Optimization of staff and wood resources
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Automated feeding systems

- Opti-Feed 1000, 3000 and 6000

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Automated feeding systems

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

- Opti-Feed 1000 Vack
- Opti-Feed 3000 Vack
- Opti-Feed 3000
- Opti-Feed 6000 Vack
- Opti-Feed 6000

Technical data

Additional products

System TM service

Automated feeding system provides full utilization of main machine capacity and maximum usage of staff and wood resources.

Make a wise move

- Let A System TM Opti-Feed system do all the hard and repetitive work!
Opti-Feed 1000 Vack

Automated feeding system - Opti-Feed 1000 Vack

Opti-Feed 1000 Vack is a vacuum de-stacking unit for feeding of complete or partial workpiece layers into different main machines such as cross-cut saws, moulding machines, double-end tenoners, resaws and sanding machines.

The Opti-Feed 1000 Vack consists of a vacuum head suitable for feeding short workpieces of 380 – 1,600 mm (15''-63''). It has a feeding capacity of up to 5 layers per minute of both random or uniform lengths and widths. The vacuum head features check valve technology, which automatically identifies and closes check valves in areas without workpieces. This ensures secure handling and lifting of all layers, random lengths and widths without having to adjust vacuum heads.

Due to its modular design, the Opti-Feed 1000 Vack de-stacking unit is suspended from a portal, enabling the de-stacking of layers from packs positioned on the floor or on a conveyor.

Advantages
- De-stacking from multiple locations
- De-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
- Feeding of random lengths and widths

Features
- Automatic removal of stabilizing or drying sticks
- Stick collector
- Automatic pack transport
- Receiving chain conveyor
- Customized features upon request

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.
Automated feeding system - Opti-Feed 3000 Vack

Opti-Feed 3000 Vack is a vacuum de-stacking unit for feeding of complete or partial workpiece layers into different main machines such as cross-cut saws, moulding machines, double-end tenoners, resaws and sanding machines.

The Opti-Feed 3000 Vack consists of two vacuum heads suitable for feeding short workpieces of 380 – 2,500 mm (15”-98”). It has a feeding capacity of up to 5 layers per minute of both random or uniform lengths and widths. The vacuum head features check valve technology, which automatically identifies and closes check valves in areas without workpieces. This ensures secure handling and lifting of all layers, random lengths and widths without having to adjust vacuum heads.

Due to its modular design, the Opti-Feed 3000 Vack de-stacking unit is suspended from a portal, enabling the de-stacking of layers from packs positioned on the floor or on a conveyor.

Advantages
- De-stacking from multiple locations
- De-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
- Feeding of random lengths and widths

Features
- Automatic removal of stabilizing or drying sticks
- Stick collector
- Automatic pack transport
- Receiving chain conveyor
- Customized features upon request
Opti-Feed 3000

Automated feeding system - Opti-Feed 3000

Opti-Feed 3000 is a de-stacking unit for feeding of complete or partial workpiece layers into different main machines such as cross-cut saws, moulding machines, double-end tenoners, resaws and sanding machines.

The Opti-Feed 3000 consists of a mechanical layer gripper system, suitable for feeding short workpieces of 380 – 2,500 mm (15’’ - 98’’). It has a feeding capacity of up to 5 layers per minute of uniform lengths and random widths. The layer gripper system is equipped with rubber profiles, that picks up layers by gripping each workpiece. This ensures secure handling and lifting of all layers straight from workpiece packs.

Due to its modular design, the Opti-Feed 3000 destacking unit is suspended from a portal, enabling the de-stacking of layers from packs positioned on the floor or on a conveyor.

Advantages
- De-stacking from multiple locations
- De-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
- Feeding of random widths
- De-stacking of narrow workpieces

Features
- Automatic removal of stabilizing or drying sticks
- Stick collector
- Automatic pack transport
- Receiving chain conveyor
- Customized features upon request

The mechanical layer gripper consists of flexible rubber profiles, which ensures secure lifting of all workpieces in the layers.
Opti-Feed 6000 Vack

Automated feeding system - Opti-Feed 6000 Vack

Opti-Feed 6000 Vack is a vacuum de-stacking unit for feeding of complete or partial workpiece layers into different main machines such as cross-cut saws, moulding machines, double end tenoners, resaws and sanding machines.

The Opti-Feed 6000 Vack consists of multiple vacuum heads suitable for feeding long workpieces of 1,200 – 6,300 mm (4’ - 20’). It has a capacity of up to 4 layers per minute of both random and uniform lengths and widths. The vacuum heads feature check valve technology, which automatically identifies and closes the check valves in areas without workpieces. This ensures secure handling and lifting of all layers, random lengths and widths without having to adjust vacuum heads.

Due to its modular design, the Opti-Feed 6000 Vack de-stacking unit is suspended from a portal, enabling the de-stacking of layers from packs positioned on the floor or on a conveyor.

Advantages
- De-stacking from multiple locations
- De-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
- Feeding of random lengths and widths

Features
- Automatic removal of stabilizing or drying sticks
- Stick collector
- Automatic pack transport
- Receiving chain conveyor
- Customized features upon request
**Opti-Feed 6000**

**Automated feeding system - Opti-Feed 6000**

The Opti-Feed 6000 is designed to feed workpieces into different main machines such as cross-cut saws, moulding machines, resaws and rip saws. The Opti-Feed 6000 is a mechanical de-stacking unit suitable for feeding long workpieces of 1,200 - 6,300 mm (4' - 20') at a high level of capacity.

This de-stacking unit consists of single or multiple machine modules, combined to fulfill the needed application for capacity, processes and space availability. Packs can easily and automatically be replaced during operation without having to stop the main machinery. This helps reach the desired capacity.

**Advantages**
- High capacity
- Feeding of random lengths and widths
- Infeed speed is adjusted to the speed of main machines
- Liberates operators from hard and repetitive work
- Better utilization of main machine capacity
- De-stacking of narrow workpieces

**Features**
- Automatic removal of stabilizing or drying sticks
- Stick collector
- Automatic pack transport
- Trim saw
- Equipment for edge protection and controlled workpiece feeding
- Automatic measuring of core bend
- Turning devices for best orientation of every single workpiece
- Reject gate
- Customized features upon request

The mechanical feeding system can be equipped with optional features such as equipment for edge protection and noise reduction.
## Opti-Feed series data overview

<table>
<thead>
<tr>
<th></th>
<th>Opti-Feed 1000 Vack</th>
<th>Opti-Feed 3000 Vack</th>
<th>Opti-Feed 3000</th>
<th>Opti-Feed 6000 Vack</th>
<th>Opti-Feed 6000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Board length</strong></td>
<td>380 - 1,600 mm</td>
<td>380 - 2,500 mm</td>
<td>380 - 2,500 mm</td>
<td>1,200 - 6,300 mm</td>
<td>1,200 - 6,300 mm</td>
</tr>
<tr>
<td></td>
<td>(15” - 63”)</td>
<td>(15” - 98”)</td>
<td>(15” - 98”)</td>
<td>(4’ - 20’)</td>
<td>(4’ - 20’)</td>
</tr>
<tr>
<td><strong>Board width</strong></td>
<td>75 - 1,225 mm</td>
<td>63 - 1,225 mm</td>
<td>50 - 300 mm</td>
<td>63 - 1,225 mm</td>
<td>50 - 300 mm</td>
</tr>
<tr>
<td></td>
<td>(3” - 48”)</td>
<td>(2.5” - 48”)</td>
<td>(2” - 12”)</td>
<td>(2.5” - 48”)</td>
<td>(2” - 12”)</td>
</tr>
<tr>
<td><strong>Board thickness</strong></td>
<td>15 - 35 mm</td>
<td>15 - 50 mm</td>
<td>15 - 100 mm</td>
<td>15 - 50 mm</td>
<td>15 - 100 mm</td>
</tr>
<tr>
<td></td>
<td>(0.6” - 1.4”)</td>
<td>(0.6” - 2”)</td>
<td>(0.6” - 4”)</td>
<td>(0.6” - 2”)</td>
<td>(0.6” - 4”)</td>
</tr>
<tr>
<td><strong>Number of vacuum heads</strong></td>
<td>1</td>
<td>2</td>
<td>None</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td><strong>Random length</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Maximum length variation</strong></td>
<td>30 %</td>
<td>30 %</td>
<td>+/- 5 mm</td>
<td>30 %</td>
<td>30 %</td>
</tr>
<tr>
<td></td>
<td>(0.5”)</td>
<td>(0.5”)</td>
<td>(0.25”)</td>
<td>(0.5”)</td>
<td>(0.5”)</td>
</tr>
<tr>
<td><strong>Maximum work-piece weight</strong></td>
<td>Depends of board dimension</td>
<td>Depends of board dimension</td>
<td>20 kg (44 lb)</td>
<td>Depends of board dimension</td>
<td>40 kg (88 lb)</td>
</tr>
<tr>
<td><strong>Maximum layer weight</strong></td>
<td>30 kg (66 lb)</td>
<td>100 kg (220.5 lb)</td>
<td>80 kg (176.4 lb)</td>
<td>200 kg (441 lb)</td>
<td>400 kg (882 lb)</td>
</tr>
<tr>
<td><strong>Maximum pack height</strong></td>
<td>1,225 mm incl. pallet (48”)</td>
<td>1,225 mm incl. pallet (48”)</td>
<td>1,225 mm incl. pallet (48”)</td>
<td>1,225 mm incl. pallet (48”)</td>
<td>1,225 mm incl. pallet (48”)</td>
</tr>
<tr>
<td><strong>Maximum pack width</strong></td>
<td>1,225 mm (48”)</td>
<td>1,225 mm (48”)</td>
<td>1,225 mm (48”)</td>
<td>1,225 mm (48”)</td>
<td>1,225 mm (48”)</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>5 layers per minute</td>
<td>5 layers per minute</td>
<td>5 layers per minute</td>
<td>4 layers per minute</td>
<td>6 layers per minute</td>
</tr>
<tr>
<td><strong>Optional capacity</strong></td>
<td>8 layers per minute</td>
<td>8 layers per minute</td>
<td>8 layers per minute</td>
<td>8 layers per minute</td>
<td>10 layers per minute</td>
</tr>
</tbody>
</table>

All of the above data can be customized upon request.

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

System TM A/S

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

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

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 a 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, a Multi-Sensor scanning technology recognizes knots, cracks, pitch pockets, holes, stains, wanes 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.

Opti-Kap
Optimizing cross-cut saws

Opti-Stack
Automated stacking systems

Opti-Joint
Automated finger jointing systems

Opti-Solution
Customized system solutions

Microtec

The Microtec Multi-Sensor Scanner Goldeneye

The Multi-Sensor scanning technology scans workpieces for best wood utilization.
Optimal performance thanks to a strong service and support team

System TM’s service is a key strategic business unit. Our service department constantly develops its service to meet customer wishes and to 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 minimum risk of unexpected machine breakdowns.

System TM’s service and support team consists of highly educated, trained, and experienced service engineers and technicians. With more than 40 years of experience in designing, building, integrating and maintaining automated wood material handling 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
Optimization of staff and wood resources

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