## **Customized Cross-cut Solutions**







# Cross - cut Solutions

#### A selection of cross-cut solutions

With more than 30 years of experience and over 300 lines running worldwide, System TM is the leading manufacturer globally of customized cross-cut lines for the solid wood industry.

The success of our business is founded in our understanding of our customers' needs, while creative use of knowledge and technology forms the foundation of our core capabilities.

System TM's main focus is optimization of staff and wood resources, and our competences cover everything from line design, installation, commissioning and staff training to service and maintenance - all to make your production as efficient as possible. With our technical expertise and vast experience we can advise our customers on all technical aspects which need to be addressed before the first bolt can be tightened.

Every step of the way our experts can offer you the best support and advice in the industry.

For your inspiration this brochure includes a selection of optimizing cross-cut lines supplied by System TM to customers worldwide.

#### System TM's lines are characterized by:

- System TM's optimizing software the only software available which optimizes on both wood resources and the overall line capacity
- System TM's individual design. The lines are individually designed and manufactured, always considering the customer's production and main machines. This ensures our customers high-performance materials handling and 100% workpiece control throughout the line
- Complete hard- and software integration between all functions of the line
- Or The best return on investment
- \_\_\_\_ Low labor costs
- O High efficiency
- Automatic production changeover from one central computer





Make a wise move - let a System TM solution optimize your production to the highest level..!

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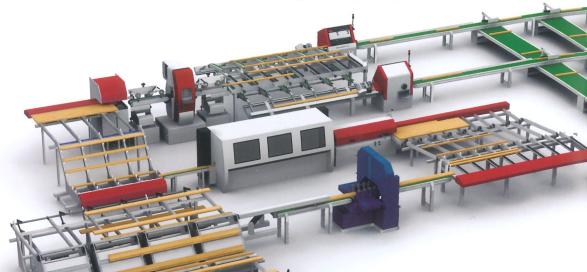
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1 x OPTI-FEED 6000

### Norwegian window manufacturer

2 x OPTI-KAP 4003











2 x OPTI-KAP 4003



5 x OPTI-STACK 3000

Production:	Window components
Wood species:	Pine and Spruce
Workpiece dimensions:	19 mm x 75 mm (3/4" x 3") 50 mm x 200 mm (2" x 8")
Number of operators:	n n n
Capacity per shift at 100% uptime:	56,500 linear meters/shift (185,000 linear feet/shift)
Capacity per shift at 80% uptime:	45,200 linear meters/shift (148,000 linear feet/shift)

Optimizing cross-cut line, consisting of Opti-Feed 6000 for optimal feeding of the band saw. The materials handling system transfers the workpieces from the band saw to the moulder, and further on to the scanner. After the scanner the workpieces are optimized by two Opti-Kap 4003 cross-cut saws.

After cross-cutting the workpieces are sorted automatically for finger jointing, and fixed lengths are stacked by five Opti-Stack 3000 stackers.

### Danish window manufacturer



15 x OPTI-STACK 3000

High capacity cross-cut line, consisting of Opti-Feed 6000, feeding a moulder and further transport to a scanner. From here the moulded pieces are optimized by Opti-Kap 4003 cross-cut saw and afterwards sorted out to fifteen Opti-Stack 3000 stackers.

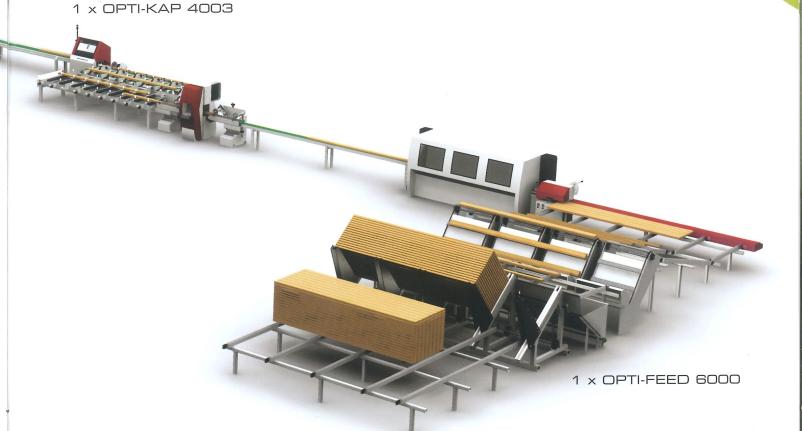


1 x OPTI-FEED 6000



1 x OPTI-KAP 4003





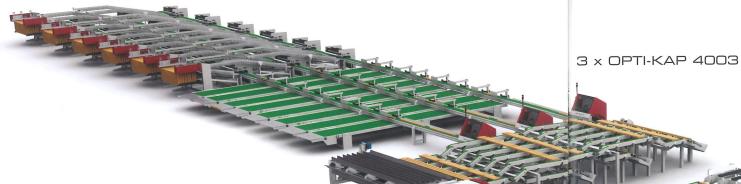




Production:	Window components
Wood species:	Pine
Workpiece dimensions:	16 mm x 76 mm (5/8" x 3")
Number of operators:	n n
Capacity per shift at 100% uptime:	31,000 linear meters/shift (102,000 linear feet/shift)
Capacity per shift at 80% uptime:	26,000 linear meters/shift (86,000 linear feet/shift)

### Polish furniture manufacturer

6 x OPTI-STACK 3000



Super cross-cut line for one of the world's largest furniture manufactures. The line consists of an Opti-Feed 6000 which feeds a moulder where the workpieces are split into lamellas. After the moulder the lamellas are stress graded and fed into the scanner. After the scanner three high capacity Opti-Kap 4003 cross-cut saws optimize the lamellas before sorting them to eight sorting tables and six triple Opti-Stack 3000 stackers.



1 x OPTI-FEED 6000



3 x OPTI-KAP 4003



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		1 x OPTI-FEED 6000	

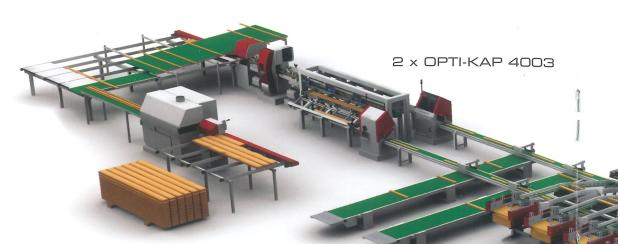
Glue panels
Pine
20 mm x 46 mm (3/4" x 1 13/16")
n n n n
70,000 linear meters/shift (230,000 linear feet/shift)
56,000 linear meters/shift (185,000 linear feet/shift)





### German component manufacturer

- hardwood sawmill



Automated optimizing cross-cut line, consisting of rip saw followed by infeed to scanner, and materials handling system to transfer the workpieces to two Opti-Kap 4003 optimizing cross-cut saws.

After cross-cutting the workpieces are sorted out and stacked by eleven Opti-Stack 3000 stacking machines. Workpiece lengths from 380 mm to 3,000 mm (15" to 10') are stacked automatically, and longer lengths can be stacked manually.



2 x OPTI-KAP 4003







Production:	Glue panels, furniture and flooring components
Wood spieces:	Beech and Oak
Workpiece dimensions:  Incoming lengths:	20 mm x 50 mm (3/4" x 2") 40 mm x 150 mm (1 9/16" x 5") 1,800 mm to 3,600 mm (6' to 12')
Number of operators:	<b>† †</b>
Capacity per shift at 100% uptime:	57,000 linear meters/shift (186,500 linear feet/shift)
Capacity per shift at 80% uptime:	47,000 linear meters/shift (154,000 linear feet/shift)



### Australian component manufacturer

- softwood sawmill

3 x OPTI-KAP 4003

1 x OPTI-FEED 6000

4 x OPTI-STACK 3000



1 x OPTI-FEED 6000



3 x OPTI-KAP 4003



4 x OPTI-STACK 3000



1 x OPTI-STACK 6000

Production:		Components, grading and sorting
Wood spieces:		Softwood
Workpiece dimensions:	Main production: Incoming lengths:	16 mm x 75 mm (5/8" x 3") 40 mm x 300 mm (1 9/16" x 12") 25 mm x 150 mm (1" x 5") 1,800 mm to 6,300 mm (6' to 21')
Number of operators:		<b>†</b> † † †
Capacity per shift at 100% uptime:		84,000 linear meters/shift (275,000 linear feet/shift)
Capacity per shift at 80% uptime:		71,000 linear meters/shift (232,000 linear feet/shift)

1 x OPTI-STACK 6000

Completely automated sorting and optimizing cross-cut line, consisting of Opti-Feed 6000 feeding to a high speed moulder (4 sides dressed). Materials handling system to transfer the workpieces to the scanner, and from the scanner to three Opti-Kap 4003 high speed optimizing cross-cut saws.

After cross-cutting the workpieces are sorted for re-ripping and finger jointing. The fixed lengths from 380 mm to 2,500 mm (15" to 8') are transported and stacked by four Opti-Stack 3000 stacking machines.

Long workpieces from 1,800 mm to 6,000 mm (6' to 20') are transported to the sling sorter and are stacked in large packs by Opti-Stack 6000 stacking machine.

## American play equipment manufacturer



Completely automated optimizing cross-cut line, consisting of two Opti-Feed 6000 infeed systems, feeding two moulding machines. The materials handling system transfers the workpieces from the moulders to the scanner, and from the scanner to the two Opti-Kap 4003 optimizing cross-cut saws. After cross-cutting the workpieces are automatically sorted and stacked by ten Opti-Stack 3000 stacking machines.

10 x OPTI-STACK 3000

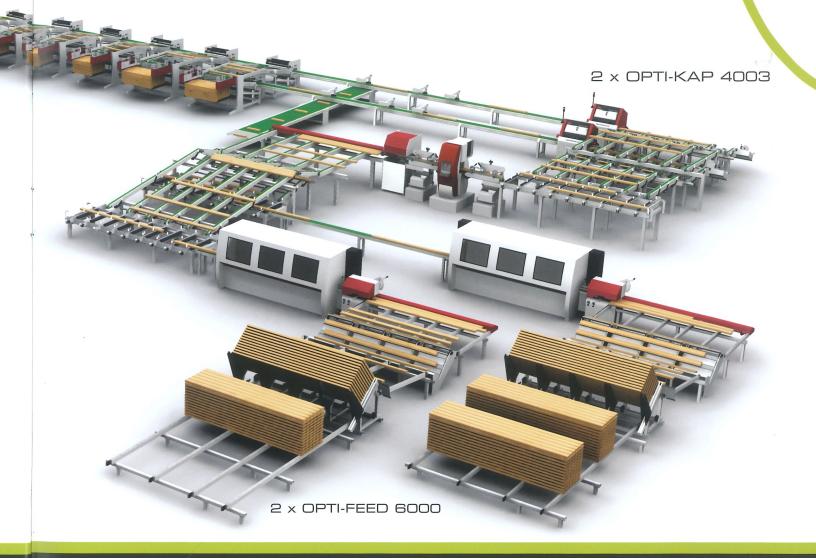


2 x OPTI-FEED 6000



2 x OPTI-KAP 4003



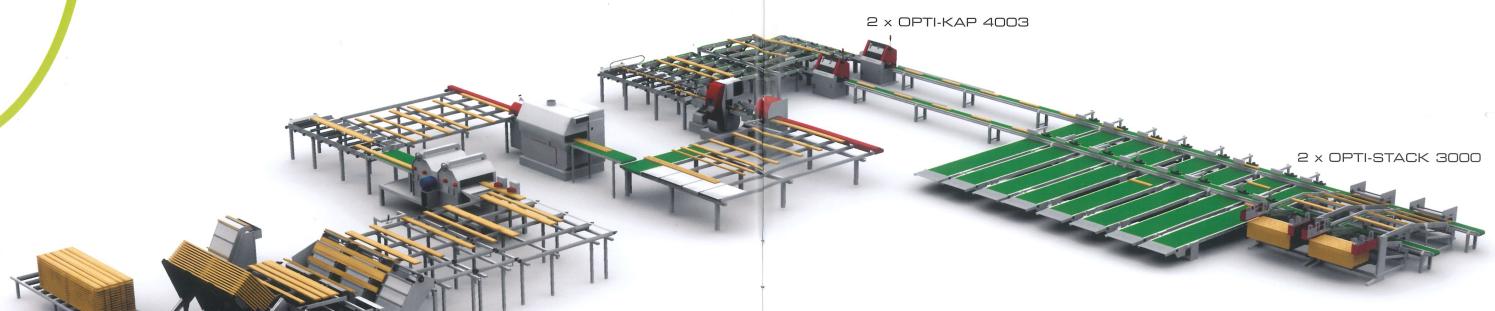




Production:	Play equipment components
Wood species:	North American Cedar and Redwood
Workpiece dimensions:	25 mm x 100 mm (1" x 4") 25 mm x 150 mm (1" x 6") 50 mm x 100 mm (2" x 4") 50 mm x 150 mm (2" x 6")
Number of operators:	n n n
Capacity per shift at 100% uptime:	55,000 linear meters/shift (180,000 linear feet/shift)
Capacity per shift at 80% uptime:	44,000 linear meters/shift (144,000 linear feet/shift)



### Canadian window & door manufacturer





1 x OPTI-FEED 6000



2 x OPTI-KAP 4003



2 x OPTI-STACK 3000

Production:		Door frame components and finger jointing blocks
Wood species:		North American Poplar and Pine
Workpiece dimensions:	Before the rip saw: After the rip saw:	25 mm x 75 mm to 25 mm x 660 mm (1" x 3" to 1" x 26") 25 mm x 25 mm to 25 mm x 200 mm (1" x 1" to 1" x 8")
Number of operators:		† † †
Capacity per shift at 100% uptime:		41,000 linear meters/shift (135,000 linear feet/shift)
Capacity per shift at 80% uptime:		33,000 linear meters/shift (109,000 linear feet/shift)

1 x OPTI-FEED 6000

Completely automated optimizing cross-cut line, consisting of Opti-Feed 6000 for feeding of random width workpieces into a double surface planer. Materials handling system to transfer the workpieces from the planer to the ripping optimization and on to the rip saw. From the rip saw the random width workpieces pass though a scanner, and from the scanner to the two optimizing cross-cut saws, Opti-Kap 4003.

After cross-cutting, the workpieces are automatically sorted by eight pneumatic kicking stations and stacked by wo Opti-Stack 3000 stacking machines.



#### We are proud to present System TM's data acquisition system - TM EASE-VIEW

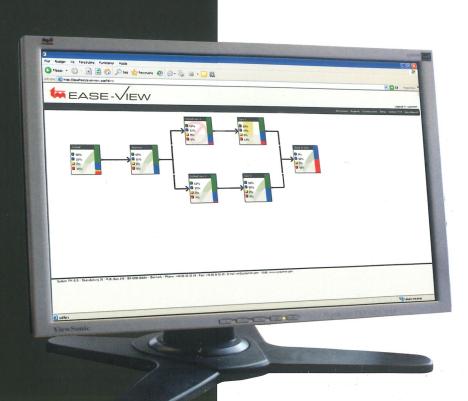
TM EASE-VIEW forms part of our efforts to assist and support our customers in their production optimization - through constant focus on the uptime and performance of the lines/machines.

The structure of the TM EASE-VIEW data acquisition system is based on 30 years of experience with typical causes of stoppages in our customers' production. A combination of automatic and manual data acquisition from the "factory floor" ensures continuously updated and valid data documentation on which to base continuous improvements.

The production data is collected at the individual machines or at the PLCs, creating the basis for decision with valid data from the original source. TM EASE-VIEW is also a maintenance system with automatic reporting of inspection/exchange of wearing parts - all done to maintain the focus and motivation of the entire organization to continuously carry out improvements.

TM EASE-VIEW is designed in a web-browser environment, enabling log-on to the system wherever and whenever the need arises. Please note that the data acquisition can be designed to enable the acquisition of data from integrated products in System TM's line, e.g. a moulder.

TM EASE-VIEW is a customized system which will be adapted to fit the individual customer's line and requirements. Furthermore, it will always be possible to add more metering points at a later date, if required.



#### **System TM Service**

System TM's After Sales Services aim is to ensure that our customers lines are utilized optimally. We have the expertise and the tools necessary to ensure that your production is generating maximum value at all times.

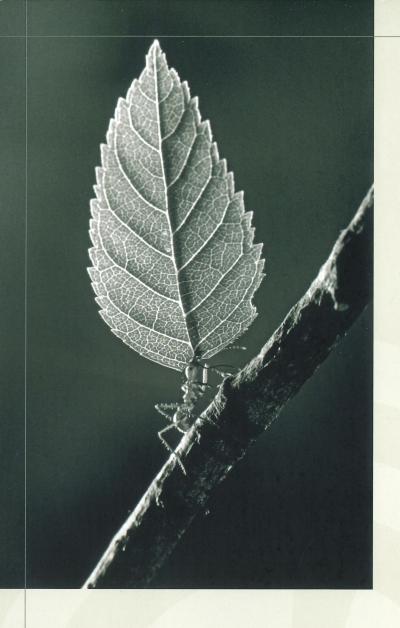
When you are in need of support outside of normal business hours, our technical support professionals are available 24 hours a day, 365 days a year, offering assistance and a wide range of products which all contribute to generating value. Whenever you need us, we're here to help.





# Our service professionals can help you with

- 24 hour hotline service of machines and lines supplied by System TM
- Upgrading, optimizing, extension and modernization of existing machines, controls and software
- In-service training and instruction of operators and employees
- Consulting services and advisory assistance
- Relocation of machines and lines
- Sale of spare parts at competitive prices



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Optimization of staff and wood resources...!