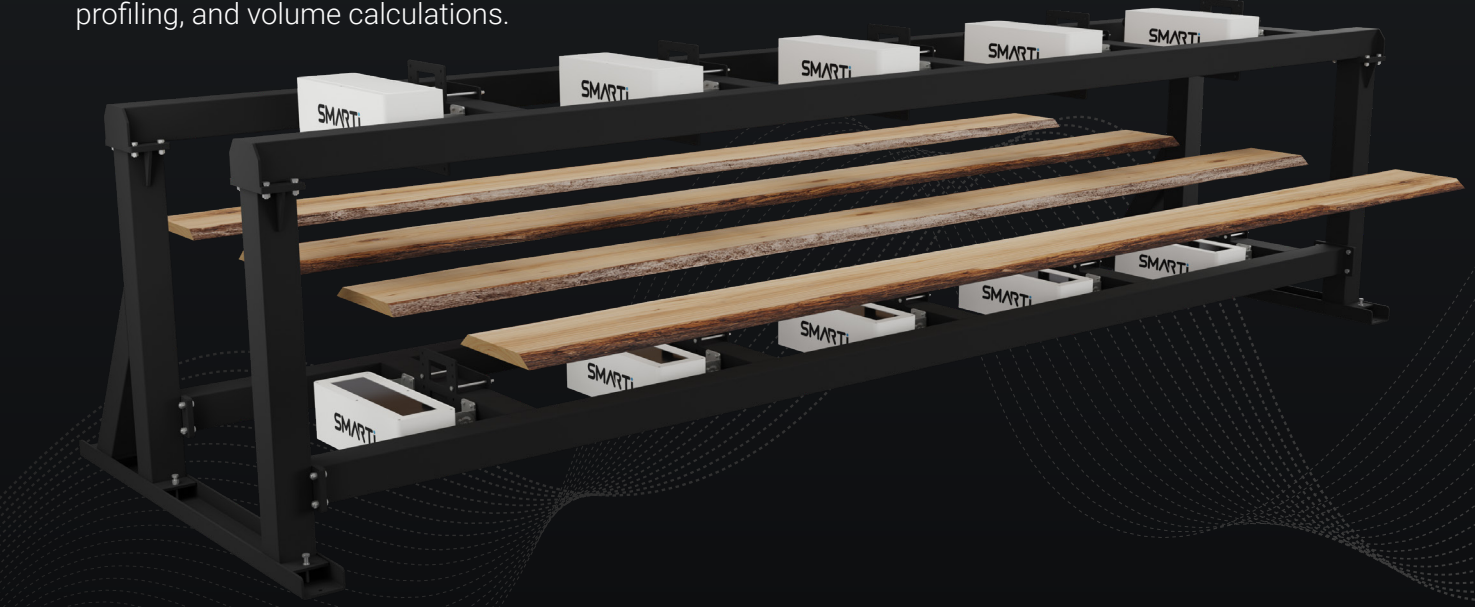


SMARTi

iWane

Transversal Wane Scanning for Edger Optimization

iWane is an advanced scanning system designed for accurate wane detection and optimization of unedged boards before the edging process. Combining high-resolution imaging with advanced AI-powered machine vision, the system precisely measures board geometry, dimensions, and wane characteristics to determine the optimal edging solution for maximum value recovery. Every board is analyzed individually, enabling cutting decisions that maximize yield while minimizing waste. In addition, the system provides highly accurate dimensional measurements, board width profiling, and volume calculations.



Reliable Wane Detection

The system utilizes cutting-edge 3D laser triangulation technology for highly accurate dimensional measurements, board profiling and wane detection. Advanced AI and proprietary machine vision algorithms ensure reliable operations.

- » AI powered detection
- » Speed up to 250 boards/min
- » <0.1 mm scanning accuracy
- » Variety of possible board dimensions

Specifications

Use Cases

- » Edging optimization
- » Board sorting and trimming
- » Integration with SMARTI scanners

Detection

- » Measurement

Length
Width
Thickness
Volume

- » Defect Detection

Wane
Lack of Material
Cracks

Technology

- » AI technology
- » 3D laser triangulation

Capabilities

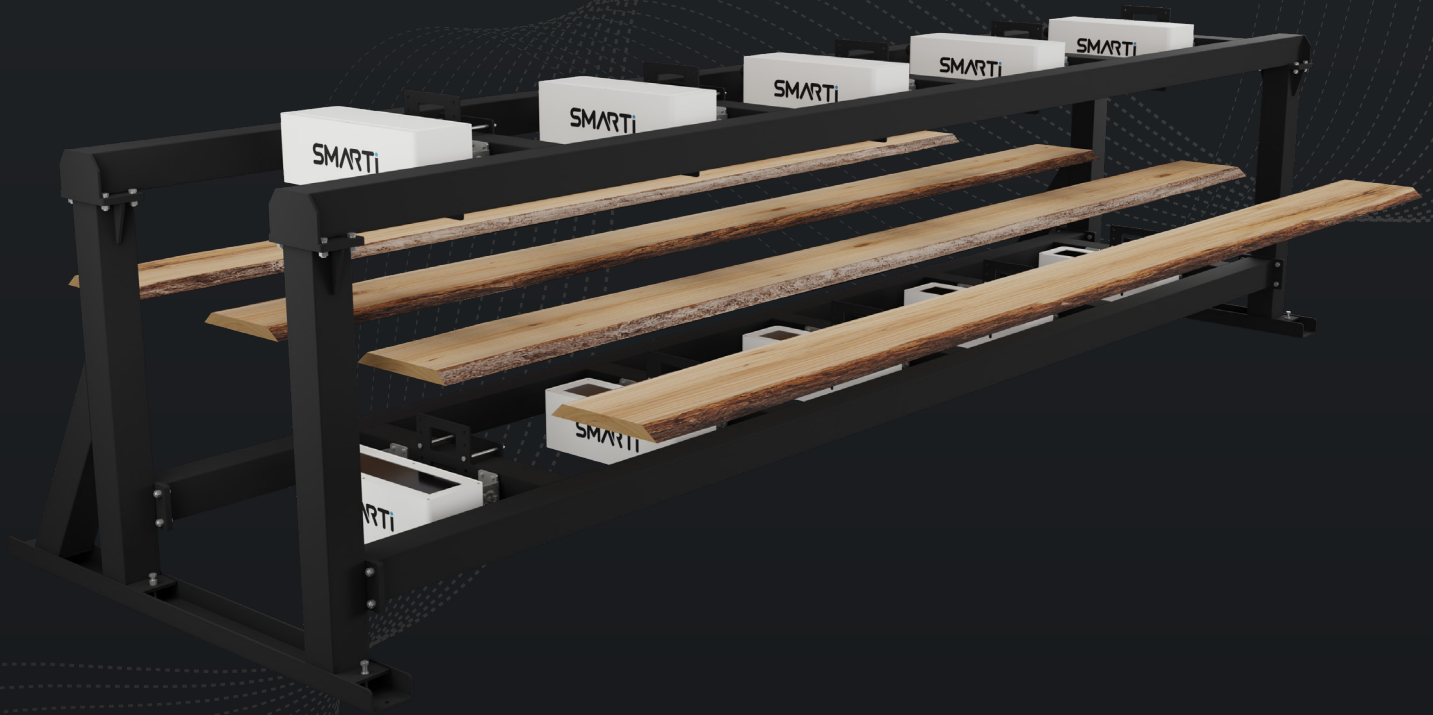
- » <0.1 mm scanning accuracy
- » Optimizing and sorting
- » Speed up to 250 boards/min
- » Variety of possible board dimensions
- » Machinery control and communication

Software

- » User friendly UI
- » Real-time display of boards
- » Custom rules for edging, trimming and sorting
- » Database of scanned boards
- » AI training tool
- » Statistics
- » Simulations
- » User rights for protection

Smarter Edging Optimization

iWane transforms accurate measurement data into intelligent production decisions. By analyzing the complete board profile, the system determines the optimal edging solution for every piece, maximizing material recovery while reducing waste. The measured data can also be used for automated sorting, trimming and other downstream optimization processes, improving efficiency throughout the production line.



Empowering Wood Industry

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