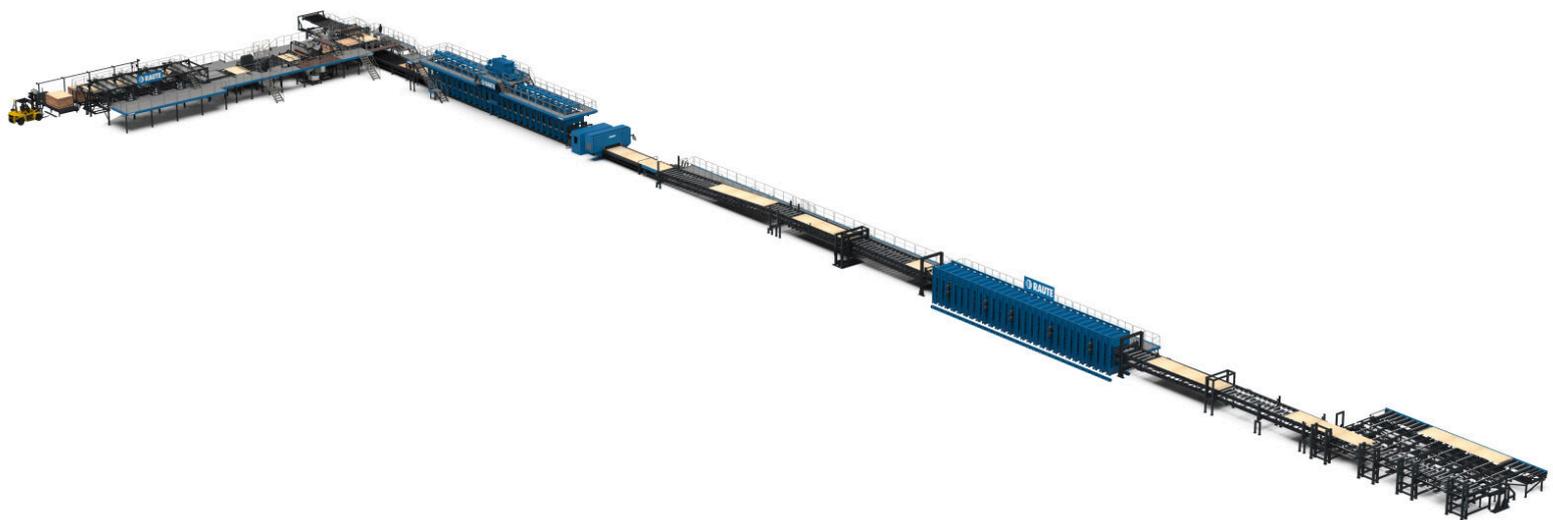


# LVL Lay-up and Pressing Line R5

## STANDARDIZED SOLUTION



## LVL Lay-up and Pressing Line R5 is the standardized solution for LVL production

We have answered the increasing demand for production profit optimization globally with a standardized easy-start solution for basic LVL production – The LVL Layup and Pressing Line R5. The solution is always delivered with the LVL Billet Handling Line R5.

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 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-products meets the market demand.

LVL Lay-up and Pressing Line R5 uses the same well-proven technology that our R7-series has, but it is designed for lower capacity needs. The R5 produces high-quality LVL with a fixed veneer size of up to 14 meters long. Due to optimized capacity and features, we have been able to reduce the needed floor area by 40% and the line needs only three operators to function in full capacity.

With R5 Series LVL Lay-up and Pressing Line, you can produce parallel ply LVL-P of most common raw materials. Standard solution means ready setup for you to produce a single product with mediocre capacity.

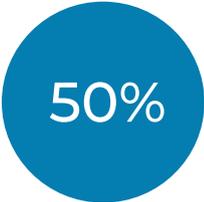
# Key benefits



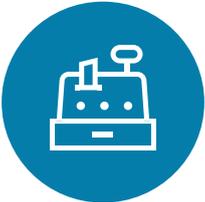
**ONLY THREE  
OPERATORS NEEDED**



**UP TO 14 M LONG LVL  
PRODUCTS**



**OVER 50% OF LVL  
GLOBALLY PRODUCED  
BY RAUTE  
TECHNOLOGY**



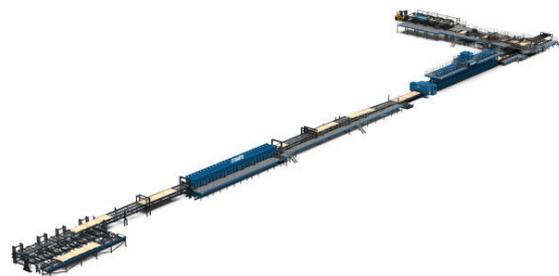
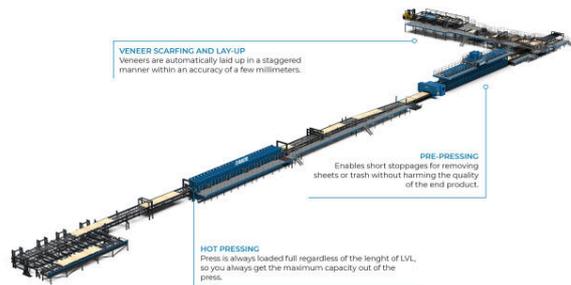
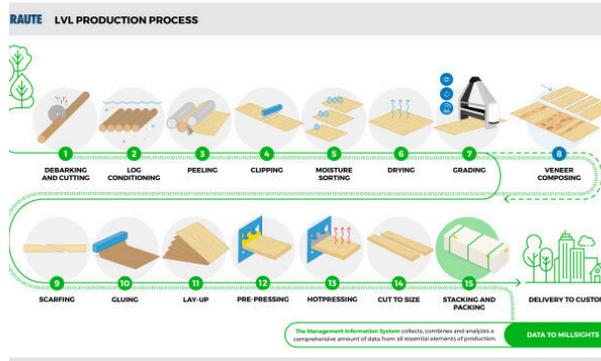
**LOW INVESTMENT  
COSTS**



**STANDARD  
SOLUTIONS SECURES  
FAST  
MANUFACTURING,  
COMMISSIONING &  
RAMP-UP**



# 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 proportionate 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 very best available 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 life span. One cubic meter of LVL can store around 100 kg of carbon equivalent to 10% 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 parts of the world, continue to drive demand for use in construction engineered timber, such as CLT, CCT, glulam and D-glue, 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 natural 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 dimensional stability, allowing LVL to be used in applications where suitable natural 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
Daylight No. (max)	2
Daylight opening (max)(mm)	150
Product Thickness Range (mm)	15-75
Veneer sizes (ft)	8x4
Line widths available (m)	1.2
LVL length (max)	14
Veneer grades	4
Parallel Ply (LVL-P)	●
Cross Ply (LVL-C)	●
Phenolic resin glue	●
Smart thickness control	●