RAUTE

Plywood Lay-up Line R7

MAXIMIZE LAY-UP CAPACITY AND REDUCE GLUE CONSUMPTION



Plywood Lay-up Line R7 - optimized for high-quality plywood

The fully automated Plywood Lay-up Line R7 follows the operator-set recipe and automatically feeds the sheets in the correct order for lay-up. It utilizes intelligent analyzers to optimize sheet alignment and veneer pairing allows feeding up to three sheets at once for maximum capacity.

Raute one-sided liquid extruder (LEG) and curtain coating (CC) gluing methods in the line as well as gripper veneer feeding options are gentle and don’t break thinner sheets. One-sided gluing saves up to 25% in glue consumption compared to traditional roller gluing. Vacuum box feeding is available for cross grain sheets.

The use of paired ply numbers in one-sided gluing enables using thicker sheets inside the structure, bringing savings in glue consumption through a reduced gluing need. An optional camera analysis for gluing control further optimizes chemical use. MillSIGHTS data capturing and reporting system analyzes production capacity and operation for you, suggesting optimal settings for maximum productivity.

The first one-sided R7-Series lay-up lines were delivered over 20 years ago. Most of the world's one-sided lay-up lines have been delivered by Raute. Utilize our expertise also for designing a tailored lay-up line for your specific needs!

Key benefits

15000

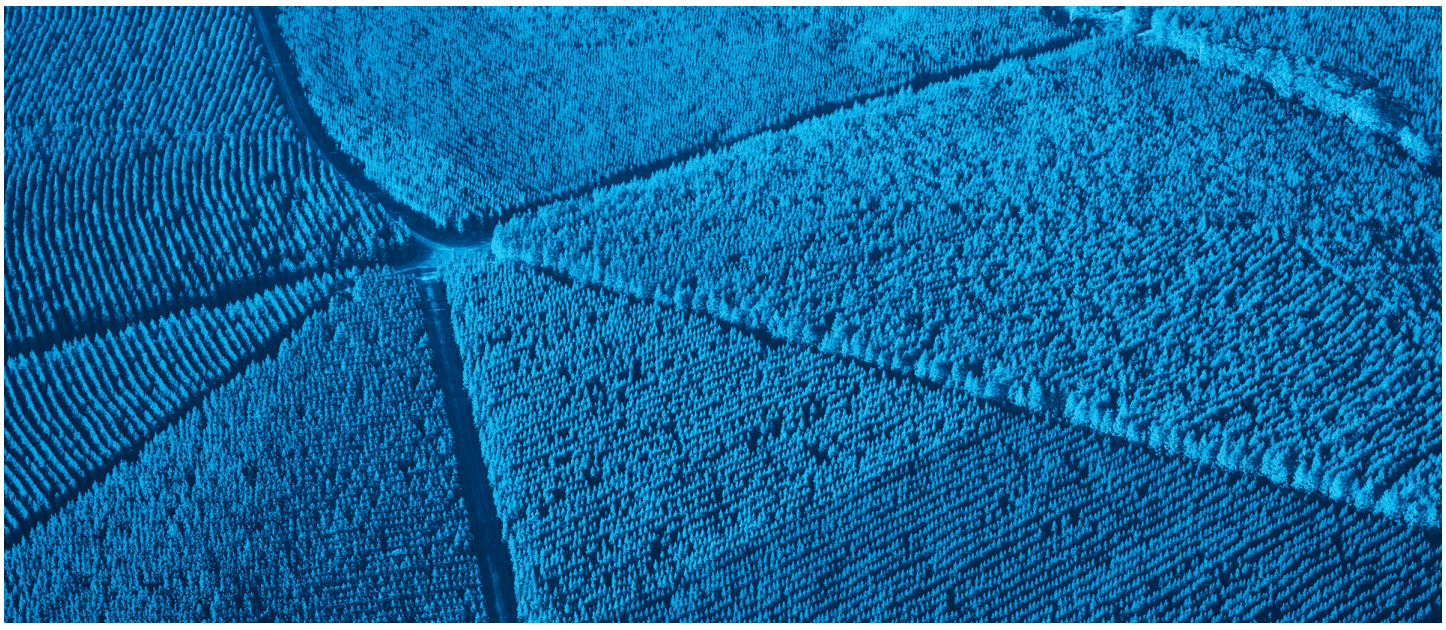
CAPACITY UP TO 15 000 VENEER SHEETS PER 8H WORK SHIFT

ONLY ONE OPERATOR NEEDED

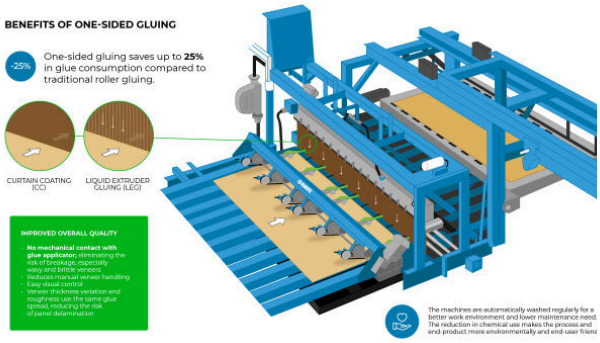
-25%

SAVE UP TO 25% IN GLUE CONSUMPTION

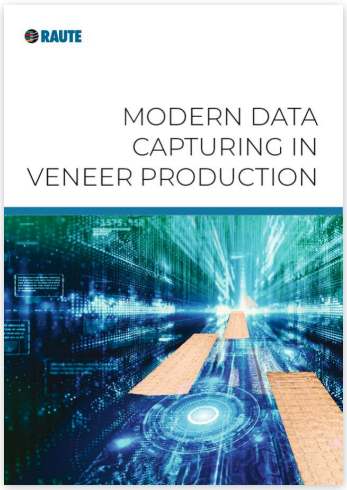
FULLY AUTOMATIC LAY-UP LINE OPERATION FOR MAXIMUM PRODUCTIVITY



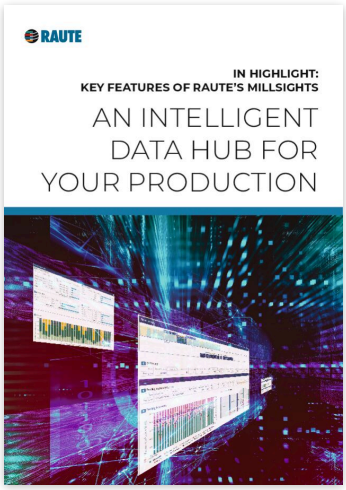
Images and videos



Downloadable material



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Technical specifications

	Vacuum Box	Gripper
Operators on the Line	1	1
Veneer Pairing	●	●
Automatic Veneer Grading	●	●
Automatic Veneer Aligning	●	○
Installed power (kW)	380	185
Tailored Plywood Size Available	●	●
Changeable Gluing method	●	●
Lay-up tablet	●	●
Glue spread (g/m2) min.	●	120
Automatic Bottom plate feeding	●	●
Non-Stop	●	●
Plywood sizes	8x4, 8x8	4x8, 5x10
Capacity up to (sheets/8h)	15000	11000

Plywood lay-up

Plywood lay-up with optimized glue consumption

In lay-up, face veneers, long core veneers and cross core veneers are combined into plywood, and fed to the lay-up table in the correct order for each cross-ply construction. Glue is spread evenly between every layer to make the sheets stay together.

With 50 deliveries of plywood lay-up lines, Raute is the number one provider of one-sided gluing solutions in the world. Raute Plywood Lay-up solutions bring up to 25% savings in glue consumption compared to traditional roller gluing. The machines are automatically washed regularly for a better work environment and lower maintenance need, and the wash water is re-used in mixing glue. The reduction in chemical use makes the process and end-product more environmentally and end-user friendly.

The right fit for your needs depends on your capacity expectations and desired number of operators. Fast changing of glue spreading systems from Liquid Extruder Gluing (LEG) to Curtain Coating (CC) brings flexibility to your production, making the use of different glue mixtures possible. Even gluing quality brings savings in hot pressing through less waste.

Start your production or add capacity easily with our R3-Series. When you want a proven, widely-known workhorse of the industry, the R5-Series is your solution. Put automation and machine vision in full use with our flexible R7-Series and master your productivity with high speed and maximum capacity.