Veneer Visual Analyzer R7 - Composing

MAXIMIZE THE YIELD AND THE QUALITY OF END-PRODUCT

Perfect solution for high-quality veneer composing

Veneer Visual Analyzer R7 - Composing (formerly known as Mecano VCO Composing) is suitable for core veneer, green veneer, and face veneer composing. The analyzer is equipped with a high-resolution color camera and intelligent lights for optimized defect detection. Advanced software includes multiple features for optimizing recovery and quality. Almost an unlimited number of different recipes can be saved for different products. Those can be easily adjusted through the touch screen user-interface. The analyzer maximizes the recovery and quality and provides high flexibility in production in all composing needs.

Veneer Visual Analyzer R7 - Composing is fully compatible with Raute's digital tools. These tools provide comprehensive data from essential elements of your veneer production, improving your overall production efficiency as also composing efficiency. Based on the data it is also easy to adjust the clipping rules on the peeling line for optimizing the quality of the sheets that will be composed after drying.

Key benefits

MAXIMIZE VENEER RECOVERY

MAXIMIZE PRODUCTION EFFICIENCY

MAXIMIZE VENEER QUALITY

References

Elevating plywood precision and productivity with AI-driven veneer composing

Koskisen and Raute have been in close collaboration for many years and Koskisen sees Raute as their strategic technology companion.

Read more

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 Composing

Analyzers for all kinds of composing needs

Composing is an effective way to improve veneer production and maximize raw material utilization. At the composing line, defective areas are cut away, and high-quality sections are combined to form full-size sheets, improving both yield and overall veneer quality. Defect clipping is driven by visual analysis, making accurate detection essential for consistent results.

Raute offers analyzer solutions for every composing application, whether you are producing face veneer, core veneer, green veneer, or any combination of them. Our analyzers enhance the composing process by ensuring that each sheet is evaluated and clipped based on reliable, data-driven criteria.

AI takes this capability further. Traditional composing lines require operators to mark defects manually with fluorescent chalk or rip corners to ensure they are noticed. This manual work is slow, imprecise, and leads to unnecessary clipping, wasting valuable raw material and limiting line capacity. Without accurate detection, mills often remove more veneer than needed.

AI analyzers eliminate this challenge by automatically recognizing low-contrast and hard-to-spot defects, without any operator marking. This leads to significantly improved yield, higher capacity, and more consistent quality across both face and core composing lines.

Explore how AI-enhanced composing improves yield, accuracy, and efficiency across your veneer production.