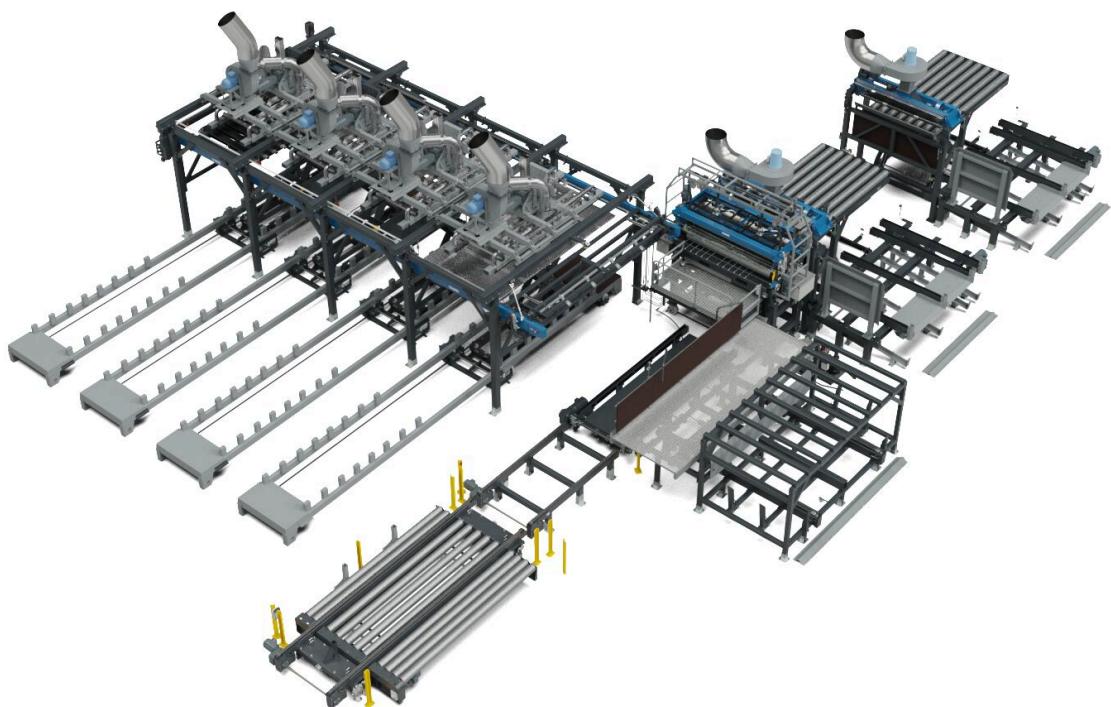


## Plywood Lay-up Line R5

**IMPROVE PRODUCTIVITY WITH  
AUTOMATED PLYWOOD LAY-UP**



# Plywood Lay-up Line R5 - automated for better productivity

The automated Plywood Lay-up Line R5 feeds the sheets to lay-up according to your recipe. Face veneer pairing allows you to feed up to two sheets at once.

The line's gripper veneer feeding options, as well as liquid extruder (LEG) and curtain coating (CC) gluing methods, are gentle and don't break thinner sheets. Vacuum box feeding is available for cross-grain sheets. Paired ply numbers in one-sided gluing allow you to use thicker sheets inside the plywood structure, bringing up to 25% savings in glue consumption through a reduced need for gluing sheets.

The Compact Plywood Lay-up Line R5 is the latest addition to the Raute portfolio, tailored for mills that employ roller spreaders rather than a curtain/extruder or spray-booth system. While roller spreaders are effective, they remain labor-intensive, and in today's market, staffing and retention are increasingly difficult. In addition, many automated lay-up solutions exceed 100 ft in length, posing space constraints for compact mill layouts.

The Compact Plywood Lay-up Line R5 directly addresses both space and labor challenges. Requiring just a 50 × 40 ft footprint, it significantly reduces operator intervention. Where two personnel would typically handle and position sheets manually, this line's semi-automated veneer feeder streamlines the process and reduces the number of operators from four to two. The result is enhanced workplace safety and a lower incidence of repetitive-stress injuries, delivering efficiency without compromise.

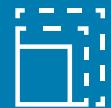
MillSIGHTS data capturing and reporting system analyzes capacity and operation, and helps optimize settings for better productivity.

Raute has delivered the most one-sided gluing lay-up lines in the world for over 20 years. Utilize our expertise to design tailored lay-up lines for your specific needs!

## Key benefits

13000

-25%



CAPACITY UP TO 13  
000 VENEER SHEETS  
PER 8H WORK SHIFT

SAVE UP TO 25% IN  
GLUE CONSUMPTION

GENTLE VENEER  
HANDLING BRINGS  
SAVINGS IN RAW  
MATERIAL USAGE

FLEXIBILITY IN  
HANDLING DIFFERENT  
SIZE VENEER SHEETS



# References



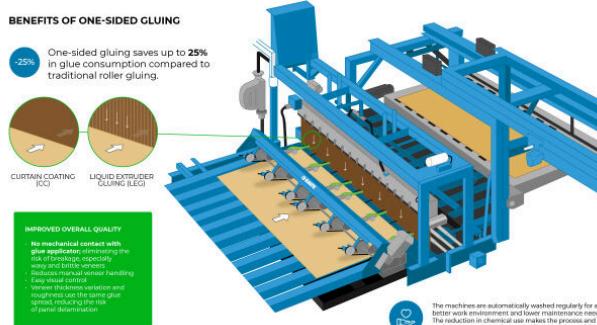
## Plyterra

Plyterra optimized their Plywood Lay-up process with one-sided gluing.



[Read more](#)

## Images and videos



## Technical specifications

	R5-Vacuum Box	R5-Gripper	R5-Roller	Compact R5-Roller
Operators on the Line	2	2	1	1-2
Veneer Pairing	Top face	Top face	Faces	Faces
Gluing Method	Curtain Coating / Liquid Extruder	Curtain Coating / Liquid Extruder	Roller spreader	Roller spreader
Installed power (kW)	250	138	136	95
Tailored Plywood Size Available	●	●	●	●
Glue spread (g/m <sup>2</sup> ) min.	120	120	150	150
Plywood sizes	4x8, 5x10	4x8, 5x10	4x8, 5x10, 6x12	8x4
Capacity up to (sheets/8h)	13000	11000	8000	10000

# 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.



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Making Wood Matter