



Veneer Moisture Analyzer R7 - Drying

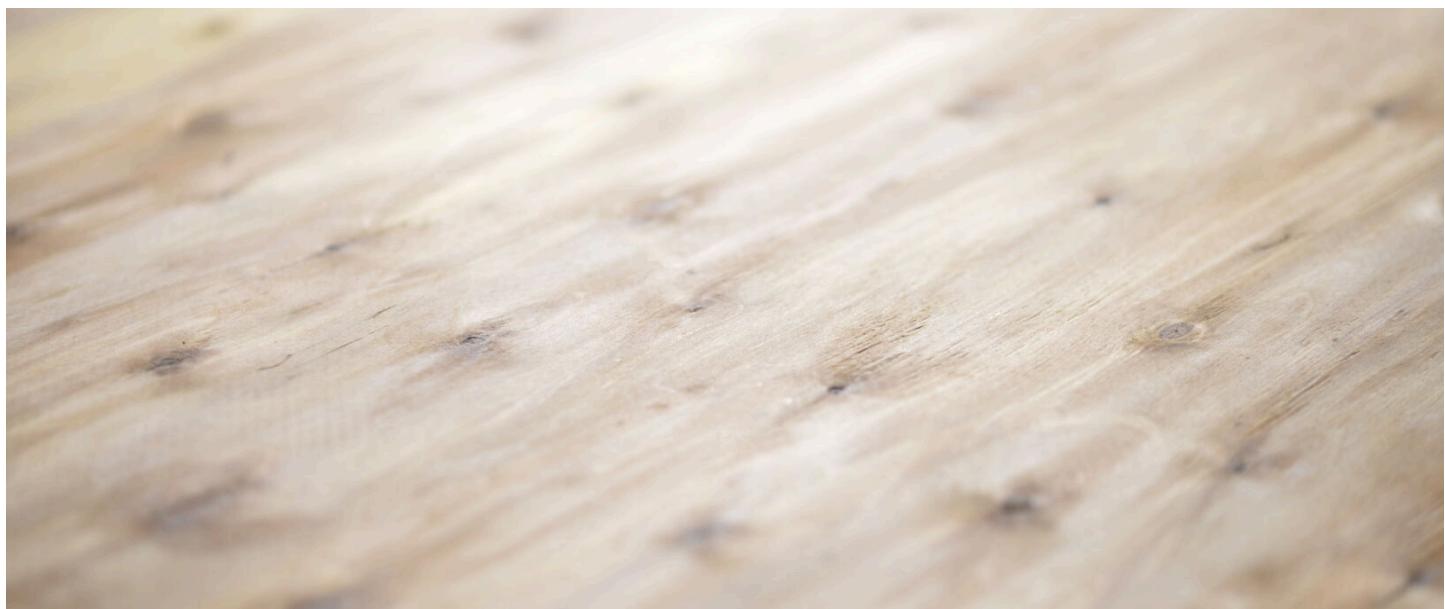
**THE MOST ACCURATE MOISTURE
ANALYZER ON THE MARKET**



Get the full benefits of accurate moisture analysis

Veneer Moisture Analyzer R7 (formerly known as Mecano MVA) utilizes microwave technology to measure moisture through the veneer sheet, not just on the surface of the sheet. The measurement accuracy of the analyzer enables allowing higher moisture contents for the dried veneer sheets because the need for margins is minimized. This improves dryer capacity and veneer quality without causing risks for panel blow outs at the hot press.

As basic features, Veneer Moisture Analyzer R7 defines both peak and average moisture of the sheet. Furthermore, it offers advanced features for moisture analysis which allow you to define different moisture content for different areas of the sheet. This enables higher average moisture content for the dried veneer to improve veneer quality and drying capacity.



Key benefits



IMPROVE DRYING
CAPACITY



MINIMIZE OVER
DRYING



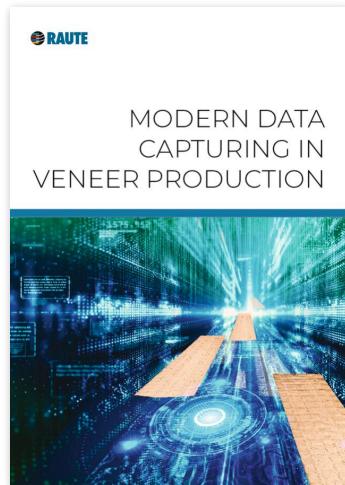
PRODUCE HIGHER-
QUALITY VENEER



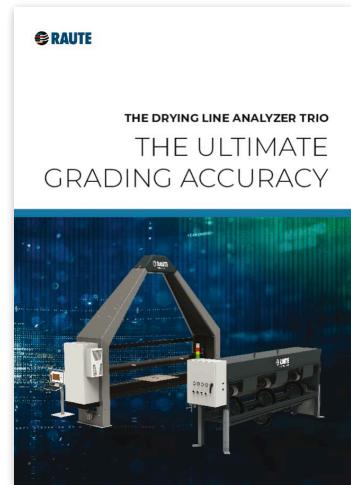
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Technical specifications

Veneer thickness (mm)	0.5 – 4.2
Available sizes (ft)	5 - 10
Moisture Range (mc)	0 – 40%
Sensors (pcs)	16 - 24
Maximum moisture accuracy (mc)	±0.5%

Analyzers for Veneer Drying

Grade the sheets accurately for the following process phases

At the veneer drying line, accurate grading is essential to keep material flowing efficiently toward the next process phases. The best way to secure consistent, unbiased decisions is to let intelligent analyzers perform the grading for you. In addition to classifying sheets, analyzers collect valuable process data that helps you optimize dryer performance, improve veneer quality, and boost overall profitability.

Modern analyzers grade sheets based on visual properties, moisture content, strength, and density. These capabilities can be delivered through individual systems or through integrated solutions that combine the features of two or even three analyzers into one compact unit, saving floor space, reducing investment costs, and most importantly, improving grading accuracy.

AI takes dry grading to a new level. Conventional vision systems often struggle to distinguish between sound knots, dark knots, loose knots, bark defects, and variations caused by heartwood or grain patterns. These limitations can lead to misgrading, unnecessary patching, and costly panel downgrading.

With AI-enhanced visual grading, these challenging distinctions can now be made reliably. At the drying line, AI accurately separates defects that need patching or composing from those that can be routed further downstream, such as to the panel repairing line. When combined with process simulation features, each veneer sheet can be directed to its most suitable next phase individually.

For example, face-quality sheets that require no patching can be identified directly at the dryer and sent straight to the lay-up line instead of the patching line, streamlining sheet flow and improving end-product quality.

Raute's AI analyzers can be retrofitted to any dry grading line. AI-enabled visual detection can also be combined with moisture grading, strength analysis, and surface property assessment such as waviness and roughness, providing you with better decision-making tools to maximize raw-material value across your mill.

Discover how AI-enhanced dry veneer grading can improve quality, accuracy, and flow in your production.



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Making Wood Matter