

## Wood inspection/Optimization

### SoftVision® Wood

#### Efficient and exact inspection with cutting optimization!






**SoftVision®** Wood is the inline vision system inspecting products for the wooden industry. The system optimize cutting of parts such as logs and boards to maximize usage of material.

Defects such as wane, marrow, sapwood, decay, knots and cracks are detected by the system, combining color inspection and 3D measuring.

Calculates the pith position by inspecting ends of passing lumber.

The system controls ambient equipment such as a saws, filling robots and sorters while measuring profile and dimension with an accuracy of 0,1 millimetres.

Contact us or visit our website [www.maxagv.com](http://www.maxagv.com) to find more information about our systems!

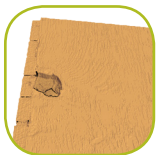
-  2D Inspection
-  3D Inspection
-  Inline
-  Cutting optimization
-  Reports & Statistics

# SoftVision® Wood is the ultimate software library for wood inspection.

SoftVision® Wood uses multiple inspection techniques. Laser measurement to measure shape, thickness, wane, knot holes and cracks. Color cameras to detect knots and decay in addition with greyscale cameras for detecting pith position. The systems are robust and made for rough environments!



## SoftVision® Wood systems:



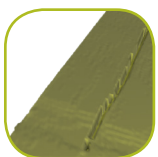
### Filling robot

Position and volume of knot holes and cracks in floor boards are detected. Methods, driveways and volumes are transferred to a robot that fills the defects.



### Sawmill

Value based cutting optimization of blocks and boards for lengthwise sawing of multiple products. Thickness measurement with an accuracy of 1/10 mm.



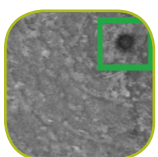
### Cutting

Measuring wane and length with detection of knot holes and cracks in pieces of lumber. The system optimizes valuable pieces and stacks them.



### Color inspection

Color deviations in a piece of wood such as knots, cracks, decay and sapwood are detected. The system grades knots as rotten or not.



### Pith positioning

The pith position in a piece of lumber is detected by using end inspection. The result is used for grading by the sorter.



Kryptongatan 5B, SE-431 53 Mölndal, Sweden  
Phone: +46 (0)31 797 58 00 · info@maxagv.com · www.maxagv.com

“SoftVision® Wood, based on modules, adapted to meet inspection requirements, sorting and optimization.”

### SPECIFICATIONS

#### SYSTEM: SoftVision® Wood

Wood inspection from raw material to end product. Measuring and verification, detection of knots, cracks and decay, pith positioning, wane and thickness measurement. **TECHNOLOGY:** The system uses multiple techniques, both laser triangulation and analysis of colored and greyscale images.

#### RESOLUTION: Fitted to specific application.

Board optimization with 1 measure/mm, 0,1 mm height, 0,2 mm width @ 2 m/s.

#### HARDWARE: Pc Intel Core i7 processor, Windows 11

**FORMAT:** From millimetre thin products as veneer up to several meter long boards and logs.

#### REPORTS & STATISTICS: Fitted to specific customer.

The reports are designed to show measured and optimized volumes both as figures and as curves. Shift statistics, change lists and trendgraph analysis of specific measurement are different examples of reports available in the system.

## Optimizing yield!

SoftVision® Wood optimizes the usage of material.

The system uses a freely selectable number of pre-defined formats and products all with their own properties. These criterias in mind, in combination with measured shape and detected defects, SoftVision® Wood calculates the most valuable combination of products.

The optimization result transferred to the sawing equipment can be used for both lengthwise sawing and cutting, including sorting.

Optimizing algorithms run parallel with measuring to maintain capacity!