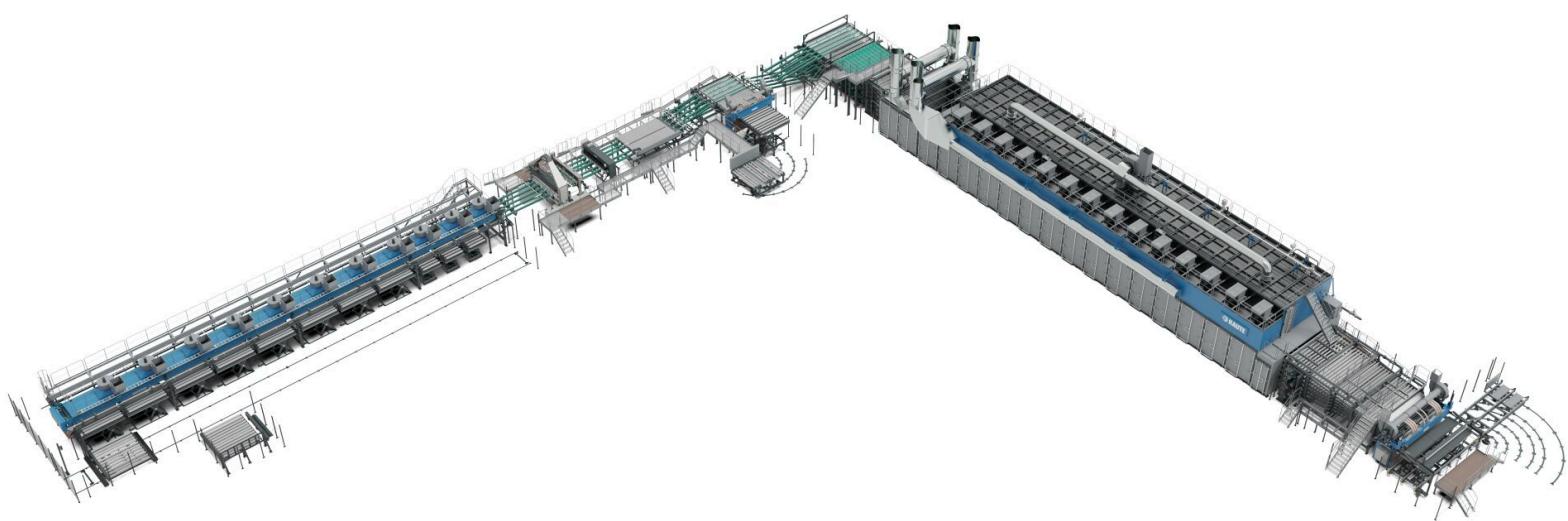




## Veneer Drying Line R7

**THE MOST EFFICIENT SOLUTION  
FOR INDUSTRIAL VENEER DRYING**



## Veneer Drying Line R7 – The ultimate choice

This is the most efficient and developed veneer drying line in the industry. Whether you need to take your production efficiency to the maximum level in automation, capacity, or production quality –this is your choice!

You can choose the drying line machinery and specifications from multiple options and everything can be fitted to your needs. It even comes with stainless-steel skin.

With the Veneer Drying Line R7, your drying time is minimized, and the total production capacity is up to 90 sheets per minute, which makes this line the all-around most efficient industrial veneer drying solution on the market. The single-point exhaust system produces zero fugitive emissions, which makes the R7 series line the most environmentally friendly line you can get.

The Veneer Drying Line R7 always includes analyzers for advanced grading and data capturing solution, MillsIGHTS.

## Key benefits

**-15%**

SAVE 15% IN ENERGY  
CONSUMPTION/M3  
PRODUCED VENEER

**+10%**

INCREASE DRYING  
CAPACITY BY 10%

**ZERO**

ZERO FUGITIVE  
EMISSIONS



JUST ONE OPERATOR  
IS NEEDED TO RUN  
THIS DRYING LINE



# References



## Coastland Wood Industries

Market Demand means a focus on Dry Veneer production.



[Read more](#)

## Images and videos





[Animation of Veneer Drying Line R7](#)

## Downloadable material

**MAXIMIZING THE LIFETIME VALUE OF YOUR VENEER DRYING SOLUTION**

If achieving consistent veneer sheet quality is essential to the success of your plant's LVT manufacturing operation, then the veneer drying process is critical to those quality assurance efforts.

Drying veneer results in defects (such as cracking, splits, and warping) that can compromise the value of a finished product. That's why it's important to have a drying system that allows for the moisture content of the dried veneer to allow the moisture content of the veneer to be controlled. This way, veneer is more easily manipulable and suitable for a variety of different industrial applications.

Equally important, veneer that is too much dries as a "one-size-fits-all" veneer dryer. However, they also present a challenge as veneer that is dried can be extremely uneven in texture. But...

**RAUTE**

**MODERN DATA CAPTURING IN VENEER PRODUCTION**

The process can be optimized provided you know the right questions to ask and which veneer dryer features are the most important. One of the most important features in veneer drying technology is the ability to capture data. This is where modern data capturing in veneer production comes into play. In this article, we will examine four key areas of data capture in veneer drying and how they help to identify the veneer drying solution that is best suited for your needs.

1) Set your standards for relevance.

What does "data-driven" mean in the context of veneer drying? It means that data is used in the context of modern veneer drying best practices.

The more reliable and efficient we are at drying, the more we can take full advantage of a fixed air's unique properties. This allows us to more easily and more quickly — and thoroughly — drying veneer in a variety of different quality.

Therefore, the dryer you select must stand up to...

**RAUTE**

**IN HIGHLIGHT: KEY FEATURES OF RAUTE'S MILLSIGHTS**

**AN INTELLIGENT DATA HUB FOR YOUR PRODUCTION**

The Millsights intelligent data hub is a central hub for data collection and analysis. It provides real-time data on production processes, equipment performance, and quality control. The Millsights interface is designed to be user-friendly and accessible from any device, allowing users to monitor and manage their production processes from anywhere.

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**THE DRYING LINE ANALYZER TRIO**

**THE ULTIMATE GRADING ACCURACY**

The Drying Line Analyzer Trio is a unique combination of three different grading technologies: optical, acoustic, and tactile. This allows for a more accurate and efficient grading of veneer, resulting in higher quality and more consistent products. The system is designed to be easy to use and integrates easily with existing production lines.

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

Veneer drying is a critical step in the production of veneer. It is used to remove excess moisture from the veneer, which can lead to warping, cracking, and other quality issues. Drying veneer results in defects (such as cracking, splits, and warping) that can compromise the value of a finished product. That's why it's important to have a drying system that allows for the moisture content of the dried veneer to be controlled. This way, veneer is more easily manipulable and suitable for a variety of different industrial applications.

Equally important, veneer that is too much dries as a "one-size-fits-all" veneer dryer. However, they also present a challenge as veneer that is dried can be extremely uneven in texture. But...

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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.

**BENEFITS OF VENEER DRYING PROCESS**

Numerous benefits will be achieved by a well-controlled veneer drying process:

- High veneer value and quality** is achieved when produced veneer sheets have even moisture content. This is because veneer sheets with even moisture content have the highest value of the veneer as the sheets have fewer mechanical defects like splits and warping. This is because veneer sheets are more stable. That's why a lot of raw material savings and more better-quality sheets to the next production process which increases your production quantity and earnings.
- Process savings** are achieved in the energy consumption versus veneer quality and value time. The optimized drying process needs to less glue usage and shorter processing time.
- High panel quality and value** are produced with even moisture content in the core and surface of the panel, establishing dimensional. Higher quality veneer without holes, inclusions, and other defects are produced. Higher quality core panel production and higher panel surface quality. You need to do less veneer resurfacing when the drying process and the veneer grading are at optimal settings.

**THE BENEFITS OF ECONOMICAL VENEER DRYING PROCESS**

Wood structure and water. The wood material is constructed of cell structure, which varies by wood species, the ring-porous wood species have more water in the wood structure. In general, the water in the wood is positioned in three locations of the wood structure: Between wood cells, inside wood cells, and inside of cell walls.

Typically, in the broadleaf wood species, the moisture content between surface and heartwood is not exceptionally large, from 80% to 60%, as an example. But in the coniferous wood species, the difference can be relatively large, even from 20% to 40% moisture content. This is because there is a large density difference between light heartwood and high-density sapwood.

The moisture in wood cells and between cells is called "free water", and water in cell walls is called "bound water". During the veneer drying process, the free water (free and bound water at the end of the process), because the end of the drying process, the wood material starts shrinking.

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## Technical specifications

Veneer thickness (mm)	0,6 - 4
Heat Energy Consumption (KWh/m <sup>3</sup> Dry Veneer)	400
Stainless Steel Skins	●
Drying Time (min)*	2.89
Make-up Air Valves	●
Smoke extraction cells	●
Sealant cells	●
Optimized heating system	●
Exhaust Air Blower	●
Misting System	●
Dry veneer capacity* up to (m <sup>3</sup> /h)	13,6
Installed power (kW)	595
Operators on the Line (Minimum)	1

# 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 two different veneer drying line series called R3 and R7, of which the latter is the most automated line ever created for the veneer production industry. Start your production or add capacity easily with our R3-Series. Put automation and machine vision in full use with R7-Series and master your productivity with high speed.



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Making Wood Matter