Veneer Visual Analyzer R7 - Patching

OPTIMIZE THE PATCHING PROCESS TO MAXIMIZE PRODUCTIVITY

Patch your veneer sheets to the desired quality grade

Accurate machine vision detects the dimensions and different types of defects on the veneer sheet. Veneer Visual Analyzer R7 (formerly known as Mecano VDA) has multiple features to optimize veneer patching. Intelligent patching algorithms optimize the number of patches and the patching route to maximize the patching line capacity.

The analyzer allows you to control the number of patches, for example, pcs/m², which is a limiting factor in some quality grades. The R7 series visual analyzer is specially designed for patching face veneer to maximize the value of your veneer sheets. It can be also used for grading face veneer sheets in cases when there are not enough bins for different grades in the dry veneer grading line.

Veneer Visual Analyzer R7 offers different detection technologies to match your needs. You can select the imaging method of the three available models: color, micro, or surface.

Key benefits

MAXIMIZE FACE VENEER RECOVERY

IMPROVE VENEER QUALITY

MAXIMIZE THE PATCHING LINE CAPACITY AND EFFICIENCY

Technical specifications

	Surface	Micro	Color
Veneer thickness (mm)	0.5 – 4.2	0.5 – 4.2	0.5 – 4.2
Available sizes (ft)	5 - 10	5 - 10	5 - 10
Grading accuracy	>95%	>95%	>95%
Color defects (e.g. Knot, wane)	●	●	●
Micro defects (e.g. Crack, pin hole)	●	●	○
Surface defects (e.g. Roughness, overlap)	●	○	○

Analyzers for Veneer Patching

Produce high-quality veneer with intelligent analyzers

Using analyzers at the patching line is an effective way to maximize face-veneer recovery and produce consistent, high-quality sheets — more than four times faster than manual patching. By accurately identifying defects and guiding the patching process, analyzers help mills improve veneer quality while increasing profit.

Visual analyzers detect patchable defects and the geometrical features of each sheet, providing a wide range of parameters to control patch placement. At the same time, they grade the sheets to ensure every piece meets the required quality standards.

However, conventional analyzers often struggle to detect all defects that should be patched, reducing the value of the finished veneer. They typically require continuous fine-tuning to compensate for detection inaccuracies, leading to excessive patching. This not only downgrades veneer unnecessarily but also increases costs and reduces patching-line efficiency.

AI eliminates these challenges. With superior defect-recognition accuracy, AI-enhanced analyzers reliably identify even subtle or low-contrast defects that traditional systems miss. This reduces unnecessary patching, protects veneer value, and improves overall line efficiency, ensuring your patching operations deliver the highest possible return.

See how AI-powered patching boosts quality, accuracy, and profitability in face-veneer production.