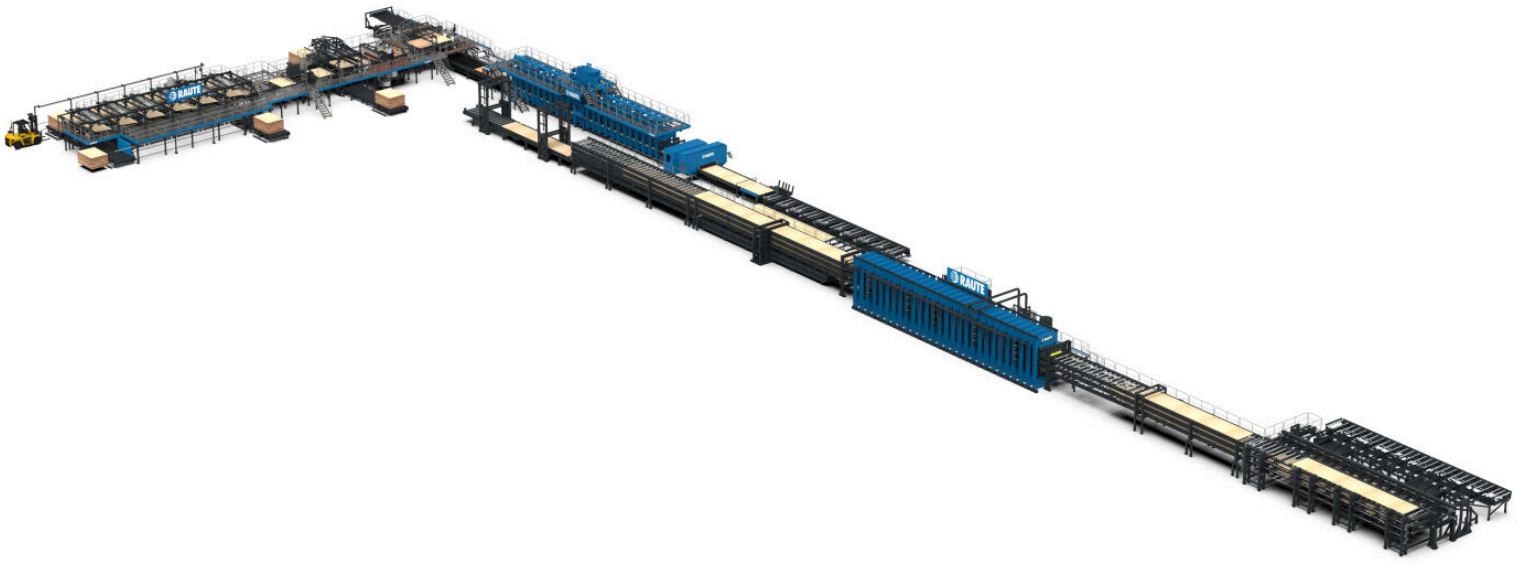
RAUTE

LVL Lay-up and Pressing Line R7

THE SUPERIOR QUALITY LVL STARTS HERE



LVL Lay-up and Pressing Line R7 guarantees premium quality

The first steps of the LVL production process start from veneer scarfing followed by the lay-up. At this stage, the LVL gets its load-bearing structure, and the pressing line finalizes the product.

The LVL Lay-up and Pressing Line R7 is capable to manufacture LVL according to all international standards and all customer specifications. With our line, you can produce LVL products from the most common LVL raw materials – pines, spruce, and firs. Hardwoods can be sometimes added to increase the strength properties of an LVL product.

The Lay-up and Pressing Line R7 needs only three operators which makes this line almost fully automated and easy to use. Our process is continuous, and every production phase is intact in one line. The prepressing enables short stoppages for removing sheets or trash without harming the quality of the end product – on the contrary, this improves the quality because no defective material stays in the billet.

We use phenol glue to make the LVL products strong and glue lines permanent in any condition over the whole life span. The hot-pressed glue lines prevent the product from splitting or warping.

With Raute's experience of over 40 years in LVL manufacturing, you can be sure to have the best solutions for your needs. In addition, the line's hot-press is heated with the factory's by-products, which makes the line energy efficient. This adds value to what you get by choosing Raute's lay-up and pressing line R7.

The LVL Lay-up and Pressing Line R7 guarantees the producer the highest quality LVL products with a vast variety of options concerning the production capacity, dimensions, or state of automation and add-ons.

Key benefits

3

ONLY THREE OPERATORS NEEDED

24m

UP TO 24 M LONG LVL PRODUCTS

40+

OVER 40 LVL PRODUCTION LINES DELIVERED GLOBALLY

50%

OVER 50% OF LVL GLOBALLY PRODUCED BY RAUTE TECHNOLOGY

EFFICIENT AND ACCURATE PRODUCTION

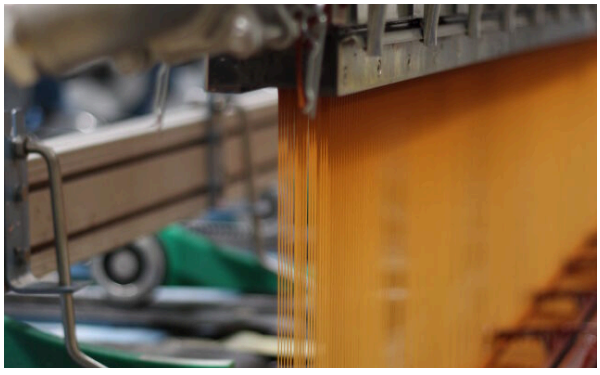
References

VMG Lignum

VMG Lignum takes a giant leap towards creating a sustainable home by adding LVL mill.

Read more

Images and videos



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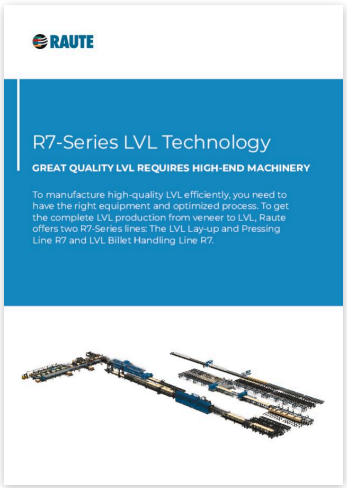

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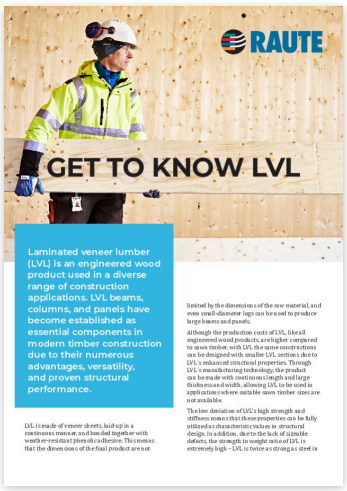

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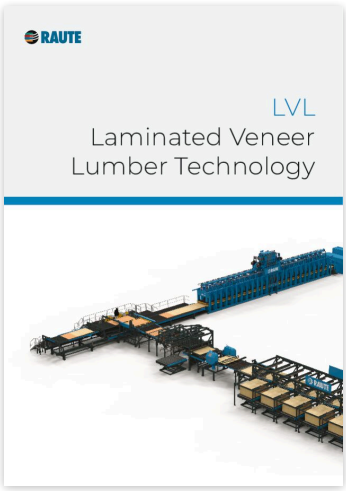

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Technical specifications

Operators on the Line	3
Capacity up to (m3/h)	24
Daylight No. (max)	8
Daylight opening (max)(mm)	150
Product Thickness Range (mm)	15-90
Veneer sizes (ft)	6x6, 8x4, 8x6, 8x8
Line widths available (m)	1.2, 1.8, 2.5
LVL length (max)	24
Veneer grades	7
Parallel Ply (LVL-P)	●
Cross Ply (LVL-C)	●
Phenolic resin glue	●
Smart thickness control	●

LVL lay-up and pressing

Good quality graded veneer sheets are the base for good quality LVL

The first steps of the LVL production process start from the lay-up. At this stage, the LVL gets its load-bearing structure, and the pressing line finalizes the product.

On the LVL lay-up line the structurally graded veneers in correct order are scarfed and glued, and after the final quality check laid-up in a continuous manner. Under the supervision of one operator, an endless lay-up is formed and immediately prepressed to secure flawless gluing of veneers. Billets of desired lengths are then cut and transferred to the hot press, where heat and pressure secure waterproof glue bonds.

The veneer sheet goes through a scarfing saw where a joint is cut, and it ensures the correct and secure jointing of consecutive veneers. This increases the durability of the end product. With continuous lay-up, you can produce up to 75 mm thick and up to 24 meters of LVL material according to your needs. With this technology and hot pressing, the measurements stay unchangeable, and you can produce high-quality LVL with high recovery.

Raute, with over 40 years of experience, offers the highest quality and the most sophisticated R7 Series and the new R5 Series LVL lay-up and pressing machinery. The solutions add value to your production with modern and intelligent technology, sustainability, and energy efficiency.