

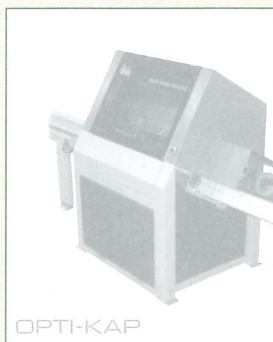
OPTI-STACK

OPTI-STACK

Automated Stacking Systems
Opti-Stack 3000
Opti-Stack 6000



OPTI-STACK



OPTI-KAP



OPTI-FEED



Automated Stacking



Opti-Stack 3000 and 6000 - automated stacking solutions

System TM offers a wide range of standard, well-proven mechanical handling systems for automation of main machines such as cross-cut saws, moulders, resaws, rip-saws, etc.

Our mechanical handling systems are designed to dramatically increase the capacity of the main machine and to reduce labour costs. In order to satisfy customer demands our range of systems includes both standard system solutions and fully customised project solutions, when required.

The standard Opti-Stack 3000 and Opti-Stack 6000 packages offer a wide range of outfeed systems which can be mixed and matched, but which also allow for extra equipment to be added at a later date. You can choose from an extensive range of optional features such as pack transport, stick magazines, brick stacking, zig-zag stacking, etc.

With System TM's Opti-Stack 3000 and Opti-Stack 6000 we are able to advise you on - and supply - the right solution to fulfil your specific requirements and demands to obtain more efficient and more profitable production.



Make a wise move

- let an Opti-Stack solution from System TM do all the hard and repetitive work!!

Opti-Stack systems will give you the following advantages:

- Increased production
- Reduced labour costs
- Optimal utilisation of your main machine's capacity
- No manual handling
- No heavy lifting
- Careful handling of the workpieces
- Flexible solutions
- No repetitive strain injuries
- High reliability
- Standard systems and individual solutions
- Durable heavy-duty construction
- User-friendly and safe design
- Fast and easy to operate with a low change-over time between production runs
- After Sales Service – 24 Hours – world-wide

Opti-Stack 3000 Solutions

Opti-Stack 3000 – short workpieces

Opti-Stack 3000 – an automatic high performance stacking system designed so that the stacking speed of the workpieces is automatically adjusted to the speed of the main machine at a rate of 85 workpieces (standard) per minute, enabling both increased capacity of the main machine and release of labour from hard and repetitive work.

Based on a standard module, the stacker has a modular design that can be customised to meet the customer's exact requirements for stacking of workpieces after different main machines such as moulding machines, double end tenoners, cross-cut saws, resaws, drilling machines etc.

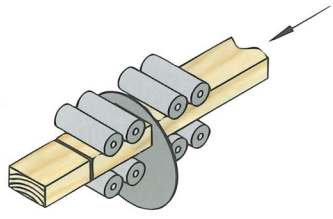
The Opti-Stack 3000 is the fifth generation of System TM stacking machines, stacking workpieces of uniform lengths, and thus represents many years of knowledge and experience.

Opti-Stack 3000 is designed to handle short workpieces from 380 – 2500 mm (15" - 98") at a capacity of 85 workpieces (standard) or 8 layers per minute by uniform lengths.

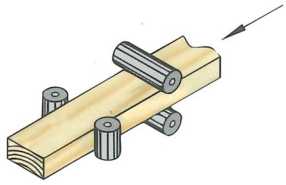
Opti-Stack 3000 systems can be equipped with optional features such as pack transport, stick magazines, brick- and zig-zag stacking, automatic length adjustment, etc.

Features

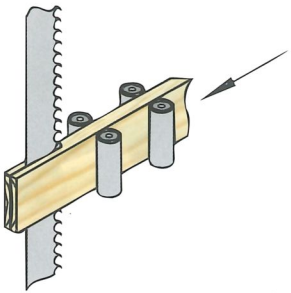
- A solution that optimise your staff resources
- Replace monotonous and hard work
- Minimum of maintenance
- Higher capacity and productivity
- Max. utilisation of your main machine



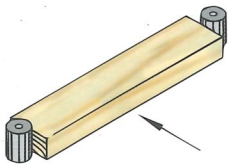
Cross-cut



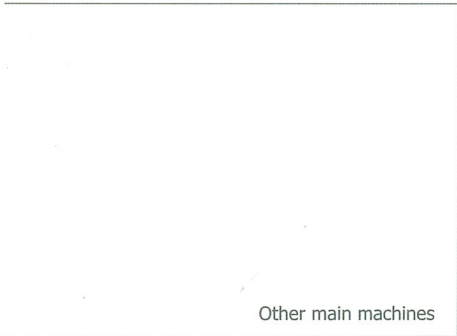
Moulder/planer



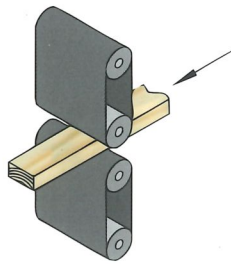
Resaw



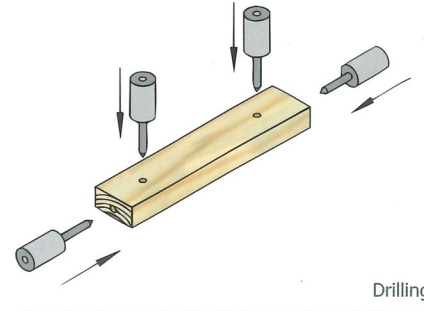
Double end tenoner



Other main machines



Sanding



Drilling

Opti-Stack 6000 Solutions

Opti-Stack 6000 – long workpieces

Layer stacker for efficient and reliable stacking of workpieces.

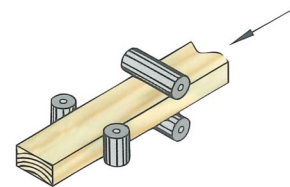
System TM's system packages offer three Opti-Stack 6000 solutions, matching the customer's specific requirements with regard to stacking, floor space and investment.

The Opti-Stack 6000 system is designed so that the stacking speed of the workpieces is automatically adjusted to the speed of the main machine, enabling both increased machine capacity and release of labour from hard and repetitive work.

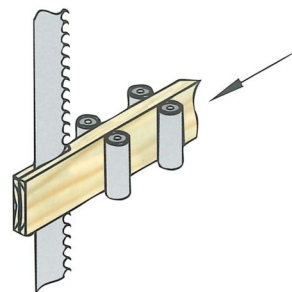
Opti-Stack 6000 is suitable for the handling of long workpieces from 1200 – 6100 mm (4' - 20') at a capacity of 40 workpieces (standard) per minute.

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

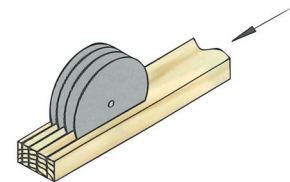
Opti-Stack 6000 systems can be equipped with optional features such as pack transport, stick magazines, board turning device, reject station, brick stacking, etc. Packs can be easily and automatically replaced during operation - without stopping the main machinery.



Moulder/planer



Resaw



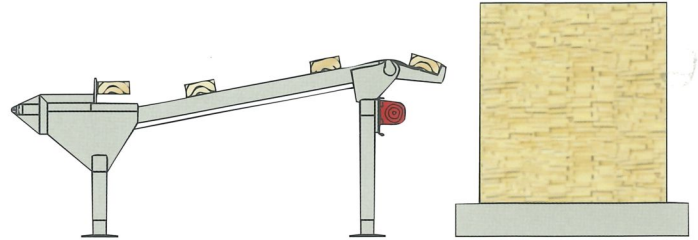
Rip-saw

Other main machines

Concept 1

Semi-automatic stacking system

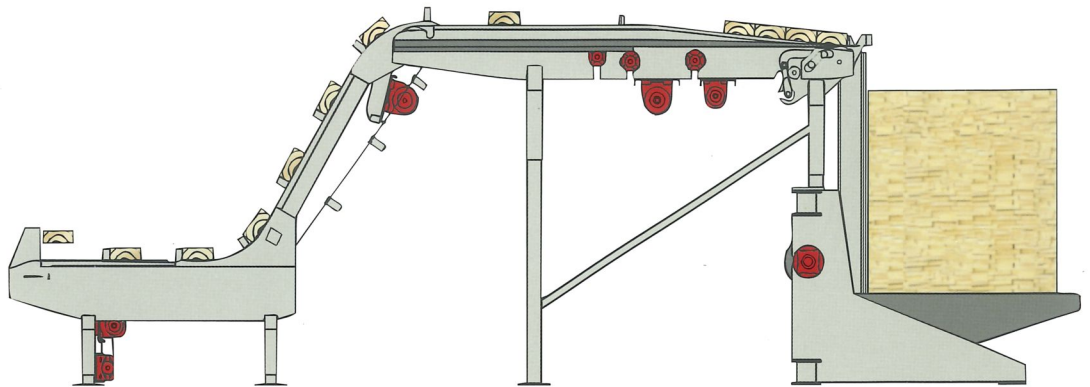
- Acceleration belt conveyor
- Pneumatic transfer table
- Rising cross belt conveyor



Concept 2

Automatic stacking system

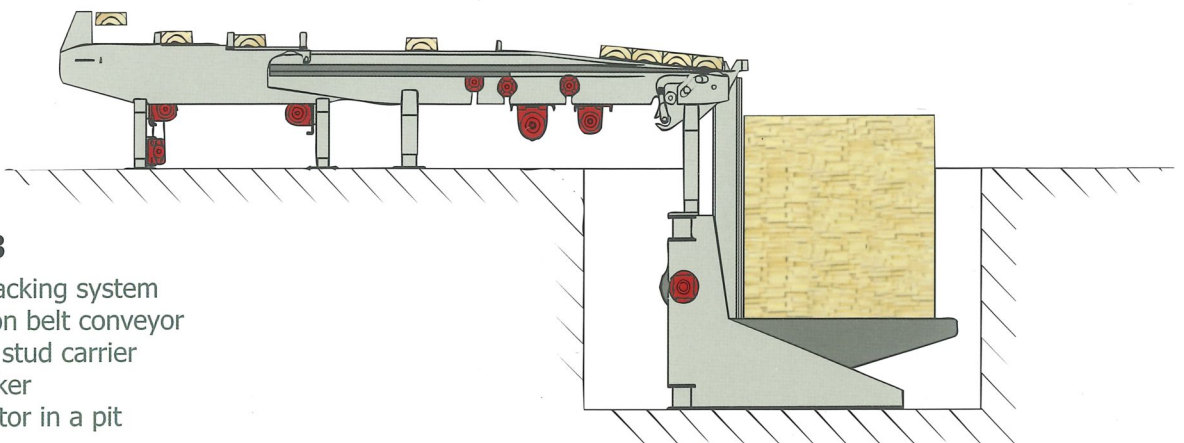
- Acceleration belt conveyor
- Rising stud carrier
- Layer stacker
- Pack elevator



Concept 3

Automatic stacking system

- Acceleration belt conveyor
- Horizontal stud carrier
- Layer stacker
- Pack elevator in a pit

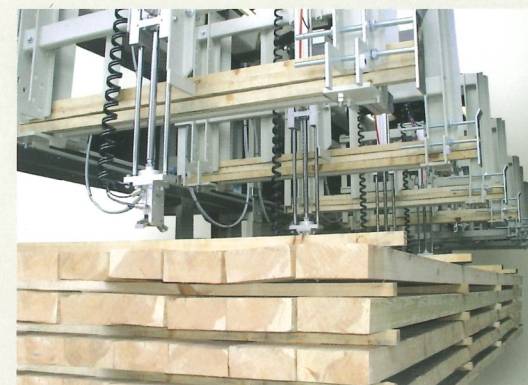




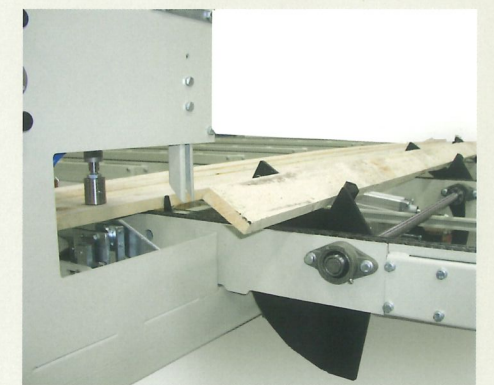
Stick magazines for dispensing of sticks to stabilise the packs.



Example of automatic pack transport with bundling of packs. This leads to minimal time consumption by pack change, thus increasing the capacity of the plant.



Stick magazines for dispensing of sticks for kiln or to stabilise of packs.



If the workpieces are to be turned before stacking or further handling, a board turning device can be included as shown here.



By stacking of short workpieces you may wish to completely fill a pallet. This can be achieved as shown in this example where more than two packs are stacked on one pallet.



*Zig-zag stacking
- Opti-Stack 3000*



*Brick stacking
- Opti-Stack 3000 + 6000*

Pack chain conveyor for buffer storage of finished, stacked packs.



Optimisation of **staff** and wood resources

Technical Features

Opti-Stack 3000 - short workpieces

Standard Features

- Sorting belt
- Mechanically sweeping unit
- Belt conveyors
- Stacking trays
- Pack elevator
- Electrical equipment & control programme
- Safety fence

Optional Features

- Stick magazines
- Brick and zig-zag stacking
- Pack chains (fixed)
- Pack chain (adjustable)
- Pack rollers
- Automatic length adjustment
- Maximum width 200-300 mm (8-12")

Technical Informations

- Board length: 380 - 2500 mm (15" - 98")
- Board width: 50 - 200 mm (2" - 8")
- Board thickness: 15 - 75 mm (5/8" - 3")
- Board weight, max: 12 kg (27 lb.)
- Layer weight, max: 80 kg (176 lb.)
- Pack width: 800 / 1200 mm (31" / 48")
- Pack height, max: 1200 mm (48") incl. pallet
- Saw height: 850 +/- 50 mm (33,5" +/- 2")
- Capacity (standard): 85 board/min or 8 layer/min

Variations of specification available on request

*Technical data subject to change without prior notice. The data may vary according to the specific design of the line. Please contact us if you need any further information.
(Opti-Stack 3000 & Opti-Stack 6000)

Opti-Stack 6000

- long workpieces

Standard Features

- Acceleration belt conveyor with frequency inverter drive
- Rising stud carrier with alignment rollers
- Layer stacker with non-marking chains and frequency inverter drive on the forks
- Pack elevator
- Electrical equipment & control programme
- Safety fence

Optional Features

- Pack rollers
- Pack chains
- Board turner device
- Brick stacking
- Stick magazines
- Reject gate
- Pack elevator in pit and horizontal stud carrier
- Extra chain carriers (6 total) for minimum board thickness: 12 mm
- Higher infeed speed (main machine's speed)

Technical Informations

- Board length: 1800 - 6300 mm (6' - 20.5')
1200 - 4800 mm (4' - 16')
- Length variation, max: 30%
- Board width: 50 - 300 mm (2"-12")
- Board thickness: 15 - 100 mm (5/8" - 4")
- Board weight, max: 40 kg (88 lb.)
- Layer weight, max: 300 kg (660 lb.)
- Pack width, max: 1200 mm (48")
- Pack height, max: 1200 mm (48")
- Pack weight, max: 4000 kg (8800 lb.)
- Main machine bed height: 850 - 900 mm (400 ft/min)
- Main machine speed, max: 120 m/min (88 lb.)
- Capacity (standard): 40 board/min or 5 layer/min

Variations of specification available on request



**System TM A/S
(Head office)**

Skovdalsvej 35
P.O. Box 249
DK-8300 Odder
Denmark
Phone: +45 86 54 33 55
Fax: +45 86 54 32 19
tm@systemtm.com
www.systemtm.com

**System TM
(UK office)**

Phone: +44 116 243 4428
tm@systemtm.co.uk

**System TM
North America Inc.**

25 23rd St NW,
P.O. Box 2305
Hickory, NC 28603
USA
Phone: +1 828-327-2626
tm@systemtm.com



We are handling specialists too...!