REINHARDT

COMPUTER-CONTROLLED CROSS-CUT SYSTEM WITH CUTTING OPTIMIZATION FOR TRIMMED WORKPIECES

VARIO-LINE

ECONOMIC CUTTING TO SIZE

Wood is scarce and expensive. Obtaining the required quantities, quality and dimensions is getting more and more difficult.

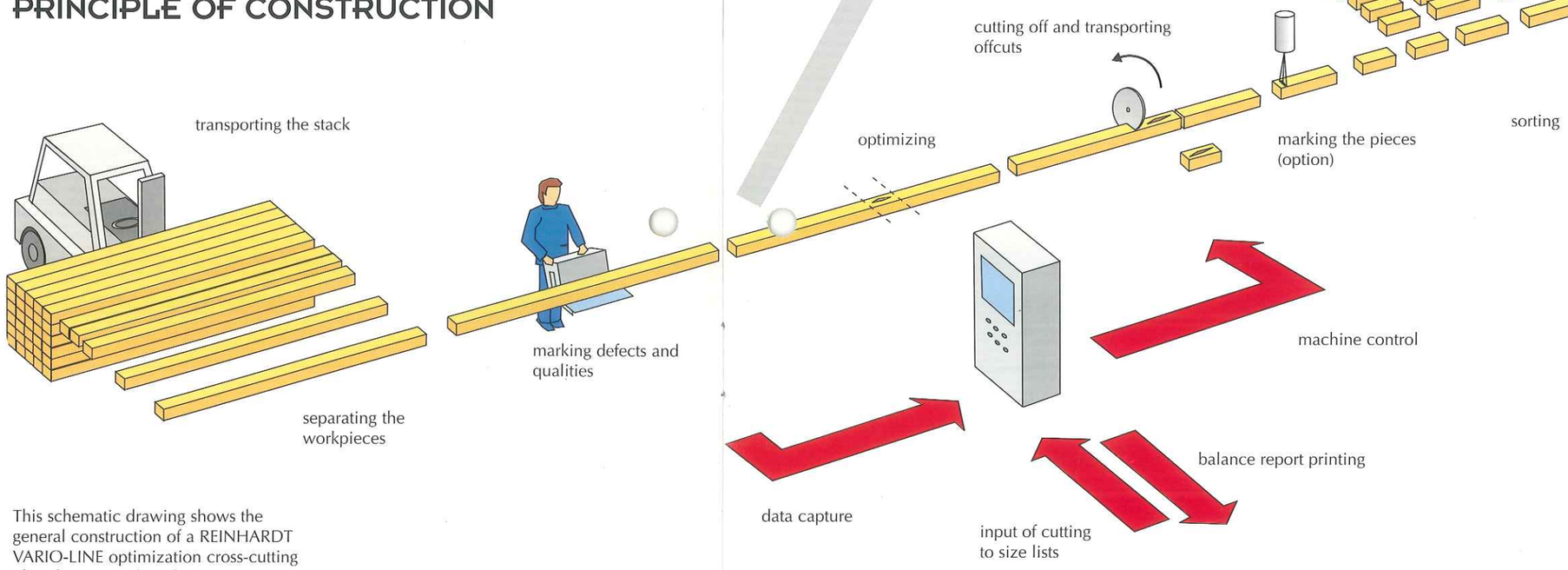
VARIO-LINE guarantees optimum cutting to size and therefore the greatest yield and great value.

VARIO-LINE relieves the operator of physical work so that he can concentrate entirely on judging the wood.

VARIO-LINE rationalises the production enormously.

VARIO-LINE amortises in the shortest time.

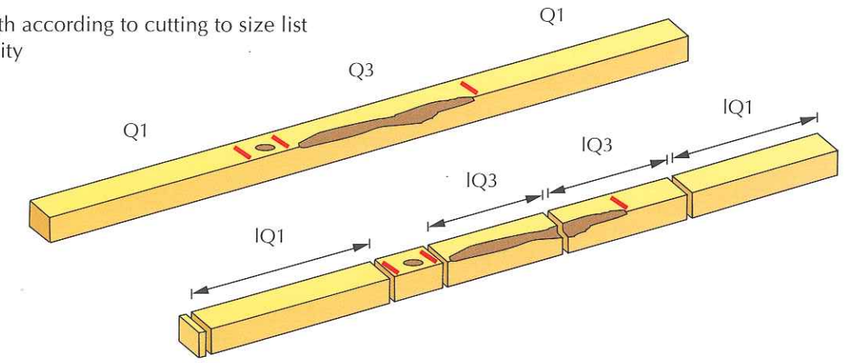
PRINCIPLE OF CONSTRUCTION



This schematic drawing shows the general construction of a REINHARDT VARIO-LINE optimization cross-cutting plant for trimmed workpieces.

FULL OPTIMIZING WITH VARIO-LINE

l = Length according to cutting to size list
Q = Quality



FUNCTION CONCEPT

MANUAL BAR MARKING

- The operator marks defects and qualities on the workpiece using fluoroscent chalk.
- The measurement station picks up the length of the workpiece and the bar marking.
- All the data are processed by the optimization computer which combines the measurements so that the best cutting optimization is obtained.
- The saw cuts off defects and cuts to the calculated fixed lengths.

VARIANT A - "THE IN-LINE PRINCIPLE"

The workpiece is transported through the measurement station and measured at the same time.
A transport length is required between the measurement station and saw, which corresponds to the maximum length of workpieces. Therefore, this variant requires a relatively large space.

VARIANT B - "SPACE-SAVER"

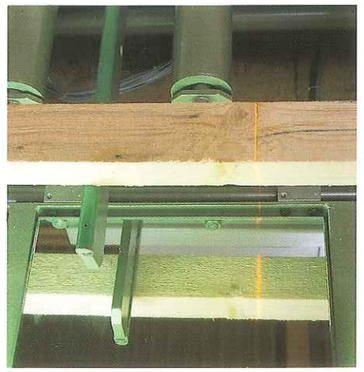
The workpiece is placed on the transverse conveyor and measured automatically by a scanner. At the same time the transverse conveyor acts as a buffer, from which the machine automatically collects the workpiece to be machined.

Measurement is done in parallel with machining. The workpieces are passed to the cross-cut saw by the shortest route. There is no loss of time.

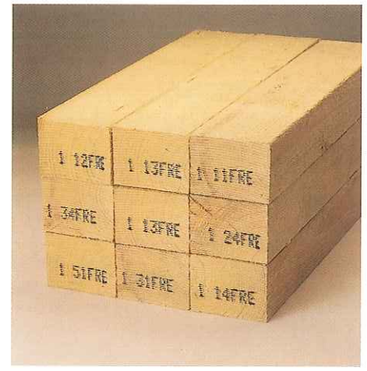
SOLUTION VARIANTS

LASER MARKING WITH MEASURING CARRIAGE

- Defects and qualities are marked by the operator via the measuring carriage with the aid of a laser beam.
- The manual turn of heavy workpieces becomes unnecessary, as the upperside is directly visible and the underside via mirror (see picture below).
- The operator judges and measures the workpieces with the laser beam. Cutting off defects executes by putting the laser beam at the beginning and the end of the defects.
- The distances between the individual defects is shown on the digital display.
- The operator judges and measures the next workpiece while the previous one is being machined.
- The collected data are processed by the optimization computer, which combines the measurements so that there is the least loss.
- The saw cuts off defects and produces the calculated fixed lengths.



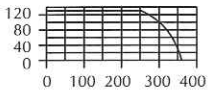
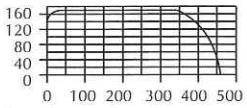
"3 SIDES AT A GLANCE"



If required, the VARIO-LINE can be equipped with an ink-jet printer, which marks the cut workpieces (eg length and identification number or information specific to the firm).

SOLUTION OPTIONS

TECHNICAL DATA

TYPE		NC 160	NC 160 S
Cutting diagram			
Height of cut max.	mm	125	165
Width of cut max.	mm	350	450
Saw motor	kW	5,5	5,5
Saw blade diameter (max.)	mm	500	600
Speed	rpm	2800	2800
Cutting time	s	0,2-3	0,2-3
Saw stroke		pneumatic	pneumatic
Height adjustment		automatic	automatic
Height of work	mm	800	800
Suction duct	mm	120 diam	120 diam

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DATA