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TM NEWS

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Precision Meets Sustainability:

Arauco Elevates Production with Full System TM Opti-Solution

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Innovative Partnership Accelerates Finger-Jointing Performance

System TM has once again joined forces with Bosch Rexroth to develop a state-of-the-art long-length finger-jointing press, designed to deliver increased capacity and precision, especially for CLT- and GLT-production lines.

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Kjell & Co Enhances Pallet Production

with Advanced Cross-Cut Technology

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Century Old Craftsmanship

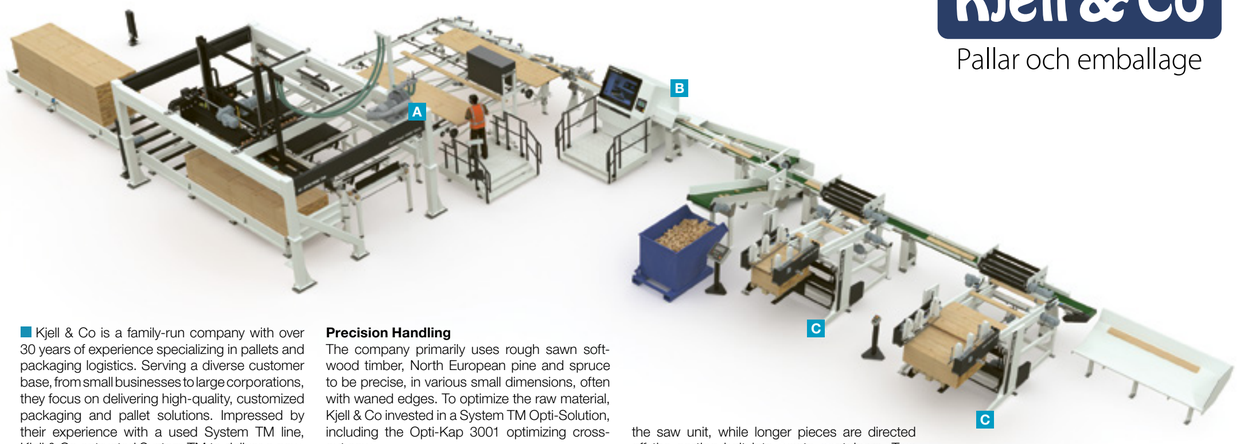
Meets High-Technology Flooring Production in France

Read the full story on page 3

Kjell & Co Enhances Pallet Production
with Advanced Cross-Cut Technology

The established Swedish family business empowers the logistics industry by providing customized, high-efficiency packaging solutions. Leveraging innovative machinery and sustainability initiatives, they improve quality and promote environmental responsibility throughout the industry.

By Aislinn Esterle



Kjell & Co is a family-run company with over 30 years of experience specializing in pallets and packaging logistics. Serving a diverse customer base, from small businesses to large corporations, they focus on delivering high-quality, customized packaging and pallet solutions. Impressed by their experience with a used System TM line, Kjell & Co entrusted System TM to deliver a new, state-of-the-art, optimizing cross-cut solution to meet growing demand and quality standards.

Collaborative Line Development

Together with L.O.A.B., System TM's distributor in Sweden, Allan Them, Area Sales Manager at System TM, designed a compact and efficient production line tailored to Kjell & Co's needs. "Working closely with the customer allowed us to design a production line that perfectly balances efficiency, precision, and scalability. This is how we could deliver a solution that meets both their current needs and future growth," explains Allan Them. The system maximizes output while maintaining precision and reliability.

Kjell & Co purchases, collects, and delivers pallets and pallet collars, alongside a broad selection of packaging materials such as corrugated boxes, cushioning, tape, and stretch film.

Precision Handling

The company primarily uses rough sawn softwood timber, North European pine and spruce to be precise, in various small dimensions, often with waned edges. To optimize the raw material, Kjell & Co invested in a System TM Opti-Solution, including the Opti-Kap 3001 optimizing cross-cut saw.

"The Opti-Kap 3101 is designed to optimize every board, minimizing waste while maximizing output, which is essential for companies like Kjell & Co that demand high-quality while maintaining cost-effective production," says Allan Them.

The production line begins with a roller conveyor that transports packs of wood from the raw wood warehouse to the line. Next, an Opti-Feed 6000 Vack vacuum infeed portal lifts layers of workpieces onto a conveyor. A sweeper then removes sticks from the layers, which collect beneath the conveyor.

Integrated LIMAB measuring technology detects waney edges and guides the integrated board turning device to ensure optimal orientation before cutting.

The saw operates using software-driven optimization to cut boards into fixed lengths. Short waste pieces are removed directly inside the saw unit, while longer pieces are directed off the sorting belt into waste containers. Two Opti-Stack 3000 units stack the fixed-length workpieces into packs using stick or brick/zigzag stacking methods, with pallets manually supplied at the stacking stations.

Commitment to Sustainability

Kjell & Co promotes sustainability through a nationwide network of collection stations in collaboration with municipalities and recycling companies, facilitating environmentally responsible disposal and reuse of cargo packaging. "Efficient material use and waste reduction are key drivers in modern manufacturing. Our systems help customers like Kjell & Co achieve these goals without compromising on product quality or delivery timelines," Allan Them emphasizes.

The company delivers only approved products that comply with statutory producer responsibility, easing liability concerns for customers. Quality control is a priority; packaging is offered at various strength levels and undergoes thorough inspection to meet strict environmental and safety standards.

Championing Growth

"With rapidly evolving market demands, investing in advanced technology today is crucial for meeting tomorrow's challenges," says Allan Them. "We're proud to support Kjell & Co as they continue to innovate and set industry standards through smart automation."

With over three decades of expertise, Kjell & Co continues to evolve by integrating advanced technology and sustainable practices into their operations. Their partnership with System TM and L.O.A.B. resulted in an efficient cross-cut production line, enhancing their ability to deliver high-quality, tailored pallet and packaging solutions. Kjell & Co remains a trusted leader in the Swedish freight and logistics industry, combining a strong focus on environmental responsibility with rigorous quality standards.

Data for the line:

Production:	Pallet & Container
Wood species:	Softwood
Number of operators:	1
Country:	Sweden

This System TM solution consists of the following:

- **A** **OPTI-FEED 6000 VACK**
  Automatic feeding system
- **B** **OPTI-KAP 3101**
  Optimizing cross-cut saw
- **C** **OPTI-STACK 3000**
  Automated stacking system

The Opti-Stack 3000 stacking system stacks up to 150 uniform workpieces or 12 layers per minute.

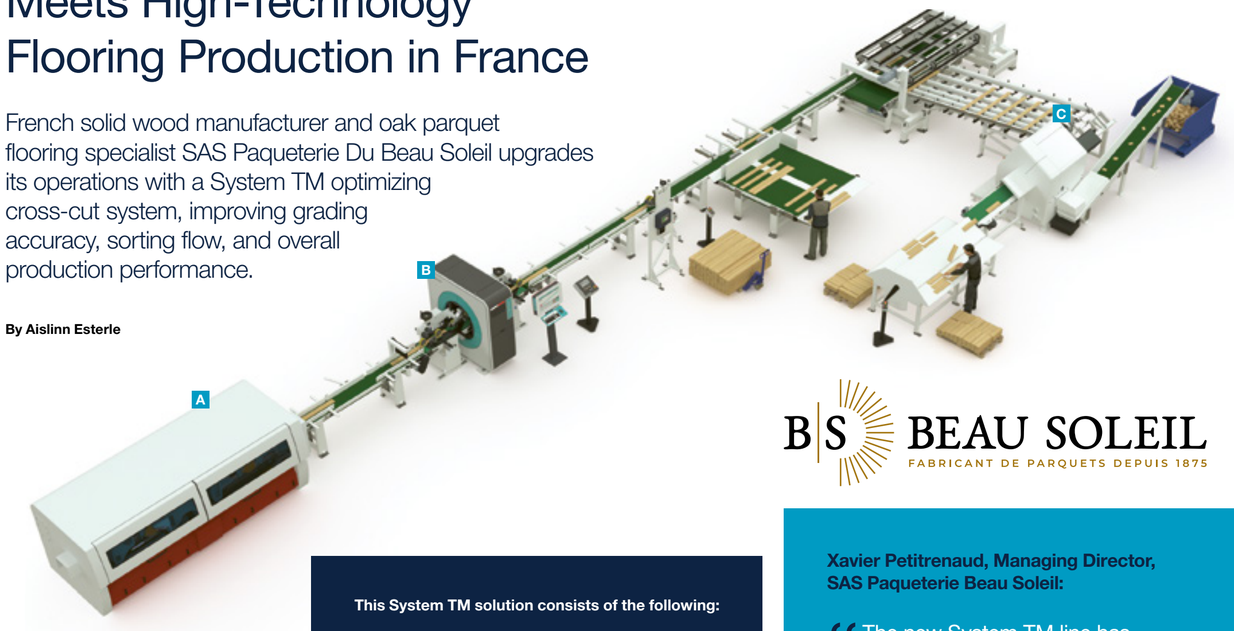
Allan Them, Area Sales Manager, System TM:

"Efficient material use and waste reduction are key drivers in modern manufacturing. Our systems help customers like Kjell & Co achieve these goals without compromising on product quality or delivery timelines."

Century-Old Craftsmanship
Meets High-Technology Flooring Production in France

French solid wood manufacturer and oak parquet flooring specialist SAS Paqueterie Du Beau Soleil upgrades its operations with a System TM optimizing cross-cut system, improving grading accuracy, sorting flow, and overall production performance.

By Aislinn Esterle



Data for the line:

Production:	Flooring
Wood species:	Hardwood
Number of operators:	2
Country:	France

This System TM solution consists of the following:

- **A** **MOULDER**
- **B** **MiCROTEC WOODEYE AI SCANNER**
  Detection of defects and quality before cross-cutting
- **C** **OPTI-KAP 3103**
  Optimizing cross-cut saw

Xavier Petitrenaud, Managing Director, SAS Paqueterie Beau Soleil:

"The new System TM line has transformed our production flow, enabling us to utilize our wood more efficiently and respond more quickly to specific quality demands."

This strategic investment blends Beau Soleil's century-old craftsmanship with cutting-edge automation and precision-cutting technology. It highlights the company's commitment to quality and innovation. "Our technology is not only about high production, but also about delivering the precision and quality that craftsmen demand," says Peter Simonsen, System TM's Area Sales Manager. By integrating these modern production solutions, Beau Soleil improves efficiency while maintaining the exceptional standards that have defined its products for generations.

A Heritage of Excellence and Vision

Founded in 1875 in Nièvre, France's prime oak-producing region, Beau Soleil has flourished as a family-run business for three generations, successfully navigating industrial transformations and historical challenges. When the family succession ended in the 1980s, Maurice Petitrenaud and his sons bought the company, renaming it Beau Soleil to honor its heritage and refocusing on producing specialized parquet floors.

While many competitors shifted manufacturing to Eastern Europe and Asia during the 1990s and 2000s, Beau Soleil chose to modernize its factory with specialized processes.

"This installation proves that even traditional manufacturers can successfully integrate modern automation to stay competitive and responsive to market needs," says Fabien Iffrig from Eurotecpro, System TM's sales partner in France. Thanks to this bold approach, Beau Soleil continues to preserve its artisanal traditions, maintain exceptional quality, and swiftly adapt to evolving market demands.

Advanced Production Flow

The new System TM line is built around the MiCROTEC Woodeye AI scanner, which plays a central role in optimizing and grading the dryed oak wood with planed surfaces and tongue-and-groove profiles that is used to produce high-quality hardwood flooring components here. After the scanner's precise evaluation, the Opti-Kap 3103 cross-cut saw cuts the workpieces to ensure uniformity and maximum yield. Immediately after exiting the moulding machine, the profiled workpieces speed up to create a gap before entering the MiCROTEC Woodeye scanner. This intelligent scanner detects defects and classifies each piece by quality, optimizing the wood according to predefined parameters. Subsequently, a printer marks each workpiece with quality information and length, ensuring full traceability.

"The new System TM line has transformed our production flow, enabling us to utilize our wood more efficiently and respond more quickly to specific quality demands," says Xavier Petitrenaud, Managing Director at SAS Paqueterie Du Beau Soleil.

Optimized Sorting and Cutting

The sorting system includes two primary ejectors that manage 70-80% of the volume and are dedicated to sorting various quality grades, where only the quality is required. An operator will carefully stack these selected workpieces.

A sweeper unit at the end of the belt handles the remaining 20-30% of the volume, sorting pieces that require both printing and cutting. The workpieces are sent to the Opti-Kap 3103 saw, which precisely cuts them based on defect detection, optimization criteria, length, and grade.

The cut components are discharged onto a tiltable chute that enables operators to sort the cut material and stack in the right qualities. Short waste is removed within the saw unit and transported via a scrap conveyor to a container, ensuring clean and efficient waste management.

Craftsmanship Meets Modern Efficiency

This System TM grading and sorting line is a prime example of how advanced technology can support producers who prioritize craftsmanship over capacity. While System TM is best known for high-capacity lines, this installation proves that our technology can offer flexibility to companies that prioritize quality over volume. Peter Simonsen says, "The Opti-Kap saw's cutting accuracy, in combination with the MiCROTEC scanner's intelligence, allows Beau Soleil to optimize wood use within their craftsmanship standards."

Tradition Strengthened by Innovation

By investing in System TM's innovative production line, SAS Paqueterie Du Beau Soleil has reinforced its position as a leading producer of high-quality oak parquet floors. This successful combination of centuries-old craftsmanship and state-of-the-art technology will ensure their continued success in a competitive market, proving that tradition and modernity can not only coexist, but flourish together.

In 1982, Maurice Petitrenaud and his sons renamed the company "Beau Soleil," after the local place name where it stands.

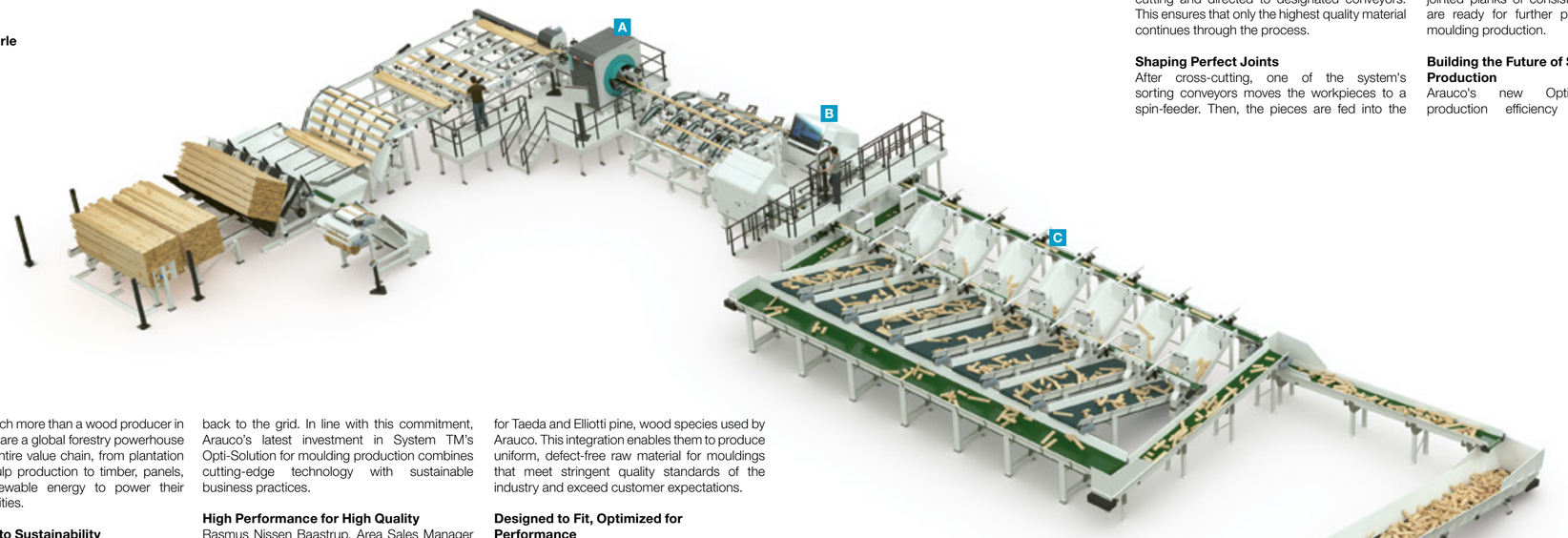
When modern wood processing equipment meets craftsmanship.

Precision Meets Sustainability:

Arauco Elevates Production with Full System TM Opti-Solution

With advanced cross-cutting and finger-jointing technology, Arauco transforms raw pine into premium, sustainable moulding components. The Argentinian sawmill and wood processor demonstrates a strong commitment to responsible forestry and continuous innovation.

By Aislinn Esterle



Arauco is much more than a wood producer in Argentina; they are a global forestry powerhouse spanning the entire value chain, from plantation forestry and pulp production to timber, panels, and even renewable energy to power their production facilities.

Commitment to Sustainability

With over 3,500 customers worldwide, Arauco's mission is clear: to provide wood solutions that enhance living environments for millions around the globe. At the heart lies their principle of "Renewables for a Better Life," championing sustainability, ethical production, and industry-leading standards. Arauco is committed to managing 1.6 million hectares of proprietary forest plantations and conserving 327,000 hectares of native forest in South America.

The company is also leading the way in water optimization and biomass energy production to power its operations and feed surplus energy back to the grid. In line with this commitment, Arauco's latest investment in System TM's Opti-Solution for moulding production combines cutting-edge technology with sustainable business practices.

High Performance for High Quality

Rasmus Nissen Baastrup, Area Sales Manager at System TM, highlights, "In today's market, delivering consistent, defect-free products efficiently is essential. Our Opti-Solution was designed to meet these demands while supporting Arauco's commitment to responsible forestry." Arauco chose to partner with System TM because they needed a production line that would optimize both raw material use and workforce efficiency while delivering superior finger-jointed components for their moulding production.

System TM's Opti-Solution combines a high-speed, precision cross-cutting line with an advanced horizontal finger-jointing line optimized for Taeda and Elliotti pine, wood species used by Arauco. This integration enables them to produce uniform, defect-free raw material for mouldings that meet stringent quality standards of the industry and exceed customer expectations.

Designed to Fit, Optimized for Performance

System TM's approach prioritizes the seamless integration of new machinery into existing plant spaces and production goals. "Every new project has unique challenges," notes Rasmus Baastrup. "However, our customer-oriented approach ensured that the solution we designed with Arauco and our local sales partner, Grupo Linares, fits seamlessly into the existing operations, optimizing efficiency without disruption." At the heart of this system is the Opti-Kap 5103, System TM's fastest cross-cut saw, combined with MiCROTEC's Goldeneye quality scanner.

The workpieces arrive via an existing tilt hoist and are transported to the Goldeneye scanner, which then scans them to detect knots, cracks, and other imperfections. Using this data, the system calculates optimal cutting patterns that maximize yield and minimize waste. This transforms potentially discarded wood into valuable components for further production.

Then, the workpieces enter a stud carrier and are evenly distributed to two cross-cut saws via a Y-configuration. Smaller defect pieces are removed directly in the saws, while larger defect pieces are sorted by pneumatic kickers after cutting and directed to designated conveyors. This ensures that only the highest quality material continues through the process.

Shaping Perfect Joints

After cross-cutting, one of the system's sorting conveyors moves the workpieces to a spin-feeder. Then, the pieces are fed into the Opti-Joint H-200 horizontal finger-jointing line. Laser sensors measure the squareness of the blocks, which are then aligned lengthwise to optimize the amount of material removed before milling the finger joints.

The blocks then pass through twin shaper stations that create the finger profiles. Next, glue is applied to one end. A luminescent additive in the adhesive enables the glue control system to verify the accuracy of the application and prevent defective joints. The process concludes with pre-alignment, pressing, and trimming via a multi-head cross-cut saw. Ultimately, finger-jointed planks of consistent length and quality are ready for further processing in Arauco's moulding production.

Building the Future of Sustainable Production

Arauco's new Opti-Solution enhances production efficiency and quality while supporting environmental stewardship. This partnership strengthens Arauco's commitment to responsible forestry by optimizing raw material utilization, ensuring product consistency, and minimizing waste. It shows how advanced timber processing technology can boost output, advance sustainability goals, and align with corporate values.

As a result, Arauco solidifies its role as a global leader in wood products by delivering on its promise to build better living spaces through innovation and responsibility. "System TM's technology is more than just equipment," Rasmus Baastrup emphasizes. "Our equipment is a driving force behind Arauco's vision for a greener, more efficient future in wood manufacturing."

Thanks to the strong partnership between Grupo Linares and System TM in South America, Arauco benefits from local expertise and ongoing support, reinforcing its leadership in sustainable wood manufacturing across the region.

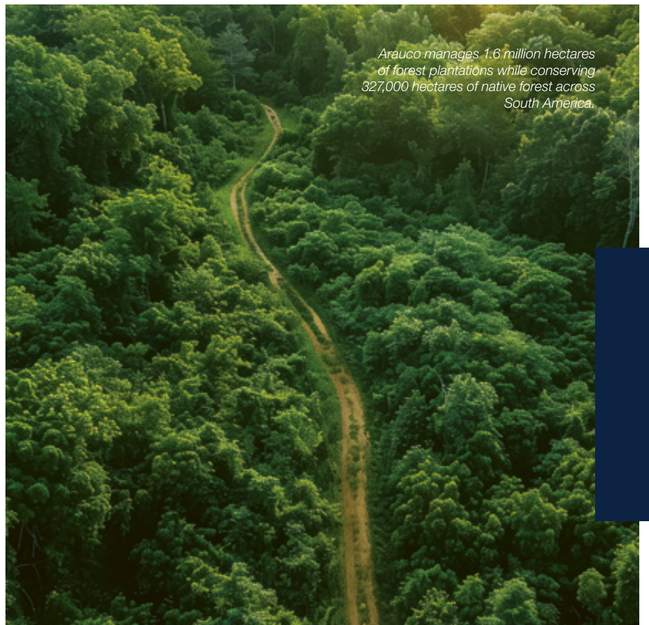
Rasmus Nissen Baastrup, Area Sales Manager, System TM:

"Our equipment is a driving force behind Arauco's vision for a greener, more efficient future in wood manufacturing."

Data for the line:

Production:	Sawmill
Wood species:	Softwood
Number of operators:	
Country:	Argentina

With their new System TM equipment, Arauco produces finger-jointed planks with consistent length and quality, ready for moulding production.



Arauco manages 1.6 million hectares of forest plantations while conserving 327,000 hectares of native forest across South America.

This System TM solution consists of the following:

- **A** **MiCROTEC GOLDENEYE SCANNER** Detection of defects and quality before cross-cutting
- **B** **OPTI-KAP 5103** Optimizing cross-cut saws
- **C** **SORTING BELTS**
- **D** **OPTI-FEED SPIN-FEEDER** Automatic workpiece alignment
- **E** **OPTI-JOINT H-220** Horizontal finger-jointer
- **F** **PRESS UNIT**
- **G** **MULTI-HEAD CROSS-CUT SAW**

Innovative Partnership Accelerates Finger-Jointing Performance
for CLT- and GLT-Production

System TM has once again joined forces with Bosch Rexroth to develop a state-of-the-art long-length finger-jointing press, designed to deliver increased capacity and precision, especially for CLT- and GLT-production lines.

By Aislinn Esterle

Søren Lindhardt, Head of Electrical and Mechanical Engineering, System TM:

„ Our partnership with Bosch Rexroth has delivered scalable solutions, outstanding collaboration, and fast, qualified support. We always feel in good hands. ”

At System TM, innovation and customization are at the heart of everything we do. We are proud to introduce a major development that embodies these values: our brand-new finger-jointing press. It is currently featured in two state-of-the-art production lines for cross-laminated timber (CLT) and glue-laminated timber (GLT) in North America. These lines are scheduled to begin operating later in 2026, marking a significant step forward in expanding our global market position and meeting the growing demand for engineered wood products.

Tailored Solutions for Complex Challenges

Our greatest strength lies in developing solutions that are tailored down to the last detail to our customers' individual requirements. This new press is no exception. It has been designed from the ground up for the highest precision and maximum flexibility, setting new standards in high-performance timber processing: greater capacity, greater control, greater efficiency. To meet the demanding needs of CLT and GLT production, we needed a system capable of dynamic speed and torque control. A capability that goes beyond traditional hydraulic or standard AC motor solutions. That's why we turned to our long-standing innovation partner, Bosch Rexroth. Their ctrlX AUTOMATION platform delivers exactly the power, precision, and flexibility we need for the next generation of our presses – and turns a visionary idea into a high-performance reality.

A Partnership Driving Innovation

By collaborating closely with Bosch Rexroth's teams in Denmark and Germany, we were able to rethink conventional approaches and integrate advanced technology into our press. Their ctrlX CORE system is equipped with an integrated PLC, motion synchronization, and modular servo drives. This allowed us to build a press that operates continuously at high speeds with exceptional precision and reliability.

As Thomas Jonstrup Thomsen, Electrical Engineer at System TM, points out, "The ability to synchronize multiple axes and use ready-made functional blocks for the flying saw within the ctrlX system, for example, has been a game changer in our development process."

Bosch Rexroth's application experts contributed valuable insights from other industries, such as printing and metalworking. These insights helped us introduce new motion control functions that improve efficiency and product quality.

High-Powered Precision: Servo Motors and Pressure Capabilities

On the whole line, there are no less than 62 Bosch Rexroth servo motors built in. The press alone is equipped with 27 motors that enable it to continuously apply a pressure of 6N/mm^2 on the workpieces. This high level of precision ensures consistently strong bonds and structural integrity in every piece produced. The press operates at speeds of up to 160 meters per minute, while the flying saw can execute an impressive 15 cuts per minute. At maximum speed, assuming optimal workpiece dimension, the press applies a continuous pressure of approximately 4,200 kilograms to press the finger joints and create structurally exceptional workpieces of potentially infinite length. To put this into perspective, that's roughly equivalent to the weight of two of our service vans pressing down on the wood. Alternatively, imagine three small cars, eight polar bears or a fully grown, slightly overweight, white rhino bull.

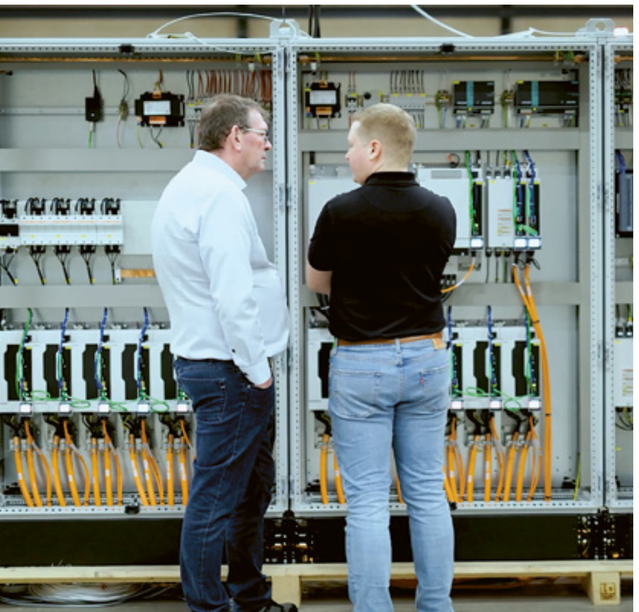
Reducing the speed to 85 meters per minute results in a press force of up to 8,400 kilograms, equivalent to six small cars, sixteen polar bears, or one Tyrannosaurus rex. The extraordinary capability of this press to exert continuous high pressure is a testament to the system's robustness and reliability.

Looking Ahead: Building the Future of Wood Construction

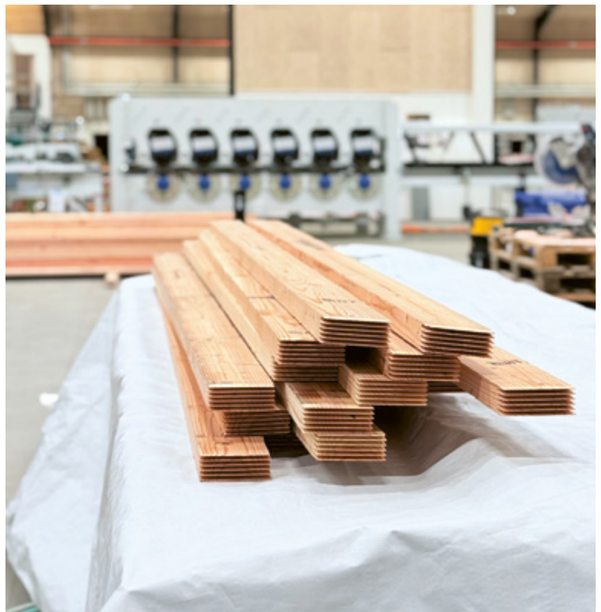
Our new finger-jointing press, which seamlessly integrates into the Opti-Joint horizontal and vertical systems, is designed to produce the long, high-quality workpieces essential for CLT and GLT manufacturing. This innovation exemplifies our commitment to advancing engineered wood technologies while promoting sustainability.

Søren Lindhardt, head of Electrical and Mechanical Engineering at System TM, remarks, "Our partnership with Bosch Rexroth has delivered scalable solutions, outstanding collaboration, and fast, qualified support. We always feel in good hands." Together, we are pushing the boundaries of engineered wood production – building not just machines, but the future of living spaces.

Erik Werner Jensen, Sales Engineer at Bosch Rexroth (left) and Thomas Jonstrup Thomsen, Electrical Engineer at System TM (right) were both part of the development teams working on the new finger-jointing press.



The new continuous press is currently in use within Opti Joint H-L horizontal finger jointing lines in the U.S., enabling the production of long finger jointed components for CLT and GLT manufacturing.



Bosch Rexroth's ctrlX drives provide precise, high-speed motion control within the modular ctrlX AUTOMATION platform.

rexroth
A Bosch Company

Scan me to watch the video about the partnership beteween System TM and Bosch Rexroth

The new continuous finger jointing press is equipped with 27 Bosch Rexroth servo motors that deliver dynamic speed and torque, ensuring precise pressure control throughout the pressing process.

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Sales Team Update

We are excited to introduce Peter and Rasmus as our new Area Sales Managers

DACH and Italy

Peter Braun is the latest member of our sales team, covering Germany, Austria, Switzerland, and Italy.
Based in Germany and a native German speaker, Peter brings valuable local insight and flexibility to connect with customers across the region. With extensive industry experience, Peter is ready to support our customers and collaborate closely with Area Sales Manager Per Juul Jensen.

Do not hesitate to contact Peter:

Peter Braun
Area Sales Manager
Germany, Austria,
Switzerland & Italy

E-mail: pbr@systemtm.com
Mobile: +49 173 1642872
Phone: +45 86 54 33 55

West Canada and USA

Additionally, we would like to introduce Rasmus Hvid Olesen as our Area Sales Manager for West Canada and the USA. Rasmus plays a key role in managing and expanding our presence in North America.
Rasmus works closely with HOMAG Canada to focus on developing new business opportunities and strengthening relationships with existing customers, ensuring that we deliver the best solutions for our clients.

Do not hesitate to contact Rasmus:

Rasmus Hvid Olesen
Area Sales Manager
West Canada & USA

E-mail: rol@systemtm.com
Mobile: +45 41 87 97 78
Phone: +45 86 54 33 55

Together With Our Partners Eurotecpro and MiCROTEC

we sponsored **Scierie Moulin** for their participation in the 2026 **Rallye Monte-Carlo Histories.**

Racing Ahead in Solid Wood with a Winning Team

The New System TM Logos are Finally Being Installed

Following our integration into the HOMAG Group

But don't worry - for you as a System TM customer, everything remains the same.

The entire team at Mass Timber Conference in Portland, Oregon.

Visit System TM at the Following Exhibitions:

Trä & Teknik, Gothenburg, Sweden	August 25 – 27, 2026
IWF, Atlanta, GA, USA	August 25 – 28, 2026
Weinmann Treff, St. Johan-Losingen, Germany	November 11-12, 2026
LIGNA, Hannover, Germany	May 10 – 14, 2027

HC | SYSTEM TM

optimization of staff and wood resources

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Or scan the QR code