beam saws

gabbiani g 3/gt 3

high performance automatic horizontal beam saws



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woodworking technology

gabbiani g 3/gt 3

high performance automatic horizontal beam saws



gabbiani gt 3 165



gabbiani gt 3 145



gabbiani gt 3 130



gabbiani g 3 165



gabbiani g 3 145



gabbiani g 3 130



gabbiani g 3



gabbiani g 2



gabbiani gt 3



gabbiani gt 2



gabbiani s



gabbiani p



gabbiani st



gabbiani pt

gabbiani g 3/gt 3

high performance automatic horizontal beam saws

gabbiani g 3/gt 3 designed to satisfy all requirements of a company that wants to excel at every process of the machining and to be a major player in a continuously changing market.

gabbiani g 3/gt 3 are equipped with a new “EASY & RESPONSIVE” production system with flexible and advanced technologies following “industry 4.0” philosophy which maintain high quality standards.







gabbiani		g 3 130	gt 3 130	g 3 145	gt 3 145	g 3 165	gt 3 165
Cutting dimension	mm	3200/3800/4500	3200/3800/4500	3200/3800/4500	3200/3800/4500/5600	3200/3800/4500	3200/3800/4500/5600
Blade projection	mm	130	130	145	145	165	165
Main blade motor	kW (Hp)	15 (20)	15 (20)	18 (25)	18 (25)	18 (25)	18 (25)
Saw carriage speed	m/min	0 - 170	0 - 170	0 - 170	0 - 170	0 - 170	0 - 170
Pusher speed	m/min	135	135	135	135	135	135

gabbiani g 3/gt 3

perfection and flexibility of cut



The base: the very best result is guaranteed
Top quality machining on single sheet or panel packs, high-speed cutting, heavy workloads even on three daily shifts.



Prismatic guides with recirculating balls screw: improve machine performance
Minimum friction and automatic lubrication with a remarkable maintenance reduction.
Maximum speed reachable both during the feeding stroke (100 m/min with a single sheet, 50 m/min with a panel stack) and the return stroke (up to 170 m/min).

Air floating table: an essential tool
High efficiency air floating table with feeding rollers eases the sliding of heavy or delicate materials.
Maximum protection against risks of friction.

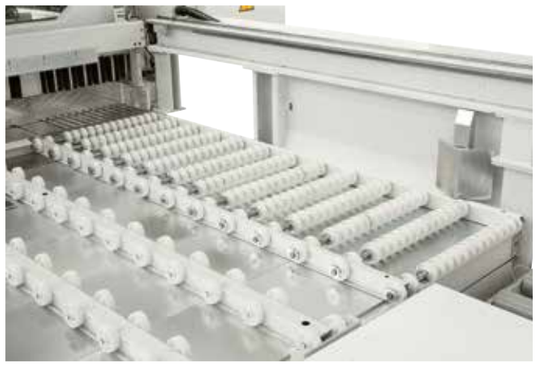






Inverter: no compromise
The possibility to adjust the main blade speed allows a **perfect finish** with any panel stack height (optional).

Pusher with brushless motor: precision and speed
The best quality and the maximum performance due to the pusher stroke on prismatic guides with recirculating ball screws.





The machine base is composed by sturdy tubular steel with oversized nylon wheels for moving panels, even the heaviest without damaging them.

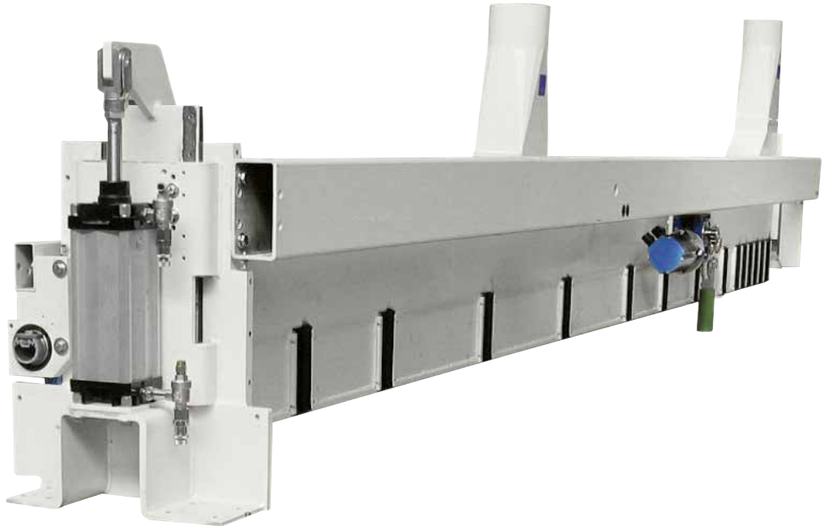


Optimised blade height: for smart cut
The main blade projection is automatically adjusted according to the panel thickness to be cut.
It always **guarantees** an **optimum cut quality** and **reduces the machine cycle time.**

gabbiani g 3/gt 3

perfection and flexibility of cut

Pressure beam: many qualities in a single structure
This structure guarantees a uniform and increased pressure on panels, with an optimum extraction of shavings and simplified maintenance.





Rear pneumatic side aligner for cross cuts: perfect alignment of the piece against the squaring fence and cycle time reduction.

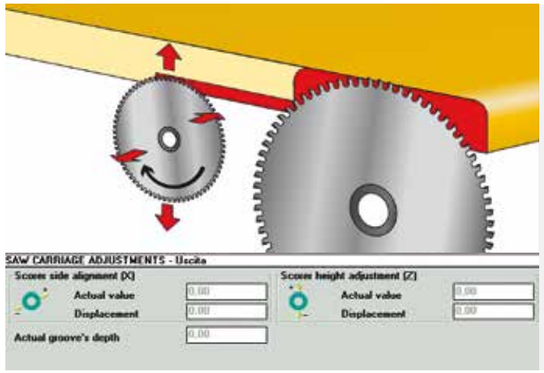
Floating clamps with double finger:
safe grip at the highest speed on squaring side, also when panels are not perfectly planar.





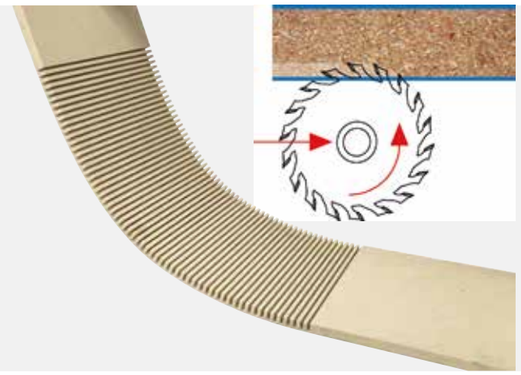
gabbiani g 3/gt 3

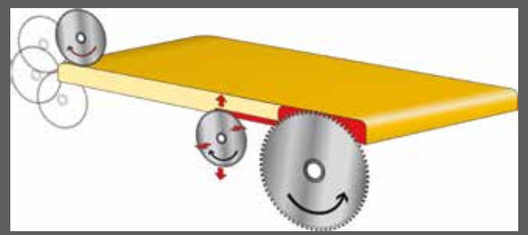
optional cut solutions for every need



Scoring unit electronic adjustment: technology for real support
The setting from the PC allows the management of a powered system for the scoring unit automatic positioning, drastically **reducing the blade set-up time** and avoiding any possible **errors** (with HI-TRONIC carriage as standard equipment).

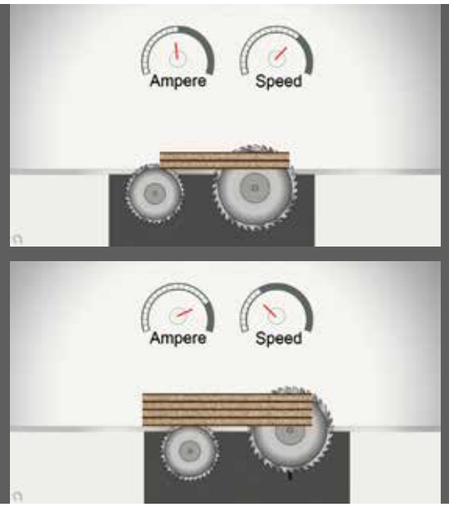
Grooving execution: production and flexibility
Grooving execution allows machine customisation and makes the machine more productive and versatile (with HI-TRONIC carriage included as standard equipment).







Postforming
Lateral scoring of edged and postformed bars by means of the scoring blade rise (with HI-TRONIC carriage included as standard equipment).

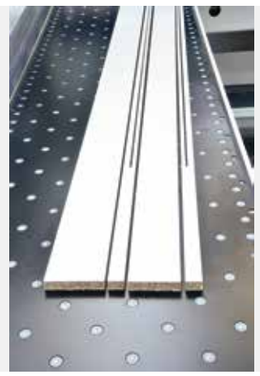


Adaptive control of the saw carriage speed: to work safely
The automatic monitoring of energy absorption of the motor according to the thickness/type of material and the type of the **blade used gives the best results avoiding errors or wastes.**

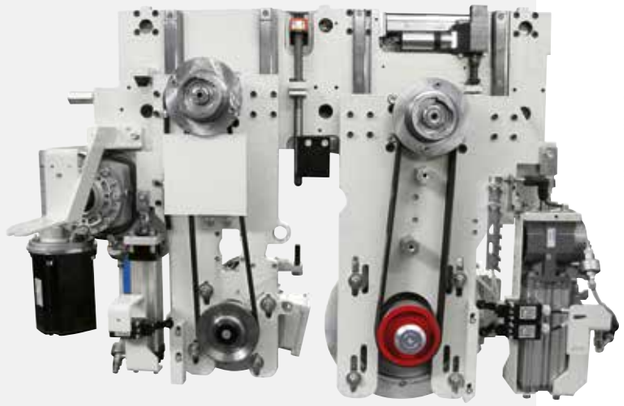


Slots execution device: at the operator's service
This particular device allows the carrying out of interrupted cuts inside the panel to produce, for example, slotted doors (with HI-TRONIC carriage included as standard equipment).

Execution of panels de-tensioning cuts
Device that reduces tensions inside the material on longitudinal cuts guaranteeing cut linearity.



gabbiani g 3/gt 3
cut devices



Sturdy saw carriage with independent pneumatic raising of the main blade and scoring blade, on prismatic guides with recirculating ball screws (as standard equipment on gabbiani g 3 130/gt 3 130).

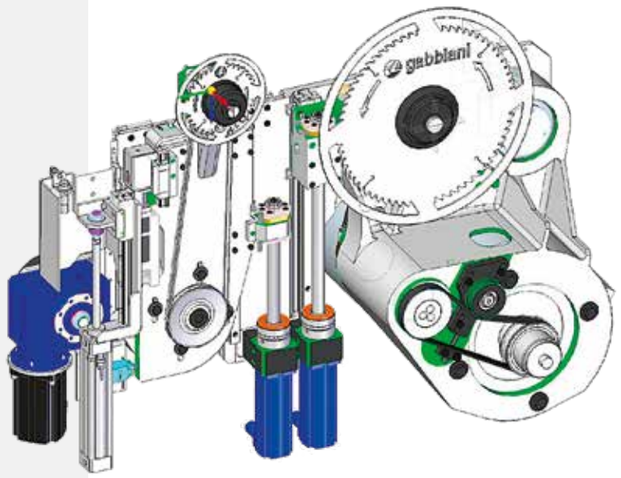
“HI-TRONIC vertical stroke” device: maximum productivity
The device allows an optimum finishing and precision cut event at high-speed (optional on gabbiani g 3 130/gt 3 130).

These devices include:
- optimised blade stroke
- fast blades unlocking with AKE mechanical flanges
- self-learning pressure beam
- post-forming
- scoring blade electronic adjustment
- electronic mortising device
- cuts out “windows”





HI-TRONIC: for top performance
The use of motors up to 37 kW ensures reaching the highest speeds.
Precision and perfect finish cut due to a balanced solution, which foresees an oscillating movement, rather than a vertical one, of the blade motor.
Versatility of use owing to the possibility to install advanced options.
Ease of maintenance with the belt tensioning system (as standard equipment on gabbiani g 3 145-165/gt 3 145-165 optional on gabbiani g 3 130/gt 3 130).



Saw-set: tool changing has never been so easy
In a few seconds the “SAW-SET” device carries out fast and precise tools adjustments due to the electronic setting, allowing an intuitive use of the machine and a productivity increase (optional).





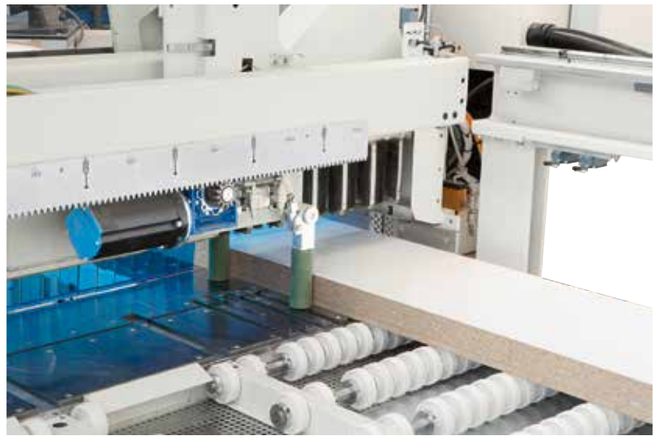
AKE device
Rapid locking/unlocking of the scoring blades with “AKE” mechanical flanges “EASYFIX” (“AKE” patent) allowing for quick and easy change of the blades. The tightening is ensured both with high blade-motor power and machining of the hardest materials (optional).

Rapid blades locking/unlocking: machining safety in reduced time
This system provides safe and constant blade locking and unlocking, due to the pneumatic system which minimises the stand-by times for blade changeovers (standard).



gabbiani g 3/gt 3

optional cut devices



Powered side alignment device:
drastic cycle time reduction and better grip of the piece by means of the brushless motor.





Automatic closure of the cutting line:
it avoids the fall of waste trim cuts inside the machine.

Device for the selective closing of the clamps: the special shape of the clamps allows a **safe panel grip at the maximum speed,** while the **selective closing device prevents ruining panels** which edges are exactly positioned in correspondence of the clamps working area.



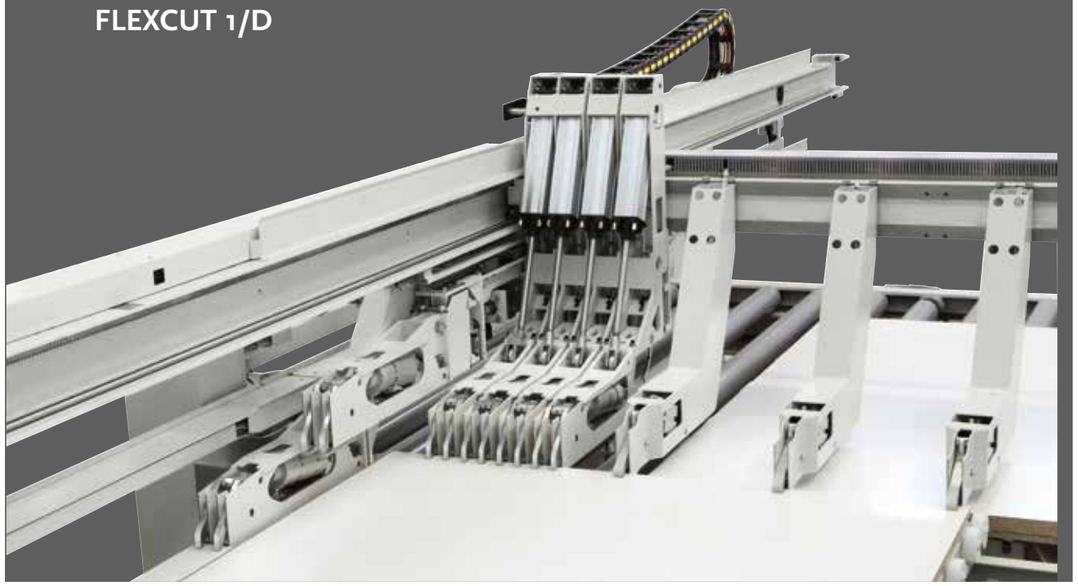
flexibility and productivity

FLEXCUT:
The modular FLEXCUT system enables the processing of complex cutting patterns in very rapid cycle times.

Incomparable precision
The use of brushless motors sliding on prismatic guide with recirculating balls screw reduces mechanical parts friction and guarantees best precision.

The extreme flexibility of this device is also ensured by the presence of the main pusher grippers, which can be excluded from the working area, so that strips with different widths can be secured and as a result any type of different cutting can be performed without limiting the stroke.

FLEXCUT 1/D



Simultaneous execution of two-differentiated cuts
Device consisting of a mobile grippers unit whose stroke is completely independent due to the two independent pushers which enable the following operations:
- cross and rip cuts
- cross cuts on side-by-side bars
- cross cut during the platform loading and a following longitudinal cut

INCREASING OF PRODUCTIVITY UP TO 40% AND SPACE SAVING UP TO 20% THANKS TO THE SIMULTANEOUS EXECUTION OF BOTH RIP AND CROSS CUTS.

gabbiani g 3/gt 3
loading platform

Loading platform: when sturdiness and precision make the difference

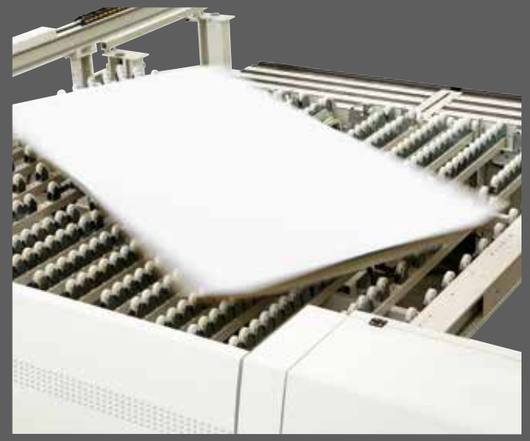
The lifting system running on 4 large trapezoidal screws is able to maximize the load capacity, with any material and format, always ensuring a **parallel lifting** of the panels stacks. In this way machine downtimes are avoided achieving **maximum productivity.**





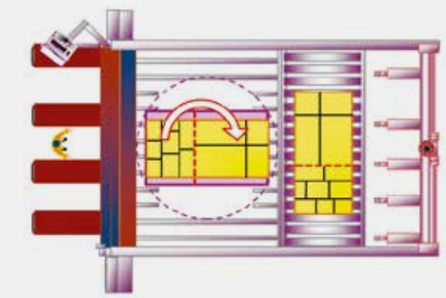
Front alignment devices for the automatic loading.

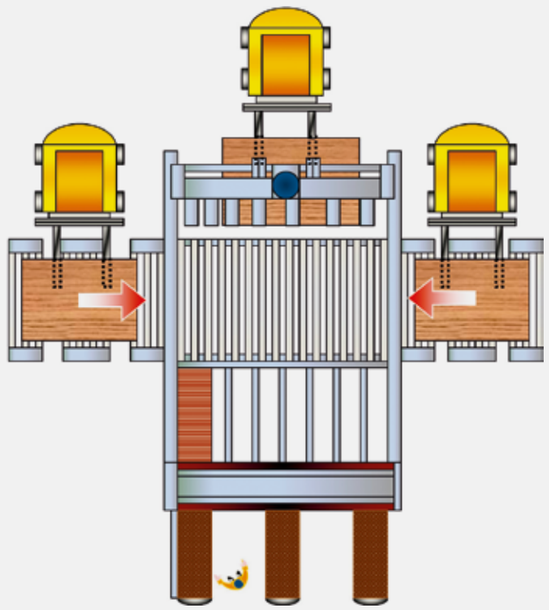
Automatic head-cut management device: produce faster
A sturdy metallic frame holds up the panels stack during the rotation cycle.
The main pusher automatically moves the panels stack from the loading rear table to the centre of the rotating table.
The system automatically manages the cutting of the “Slave” section and the reintroduction and rotation of the “Master” section.

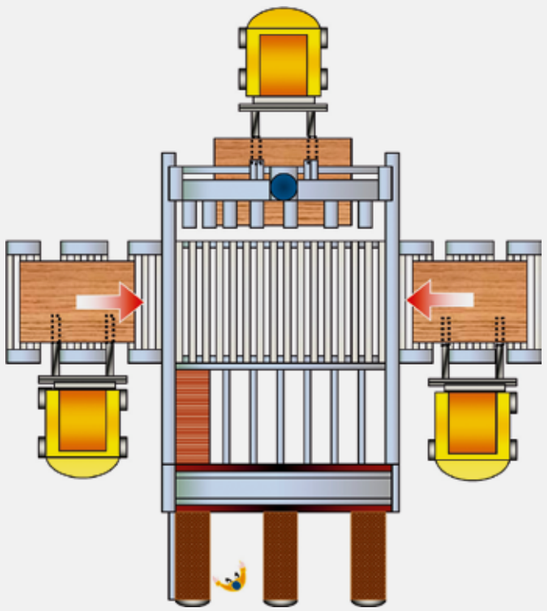


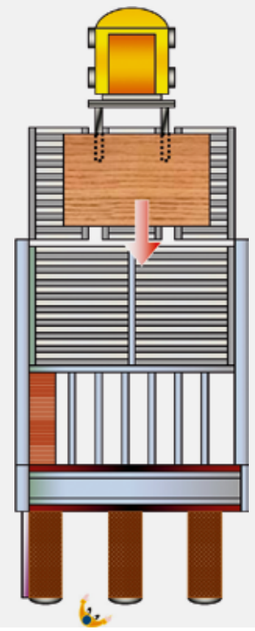


Preloading roller conveyors:
space is not a problem anymore
One or more preloading roller conveyors allow the endless running of the saw.
Loading and unloading systems of the “half stack” and the baseboard or pallet handling offer effective solutions to space and production needs.









gabbiani g 3/gt 3

automatic loading of thin and delicate panels



AUTOMATIC LOADING SYSTEM OF THIN PANELS: GABBIANI EXPERIENCE AT CUSTOMER DISPOSAL

Precise and **effective** device which ensures the automatic loading of thin panels with thickness ranging between 3 and 10 mm.

The device foresees the machine worktable with closure covers.

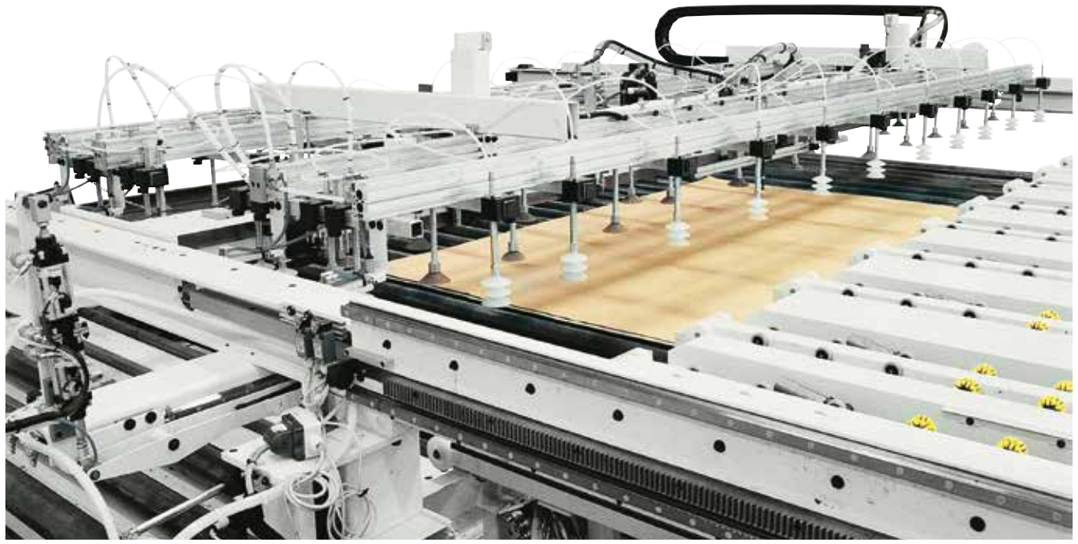
For the thin panels stack loading/unloading it is compulsory a support panel (25 mm minimum thickness).

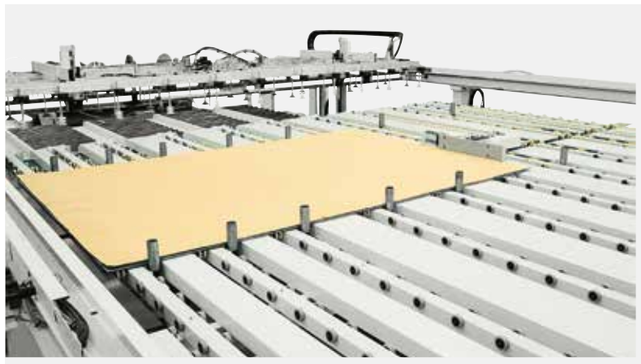
The minimum panel stack which can be loaded and aligned is 15 mm.





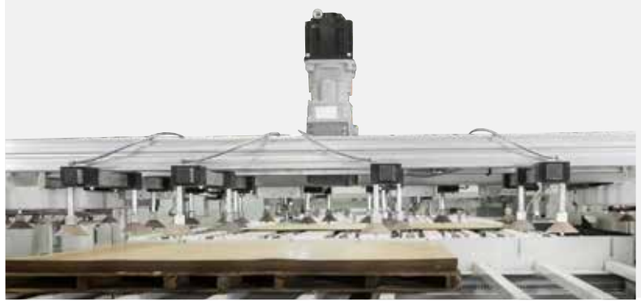
Suction cup loading system: the perfect solution for panels with delicate coating
The suction cup loading system is integrated in the machine to guarantee minimum space requirements.







The suction device takes the single panel and puts it down in masked-time in the alignment station inside the machine.



Maestro Digital Systems

SMART SOFTWARE AND DIGITAL SERVICES TO ENHANCE PRODUCTIVITY OF WOODWORKING AND FURNITURE INDUSTRIES.

SCM accompanies woodworking companies throughout their whole process combining machines with matching software solutions and digital services, with a constant strive to enhance company productivity.

The software solutions powered by SCM are developed to optimize machine usage as well as the entire process, providing integration with the different software existing in the company.

cutting lists > optimized cutting patterns

Maestro office

Office

Factory

Maestro active

optimized cutting patterns > cutting

SOFTWARE

Simple, smart and open.
Maestro software are tailored on the machine technology as well as on the entire process.
All Maestro software share a common mission:

easy to use, so that any operator can easily and confidently learn and use the software

smart, with algorithms and computing modules aiming at the best possible result

open in order to integrate existing software, and provide customer the coverage of all his process

DIGITAL SERVICES

Transforming the way it delivers services to its customers through digital technologies and particularly, the IoT platform that collects and analyses data coming from the machine, **SCM created a world of services enabled by Maestro connect.**

Meaning that connecting an SCM machine through Maestro connect will let customer subscribe a program of fast-evolving services and access a wide range of benefits that even go beyond the machine experience and will support and assist you through the whole life-cycle of your machine.



Maestro connect
IoT Platform

1. Machine monitoring, KPIs, early warning
2. Maintenance equipment
3. Predictive maintenance
4. Report and historical data export to MES
5. Warranty extension
6. Augmented remote support
7. Smart learning, SELF-HEALING, video tutorials
8. Asset management with e-shop SCM Spare Parts



SCM LINEAR CUTTING OPTIMIZATION PROGRAM

In the office **Maestro** ottimo cut and **Maestro** pattern provide support during the design and optimization phases. **Maestro** pattern office is the standard optimization program that can be used from the office for simple and efficient creation of cutting programs. **Maestro** ottimo cut is the linear cutting optimization program created for production management directly from the office. Depending on users' parameters, it automatically generates the cutting patterns, identifying the best solution among different results.

SOFTWARE

Office

TO EACH HIS OWN OPTIMIZATION SOFTWARE

Maestro pattern office is the standard optimization program for all SCM machines.
Maestro ottimo cut is the professional software for controlling the entire costing and optimization process of the beam saw.

ADDITIONAL FUNCTIONS

Maestro pattern office

Maestro pattern office is the office version of the standard optimization program for all SCM machines. Maestro pattern office is the result of the integration between Maestro pattern - the standard optimization program on all SCM beam saws controls – and Maestro pattern import.

Maestro ottimo cut

Maestro ottimo cut is the professional software supplied by SCM for beam saws management. It enables the following functions:

- Grained panels management (longitudinal and cross)
- Materials, pieces and edges stocks management
- Preventive calculation of costs and machining time
- Customized report printing with statistical production data
- Labels with integrated graphic editor
- Sends of cutting programs with labeling data included to the beam saws control

Maestro ottimo import

Additional module to Maestro ottimo cut in MS Excel environment that exports to Maestro ottimo cut:

- 10 fields for panels description (length, width, quantity, grain…);
- 36 fields of information import for labeling machine;

Maestro converter cut

Maestro converter cut is the module that allows to integrate any type of cutting optimization programs with SCM beam saws through PTX file (minimum release 1.14).



Maestro active cut

Maestro active is the new operator interface software which has been unified across all SCM technologies. A single operator can easily and confidently run multiple machines due to controller and interface consistency: regardless the machine, Maestro active maintains the same look&feel, with many identical icons and navigation buttons, thus ensuring the same approach to interaction.

EASE OF USE
The new interface has been specifically designed and optimized for immediate use via touch screen. Graphics have been redesigned for simple and comfortable navigation, with tablet-like icons on touch screen controller.

"ZERO" ERRORS
Improved productivity thanks to integrated help and recovery procedures that reduce the possibility of error from the operator's side.

SOFTWARE

Factory

Maestro active cut

A REVOLUTIONARY APPROACH TO INTERACT WITH YOUR SCM MACHINE

FULL CONTROL OF PRODUCTION PERFORMANCES
The creation of customizable reports by operator, shift, program, forecast period (and much more) allows to monitor, optimize and improve the production performance.

FULL MACHINE AWARENESS AND KNOWLEDGE MANAGEMENT SYSTEM
Maestro active allows to record the times related to setup, maintenance, training and other events, tracing all the activities in a database. The operator's know-how is also stored and made available to other people inside the organization thanks to the possibility to comment and document all production events or notifications.

ORGANIZE YOUR PRODUCTION
Maestro active allows to create different users with different roles and authorizations (e.g.: operator, maintainer, administrator, ...). Any user can only execute the functions whose permissions have been assigned to him. It is also possible to define the work shifts on the machine and then detect activities, productivity and events that occurred in each shift.

OPTIMIZATION FUNCTION ON BOARD MACHINE

Maestro pattern is the linear cutting optimization program for user who wants to optimize cutting patterns with a few simple clicks.

SUPPLEMENTARY MODULES

Maestro pattern import

Maestro pattern import is the optional plug-in module which enables Maestro pattern importing production data directly from an MS Excel file.

Cut editor

Labels printing software, panels editor, editor for Macro machining creation.

Cut utility

Cuts editor for panels de-tensioning: software program that reduces tensions inside the material on longitudinal cuts; additional optimisation functions; off-cuts stock management: identification and automatic insertion of the off-cuts for a future use.

Cut manager

Simulator for cycle time calculation, simulated execution of the cutting diagrams of single or multi orders in 2D mode; priority-based and date-based scheduling of the order; advanced report.

A WORLD OF SERVICES FOR GREATER EFFICIENCY

Maestro connect

CONNECT YOUR MACHINE AND GAIN ACCESS TO A WORLD OF SERVICES
Connecting your machine through Maestro Connect will let you subscribe a program of fast-evolving services. You will access a wide range of benefits that even go beyond the machine experience and will support and assist you through the whole life-cycle of your machine.

FASTER SERVICE INTERVENTION AND PROBLEM RESOLUTION
Maestro Connect provides real time data and Health Records of the Machine also to SCM Service drastically reducing its troubleshooting time.

WORKING ALWAYS IN PERFECT CONDITIONS
Maestro Connect can provide a full kit of sophisticated sensor devices to detect and warn the operator in case of alarming conditions of the machine.

DIGITAL SERVICES

SMART MAINTENANCE: DOWN TIME REDUCTION
Maestro Connect reduces maintenance downtime thanks to:
- Automatic maintenance notifications and scheduling, to prevent failures and work in the best conditions of use
- Direct connection to SCM Service thanks to an automatic ticket opening function

SMART MACHINE: ANYTIME, ANYWHERE AWARENESS
Connecting your SCM machine also means having your machine always at hand.
Immediate instant notifications in case of alarms or downtimes allow customers to immediately take an action thus optimizing his productivity.

SMART MANAGEMENT: PRODUCTION PERFORMANCE OPTIMIZATION
Reports and KPIs allow further analysis thus increasing Customer Knowledge about his performance and results.

SMART PARTS: FAST PARTS REPLENISHMENT
Repairs are scheduled proactively since the system provides Spare Parts suggestions and a direct Integration with Smart Parts e-shop.

SMART LEARNING: EXECUTE WORK AND RECEIVE PROBLEM SOLVING SUPPORT
Maestro connect provides an intuitive Problem Solving Management System to help the operator to self solve any issue.

SMARTECH: FASTER AUGMENTED SUPPORT
Maestro connect allows augmented reality support by means of Smartech: the head-wearable computers with wireless connectivity that will bring the interaction between customer and SCM service to a higher level.

SMART WARRANTY: YOUR MACHINE ALWAYS IN PERFECT CONDITIONS
Together with scheduled maintenance contracts, you can take care of your asset by doubling the warranty from 1 year to 2 years* for complete peace of mind!
Please read the complete contract to understand terms and conditions.

CONSOLE EYE-M



"console eye-M " Video



gabbiani g 3/gt 3
integrated solutions

flexstore el storage fully integrated in the beam saws:
optimising has never been so easy

flexstore el is the SCM solution for the **needs of companies making items to order** with "just-in-time" production: processing orders quickly, keeping costs down and high quality and productivity standards.
flexstore el is the automatic storage system which is able to serve beam saws, guaranteeing **precision, high component quality and great reliability.**



The excellent materials management permits high productivity and flexible machining.
Ensure:
- material savings thanks to management of material remaining after machining
- maximum flexibility for multi-function cells
- optimised material management in the production process: less space occupied, without compromising on efficiency
- reduced risk of damage to material thanks to the absence of sliding movements
- full traceability for batch 1 production with automatic labelling
- machines with integrated production process
- reduced order execution times



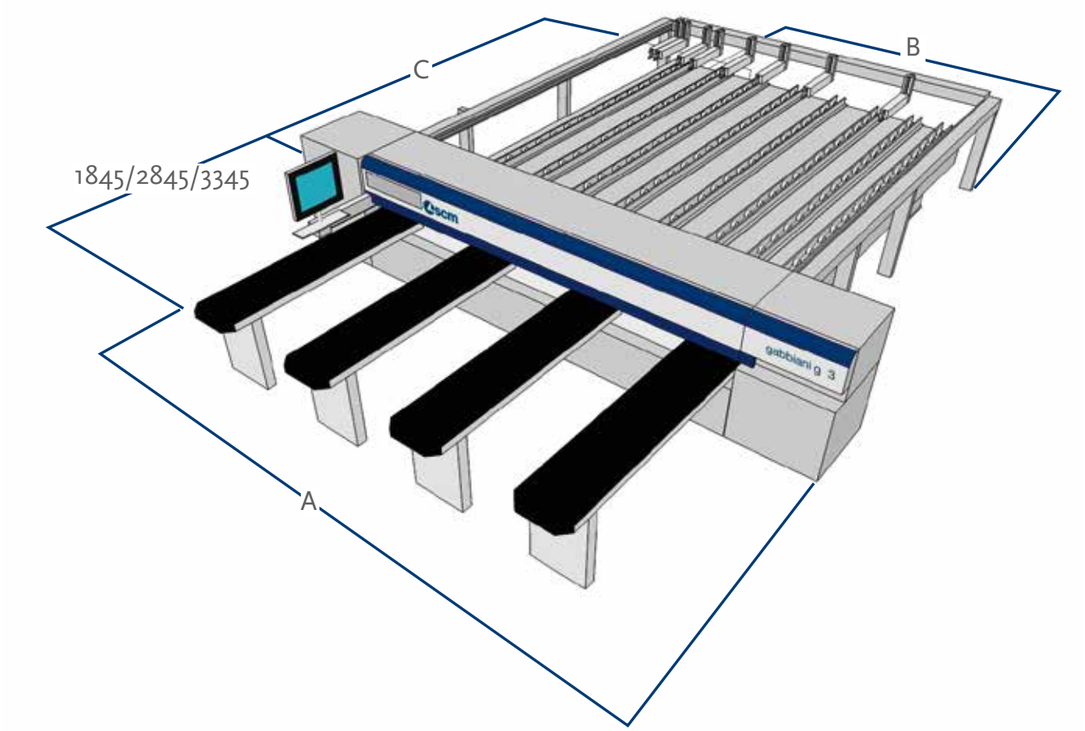
Secure and precise panels transfer.
The suction cup arm automatically adapts to the different lengths and widths of the panels to be picked up.



gabbiani g 3/gt 3

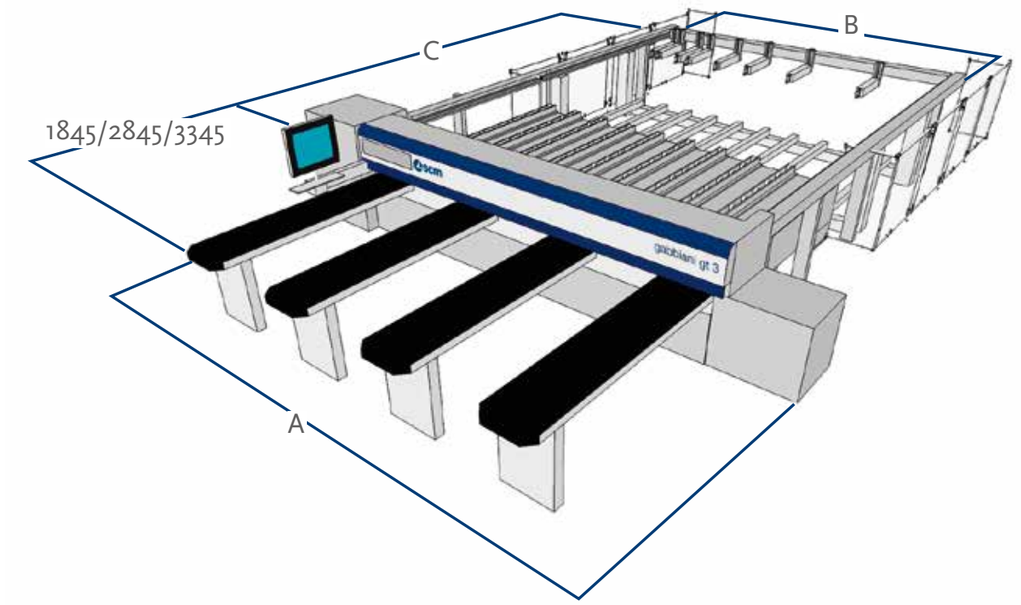
overall dimensions

gabbiani g 3



Cutting dimensions	A	B	C
3200 x 3200	5800 (6370*)	3973	4567
3800 x 3800	6400 (6970*)	4573	5279
4500 x 4300	7100 (7670*)	5273	5780

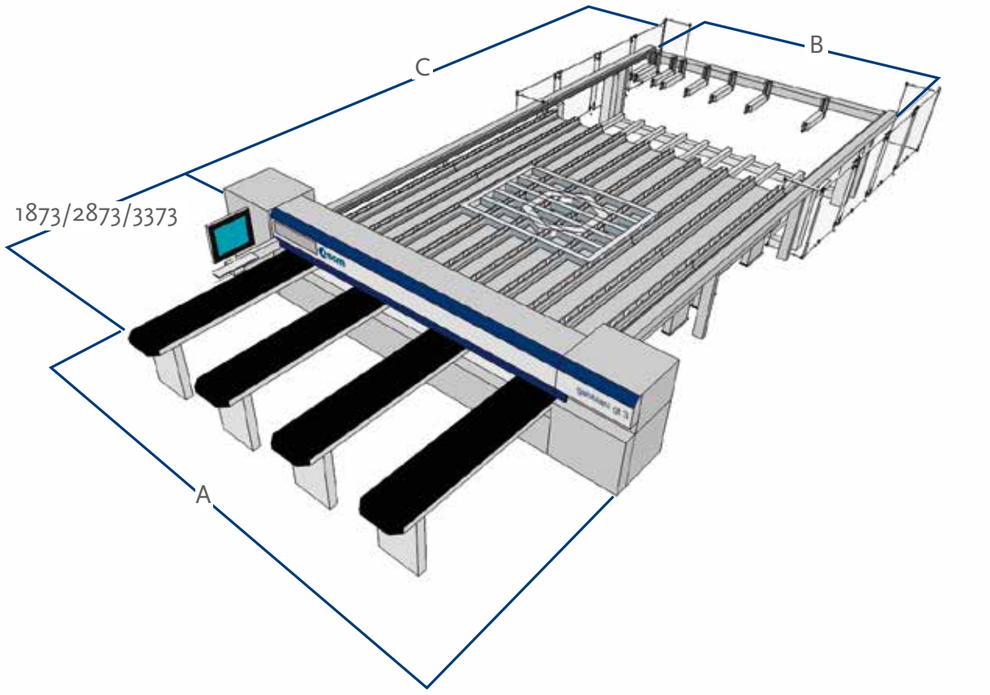
gabbiani gt 3



Cutting dimensions	A	B	C
3200 x 1850	5800 (6370*)	4513	6740
opt. 3200 x 2440	5800 (6370*)	4513	8100
3800 x 1850	6400 (6970*)	5113	6740
opt. 3800 x 2440	6400 (6970*)	5113	8100
4500 x 2440	7100 (7670*)	5813	8100
5600x2440	8500 (9070*)	7213	8100

gabbiani g 3/gt 3
overall dimensions

gabbiani gt 3 with rotating table



Cutting dimensions	A	B	C
3200 x 2440	5800 (6370*)	4513	10472
3800 x 2440	6400 (6970*)	5113	10472
4500 x 2440	7100 (7670*)	5813	10472
5600 x 2440	8500 (9070*)	7213	10472

* gabbiani g 3/gt 3 130 with HI-TRONIC carriage optional
gabbiani g 3/gt 3 145
gabbiani g 3/gt 3 165

Endless panel sizing solutions with gabbiani g 3/gt 3.



SAV€NERGY
LOWER CONSUMPTION = LOWER COSTS
Sav€nergy 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 10% (optional).

Maximum noise levels measured according to the operating conditions established by EN 1870-13:2012
Acoustic pressure in process 85 dbA (measured according to EN ISO 11202:2010, uncertainty K = 4 dB)
Acoustic power in process 103 dbA (measured according to EN ISO 3746:2010, uncertainty K = 4 dB)
Even if there is a correlation between above mentioned “conventional” noise emission values and average levels of personal exposure of operators over eight hours, these last also depend on the real operating conditions, duration of exposure, acoustic conditions of the working environment and presence of further noise sources, this means the number of machines and other adjacent processes.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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.

PROMPT AND EXPERT TECHNICAL SUPPORT THROUGH **A NETWORK OF 1000 TECHNICIANS AND AN INVENTORY OF 36,000 SPARE PARTS.**

HIGHLY SPECIALISED TECHNICIANS, EFFICIENT MANAGEMENT AND 6 SPARE PARTS BRANCHES AROUND THE WORLD GUARANTEE A CLOSE, SAFE AND EFFECTIVE TECHNICAL SUPPORT.

SERVICE:
A CONTINUOUS COMMITMENT TO PROTECT YOUR INVESTMENT

SERVICE

SCM provides a service that goes beyond the purchase, to guarantee the long term performance of your technological production system and peace of mind for your business.

A COMPLETE RANGE OF AFTER-SALES SERVICES

- installation and start-up of machines, cells, lines and systems
- tailored training programs
- telephone support to reduce times and costs when machines are not working
- preventive maintenance programs to guarantee long term performance
- complete renovation of machines and plants to renew the added value of the investments
- custom upgrading to update machines and plants and meet new production requirements

SPARE PARTS

SCM Group can count on 140 spare parts professionals worldwide to meet any request with real time shipments.

36,000 SPARE PARTS
Our spare parts inventory, with a value of 12 million euros, covers every single machine

SPARE PARTS GUARANTEED
We guarantee also hard to find parts, with 3,5 million euros invested in “critical“ spare parts.

IMMEDIATE AVAILABILITY
Over 90% of orders received are carried out the same day thanks to the huge inventory available.

6 BRANCHES AROUND THE WORLD
The spare parts service can count on worldwide support (Rimini, Singapore, Shenzhen, Moscow, Atlanta, São Bento do Sul

500 SHIPMENTS A DAY



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
20.000 machines manufactured per year
90% export
20 foreign branches
400 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.

- scm — WOODWORKING TECHNOLOGIES
- Cms — TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL

INDUSTRIAL COMPONENTS

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

- HITECO — SPINDLES AND TECHNOLOGICAL COMPONENTS
- es — ELECTRIC PANELS
- steelmec — METALWORK
- scmfonderie — CAST IRON

scm woodworking technology | *is more*