

# Mechanical handling

## systems for band resaws



# Mechanical stacking solutions

System TM has designed a range of standard mechanical handling solutions for the automated infeed and outfeed of band resaws. Our range covers mechanical handling from complete integrated lines, to single stand alone resaws. All equipment is designed to surround any type of resaw and handle all timber species.

You can choose between our wide range of infeed and outfeed options as well as a broad range of conveyor equipment, transfer chains, belt conveyors, scissors lift, tilt hoists and automatic stackers or we can deliver you a customised solution, if required.

Thanks to its modular design, our solutions are characterised by high flexibility and can also be added too, to match future needs or they can be combined to meet your specific needs.

## Outfeed, concept 1:

Acceleration belt conveyor  
Roller conveyor with transverse brush-off  
Cross chain conveyor

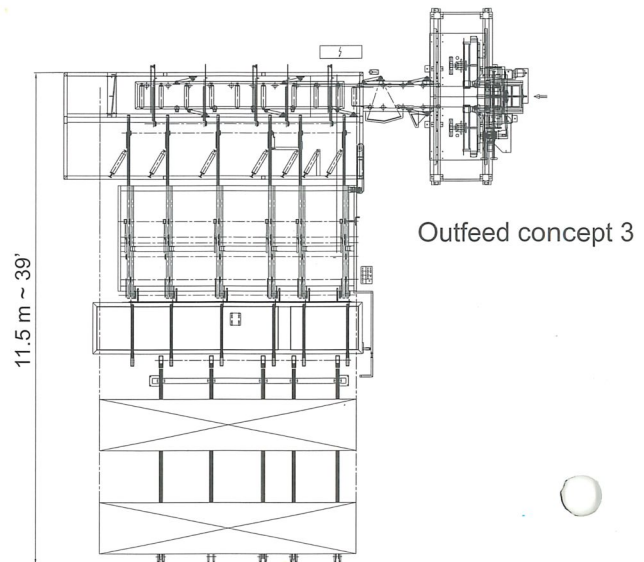
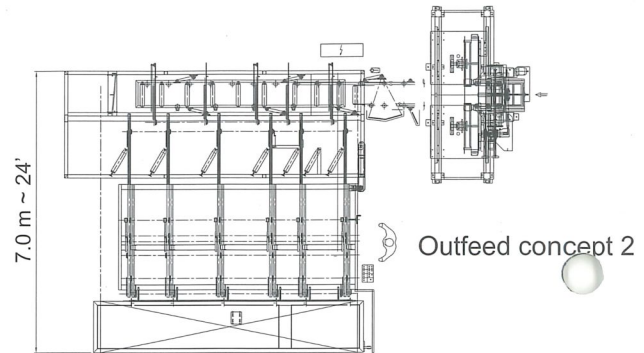
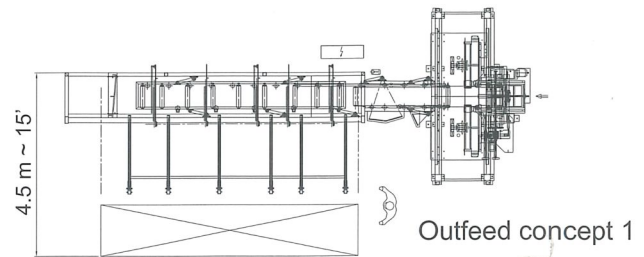
## Outfeed, concept 2:

Acceleration belt conveyor  
Roller conveyor with transverse brush-off  
Layer stacker with fair ending rollers  
Scissors lift

## Outfeed, concept 3:

Acceleration belt conveyor  
Roller conveyor with transverse brush-off  
Layer stacker with fair ending rollers  
Scissors lift with pack chains  
Pack chains

The ultimate mechanical solution providing high speeds with a minimum of operator attendance could be a combination of all previous concepts.

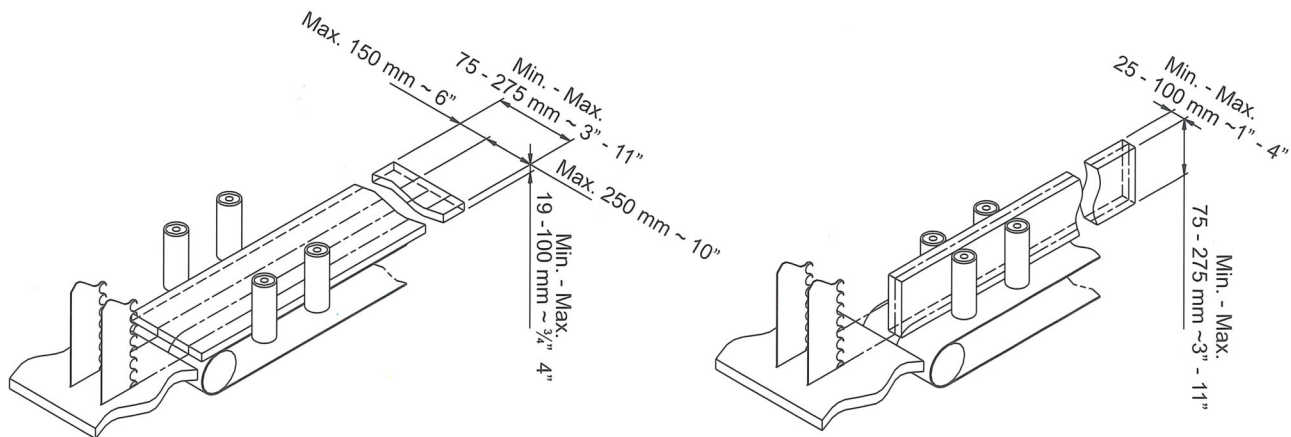


The tilt hoist can be fitted with grips for a very gentle and careful workpiece handling. When processing sticked timber, a valley separator can be installed enabling the system to run fully automatic without operator attention. Without a valley separator, operator attention is requested so that the workpieces do not end up on top of each other.



Infeed to the band resaw. Chain conveyors with a single piece feeding system and roller conveyors ensure an efficient infeed to the band resaw. Thanks to the design of the rollers every work piece moves quickly to the fence and is efficiently and continuously fed into the band resaw. Device for manual rejecting of work pieces is optional.

# Mechanical handling equipment for automated infeed and outfeed of band resaws



## Technical data:

Resaw speed up to:	80 M/min. ~ 24 Ft
Board length:	1.800 - 6.000 mm. ~ 6' ~ 20'
Board width:	75 - 275 mm. 3" ~ 11"
Board thickness:	19 - 100 mm. 3/4" ~ 4"
<b>Flat cutting:</b>	
Board thickness:	19 - 100 mm. 3/4" ~ 4"
Board width:	75 - 275 mm. 3" ~ 11"
<b>Deep cutting:</b>	
Board height:	75 - 275 mm. 3" ~ 11"
Board width:	25 - 100 mm. 3/4" ~ 4"

## Optional:

- Manual rejecting device
- Pack rollers
- Pack chains
- Board turning device
- Core turning device

## Cutting pattern:

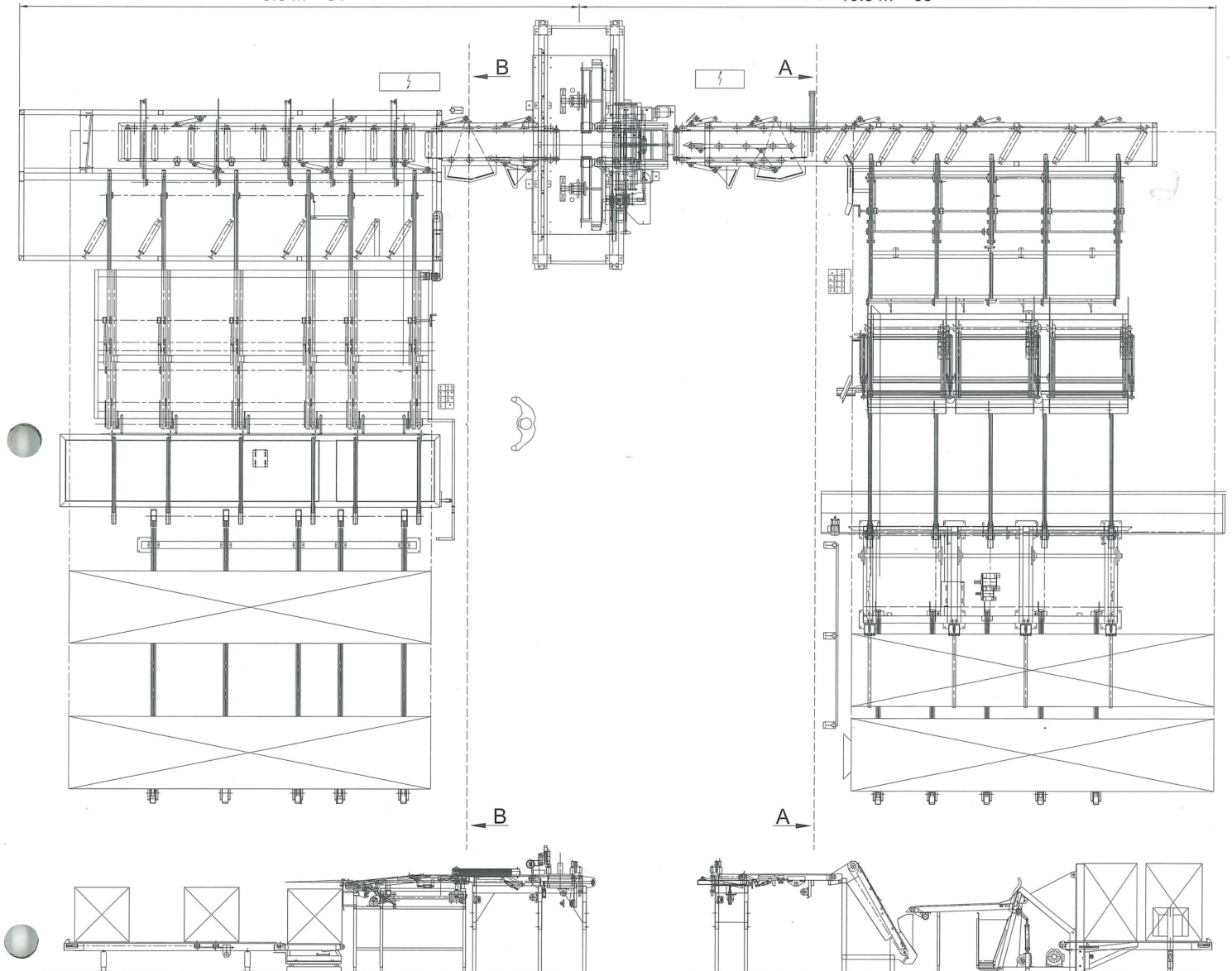
- Centre cutting
- Dimension cutting
- Twin line resaws
- Treble line resaws

\*Technical data subject to change without prior notice. The data can vary according to the specific design of the line. Please contact us should you need any further information.

# The ultimate solution

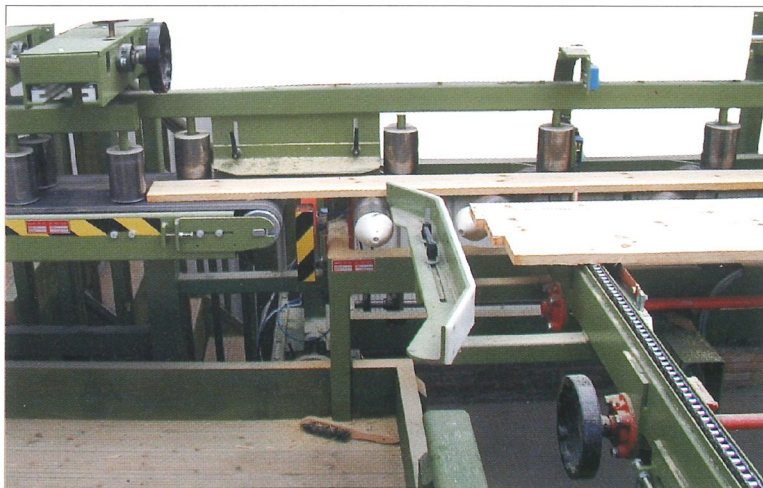
9.3 m ~ 31'

10.5 m ~ 35'

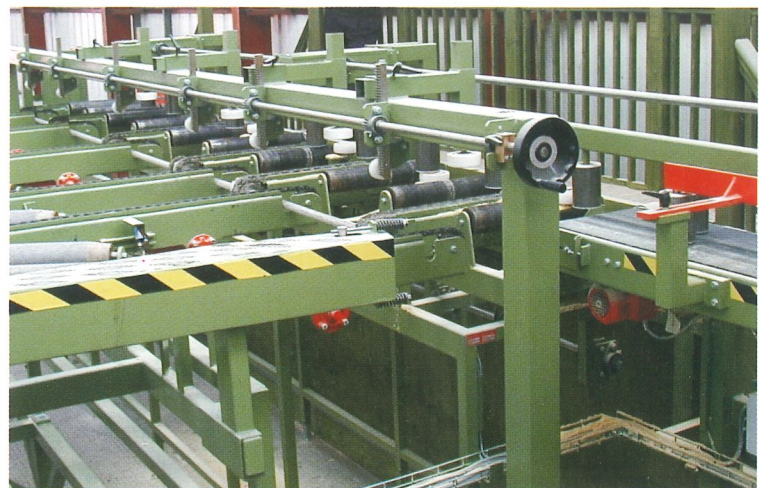


B - B

A - A

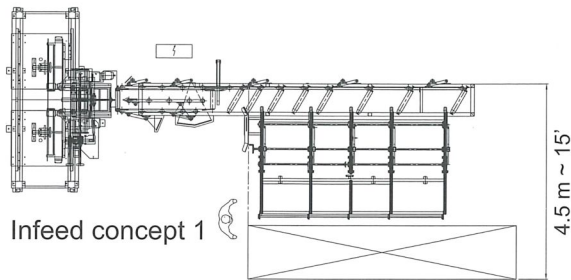


Board raising device. For turning the boards on the edge when deep cutting a pneumatic board raising device is selected.

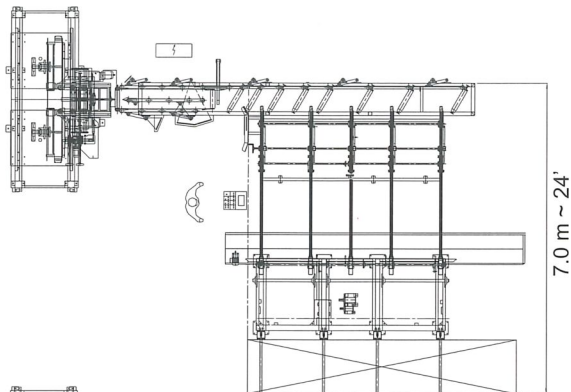


Outfeed from resaw. Here the boards are separated into single pieces and fair ended, or the boards can be collated together as sawn, ready for stacking.

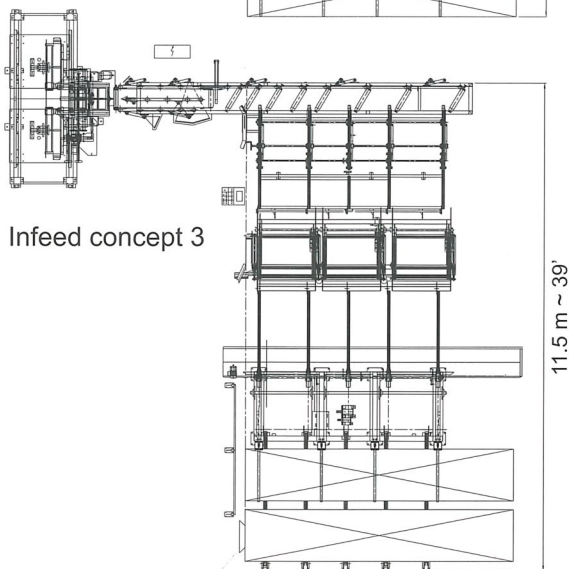
# Mechanical infeed solutions



Infeed concept 1



Infeed concept 3



Mechanical handling equipment gives you the following advantages:

- Labour savings
- Increased production
- Better utilisation of the resaw's capacity
- No manual handling or heavy lifting
- No repetitive strain injuries
- High reliability
- Minimum level of maintenance
- High level of flexibility
- A user friendly design
- Fast and easy operation with low set-up time between production runs

### Infeed, concept 1:

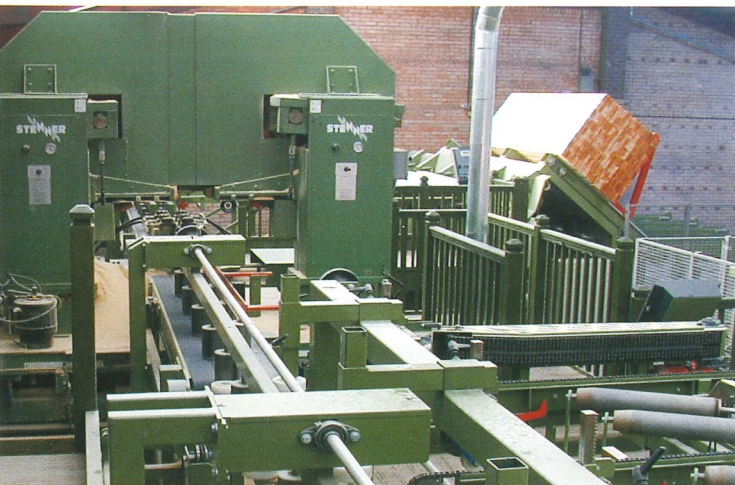
- Cross chains for manual feeding
- Infeed roller conveyors
- Board raising device
- Acceleration belt conveyor

### Infeed, concept 2:

- Tilt hoist
- Cross chains for manual feeding
- Infeed roller conveyors
- Board raising device
- Acceleration belt conveyor

### Infeed concept 3:

- Infeed pack chains
- Tilt hoist
- Stick belt
- Cross chain conveyor
- Valley separator
- Cross chains for manual feeding
- Infeed roller conveyor
- Board raising device
- Acceleration belt conveyor



After resawing the work pieces are now ready for stacking.



Layer stacker for efficient and reliable stacking of work pieces. After processing the work pieces are automatically and reliably stacked into layers forming a complete package.

# Automation for the timber industry

Founded in 1977, System TM began producing high quality woodworking machinery and advanced systems for the solid timber industry. System TM's strategy is to create, develop and manufacture first class system solutions for the optimization of timber and human resources within the production of value added timber products.



Today our product range includes:

- Optimizing cross cut saw
- Mechanical handling equipment
- Sorting and grading of solid timber
- Sticking and stacking



## System TM A/S

Skovdalsvej 35  
8300 Odder  
Denmark  
Phone: +45 86 54 33 55  
Fax: +45 86 54 32 19  
E-mail: [tm@systemtm.com](mailto:tm@systemtm.com)  
Internet: [www.systemtm.com](http://www.systemtm.com)

## System TM United Kingdom

26 Fiona Drive,  
Thurnby  
Leicester LE7 9RF  
United Kingdom  
Phone: +44 116 243 44 28  
Fax: +44 116 243 44 27  
E-mail: [tm@systemtm.co.uk](mailto:tm@systemtm.co.uk)

## System TM North America Inc.

2007 Yanceyville Street  
Greensboro  
North Carolina 27405  
USA  
Phone: +1 336 510 2232  
Fax: +1 336 510 2229  
E-mail: [tm@systemtm.com](mailto:tm@systemtm.com)

**Distributor:**