



THE EFFICIENT LOW-COST  
ALTERNATIVE FOR  
CUTTING WOOD



**SLIM-LINE**

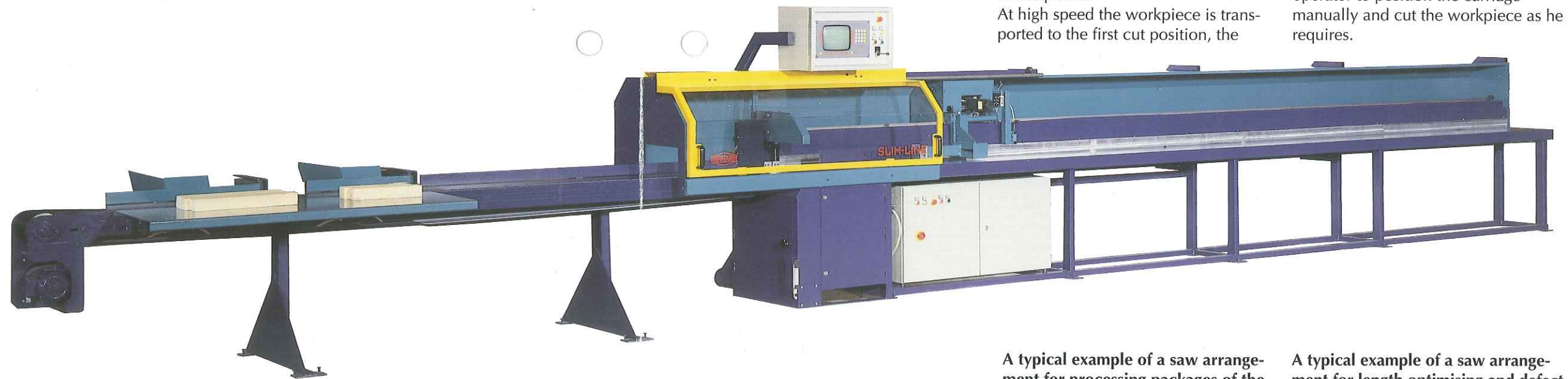
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## THE EFFICIENT LOW-COST ALTERNATIVE

The design concept of the SLIM LINE is to use well proven, reliable components in combination with cost effective CNC technology.

Constantly changing cutting orders are produced accurately, efficiently and at speed by using the Reinhardt System CONTROL 5.0



## OPERATION

The operator places the workpiece on the infeed table. The pushing plate lifts and the positioning carriage runs back over the workpiece. On the return travel the workpiece is measured and the position of any operator applied chalk marks are recorded in the computer (see the CONTROL 5.0 data sheet). When the positioning carriage has run over the back end of the workpiece, the carriage stops and the push plate lowers ready for the forward push and cut sequence. At high speed the workpiece is transported to the first cut position, the

carriage stops, the clamp comes on and the cut takes place. When the cut is finished the top clamp comes off and the carriage advances the workpiece to the second cut position and so on. Waste and trim pieces fall into the waste chute, cut lengths are pushed out and if required can be sorted into lengths or batches by kicking the pieces from the outfeed belt into piles. An additional feature is the „joystick“ on the control panel that enables the operator to position the carriage manually and cut the workpiece as he requires.

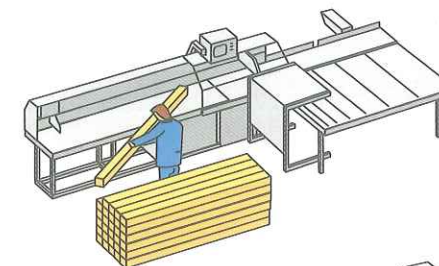
## THE UNIVERSAL CUT-OFF SAW

For a wide variety of applications, including the cutting of waney edge boards, planed or rough sawn timber and some profiles in wood or PVC.

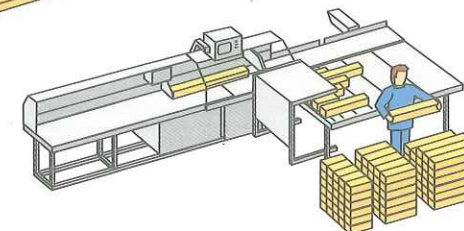
### Features includes:

- positional accuracy +/- 0.2 mm
- faster, more reliably accurate and much more flexible than manual sawing systems.
- efficient count and control of raw material and cut parts.

- less physical effort required from your operator.
- interactive with office production computers.
- high quality finished cut for profiled materials.
- rugged, extra duty construction for tough daily use.

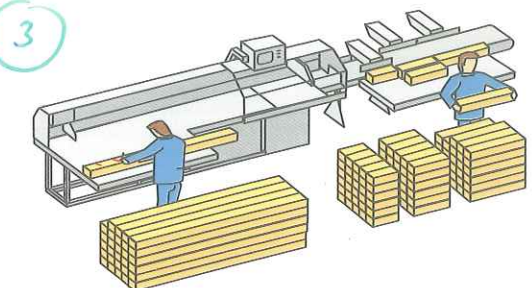


1



2

3



A typical example of a saw arrangement for processing packages of the same length, without defects.

- pieces can be cut in single or multiple piece loads depending on the size of the cross section (see the cut diagram).
- cut pieces are sideways ejected to a crossfeed conveyor, these pieces sorted into piles by the operator.

A typical example of a saw arrangement for length optimising and defect removal.

- boards are generally cut as single piece loads but where there are no defects and the boards are of very similar length, optimising is possible in multiple piece loads.
- cut pieces are sorted as required on the outfeed conveyor by the use of kickers.

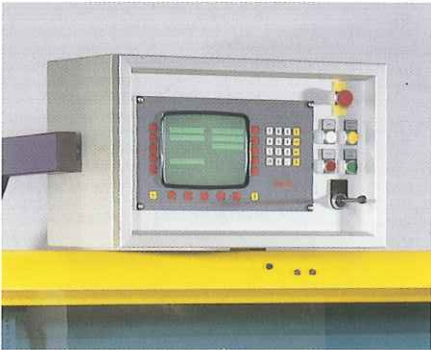
# FUNCTION

# CONCEPT

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## PRECISE AND EFFICIENT CUTTING

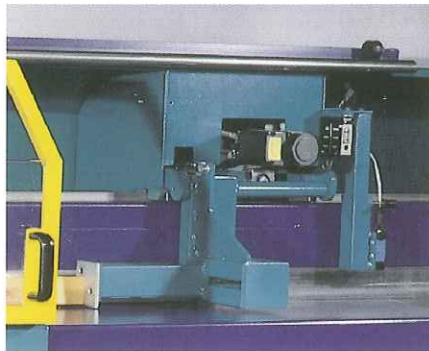


With the user friendly CONTROL 5.0 system, the operator can select, for each job, the software and machine functions for efficient processing.

The separate data sheet, CONTROL 5.0 gives all the details of the options available.



Side pressure ensures square cuts.



The robust „pushing carriage“ moves to position with an accuracy of  $\pm 0.2$  mm. The cut length accuracy will depend on the raw material condition.



Short trim and waste pieces can be removed at the saw by automatically dropping the first, short section of the outfeed table.



Operator applied fluorescent chalk marks can be detected by the travelling camera. The saw can then cut on the marks for simple defect removal or use the marks to make optimised cutting decisions.



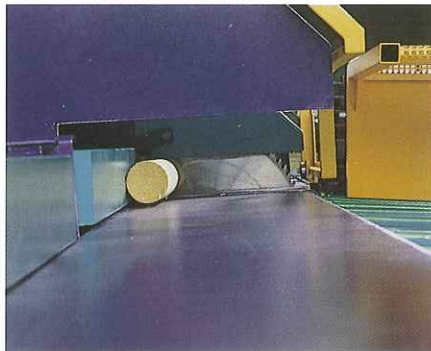
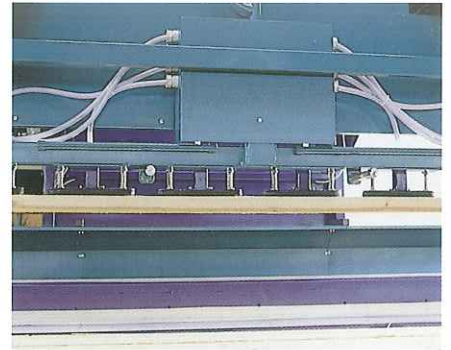
Cut pieces are taken away by the outfeed conveyor and kicked sideways into sorted piles.

## APPLICATION EXAMPLES

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Automatic loading of the saw using a vacuum lift



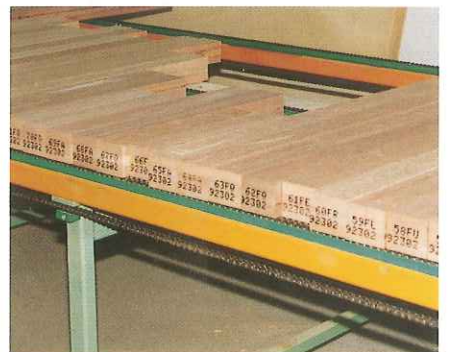
Cutting of round material



The system fitted with a special saw for angle cutting



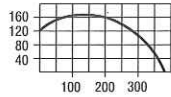
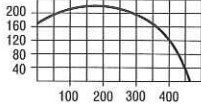
Fully automatic infeed loading conveyor used on a machine in the packaging industry.



Automatic ink-jet marking of cut components for the window industry



## TECHNICAL DATA

TYPE		SL 160	SL 160 S
Cutting diagram			
Height of cut max.	mm	165	220
Width of cut max.	mm	380	460
Saw motor	kW	5,5	5,5
Saw blade diameter (max.)	mm	500	600
Speed	rpm	2800	2800
Saw stroke		pneumatic	pneumatic
Height of work	mm	800	800
Suction duct	mm	1 x Ø 120 1 x Ø 100	1 x Ø 120 1 x Ø 100



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