OEM VISION

SOFTWARE DATASHEET
SW-OPTISOFT-2026 · Rev. A · EN

SOFTWARE · CUTTING OPTIMIZATION

Optisoft Optimizer

From log insight to optimal cutting



15%+
Yield gain

< 200 ms
Decision time

Real-time
Optimization

Modular
Workflow

Optisoft cutting optimization maximizes the value of every log by determining the most efficient cutting strategy before sawing begins. Analyzing the log's geometry, dimensions and quality characteristics, it calculates the cutting pattern that delivers **the highest possible board yield**. Advanced algorithms evaluate multiple cutting scenarios in real time and adapt to different product requirements, keeping cutting decisions aligned with production targets and market demand.

KEY BENEFITS

Five outcomes that move every shift forward

Maximize yield
Get the most value from every log.

Minimize waste
Reduce material loss and improve efficiency.

Boost productivity
Streamline cutting operations and save time.

Ensure quality
Consistent board dimensions and standards.

Data-driven decisions
Optimize production with real-time insight.

Measurement + optimization
Precise measurement plus smart optimization: more boards, fewer wasted minutes.

HOW IT WORKS

From scan data to cutting decision

01
Data
The log or board model arrives in real time from TUNA, ALTAY or ARAS scanners.

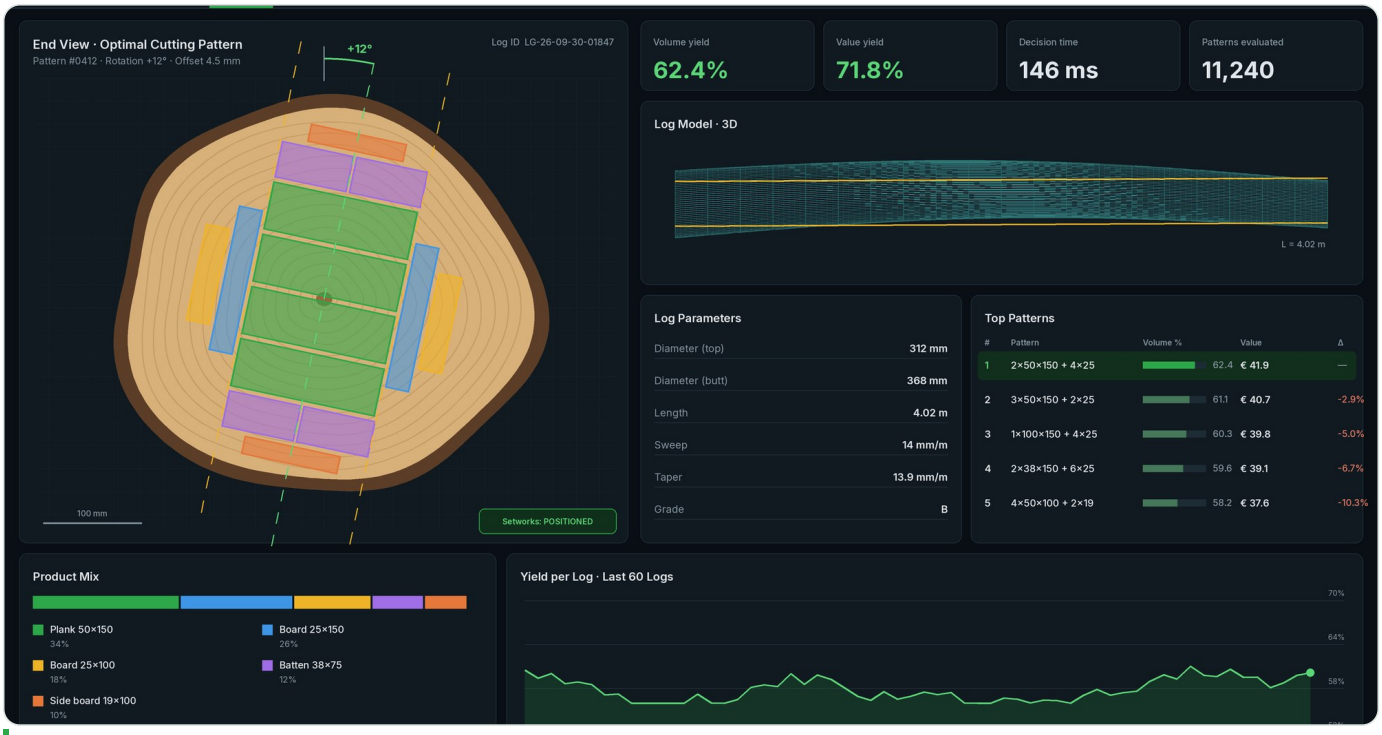
02
Scenarios
Thousands of cutting patterns and rotation angles are generated.

03
Evaluation
Each pattern is scored against product prices, demand priorities and machine constraints.

04
Execution
The best pattern and setworks positions are sent to the machine.

INTERFACE

Powerful underneath, simple on top



Optisoft operator interface (representative): optimal cutting pattern and rotation in end view, 3D log model, yield indicators and top-pattern ranking.

Optisoft delivers intelligent cutting optimization through an intuitive, modular interface that adapts fully to your workflow — for faster, smarter and more efficient log processing.

INPUTS

What drives the optimization

Log / board model	3D geometry: diameter, length, sweep, taper, ovality; board dimensions and defect map
Quality data	Surface and internal quality, defect classes (WoodScan AI)
Product prices	Per-product unit values for value-driven decisions
Demand priorities	Product weighting by orders and production targets

Machine constraints	Saw configuration, kerf, setworks limits

WHERE IT RUNS

Optisoft across the line

Stage	Data source	Optisoft decision
Logyard	TUNA LogScan	Value-based bin and log-to-product allocation
Primary breakdown	TUNA · ALTAY LogScan	Cutting pattern, rotation angle and setworks positions
Secondary breakdown	ARAS-L · ARAS-T BoardScan	Trim and rip decisions balanced against the product mix

TECHNICAL SUMMARY

Key figures

Decision time	< 200 ms
Patterns evaluated	10,000+ per log
Outputs	Cutting pattern · Rotation angle · Setworks positions · Bin · Grade
Machine interface	PROFINET · Ethernet · OPC-UA
Integration	WoodScan · WoodERP · OEM Vision scanners
Architecture	Modular: sorting, grading and cutting optimization modules

Optimize every cut with Optisoft

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.