

iFace

Ring Orientation and Pith Position

iFace is an advanced color scanning system for board face scanning. Faces of boards are scanned and the correct board orientation is determined. Annual ring pattern is recognized and pith position identified. AI technology and many other proprietary machine vision algorithms provide for accurate detection and measurements. The machine communicates with manufacturing mechanization to flip the boards when required. Rules for flipping the boards can be set by operators or pre-set to work in accordance with standards. Scanner is usually used in combination with iCurve scanner.



AI for Positioning and Detection

Color scanning combined with AI technology and machine vision algorithms ensure accurate ring orientation detection. Based on annual ring identification, pith position is predicted and boards are flipped when required.



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

Specifications

Use Cases

- » Flipping optimization
- » Integration with SMARTI scanners

Detection

- » Measurement

Width
Thickness

- » Annual ring orientation
- » Pith detection

Technology

- » AI technology
- » Color

Software

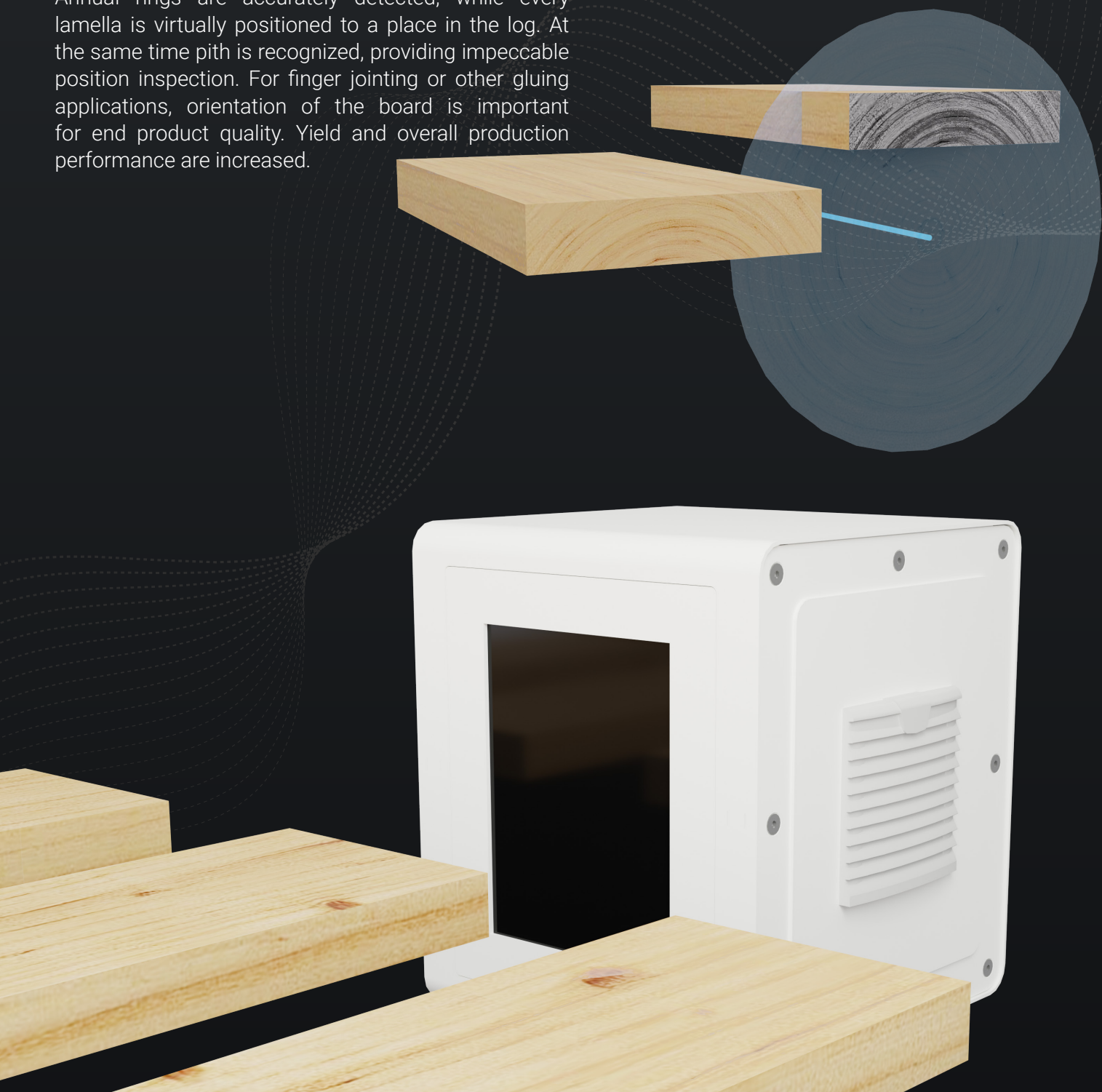
- » User friendly UI
- » Real-time display of boards
- » Custom rules for sorting and board flipping
- » Database of scanned boards
- » AI training tool
- » Statistics
- » Simulations
- » User rights for protection

Capabilities

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

Face Scanning

Each board face is scanned for flipping purposes. Annual rings are accurately detected, while every lamella is virtually positioned to a place in the log. At the same time pith is recognized, providing impeccable position inspection. For finger jointing or other gluing applications, orientation of the board is important for end product quality. Yield and overall production performance are increased.



Empowering Wood Industry

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