

# Veneer Visual Analyzer R5 - Drying

## **EASY AND FAST SOLUTION FOR DRY VENEER GRADING**



## Ensures accurate and consistent veneer visual grading

If your goal is to grade your dry veneer easily and quickly, Veneer Visual Analyzer R5 offers the right solution for you. The analyzer allows you to install it in a small space in your production line, highly rationalizing your space utilization. It is available as different widths for different veneer dimensions and is easily connected to the stacker control system.

Veneer Visual Analyzer R5 offers you a choice between dark and open imaging. The vacuum camera conveyor ensures high-quality imaging and accurate size measurements for the defects and veneer. The grading of veneers is based on the dimensions, open defects, and dark color defects. Grading recipes are easily adjusted through the touch screen user interface. The analyzer is the best choice for random and core veneer grading as well as for lower-capacity production lines.



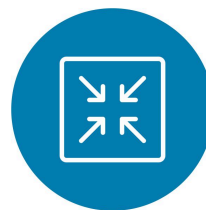
## Key benefits



MAXIMIZE VENEER  
QUALITY



EASY AND FAST  
INSTALLATION AND  
START-UP



SMALL SPACE  
REQUIREMENT



# Technical specifications

|  | Dark      | Open      |
|--|-----------|-----------|
| Veneer thickness (mm)                    | 0.5 – 4.2 | 0.5 – 4.2 |
| Available sizes (ft)                     | 4 - 8     | 4 - 8     |
| Grading accuracy                         | >95%      | >95%      |
| Open defects (e.g. Hole, Fishtail)       | ●         | ●         |
| Dark defects (e.g. Dark wane, Dark knot) | ●         | ●         |



# 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