

Multiple cross cut solutions



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High cutting capacity

Today multiple cross cutting is the most efficient way of cutting timber. With basis from our experiences with major Scandinavian and European producers of pallets and packaging, this concept is designed to match the needs for a reliable, uniform and extremely fast cutting and handling of packaged to length timber.

With a multiple cross cutting system you will achieve an optimum utilisation of packaged to length timber as well as an extremely high cutting capacity with less labour.

With the addition of various standard handling systems even greater performance and reduced labour resources can be achieved.

With the automation of both the infeed and the outfeed of the saw unit, the saw capacity can be even further increased, providing a cutting capacity in excess of 220,000 boards per shift!

If defect cross cutting/optimizing are prerequisites, we can offer you a comprehensive range of optimising cross cut saws as well as standard mechanical handling solutions, or we can deliver you a customized solution with for example scanner technology.

Regardless of size, all installations are subject to pre-delivery testing and installation at our facilities ensuring you a fast and safe commissioning.



With a tilt hoist infeed the cutting capacity can be greatly increased. For the safe and careful handling, the tilt hoist can be equipped with hold back arms, ensuring gentle and well-controlled descent onto the cross chain conveyor, reducing noise and damage to the timber or chains.



Automatic separation of the incoming boards followed by an automatic fair-ending of the boards ensuring a fast and continuous infeed to the saw.



Before cutting, the boards are automatically collated into layers and, in one movement, efficiently fed into the saw.



A multiple cross cut system can be equipped with up to eight saw units. Each unit can be either manually, electronically or CNC adjustable. The saw units are suspended on a height adjustable gantry so that all units can be set at a time.

Reliable, careful and fast cutting



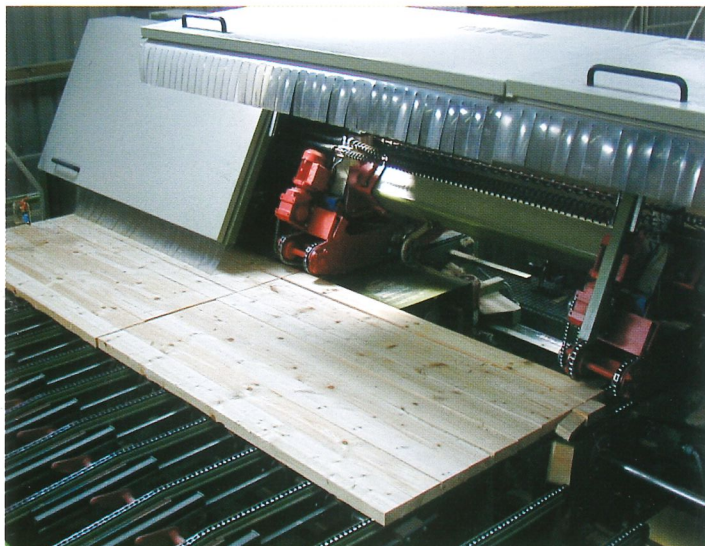
Stability sticks can be placed between a requested number of layers ensuring high stability and transportability of timber packs.

A multiple cross cut line gives you the following advantages:

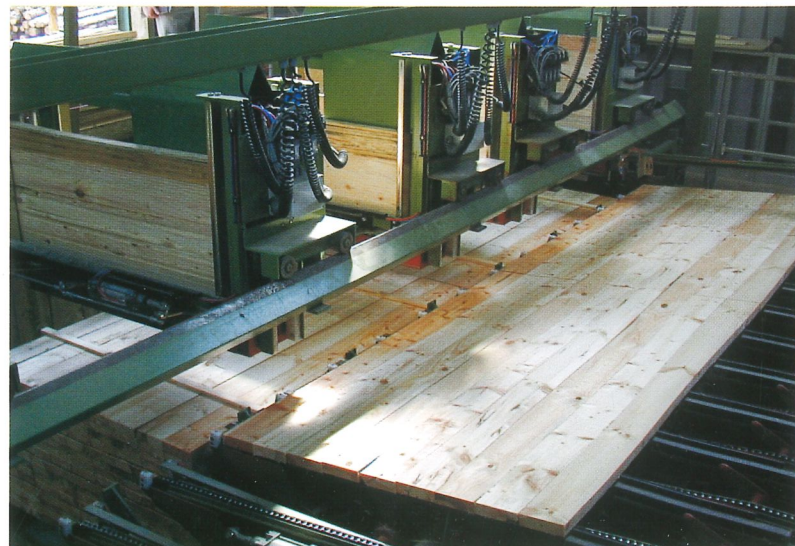
- Extremely high cutting capacity with a minimum of labour
- Higher utilisation of packaged to length timber
- Minimum set-up time between production runs
- Customised cross cut systems with high flexibility and can be adapted to different timber dimensions.
- Electronic or CNC adjustable saw units for a rapid and accurate setting
- Strong construction
- Stacking of components into layers separated by stability sticks or brick stacking ensuring high stability and transportability of the stacks.
- Automatic removal of finished packs during operation



User-friendly Window based software ensures an easy to use programme. Just enter the dimensions for cross cutting and the saw will automatically adjust into the new position.



After cutting the boards are automatically and reliably stacked into layers.



Each layer is automatically stacked using a backstop which holds back the last workpiece in the layer ensuring a very neat and reliable stacking.

Multiple cross cut solutions for high speed and reliable handling

Technical data:

Workpiece length:	1,800 (1,500) - 6,000 mm 5'-10" (4' -11") 19"- 9'
Min. cutting length:	600 (450) mm 2' (1' - 5 3/4")
Max. cutting height:	100 (125) mm 4" (5")
Pack dimension, WxH:	1,200 x 1,700 mm 4' (5'-7")
Max. pack weight:	4,000 kg (6,000 kg) 8,800 lbs (13,200 lbs)
Max. saw capacity:	10-12 layers/minute

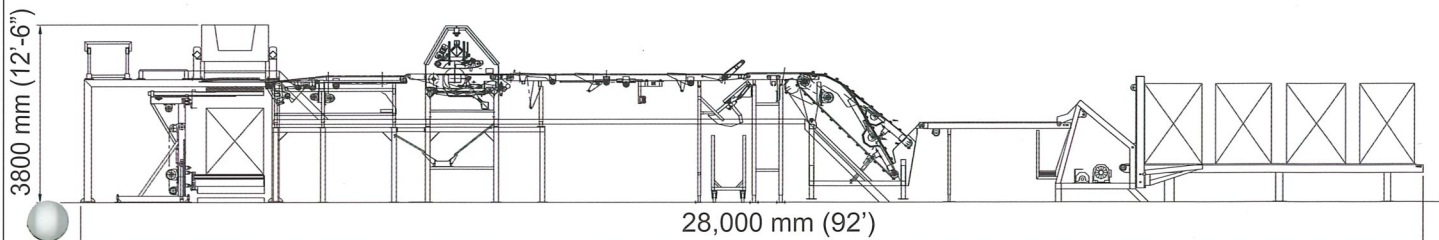
(Optional)

Capacity example:

An automated multiple cross cut line with 5 saw units can perform the following:

Required layer width:	1,200 mm (4')
Timber dimension (thickness x width):	25 x 100 mm (1"x4")
Number of boards in each layer:	11 boards
Efficient working time:	7.5 hours / shift with 70% efficiency = 315 min.
Capacity in layers (adjustable):	10 layers / min.
Number of incoming boards with a width of 100 mm:	34,650 boards / shift
Output with 5 saw units:	138,600 components / shift

Lifting table Stick magazine Saw unit Cross chain Separator Tilt hoist Pack chain



Optional:

A multiple cross cut line can be equipped with a number of optional extras such as:

- Reject station for outsourcing of defective boards before cutting
- Automatic removal or handling of stability sticks
- Drop sorting line for sorting of incoming timber by dimension or quality.
- Automatic delivery of timber to or from the line
- Semiautomatic or fullautomatic strapping of finished packs.

System design:

A multiple cross cut line can be delivered as an individual machine or it can be built in as a part of a system. For example, it can be installed directly after a green mill saw line. We can deliver you a standard solution or a customized solution, if required.

*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.

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



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