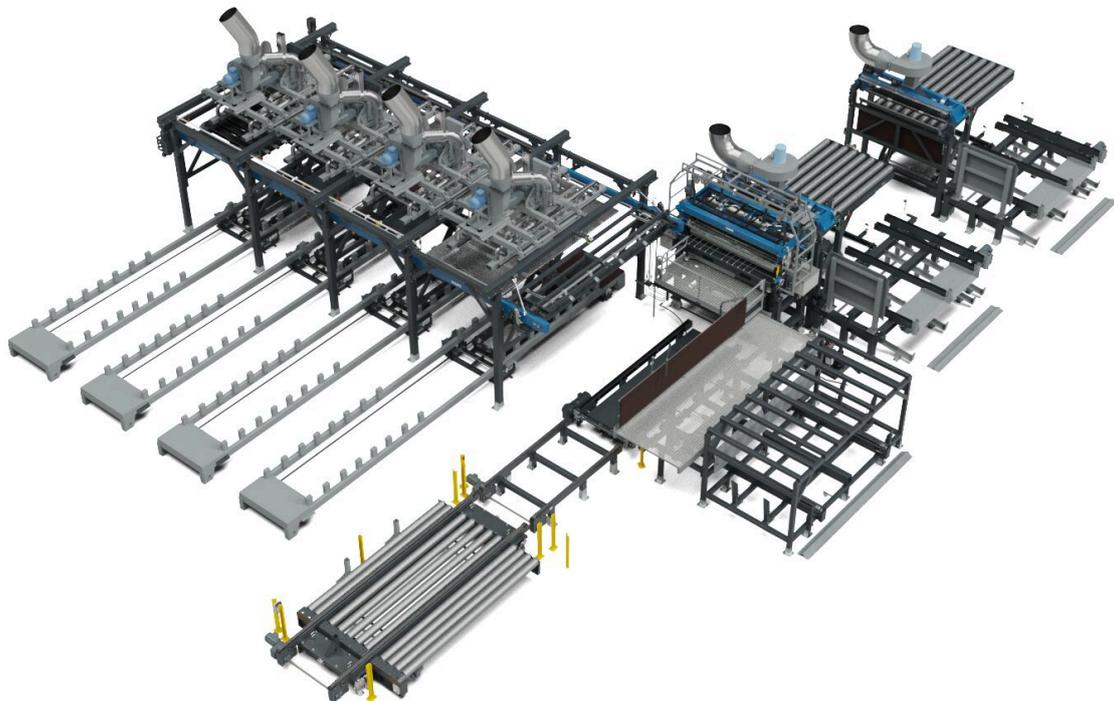


## Plywood Lay-up Line R5

**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

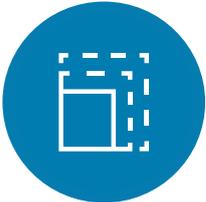
CAPACITY UP TO 13 000 VENEER SHEETS PER 8H WORK SHIFT

-25%

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

**BENEFITS OF ONE-SIDED GLUING**

**-25%** One-sided gluing saves up to 25% in glue consumption compared to traditional roller gluing.

**CURTAIN COATING (CC)**      **LIQUID EXTRUDER (GLUING LEG)**

**IMPROVED OVERALL QUALITY**  
No mechanical contact with glue application, decreasing the risk of glue defects.  
Reduced manual labour handling.  
Even glue coat.  
Uniform thickness variation and consistency per the gluing drum, reducing the risk of panel deformation.

**RC** The machines are automatically washed regularly for a better work environment and lower maintenance needs. The reduction in chemical use makes the process and end product more environmentally and safe user friend.

**RAUTE**  
**VIDEO**  
**Automated for better productivity**

**Plywood Lay-up Line R5**

## 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             |