

# LVL Billet Handling Line R5

## OPTIMIZED BILLET HANDLING AND FINISHING



## LVL Billet Handling Line R5 gets the job done optimally

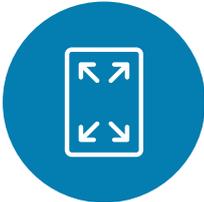
On Raute's Billet handling line R5 you finish your LVL products to desired length and size. The boards and panels are safely wrapped and covered from five sides. After the billet handling, the LVL products are ready for transport to the customer or working site.

The line requires only three operators for the line to function at a maximum capacity of 40 000 m<sup>3</sup>/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



**ONLY THREE  
OPERATORS NEEDED**



**LENGTH AND SIZE  
VARIATION  
ACCORDING TO END  
USE**



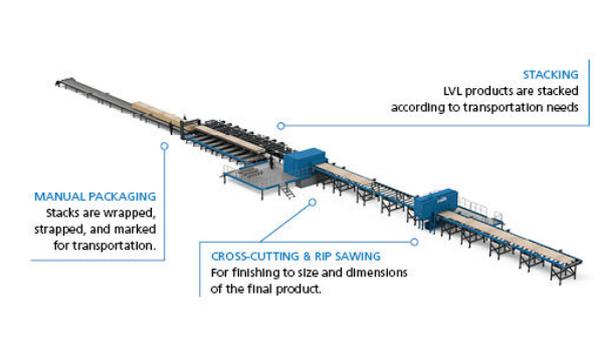
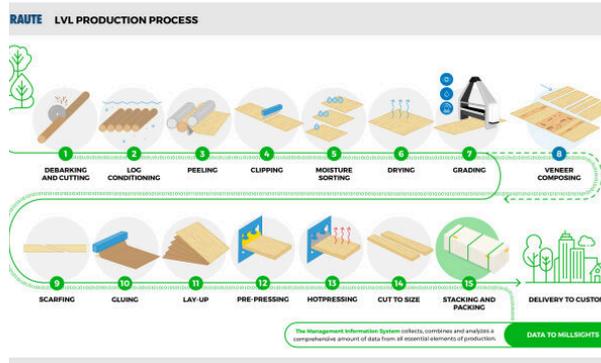
**LOW INVESTMENT  
COSTS**



**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 Blivet 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 R5-Series you can produce a wide enough product repertoire that the common markets 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.

The 19th century was the era of iron. The 20th century's concrete. But the 21st century may well be the golden age 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 and beyond.

**LVL Basics**  
LVL is manufactured from veneer sheets that have been laid up in a matrix resin 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 natural defects in LVL, its strength and weight ratios are extremely high. In fact, LVL is stronger than steel on a proportion to weight basis, and, due to its laminated structure, LVL is dimensionally stable and consistently free of warps, splinters, and splits.

Finally, LVL is covered with the factory-applied moisture controls, which eliminates the risk of shrinkage or swelling, provided the material is properly shielded from exposure to the elements.

In sum, LVL is a natural material, manufactured from certified raw materials, that also serves as a carbon storage medium throughout its useful life. One cubic meter of LVL can store carbon for 100 years equivalent to 100 kg of CO<sub>2</sub>. This makes LVL an environmentally friendly choice, particularly for



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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 drive demand for use in construction engineered timber, such as CLT, CLT-glulam and glulam, compared to brick, concrete or steel, due to their lower thermal conductivity. LVL-based timber structures are easier to make more thermally efficient through its reduced air tightness, compared to masonry and reduced cold bridging. This becomes more and more relevant as the cost of energy has come double digit per megawatt by 10 power companies, pushing many countries to cross the world into a fast power



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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 solid timber, with LVL the same construction can be designed with smaller LVL sections due to LVL's enhanced structural properties. Through LVL's manufacturing technology, the product can be made with continuous length and large dimensions and width, allowing LVL to be used in applications where suitable solid timber sizes are not available.

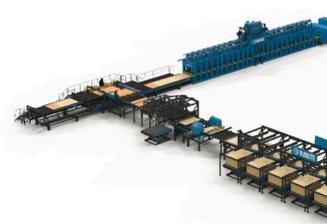
The low deviation of LVL's high strength and stiffness makes it an ideal choice for structural design. In addition, due to the lack of natural defects, the strength to weight ratio of LVL is extremely high. LVL is twice as strong as steel in



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## LVL Laminated Veneer Lumber Technology




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## Technical specifications

|                                    |       |
|------------------------------------|-------|
| Operators on the Line              | 3     |
| Capacity up to (m <sup>3</sup> /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               | ●     |