





DMC EUROSYSTEM



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



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.

40

MAESTRO SOFTWARE

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TECHNICAL DATA

TECHNOLOGICAL FEATURES

TECHNOLOGICAL ADVANTAGES



Planetary Unit: multi-directional sanding for maximum finishing.



Superfinishing Unit with 2620 mm belt length.



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







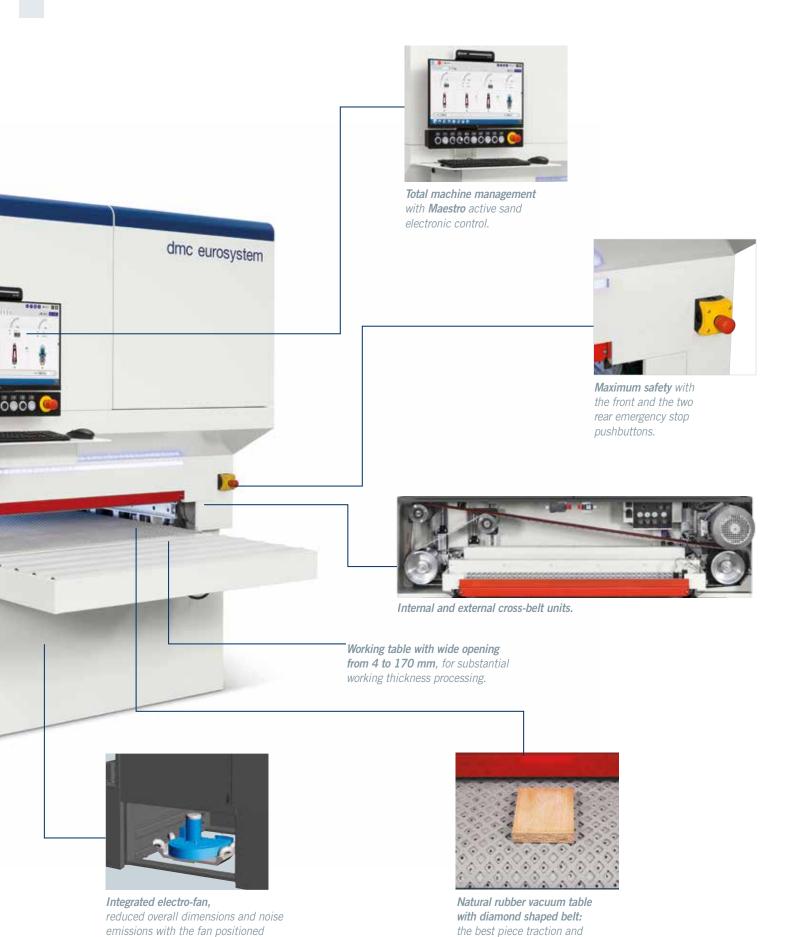
Available versions

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.



Uscm

GSI-200 Brushing Unit for top machining versatility.



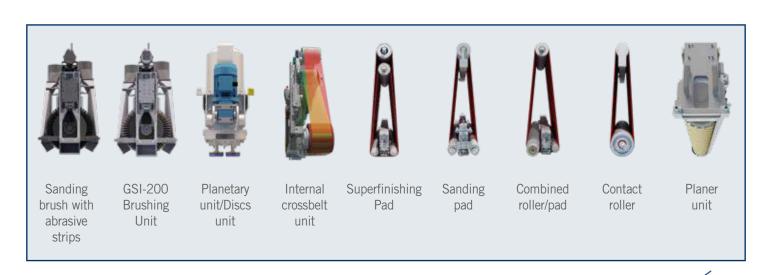
the maximum stability.

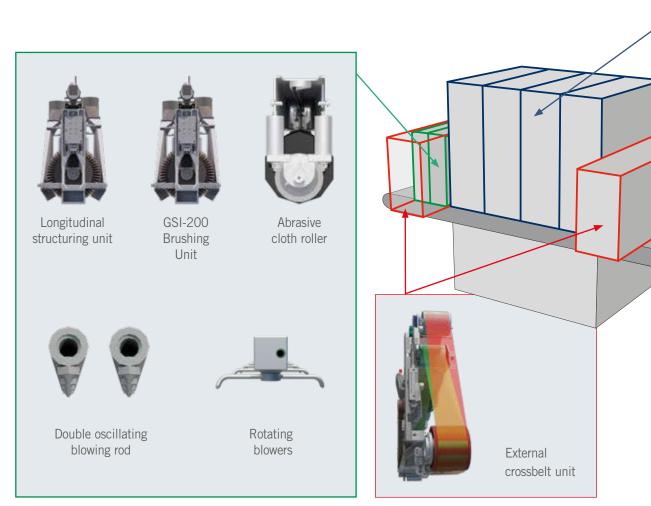
under the work table.

THE DMC EUROSYSTEM 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.







OPERATING UNITSMAIN CONFIGURATIONS

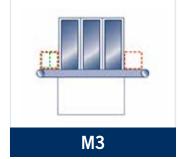
RK CONFIGURATION



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.



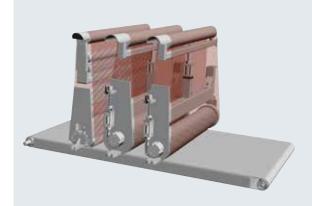
modular centres with flexible abrasives for calibrating and sanding

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

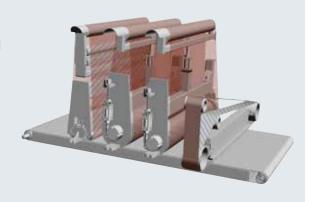
Configuration for calibrating and sanding of veneered panels

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.

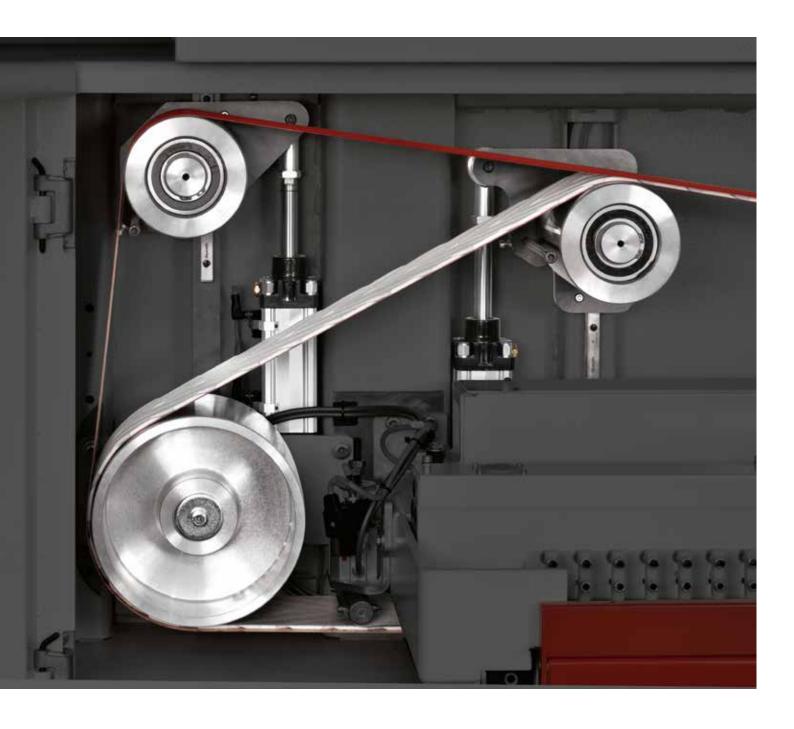




OPERATING UNITSCROSSBELT UNIT

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).



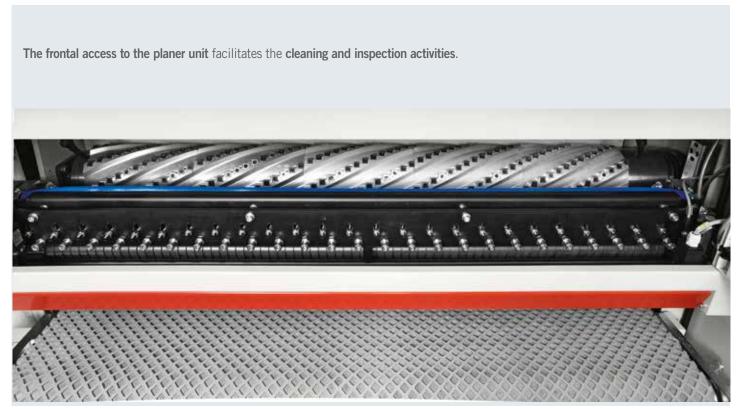


The unit can be set both internally and infeeding ,outfeeding the longitudinal units.

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 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.



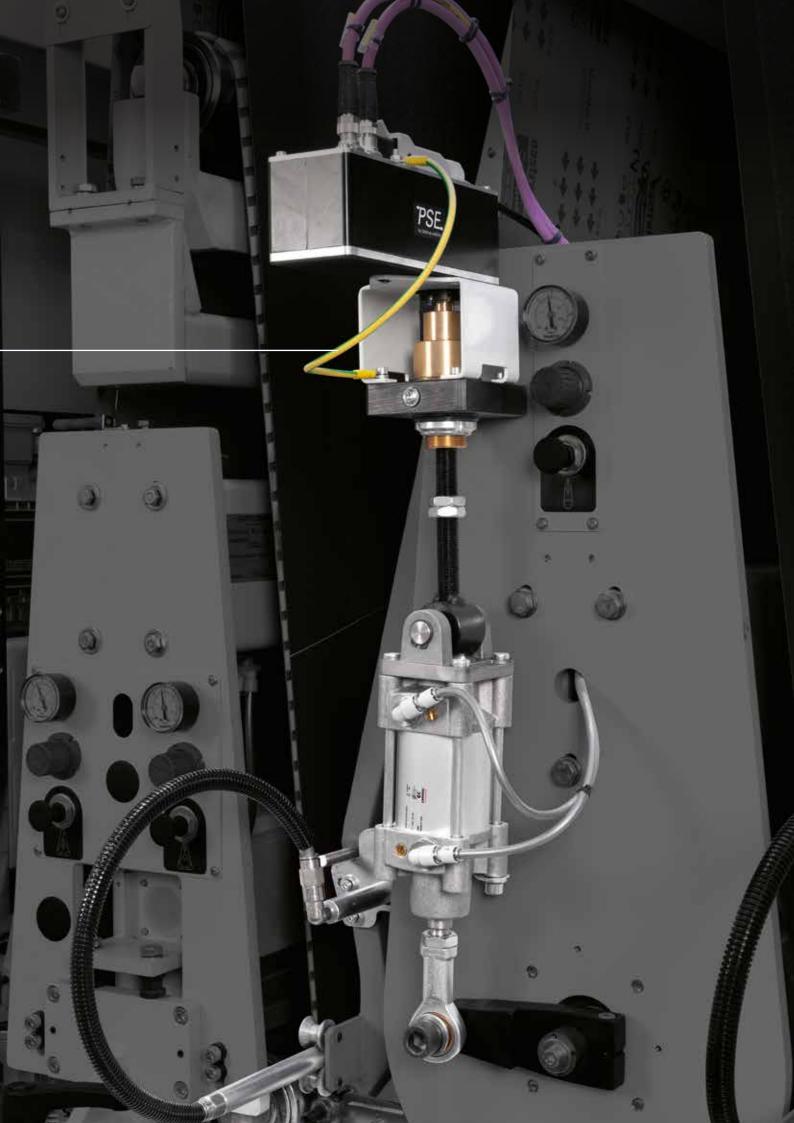


OPERATING UNITSCALIBRATING/SANDING ROLLERS

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 UNITSCOMBINED 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 UNITSSUPERFINISHING 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.



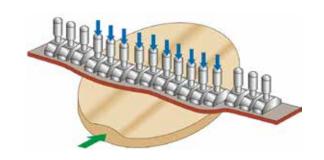
"EPICS" SECTIONED PAD

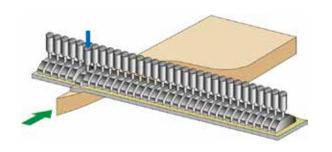


The **"EPICS"** sectioned pad consists of a special monolithic beam which houses the cylinders that activate the independent sectors.

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.

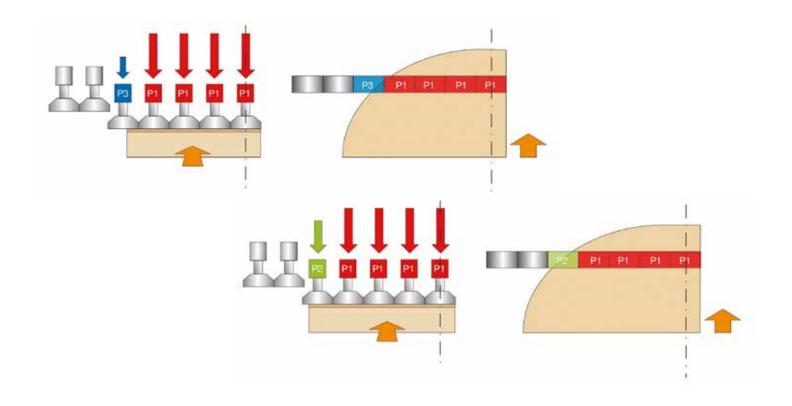
modular centres with flexible abrasives for calibrating and sanding

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 th "Maestro active sand" 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 UNITSPLANETARY 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.

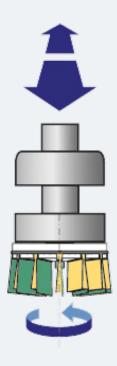


OPERATING UNITSDT 17

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.

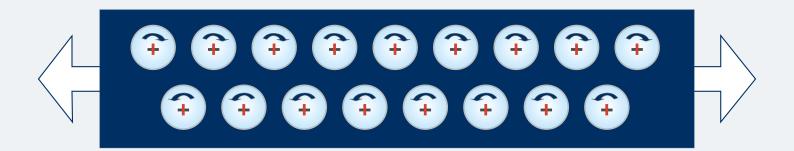
SIMPLE AND FAST MAINTENANCE

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



OSCILLATING DISCS UNIT

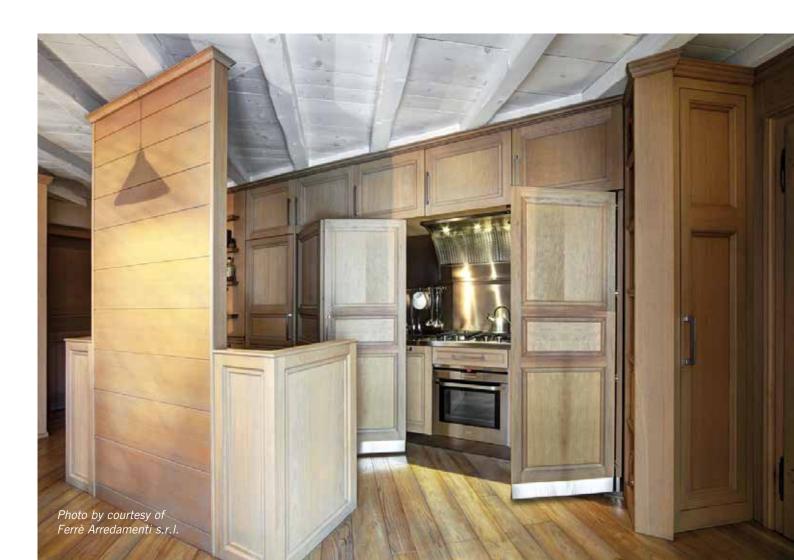
The unit is featured with side oscillating movement and a double raw counter-rotating discs' structure for greater effectiveness when rounding the edges and to reach the most inaccessible areas on the profiled panel.



Sliding movement driven by an independent motor.

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.





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 OUTFEEDGSI-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.

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**.





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.



LENGTHENED STEEL TIPS SCREWED TO THE BAR:

for the best workpiece traction under the working unit.

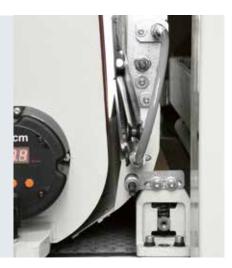


FAST LOCKING SYSTEM

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**.

TIMED OSCILLATING BLOWER FOR ABRASIVE BELTS CLEANING

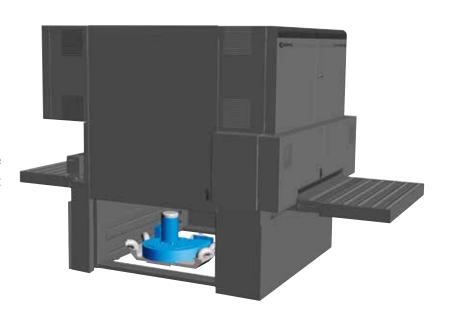
Efficient abrasive belt cleaning increases belt life and improves finishing quality, especially on painted panels. The device is automatically activated as the piece passes through the machine, in order to save the compressed air consumption.



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**.



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.



dmc eurosystem modular centres with flexible abrasives for calibrating and sanding



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

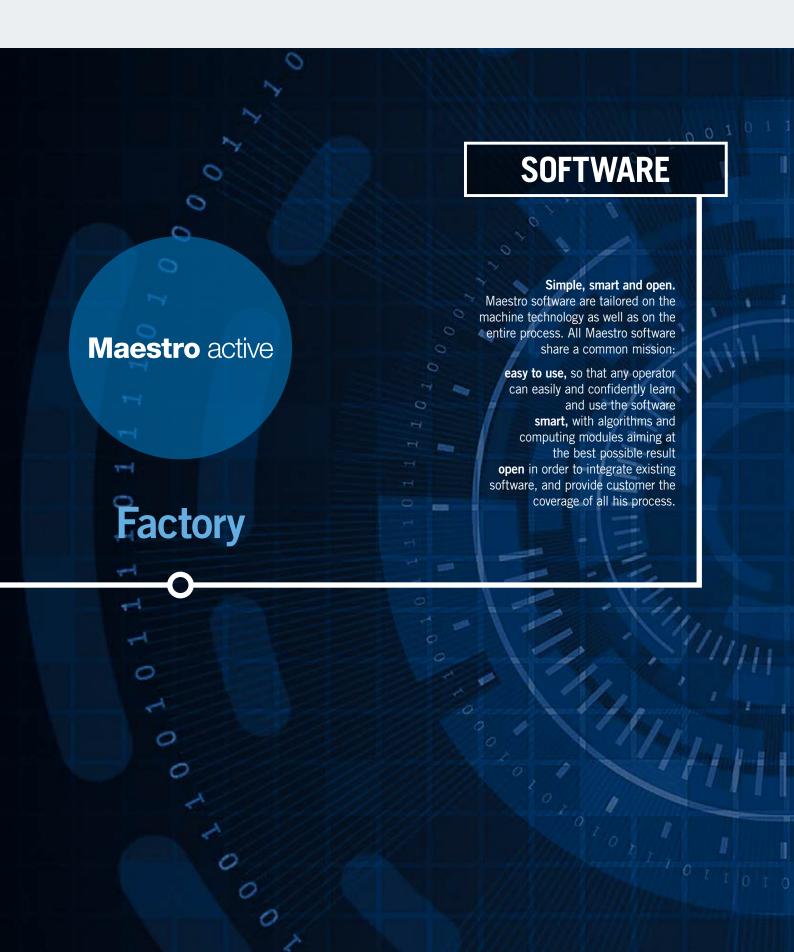
The electro-pneumatic system keeps the feed belt in the best conditions of use at all times without any operator's intervention.





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.





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 guided procedures that reduce the possibility of error from the operator's side.

SOFTWARE

Factory

Maestro active sand

Maestro active sand is the innovative software interface specifically designed for automatic wide belt sanders

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.

ADVANCED PRODUCTION ORGANIZATION

Maestro active sand allows to create different users with different roles and authorizations depending on the machine's use (e.g.: operator, maintainer, administrator, ...), to detect activities, productivity and events that occurred in each shift.

TOTAL QUALITY OF THE FINISHED PRODUCT

With Maestro active sand the quality of the finished piece is no longer put at risk by abrasive belts wear. New tool store management function **enables to execute the inventory** of all the tools available on the store, **to register the belts and to automatically prepare bar chart reports to control their status** and to alert the operator when they have to be replaced.

EASY TO USE

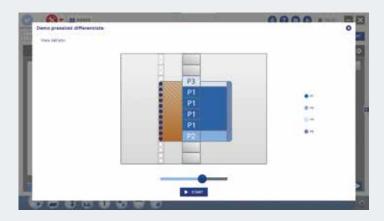
Main functions:

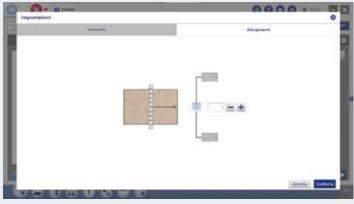
- Tool store management
- It indicates the quantity per type of belts and automatically warns when they are running out
- Barcode management: reading of customer's barcode and automatic association of the working programme and working thickness to be used
- · Creation of programs for each individual part
- Machine status management
- Following Industry 4.0 principles

dmc eurosystem modular centres with flexible abrasives for calibrating and sanding



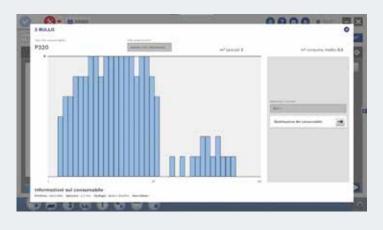














TO BE ALWAYS BY YOUR SIDE

Maestro connect

CONNECT YOUR SCM 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 SCM SERVICE INTERVENTION AND PROBLEM RESOLUTION

Thanks to the information and data provided by Maestro connect to Service SCM, you will receive faster and more timely support. SCM Service has always access to your machine Health records, drastically reducing its diagnosis and troubleshooting time.

WORKING ALWAYS IN PERFECT CONDITIONS

With Maestro connect you can equip your machine with an additional sensor kit to detect events and warn the operator in case of alarming conditions of the machine.

SMART MACHINE

THE ENTIRE MACHINERY FLEET AT YOUR FINGERTIP



- 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!

dmc eurosystem

modular centres with flexible abrasives for calibrating and sanding

MACHINE CONTROLS



EYE-S CONTROL PANEL: EASILY AVOIDING MISTAKES

Simple and intuitive control panel with 15" touchscreen 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**.

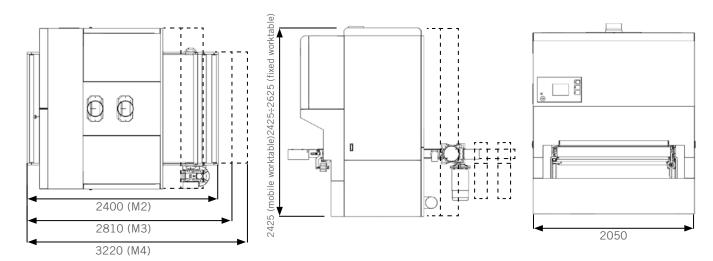


EYE-M CONTROL PANEL WITH MAESTRO ACTIVE SAND ELECTRONIC CONTROL

The "Maestro active sand" control allows you to set all the machining parameters from the "eye-M" console with 24" 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.).

TECHNICAL DATA

MACHINE DIMENSIONS



^{*} Dimensions refers to a machine configuration without the crossbelt unit

DMC EUROSYSTEM		
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



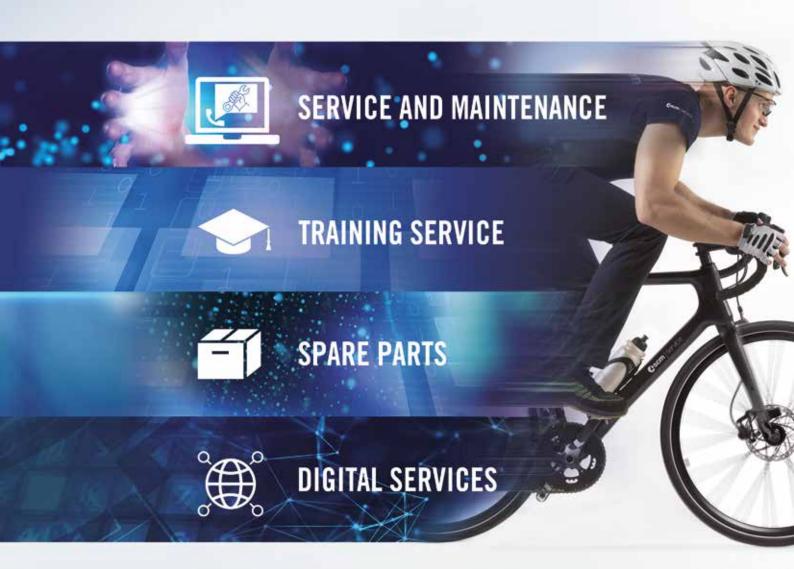
POWER ONLY WHEN IT IS REQUIRED

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.

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 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!**

CONTACT

SCM SERVICE

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Via Emilia, 61 - 47921 - Rimini - Italy tel. +39 0541 674111 spareparts@scmgroup.com www.scmwood.com





WE'LL GO THE EXTRA MILE FOR YOU





SERVICE AND MAINTENANCE

- Remote support
- Scheduled maintenance contracts
- Warranty extension



TRAINING SERVICE

- Courses for machine operators
- Software and programming courses
- Training in production start-up



SPARE PARTS

- Recommended spare parts list
- E-shop
- Interactive spare-parts catalogues
- Repairs on electronic parts, glue tanks and electro-spindles



DIGITAL SERVICES

- Maestro Connect IoT platform to be constantly connected with your machines
- Smartech assistance with augmented reality
- My Scm portal opening of service ticket and single point of access to the apps and Services tools

THE STRONGEST WOOD 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

SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL MACHINES

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 equipment and components for machining the widest range of materials.

AND COMPONENTS

INDUSTRIAL COMPONENTS

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





4steelmec

Cscmfonderie

SPINDLES AND TECHNOLOGICAL COMPONENTS

ELECTRIC PANELS

METALWORK

CAST IRON







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