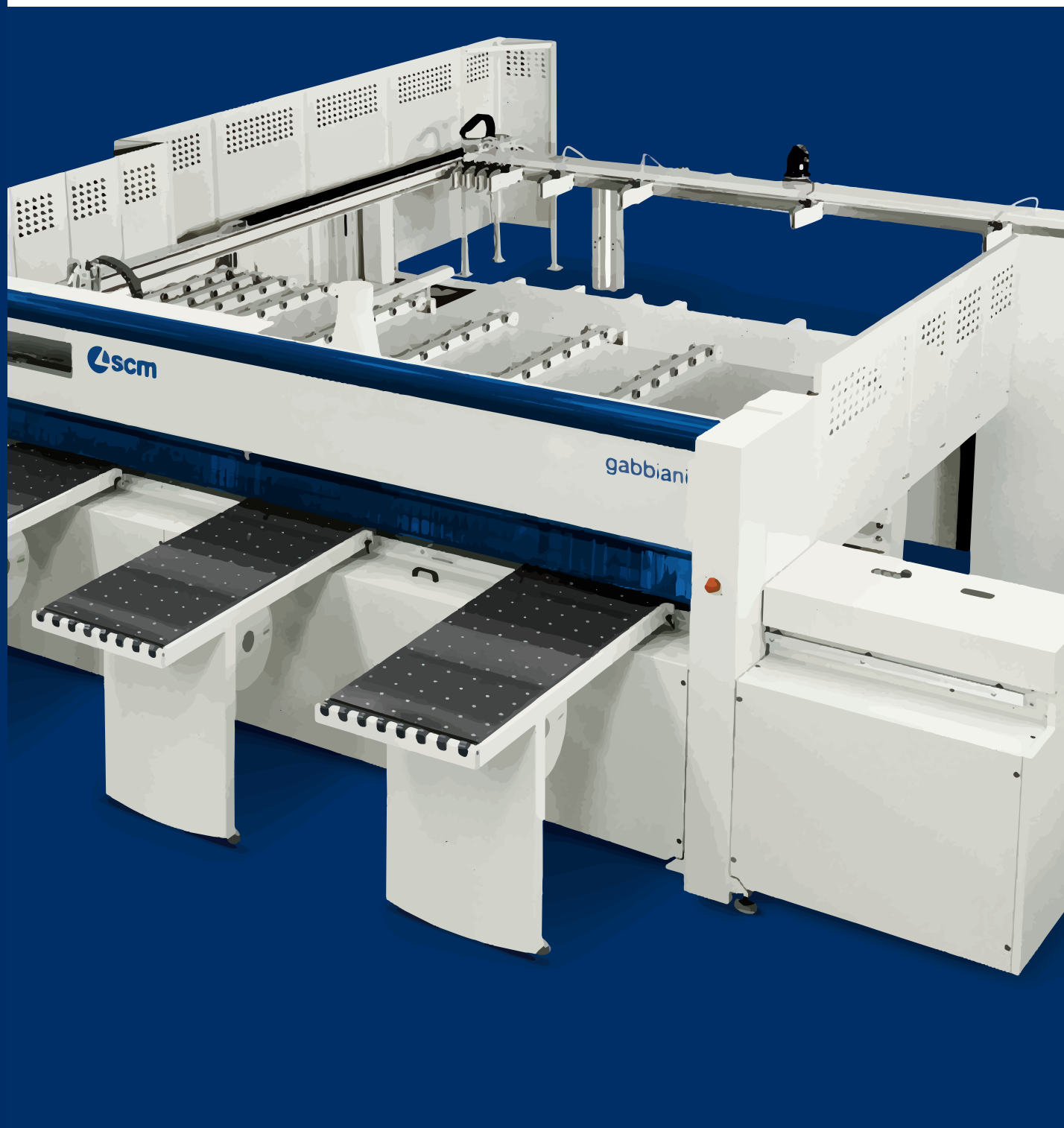
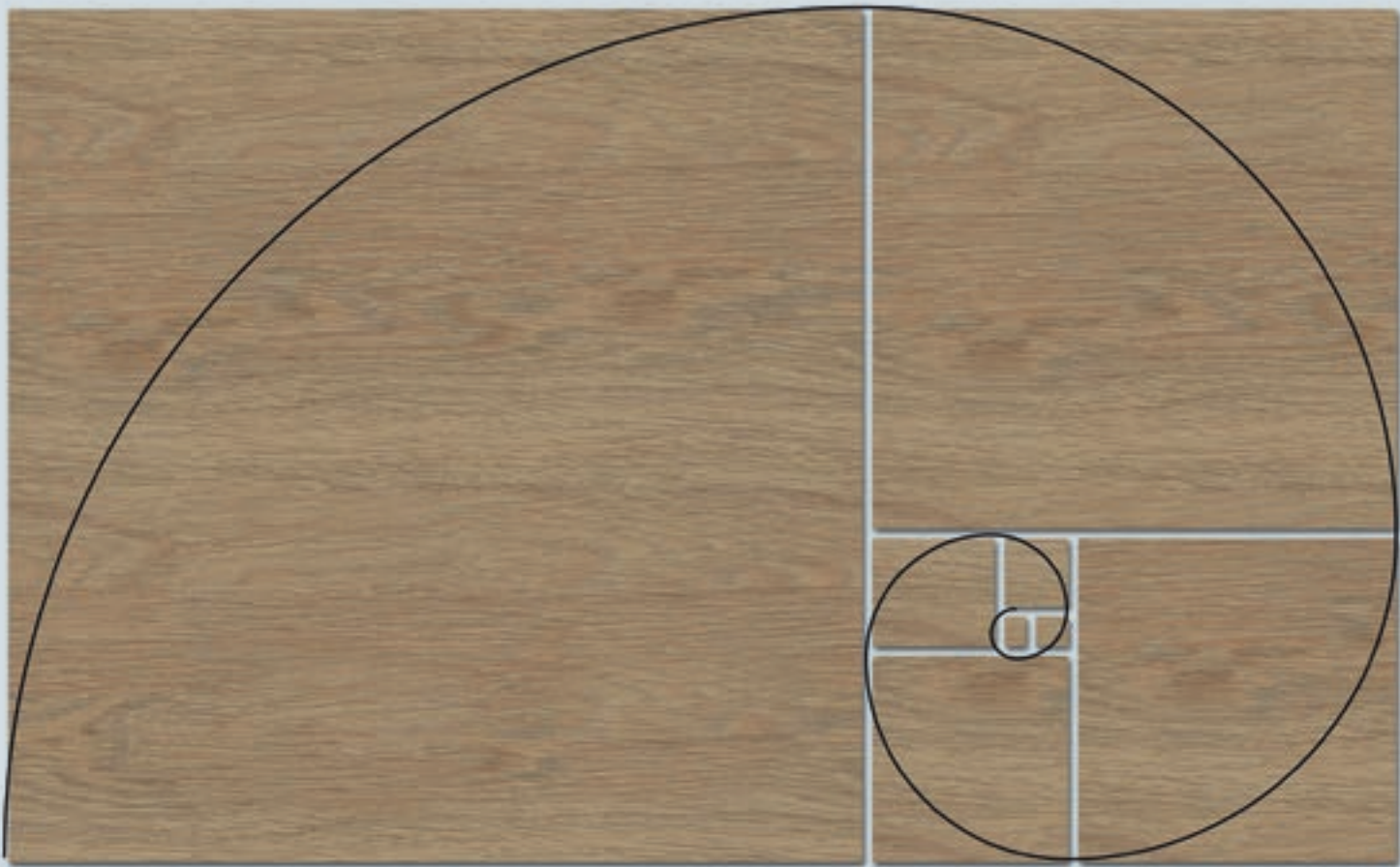


gabbiani s/st

automatic horizontal beam saws



THE PERFECT BEAM SAW



THE SIMPLICITY OF A FLAWLESS CUT



NEVER TO BE COMPROMISED

PERFECTION



Immediate cuts with the maximum cleanliness of the working table.

SIMPLICITY



Ease of use for machining with dedicated units.

VERSATILITY



Several machine settings to satisfy every processing requirement with any kind of material.

POWER



No cutting limit.
No loading limit.
No limit for integration with lines.

SOFTWARE



Planning and monitoring of the entire sizing process, both on board as well as in the office.

26
Optional accessories

30
Tailor-made solutions

32
Overall dimensions

TECHNICAL FEATURES OVERVIEW

TECHNOLOGICAL ADVANTAGES



Modular FLEXCUT system
It enables the processing of complex cutting patterns in very rapid cycle times.



Overhead side protections:
more space for the woodworking workshop
The shape of the protections allows to use the large space under the rear part of the machine as additional storage for panels.



Selectable air blowing table:
an essential tool
Possibility to enable/ disable the air blowing feature on each table section via four independent motors. It ensures optimal sliding of the panels only where it is needed and avoids the accidental falling of panels already cut and temporarily stored on the tables.



Automatic side alignment device: the best precision for cross cutting
Device sliding on linear guideways with recirculating ball bearing, always ensuring cut perfection and cycle time reduction.



Pressure beam: many qualities in a single structure
This structure guarantees a uniform pressure on panels and an optimum extraction of shavings and sawdust with the triple dust conveying system (one on the top applied directly to the pressure beam, one on the bottom applied to the saw carriage and another one on the lateral beam).
Absence of maintenance is granted thanks to the mechanical solution studied by SCM which foresees the pressure beam movement on linear guides.



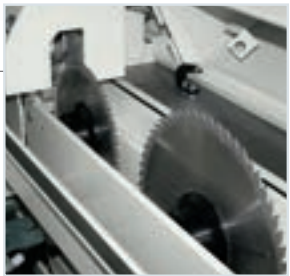
Hi-Tronic vertical stroke device: top of productivity with the new saw carriage (optional).



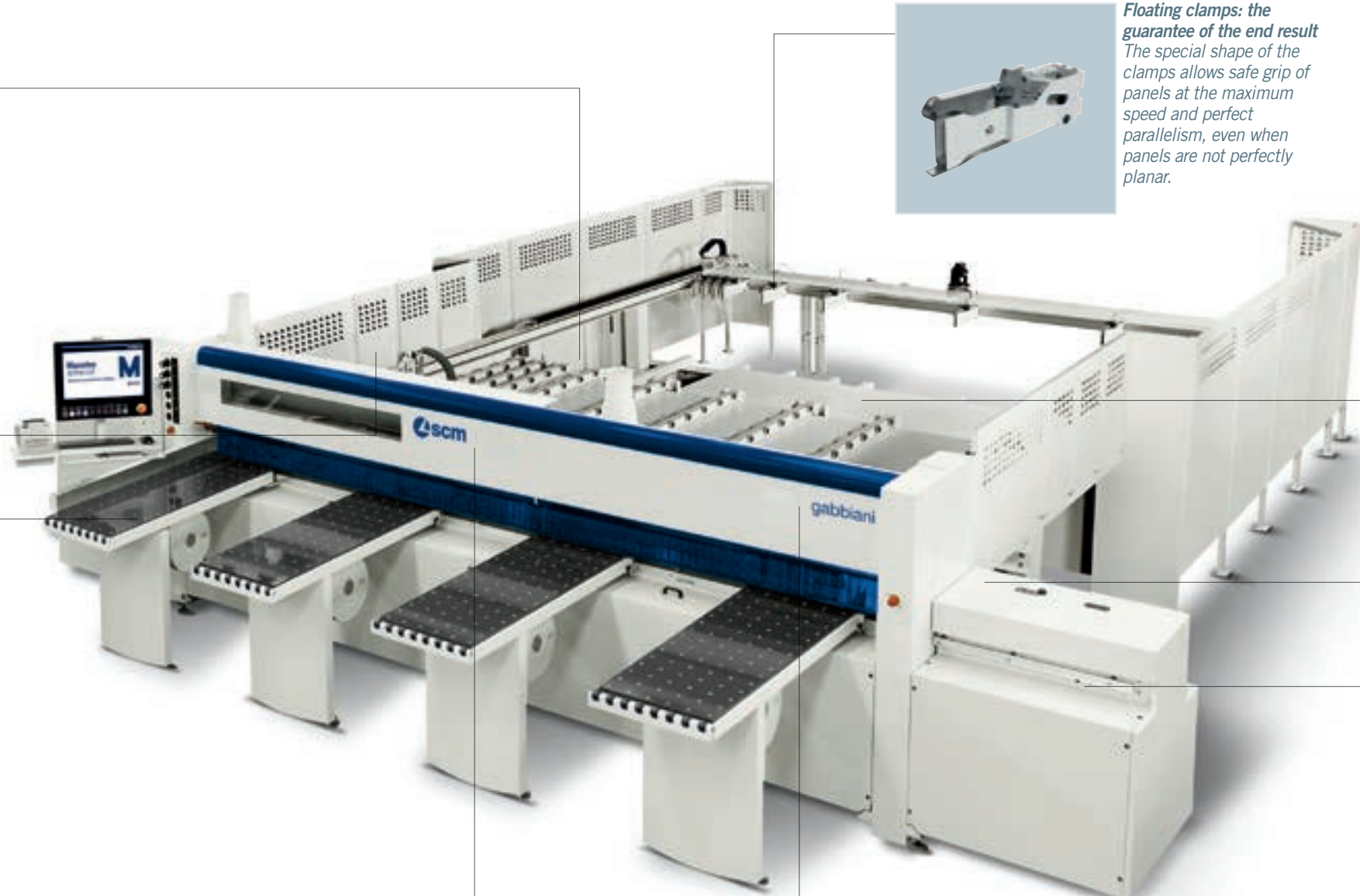
Floating clamps: the guarantee of the end result
The special shape of the clamps allows safe grip of panels at the maximum speed and perfect parallelism, even when panels are not perfectly planar.



Loading platform
High customisation and maximum versatility according to the user's requirements, with powered roller conveyor with trilateral loading (option on gabbiani st).



SAW-SET: tool changing has never been so easy
In a few seconds the "SAW-SET" device carries out fast and precise tools adjustment due to the electronic setting, allowing an intuitive use of the machine and a productivity increase.



PERFECTION OF CUT

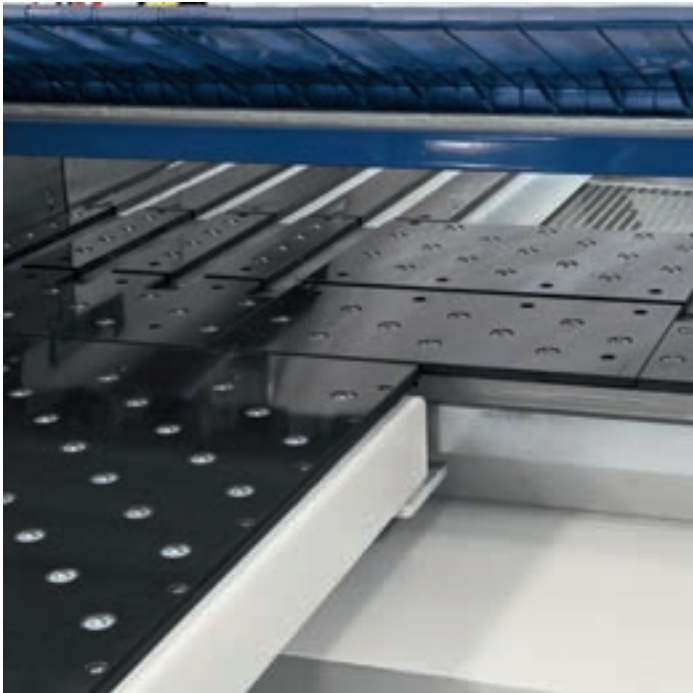
BASE: THE VERY BEST RESULT IS GUARANTEED

Solid machine base ensures precise carriage movements by providing maximum cutting quality over time.



CARRIAGE WITH RECTIFIED ROUND GUIDES

Speed, linearity and precision are ensured with our structure.



AIR BLOWING: ALSO ON THE MACHINE TABLE

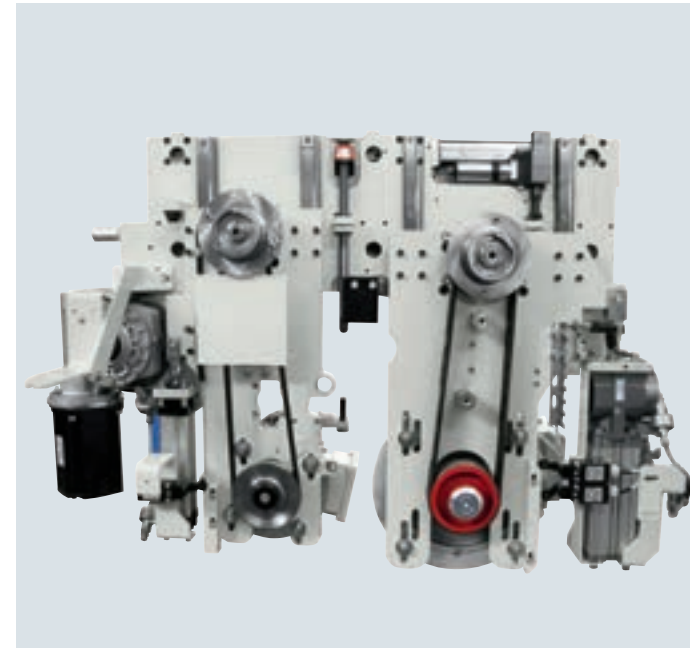
The sliding of heavy or delicate materials is achieved through the air blowing on the cutting table that protects against the risks of friction.



SIMPLICITY AND PERFECTION OF CUT

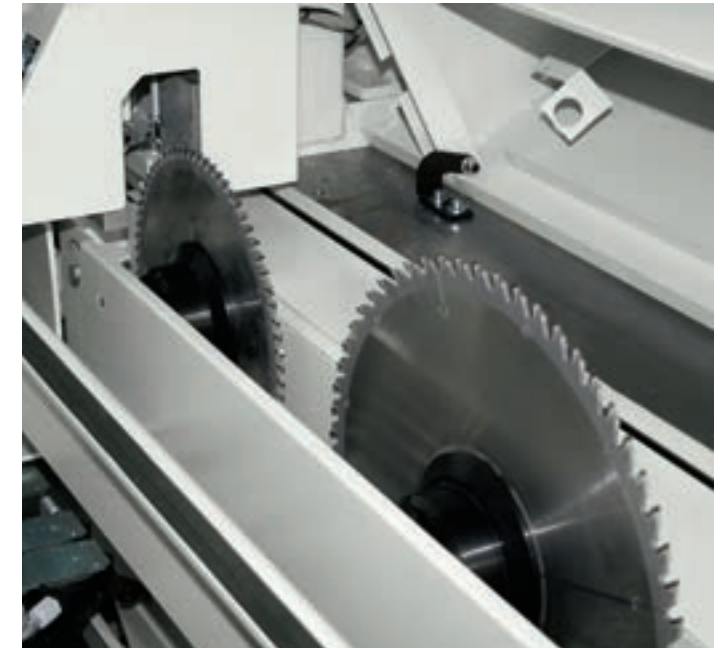
PNEUMATIC BLADES UNLOCKING SYSTEM

Safe and constant blade locking system, due to the pneumatic quick change system.



CARRIAGE WITH PNEUMATIC INDEPENDENT RAISING OF MAIN BLADE AND SCORING BLADE (optional)

on linear guides with recirculating ball bearing.



SAW-SET: TOOL CHANGING HAS NEVER BEEN SO EASY (optional)

In a few seconds the "SAW-SET" device carries out fast and precise tools adjustment due to the electronic setting, allowing an intuitive use of the machine and a productivity increase.



RAPID BLADES LOCKING/UNLOCKING: MACHINING SAFETY IN REDUCED TIME (optional)

Safe and constant blade locking/ unlocking system, due to the pneumatic unlocking system which minimises the standby times for blade changeovers.



AKE DEVICE (optional)

Rapid locking/unlocking of the scoring blades with "EASYFIX" mechanic device ("AKE" patent) allowing a quick and easy change of the blades.

The tightening is ensured both with high blade-motor power and machining of the hardest materials.

"HI-TRONIC VERTICAL STROKE DEVICE" (optional): top of productivity with the new saw carriage.



MAXIMUM PROCESSING VERSATILITY

INCREASING OF PRODUCTIVITY UP TO 30% AND SPACE SAVING THANKS TO THE SIMULTANEOUS EXECUTION OF BOTH RIP AND CROSS CUTS.

FLEXCUT 1S: INCOMPARABLE PRECISION

The use of brushless motors sliding on linear guide with recirculating ball bearing 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 (optional).



"gabbiani s - available
devices overview" Video

FLOATING CLAMPS: THE GUARANTEE OF THE END RESULT

The special shape of the clamps allows safe grip of panels at the maximum speed and perfect parallelism, even when panels are not perfectly planar.

CLAMPS WITH SELECTIVE CLOSING (optional):

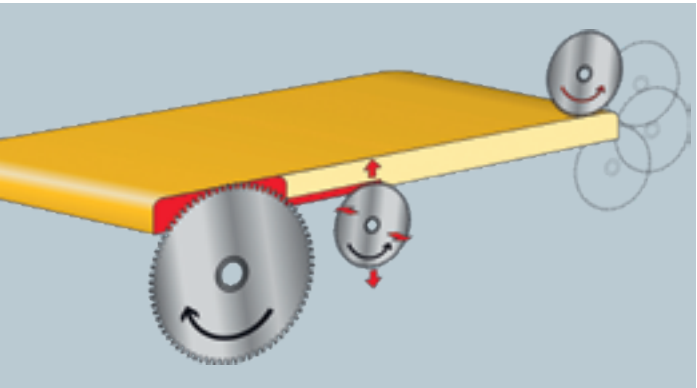
this device prevents ruining panels which edges are exactly positioned in correspondence of the clamps working area.



AUTOMATIC CLOSURE OF THE CUTTING LINE (optional):

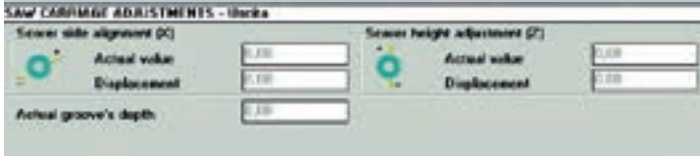
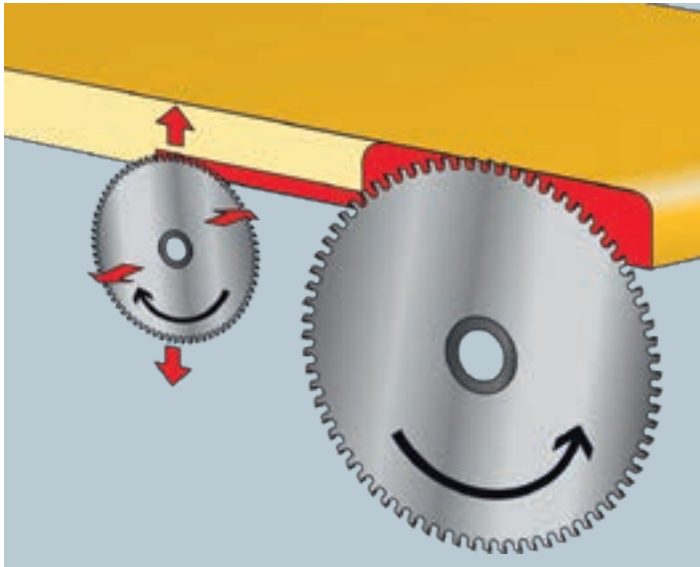
it avoids the fall of waste trim cuts inside the machine.

MAXIMUM PROCESSING VERSATILITY



POSTFORMING

Lateral scoring of edged and postformed bars by means of the scoring blade rise (optional).



**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, drastically reducing the blade set-up time and avoiding any possible errors (optional).



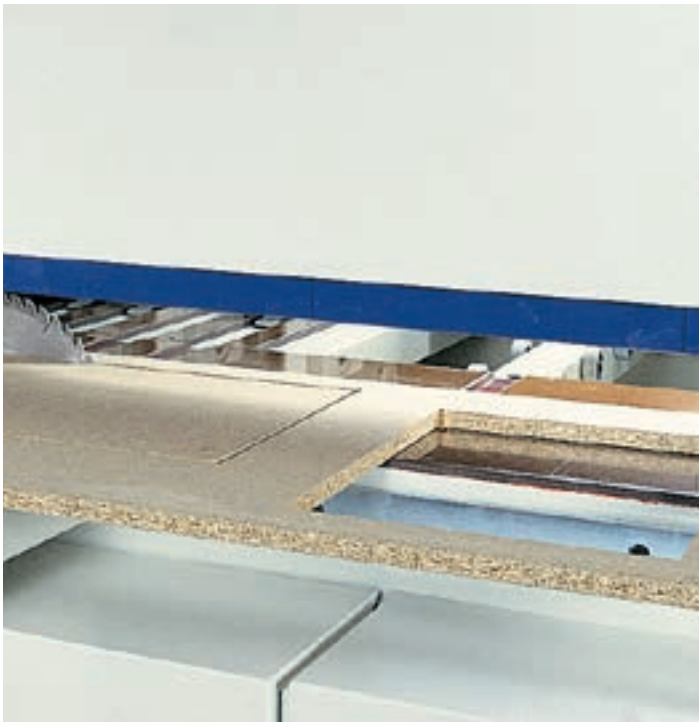
GROOVING EXECUTION

This device makes the beam saw even more flexible (optional).



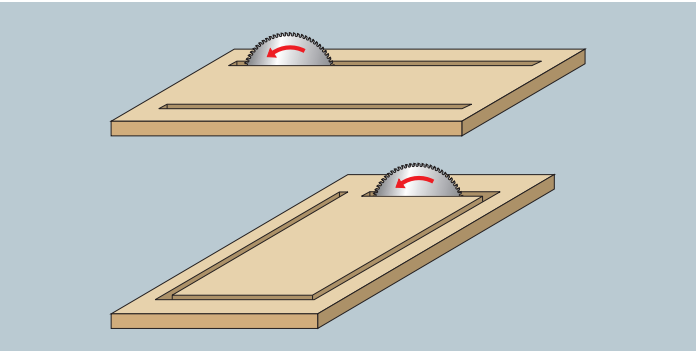
EXECUTION OF PANELS DE-TENSIONING CUTS

Device that reduces tensions inside the material on longitudinal cuts guaranteeing cut linearity (optional).



SLOTS EXECUTION DEVICE: AT THE OPERATOR'S SERVICE

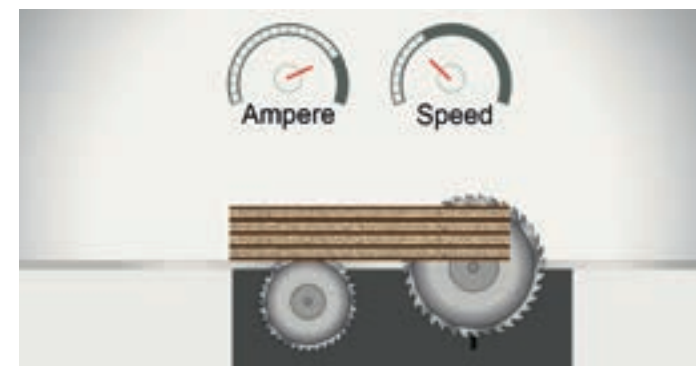
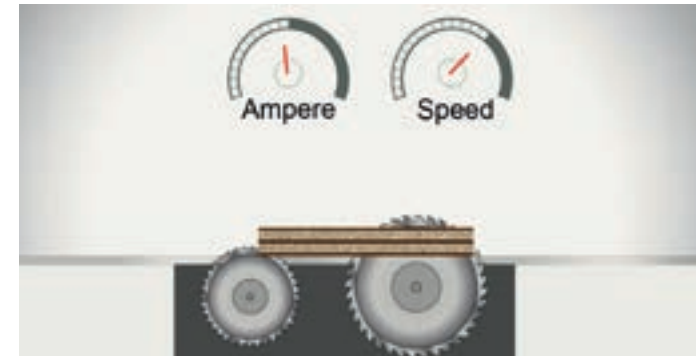
This device allows carrying out interrupted cuttings inside the panel to produce slotted doors (optional).



MAXIMUM PROCESSING VERSATILITY

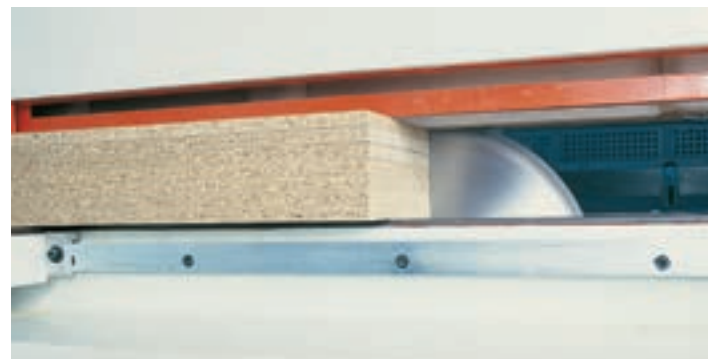
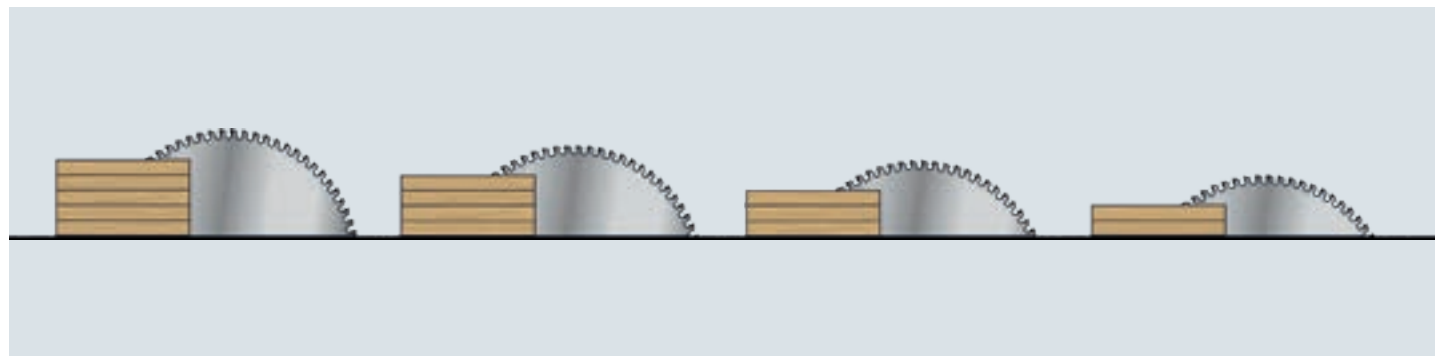
POWERED SIDE ALIGNMENT DEVICE

Drastic cycle time reduction and better grip of the piece by means of the brushless motor (optional).



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** (optional).



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 (optional).



AUTOMATIC WORKPIECE MEASUREMENT: NO POSSIBILITY OF ERRORS

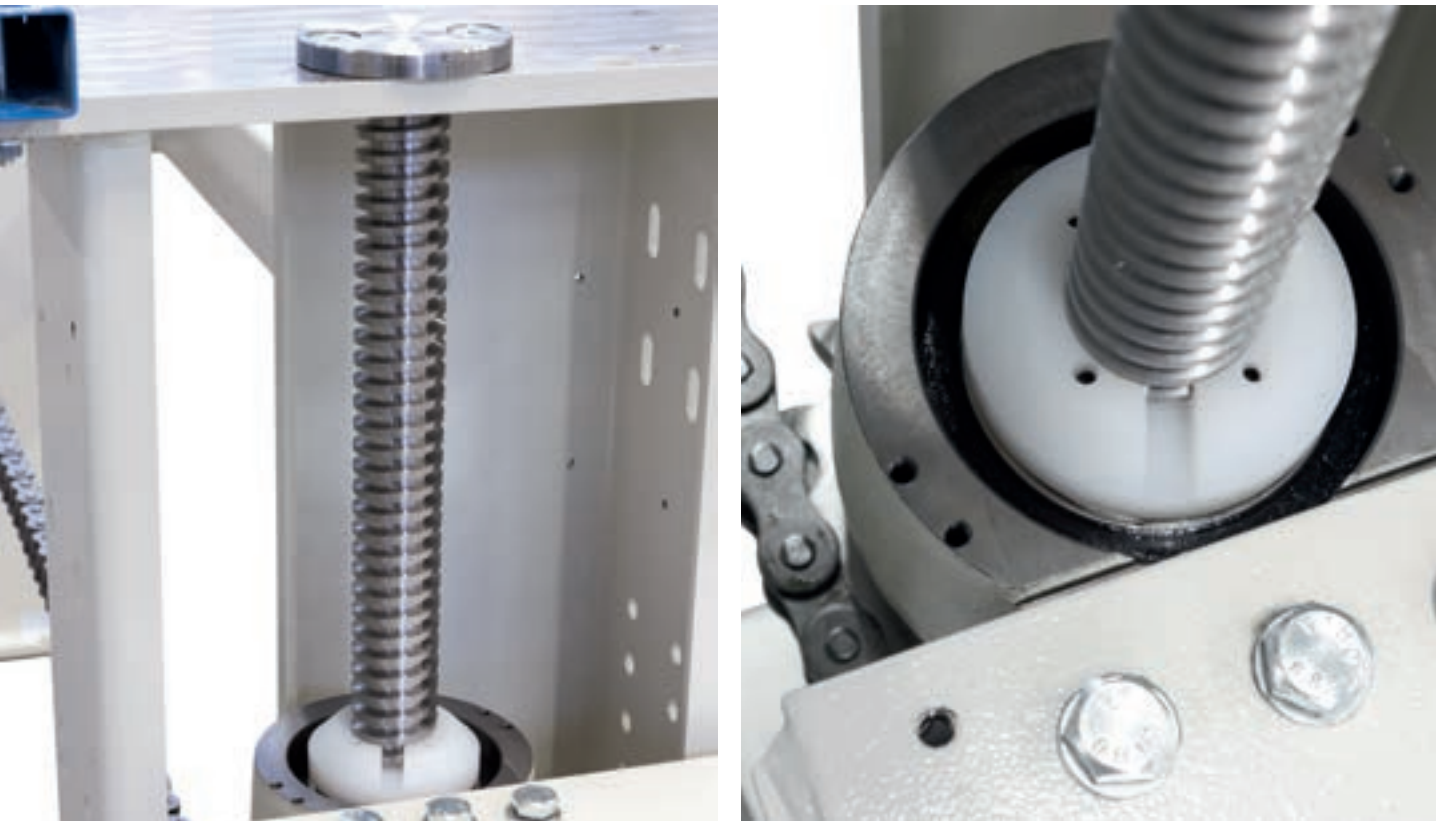
The device automatically detects both the panel size and its position on the work table avoiding difficult manual operations in case of very long panels and slowing down in the production cycle (optional).

LOADING PLATFORM



ALWAYS PARALLEL LIFTING OF THE PANELS STACKS...

The lifting system running on 4 large trapezoidal screws (fig. a) is able to maximize the load capacity (4000 kg), with any material and format, always ensuring maximum configuration with 3 access areas for panels loading /unloading and maximum combination of the panel stack height (600-800-1300 mm).

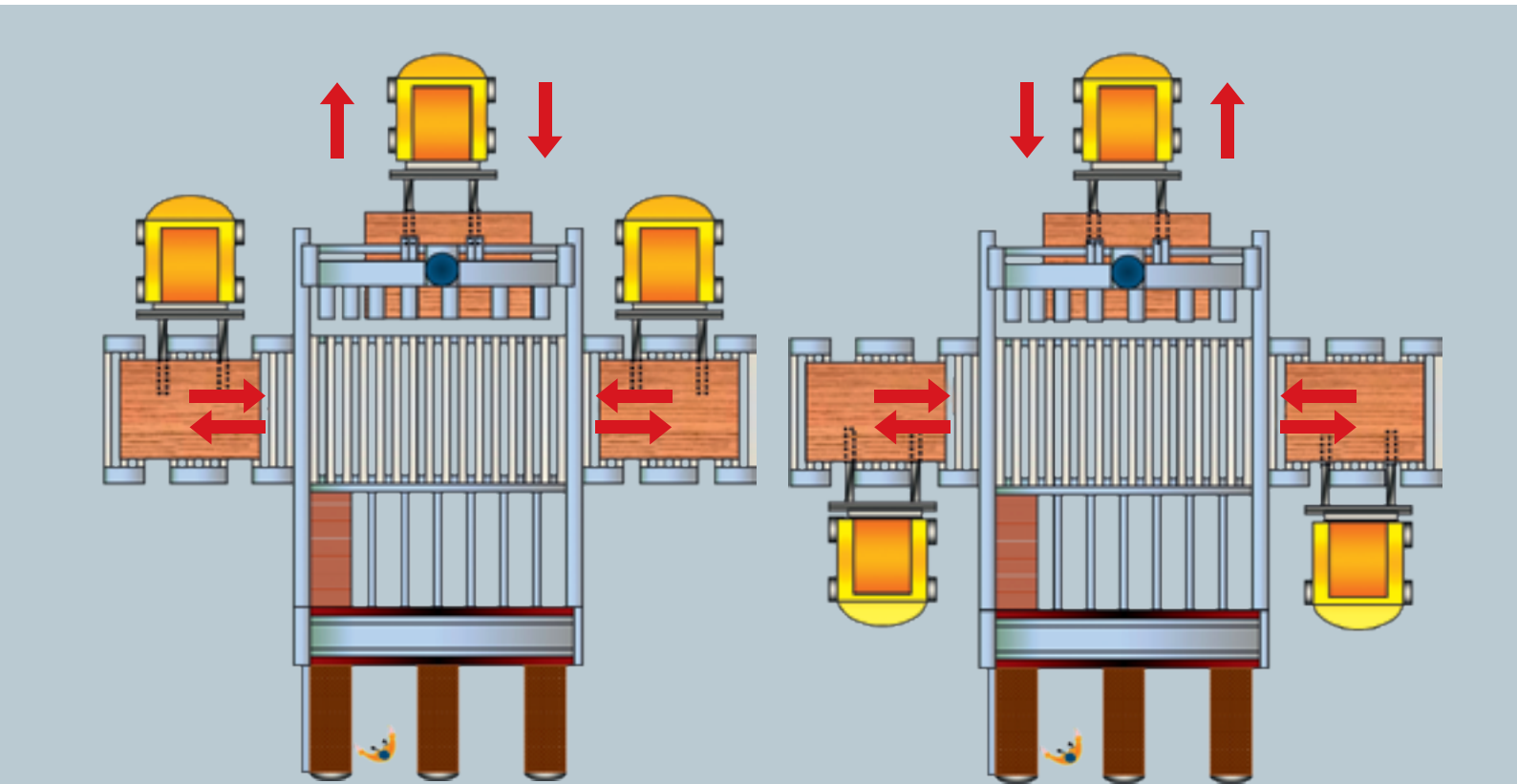


(fig. a)



... AND OPTIMISED SPACES WITH THE 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.



M Maestro Digital Systems

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

gabbiani s/st
automatic horizontal beam saws

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

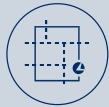
Maestro pattern office is the standard optimization program for all SCM machines.
Maestro ottimo cut is the professional software for controlling the entire costing and optimization process of the beam saw.

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 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

Maestro ottimo import Add-in 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

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.

SMARTTECH: FASTER AUGMENTED SUPPORT

Maestro connect allows augmented reality support by means of Smarttech: 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

gabbiani s/st
automatic horizontal beam saws



"console eye-M"
Video





ADDITIONAL CLAMPS

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



“HIGH SPEED” DEVICE: ABSOLUTE SPEED

Excellent cutting quality in reduced execution time:
axes speed up to 100 m/min on the beam saw carriage and 70 m/min on the pusher.
Optimized logic of cutting cycles on saw carriage, pressure beam and pusher units.



CLAMPS WITH ON/OFF PNEUMATIC STOPS

for veneered panels with overhanging edges.



LABEL PRINTER

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



START-STOP CYCLE PEDAL

Simple and effective management of the cutting cycle even when large panels are on the front tables.



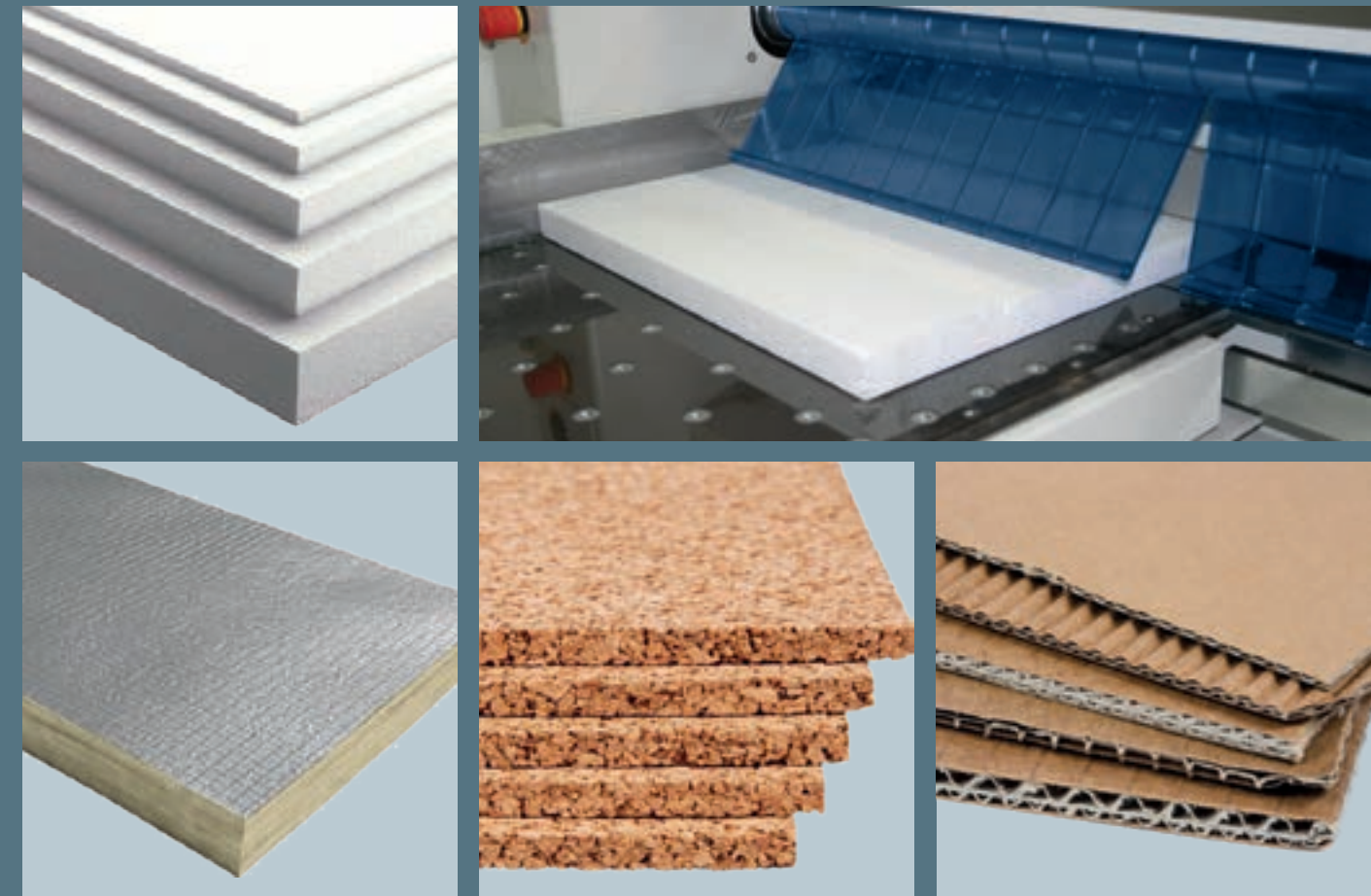
ELECTRICAL CABINET

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

OPTIONAL DEVICES

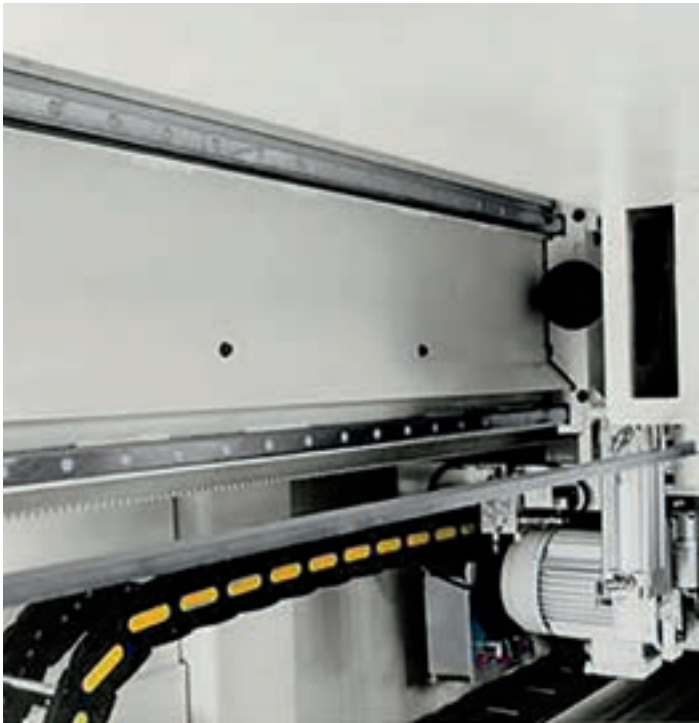
THE PRESSURE BEAM FOR ANY MATERIAL, EVEN THE SOFTEST ONE

The pressure beam with controlled axis is positioned at the cutting height entered by the operator at the pc, ensuring a perfect pressure of the piece during cutting operations. The surfaces of materials to be processed (honeycomb, polystyrene, cardboard, plastic and other materials) will stay safe.



LIFTER: ASSISTED LOADING

Especially suitable for the safe and speed movement of any laminated and chipboard panels which can be hooked by the suction arm.



LINEAR GUIDES WITH RECIRCULATING BALL BEARING: 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).



MAGNETIC BAND: A PRECISE CUT IS ALWAYS GUARANTEED

A very high precision pusher even at high-speed due to electronic control positioning.

TAILOR-MADE SOLUTIONS



gabbiani s/st
automatic horizontal beam saws



SECURE AND PRECISE PANELS TRANSFER.

The suction cup arm automatically adapts to the different lengths and widths of the panel to be picked up.

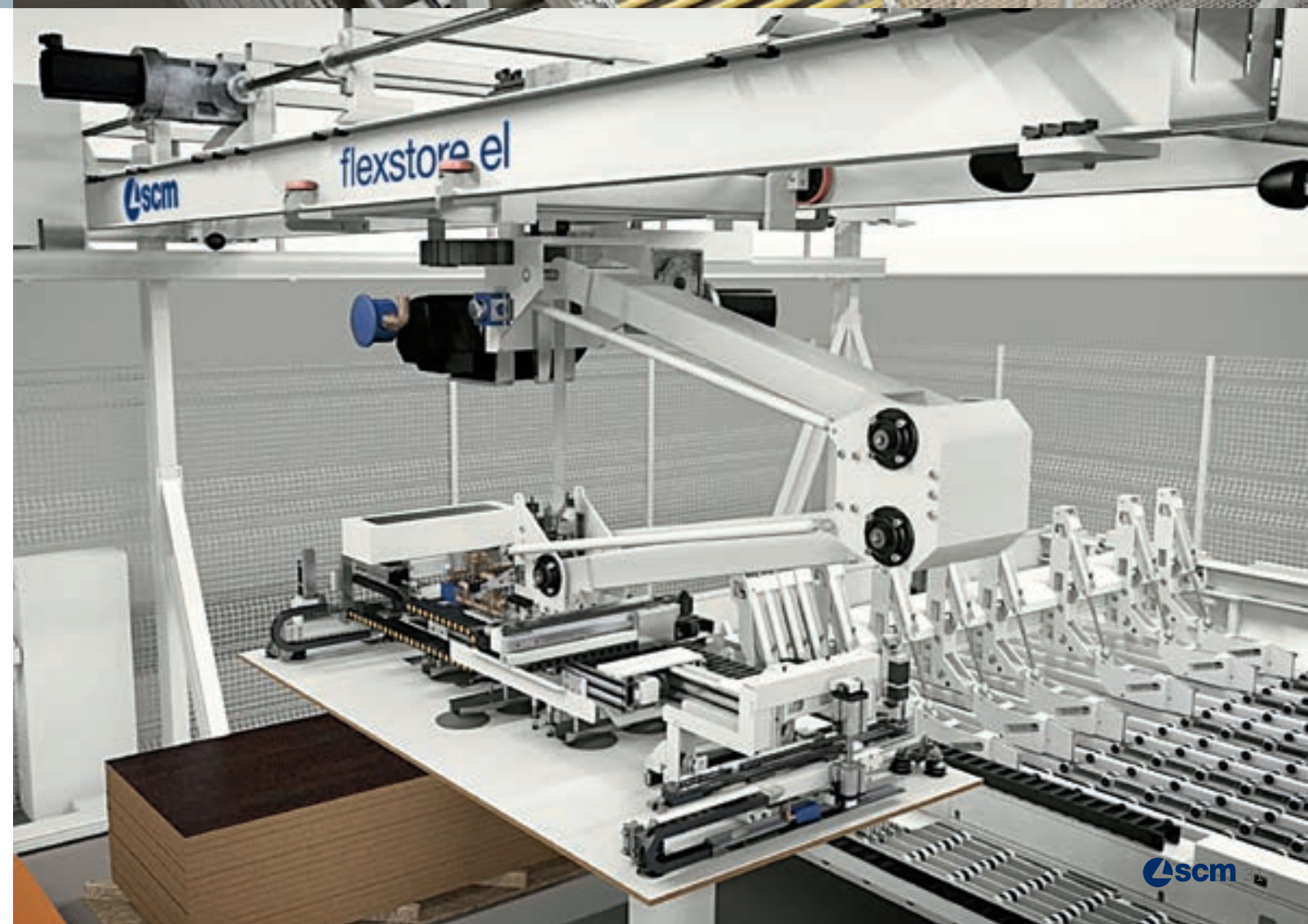
FLEXSTORE EL STORAGE FULLY INTEGRATED IN THE BEAM SAWS: OPTIMISING HAS NEVER BEEN SO EASY

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.

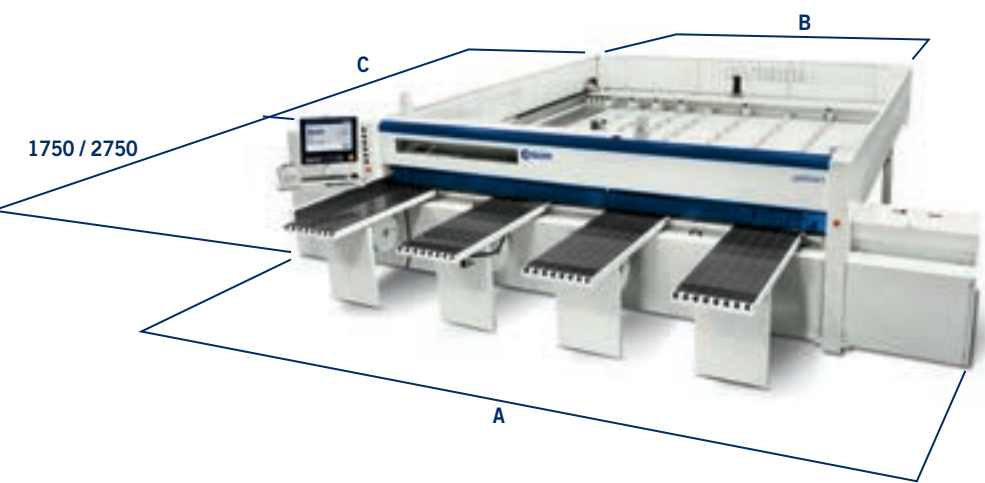
The excellent materials management permits high productivity and flexible machining.

Ensure:

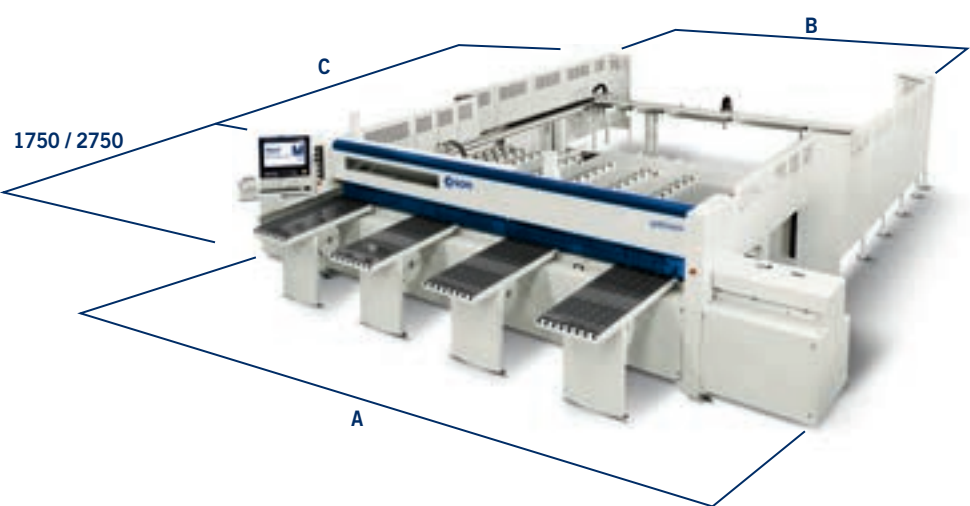
- material savings thanks to management of material remaining after machining
- maximum flexibility for multi-function cells
- optimised material management in the production process: less space occupied, without compromising on efficiency
- reduced risk of damage to material thanks to the absence of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



OVERALL DIMENSIONS



gabbiani s 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 st 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

TECHNICAL DATA

gabbiani s/st
automatic horizontal beam saws

gabbiani		s 95	s 115
Cutting length	mm	3200 - 3800 - 4500	3200 - 3800 - 4500
Blade projection	mm	95	115
Variable saw carriage speed (opt.)	m/min	6 - 60 (0 - 135 / 0 - 150)	6 - 60 (0 - 135 / 0 - 150)
Variable pusher 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 blade motor 500 Hz	kW	1,8	1,8
50 Hz Main blade/scoring blade rotating speed	r.p.m.	3900 / 6300	3900 / 6300
Main blade/scoring blade diameter	mm	380 / 160	400 / 160
Number of clamps	std	5	6

gabbiani		st 115
Cutting length	mm	3200 - 3800 - 4500
Cutting depth on platform	mm	1850 - 2200
Max. panel stack height on loading platform with support beams	mm	600
Blade projection	mm	115
Variable saw carriage speed (opt.)	m/min	0 - 135 (0 - 150)
Variable pusher speed (opt.)	m/min	0 - 70 (0 - 90)
Main blade motor S6-40% (opt.)	kW	9 (11 - 15 - 18)
Scoring blade motor 50 Hz	kW	1,8
50 Hz Main blade/scoring blade rotating speed	r.p.m.	3900/6300
Main blade/scoring blade diameter	mm	400/160
Number of clamps (of which 3 with front aligner)	std	6



TELESOLVE

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



THE USE OF POWER ONLY WHEN IT IS REQUIRED

SavEnergy allows 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.

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.

Maximum noise levels measured according to the operating conditions established by EN 1870-13:2012
Acoustic pressure in process 91 dbA (measured according to EN ISO 11202:2010, uncertainty K = 4 dB)
Acoustic power in process 107 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.

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

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.



WOODWORKING TECHNOLOGIES



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.



SPINDLES AND
TECHNOLOGICAL
COMPONENTS



ELECTRIC PANELS



METALWORK



CAST IRON



is more



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