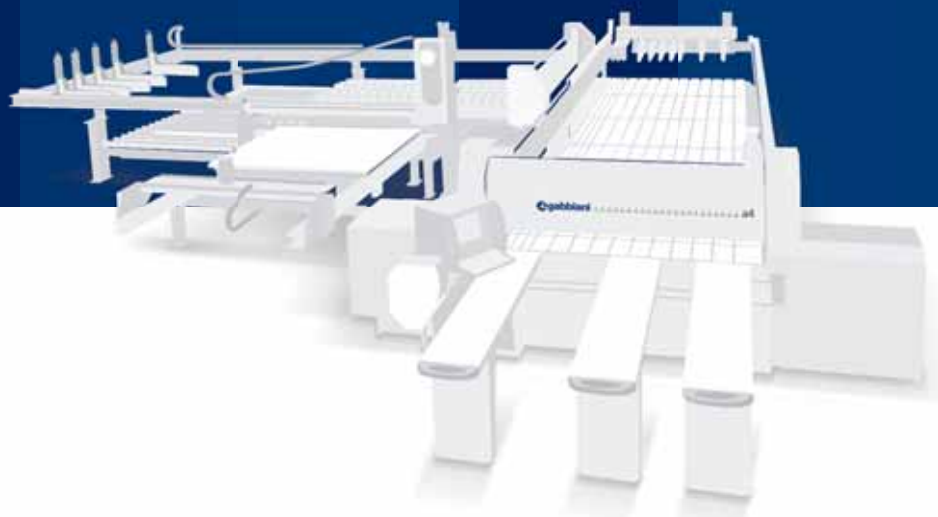


 **gabbiani**



a4
angular panel saw.

a4

angular panel saw

A4 is the new angular panel sizing centre designed to provide the high production rates and maximum reliability specified by industrial woodworking manufacturers. This high capacity machine is available in a wide range of customisable versions and meets the advanced specifications of industrial panel saw users.

- **MAXIMUM INTEGRATION**
with automatic loading/unloading solutions.
- **EXTERNAL ROTATING TABLE**
for high productivity.
- **A LARGE RANGE OF CUSTOMIZED CONFIGURATIONS**



sizing.

edgebanding.

CNC machining centre.

sanding.



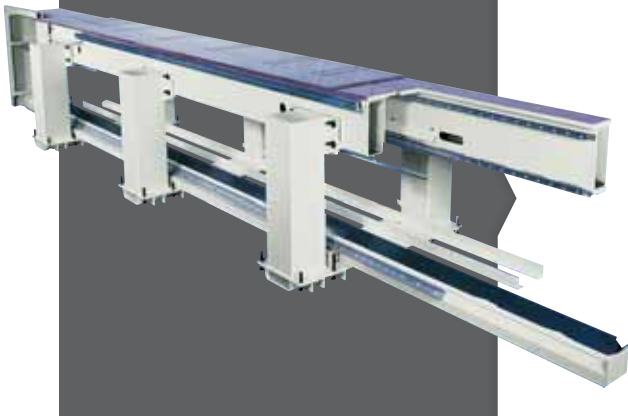
a4

technological **advantages**



SAW CARRIAGE

The sliding guides carriage and the saw units run on prismatic guides with recirculating ball bearings. Guides lubrication is controlled by the machine PLC. This ensures top efficiency, drastically decreases friction and reduces wear. The saw blade carriage is driven by a rack and pinion. Continuous power transmission from the pinion to the rack ensures a smooth run and thus a top quality cut.



CUTTING LINE

The solid structural steelwork used to make the machine frame undergoes special heat treatment to ensure that the frame maintains its original dimensions throughout the entire machine life cycle. The two carriage guides are fixed to the same side of the base in a single upright configuration to guarantee that the blade remains perfectly perpendicular to the panels under all load conditions.



PUSHER BEAM AND SUPPORTS

The pusher is driven by brushless motors. This motor type offers constant torque across the entire operating range thus guaranteeing an immediate response. The strong, "H-section" cross beams are dimensioned to ensure top resistance and stability under all load conditions.



a4

blades group



OPTIMISED BLADE PROTRUSION

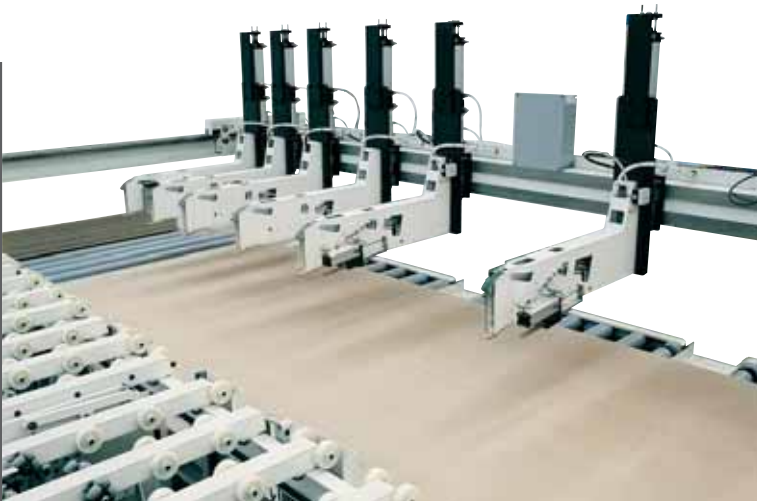
The blade protrusion is changed automatically according to the height of the book to obtain the maximum precision even with a few panels.



BLADES CHANGING

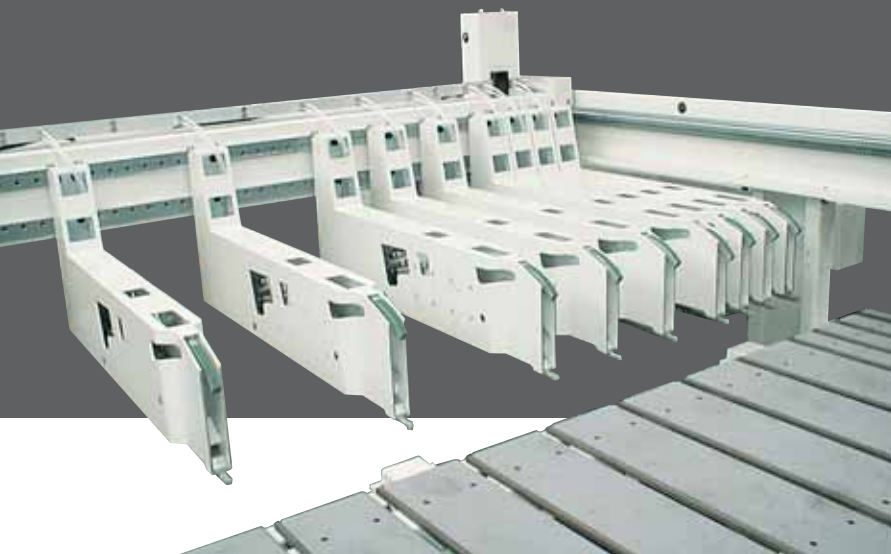
Quick and secure blade changes provided by a pneumatic gear operated by a switch.

clamps group



RIP RISING CLAMPS

The rip clamps are designed to be raised in order to enable return of the pusher to the loading position without delaying the elevator table upstroke.



CROSS RISING CLAMPS

The cross grippers are raised so that the cut strips can accumulate on the crossways machine table while the pusher is still busy with cutting finished parts.



a4

optionals

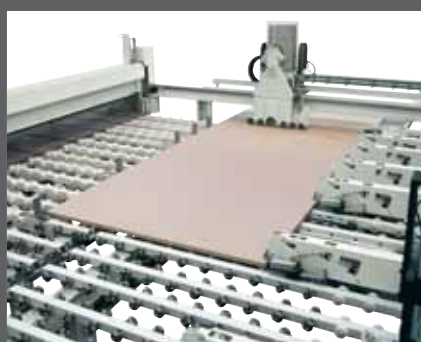


EXTERNAL ROTATING TABLE FOR HEAD-CUT

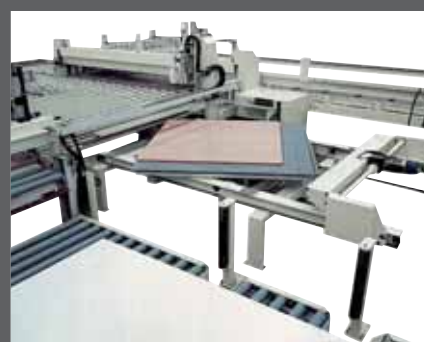
The Gabbiani patented system for automatic head-cut execution is composed of a third cutting axis and of an external rotating table. The device, working in hidden time, guarantees excellent production output even with high percentages of pre-cutting for a better use of the panel surfaces.



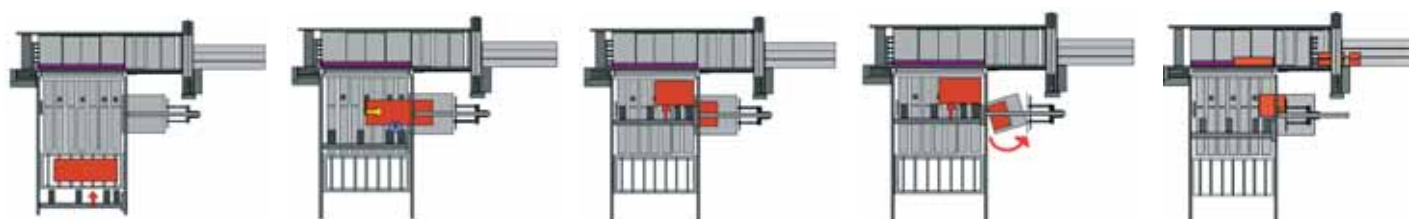
Aligning device with head-cut automatic insertion.

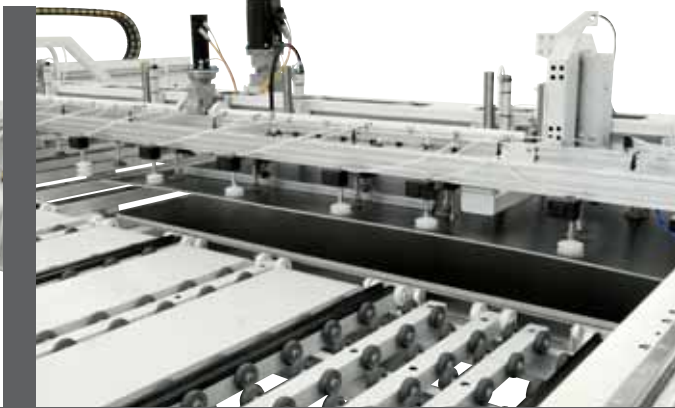


Head-cut execution with third cutting axis.



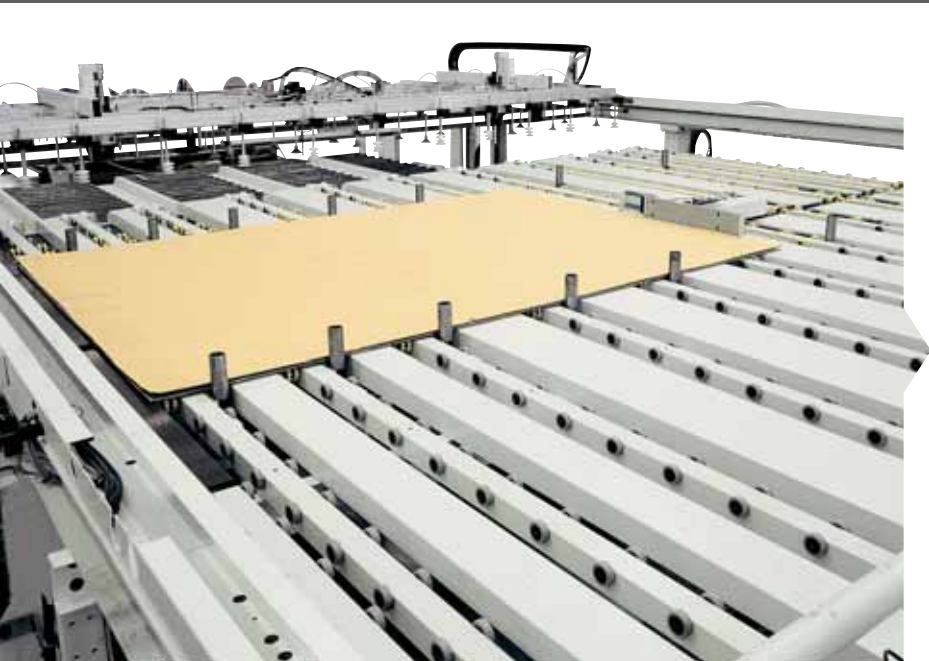
Automatic rotation and re-insertion of the head-cut.





POWERED SUCTION CUP LOADING SYSTEM

Very quick feeding device for thin boards and/or delicate laminated boards.



The system is integrated in the machine and with the minimum space requirement. Moreover it has two advantages: it can load single panel (by vacuum cup) and a stack of panels (by stakes).

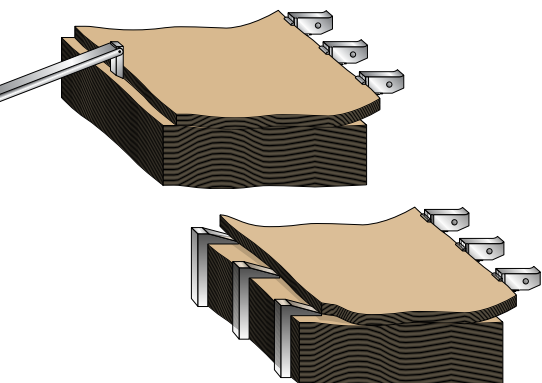
In case of loading thin panels, the suction device takes the single panel and puts it down in hidden time in the alignment station inside the machine.

It is possible to fit a board pre-detaching device with suction cup and blowing wedge.



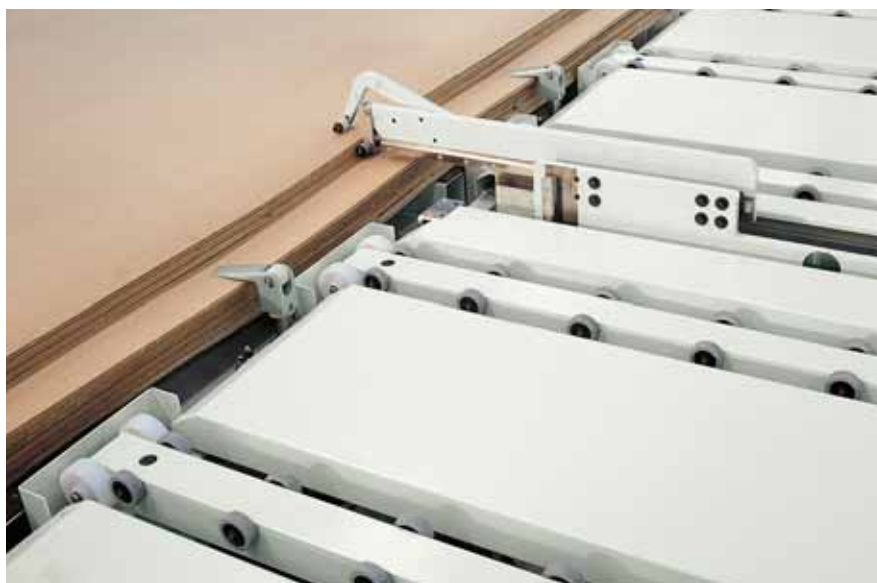
a4

optionals



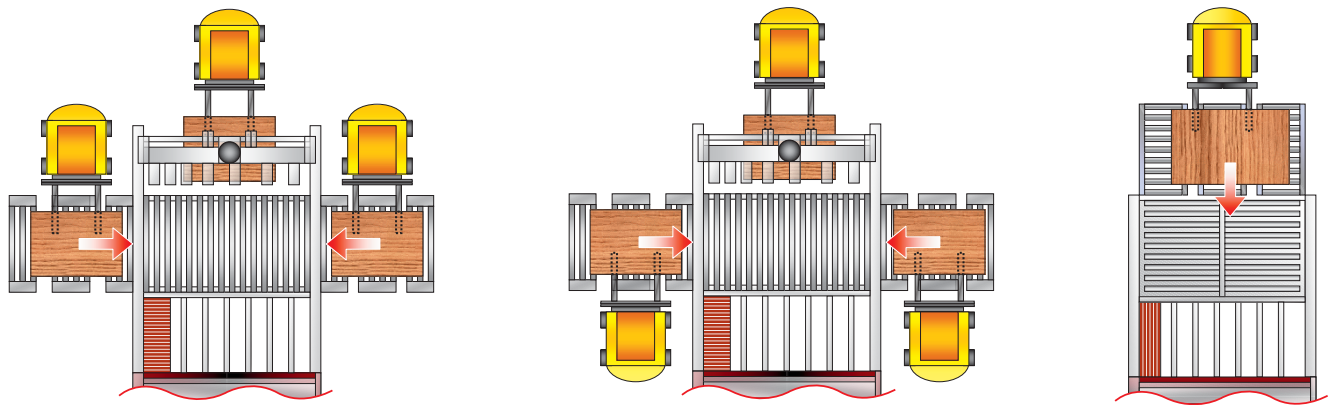
LOADING OF THIN PANELS

Solution established over time that, thanks to structural simplicity, ensures a precise and effective automatic loading of the thin panels.



PRELOADING ROLLER CONVEYORS

One or more preloading roller conveyors allow the endless running of the saw. Loading and unloading systems of the "half stack" and the baseboard or pallet handling offer effective solutions to space and production needs.



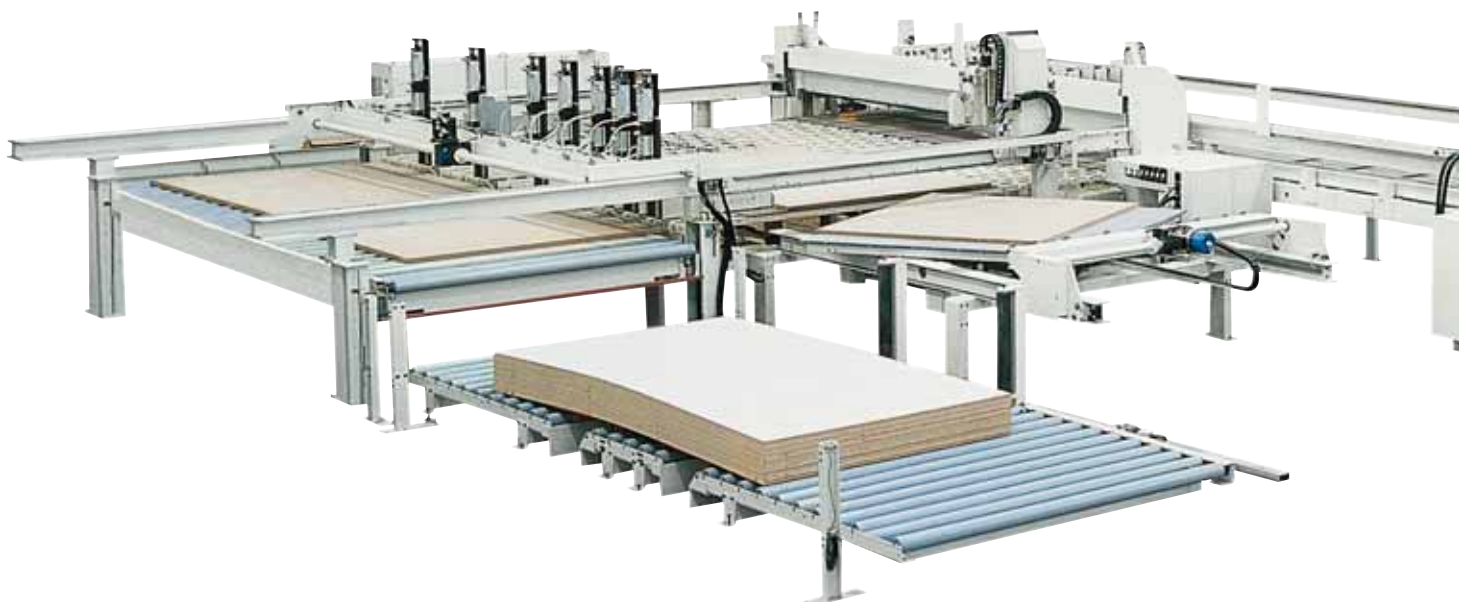
a4

total and **integrated solutions**

STACKER

Panel saw unloading gantry with multiple stacker stations. The two beam gantry structure will withstand the stresses and strains of heavy loads and high production rates.

The gripper carriage runs on prismatic guides with recirculating ball bearings. The guides have automatic lubrication to guarantee smooth operation and resistance to high dynamic loading.



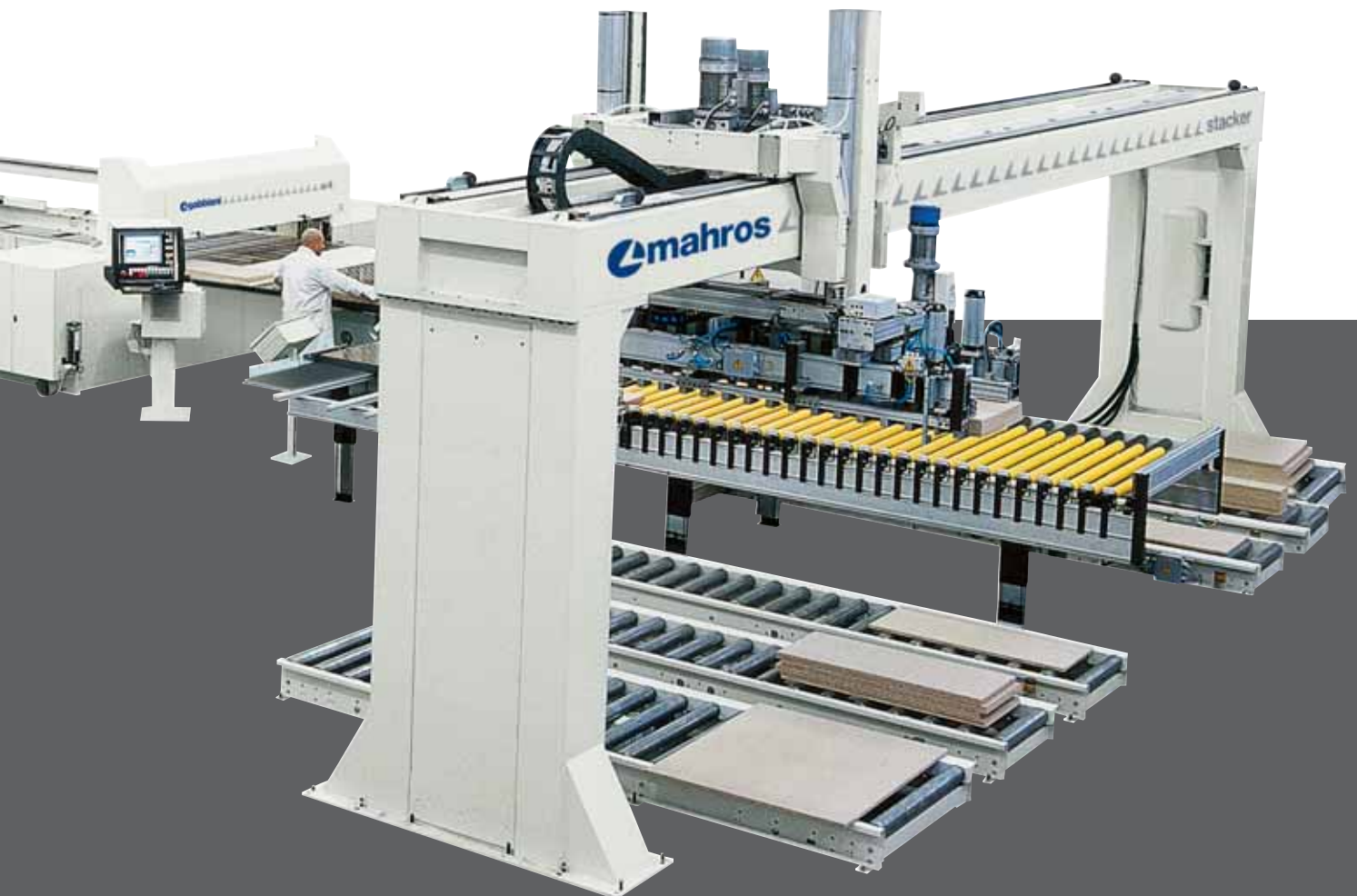


CLAMP

A strong panel gripper for picking up panels from single or double rows. The opening of the gripper arms is automatically adjusted according to the panel width.

AUTOMATIC WASTE TRIM CUT HANDLING DEVICE

Automatic device for the waste trim cuts on both cutting line including vibrating conveyors and chopping device.



a4

software



WINCUT PLUS

The WinCut Plus program is designed to control the entire angular panel saw system. It runs in Windows environment and provides the end user with an easy to use tool which manages all of the machine's potential.

Icons provide the operator with immediate access to all the main machine functions. These include: automatic processing of cutting lists; loading of optimised cutting programs from CD/USB key or from networks; management

of the label printer on the machine. A complete, easy-to-understand graphics display guides the operator around all the information concerning the machine. The program provides detailed daily production reports, lists of machine stops, maintenance schedules and other monitoring information designed to ensure that the machine maintains top efficiency at all times.



OTTIMO

Order processing

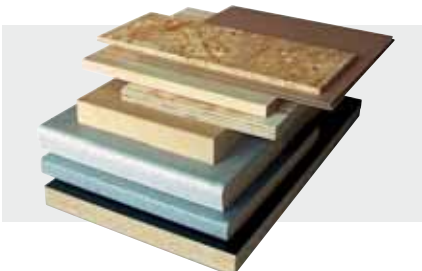
- Cutting pattern optimization according to the user's needs
- Cutting pattern export via CD/USB key or network
- Cutting cycle tridimensional simulation
- Production report: - number of produced panels and strips
- number of used sheets - waste percentage - job execution time - machine cost per hour - panel unit price
- Stock and off-cuts managements.



STACK MANAGER

The software controls the entire panel saw cell and enables automatic or semi-automatic unloading. The program provides the computerised link between the panel saw and the automated unloading devices. The program will define the sequence for unloading finished panels automatically or according to the parameters defined by the operator. Finished panels can be unloaded according to their size, the height of the stack on the roller conveyor, the minimum or maximum dimensions of parts or on the basis of unloading capacity in multiple rows. This data is processed and transmitted directly to the PLC of the automated unloading system and is synchronised

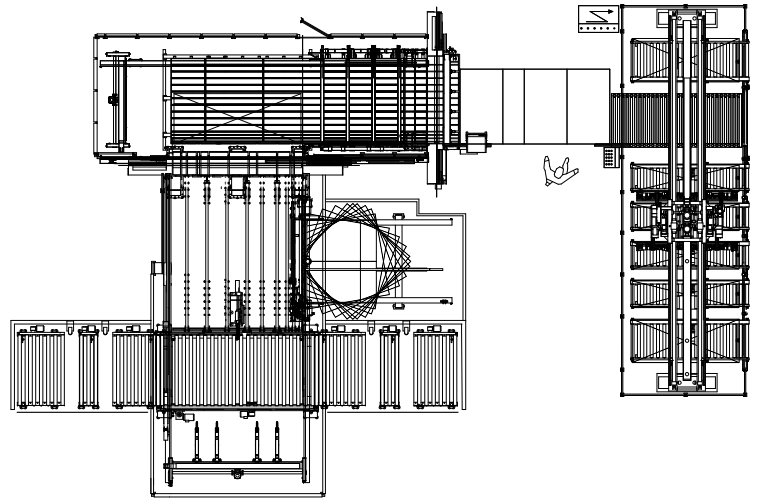
with the panel saw, finished part label printer controller, the unloading gantry control and diagnostics system. For semi-automatic unloading and distribution, the program provides the operator with an easy to follow graphics guide providing all the instructions for completing and monitoring unloading operations.



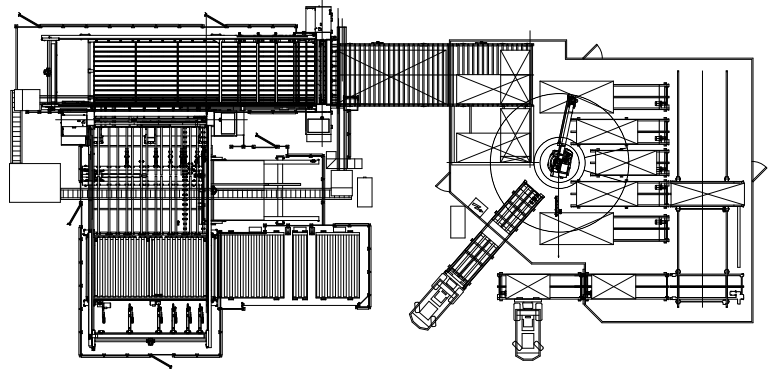
a4

examples of **integrated solutions**

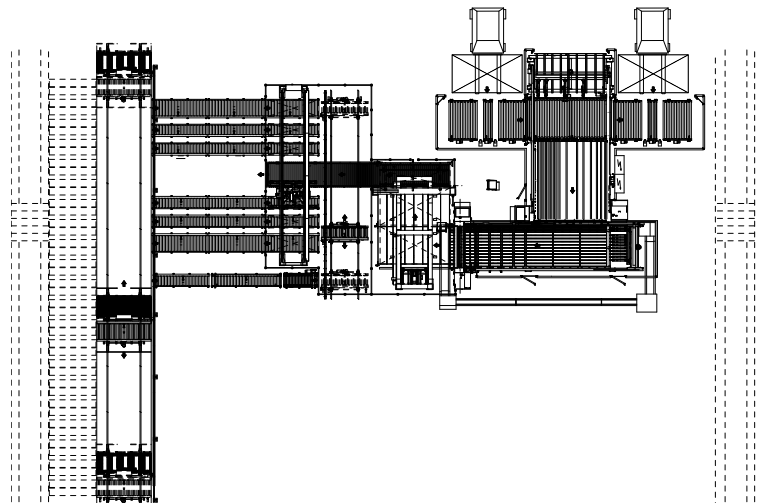
Angular panel saw system with external pre-cutting and semiautomatic sorting of finished panels. The operator follows the instructions given by the cell STACK MANAGER software and pushes the stacks produced by the panels saw directly to the unloading gantry. The gantry stacks the panels onto the floor roller conveyors.



Angular panel saw system with external pre-cutting and unloader robot for palletizing finished parts. The robot automatically picks up the panel saw stacks from the powered roller conveyor and deposits the stacks on the pallets.

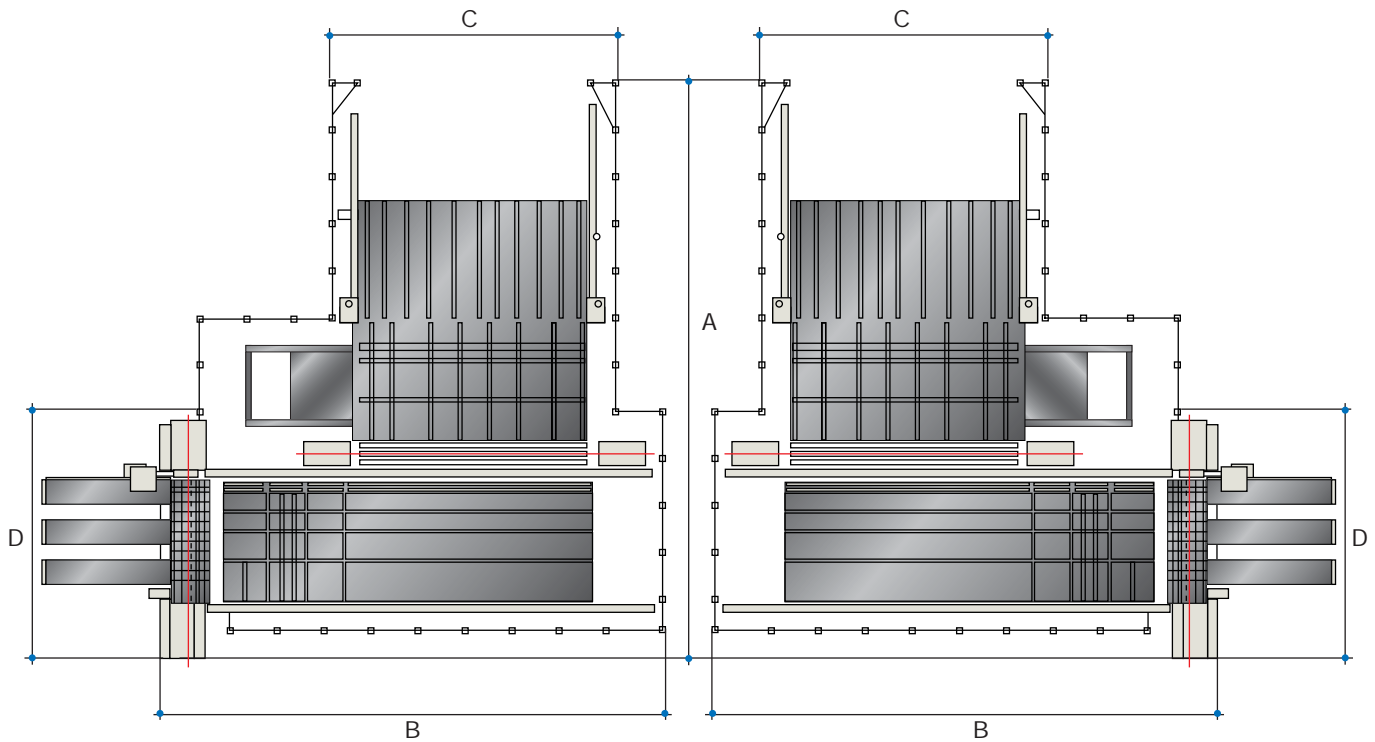


Angular panel saw system with automatic sorting of finished stacks. The cell software program provides the unloading gantry and the automatic stock with all the information necessary to enable automatic finished stack distribution without any operator intervention.



a4

technical information



	A	B	C	D
4500 x 2440	14700	10500	5900	5100
5600 x 2440	14700	14000	7200	5600

A4		rip section	cross section
Cut dimensions	mm	4500 - 5600	2440
Lifting table dimensions	mm	4500 x 2440	
	mm	5600 x 2440	
Main blade protrusion	mm	175	175
Main blade diameter	mm	580	580
Scoring saw diameter	mm	200	200
Main blade motor	kW(Hz)	30 (50)	30 (50)
Saw carriage maximum speed	m/min	170	170
Pusher speed	m/min	90	90

The technical data can vary according to the requested machine composition. In this catalogue, machines are shown with options. The company reserves the right to modify technical specifications without prior notice; the modifications do not influence the safety foreseen by the CE Norms

SINCERT



 **scm**
 **minimax**
 **scm tecmatic**

 **scm**

 **routech**

 **celaschi**

 **dmc**

 **superfici**

 **sergiani**

 **gabbiani**

 **morbidelli**

 **rem**


 **mahros**

 **stefani**

 **cpc**

 **sag**

 **scmgroup**
engineering

 **delmac**
engineering

 **scmfonderie**

 **steelmec**

 **hiteco**

 **es**

 **csr**

 **CMS Cms**
wood technology

 **CMS Cms**
advanced materials technology

 **CMS Brembana**
stone technology

 **CMS Brembana**
glass technology

 **CMS CmsPlast**
plastic technology

 **CMS Tecnocut**
waterjet technology

 **CMS Balestrini**

| **1**
large integrated
group
/

| **18**
production sites
/

| **30**
specialist
brands
/

| **21**
foreign branches
/

| more than **50**
years in business
/

| **70%**
exports
/

| **350**
agents and
distributors
/

| **365**
registered patents
/

| **500**
engineers
/

| **3.000**
square metres
showroom
/

| **10.000**
classical and
professional
machines made
per year
/

| **240.000**
square metres
of production
space
/



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