

Opti-Stack

3000 Vack / 3000
6000 Vack / 6000
9000

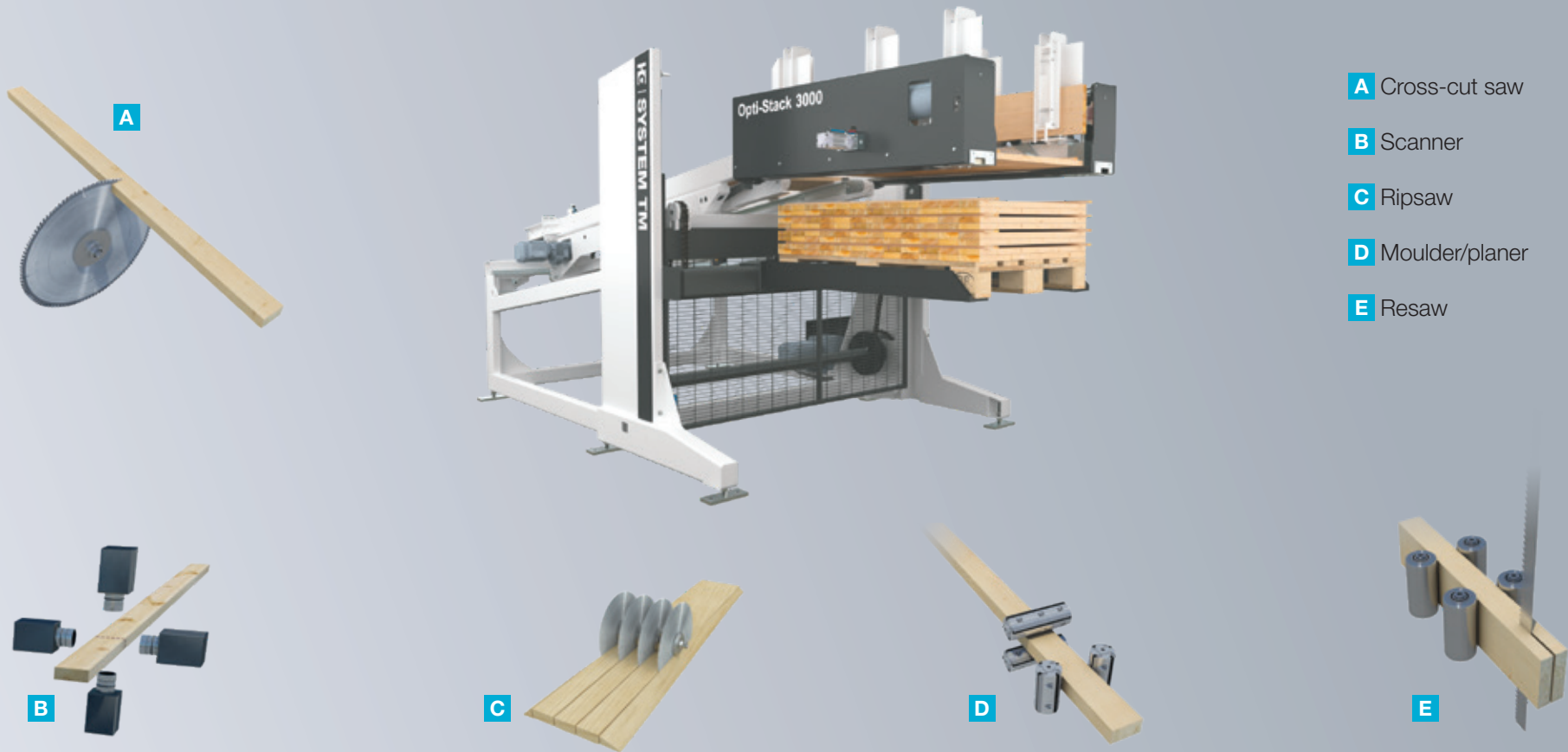
Automated stacking systems

Opti-Stack 3000



Automated stacking systems

System TM offers a wide range of standard automated stacking systems for main machine automation such as:



- A** Cross-cut saw
- B** Scanner
- C** Ripsaw
- D** Moulder/planer
- E** Resaw

Boost efficiency and profitability with an automated stacking solution

System TM's automated stacking systems are designed to increase the capacity of main machines and reduce labor costs. With System TM's Opti-Stack series, we are able to provide you with the right solution to meet your specific needs and achieve more efficient and profitable production.

This automated stacking system provides full utilization of main machine capacity and maximum usage of staff and wood resources.



Read more on our website
systemtm.com
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The smart choice

More efficiency, less repetitive work
with your System TM Opti-Stack!

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Opti-Stack 3000 Vack



Automated stacking system - Opti-Stack 3000 Vack

Opti-Stack 3000 Vack is a vacuum stacking unit for stacking complete or partial layers of workpieces after main machines such as cross-cut saws, moulders, scanners, resaws and rip saws.

The Opti-Stack 3000 Vack consists of two vacuum heads, suitable for stacking short workpieces from 380 - 2,500 mm (15" - 98") at a rate of up to 5 layers per minute of both random and uniform lengths. The vacuum head features check valve technology that automatically detects and closes valves in areas without workpieces.

This ensures secure lifting of layers of any length or width without the need to adjust the vacuum heads. Due to its modular design, the Opti-Stack 3000 Vack stacking unit is suspended from a portal, allowing layers to be stacked onto packs positioned on the floor. Packs can be easily and automatically removed from the floor during operation.



The foam of the vacuum head adjusts to the shape of the workpieces before lifting the layers. This minimizes false air and maximizes lifting load.

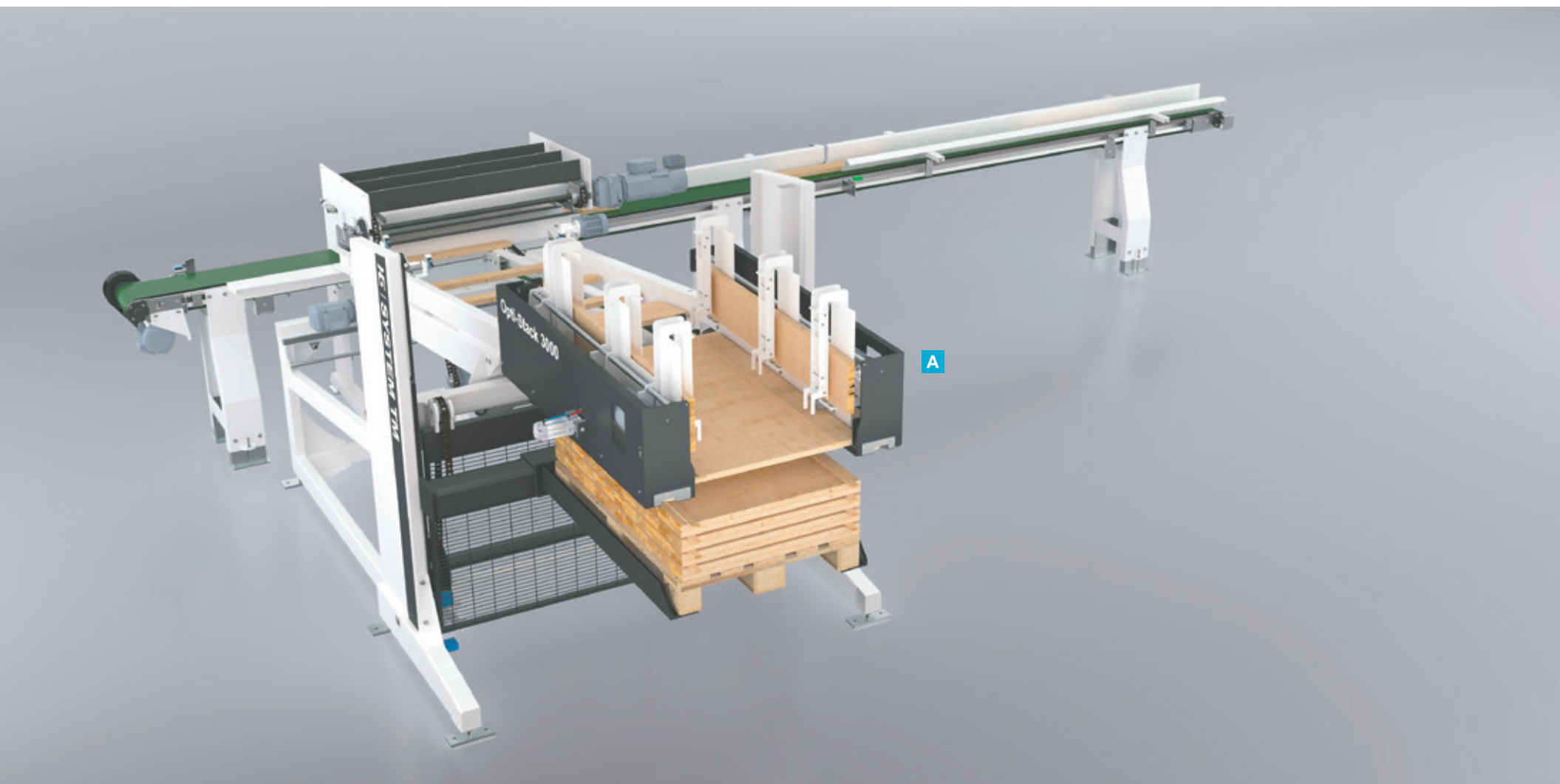
Advantages

- Stacking from multiple locations
- Stacking to multiple destinations
- Liberates operators from hard and repetitive work
- Better utilization of main machine capacity
- Gentle handling without damaging workpieces or layers
- Minimum space requirement
- Stacking of random lengths and widths

Features

- Automatic placement of stabilizing sticks
- Automatic pack transport
- Feeding conveyor
- Customized features upon request

Opti-Stack 3000



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Automated stacking system - Opti-Stack 3000

The Opti-Stack 3000 is a high-capacity mechanical stacking system designed to stack short workpieces from 380-2,500 mm (15" - 98") with a capacity of up to 150 workpieces or 12 layers per minute of uniform length.

The Opti-Stack 3000 has a modular design that can be customized to meet your exact requirements for work-piece stacking after main machines such as moulders, scanners, cross-cut saws and resaws.



The mechanical stacking system can be equipped with optional features such as stick magazines that automatically insert sticks between layers as needed.

Advantages

- High capacity
- Stacking of narrow workpieces
- Liberates operators from hard and repetitive work
- Better utilization of main machine capacity
- Gentle handling without damaging workpieces or layers
- Minimum space requirement

Features

- Automatic placement of stabilizing or drying sticks
- Automatic pack transport
- Brick and zig-zag stacking
- Stacking of random widths
- Connecting belts to double-end tenoner
- Board turning device
- Customized features upon request

Opti-Stack 6000 Vack



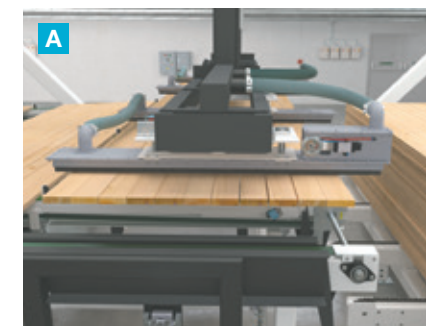
Automated stacking system - Opti-Stack 6000 Vack

Opti-Stack 6000 Vack is a vacuum stacking unit for stacking complete or partial layers of workpieces from main machines such as cross-cut saws, moulders, scanners, resaws and rip saws.

The Opti-Stack 6000 Vack consists of an adjustable number of vacuum heads that can be customized to meet any stacking requirement. The stacking unit is capable of stacking long workpieces from 900 - 6,300 mm (3' - 21') at a rate of up to 4 layers per minute, in random or uniform lengths and widths. The vacuum

head features check valve technology that automatically detects and closes valves in areas without workpieces. This ensures safe lifting of layers, random lengths or widths without the need for adjustment.

Due to its modular design, the Opti-Stack 6000 Vack stacking unit is suspended from a portal, allowing layers to be stacked into packs positioned on the floor. Packs can be easily and automatically removed from the floor during operation.



Check valve technology detects and closes valves in areas without workpieces. This ensures safe lifting of layers without the need to adjust vacuum heads

Advantages

- Stacking from multiple locations
- Stacking to multiple destinations
- Liberates operators from hard and repetitive work
- Better utilization of main machine capacity
- Gentle handling without damaging workpieces or layers
- Minimum space requirement
- Stacking of random lengths and widths

Features

- Automatic placement of stabilizing sticks
- Automatic pack transport
- Feeding conveyor
- Customized features upon request



Opti-Stack 6000



Automated stacking system - Opti-Stack 6000

The Opti-Stack 6000 is designed to stack workpieces from main machines such as cross-cut saws, moulding machines, resaws and rip saws.

The Opti-Stack 6000 is a high capacity mechanical stacking system designed to stack long workpieces from 900 - 6,300 mm (3' - 21'). The Opti-Stack 6000 has a capacity of up to 6 layers per minute of random or uniform lengths and widths. Packs can be changed easily and automatically during operation.



The mechanical stacking system can be equipped with optional features such as brick stacking, which provides high stack stability without the need for stabilizing sticks.

- Advantages**
 - High capacity
 - Stacking of uniform or random lengths and widths
 - Stacking of narrow workpieces
 - Liberates operators from hard and repetitive work
 - Better utilization of main machine capacity
 - Gentle handling without damaging workpieces or layers
- Features**
 - Automatic placement of stabilizing or drying sticks
 - Automatic pack transport
 - Reject gate
 - Brick stacking
 - Random lengths and widths stacking
 - Board turning device
 - Customized features upon request



Opti-Stack 9000



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Automated stacking system - Opti-Stack 9000

The Opti-Stack 9000 has been developed to meet the demands of the solid wood industry for increased automation in material handling. It is a highly flexible stacking unit that can be easily configured to stack large or small workpiece dimensions.

The stacker is designed for easy integration with System TM or other brands of main machines. Some of the standard options for the stacker include brick or zig-zag stacking, stick placement for stack stabilization or drying processes, multiple even-end positions of either single workpieces or workpieces cross-cut into multiple lengths, and turning devices.



Highly flexible and easily configurable for stacking of large or small workpiece dimensions.

Advantages

- Stacking of uniform or random lengths and widths
- Stacking of lengths up to 25,000 mm
- Liberates operators from hard and repetitive work
- Better utilization of main machine capacity
- Gentle handling without damaging workpieces or layers

Features

- Automatic placement of stabilizing or drying sticks
- Automatic pack transport
- Brick, zig-zag or offset even-end stacking
- Stacking of random lengths and widths
- Board turning device
- Customized features upon request



Technical data

Opti-Stack series data overview

	Opti-Stack 3000 Vack	Opti-Stack 3000	Opti-Stack 6000 Vack
Board length	380 - 2,500 mm (15' - 98')	380 - 2,500 mm (15' - 98')	900 - 6,300 mm (3' - 21')
Board width	63 - 1,225 mm (2.5" - 48")	50 - 200 mm (2" - 8")	63 - 1,225 mm (2.5" - 48")
Board thickness	15 - 50 mm (0.6" - 2")	15 - 75 mm (0.5" - 3")	15 - 50 mm (0.5" - 2")
Number of vacuum heads	2	None	4
Random length	Yes	No	Yes
Maximum length variation	30%	+/- 5 mm (0.25")	30%
Maximum workpiece weight	Depends of board dimension	12 kg (25.5 lb)	Depends of board dimension
Maximum layer weight	100 kg (220.5 lb)	80 kg (176 lb)	200 kg (441 lb)
Maximum pack height	1,225 mm incl. pallet (48")	1,225 mm incl. pallet (48")	1,225 mm incl. pallet (48")
Maximum pack width	1,225 mm (48")	1,225 mm (48")	1,225 mm (48")
Maximum pack weight		1,500 kg (3,307 lb)	
Capacity	5 layers per minute	150 workpieces or 12 layers per minute	4 layers per minute
Optional capacity	8 layers per minute	None	8 layers per minute

	Opti-Stack 6000	Opti-Stack 9000
Board length	900 - 6,300 mm (3' - 21')	1,800 - 7,200 mm (6' - 23')
Board width	50 - 300 mm (2" - 12")	50 - 300 mm (2" - 12")
Board thickness	16 - 100 mm (5/8" - 4")	16 - 100 mm (5/8" - 4")
Number of vacuum heads	None	None
Random length	Yes	Yes
Maximum length variation	30%	30%
Maximum workpiece weight	40 kg (88 lb)	40 kg (88 lb)
Maximum layer weight	300 kg (661 lb)	300 kg (661 lb)
Maximum pack height	1,225 mm (48")	1,225 mm (48")
Maximum pack width	1,225 mm (48")	1,225 mm (48")
Maximum pack weight	4,000 kg (8,818 lb)	4,000 kg (8,800 lb)
Capacity	6 layers per minute	20 workpieces or 3,5 layers per minute
Optional capacity	8 or 10 layers per minute	None

All of the above data can be customized upon request.

All equipment is built to metric standards. Dimensions shown in imperial units are approximations and for comparison purposes only.



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Opti-Stack

The Opti-Stack automated stacking system is designed to provide an exceptional increase in main machine capacity and a significant reduction in labor costs.

System TM products

Additional products

System TM products and system solutions can be equipped with automatic handling or scanning systems for best lumber utilization and capacity with minimal use of manual labor.

In order to meet all customer demands, our selection of material handling systems consists of both standard and fully customized solutions.

Opti-Feed

Automated feeding systems



Opti-Joint

Automated finger-jointing systems



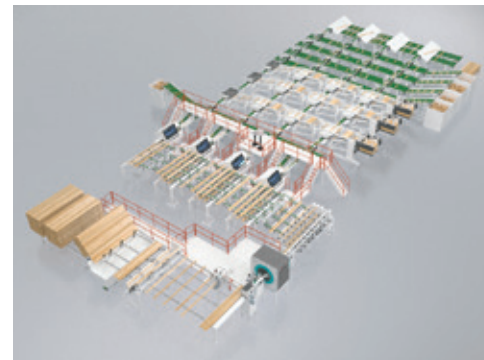
Opti-Kap

Optimizing cross-cut saws



Opti-Solution

Customized system solutions



MiCROTEC

To achieve best lumber utilization and production optimization, System TM's products and solutions can be combined with automatic scanning.

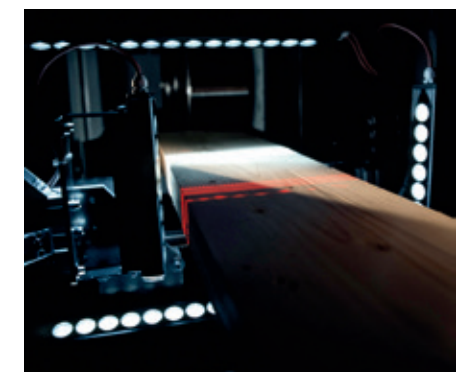
MiCROTEC is System TM's scanner partner and the technology leader within the scanning industry. MiCROTEC scanners are highly reliable and accurate in wood defect detection, and ensure automated, streamlined and optimized production.

To identify the characteristics of lumber, Multi-Sensor scanning technology powered by MiCROTEC Ai recognizes knots, cracks, pitch pockets, holes, stains, waness and other board defects, as well as their location. With exceptional precision and high speed, the sensors scan the boards for best lumber utilization.

Combined with today's scanning technology and optimizing software, a System TM product or system solution ensures best production optimization at high capacity.



The Microtec Multi-Sensor Scanner Goldeneye.



The Multi-Sensor scanning technology scans workpieces for best wood utilization.

System TM service

Optimal performance through strong service and support

System TM's service is a key strategic business area. Our service department is constantly evolving to meet customer needs and provide exceptional service and support.

System TM's service and support team ensures high uptime, productivity, and utilization. Systematic maintenance minimizes production downtime, and ensures smooth operation with minimal risk of unexpected machine failure.

System TM's service and support team consists of highly educated, trained, and experienced service engineers and technicians. With over 45 years of experience in designing, building, integrating and maintaining automated timber processing systems, System TM is a highly qualified provider of service and support.

This includes:

- Service and maintenance contracts
- A customized spare part kit for each customer to ensure a successful start
- Modification, upgrading and extension of existing machines, controls and software
- Relocation, renovation, installation and start-up of machine installations
- Production and system analysis and optimization
- Staff/operator education on how to handle and maintain machines
- Advisory and consultancy services
- Spare parts and enhancements
- Warranty
- Helpdesk and online telephone support - 24 hours worldwide



Our service technicians remain at your disposal even outside working hours

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optimization of staff and wood resources

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