

A state-of-the-art sanding with SCM

Gone are the days when a wide-belt sanding machine only worked on a single flat surface. The market requires finishes that can surprise visually and by texture, and offer a unique personal touch to a design product. Quality finishes typical of artisan work but achieved using high-tech solutions. Sophisticated aesthetic results like the saw cut, carving, 3D surfaces, as well the most varied brushing and texturing effects...

With regard to sanding, SCM leads the way with a continuous R&D path aimed at increasing production flexibility, efficiency and quality standards. The latest new entries from the Group on display at Ligna 2023 demonstrates this.

NEW DMC SYSTEM TC WITH LASER ENGRAVING UNIT FOR AESTHETIC AND 3D EXCLUSIVE RESULTS

Does the market require increasingly customised finishes? The **dmc system tc** automatic sanding-calibrating machine on show at the fair is the ideal solution thanks to a new **exclusive CO2 laser engraving unit** that is particularly suited to creating three-dimensional marking on parquet, wood elements, MDF panels to be ennobled, fibre cement panels and solid surfaces.

This engraving unit represents a **completely new sanding technology** thanks to the exclusive continuous passing application. The main advantages of this solution are increased productivity and the possibility to machine parts of any length: all with a truly compact solution because the laser unit, being integrated into the machine, does not increase the amount of space used.

Another important advantage comes from **Self-Refilling technology**, a distinctive advantage of SCM's laser engraving unit and created by **Ei.En**, one of the main businesses in the sector. They are sources known as *Never Ending Power*, which are reloaded via the use of a cylinder that is replaced when the gas source runs out, guaranteeing the same process parameters and the same power over time, without interruptions to the production flow.

With this refilling innovative technology, you can have a laser source which **always works at maximum power**. The laser beam's quality will constantly remain at its highest level and the lifespan of the laser source will practically be infinite.

Another significant advantage comes from the **"eye-M"** PC panel with which it is possible to manage, program and set the laser work parameters, thanks to a simple and user-friendly graphic interface. With just three working parameters which can be changed, it is possible to define the useful marking level to guide the operator in an easily and intuitively way. All this with the further advantage of achieving machining monitoring in real time via webcam.

SCM laser technologies have numerous applications.

The **wood flooring** machining allows you to achieve geometrical and abstract pattern with an advancement speed of up to 3 m/min. and to also score carved surfaces thanks to a dynamic focusing system of the ray.

On the **veneered effect**, the SCM laser unit is particularly well suited to customising and veneering kitchen cabinet doors.

On **Mdf** panels, relief marking before painting or plating with PVC can be achieved with the **sergiani 3d form** 3D laminating press.

When machining **fibre cement**, the laser unit is ideal for producing walls and flooring. In particular, it allows you to ennoble surfaces by marking abstract and/or geometric designs or replicating wood grain.

As part of the **solid surfaces**, it is possible to achieve attractive veneering and customised effects on materials like Corian.

DMC SYSTEM TM WITH CROSSBELT UNIT

Also on display at Ligna is the **dmc system tm 1350**, a configuration dedicated to the furniture industry and third parties requiring sanding machines and systems for heavy-duty work, used to create excellent finishes on both RAW and painted panels.

A distinctive plus comes from the **crossbelt unit** designed to achieve superior quality finishes and simultaneously maximise the lifespan of abrasive belts.

The sanding machine also offers maximum precision and sensitivity in machining each application, from the removal of glue and joining paper residues to surface sanding with a very small amount of paint. This occurs thanks to the "**Epics**" **electronic pad** and the innovative **PWM system** patented by SCM that allows you to vary the electronic pad's working pressure in real time adapting it instant by instant to the different areas of the panel.

Another exclusive plus is the **planetary unit**, a unique unit of its kind, both for the numerous types of machining work it can be used for and for the exceptional finish that can be achieved. The multi-directionality of its work is ideal for creating extremely smooth finishes.

DMC EUROSYSTEM

Also on display in **Hall 16** together with the Superfici technologies is the **dmc eurosystem**, a highly modular automatic sanding-calibrating machine that stands out for its ability to perform a variety of machining work on both raw and painted panels. The machine on display has Calibrating Roller and Sanding, Superfinishing, Planetary units and GSI-200 Interchangeable Brushing unit.

The new **planetary unit**, in particular, is ideal for structuring, rounding and sanding the crossgrain to achieve a precise finish on any surface, while the **GSI-200 Interchangeable brushing unit** has been designed for companies looking for maximum production flexibility.

Lastly, the combined action between the **rollers** and the "**EPICS**" electronic sectional **pad** allow you to achieve the best possible finish.

EYE-S 15'-DISPLAY CONSOLE FOR DMC SYSTEM AND DMC EUROSYSTEM

The **eye-S 15'**-display console replaces the **Maestro prosand 10'** control panel. The new eye-S control panel allows you to manage all the sanding functions directly from the **touchscreen** monitor both manually and via working programs that can be configured directly by the user.

The new control panel stands out for its **tool storage Function** (no sanding program on the market has this function) which allows you to draw up an inventory of all the tools in stock, observe the belts and prepare the graph reports to monitor their status and warn the operator when they need to be replaced.

NEW HMI MAESTRO ACTIVE SAND

The new "**eye-M**" HMI on the **dmc system** and **dmc eurosystem** models feature completely new functions. These include implementing the tool storage function, that also offers the chance to indicate the amount per type of belt and give an automatic warning when they are about to finish.

These new HMIs also mean the bar code can be controlled by reading the client code and an automatic association of the program and work thickness to be used can be made.

Furthermore, it has a webcam at the exit from the machine to monitor the work and apply the principles of Industry 4.0.

SCM SURFACE TECHNOLOGIES

SCM also offers itself as a unique partner for all matters relating to finishing. The Group's sanding solutions can be integrated with those for panel pressing and veneering, as well as with Superfici solutions for finishing, on display at the trade fair in Hall 16.