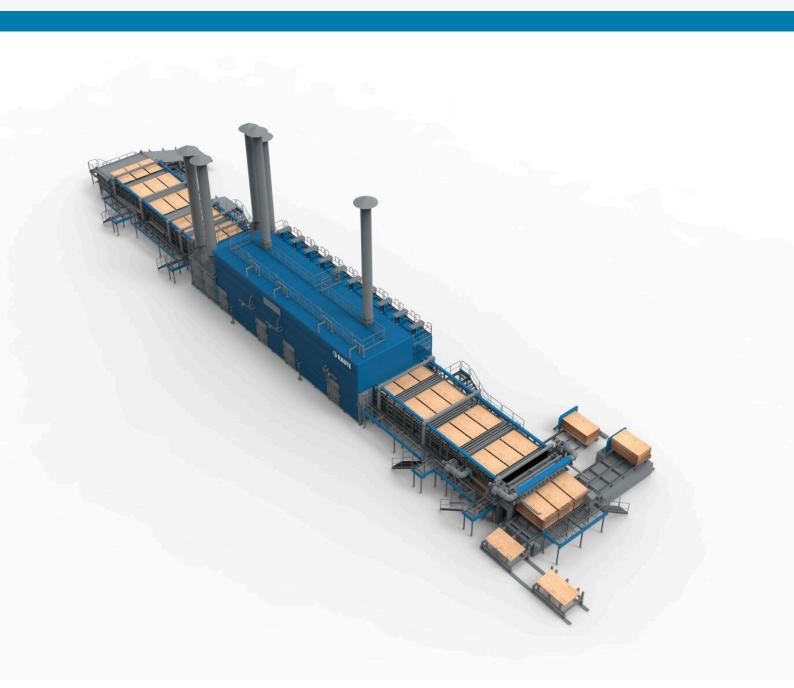


Veneer Drying Line R3

STANDARD FOUNDATION FOR INDUSTRIAL VENEER DRYING



Veneer Drying Line R3 – The easy to install and operate standard

The Veneer Drying Line R3 is your choice when you are starting the industrial veneer drying and you don't need high automation. The line is capable to handle hardwood and softwood when producing veneer sheets. It is easily installed just on a flat floor on rails giving significant savings since no special foundations are needed.

Industrial veneer drying means 80% less operators for the job yet more efficient production. The dryer handles full-sized veneer sheets giving 15% more yield compared to natural drying processes. The line's capacity is 16 veneer sheets per minute with a short drying time. The Veneer Drying Line R3 dries the sheets always to the optimal 5-8% moisture level.

Standard grayscale veneer visual and moisture analyzers can be installed on the line.

Also, the R3 series dryer has 6 decks giving an advantage of needing 30% less floor space than a traditional 4-deck dryer. Its completely insulated shell not only saves in heating energy but gives even drying from the top to bottom decks.

Key benefits



OPTIMAL DRYING SAVES 20% IN ENERGY



SAVE 30% IN FLOOR AREA COMPARED TO TRADITIONAL 4-DECK DRYER



SAVE 80% IN LABOR COMPARED TO NATURAL VENEER DRYING



DRYING FULL-SIZE SHEETS IMPROVES RECOVERY BY 15%



References



Guangxi Guoxu Spring Woodbased Panel Co., Ltd.

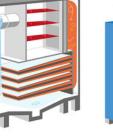
Raute has delivered modern, high technology veneer production lines with high-quality analyzers to Guoxu Spring Woodbased Panel Co., Ltd in South China.

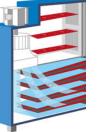


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VENEER DRYING – WHY TO DO IT AND HOW TO DO IT?





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VENEER DRYING PROCESS AND BENEFITS This paper discusses the fundamental factors influencing the quality of veneer, the energy needed to dry veneer, and the most optimal conditions for drying.



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Technical specifications

Operators on the Line	4
Heat Energy Consumption (KWh/m3 Dry Veneer)	406
Drying Time (min)*	3.20
Dry veneer capacity* up to (m3/h)	9,5
Installed power (kW)	300

Veneer drying

The smart veneer drying solutions for every scale production

Veneer drying is one of the most crucial phases of veneer production. The main objective of the drying process is to produce high-quality optimally dried veneer sheets with the highest possible efficiency. This is carried out by removing water from the sheet and decreasing moisture content to an optimized level by using hot and humid air inside a dryer.

By choosing industrial veneer drying, you improve veneer quality with uniform drying result. As a result, you get high-quality, even moisture content veneer sheets that are ready to be glued and processed further as LVL beams, plywood, panels, or other end-use products.

The successful veneer drying has many positive impacts on your production and veneer quality. With optimized veneer drying conditions, equipment, and process, you produce more high-quality veneer with less energy, raw material, and waste.

The most sophisticated drying solutions include grading. You can grade the dried veneer sheets to different veneer types for plywood or LVL production.

Raute offers three different veneer drying line series called R3, R5, and R7 from which the latter is the most automated line ever created to the veneer production industry. Our drying line solutions R5 and R7 always include the veneer sheet grading after the drying line.

Start your production or add capacity easily with our R3-Series. When you want capacity that can be upgraded effortlessly and a line that allows modernization through process-specific updates, R5-Series is your solution. Put automation and machine vision in full use with R7-Series and master your productivity with high speed.

