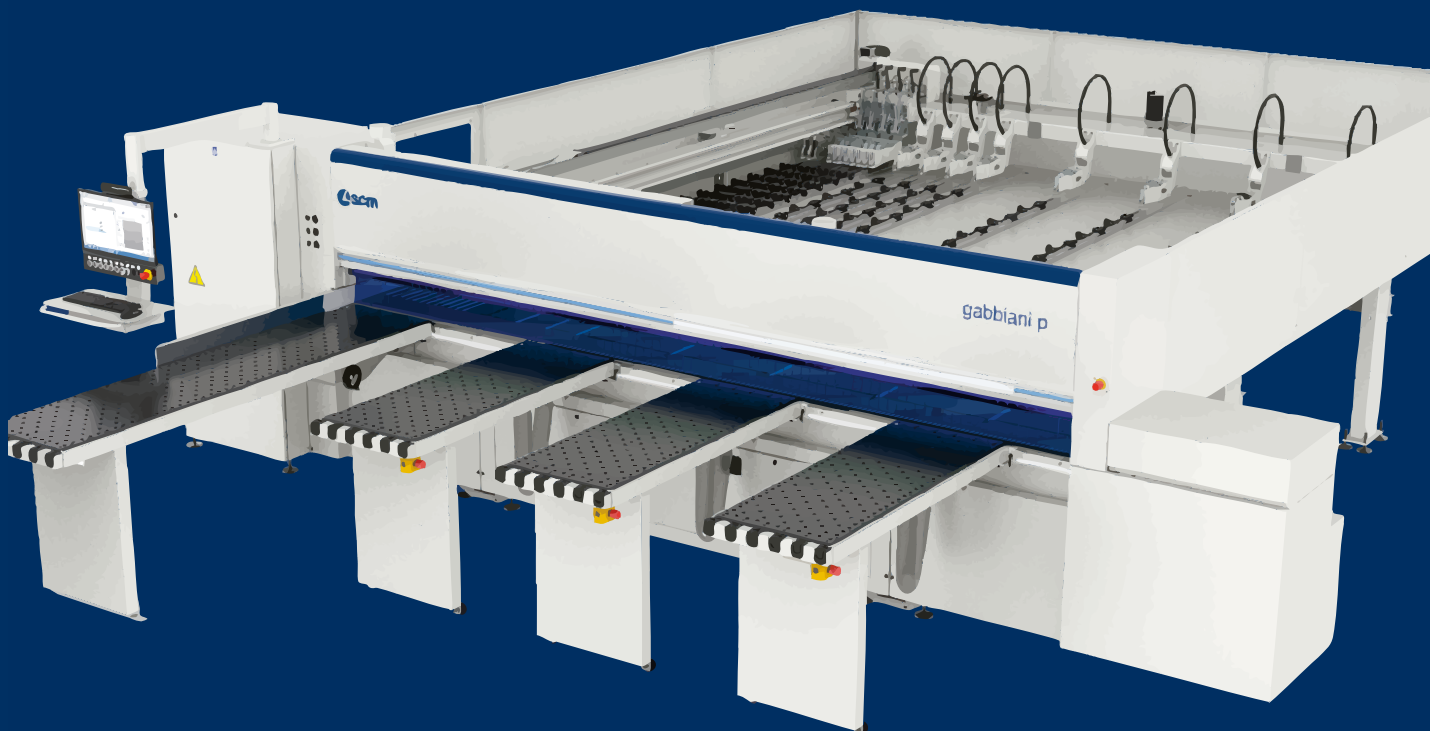


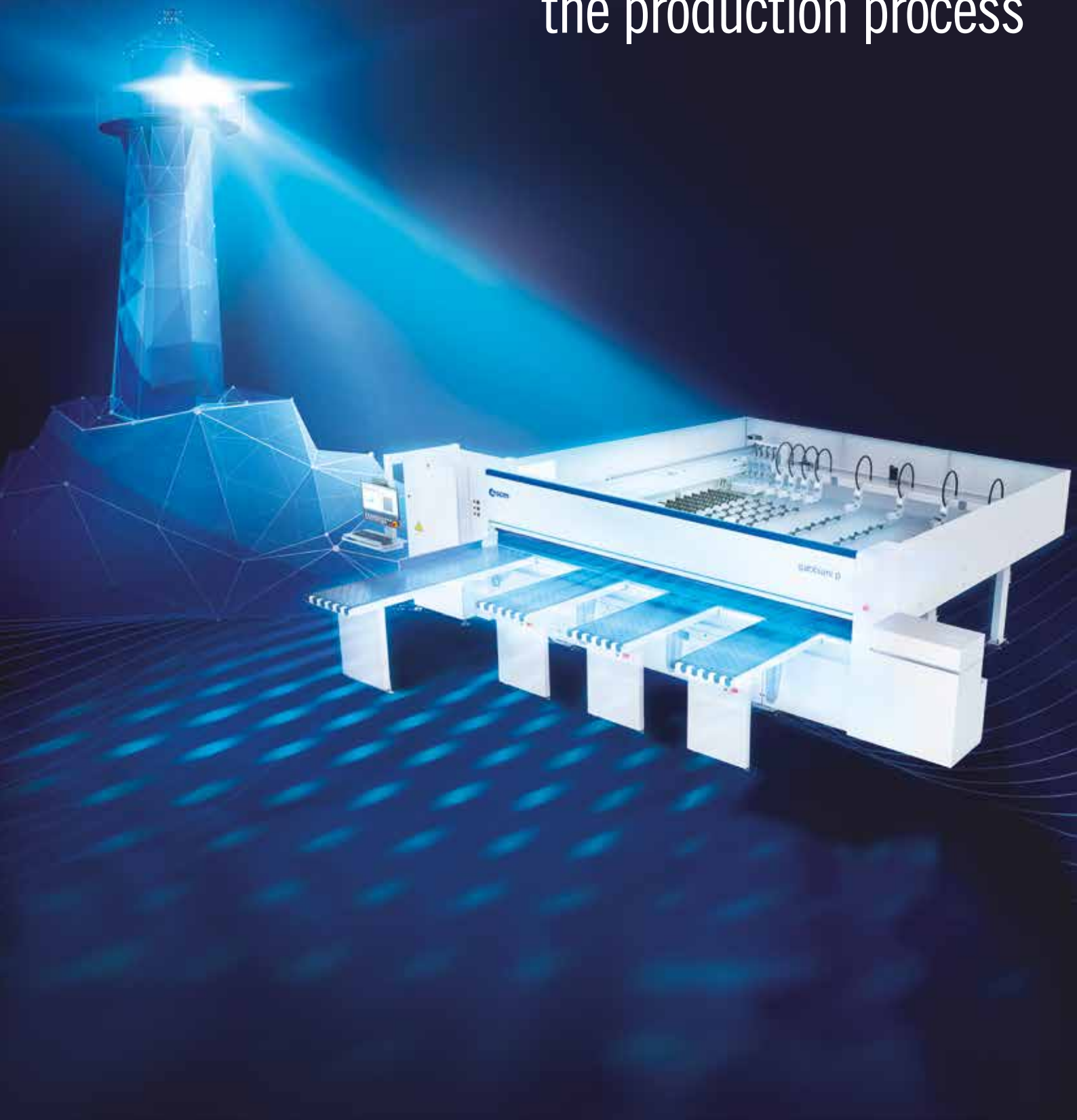
# **gabbiani p/pt**

automatic horizontal beam saws



# NEW GABBIANI P AND PT RANGE

let them guide you through  
the production process



# NEW GABBIANI P/PT



THE BALANCE OF A MACHINE  
**EASY, FAST, FLEXIBLE.**

## FLEXIBILITY



Fast tool setting thanks to the automatisms that allow an easy use of the machine and an increase in productivity.

## PERFECTION



Immediate cuts with the maximum cleanliness of the working table.

## INTELLIGENCE



A LED bar system guides the user through the processing steps for intuitive and secure production monitoring

## 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.

22

Optional accessories

24

Tailor-made solutions

26

Overall dimensions

# TECHNICAL FEATURES OVERVIEW

## TECHNOLOGICAL ADVANTAGES



*Prismatic guide on the pressure beam ensures a fast and uniform cycle and a long service life.*



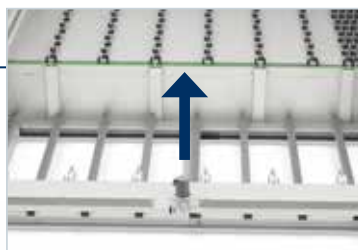
**Front LED bar**  
*Assisted management of the processing on the machine front.*



*Handy openings for inspection and machine cleaning.*



**Movable air floating tables a led bar**  
*Assisted management of the positioning of the movable air floating tables according to the panel format.*



**Rear led bar**  
*Load-assisted management  
of the stack on the lifting  
table.*



**Toothed belt**  
*Transmits maximum power  
with low levels of vibration  
and abrasion.*



**New blade carriage** for easy  
*inspection and maintenance.*  
*With maximum power up to  
18 kW .*

# PERFECTION AND FLEXIBILITY OF CUT



Parallelism and absolute perpendicularity of the machine base guides, combined with a new saw carriage, always guarantee a perfect cut.

10-year warranty on blade carriage guideways and sliding rack



## 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 (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.



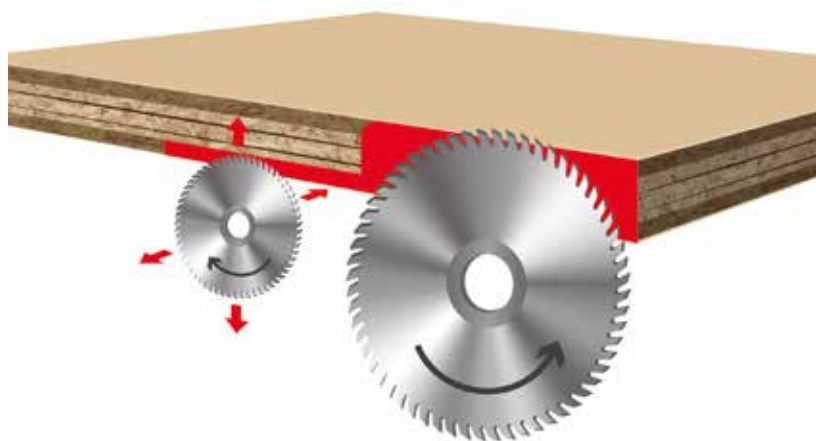
# PERFEZIONE DI TAGLIO



## CARRIAGE WITH INDEPENDENT RAISING OF MAIN BLADE AND SCORING BLADE GREAT PRECISION AND MINIMAL CONSUMPTION

The carriage is designed for maximum rigidity, and is available with these additional features (opt.):

- optimized blade stroke
- post-forming
- groove execution
- cuts-out "windows"
- execution of panels de-tensioning cuts
- blade lubrication
- toothed belt transmission
- carrolama motor powers up to 18 kW



## 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. (opt.)



**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 minimizes the standby times for blade changeovers.



**CARRIAGE WITH INDEPENDENT RAISING OF MAGNETIC BAND: A PRECISE CUT IS ALWAYS GUARANTEED**

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

10-year warranty on pusher guide device



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

The drive by rack system ensures a smooth and precise movement without necessity of maintenance.



**SAW CARRIAGE: GREAT RELIABILITY**

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

10-year warranty on blade carriage guideways and sliding rack

# MAXIMUM PROCESSING VERSATILITY

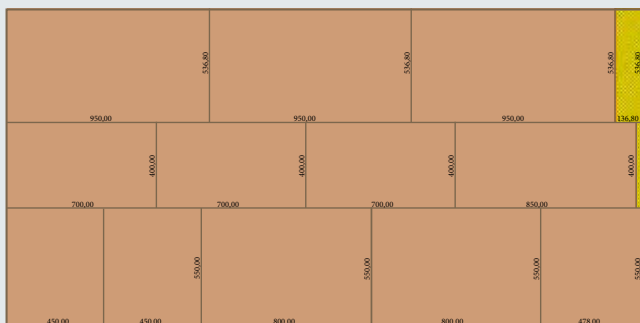


INCREASING OF PRODUCTIVITY UP TO 30% AND SPACE SAVING THANKS TO THE SIMULTANEOUS EXECUTION OF BOTH RIP AND CROSS CUTS.

## FLEXCUT 1: INCOMPARABLE PRECISION

The use of brushless motors sliding on linear guideway 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 (opt.)



*From concept*



*to productionv*



#### **INVERTER: NO COMPROMISE**

The possibility to adjust the main blade speed allows a perfect finish with any panel stack height.



#### **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 (opt.).



#### **COOLING AND LUBRICATION OF THE MAIN BLADE**

Air-oil mixture sprayed directly on the main blade to reduce friction when cutting and obtaining maximum result on the executed cut (as an option with non-wood materials).

# MAXIMUM PROCESSING VERSATILITY



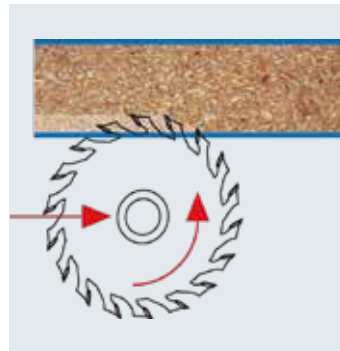
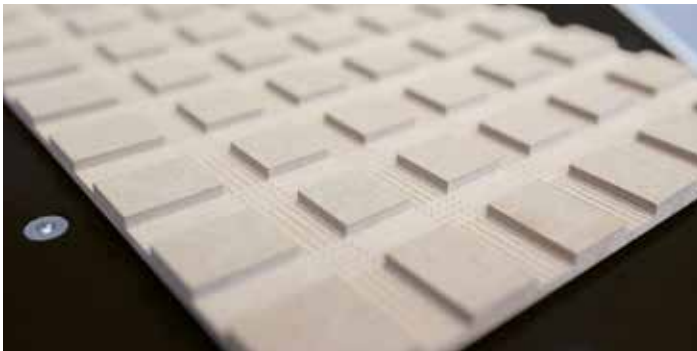
## POSTFORMING

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



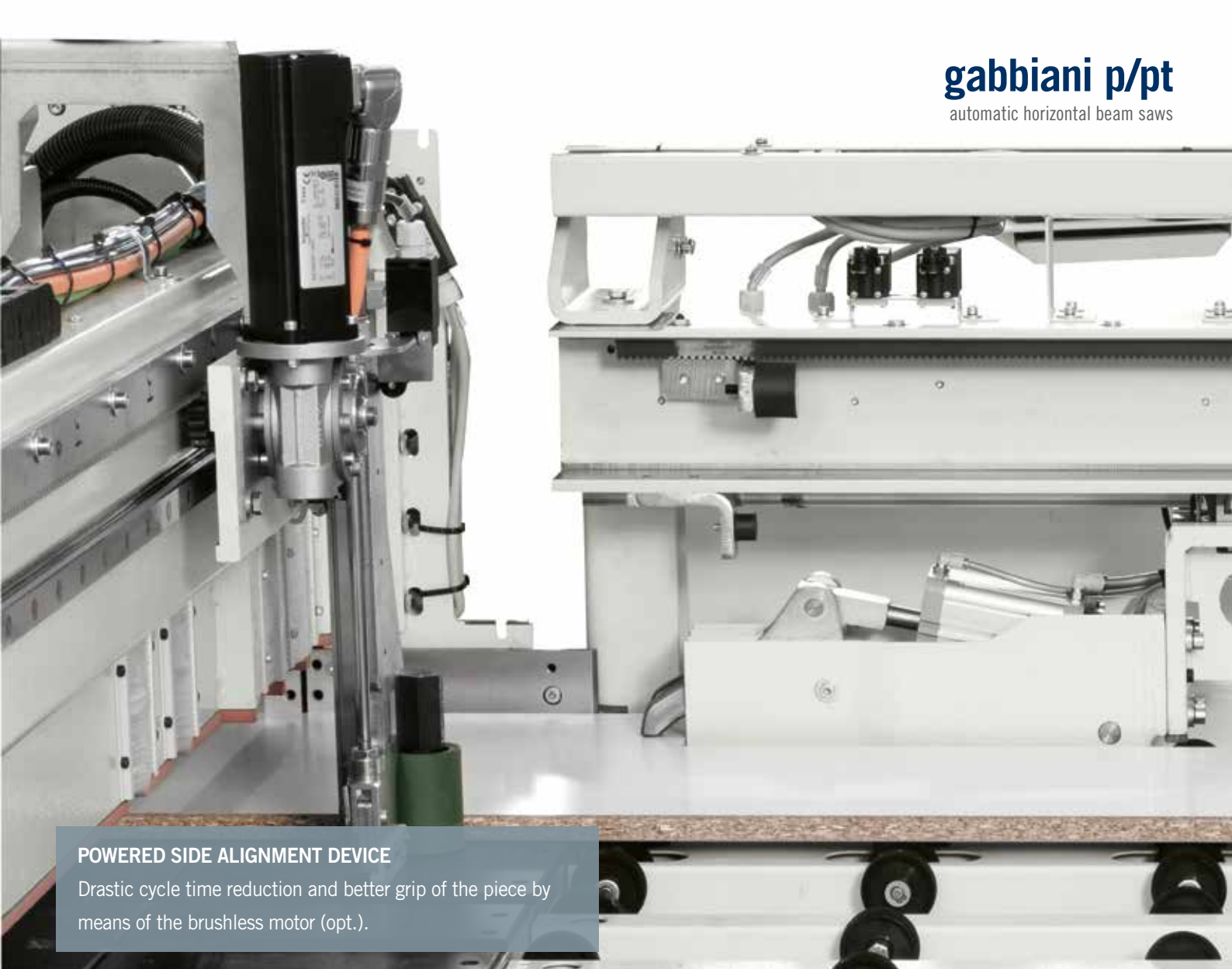
## SLOTS EXECUTION DEVICE: AT THE OPERATOR'S SERVICE

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



## GROOVING EXECUTION

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



#### **POWERED SIDE ALIGNMENT DEVICE**

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

# PRODUCTION GUIDANCE ON THE MACHINE FRONT



## LED BAR ON THE FRONT OF THE MACHINE: WORK PROCESS ASSISTANCE

which indicates:

- the area where the panel is to be loaded
- the position from which the material will arrive, when the panel arrives from the lift table
- in case of side-by-side strips, indicates the width of both shapes
- in case of overlapping strips, it indicates the overlap (opt. on p60, p80, pt80)



**LED BAR FOR MOVABLE AIR FLOATING TABLES:  
GUIDED POSITIONING**

Intelligent led system that indicates the correct positioning of the movable air floating tables with respect to the format of the panels to be processed by the machine (opt.)



# PRODUCTION GUIDANCE ON THE LOADING PLATFORM



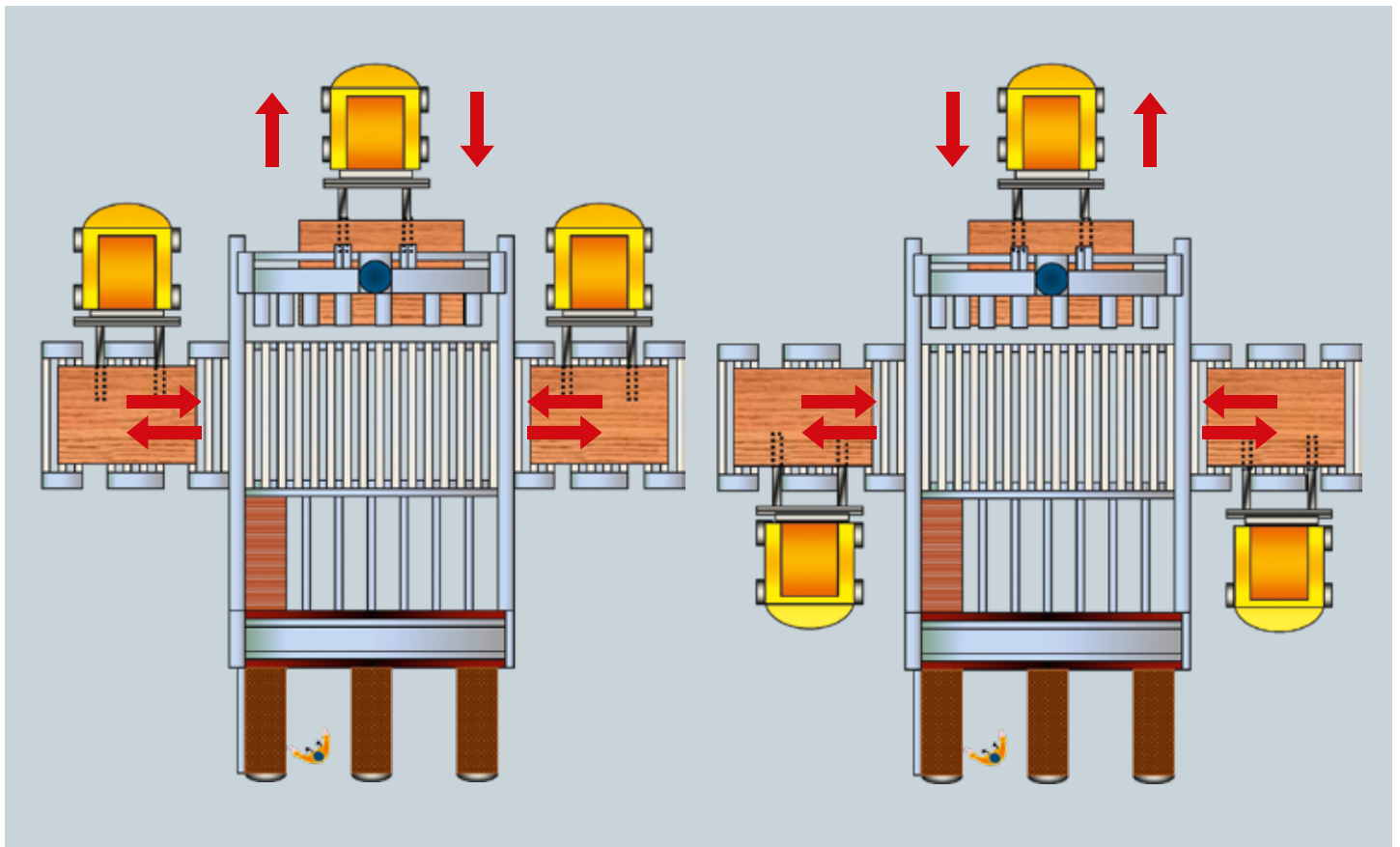
## LED BAR ON LIFTING TABLE GUIDED STACK LOADING

which highlights:

- the position where the stack is to be deposited and the size
- request for stack change (opt. on pt80)

## OPTIMIZED 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.





#### **ALWAYS PARALLEL LIFTING OF THE PANELS STACKS**

The lifting system running on 4 large trapezoidal screws (fig. 1) 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. 1)

# SMALL DETAILS THAT DISTINGUISH



## ANGULAR CUTTING DEVICE

The device provides for tilting of the squaring guide by handwheel and automatic elevation positioning of the panel by a linear stop positioned on the main pusher.





Quick access for cleaning and maintenance

#### **ADDITIONAL TABLE: SORTING AREA**

It ensures the creation of stable stacks without slowing down the sectioning process and facilitates labeling operations (opt.)



# OPTIONAL DEVICES

## ADDITIONAL CLAMPS



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



Clamps with manual handling for melamine-faced panels with edges protruding (opt.)



## 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).



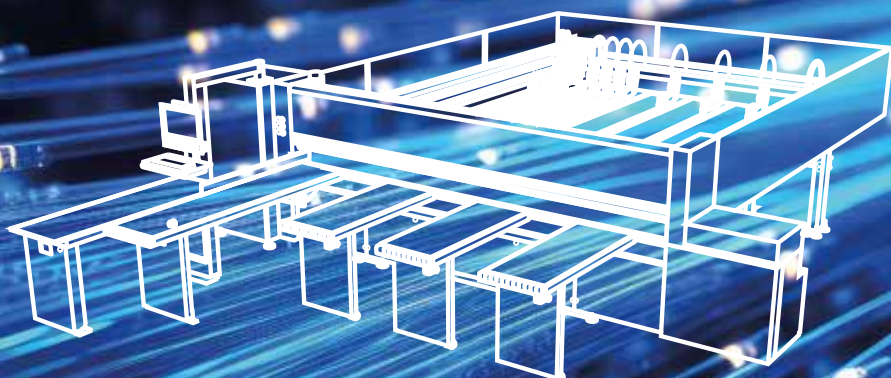
## EASYSTORE

A simple solution that makes a project big.

### **“HIGH SPEED” DEVICE: ABSOLUTE SPEED**

Excellent cutting quality in reduced execution time:

- axes speed up to 120 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.



#### **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.

# TAILOR-MADE SOLUTIONS



## **FLEXSTORE ELR STORAGE FULLY INTEGRATED IN THE BEAM SAWS: OPTIMISING HAS NEVER BEEN SO EASY**

flexstore elr 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 elr 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.

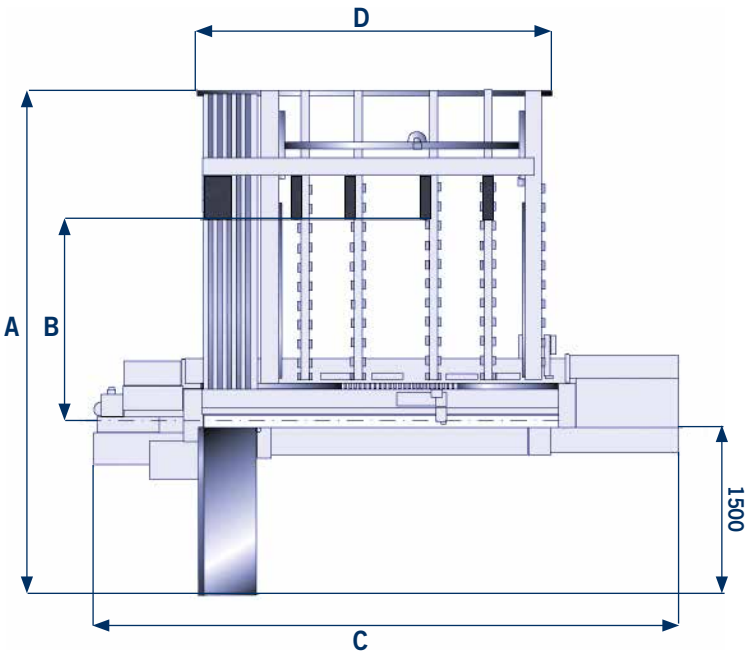
Ensure:

- 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

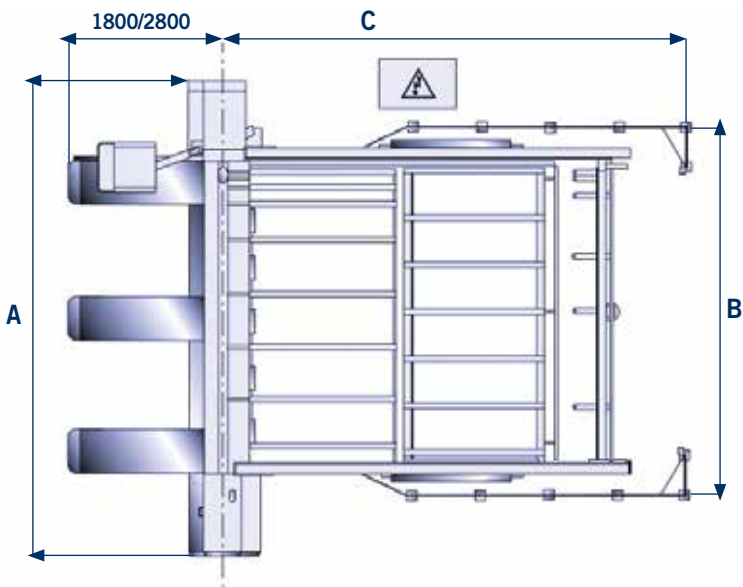
**SECURE AND PRECISE PANELS TRANSFER.**

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

# OVERALL DIMENSIONS



gabbiani p				
cutting dimensions	A	B	C	D
3300 x 2100	4972	2100	5391	3680
3300 x 3200	6072	3200	5391	3680
3800 x 3200	6072	3200	5891	4180
3800 x 3800	6672	3800	5891	4180
4300 x 3200	6072	3200	6391	4680
4300 x 4300	7172	4300	6391	4680



gabbiani pt			
cutting dimensions	A	B	C
3300 x 1850	5391	4452	6530
3300 x 2200	5391	4452	7230
3800 x 1850	5891	4952	6530
3800 x 2200	5891	4952	7230
4300 x 2200	6391	5452	7230

gabbiani		p60	p80	p95
Cutting length	mm		3300 - 3800 - 4300	
Blade projection	mm	60	80	95
Saw carriage variable speed (option)	m/mm		6 - 60 (0 - 120)	
Pusher variable speed (option)	m/mm		60 (70)	
Main blade motor power (S6-40%) 50 Hz (stardelta-start) (option)	kW		7,5 (9) (11)	
Motor power with inverter (option)	kW	(11)	(11) (15)	(11) (15) (18)
Scoring unit blade motor 50 Hz	kW		1,5	
Maine blade rotating speed – 50 Hz	rpm		4650	
Scorer rotating speed – 50 Hz	rpm		5850	
Main blade diameter	mm		370	
Scorer blade diameter	mm		200	
Number of clamps	std		5	

gabbiani		pt80	pt95
Cutting lenght	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	80	95
Saw carriage variable speed	m/mm	0 - 120	
Pusher variable speed	m/mm	70	
Main blade motor (S6-40%) 50 Hz (stardelta-start) (option)	kW	7,5 (9) (11)	
Motor power with inverter (option)	kW	(11) (15)	(11) (15) (18)
Scoring unit blade motor 50 Hz	kW	1,5	
Maine blade rotating speed – 50 Hz	rpm	4650	
Scorer rotating speed – 50 Hz	rpm	5850	
Main blade diameter	mm	340	370
Scorer blade diameter	mm	200	
Number of clamps	std	5	



## 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  
= 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.*



## TELESOLVE

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

Maximum noise levels measured according to the operating conditions established by EN 1870-13:2012  
Acoustic pressure in process 83 dbA (measured according to EN ISO 11202:2010, uncertainty K = 4 dB)  
Acoustic power in process 99 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.

# M Maestro Digital Systems

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

cutting  
lists



optimized cutting  
patterns

## SOFTWARE

**Maestro** office

Office

Factory

**Maestro** active

optimized  
cutting  
patterns



cutting

**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.



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.

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.

Monitoraggio  
della macchina,  
KPI, notifiche  
istantanee

## Maestro connect A REAL MASTER OF EFFICIENCY

Tips on how to  
correctly use  
the machine

Machine  
maintenance

Report and  
historical  
data export  
to ERP

Predictive  
maintenance,  
Machine  
learning

Warranty  
extension





## SCM LINEAR CUTTING OPTIMIZATION PROGRAM

In the office **Maestro optiwise** and **Maestro pattern office** 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 optiwise** 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 optiwise** 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 optiwise

Maestro optiwise is the professional software supplied by SCM for beam saws management. The main strengths are:

- Improved user experience: The user can easily and effectively carry out all raw material optimization operations.
- Increased efficiency: Improved user-experience enables required tasks to be performed in less time, increasing productivity
- Less effort for customization: the application is designed with a modular architecture that allows it to be easily adapted to each customer's production logic.
- Faster user learning: The application is a useful and simple tool that allows users to be productive in the shortest possible time.
- Multi-machine management: The application is able to manage optimizations and create machine programs for single-blade panel saws and angular systems.



#### 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 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 editor

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



### 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.

# Maestro connect

## CONNECT YOUR MACHINE AND GAIN ACCESS TO A WORLD OF SERVICES

Connecting your machine through IoT technology 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.

## SMART MACHINE

### THE ENTIRE MACHINERY FLEET AT YOUR FINGERTIPS



- **REAL-TIME MONITORING** of the machine status, components, and performance in term of availability and efficiency.
- **INSTANT NOTIFICATIONS** on pc, tablet, and smartphone when machine alarms occur, allowing you to act timely and avoid additional equipment damages.

## SMART MAINTENANCE

### PLANNING AND MAINTENANCE: PREVENTION IS BETTER THAN... REPAIRING!



- **PLANNING:** In the Smart Maintenance section, you can find all the tools you need to plan the maintenance of the entire machinery fleet to prevent downtimes.
- **TROUBLESHOOTING:** Thanks to intuitive smart documents, Maestro connect guides the operator in the maintenance activities procedures step by step.
- **SERVICE REQUEST:** Do you need further support? Open a ticket in one click, and our experts will assist you.

#### WARRANTY EXTENSION

Is your machine still under warranty?

You will be able to activate the second year of warranty with facilitated conditions directly via Maestro connect.



## SMART ANALYTICS

### REPORT AND KPI: GET TO KNOW BETTER YOUR MACHINE



Maestro connect reports and KPIs provide an in-depth analysis of production results, enabling you to know your machine's performance in detail.

#### OEE: WHY IT'S IMPORTANT TO KNOW IT



The Overall Equipment Efficiency Indicator (OEE) allows you to monitor the three variables: **Availability, Performance and Quality**. By doing so, you'll be able to detect the lower one and act on it: the performance of your machine will be the highest ever.

# CONSOLLE EYE-M

**gabbiani p/pt**  
automatic horizontal beam saws







Option





SCM OFFERS A FULL RANGE OF **HIGHLY SPECIALISED SERVICES** WITH A QUALITY AND RELIABILITY THAT STEM FROM 70 YEARS OF EXPERIENCE IN THE INDUSTRY.

From installation and production start-up to services and maintenance. From training to the supply of specific original spare parts: **we provide solutions designed around you!**

 <p><b>SERVICE AND MAINTENANCE</b></p> <ul style="list-style-type: none"> <li>• Remote support</li> <li>• Scheduled maintenance contracts</li> <li>• Warranty extension</li> </ul>	 <p><b>TRAINING SERVICE</b></p> <ul style="list-style-type: none"> <li>• Courses for machine operators</li> <li>• Software and programming courses</li> <li>• Training in production start-up</li> </ul>
 <p><b>SPARE PARTS</b></p> <ul style="list-style-type: none"> <li>• Recommended spare parts list</li> <li>• E-shop</li> <li>• Interactive spare-parts catalogues</li> <li>• Repairs on electronic parts, glue tanks and electro-spindles</li> </ul>	 <p><b>DIGITAL SERVICES</b></p> <ul style="list-style-type: none"> <li>• Maestro Connect - IoT platform to be constantly connected with your machines</li> <li>• Smartech - assistance with augmented reality</li> <li>• My Scm portal - opening of service ticket and single point of access to the apps and Services tools</li> </ul>

#### CONTACT

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www.scmwood.com

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tel. +39 0541 674111  
spareparts@scmgroup.com  
www.scmwood.com

My Scm



# SOLUTIONS AND SERVICES ALWAYS CONNECTED FOR YOU

SCM, A STRATEGIC PARTNER, BY YOUR SIDE AT EACH STAGE OF YOUR BUSINESS PROCESS

SCM has always stood alongside companies in the woodworking sector, with **technological solutions and services which are constantly connected to maximise the machine's efficiency, improve product quality and reduce operating costs.**

70+ 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

## SCM GROUP, THE MOST ADVANCED SKILLS AND KNOW-HOW IN THE FIELDS OF MACHINERY AND INDUSTRIAL COMPONENTS OVER THE LAST 70 YEARS

### INDUSTRIAL MACHINERY

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



Woodworking  
technology



Composite,  
aluminium, plastic,  
glass, stone, metal  
technology



Technologies for the  
profiles processing of  
aluminium, PVC and  
light alloy



Automated  
systems for  
industry

### INDUSTRIAL COMPONENTS

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



Electrospindles  
and technological  
components



Electrical  
panels



Metalworking  
and mechanical  
machining



Iron castings



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