



THE ADDED BONUS FOR YOUR SUCCESS

ALL-IN-ONE SOLUTIONS!
MACHINERY AND EQUIPMENT
FOR

PRECISE AND MULTIPLE

CROSS- CUTTING



KALLFASS
maschinen plus
automation

MULTIPLE CROSS-CUT SAW

THE ALL-ROUNDER

Whether boards, panels, squared timber or round bars, the KALLFASS multiple cross-cut saw cuts workpieces to the desired lengths using millimetre precision. Upon request mitre cuts are available as well.

Typically, MULTIPLE CROSS-CUT SAWS are integrated into fixed-length cutting systems, sorting systems or planing mechanisations. These multiple cross-cut saws can cut both unfinished and planed sawn timber to fixed lengths, with a high cutting accuracy and tolerance of only ± 1 mm at the ends. The workpieces are cut individually or in layers (max. 16 layers/min) and up to a cutting thickness of 200 mm (thicker cutting heights upon request). As an option, the board dimension data sets can also be obtained directly from the ERP system or the customer's master computer.

MACHINE DATA MULTIPLE CROSS-CUT SAW

Fixed saw	right/left
Min. cutting length	500 mm
Max. cutting length	16,000 mm
Max. cutting thickness	200 mm
Cutting accuracy	1 mm
Saw motor output	5.5 - 18 kW
Feed capacity	3 kW
Max. feed rate	50 m/min

FLEXIBLE CUTTING – QUICK RETOOLING

On the one hand, a fast batch change during production is achieved by using stored cutting programmes that allow flexible board cutting. On the other hand, saw aggregates that can be adjusted to any height and arrangement ensure quick changeover times, because a CNC control automatically aligns the aggregates synchronously with the cutting pattern during ongoing production. Assuming six saw aggregates are used, the time needed for changeover is only approx. 30 seconds. Even a mitre cut can be achieved in combination with a saw blade adjustment.

STABLE PROCESSES – SIMPLE OPERATION

If the sawn timber is warped, this can adversely affect the sawing process. Therefore, KALLFASS offers saw aggregates with chain top pressure as well as different transport chains as equipment variants. These aggregates also process warped goods safely. An extraction system integrated into the aggregate ensures a clean production environment. The wood dust is discharged downwards immediately during sawing. Upon request, a discharge through the top is also available.

All system-specific processes are operated in a controlled manner using a PLC control system. As an option, a visualisation feature makes system operation even more user-friendly, as settings can be made either directly on a touch panel or a PC interface.

„PRODUCT SAFETY AT THE HIGHEST LEVEL FOR MANY YEARS - KALLFASS was the first German company to receive the German GS certification mark (Safety Tested) for these systems after type examination.“

„As soon as workpieces only need to be cut to pre-set grid lengths, or defective areas need to be cut out, a trimmer saw, specially designed for this purpose, is used.“

POST-POINTING / FENCING

PERFECTLY POINTED FENCE POSTS

The KALLFASS post-pointing line produces pointed fence posts from squared timber in consistent quality; on request, round-milled at the top or flattened on four sides for gate posts. The low manual effort ensures high productivity and guarantees the required flexibility in processing all orders.

The timber is aligned on the zero line upstream of the post-pointing station. Four circular saws point the squared timber on all four sides using a maximum cutting depth of 200 mm. Between two circular saws, each squared timber is automatically rotated 90°.

The result: Identical fence post packages ready for shipping, stacked with intermediate sticks and strapped.



If required, incising units for surface perforation, as preparation for impregnation with wood preservatives, can also be integrated into a post-pointing production line. Even before perforation, lumisensors detect unsuitable wood marked with luminescent chalk. In this case, the unsuitable wood is sorted and discharged through a flap.

PROFILING SQUARED TIMBER AND BOARDS MAKES FOR A GOOD APPEARANCE

In a post-pointing line, squared timber or boards are milled in a continuous process. For this purpose, the timber is fixed in the profiling unit with clamping holders and rounded on one side. Two motors, working in counter-rotation and in synchronisation, ensure uniform routing without fraying at the edges. Having an output of approx. six pieces per minute, the milling station is highly efficient.





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