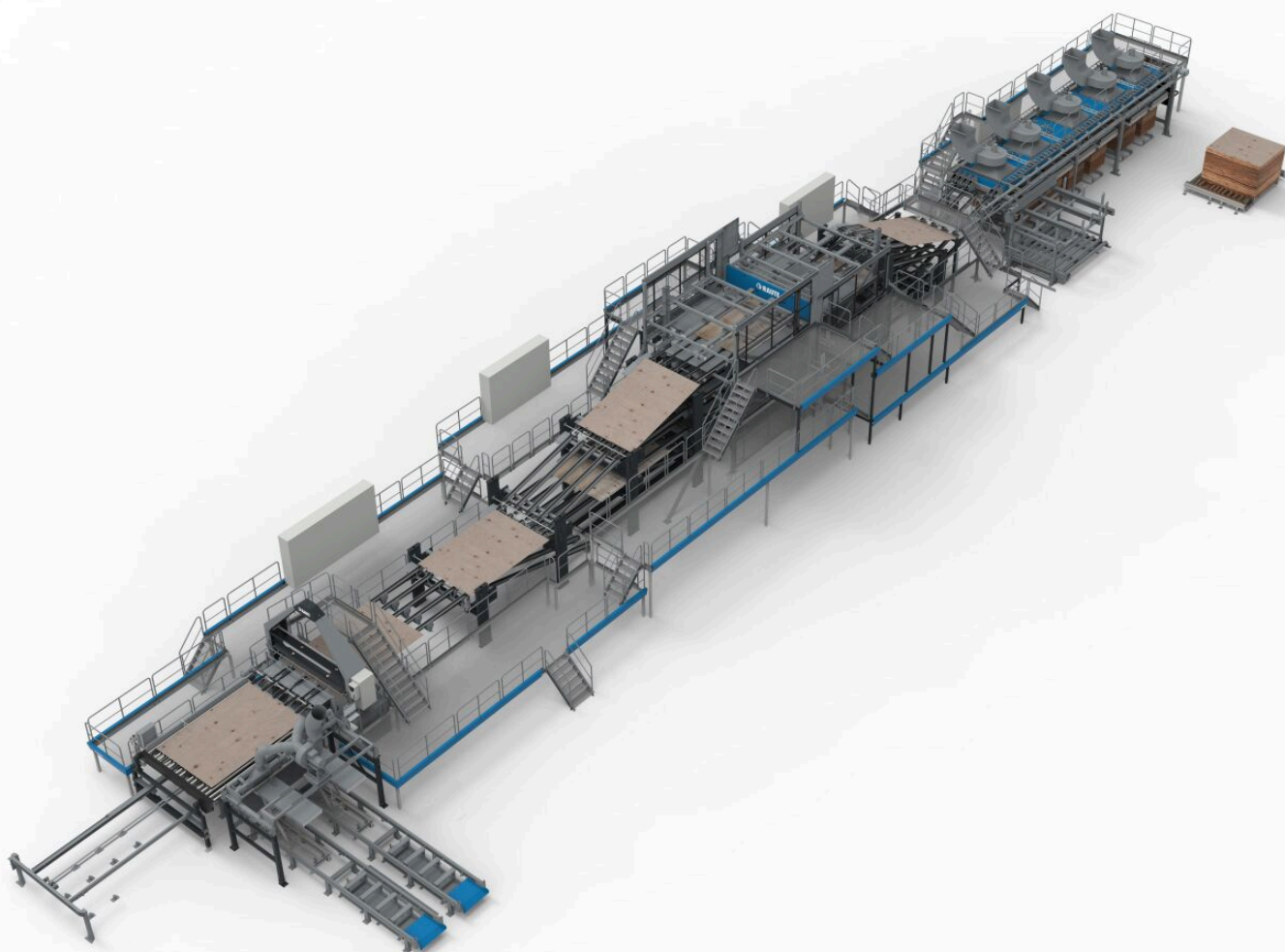# RAUTE

Veneer Patching Line R7

MAXIMIZE FACE VENEER RECOVERY AND QUALITY

Veneer Patching Line R7 - master your productivity

Master your productivity with automation and machine vision - produce the highest grade veneer with ease out of any wood species with Raute Veneer Patching Line R7.

Repairing veneer by patching the holes and knots is one of the most cost-effective ways to improve the value of the end product in terms of more valuable plywood grades → Veneer Patching.

Raute's Veneer Patching Line R7, a patented concept, is a fully automated patching line with the most advanced technology on the market. It helps you maximize face veneer recovery and get consistent, upgraded high-quality panels over four times faster than repairing manually. And only one operator is needed!

Raute's Veneer Patching Line R7 has a unique integrated vision system analyzer for defect analysis and grading with veneer recovery optimization. This leading technology is well-proven delivering the highest possible patched veneer quality. With MillSIGHTS data capturing and reporting system you get deep insight into patching performance, "what-if" scenarios, and line availability.

And, it comes with our suggestion: durable butterfly type patching head and multiple die sizes optimized for each wood species having their own typical defects.

Veneer Patching Line R7 is your choice when you require the best consistent veneer quality and capacity. With its possibility of 1-4 pathing levels, you achieve a patching speed of 3200-12000 patches/h. Over four million patches are made daily by R7-series patching lines globally.

Key benefits

3200

UP TO 3200 PATCHES /H/LEVEL

-10%

NO OVER PATCHING SAVES UP TO 10% IN NUMBER OF PATCHES NEEDED

HIGHEST RETENTION WITH SOLID WOOD BUTTERFLY PATCHES

ONE OPERATOR

References

POLAND

Paged Morag S.A.

The Veneer Patching Line R7 was installed in Paged's Morag mill in 2013. It is one of the first R7 series in Europe.

[Read more](#)

CANADA

Richmond Plywood

Over two decades, partnership between Richmond Plywood and Raute has optimized production through integrated Raute's machinery.
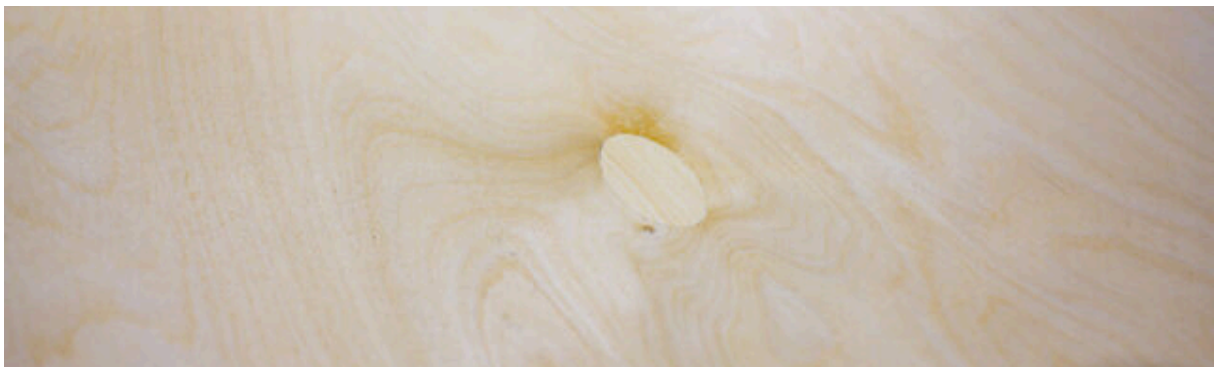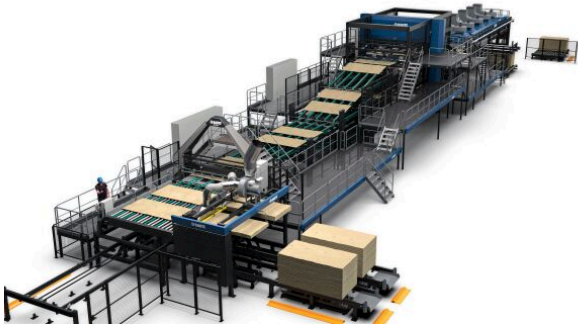
[Read more](#)

CANADA

Columbia Forest Products, Hearst

Columbia Forest Products modernized their patching line in September 2019. They saw an ROI in just over a year.

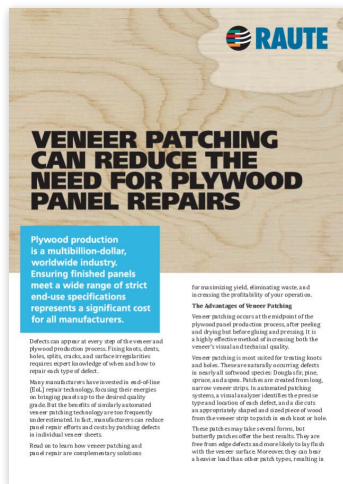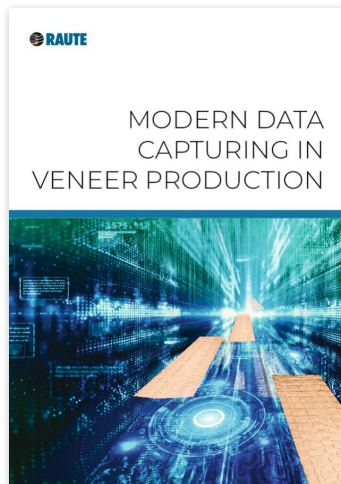[Read more](#)

Images and videos

VIDEO

[Link to video content](#)

VIDEO

VENEER PATCHING LINE R7

[Raute Veneer Patching Line R7](#)

Downloadable material

VENEER PATCHING CAN REDUCE THE NEED FOR PLYWOOD PANEL REPAIRS

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MODERN DATA CAPTURING IN VENEER PRODUCTION

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IN HIGHLIGHT:
KEY FEATURES OF RAUTE'S MILLSIGHTS

AN INTELLIGENT DATA HUB FOR YOUR PRODUCTION
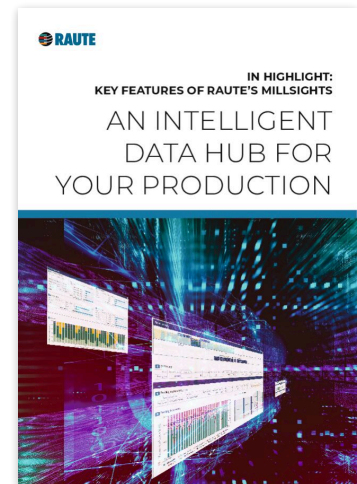
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Technical specifications

Veneer thickness (mm)	1.1 – 5
Operators on the Line	1
Installed power (kW)	200
Veneer size variation (ft)	4x4 – 8x8 – 8x13
Defect detection camera	XXX
Capacity up to (veneers/h with avg. 10patch/sheet)	1200
Automatic veneer stacking	●
Minimum Floor space needed (m)	8x30

Veneer patching

Maximize face veneer recovery by patching with solid wood

Repairing veneer by patching holes and knots is one of the most cost effective ways to improve value of end product in terms of more valuable plywood grades.

There is an increasing demand for face veneer in the production of thinner panels and a decreasing amount of large-diameter logs available. Patching is regarded as a practical solution to quickly increase the amount of face veneer from smaller-diameter logs for the correct raw material balance in the plywood structure.

Patches come in various forms: butterfly, oval, and boat being the most common ones. Out of these the butterlfy patch that comes in many sizes, is the most efficient one. It does not pop up and bears double the load compared to the other types, and saves up to 25% in patching material. It is the easiest way to eliminate broken veneers.

The patching technology includes at least one patching level with one or two patching heads, depending on the veneer sizes. The patching heads are permanently installed in fixed positions on the patching frame whereas the veneers are moved and positioned under the heads.

A line may comprise 1- 4 patching levels and a by-pass conveyor which gives an additional grading feature with uniform patching rules from the line camera recipe. With the latest intelligent camera technology the patching decisions and grading rules can easily be controlled in accordance with the most common grading standards. And you never over patch, nor under patch!

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.