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Derome Rises Above Competition Thanks to System TM Line with Special Features

With Derome's latest investment in a System TM cross-cut line, the company efficiently produce prefabricated tongue and groove panels and at the same time stay competitive with substitute products from other industries that offer similar benefits as Derome's products.

Read the full story on page 2



J.M. Champeau Inc. Extracts the Best of the Best from Raw Material Thanks to System TM Solution

While high volume and capacity production are two of System TM's most common customer needs, that wasn't exactly the case for this System TM customer.

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Optimizing the hardwood veneer

System TM launches new flexible stacking machine Opti-Stack 9000

Read the full story on page 4-5



production at Aviva SRL in Romania

Aviva SRL investment in an optimizing crosscut line provides high wood usage, production capacity, and reduced the company's labor costs to a great extent.

Read the full story on page 7



Stacking of multiple length

Stacking

with

sticks

Stacking with double even end Zigzag stacking Brick stacking Stacking of long length



optimization of staff and wood resources



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Personal statement by Mr. Per Andersson, **Development Manager, Derome:**

"System TM come across as a very professional company. It was a great advantage that the line had been tested prior to delivery, as this significantly speed up the commissioning process."

This System TM solution consists of the following:

- An automated feeding system, Opti-Feed 6000 Vack
- A Finscan cross-scanner
- Material handling
- One optimizing cross-cut saw, Opti-Kap 5103
- An automated stacking system, Opti-Stack 6000



With Derome's latest investment in a System TM cross-cut line, the company hopes to efficiently produce prefabricated tongue and groove panels and at the same time stay competitive with substitute products from other industries that offer similar benefits as Derome's products. Derome's optimizing Opti-Kap 5103 line is future-proof and offers special features to enable the simultaneous production of two product types.

Securing long-term success

for fast on-site assembly. Derome's boards offer many added value benefits compared synthetic material roofing underlayment. System TM. They also make it easier for houses to take in and let out air and absorb and release Technical description moisture.

the Derome Group has more than 2200 8 billion.

as Derome Timber, has five sawmills that produce a wide range of wood products for both the Swedish market and numerous turned into prefabricated tongue and groove export markets. The new Opti-Kap 5103 panels. The boards that move up to the cross-cut line is situated at Derome Timber's Opti-Kap 5103 cross-cut saw are intended for sawmill in Veddige, Sweden.

A line with special features

Derome necessitated the need to explore used to cut the boards with maximum wood Securing long-term success is about how smart ways to design the Opti-Kap 5103 you make a product better than that of your cross-cut line. Therefore, the line is packed onto sorting belt conveyors where they are competitors. Derome Timber manufactures with special features. "I was impressed with either transported to a Weldum line or to prefabricated tongue and groove panels the technical capacity which was present in an automated Opti-Stack 6000 stacker after Derome's entire organization. Their people which the boards reach a manual packing are heavily involved with technology and station. In fact, the Opti-Stack 6000 stacker to substitute products. For instance, they they dove deep into technical details before is divided into two stackers which makes it are environmentally friendly and better for choosing this System TM solution", says Allan possible to either stack short and medium indoor climates than plastic, plywood, and Them, Area Sales Manager for Scandinavia at components or merge the two stackers

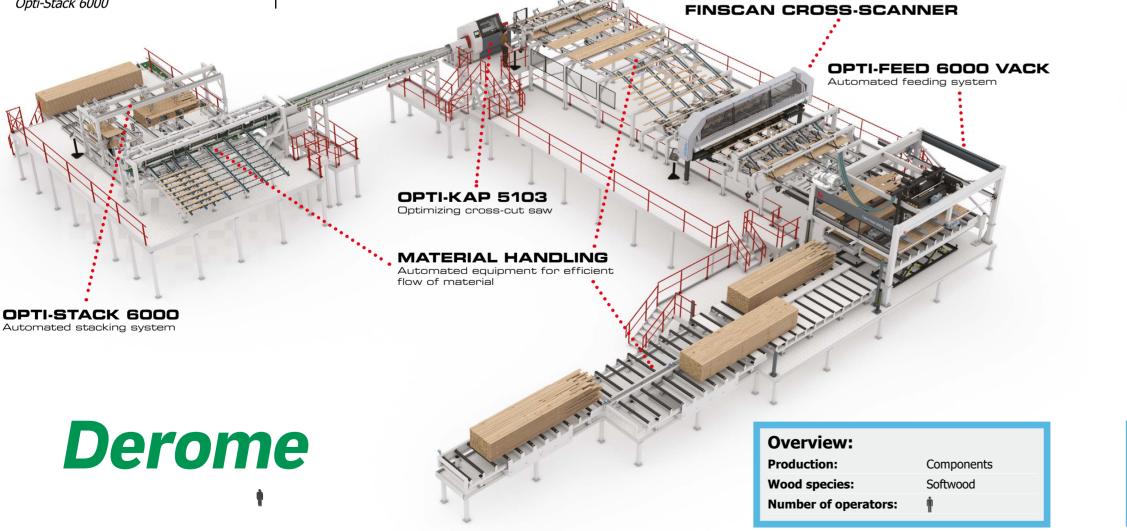
Vack, de-stacks layers of boards, after which art scanning, optimization, and chopping, A business in continuous development the boards are proportioned one by one Derome now extracts higher yield from raw The Derome Group is one of Sweden's through a Finscan cross-scanner (now owned largest family-owned wood groups dating by MiCROTEC). The subsequent data from In accordance with Derome's request, the back to 1946. Since then, the family-owned the scanner determines where the boards go vacuum feeding system (Opti-Feed 6000 business has expanded greatly. Today, next - either they move down to a system Vack) is designed to de-stack layers of underneath or up to an Opti-Kap 5103 crossemployees and an annual turnover of SEK cut saw. Thanks to this special feature, or in other words the flexibility of the distribution the scanner, the boards are also sorted out One of Derome Group's divisions, also known process, Derome can produce two types of products simultaneously.

The boards that move down are eventually surplus tongue and groove panels which are eventually turned into other products later on. As the boards move up to the Opti-Kap 5103 Being a highly knowledgeable company, cross-cut saw, the data from the scanner is

utilization. Then, they exit the Opti-Kap 5103 together to stack long components. This is another special feature in this line.

A vacuum feeding system, Opti-Feed 6000 Due to the System TM line's state-of-thematerial and uses wood to the fullest. boards at a higher speed than the Opti-Feed 6000 Vack normally de-stacks. After faster than usual since a huge number of boards are processed by the scanner per minute. As a result, Derome now has a higher production capacity which helps the company stay competitive.

Champeau



J.M. Champeau Inc. Extracts the Best of the Best from Raw Material Thanks to System TM Solution

box.

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While high volume and capacity production are two of System TM's most common customer needs, that wasn't exactly the case for this System TM customer. For Champeau, it was more about the ability to extract the crème de la crème of raw material to produce high-quality products. Champeau's new System TM line enables the company to do so in great style.

An out of the ordinary project

The Champeau project is not your typical System TM usually designs. However, when it comes to customers with unique needs, System TM is known for thinking outside the **Pushing the limits**

factories that turn planks into baseball bats, billiard cues, and drumsticks. Champeau's planks must therefore be high-end, flawless, defectfree – even their fiber orientation must be veriproducts, Champeau asked System TM to design a solution that focuses less on high volume production and more on the ability to take out the best from raw material. Champeau's new cross-cut line consists of a MiCROTEC Abandoning former production scanner and an optimizing cross-cut saw, Opti-Kap 1003. "Champeau's line also offers the opportunity to make future developments. For instance, there's a possibility of adding another Opti-Kap saw in the future to enlarge production", says Jean-Luc Croteau, Area Sales Manager of North America at System TM.

For five generations, the Champeau family an impressive range of quality products. Established in the early 1900s in Saint-Malo, Quebec, near the Canada/U.S. border, employ the latest cutting-edge technology. Champeau has over 175 employees who high-end products.

and this passion translates into Champeau's Champeau has been seeing noticeable prostandards in the industry.

After receiving recommendations from Champeau manufactures and sells planks to several System TM customers in Quebec, Champeau decided to opt for System TM/ MiCROTEC equipment. In terms of scanning, Champeau needed to detect even the tiniest of defects and details in raw material. caliber had never been carried out before, MiCROTEC pushed the limits by working out a way to provide Champeau with this capability.

methods

In Champeau's previous production line, it was difficult to achieve the highest amount of output from incoming workpieces due to the company's manual production processes. received from the Curvescan to complete the In addition, cross-cutting was very timeconsuming. "When you compare the previous pieces enter a marking station where a cut production processes with the present, there's a colossal difference, as it took a full piece by a printer. Then, workpieces move minute just to cut out defects from one work- onto an optimizing cross-cut saw, Opti-Kap has been converting choice hardwoods into piece, but we can process 50-60 workpieces 1003, which chops workpieces with high cut per minute in a normal cross-cut line", says accuracy. Before the workpieces enter the Jean-Luc Croteau. In terms of human labor, cross-cut saw, an operator can carry out a Champeau's previous line required about 10 quality inspection of the cut and grade marks Champeau's 225,000 square foot facilities operators to carefully inspect each workpiece and verify the scanner's decision. Finally, the for defects due to Champeau's strict focus on workpieces exit onto a sorting belt.

are passionate about the company's craft, **Noticeable production results**

type of project in the sense that it is not what commitment to provide the highest quality duction results since the installation of the line. When visiting Champeau, Mr. Charles Giguere stated that the line had been operating for a few weeks only, but already performing quite well. They were very pleased with the installation, start-up all being on time and the quality of the equipment. Champeau has a great reputation in the industry to have high end equipment and successful projects. It is a very respected business, and they are very fied. In order to fabricate these high-quality Although hardwood scanning of such high proud of their realisation. System TM was a perfect match for this successful philosophy.

Technical description

The workpieces enter a MiCROTEC transversal Curvescan which examines their bow, spring, twist, and cup. Then, a MiCROTEC Goldeneye 502 scanner with X-ray, camera and improved crack detection option scans the workpieces and uses the information final optimization process. Next, the workmark and grade is printed onto each work-

OPTI-KAP 1003

otimizing cross-cut saws





Products by Champeau, Canada.





THE HARDWOOD COMPANY

This System TM solution consists of the following:

- A MiCROTEC Curvescanner
- A MiCROTEC Goldeneye 502 scanner
- A marking station

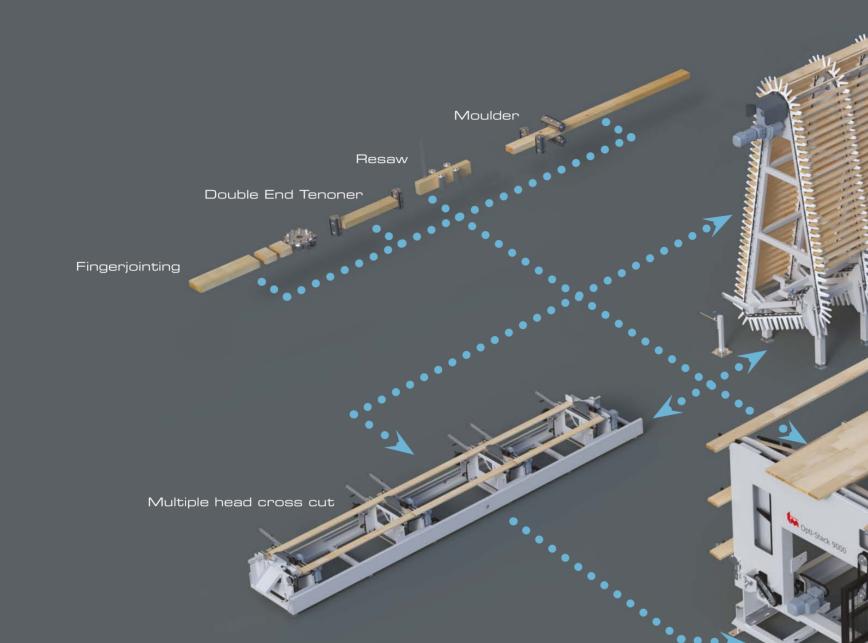
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- Material handling
- One optimizing cross-cut saw, Opti-Kap 1003
- Sorting belts



System TM launches new flexible stacking machine Opti-Stack 9000 and expands current product portfolio



Per Jørgensen, CSO, System TM.



Personal statement by << Mr. Per Jørgensen, CSO, System TM:

"With the development of the Opti-Stack 9000, we have expanded our product portfolio in order to keep up with the demand from the industry. Furthermore, the Opti-Stack 9000 matches, and is easy to combine with, our existing product portfolio, when customizing projects for our customers"

Opti-Stack 9000

capacity without any use of manpower, appearance for the next destination. Opti-Stack 9000, that matches our and the Opti-Stack 9000 existing product portfolio.

The design

9000 is very flexible, being able to be purchasing or afterwards.

extended to a machine able to stack **Stacking options** The solid wood industry's demand very long or multiple workpieces and E Among the standard options for for more material handling automation, stacking in many different stacking the stacking machine are brick or zigutilizing the main machines' maximum patterns to fit the demands of the pack zag stacking, stick placing for pack solutions, our ability to integrate and

is increasing in all aspects worldwide. The stacking machine is also designed even end positions of either single handling automation has to be perfectly combined with other workpieces or workpieces cross-cut into always been a very important product machine units from System TM. As multiple lengths, turning devices - just to segment for System TM. To be sure to an example, it is very simple to add a mention some of the opportunities. Ac- this aim. To ensure a continuous high be able to offer the right solution for the multi-head cross-cutting or drying unit, cording to your preferences, the options capacity throughout each workday, it application, System TM have developed in-between main machines such as and the stacking machine can either be is important to integrate all equipment and designed a new stacking machine, moulders, finger jointing machines etc. standard or customized.

The Opti-Stack 9000 stacking machine **Flexible solutions** has a wide range of standard options **—** One of the main focuses points in that easily can be integrated into the developing process has been to The base design of the Opti-Stack the stacking machine, either when design a very flexible, yet inexpensive,

stabilizing or drying processes, multiple combine different machine modules,

machine, which can be combined to fit

the stacking application in connection with different main machines in the best possible manner. Due to our software and, not least, our experience with handling workpieces in a continuous flow, it has been possible to achieve surrounding the main machine.



System TM's production facilities in Odder, Denmark.



Drying tower

Opti-Stack 9000

stacking

Zigzag stacking

Stacking with double even end

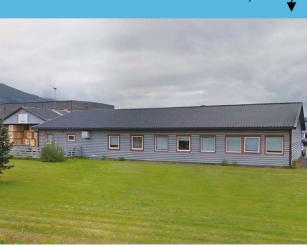
Stacking with sticks

Stacking of multiple length

Opti-Stack 9000

Stacking of long length

Trollheim's production facilities in Surnadal, Norway.



Lars Inge Kvande, Managing Director at Trollheim:

"Trollheim has been doing business with **System TM since** the beginning of the 1990s, and we have been and are very pleased with their equipment and after-sales services. The installation and commissioning of the new Opti-Kap 3001 line went smoothly, and the line was up and running after a short "Corona break". Thank you - and especially Area Sales Manager, great cooperation."

Increased production capacity at Trollheim with new **Opti-Kap 3001 cross-cut line**

After having experienced high satisfaction with System TM's products and services, Trollheim recently replaced its former System TM cross-cut line with a new and similar line from System TM. This line enables Trollheim to make its business fit for the future and gain higher capacity and wood utilization.

Trollheim

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and services to both companies and private individuals.

mission by helping people on the edge of encouraged Trollheim to invest in a new line the labour market back to work through a from System TM. combination of work experience and training, but also creates permanent adapted workplaces when needed. Trollheim is owned by work with – both in terms of sale and afterwhile at the same time contributing to an important social mission.

One of the services Trollheim have specialized supplier for the replacement of the existing **The Opti-Kap 3001 line** in, is cross-cut components for the solid wood cross-cut line. industry. Particularly components or final containers for the the packaging industry are Utilization of old equipment. an important business segment of Trollheim.

Long-term relationship

System TM dates back as far as the early nineties when Trollheim purchased the first machine from System TM. Over the years and until today, the orders placed with System a minor part of the old line without loosing the Opti-Kap 3001 cross-cutting saw. The TM by Trollheim have comprised several line performance, we once again won the machines and cross-cut lines.

services and the performance of the Area Sales Manager at System TM. technologies delivered by System TM, especially the cross-cut line has performed a very important task over the years. How- Benefits

out at some point. This seemed to be the lines. As a result, the new Opti-Kap 3001 Trollheim delivers a wide range of products case for the cross-cut line at Trollheim. Although it had been running at full speed since the beginning of the 90s with a saw up-

> From the installation of the first machine until with the quality of the equipment made it very easy to choose this company as the

To accommodate Trollheim's request for a new line, including high capacity, inexpensive and quick payback time, a minor part of The relationship between Trollheim and Trollheim's previous former System TM crosscut line was reused and integrated into the new cross-cut line from System TM.

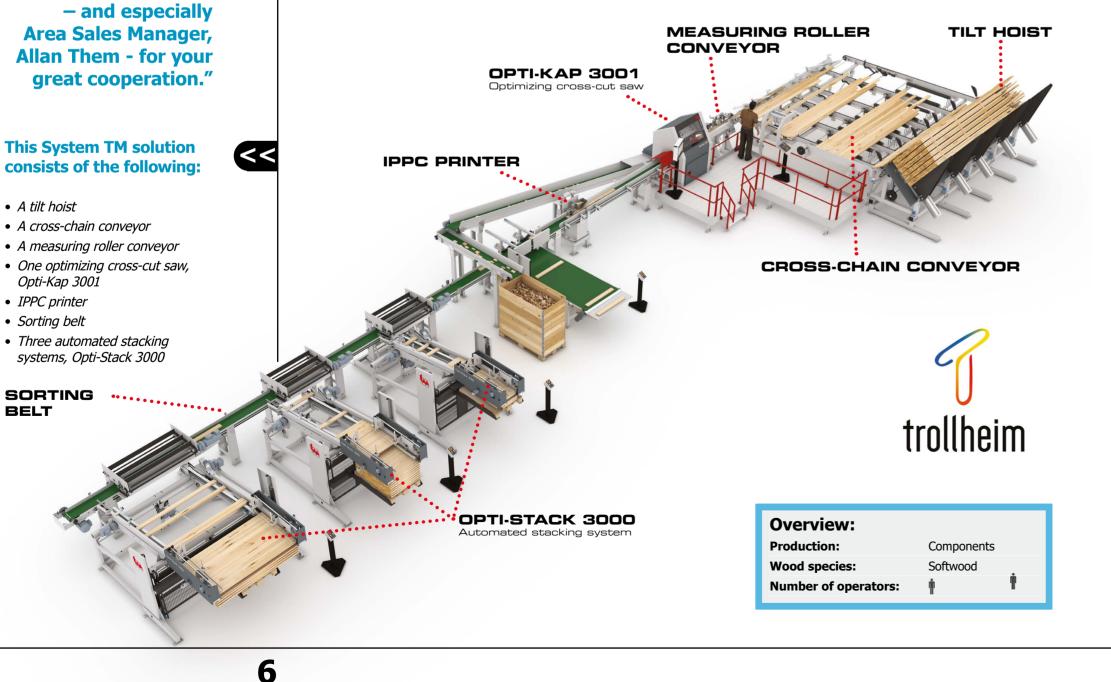
"With this creative approach, integrating confidence of Trollheim to be the next supplier Trollheim has been very happy with the *of their new cross-cut line*", says Allan Them,

rigorously, all machinery is bound to wear is the driving concept behind all System TM stacking machines, Opti-Stack 3000.

cross-cut line generates more capacity and best lumber utilization with the same manpower needed to operate the line. The The company performs an important social grade in 2001, its rising maintenance costs increased capacity was needed to support a growing customer base demands for crosscut components.

Based on the low maintenance costs and today, System TM have been outstanding to high capacity of the new Opti-Kap 3001 cross-cut line, the future looks bright and five county municipalities. Buying goods from sale services. Especially the quality of the safe for Trollheim, having future-proofed its Trollheim means getting, good quality items, after-sales services from System TM together business area of cross-cutting components for the solid wood industry.

The Opti-Kap 3001 line starts with a tilt hoist and cross-chain conveyor integrating Trollheim's System TM equipment from the old line. The former equipment has been provided with an updated control system that meets today's CE safety requirements, forming an integrated whole. After this, the new System TM equipment comes in, starting with a measuring roller conveyor, which measures and transports the workpieces to cross-cut saw optimizes and cuts the workpieces into components lengths according to the demands from Trollheim's customers. After the Opti-Kap 3001 cross-cut saw, waste and residue move along a sorting belt, and are swept off into a waste container. Useful components are IPPC marked and finally ever, even if maintenance is carried out Optimization of staff and wood resources sorted and stacked by three fully automatic



Optimizing the hardwood veneer production at Aviva SRL in Romania

Aviva SRL investment in an optimizing cross-cut line provides high wood usage, production capacity, and reduced the company's labor costs to a great extent.

Aviva SRL

headquarter located in the northern part of a cross cutting solution. Romania

Aviva was established in year 2000 and today The solutions partner for IKEA.

Contact to System TM

industry but also by visiting colleagues who With the installation of the optimizing facilities.

by System TM and Aviva therefor contacted according to the optimizing results for best

and are a very important sub supplier and cross cutting very thin veneer into fix length components for their engineered wood furniture. Before the supply of the crosscutting line from System TM, the processes The equipment of System TM is very well The general manager Mr. Boaz Nevo and of grading and cross cutting were done Mr. Nial Keane owners of Aviva had through manually and Aviva wanted to minimize the introduced to the System TM technologies. material was utilized in the best possible Not only by talking to colleagues from the manner with an extremely high capacity.

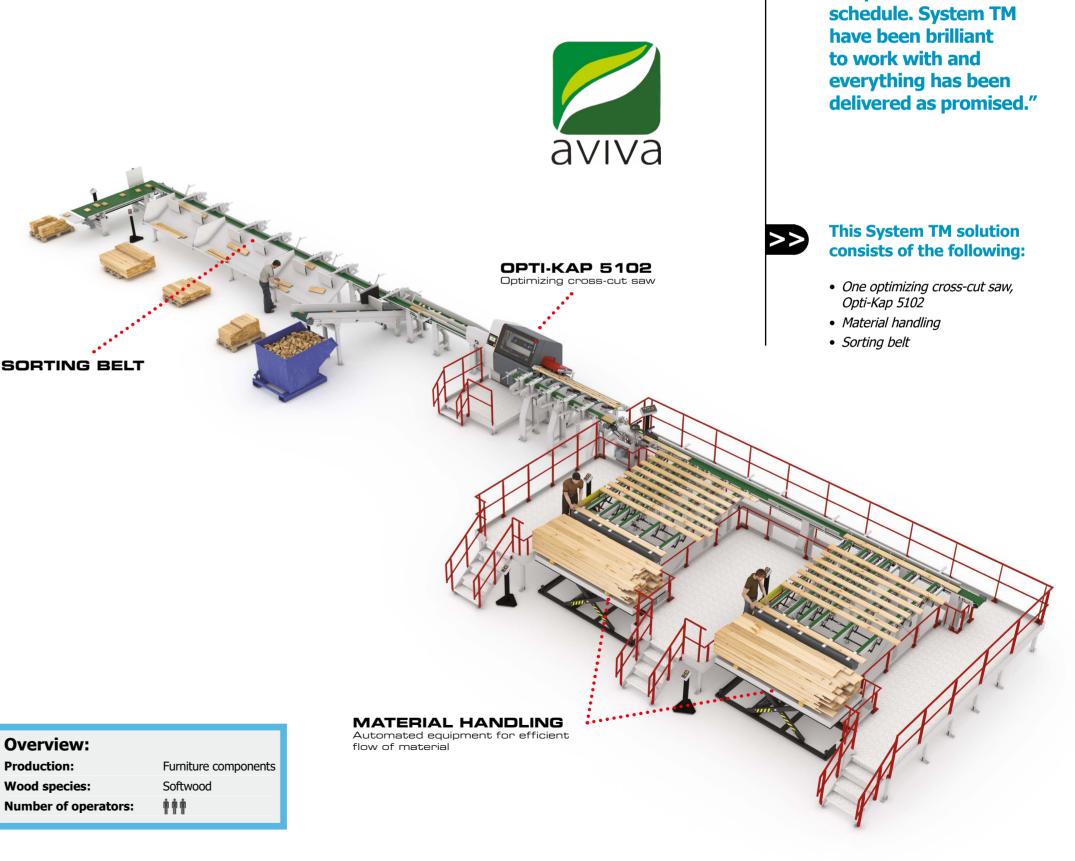
already had System TM equipment at their cross-cut line it is now possible to qual-The feedback from the colleagues where placed by operators and cross-cut fix length are very happy about the partnership. very positive related to the services supplied components by saw model Opti-Kap 5102

Aviva is a private owned company with the System TM for further investigation related to utilization of the raw material. After the crosscut saw, the workpieces are automatically sorted in regarding to length and qualities. Due to the very thin veneer, the cross-cutting the company consist of two large furniture 📕 The cross-cutting project was not a saw model Opti-Kap 5102 was customized plants, including more than 2000 employees. standard solution. Aviva wanted to automate together with the material handling to be Aviva manufacture a wide range of furniture's the cross-cutting processes of grading and able to handle veneer with a minimum thickness of 3 millimeter.

Return on investment

engineer and customized, hence capable of handling the thin veneer in the production of their network in the furniture industry been labor cost and wanted to make sure the raw Aviva. Installing this solution has resulted in a very high wood utilization with a minimum of waste and extremely high capacity, leading to a fast return on investment.

It has been a great process designing this ity grade each workpiece with crayon mark solution together with Aviva, and System TM



Aviva SRL's production facilities in Sighetu Marmaței, Romania.





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Statement by customer:

"We found the organization of System TM to be extremely professional and well organized. The installation of the equipment has been completed regarding the promised time



Visit System TM at the following exhibitions:

NWFA Expo, Baltimore, MD, USA Trä & Teknik, Göteborg, Sweden NHLA, Florida, USA LIGNA 2021, Hannover, Germany April 28 – 30, 2021 August 24 – 27, 2021 September 22 – 24, 2021 New date September 27 – October 1, 2021

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celebrates 40 years in business

Microtec and System TM have been very close business partners for almost 10 years, and this partnership has been a pleasure for System TM from day one.

Already from the beginning of our partnership, we quickly realized we had the same strategy approach to our end customers. We both wanted to be the number one supplier of high-end industrial equipment, customizing our technologies to utilize the resources of our customers in the best possible manner.

The partnership with Microtec has positioned both of our companies to be the market leader in high-end cross-cutting applications in the secondary solid wood industry - not only with regard to the technologies and performance, but also to the services we provide to our customers worldwide. Microtec and System TM have been able to combine and further develop our technologies to become the best in class in our industry.

To System TM, Microtec of today is by far the best scanner supplier in our industry, both in terms of technologies, support and collaboration.

Thanks to Federico Giudiceandrea and the management group of Microtec - you have created a state-of-the-art company in all aspects, and everyone at System TM are deeply impressed with this.

Dear Microtec, congratulations on your 40th anniversary – we are looking forward to build and grow our partnership over the next 40 years.



Arianna Giudiceandrea, Federico Giudiceandrea and Frank Jöst in front of the gift for Microtec presented by System TM on the occasion of Microtec's 40th anniversary. The name of the painting is "Bridge" and symbolizes the close collaboration between System TM and Microtec. The artist is the local-based painter Ole Grøn.

The artist is the local-based painter Ole Grøn.



System TM, a leading global provider of customized solutions for the solid wood industry

System TM offers a wide range of automated material handling systems designed to provide high production capacity, maximum wood utilization and

minimum labor costs. Our material handling systems are defined as standard system solutions and fully customized solutions designed to meet diverse customer needs.





Opti-Feed Automated feeding systems

Opti-Kap Optimizing cross-cut saws



Opti-Stack

Automated stacking systems



Opti-Joint

Automated finger jointing systems



Opti-Solution

Customized system solutions

At System TM, we use our technical expertise, longstanding experience and integrated approach to design the best solution that meets your business objectives. Please visit our website at www.systemtm.com to find a material handling solution that fits your production requirements.

System TM A/S Skovdalsvej 35, DK-8300 Odder, Denmark, Tel:+45 86 54 33 55, tm@systemtm.com, www.systemtm.com