter	Up to 650 mm
Optimization decision	Total decision time < 200 ms; 10,000+ cutting patterns evaluated per log; the single best pattern for maximum value recovery is selected
Machine interface	PROFINET; direct PLC setworks control with millimetre-level positioning
Operation	Continuous 24/7 industrial duty; real-time compensation for bark, debris and machine deviation

SENSOR TECHNOLOGY

The whole log, in one capture

3D laser triangulation
A multi-sensor array surrounds the log for reliable measurement on dark, wet or bark-covered surfaces.

360° multi-sensor array
Captures complete log geometry from every angle simultaneously.

3D reconstruction
Builds a real-time surface mesh with compensation for bark, debris and environmental effects.

WoodScan AI
Machine-learning models for log analysis and defect detection.

MEASUREMENT

Measured Parameters

Geometry	Length · Diameter (min., max., avg.) · Volume (bark-compensated) · Sweep · Taper · Ovality
Optimization inputs	Log geometry, product prices, demand priorities and machine constraints

INSTALLATION

Mounting Positions

Headrig carriage
Carriage-mounted scanning for primary breakdown.

End dogger
Log alignment optimization at end-dogging stations.

Close-coupled infeed
Compact installations where line length is limited.

Conveyor
In-line scanning on transverse or longitudinal conveyors.

TRACEABILITY

WoodScan Trace

Digital log ID	Geometry, grade and assigned cutting plan travel with every log through the mill
Log-to-board matching	Every board is linked to its source log and its position within the log for yield analysis, quality claims and chain-of-custody reporting

POSITION IN THE MILL

ALTAY in primary breakdown

01 Logyard

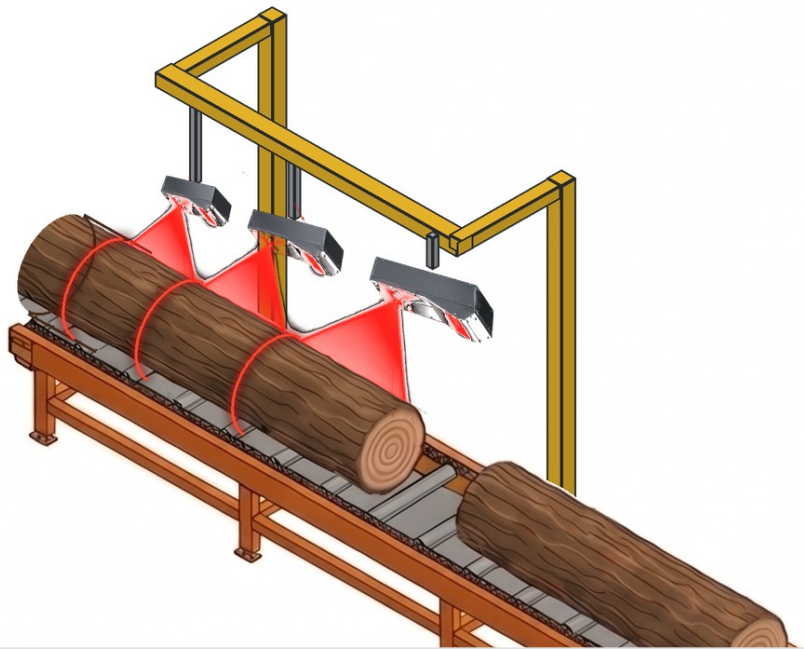
- TUNA LogScan
- WoodScan
- Optisoft

02 Primary Breakdown

- TUNA LogScan
- **ALTAY LogScan**
- Optisoft

03 Secondary Breakdown

- ARAS-L BoardScan
- ARAS-T BoardScan
- WoodScan
- Optisoft



Example ALTAY LogScan installation on a primary breakdown infeed conveyor: overhead scanning heads and laser profile lines.

INTEGRATION

Integration and Connectivity

Protocols	PROFINET · Ethernet · OPC-UA
Software	Optisoft optimization platform · WoodScan · WoodERP
Systems	PLC setworks, sawmill automation and third-party plant systems

The right ALTAY configuration for your sawline

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.