

wide belt sanders

# dmc eurosystem

modular centres with flexible abrasives for calibrating and sanding



REV. N.01 - 11.2022



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00L0365650A





# DMC EUROSYSYTEM



**THE MACHINE THAT FITS  
TO YOUR NEEDS**



## SOLID



**Sturdy** main frame for high production capabilities.

Up to 18,5 kW power for **high stock removal calibrating**.

## MADE IN ITALY



**100% made in Italy**  
**Over 70 years' experience** in innovating and manufacturing woodworking machines guarantees **top reliability and quality standards**.

## RELIABLE



Technical and design features ensure a correct functioning and a **long-lasting reliability**.

## MODULAR



The wide belt sander is featured with modular devices that allow **for very large number of configurations**, from the most versatile and flexible to the most specialized one by type of application .

## LEAN



The design, the concept and the general principles for the machine project are inspired by **lean production** to grant the customer a maximized result.

## TECHNOLOGICAL



dmc eurosystem, with its **advanced technologies**, offers the market **diversified calibrating and sanding solutions**.

This leads it to position itself on a par with machines of a higher category, but appealing at a wider audience.

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MACHINE CONTROL

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TECHNICAL DATA

# TECHNOLOGICAL FEATURES

TECHNOLOGICAL ADVANTAGES

**dmc eurosystem**

modular centres with flexible abrasives for calibrating and sanding



**Planetary Unit:**  
multi-directional sanding for maximum finishing.

**Large diameter sanding roller**  
(up to 320 mm).



**Superfinishing Unit** with 2620 mm belt length.



**Available versions**  
It is available in three versions, with two or three main operating units with 1350 mm working width. Excellent finishing results are obtained when machining raw and painted panels thanks to the wide range of units such as: Cross-Belt, Calibrating Roller, Sanding Roller, Superfinishing, Planetary and GSI-200 Brush.



**GSI-200 Brushing Unit**  
for top machining versatility.



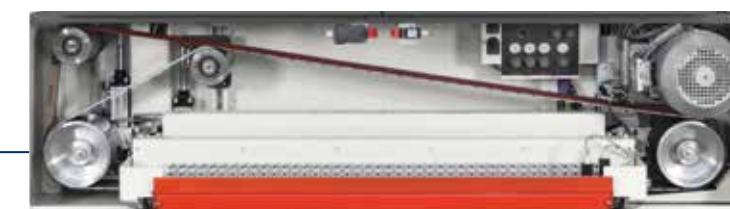
**"Epics" sectioned pad:**  
top precision in any machining operation.



**Total machine management**  
with Maestro prosand electronic control.

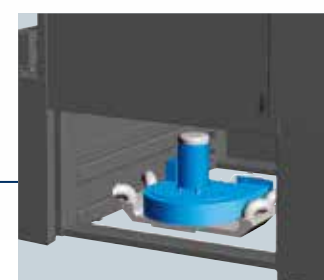


**Maximum safety** with the front and the two rear emergency stop pushbuttons.



**Internal and external cross-belt units.**

**Working table with wide opening**  
from 4 to 170 mm, for substantial working thickness processing.



**Integrated electro-fan,**  
reduced overall dimensions and noise emissions with the fan positioned under the work table.



**Natural rubber vacuum table with diamond shaped belt:**  
the best piece traction and the maximum stability.



# THE DMC EUROSISTEM MODULAR SYSTEM

**MACHINE COMPOSITIONS ALWAYS ALIGNED TO THE CHANGING PRODUCTION NEEDS**

Advanced technical solutions and modular component design allow to build a very large number of different configurations, from the most versatile and flexible machine to the most specialized one for unique applications.

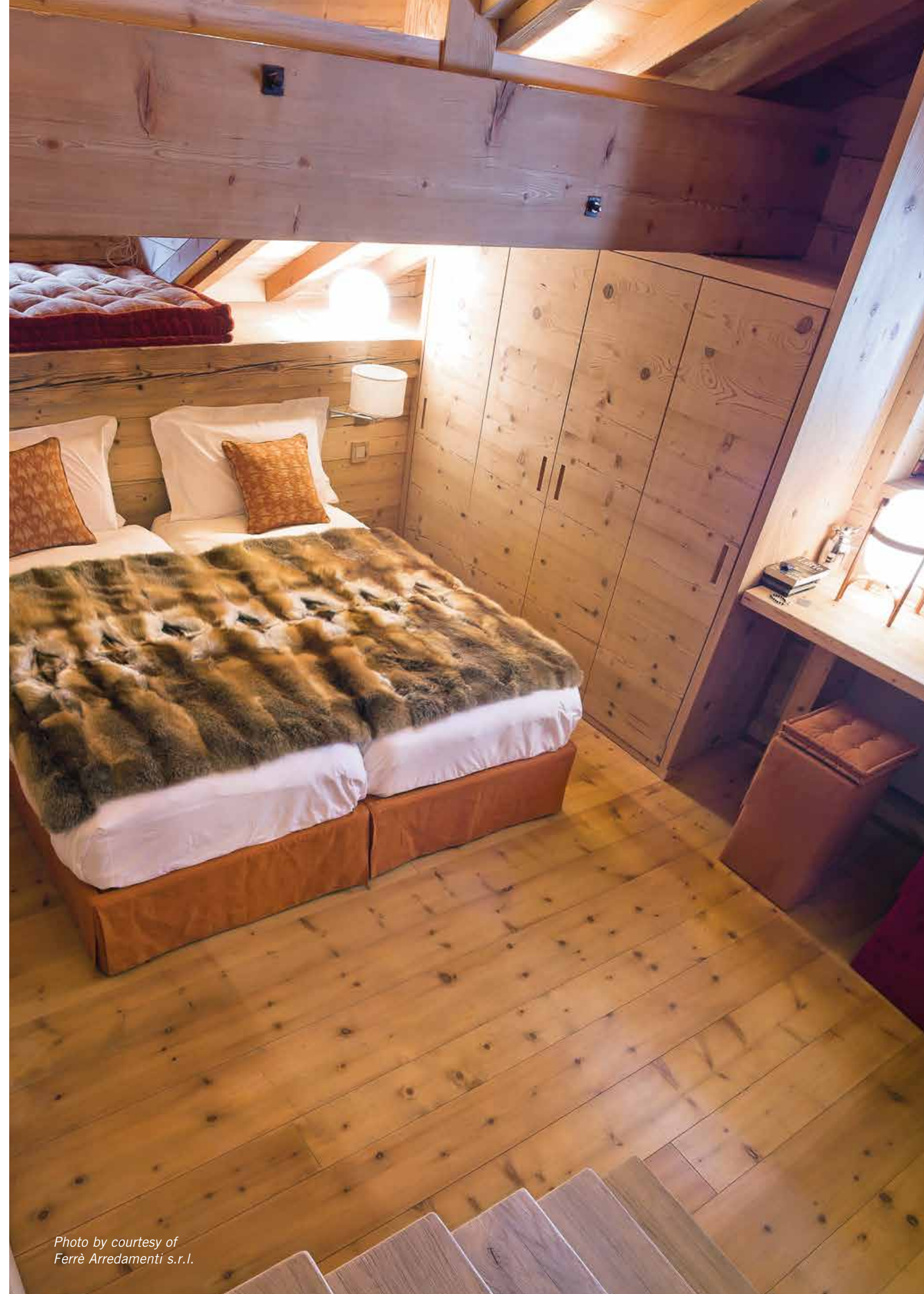
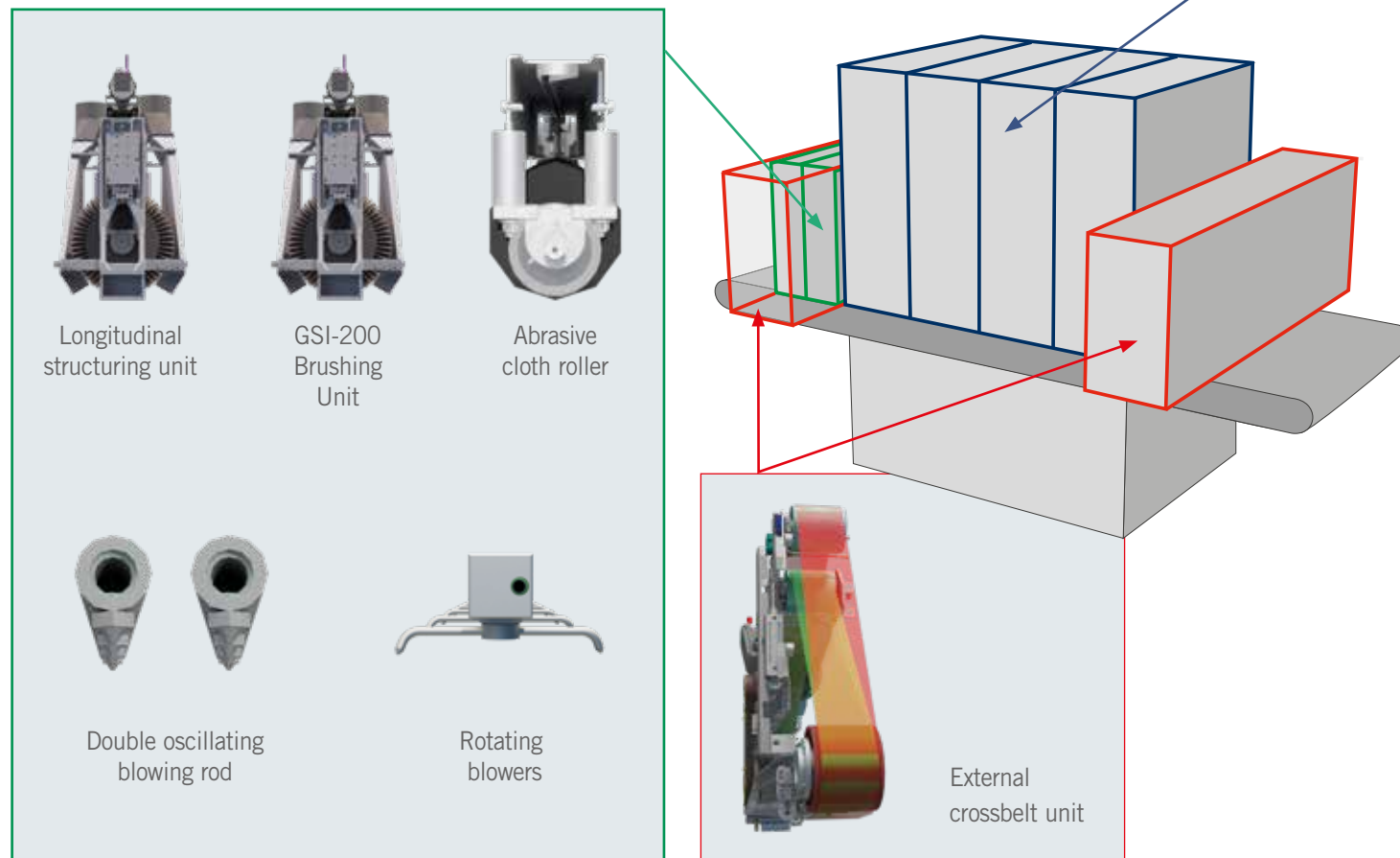
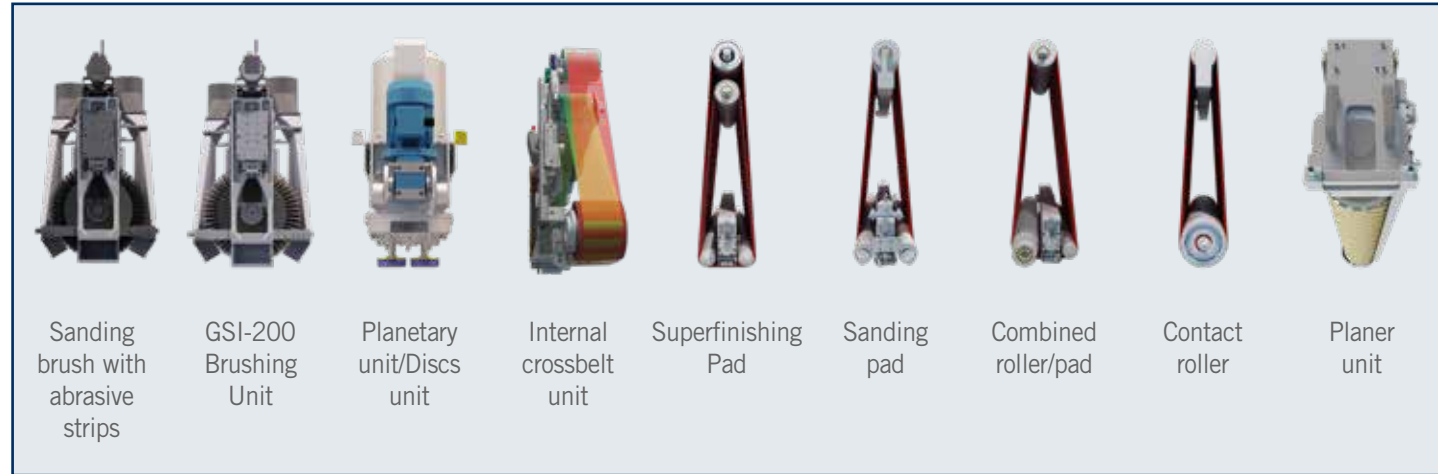


Photo by courtesy of Ferrè Arredamenti s.r.l.



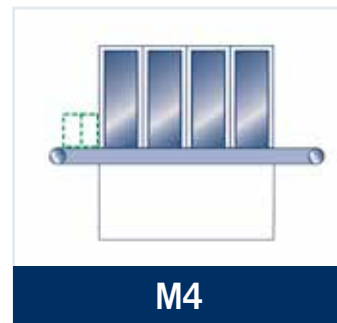
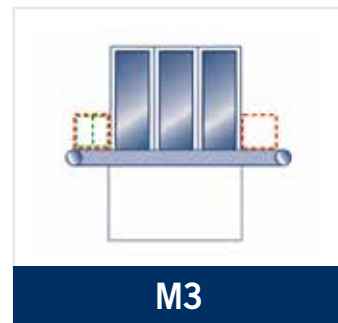
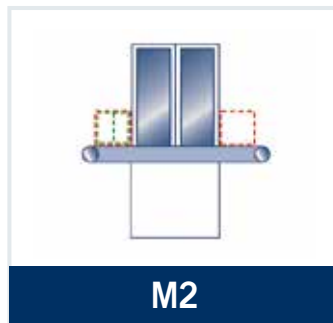
# OPERATING UNITS

## MAIN CONFIGURATIONS

### RK CONFIGURATION



### RRS CONFIGURATION

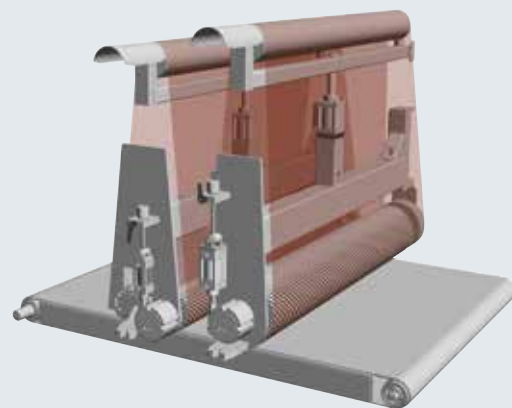


### RK CONFIGURATION

Configuration for any calibrating and sanding operations

A multifunction configuration allowing to obtain, with a limited investment, **maximum versatility in order to meet calibration requirements, solid wood, veneered and painted panels sanding.**

In fact, it is possible to calibrate pieces with the grooved steel roller in the first position and to complete the process with the sanding roller and the electronic pad of the combined unit.



### RRR CONFIGURATION

Configuration suitable for all calibration and sanding operations of solid wood and allow core doors.

The three-rollers configuration is **perfect for all calibrating and sanding operations of solid wood and hollow core doors.** Rollers of increasing diameter and different hardness allow for the correct stock removal required to achieve an optimum finish.



### RRS CONFIGURATION

Configuration for calibrating and sanding of veneered panels

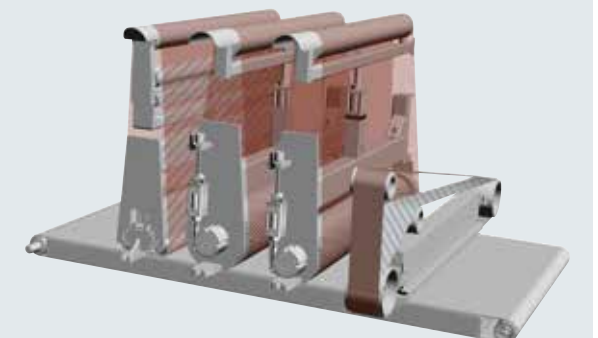
This configuration (Calibrating Roller, Sanding Roller and Superfinisher), depending on the hardness of the rollers, is **suitable for calibrating and sanding solid wood panel, veneer panel and primer.** The first two rollers carry out calibrating and pre-sanding action to remove any glue residues; while the Superfinishing unit carries out the final sanding of the panel to prepare it to the base coat or for the application of the finishing "coat".



### TRRS CONFIGURATION

Configuration for calibrating, sanding and superfinishing of raw and painted panels

Excellent finishing results are obtained when machining raw and painted panels thanks to the wide range of units that come with the dmc eurosystem TRRS (Cross-Belt, Calibrating Roller, Sanding Roller, Super-Finisher), and to its prescribed approach: a **perfect combination of aggressive roller with sensitive EPICS electronic sectioned pad.**





# OPERATING UNITS

## MAIN CONFIGURATIONS

### RRSD CONFIGURATION

Configuration for basecoat sanding, structuring and panel superfinishing

The machine is equipped with a steel roller, a 65 sh rubber roller, a Superfinishing unit for veneered panels and basecoat sanding, and a planetary unit to **perform** several processes including: **pore opening**, solid wood **structuring**, **edge-rounding** and surface **superfinishing**. Finally, there is **the interchangeable GSI-200 brushing unit which**, in synergy with the planetary unit, helps to perfect the previous processes.

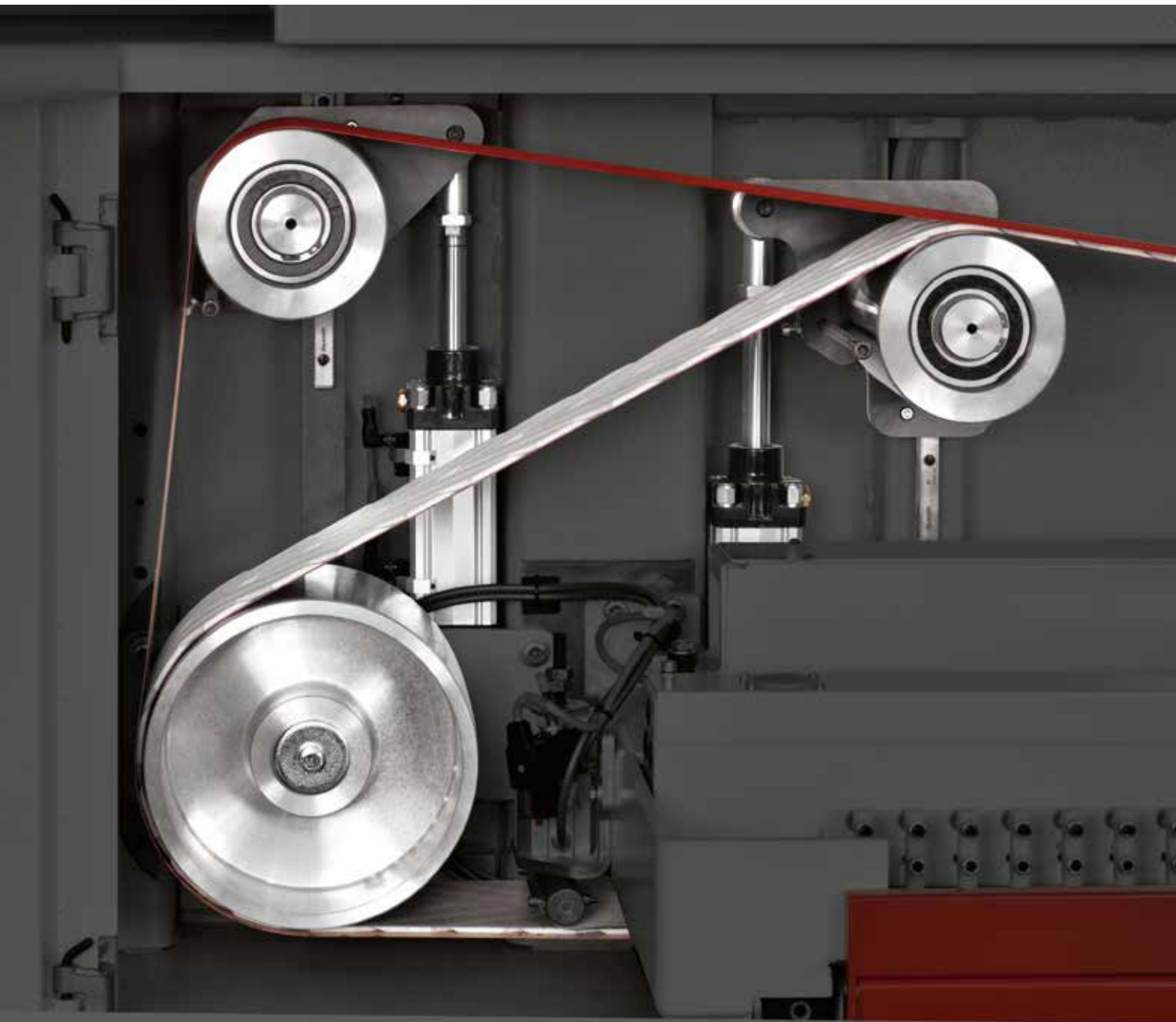


# OPERATING UNITS

## CROSSBELT UNIT

### CROSSBELT UNIT: AN EXCEPTIONAL FINISH IN SYNERGY WITH THE SANDING OF ROLLER UNIT OR SUPERFINISHING UNIT

The crossbelt sanding unit can be used as a **setup unit for a following sanding operation**, such as adhesive paper or filler removal, or as a final unit for the sanding of painted surfaces that require a high-quality finishing (polished or opaque effects).



The unit can be set both internally and infeeding ,outfeeding the longitudinal units.

Thanks to its positioning, inside and outside the machine structure, all the activities concerning abrasive belt replacement and routine maintenance operations are simple and fast.



# OPERATING UNITS

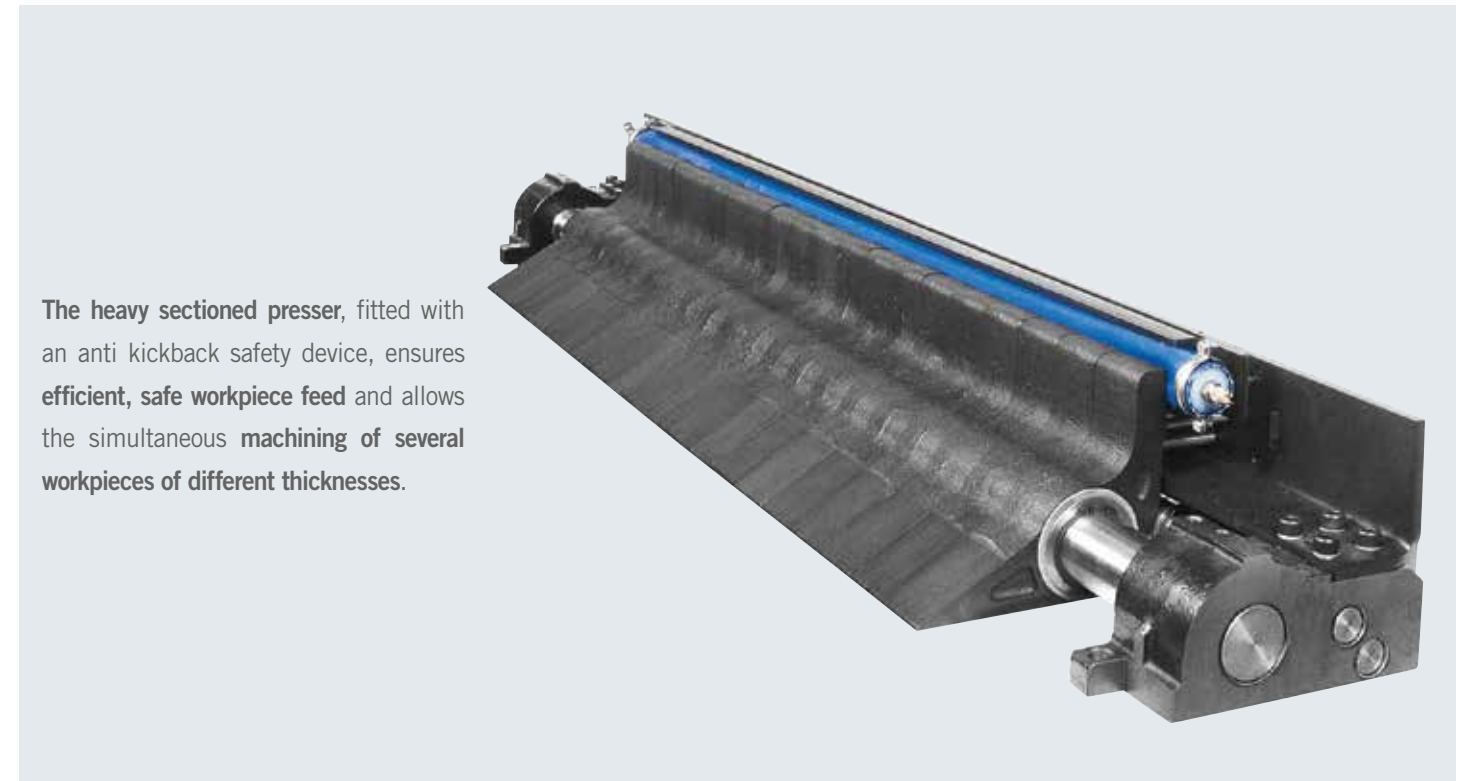
## PLANER UNIT



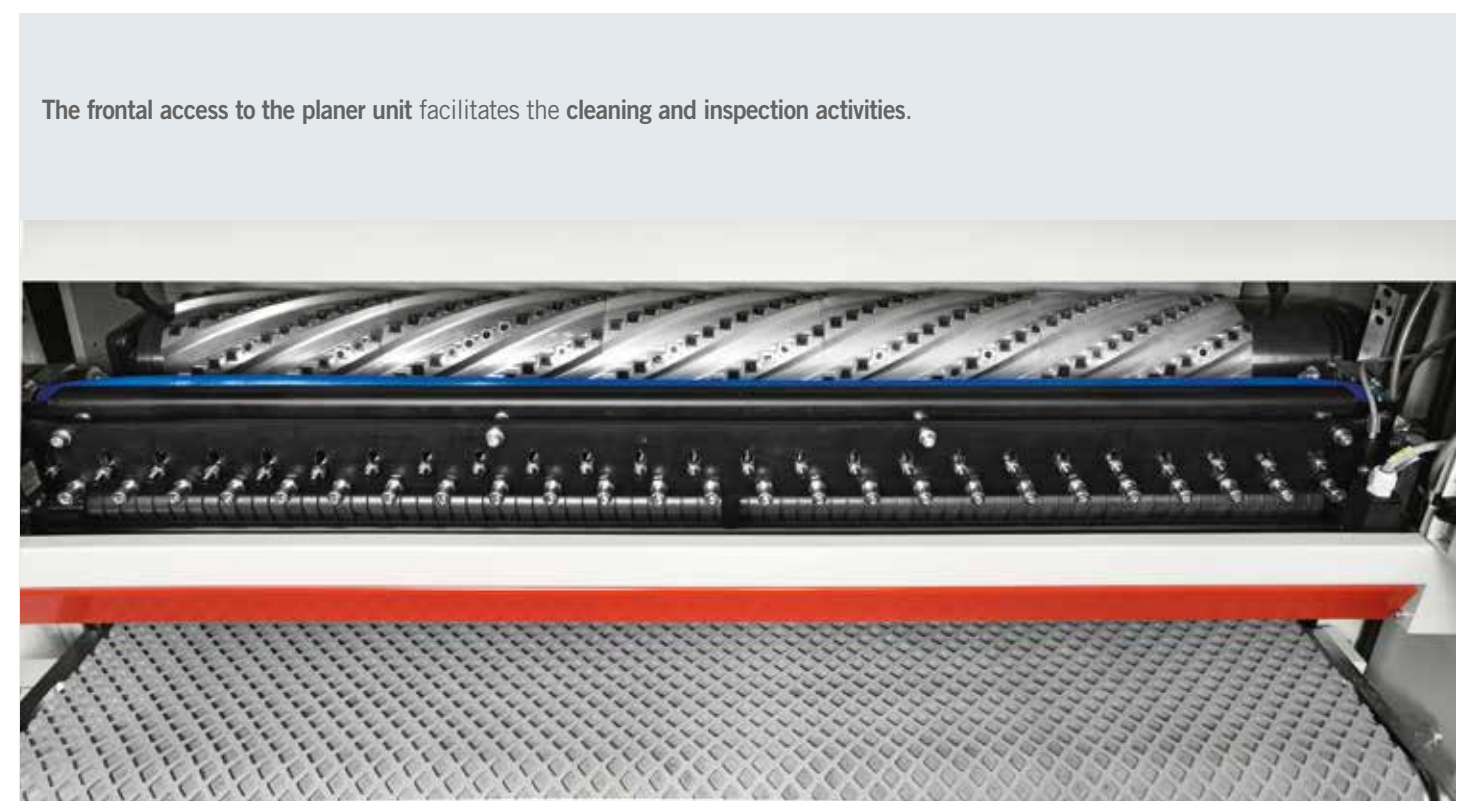
### PLANER UNIT

The machine can be equipped with the "CHP" planer unit which enables **high stock removal rates on solid wood** with relatively low power motors (25 to 30 HP).

After planing, **panels only require light finishing**, that can be achieved with 150 grain using a single operating unit, or 180 grain using two operating units.



The heavy sectioned presser, fitted with an anti kickback safety device, ensures **efficient, safe workpiece feed** and allows the simultaneous **machining of several workpieces of different thicknesses**.



The frontal access to the planer unit facilitates the **cleaning and inspection activities**.



# OPERATING UNITS

## CALIBRATING/SANDING ROLLERS

### CALIBRATING/SANDING ROLLER UNIT

The calibrating-sanding rollers are available in grooved-steel or rubber-coated versions with 250 and 320 mm diameter.



#### RUBBER-COATED ROLLER

The wide range of hardness available (from 85 to 20 Shore) ensure excellent results on any type of operation, from calibrating with high rates of stock removal to the finishing of veneered and painted panels.

#### GROOVED STEEL ROLLER

It delivers maximum precision when calibrating solid wood, even when the wood is knotty or has an irregular grain.

The calibrating/sanding rollers are equipped with an automatic belt tensioning system which allows to keep constant at the correct tension the belt and ensures the maximum efficiency of the power transmission. This device is essential during the calibrating operations to transfer all the available power during processing.





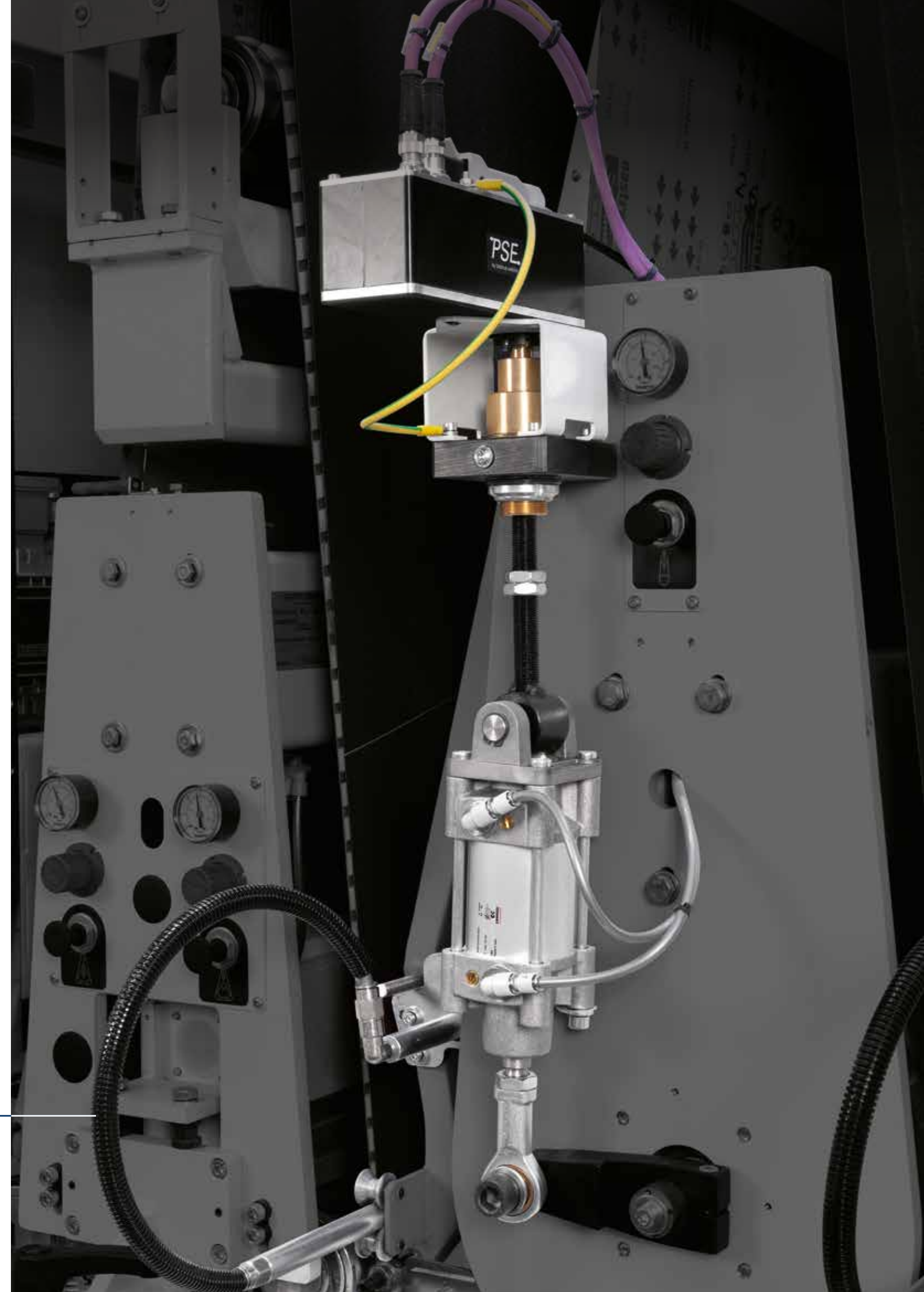
# OPERATING UNITS

## CALIBRATING/SANDING ROLLERS

### ELECTRONIC GRIT SET

Powered adjustment of working units through brushless motors able to ensure accurate and quick positioning of the operating units over time.

The actual thickness of the abrasive belt can be programmed in the control panel, in order to adjust the belt wearing out or being in need of replacement, to always keep a steady working load on the surface of the material to be processed.



# OPERATING UNITS

## COMBINED KOMBY UNIT

### COMBINED ROLLER-PAD UNIT

This is the perfect choice for woodworking companies who want a very versatile machine configuration, without making any compromise on machining quality. The "K" unit can be fitted with all the technical features available for the roller or pad units.





# OPERATING UNITS

## SUPERFINISHING UNIT

The superfinishing unit is particularly suitable for the superfinishing of solid wood components, MDF panels that have to be laminated, veneered or painted (opaque and polished).

It is the ideal choice for all companies that require the highest finishing level on “hi-gloss” panels.



The superfinishing unit is fitted with the “EPICS” electronic sectioned pad, ensuring an extremely uniform action of the abrasive grains on the workpiece surface, and the chevron belt improving cooling of the contact area.

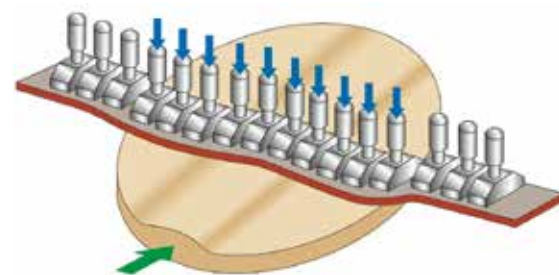
Longer belts (2620 mm length) improve the cooling of the abrasive grains and reduce the adherence of processing dust. An extended belt length lasts longer, requires fewer replacements and consequently less downtimes.



# “EPICS” SECTIONED PAD

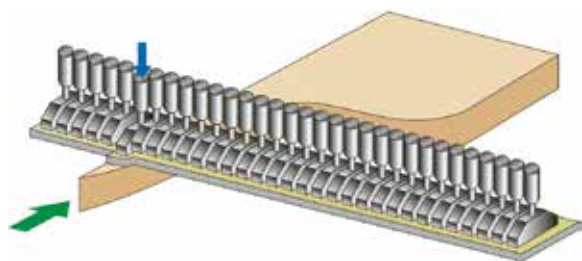


The “EPICS” sectioned pad consists of a special monolithic beam which houses the cylinders that activate the independent sectors. Thanks to the wide excursion of the pistons and the double action system (adjustable pneumatic push/counter push), the “EPICS” pad guarantees maximum sensitivity and precision in any type of machining.



The unique structure of the pneumatic cylinders allows the “EPICS” pad to perfectly sand panels with uneven surfaces.

The “EPICS” pad is available with two different centre-to-centre distances of the sectors: 32 mm and 16 mm. The latter is particularly indicated for treating narrow or shaped workpieces with very tight angles.

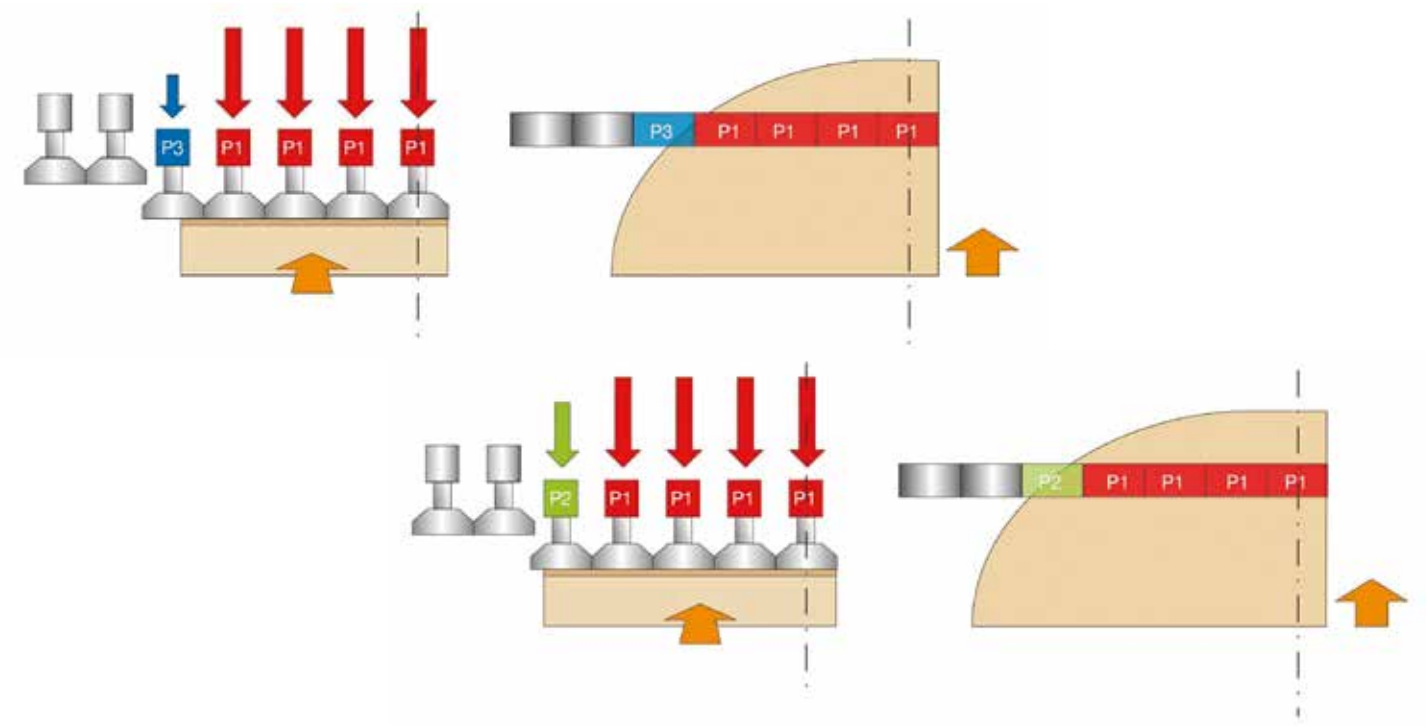


## THE INNOVATIVE “PWM” SYSTEM ALLOWS CHANGING IN REAL TIME THE OPERATING PRESSURE OF THE “EPICS” ELECTRONIC PAD, ADAPTING IT TO THE DIFFERENT PANEL AREAS INCH BY INCH.

The PWM technology allows for a reduced sanding pressure to be applied to the front edge of the panel. The pressure is progressively increased to sand the central area of the panel and then decreased once again for the rear edge.

A sophisticated workpieces reading device positioned at the conveyor infeed allows the system to manage different pressures on the side edges of the panel.

The pressure varies according to the shape and position where the workpiece has been inserted into the machine.



The “PWM” system is totally managed by the “Maestro prosand” electronic control. Thanks to the advanced operator interface developed specifically by SCM, all the device parameters can be displayed, set and saved in each work program.



# OPERATING UNITS

## PLANETARY UNIT

The planetary unit is built on a block that houses **four contra-rotating planetary heads**. Each one has four discs that rotate in the opposite direction of the planetary head.

The **side oscillation** is added to these movements in order to obtain a **multi-directional sanding for maximum finishing**.

Thanks to the fast locking system, this unit, enables to use different types of tools depending on the type of processing to be performed, i.e.



**Steel and Tynex discs** for veneered panels pore opening or solid wood panel structuring.

**Jagged abrasive discs** for edge rounding.

**Flat discs** for cross-grain sanding and flat surface finishing.



*Photo by courtesy of Ferrè Arredamenti s.r.l.*



# OPERATING UNITS

## DT 17

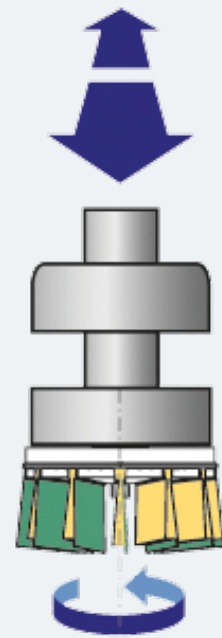
Especially suited unit for **kitchen cabinet doors edge rounding**, thanks to the side oscillating movement of the unit's supporting structure. It is fitted with 17 counter-rotating discs and allows to reach the most difficult areas of the profiled panel; thus preparing the surface to the brushing process.

The **quick-release system** for the brush discs enables quick machine set-up while, at the same time, **provides maximum reliability and safety** of the locking mechanism.



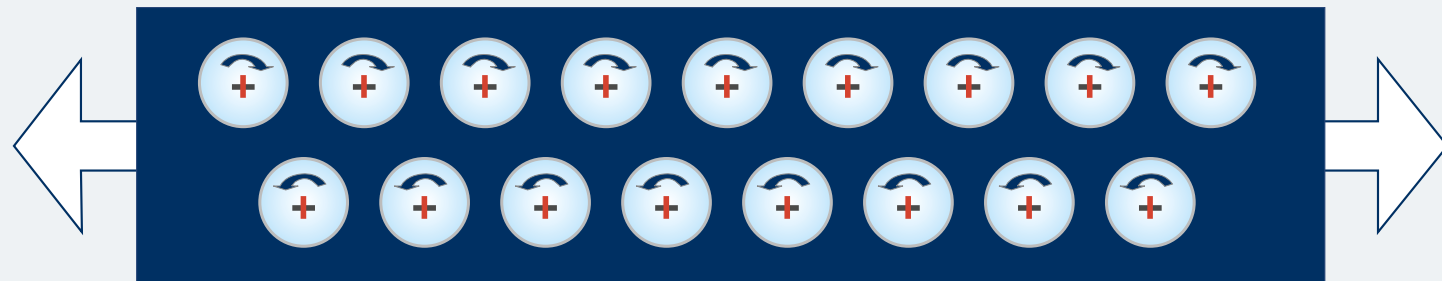
### SIMPLE AND FAST MAINTENANCE

Due to the **telescopic guides** that enable a rapid extraction of the unit.



### OSCILLATING DISCS UNIT

The unit is featured with **side oscillating movement** and a **double row counter-rotating discs' structure** for greater effectiveness when rounding the edges and to reach the most inaccessible areas on the profiled panel.



Sliding movement driven by an independent motor.



Photo by courtesy of  
Ferrè Arredamenti s.r.l.



# OPERATING UNITS ON THE OUTFEED

## FIXED BUFFING AND STRUCTURING UNITS

### BUFFING AND BRUSHING UNITS

The **brushing units** are also available with roller oscillating device. Two brushing units can be **fitted together**, also **in combination with** (timed) double-rod blowing **cleaning devices** or rotary blowers.



It is available a complete range of cleaning and buffing rollers with 150 or 200 mm diameter.



### STRUCTURING UNIT

It is available with motors up to 10 HP (also with motors driven by inverter), brings out the natural texture of wood. The device is particularly **recommended to enhance the production of country style or antique-look furniture**.





# OPERATING UNITS ON THE OUTFEED

## GSI-200 BRUSHING UNIT

### GIVE SHAPE TO YOUR PROCESSING WITH THE GSI-200 BRUSHING UNIT:

MANY APPLICATIONS, ONE SYSTEM

The **GSI-200** interchangeable brushing unit has been **designed to meet the flexibility and production versatility needs** of small and medium sized manufacturers. The unit, thanks to the oscillation system and the tools diameter of 200 mm, can use: grain evidencing steel or tynex rollers, sanding rollers with abrasive strips for brushing, Scotch-Brite abrasive cloth rollers for the finish on paint, or cleaning rollers.

The machine can be equipped with two GSI-200 brushing units on the outfeed.

Tool changeover takes a maximum of five minutes for unskilled operators.



Up to 7KW motor power driven by inverter for heavy structuring operations.

### INTERCHANGEABLE RANGE OF MACHINING AND FINISHING OPERATIONS

With the tools available any machining operation can be carried out, from structuring with steel tools, to brushing with abrasive belts, up to sanding of painted panels with Scotch-Brite abrasive cloth rollers.





# OTHER DEVICES



## DIGITAL READ-OUT:

the device detects the working height of the roller and makes the reading of the value immediate and precise.



## LENGTHENED STEEL TIPS SCREWED TO THE BAR:

for the best workpiece traction under the working unit.

## HIGH PERFORMANCE TRANSMISSION SYSTEM:

the "POLI-V" belt ensures an extremely powerful, efficient and silent transmission; in addition, the automatic belt tensioning system guarantees that the tension remains constant over time.



## FAST LOCKING SYSTEM

The fast locking system that secures the units to the base and the digital read-out of the working height make the sanding belt replacement and the machine set-up operations extremely fast and precise.



## HIGH-EFFICIENCY DUST SUCTION HOODS:

expressly studied and designed by SCM engineers, allowing to control the dispersion of the dust even in the heaviest working conditions, thanks to their particular shape and position, very close to the working area.

## TIMED OSCILLATING BLOWER FOR ABRASIVE BELTS CLEANING

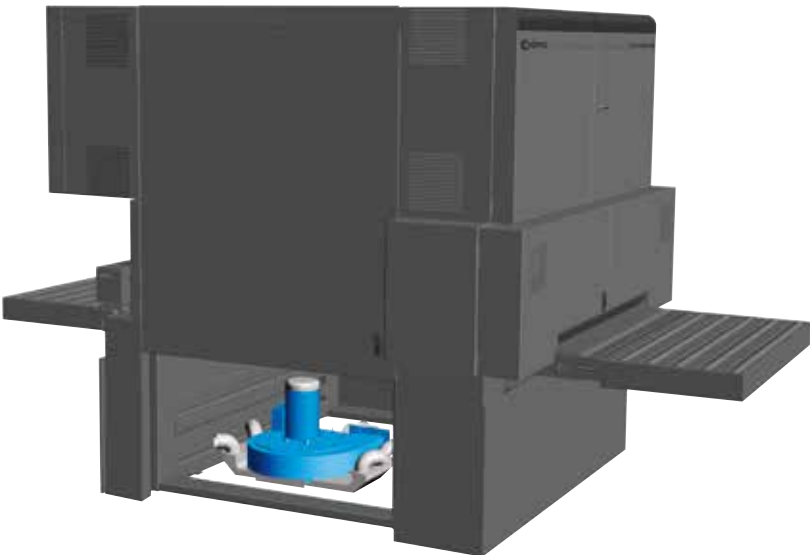
Efficient abrasive belt cleaning increases belt life and improves finishing quality, especially on painted panels. The device is automatically activated as the piece passes through the machine, in order to save the compressed air consumption.



# OTHER DEVICES

**INTEGRATED ELECTRO-FAN, GIVING EXTREME COMPACTNESS**

The **electro-fan** positioned under the worktable reduces the space occupied by the machine and, most importantly, reduces noise emissions.



**AUTOMATIC BELT CENTERING SYSTEM**

The centering system of the abrasive belt is managed by a very **reliable and precise “background suppression” photocell** ensuring the correct positioning of the abrasive belt.



**AUTOMATIC FEED BELT CENTERING SYSTEM**

The electro-pneumatic system keeps the feed belt in the best conditions of use at all times **without any operator’s intervention.**



**WIRELESS ELECTRONIC GAUGE**

The wireless electronic gauge allows the machine to be positioned at the work thickness measured by the device. The communication with the machine is wireless and the working program can also be launched from the remote control.

**AUTOMATIC TABLE POSITIONING**

The automatic table positioning detects the work piece thickness and allows precise machining at all times and without the risk of operator’s error. The decimal setting of this system also allows setting the work depth independently of the material thickness.



**LED INDICATOR FOR PANEL INTRODUCTION**

Simple and intuitive, communicating to the operator where and when the panel has to be introduced into the machine and optimising the standard wear of the sanding belt; this ensures a better quality finish and reduced machine costs.





### EYE-S CONTROL PANEL: EASILY AVOIDING MISTAKES

Simple and intuitive control panel with 15" touch-screen and **Maestro active HMI**, to improve wide belt sander experience.

It allows the machine to be managed in manual mode or with working programs that can be configured by the operator.

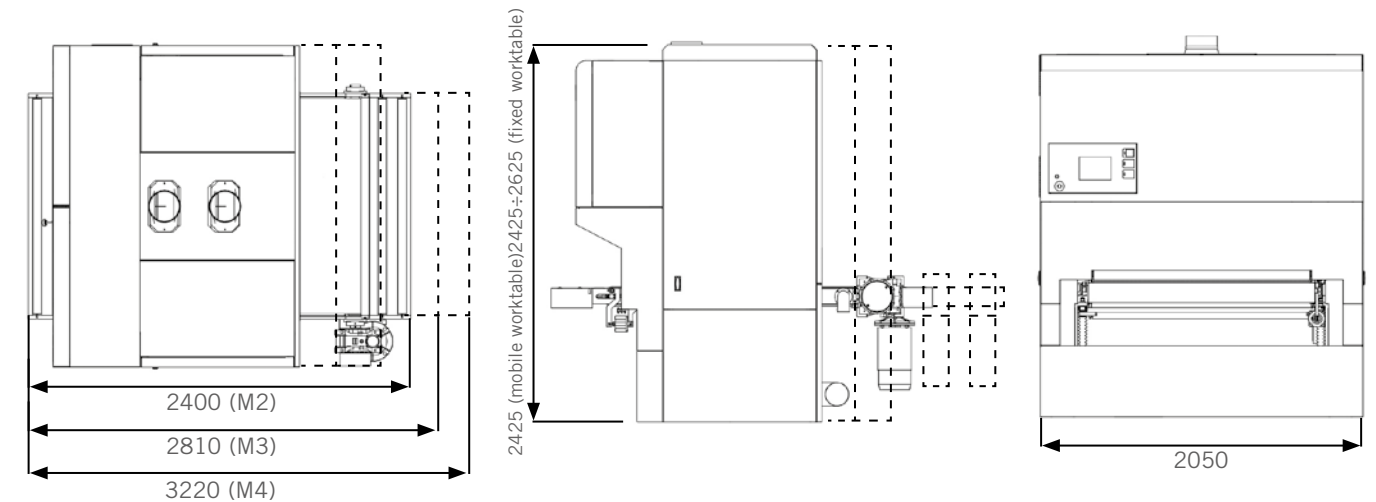
"eye-S" includes **new features enabling proper management and costs reduction** of the abrasive tools. The possibility to store **up to 999 work programs** to recall the most frequently used machine settings makes it **ideal even for less experienced users**.



### EYE-M CONTROL PANEL WITH MAESTRO PROSAND ELECTRONIC CONTROL

The "**Maestro prosand**" control allows you to set all the machining parameters from the "eye-M" console with 21,5" touch screen and **to check the correct operation** of the machine in real time. The powerful industrial PC with an **extremely simple and reliable user interface** can perfectly meet the requirements of even the most demanding operators (opt.).

### MACHINE DIMENSIONS



\* Dimensions refers to a machine configuration without the crossbelt unit

### DMC EUROSISTEM

Working width	mm	1.350
Min/max standard working thickness (mobile worktable)	mm	3-170
Min/max standard working thickness (fixed worktable)	mm	3-200
Longitudinal abrasive belts dimension	mm	1.370 x 2.620
Abrasive crossbelts dimension	mm	150 x 5.000
Mat feed speed	m/min	3-18



### POWER ONLY WHEN IT IS REQUIRED

**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.

**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.*







**scm** | service

**WE'LL GO THE EXTRA MILE FOR YOU**

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>

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# THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

**SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND**  
 70 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.

- 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

**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	INDUSTRIAL COMPONENTS
Stand-alone machines, integrated systems and services dedicated to processing a wide range of materials.	Technological components for the Group's machines and systems, for those of third-parties and the machinery industry.
 WOODWORKING TECHNOLOGIES	 TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL
	   
	SPINDLES AND TECHNOLOGICAL COMPONENTS    ELECTRIC PANELS    METALWORK    CAST IRON

