

beam saws

gabbiani p/s

automatic horizontal panel beam saws



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00L0365606H



gabbiani p/s

automatic horizontal panel beam saws

gabbiani t

gabbiani st

automatic panel beam saw
with loading platform.

- blade projection 115 mm

gabbiani pt

automatic panel beam saw
with loading platform.

- blade projection 70 mm

gabbiani

gabbiani s

automatic horizontal panel beam saw.

- blade projection 95/115 mm

gabbiani p

automatic horizontal panel beam saw.

- blade projection 55/70 mm



gabbiani st
page 06



gabbiani pt
page 14



gabbiani s
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gabbiani p
page 15



gabbiani p/s

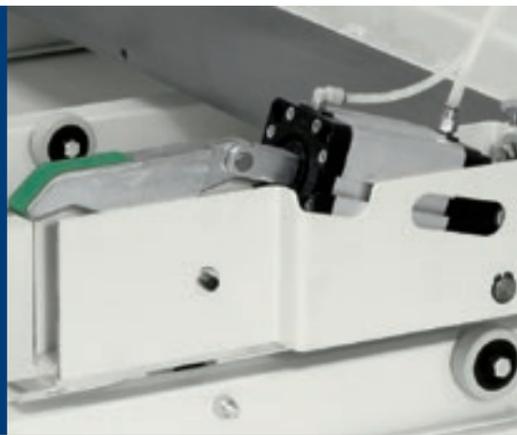
exclusive features



toptech

SELECTABLE AIR BLOWING TABLE: AN ESSENTIAL TOOL.

The possibility to enable / disable the air blowing feature on each table section via 4 independent motors, ensuring **optimal sliding of the panels only where it is needed** and avoids accidental falling of cut panels temporarily stored on the tables. This solution also provides energy saving.



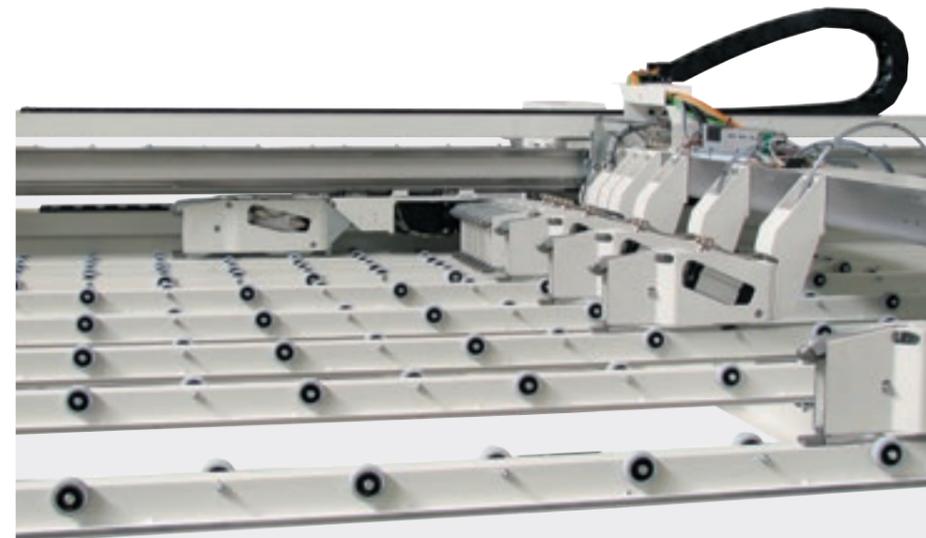
toptech

FLOATING CLAMPS: THE GUARANTEE OF THE END RESULT.

The special shape of the clamps gently grips the panels giving the **grip at the maximum speed** and also perfect parallelism when panels are not perfectly planar.

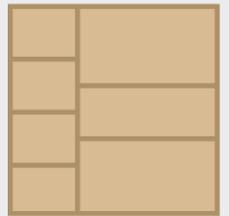
OVERHEAD SIDE PROTECTIONS: MORE SPACE FOR THE WOODWORKING WORKSHOP.

The shape of the protections allows operators to use the **large space under the rear part of the machine** as storage space for additional panels.

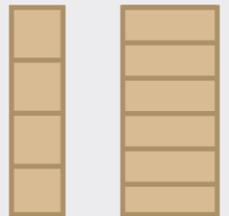


FLEXCUT/1 UNIT: CUT MORE PANELS FASTER.

Two independent pushers allow to carry out 2 side-by-side bar with differentiated cuts (fig.1) or cross and longitudinal cuts (fig.2) simultaneously with a **productivity increase by up to a 30%**.



(fig. 1)



(fig. 2)



"HIGH SPEED" DEVICE: ABSOLUTE SPEED.

High productivity due to:

- axes speed up to 150 m/min on the beam saw carriage and 120 m/min on the pusher
- optimised logic of cutting cycles on the carriage, pressure beam and pusher groups

DRIVE BY RACK: FINISH QUALITY AND LONG-LIFE PERFORMANCE.

The drive by rack, typical feature of industrial machines, ensures a **smooth and precise movement** without necessity of maintenance.



gabbiani st

advanced technological solutions for a perfect quality of cut



gabbiani		st 115
Cutting length	mm	3200 - 3800 - 4500
Cutting depth on platform	mm	1850 - 2200
Max. height of panel stack on platform with support beams	mm	600
Blade projection	mm	115
Saw carriage variable speed (opt.)	m/min	0 - 135 (0 - 150)
Pusher variable speed (opt.)	m/min	0 - 70 (0 - 90)
Main blade motor S6 -40% (opt.)	kW	9 (11 - 15 - 18)
Scoring unit blade motor 50 Hz	kW	1,8
Main blade / scorer speed 50 Hz	rpm	3900/6300
Main blade / scorer blade diameter	mm	400/160
No. of clamps for transversal cuts / with side aligner	std	3/3

gabbiani s

the very best solution for all cutting requirements, flexible and fully customizable



gabbiani		s 95	s 115
Cutting length	mm	3200 - 3800 - 4500	3200 - 3800 - 4500
Cutting depth on platform	mm	95	115
Saw carriage variable speed (opt.)	m/min	6 - 60 (0 - 135/0-150)	6 - 60 (0-135/0-150)
Pusher variable speed (opt.)	m/min	0-60 (0-70 / 0 - 120)	0 - 60 (0-70 / 0 - 120)
Main blade motor S6 -40% (opt.)	kW	7 (9 - 11 - 15)	9 (11-15-18)
Scoring unit blade motor 50 Hz	kW	1,8	1,8
Main blade / scorer speed 50 Hz	rpm	3900/6300	3900/6300
Main blade / scorer blade diameter	mm	380/160	400/160
No. of clamps	std	5	6

gabbiani s

structure and customization



THE BASE: THE VERY BEST RESULTS ARE GUARANTEED.
Solid and compact machine base ensures precise carriage movements by providing maximum cutting quality for many years.

HIGH TECHNOLOGY.

The structure quality, together with the possibility of utilising prismatic guides, improves and facilitates the sliding of the saw carriage(opt.) during the cutting phase and provides enhanced performance.

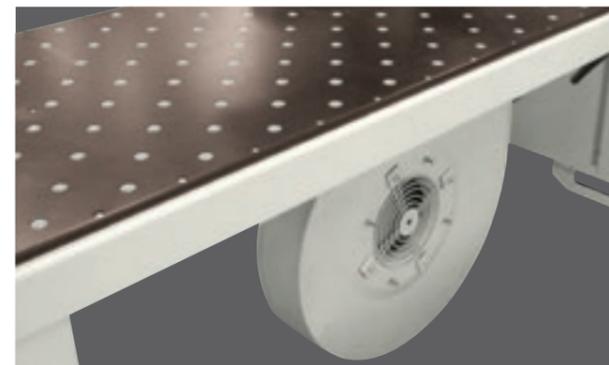


PRISMATIC GUIDES FOR THE PUSHER: SILENT AND EFFICIENT.
The use of prismatic guides with recirculating ball bushings on the sliding of the pusher reduces friction and material wear so guaranteeing the best working quality and speed (opt.).



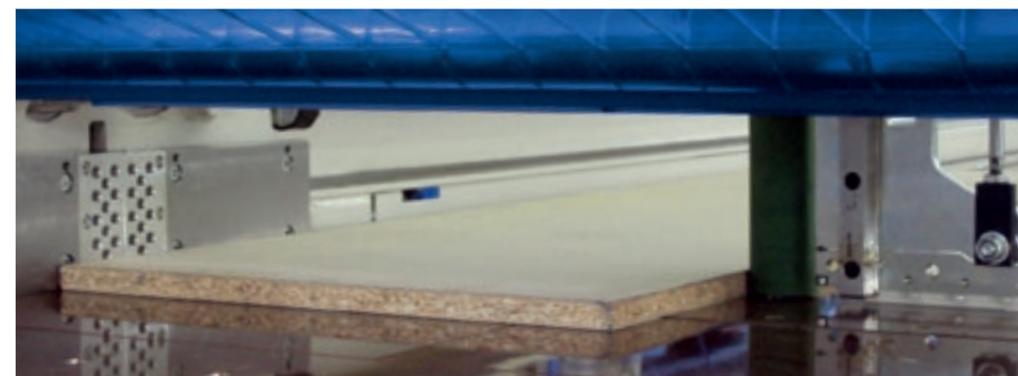
AIR BLOWING ALSO ON THE MACHINE TABLE.

The sliding of heavy or delicate materials is achieved through the air blowing on the cutting table that protects against the risks of friction.



HIGH EFFICIENCY WORK TABLE: OPTIMAL PANEL SLIDING IN ALL WORKING CONDITIONS.

The high number of air cushion outlets together with a fan with increased motor power ensures a constant and effective ease of movement of panel stacks of every type and weight (opt.).



AUTOMATIC SIDE ALIGNMENT DEVICE: THE BEST PRECISION FOR CROSS CUTTING.

The availability of many versions with pneumatic or powered movement with strokes up to 2200 mm allows satisfaction of all types of panel, equal and repeated cuts and soft materials. Therefore the cut precision and time-saving is always guaranteed.

gabbiani s

structure and customization

toptech

LOADING PLATFORM: WHEN STURDINESS AND PRECISION MAKE THE DIFFERENCE.

The lifting system, running on 4 large trapezoidal screws, as well as to maximize the load capacity in any material and format, always ensures **parallel lifting** of the stacks of panels avoiding downtime and achieving **maximum productivity**.
gabbiani st



600 mm (800 mm opt.)
max. panel stack height



PLATFORM WITH ROLLER CONVEYOR: SPACE IS NO LONGER A PROBLEM.

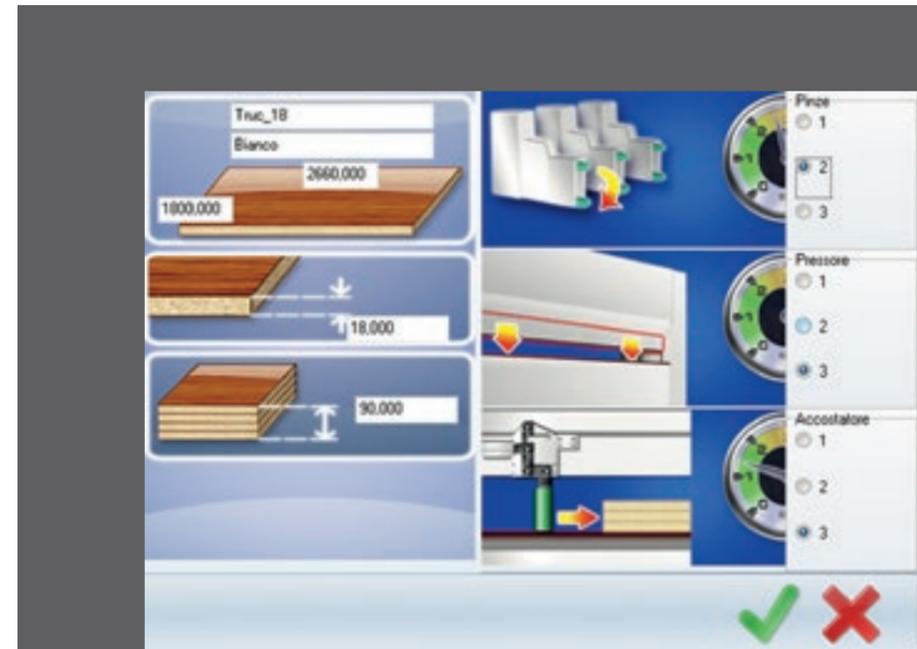
High customisation and maximum versatility according to the user's requirements.

The platform with powered roller conveyor with bilateral loading allows movement of panel stacks in space not available when loading panels from the machine's rear side (opt.).

gabbiani st

MAGNETIC BAND: A PRECISE CUT IS ALWAYS GUARANTEED.

A very high precision pusher at high speed due to electronic control positioning (opt.).



DIFFERENT PRESSURES: THE BEST RESULT FOR ZERO SET-UP TIMES.

Very fast work changeover due to the possibility of presetting. The automatic and independent management of the pressure beam, clamps and side alignment device according to the type of material to be cut allows **perfect machining** both on soft and deformable panels and also on hard ones (opt.).



standard



option

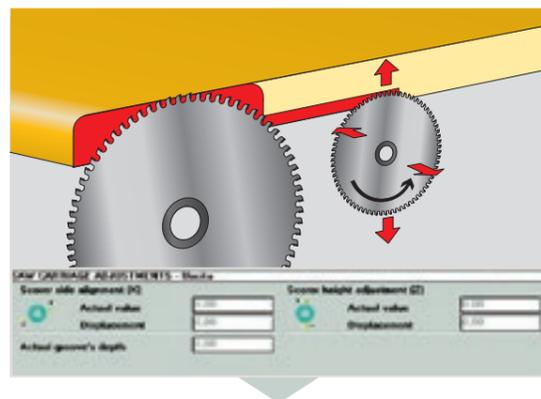
RAPID BLADES LOCKING/UNLOCKING: MACHINING SAFETY IN A REDUCED TIME.

This system provides safe and constant blades locking and unlocking due to the pneumatic system and it **minimises the stand-by times** for blade changeovers. The use of the selector (option) makes the operation even easier and immediate.



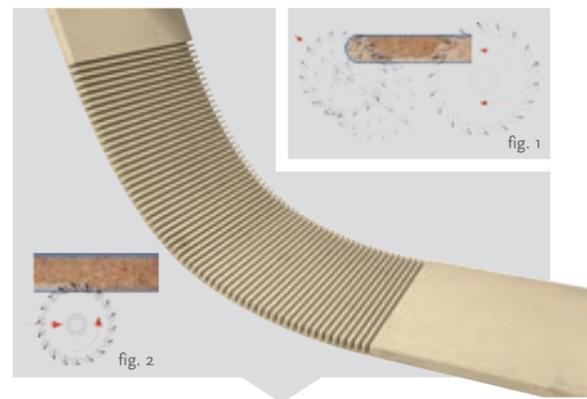
OPTIMISED BLADE HEIGHT: FOR A CUT WITHOUT COMPROMISE.

The automatic adjustment of the main blade projection, together with the presser lifting according to the panel thickness to be cut always gives an **optimum cut quality** and **reduces the machine cycle time** (opt.).



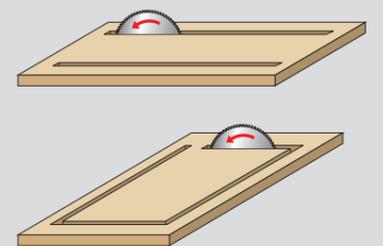
SCORING UNIT ELECTRONIC ADJUSTMENT: TECHNOLOGY FOR A REAL SUPPORT.

The setting from the PC allows the management of a powered system for the scoring unit automatic positioning by drastically reducing the blade set-up time and avoiding any possible errors (opt.).



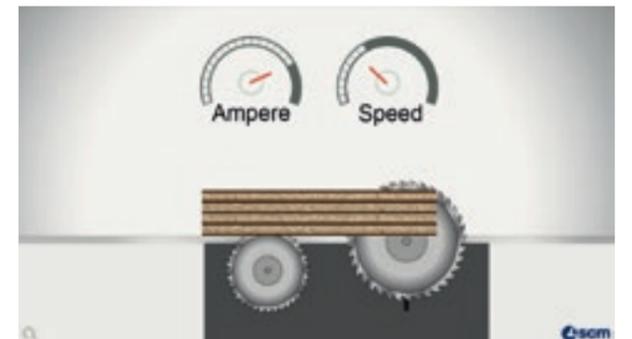
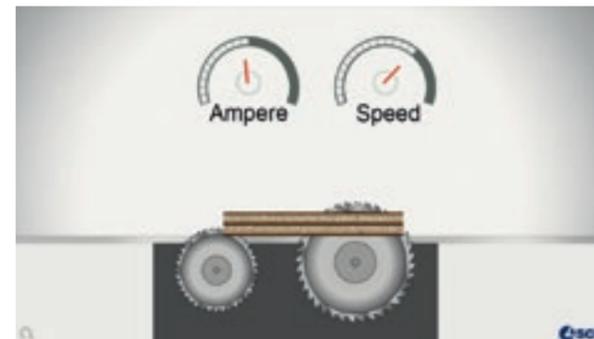
POSTFORMING AND GROOVING EXECUTION: PRODUCTION AND FLEXIBILITY.

Postforming unit (fig. 1) and grooving (fig. 2) allows machine customisation and makes the machine more productive and versatile (opt.).



SLOTS EXECUTION DEVICE: AT THE OPERATOR'S SERVICE.

This particular device allows the carrying out of interrupted cuts inside the panel for producing, for example, slotted doors (opt.).



ADAPTIVE CONTROL OF THE SAW CARRIAGE SPEED: SAFE WORKING.

The automatic monitoring of energy absorption of the motor according to the thickness/type of material and the type of the blade used **gives the best results and avoids errors and wastage** (opt.).



AUTOMATIC WORKPIECE MEASUREMENT: NO POSSIBILITY OF ERRORS.

The device automatically **detects both the panel size and its position** on the work table **avoiding difficult manual operations** in case of very long panels and slowing down in the production cycle (opt.).

gabbiani pt

at the "pinnacle" of technology but with a reduced price



gabbiani		pt 75
Cutting length	mm	3300 - 3800 - 4300
Cutting depth on platform	mm	1850 - 2200
Max. height of panel stack on platform with support beams	mm	600
Blade projection	mm	70
Saw carriage variable speed (opt.)	m/min	0 - 100
Pusher variable speed (opt.)	m/min	0 - 70
Main blade motor S6 -40% (opt.)	kW	7 (9)
Scoring unit blade motor 50 Hz	kW	1,3
Main blade / scorer speed 50 Hz	rpm	4600/6300
Main blade / scorer blade diameter	mm	320/160
No. of clamps	std	5

gabbiani p

Scm quality, ease-of-use and reliability within every users reach



gabbiani		p 55	p 75
Cutting length	mm	3300 - 3800 - 4300	3300 - 3800 - 4300
Cutting depth on platform	mm	55	70
Saw carriage variable speed (opt.)	m/min	6 - 60 (0-100)	6 - 60 (0-100)
Pusher variable speed (opt.)	m/min	0 - 60 (0 - 70)	0 - 60 (0-70)
Main blade motor S6 -40% (opt.)	kW	7 (9)	7 (9)
Scoring unit blade motor 50 Hz	kW	1,3	1,3
Main blade / scorer speed 50 Hz	rpm	4600/6300	4600/6300
Main blade / scorer blade diameter	mm	300/160	320/160
No. of clamps	std	5	5

gabbiani p

structure and customization



BASE AND SAW CARRIAGE GUIDES: GUARANTEED CUT QUALITY.

Parallelism and absolute perpendicularity of the guides on which the carriage runs is guaranteed by machining of the entire machine base on cnc machines. The ideal solution gives a cut that is always perpendicular and perfect.

SAW CARRIAGE: GREAT RELIABILITY.

Long-life high performance and quality due to the use of prismatic guideways with recirculating ball bushings for the raising of the saw carriage unit.

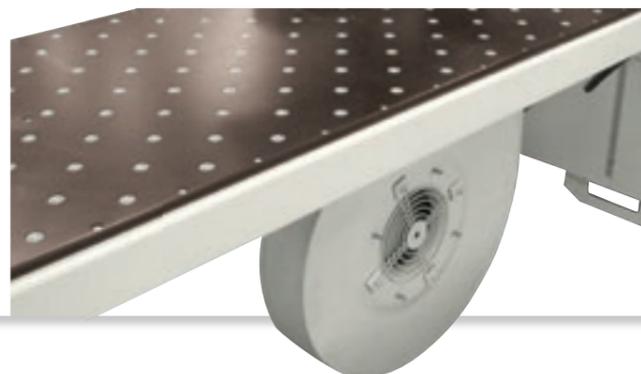


AUTOMATIC SIDE ALIGNMENT DEVICE: THE BEST PRECISION FOR CROSS CUTTING.

Device sliding on prismatic guideways with recirculating ball bushings always ensures precision on cross cuts and ensures reduced cutting times.

HIGH EFFICIENCY WORK TABLE: OPTIMAL PANEL SLIDING IN ALL WORKING CONDITIONS.

The high number of air cushion outlets together with a fan with increased motor power ensures a constant and effective ease of movement of panel stacks of every type and weight (opt.).



structure and customization

toptech

LOADING PLATFORM: WHEN STURDINESS AND PRECISION MAKE THE DIFFERENCE.

The lifting system, running on 4 large trapezoidal screws, as well as to maximize the load capacity in any material and format, always ensures parallel lifting of the stacks of panels avoiding downtime and achieving maximum productivity.
gabbiani pt



600 mm (800 mm opt.)
max. panel stack height



PLATFORM WITH ROLLER CONVEYOR: SPACE IS NO LONGER A PROBLEM.

High customisation and maximum versatility according to the user's requirements. The platform with powered roller conveyor with bilateral loading allows movement of panel stacks in space not available when loading panels from the machine's rear side (opt.).
gabbiani pt

MAGNETIC BAND: A PRECISE CUT IS ALWAYS GUARANTEED.

A very high precision pusher at high speed due to electronic control positioning (opt.).



gabbiani p

cutting devices

accessories



RAPID BLADES LOCKING/UNLOCKING: MACHINING SAFETY IN A REDUCED TIME.
This system provides safe and constant blades locking and unlocking due to the pneumatic system and it minimises the stand-by times for blade changeovers.

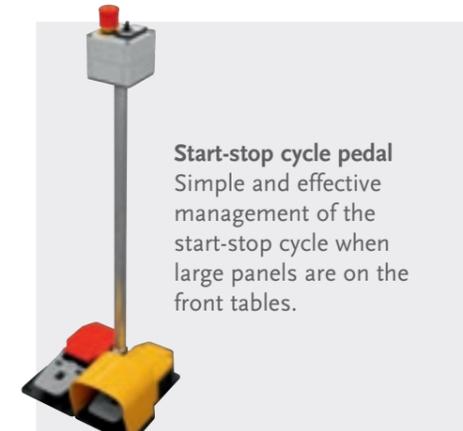


LABEL PRINTER
Integrated in the machine control system, it allows the printing of labels which enables panel "identification" later to carry out all of the information required for any following machines (by edge banders, boring and routing machines, etc).

SLOTTED PRESSURE BEAM: THE BEST ANSWER TO YOUR CUTTING REQUIREMENTS.
Special openings in the pressure beam eliminates all interference with the clamps and greatly reduces waste.



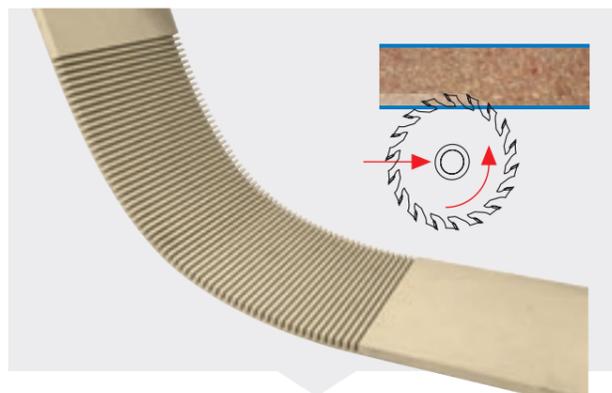
Automatic centralised lubrication managed by the control.



Start-stop cycle pedal
Simple and effective management of the start-stop cycle when large panels are on the front tables.



Additional clamps
The clamps ensure a perfect panel stack hold-down at any pusher speed.



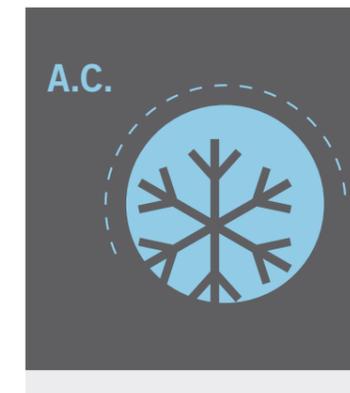
GROOVE EXECUTION: CUSTOMISATION.
This application makes the beam saw even more flexible (opt.).



"HIGH SPEED" DEVICE: ABSOLUTE SPEED.
High productivity due to:
• axes speed up to 100 m/min on the beam saw carriage and 70 m/min on the pusher (opt.)



Telesolve
Teleservice system to connect the machine's PC to the service department by means of the internet.



Electrical cabinet
with air conditioner which maintains the temperature at around 18°C.



Lower consumption = lower costs = more competitiveness
SavEnergy allows the use of power only when it is required, making things operate only when they are really necessary. It means the machine automatically enters "stand-by" mode when there are no panels to be machined at any particular time (year saving up to 20%).



Maestro Cut: creates all the panels imaginable

- superior performance compared to the previous versions
- intuitive, reliable and customizable operator's interface depending on customers' needs
- materials stock: creation of panel storage with an integrated bi-directional connection to Maestro Watch
- off-cuts stock: automatic off-cuts restocking that will be displayed together with the materials stock
- parts handling management during machining: parking solution for end products, off-cuts and scraps

New control panel: simple, linear and elegant design

- 16/9 21" touch screen



Telesolve

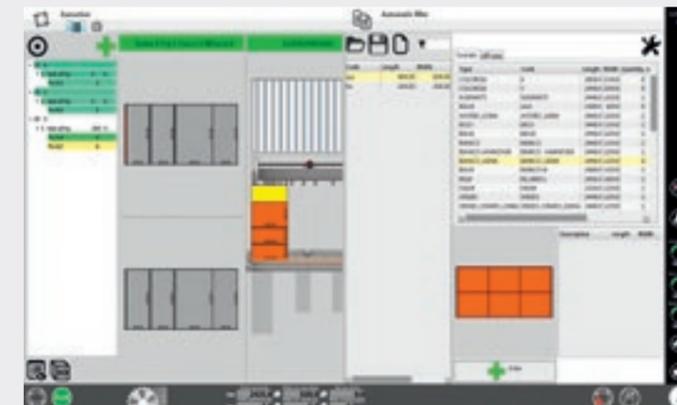
Remote service system to connect the machine's PC with the service department via Internet.

SUPPLEMENTARY MODULES TO INCREASE MAESTRO CUT POWER:



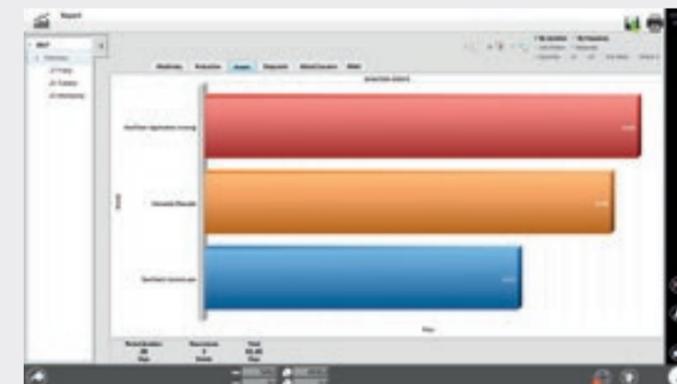
MAESTRO CUT 3D EDITOR:

- labels printing software
- 3D (run-time) simulator on board
- graphic editor for cutting diagrams
- panels editor
- cutting editor for grained panels (flame-cut): help functions for programming cutting diagrams with shapes organized according to the layouts on the origin panel
- editor for Macro machining creation



MAESTRO CUT UTILITY:

- cuts editor for panels de-tensioning: software program that reduces tensions inside the material on longitudinal cuts guaranteeing cut linearity
- dynamic cutting diagrams editor
- automatic panels editor (FILLER)
- off-cuts stock management: identification and automatic insertion functions of the off-cuts into stock for a future use



MAESTRO CUT MANAGER:

- simulator for cycle time calculation, simulated execution of the cutting diagrams of single or multi orders, to verify the machine cycle time needed. It includes 2D instantaneous simulation and 3D real time simulation of the entire process
- priority-based and date-based scheduling of the order
- advanced report



gabbiani p/s

easy and powerful optimization cutting software



MAESTRO PATTERN

Optimisation program installed on the machine for:

- simple and efficient creation of optimized cutting programs
- fast configuration of a simplified number of parameters
- off-cuts reduction due to the creation of an overproduction for each element
- off-cuts stock creation with the most used parts (max. 550 pcs/line, max 100 lines)



MAESTRO OTTIMO CUT (optional)

Maestro Ottimo Cut is the cutting plans optimisation program thought for an immediate and functional management of the single blade beam saws, directly from the office.

The new Maestro Ottimo Cut algorithm permits the automatic generation of the cutting plans identifying the best solution among different results suggested, depending on users' parameters.

It includes the following functions:

- material, pieces and edges stocks management
- grained panels management (longitudinal and cross)
- optimization of orders and multi-orders
- preventive calculation of costs and machining time
- labels with integrated graphic editor
- 3D simulator
- sends of cutting programs with labeling data included to the beam saws control
- connection with the business management software

EASY IMPORT (optional)

This software transfers columns and rows previously selected by the user and containing all necessary datas for the optimisation to Maestro Pattern.

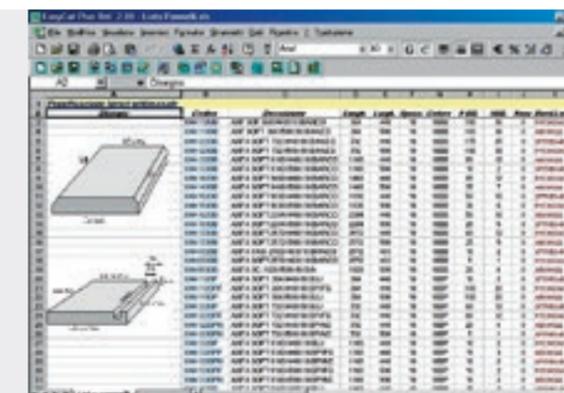
Functions are easy to access through icons inserted on the MS Excel toolbar:

- 11 fields for panel description (length, width, quantity, grain...)
- 12 fields of information import for labelling machine
- File XLS import > = Excel 97

EASYCUT (optional)

MS Excel integrative software which transfers to Maestro Cut:

- 10 fields for panel description (length, width, quantity, grain...)
- 36 fields for labelling machine information import (minimum configuration required Excel 97)



Label printer:

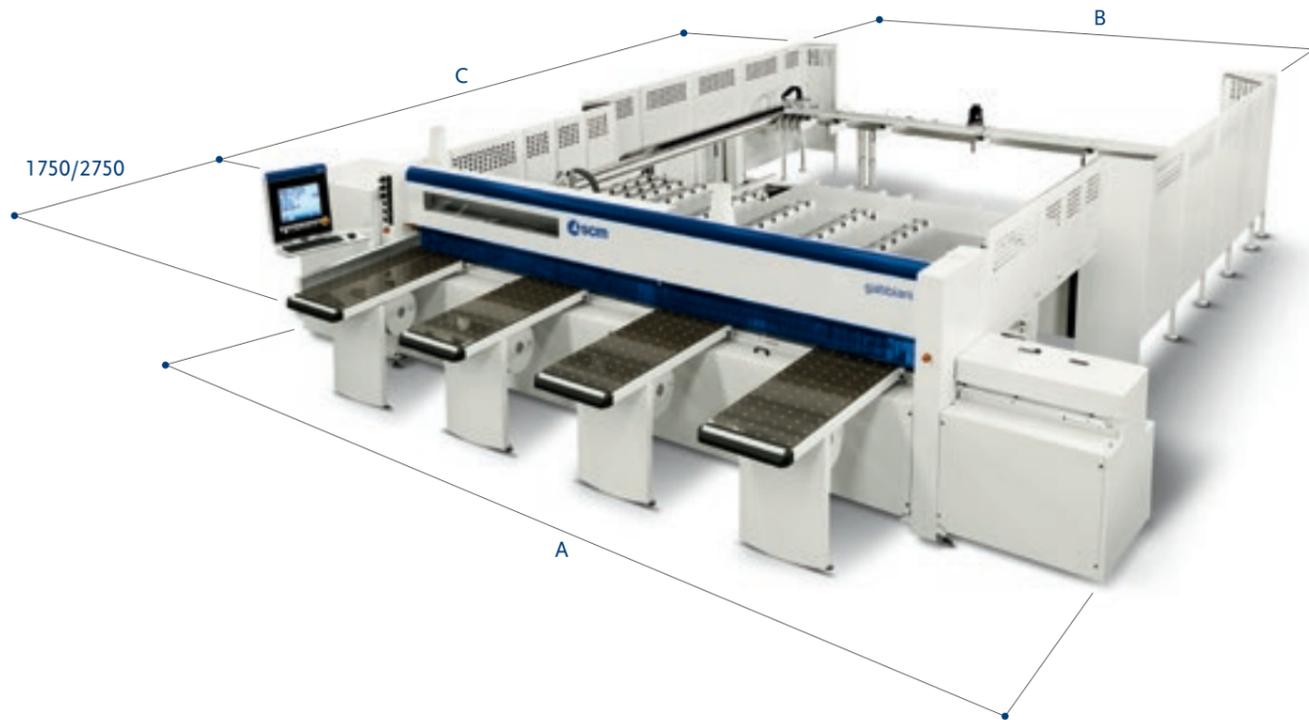
traceability of all finished parts (even the off - cuts).



Maestro Pattern even for the office (optional).

gabbiani t

overall dimensions



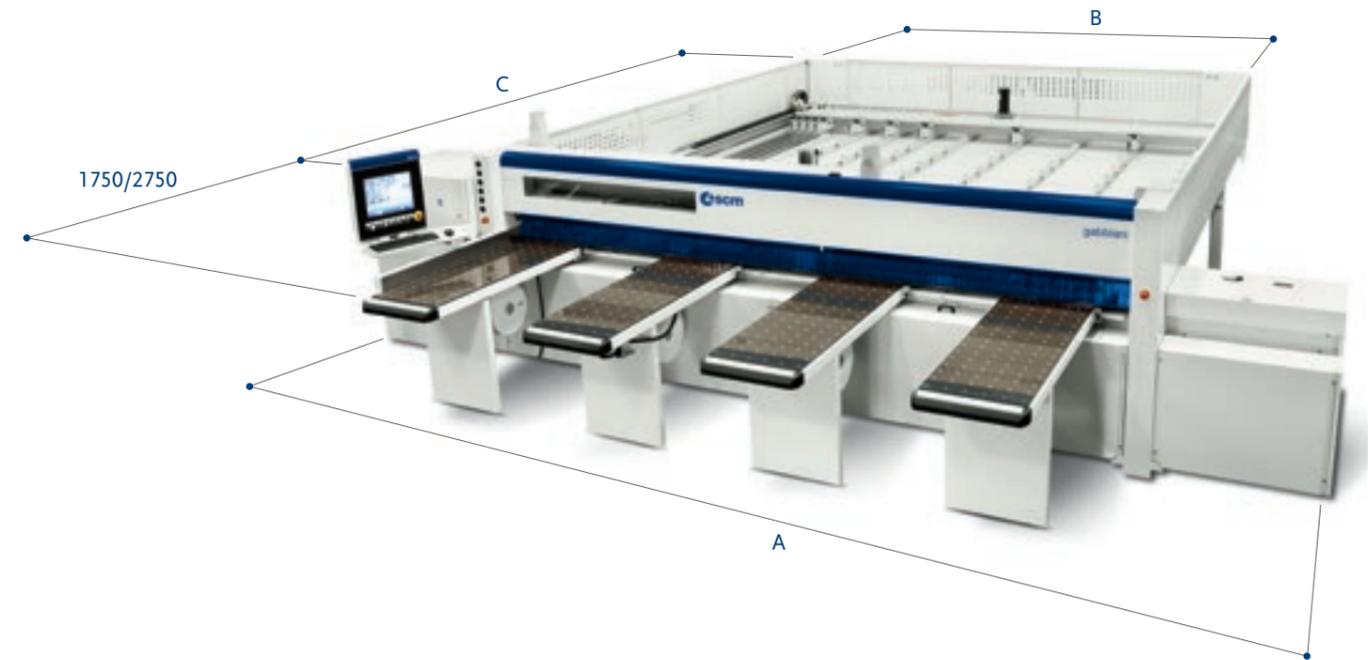
gabbiani st 115

Cutting dimensions	A	B	C
3200 x 1850	5700	4450	6750
3200 x 2200	5700	4450	7100
3800 x 1850	6350	5050	6750
3800 x 2200	6350	5050	7100
4500 x 2200	7100	5750	7100

gabbiani pt 75

Cutting dimensions	A	B	C
3300 x 1850	5400	4450	6550
3300 x 2200	5400	4450	7100
3800 x 1850	5900	5000	6550
3800 x 2200	5900	5000	7100
4300 x 2200	6400	5450	7100

gabbiani



gabbiani s 95/115

Cutting dimensions	A	B	C
3200 x 2100	5700	3700	3250
3200 x 3200	5700	3700	4350
3800 x 3200	6350	4300	4350
3800 x 3800	6350	4300	4900
4500 x 3200	7100	5000	4350
4500 x 4300	7100	5000	5450

gabbiani p 55/75

Cutting dimensions	A	B	C
3300 x 2100	5400	3700	3200
3300 x 3200	5400	3700	4260
3800 x 3200	5900	4200	4260
3800 x 3800	5900	4200	4860
4300 x 3200	6400	4700	4260
4300 x 4300	6400	4700	5360

Noise level according to the reference standard **EN ISO 11202:2010** and **EN ISO 3746:2010**

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.



THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND

Over 65 years of success gives SCM the centre stage in woodworking technology. This heritage results from bringing together the best know-how in machining and systems for wood-based manufacturing. SCM is present all over the world, brought to you by the widest distribution network in the industry.

- 65 years history
- 3 main production sites in Italy
- 300.000 square metres of production space
- 17.000 machines manufactured per year
- 90% export
- 20 foreign branches
- 350 agents and dealers
- 500 support technicians
- 500 registered patents

In SCM's DNA also strength and solidity of a great Group. The SCM Group is a world leader, manufacturing industrial equipment and components for machining the widest range of materials.

SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL MACHINES AND COMPONENTS

INDUSTRIAL MACHINERY

Stand-alone machines, integrated systems and services dedicated to processing a wide range of materials.



WOODWORKING TECHNOLOGIES



TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL



SPINDLES AND TECHNOLOGICAL COMPONENTS



ELECTRIC PANELS



METALWORK



CAST IRON

INDUSTRIAL COMPONENTS

Technological components for the Group's machines and systems, for those of third-parties and the machinery industry.

In SCM's DNA also strength and solidity of a great Group. The SCM Group is a world leader, manufacturing industrial equipment and components for machining the widest range of materials.