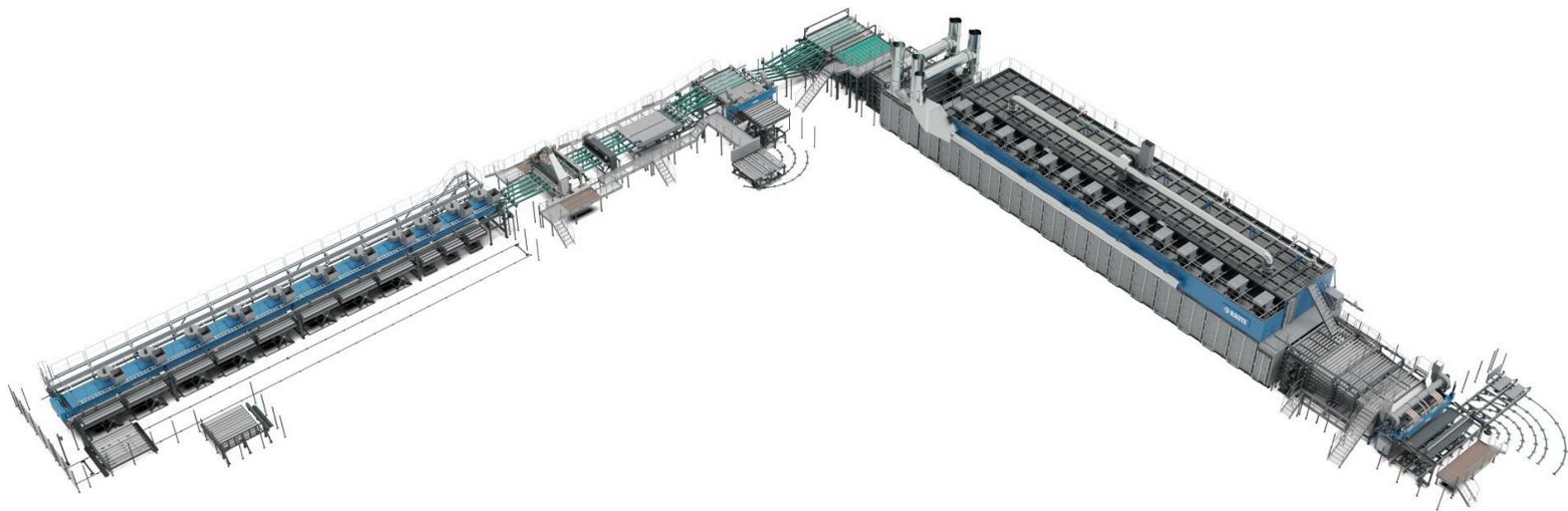


## Veneer Drying Line R7

**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



SAVE 15% IN ENERGY CONSUMPTION/M3 PRODUCED VENEER



INCREASE DRYING CAPACITY BY 10%



ZERO FUGITIVE EMISSIONS



JUST ONE OPERATOR IS NEEDED TO RUN THIS DRYING LINE



# References



## Coastland Wood Industries

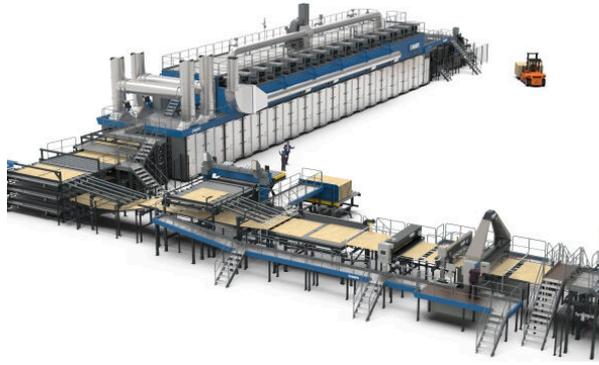
Coastland Wood Industries faced increasing demand for dry veneer and needed to expand capacity without sacrificing quality.



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## Images and videos





**RAUTE**  
VIDEO  
**THE ULTIMATE CHOICE**



[Animation of Veneer Drying Line R7](#)

A smaller, angled view of the drying line machine, showing its side profile and the arrangement of rollers and structural elements.

# Downloadable material



## MAXIMIZING THE LIFETIME VALUE OF YOUR VENEER DRYING SOLUTION

If achieving consistent veneer sheet quality is essential to the success of your plywood or LVL manufacturing operation, then the veneer drying process is critical to those quality assurance efforts.

Over-drying veneer results in defects (such as checking, splits, and warping) that can compromise the wood's ability to hold glue. In addition, when moisture levels are too high, off-the-shelf glues may not cure properly, leading to delamination. Conversely, under-drying veneer is even more problematic and results in a veneer that is susceptible to mold and other issues.

Engineered wood products (EWP) manufacturers are looking for a "one size fits all" veneer dryer. However, the most prevalent challenge is that a one-size solution can be extremely time-consuming. But the process can be fine-tuned provided you have the right questions to ask as which veneer dryer factors to evaluate most closely.

One of the key factors is longevity, a recent advancement in veneer drying technology have received many highly-veneer drying lines around the world. In this article, we'll discuss the key considerations will consider it could help to avoid as they seek to identify the veneer drying solution that makes the most sense for their business.

**1) Set your standards for reliability.**  
What does "reliable" mean in the context of your mill? More importantly, what does it mean in the context of modern veneer drying line practices?

The most reliable and efficient veneer drying line is the one that is built to last. It's not just about the initial investment, but also the long-term operational costs. They are consequently more capable of consistency — and thoroughly — drying veneer sheets of higher quality. The closer the dryer you select can stand up to



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



### 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** are achieved when produced veneer sheets have even moisture content with a minimum amount of over-dried sheets. This leads to the higher value of the veneer as the sheets have fewer mechanical defects like splits and warps, and veneer sheets are in optimum one-piece format. This means lot of raw material savings and more better-quality sheets to the next production phase which increases your production quantity and earnings.

**Process savings** are achieved in the energy consumption versus veneer quality and via a ratio. The optimized drying process leads to less glue usage and shorter pressing time.

The hi-automated drying line is **easy to operate** and the line is working all the time with best available efficiency and quality.

**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 and splits also establishes higher quality core panel production and higher panel surface quality. You need to do less after repairing when the drying process and the veneer grading are on optimal settings.

#### THE FUNDAMENTALS OF ECONOMICAL VENEER DRYING PROCESS

##### Wood structure and water

The wood material is constructed of cell structure, which varies by wood species, the major difference being between broadleaves and coniferous species. In practice, water in the wood is positioned in three locations of the wood structure: between wood cells, inside of wood cells, and inside of cell walls.

Typically, in the broadleaves wood species, the crosswise moisture variation between surface and heartwood is not exceptionally large. From 50% to 60%, as an example. But in the coniferous wood species, the difference can be relatively large, even from 200% to 50%, which is partly caused also by 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". In the veneer drying process, free water is removed first and bound water at the end of the process. Towards 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