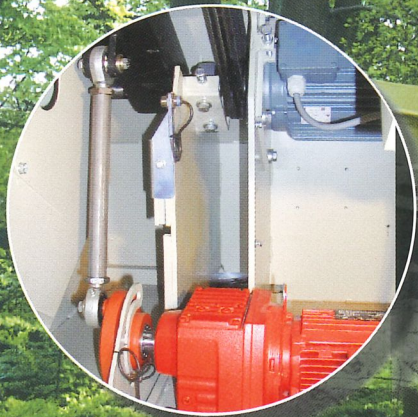


Optimizing cross cut saw

opti-kap 2002



opti-kap 2002 optimizing cross cut saw

The competitive solution

The **opti-kap 2002** optimizing cross cut saw with manual defect marking and division of the board of up to 8 different qualities. The saw is designed for cross sections of different wood species or finished components. It has a universal application and handles all timber species in most dimensions. The saw represents the most modern technology but still very easy to operate and is designed to deliver an output from 9,500 running metres (31,168 ft) per shift, but is also suitable for smaller volumes.

The **opti-kap 2002** has a very durable construction with machine elements of extremely high quality in order to provide the optimum capacity, longevity and reliability.

You can choose between the following ways of optimizing.

Value optimization.

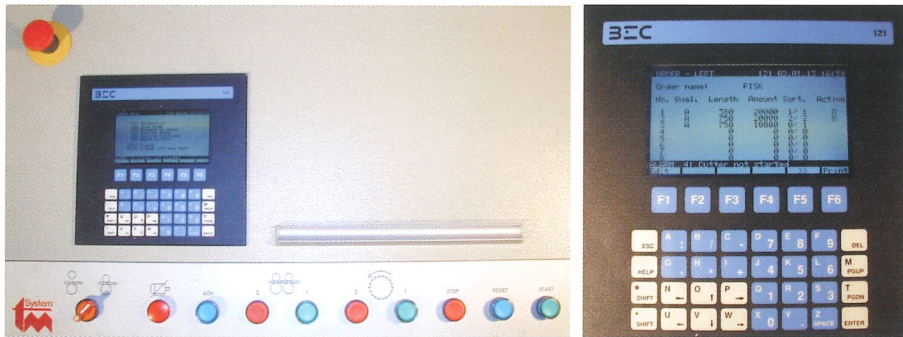
This kind of optimization maximises the value of the cut wood.

Parallel ending of cutting lists.

This kind of optimizing ends the cutting lists at the same time. The same percentage of each different length in the cutting list is continuously produced.

Finger jointing.

You can choose to use the surplus material and/or material of a particular quality for finger jointing.



Software that everyone can operate.
Just enter the cutting list and off you go !

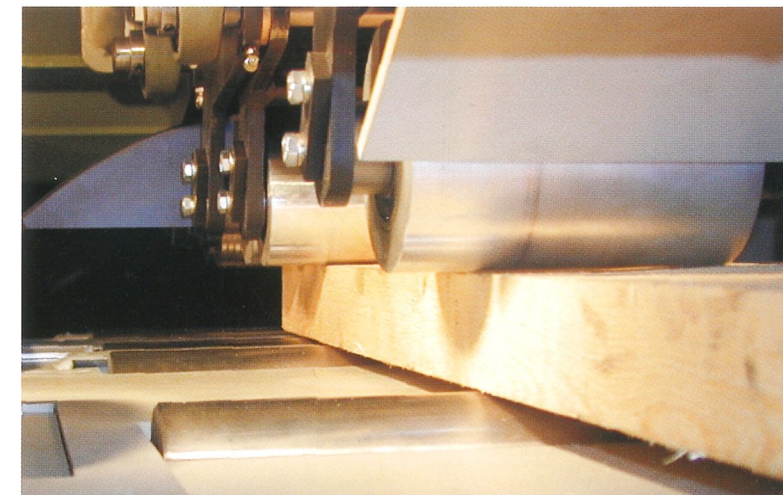
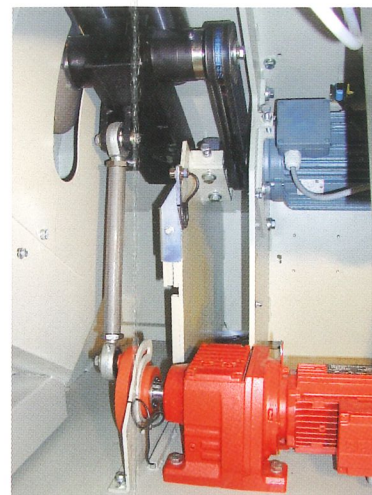


- Cutting methods:
- Cross cutting of fixed lengths
 - Defect cross cutting
 - Cutting out defects and fixed lengths
 - Optimizing cross cutting

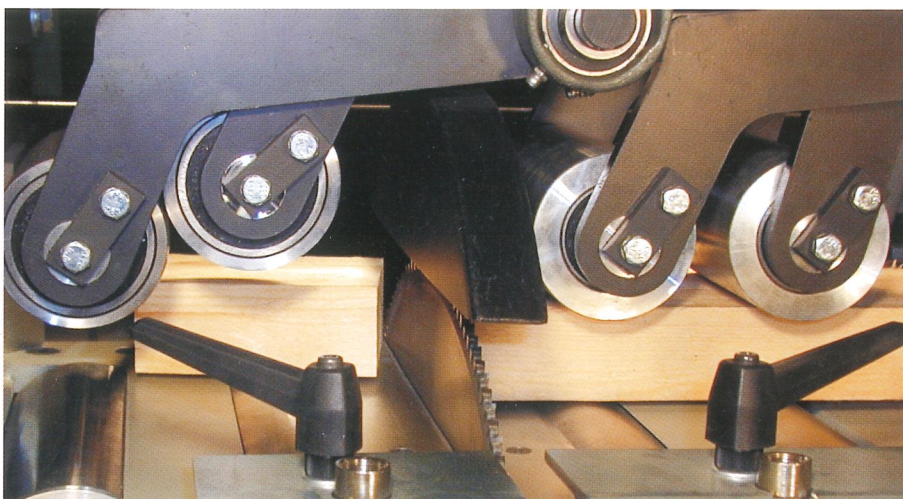
Usable waste.

If a very bad cutting combination with a large waste percentage, you can run these usable pieces out of the saw together with the cutting lists.

Vertical movement of the saw blade is carried out by an electrically controlled eccentric providing a smooth saw cycle with no perceptible top and bottom settings. This principle provides extreme reliability and minimum maintenance.

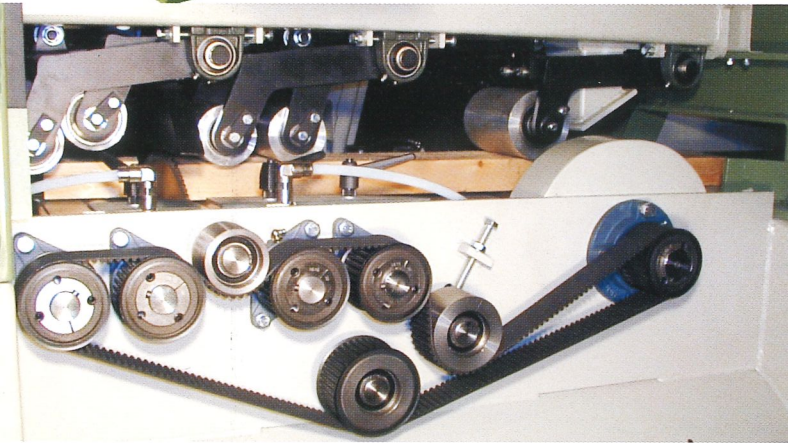
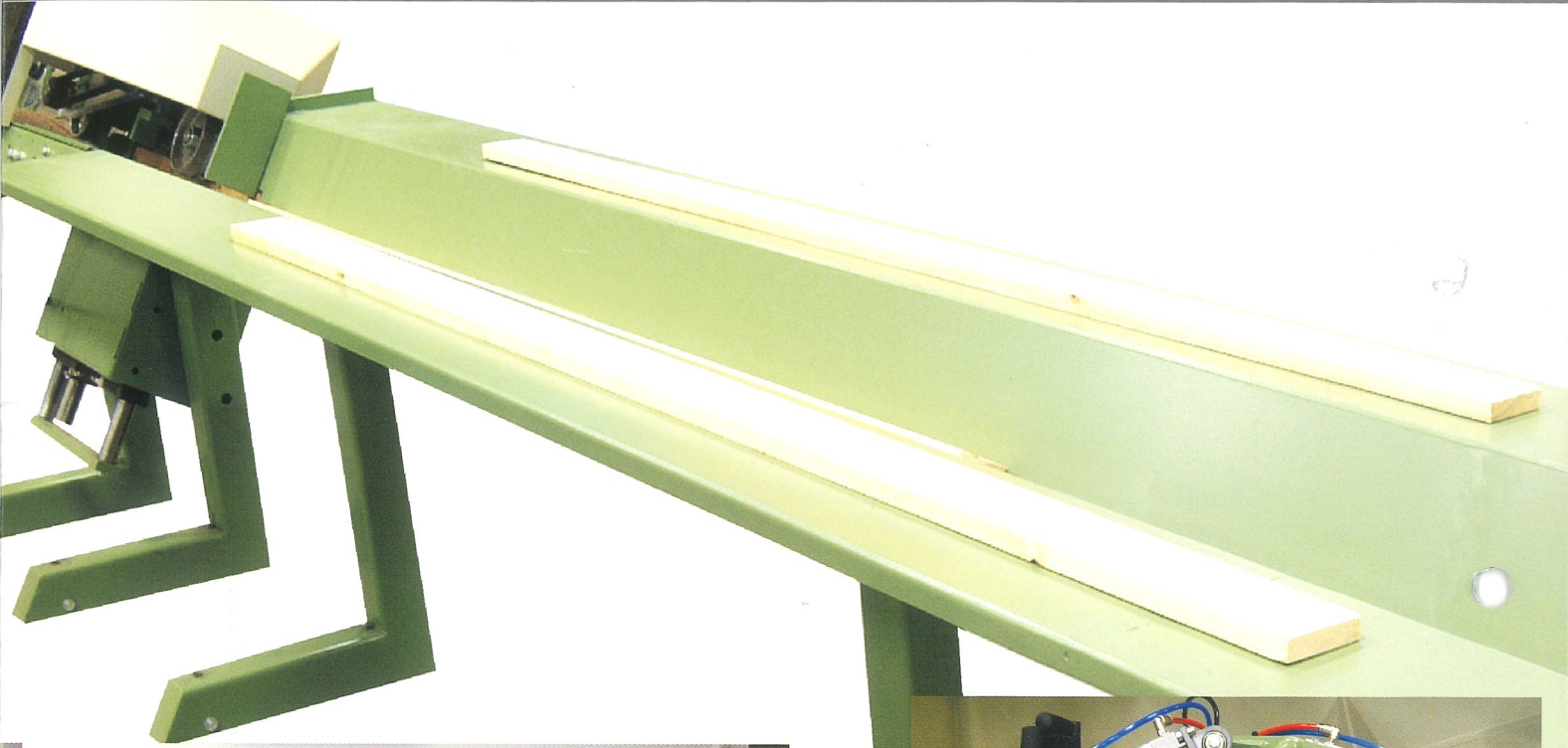


The bottom feed rollers are set high above the bed plate which ensures that even very bent, twisted workpieces do not get stuck in the machine. This gives you even more productivity.

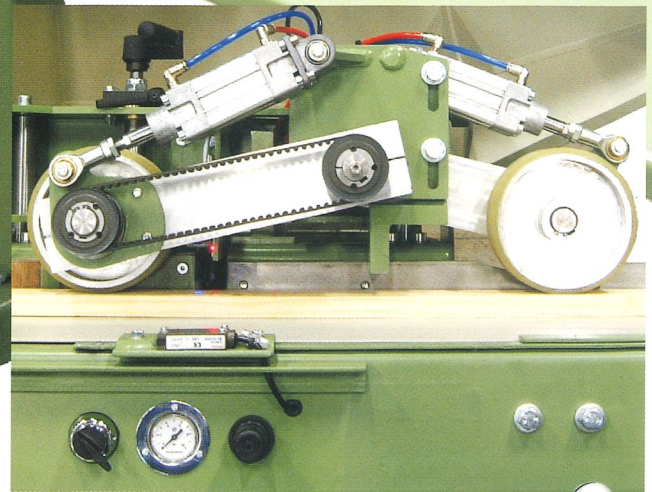


Waste and defects are efficiently removed by air nozzles from a 30 ° angle and blown out of the back of the saw.

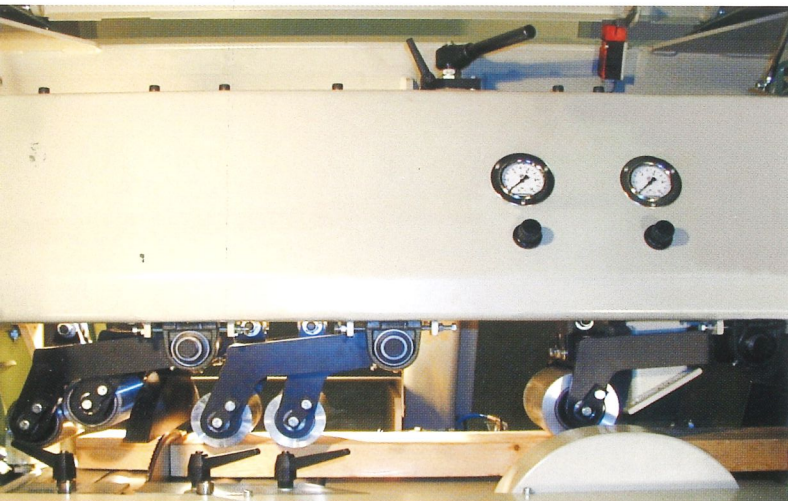
Heavy duty construction



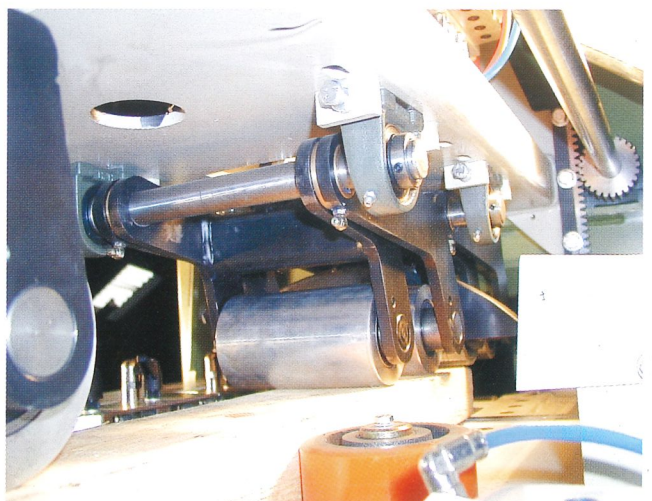
A strong timing belt driven by a servo drive motor connected to the bottom rollers. A very durable solution with a minimum of maintenance.



Heavy duty measuring unit designed for a long lifetime. The raw workpiece is measured before cutting.

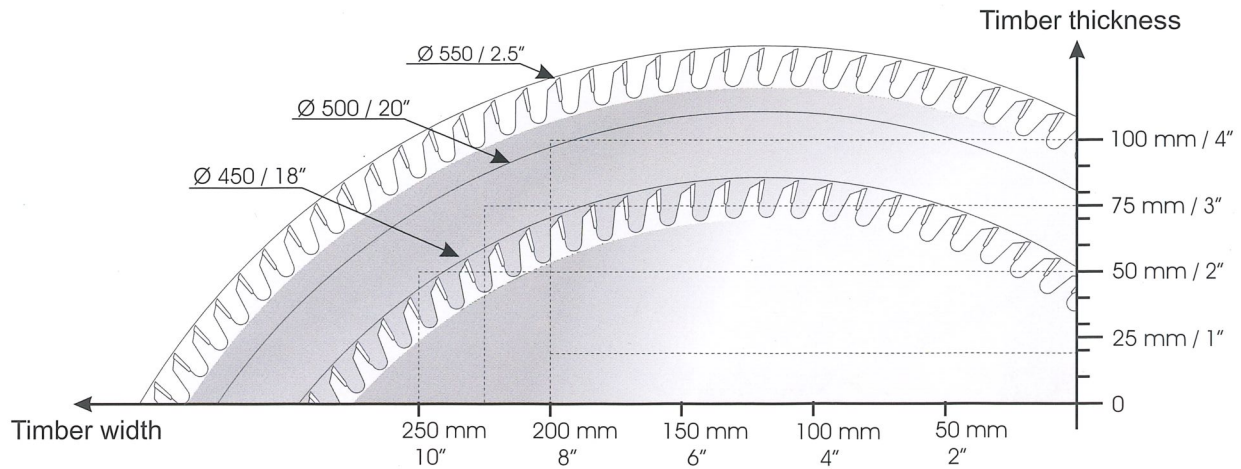


A very heavy duty top pressure assembly with double side supported top pressure rollers, made of aluminium, ensures maximum contact between the workpiece and feed rollers (also supported on both sides). This relates to a highly reliable cutting precision.



Suspended both sides, the top pressure and drive rollers ensure accurate feed and reliability - also of bent or twisted workpieces.

Cross cut saw opti-kap 2002 with defect and quality marking and full optimization



Technical data:

Minimum length incoming 900 mm (36")
 Maximum length incoming 6300 mm (20' 8")

Workpiece dimension with 500 mm blade max. 63x250 / 75x225 mm
 Workpiece dimension with 550 mm blade max. 75x250 / 100x200 mm

Workpiece dimension with 20" mm blade max. 2 1/2"x10" / 3"x9"
 Workpiece dimension with 21 5/8" mm blade max. 3"x10" / 4"x8"

Saw data:

Capacity: 50m/min (164 fpm) with incoming lengths of 4.2m (14') and cut lengths of 1,000mm (39") and trimming front and rear making a total of 5 cuts.

Cutting accuracy: 0 - 1,000 mm (0 - 39") ± 1 mm (0.04")
 1,000 - 6,000 mm (39" - 20') (± 0.001 of the cut lengths)
 The accuracy is dependent on the condition of the workpiece.

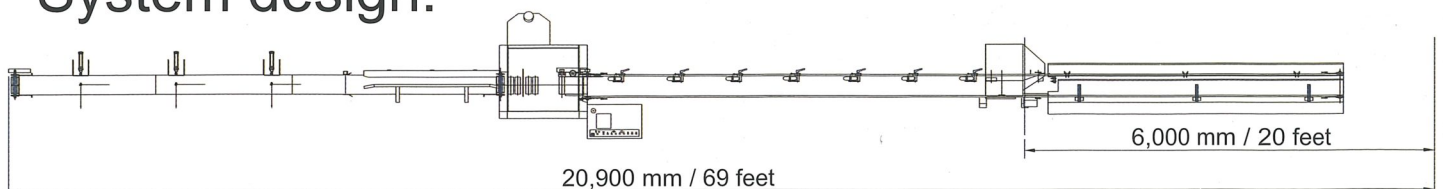
Cutting Time: 0.20 sec.
 Saw cycle for 1,000 mm (39") piece.: 0.88 sec.
 Saw cycle for 500 mm (19 1/2") piece.: 0.68 sec.
 Acceleration 0 - 100%: 0.14 sec.
 Feed speed: 0 - 150 m/min (500 fpm)
 Air consumption: 140 liters / min - 6 bar (5 cu ft / min @ 120 psi)

Optional:

- Thickness and width measuring
- Windows user interface
- Extra sensor for quality marking from the side
- Printer for printing of statistics, cutting lists and machine set-up
- PC program for simulation of production
- Sensor for increased cutting accuracy in long lengths

*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.

System design:



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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