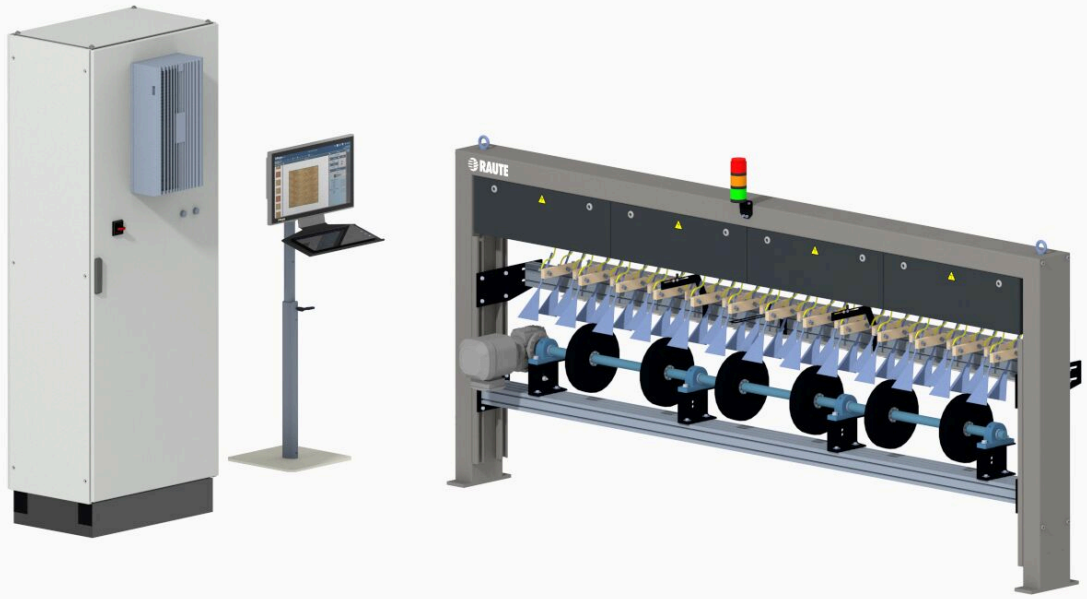
Veneer Moisture Analyzer R5 - Drying

INCREASE DRYING CAPACITY WITH ACCURATE MOISTURE MEASURING



Easy and fast moisture sorting of veneer

Veneer Moisture Analyzer R5 (formerly known as Mecano DMA-DC) provides accurate analysis based on the traditional contact brush measuring. With the R5 analyzer, you can detect the high moisture veneers and avoid passing them directly to lay-up. Based on the analyzer measurements, it´s also possible to optimize the dryer speed to avoid over-drying and improve dryer productivity and veneer quality.

Veneer Moisture Analyzer R5 is equipped with easy to use touch screen user interface for setting up moisture recipes. The analyzer is designed to be installed on the grading line, and it can be integrated into Veneer Visual Analyzer R7.

Key benefits

IMPROVE DRYING CAPACITY

MINIMIZE OVER DRYING

IMPROVE VENEER QUALITY

INCREASE PROFITS

Technical specifications

Veneer thickness (mm)	0.5 – 4.2
Available sizes (ft)	5 - 10
Moisture Range (mc)	5% – 20%
Moisture Accuracy (mc)	±3%
Sensors (pcs)	8 - 16

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.