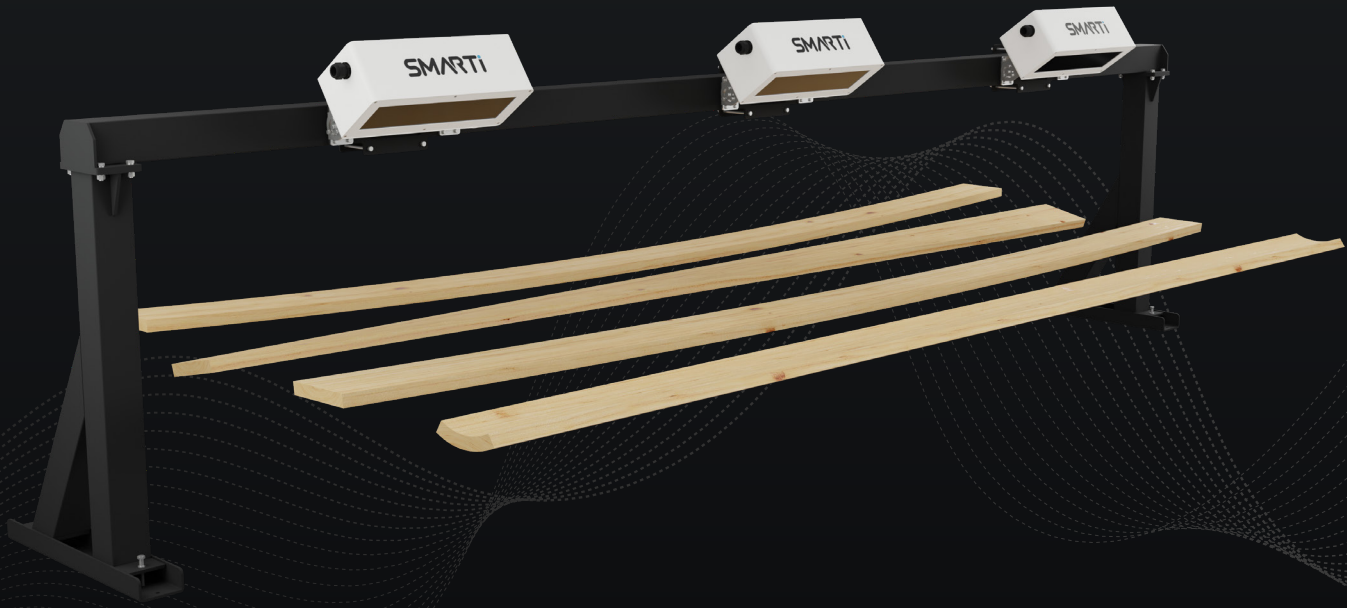


iCurve

Curvature Detection and Measurement

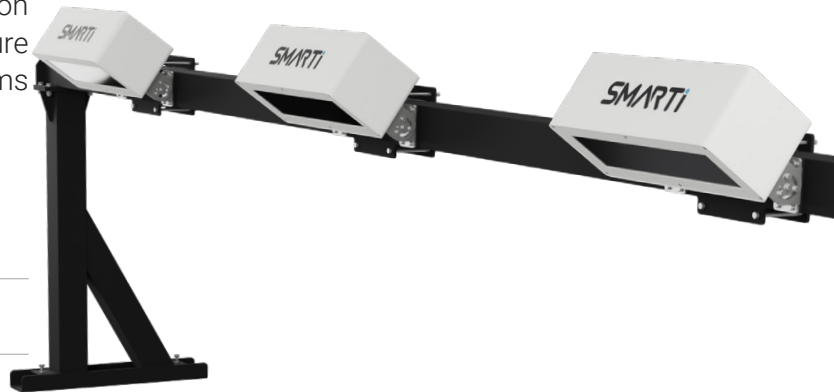
iCurve is a scanning system for curvature detection and measuring. Using advanced 3D scanning technology, bow, twist and crook of the boards are measured with utmost accuracy. Cup detection and measurement is always included as well. Board dimensions are accurately presented along with volume calculations. With the use of AI technology and many proprietary machine vision algorithms, surface defects can also be detected. For the best performance, the system is usually used in combination with iFace scanner.



Reliable Curve Detection and Measurement

System utilizes cutting-edge 3D laser triangulation principles for accurate measurements and curvature detection. AI technology and machine vision algorithms further contribute to detection.

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



Specifications

Use Cases

- » Board sorting and line control
- » Flipping optimization
- » Rejecting boards with unaccepted curvature
- » Integration with SMARTI scanners

Detection

- » Measurement
 - Length
 - Width
 - Thickness
 - Volume
- » Curvature
 - Bow
 - Crook
 - Twist
 - Cup

Technology

- » AI technology
- » 3D laser triangulation

Capabilities

- » <0.1 mm scanning accuracy
- » Sorting and ejecting
- » 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 sorting and board flipping
- » Database of scanned boards
- » AI training tool
- » Statistics
- » Simulations
- » User rights for protection

Bow, Crook, Twist and Cup

Software for dimension/shape error detection is included as standard. Every board is measured while bow, crook, twist and cup are detected. Boards with curvatures larger than allowed are rejected from the production process. Rules for curvatures allowed are set by operators or preset to comply with standards. Connection with other SMARTI scanners and control of the production machinery is always included as standard.



Empowering Wood Industry

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