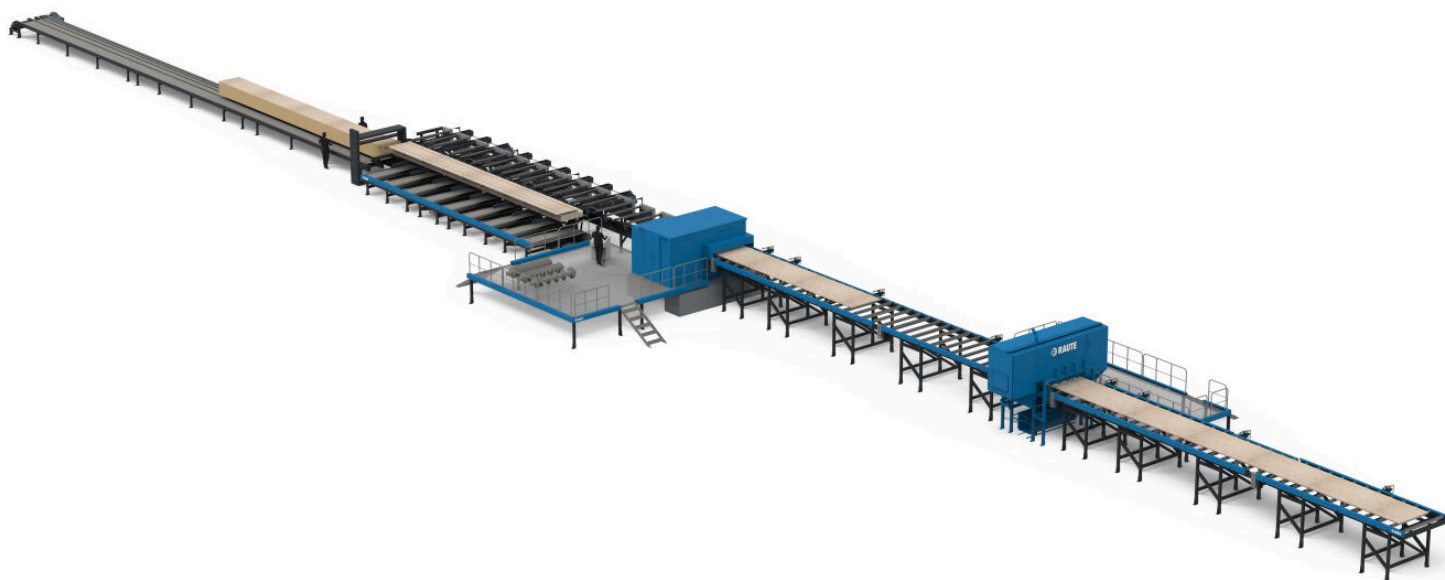


LVL Billet Handling Line R5

OPTIMIZED BILLET HANDLING AND FINISHING



LVL Billet Handling Line R5 gets the job done optimally

On Raute's Billet handling line R5 you finish your LVL products to desired length and size. The boards and panels are safely wrapped and covered from five sides. After the billet handling, the LVL products are ready for transport to the customer or working site.

The line requires only three operators for the line to function at a maximum capacity of 30 000 m³/year. The station has fixed line width and length and can handle products up to 75 mm thick. The LVL Billet Handling Line R5's LVL products are stacked according to transportation needs and the manual packaging ensures wrapping, strapping, and required transportation marks.



Key benefits

3

ONLY THREE
OPERATORS NEEDED



LENGTH AND SIZE
VARIATION
ACCORDING TO END
USE



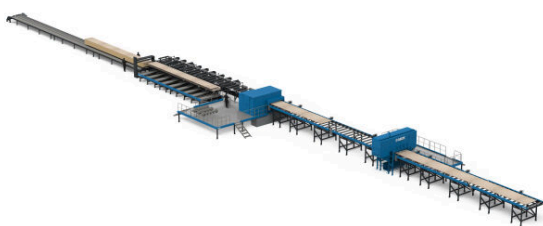
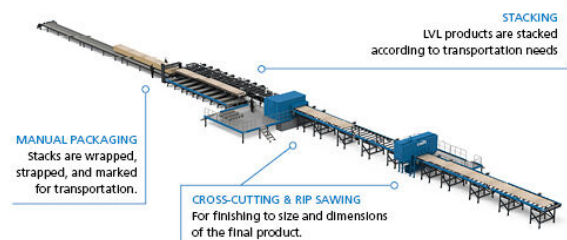
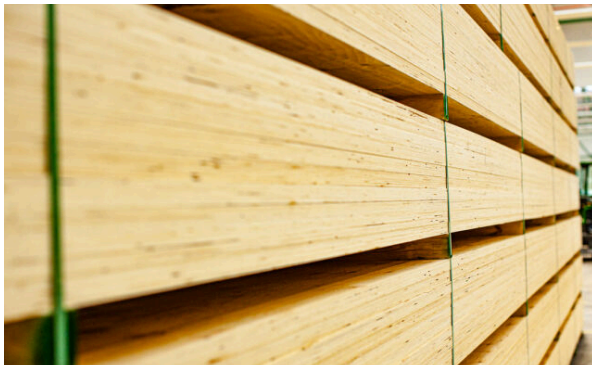
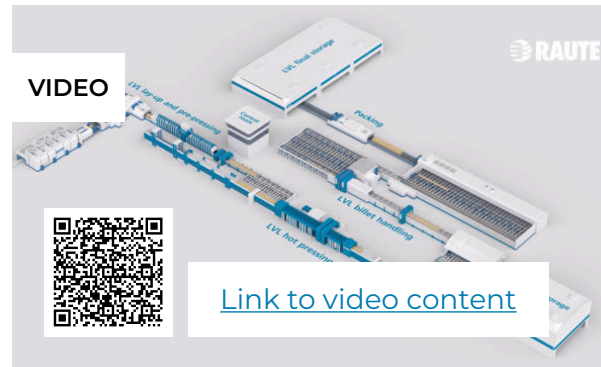
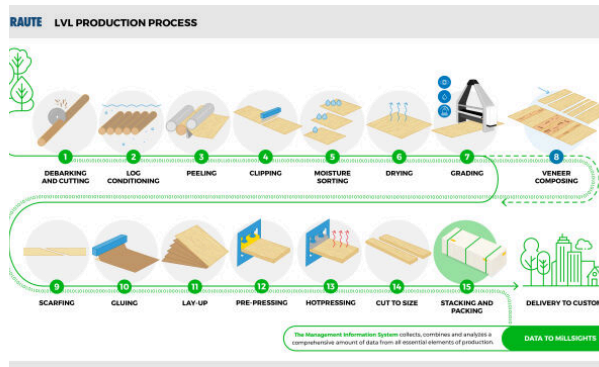
LOW INVESTMENT
COSTS

-40%

40% LESS FLOOR
AREA NEEDED THAN
R7 SERIES



Images and videos



Downloadable material



R5-Series LVL Technology

THE STANDARDIZED SOLUTION FOR LVL

We have answered the increasing demand for production profit optimization globally with a standardized easy-start solution for basic LVL production: The LVL Layout and Pressing Line R5 and the LVL Blot Handling Line B5.

This solution is perfect for plywood producers seeking a new way to increase profit or for the producers who are planning on entering the LVL market. With the B5-Series you can produce a wide enough product to replace the common market need. The lines have been designed with standardized components, so the price tag is smaller, the delivery and commission time is short, and it is easy to operate. Yet, the high quality of the end product meets the market demand.




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RAUTE POWERS SUCCESS FOR LVL MANUFACTURERS

Engineered wood products are opening up new market opportunities. Seizing them requires agility as well as the right technology. Meet Global LVL, a manufacturer that's already leading the way in meeting builders' evolving needs.

been looking for a moisture resistant and bonded with a water resistant phenolic adhesive. In this way, the dimensions of the final LVL product are not limited by the dimensions of the original raw wood. Even small diameter logs can be used to produce large beams and panels.

Because of the lack of gluing defects in LVL, its strength and weight ratio is extremely high. In fact, LVL is stronger along its length in proportion to weight. And, due to its laminated structure, LVL is dimensionally stable and consistently free of warps, splinters, and splits.

Finally, LVL is resistant to the decay with solidified glue joints, which eliminates the risk of rotting or swelling, provided dimensional properties should not be exposed to the elements.

In fact, LVL is a natural material, manufactured from certified raw materials, that also serves as a carbon storage building where it's used. One cubic meter of LVL can store carbon dioxide equivalent to 100 kg of CO₂. The material is an environmentally friendly choice, particularly for

The 19th century was the era of iron. The 20th century, concrete. But the 21st century may well be the golden era for one of the world's oldest construction materials: timber.

If so—and present building trends strongly suggest it is—then engineered wood products such as laminated veneer lumber (LVL) will undoubtedly play a major role in both residential and commercial construction in the 21st century, a role it is already starting to take.

LVL Basics

LVL is manufactured from veneer sheets that have



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With LVL we don't try to predict the future. WE BUILD IT.

What's driving the move to use more and more engineered wood, such as LVL, in buildings? Taller or low rise structures, residential or commercial, while cost per span effectiveness is usually viewed as the main reason to use LVL. In construction, most building professionals involved in this movement, include the environment, as being part of their inspiration. They are driven by the need to find safe, carbon-neutral, and sustainable alternatives to steel, brick and concrete. LVL allows designers to achieve both of these objectives: higher density at efficient cost and a smaller carbon footprint for their projects.

In addition to environmental sustainability, new structural regulations in many markets across the world, continue to increasingly drive it. One reason engineered timber, such as LVL, CLT, glulam and D-glue, is superior to brick, concrete or steel, due to their lower thermal conductivity, LVL-thin-walled structures are easier to make

more thermally efficient through increased air-tightness, a superior thermal and reduced cold bridging. This increases more and more relevant as the cost of energy has come double-digit price increases by the power companies, pushing energy consumers across the world into a fast poverty.



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GET TO KNOW LVL

Laminated veneer lumber (LVL) is an engineered wood product used in a diverse range of construction applications. LVL beams, columns, and panels have become established as essential components in modern timber construction due to their numerous advantages, versatility, and proven structural performance.

limited by the dimensions of the raw material, and even small diameter logs can be used to produce large beams and panels.

Although the production costs of LVL, like all engineered wood products, are higher compared to mass timber, with LVL the same construction can be designed with smaller LVL veneer sheets. LVL's enhanced structural properties. Through LVL's manufacturing technology, the product can be made with continuous length and large thickness and width, allowing LVL to be used in applications where suitable mass timber does not exist.

The low deviation of LVL's high strength and stiffness means that the properties can be fully utilized as characteristic values in structural design. In addition, due to the lack of possible defects, the strength to weight ratio of LVL is extremely high. LVL is twice as strong as steel in

LVL is made of veneer sheets, laid up in a moisture resistant and bonded together with water-resistant phenolic adhesive. This means that the dimensions of the final product are not



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LVL Laminated Veneer Lumber Technology




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Technical specifications

Operators on the Line	3
Capacity up to (m3/h)	6
Product Thickness Range (mm)	15-75
Line widths available (m)	1.2
LVL length (max)	14
Sanding	●
LVL edge easing	●
Face and edge sealing	●
LVL stacker bins	1
Lumber wrap packing	●
Stretch wrap packing	●

LVL billet handling

Finalizing the products to be shipped for customers

Billet handling finalizes the LVL products to their correct size and measurements with high-quality finishing. The finalized products get sealed and packed with branded and secure packings ready for transportation to customers.

After cooling, the hot-pressed billets are processed to finished LVL boards and panels. Processing may consist of sanding, cross-cutting, and rip sawing. LVL boards may be edge and face sealed against elements and finally examined and packed. Branded LVL packets from the billet handling line are ready to be shipped to end use customers.

On the billet handling line also various surface treatments can be done. The boards and beams can be painted or varnished with a weather-resistant coating which ensures that the LVL products don't mold or swell due to moisture.

Raute's billet handling solutions are always delivered with intelligent management information system MillsIGHTS.



raute.com

Making Wood Matter