

## SCM launches at Xylexpo its new IoT platform - designed to change the future of wood processing

***With a high-impact exhibition booth of over 3,000 square metres, the Italian Group confirms its market leadership and presents the widest internationally-available range designed for the industry - with brand-new digital additions.***

***“Work simple. Work digital”***

SCM, a solid and reliable player across the woodworking industry, catering to any partner from small-sized companies to the largest multinational organisations, confirms its attendance at the 26th edition of Xylexpo (**Fiera Milano-Rho**, 8-12 May), where it will present its latest technological and digital solutions designed to guarantee to its own customers **quality improvement, lower costs and greater efficiency**.

From an **innovative, impressive booth** of over **3,000 square metres** in **Hall 2**, where as many as fifty machine models will showcase the widest international range in the industry, the Italian giant will present "**Maestro Digital Systems**", the platform of digital tools created by SCM to dramatically streamline the daily work of operators by improving their performance, in line with the "**Work simple. Work digital**" concept underlying the whole SCM communication strategy at the show. Among these, the main focus will be on the new IoT ("Internet of Things") platform, **Maestro connect**, in response to the latest Industry 4.0 requirements.

**As stated by Luigi De Vito, the SCM Division Director**, "*Creating a Smart Factory means creating an intercommunicating and intelligent factory, where different and physically distant entities (machines in different workshops, different operators in the same production chain linked by a common flow of information, etc.) are integrated. The new generation SCM machines are intelligent, automated and connected machines, able to collect through smart components (sensors, microprocessors, software, etc.), and connectivity systems, machine data potentially able to be combined with data from different and complementary sources, from inside or outside the company. Software and sophisticated algorithms will be able to extract valuable information for customers from these data, including, for example, the probability of a machine downtime in the next 24 hours.*"

SCM's major investment is one of the highlights of **an extraordinary year for the Group, closer and closer to the target of 700 million turnover** and with constantly growing staff numbers - currently at a headcount of over 3600 units operating both in Italy and in the 20 overseas branches.

A year also characterised by **major investments nation-wide**, including, in Monza, the new production site and the Superfici Technology Centre, SCM's standard-setting brand in the finishing business, and the creation of the edge-banding Technology Centre in Thiene (VI), the largest in Italy, and the new production area in Zogno (BG), reviving a 20,000 sq m manufacturing centre in order to increase production of CMS special machines. CMS is a Bergamo-based company which for 15 years has been the pride of the Group, focusing on the processing of advanced materials, plastics, glass, metal and stone, used in the automotive and aerospace industries for example.

### **MAESTRO CONNECT: A NEW GENERATION OF 4.0 MACHINES**

**Maestro connect** is the innovative IoT platform based on the "Internet of Things" concept. "It is a system for collecting and analysing data retrieved from SCM machines to increasingly monitor and optimise production processes, enabling on one hand a full control of production performances by the customer, and on the other hand a series of micro services such as, for example, a timely and

smart maintenance and an optimized spare parts management - as stated by Manuela Andreani, the **SCM Software Product Manager** -. The advantages granted by the system are: increased productivity and decreased downtime, improved and continuous operating cost control, lower maintenance costs and the ability to monitor machine parameters and performance in real time, anywhere and at any time, so as to be able to always correct any malfunction in an increasingly timely manner (*smart maintenance*)".

Visitors to Xylexpo will be able to find out all about the advantages offered by **Maestro connect** on some of **the most popular numerical control SCM machining centres** among solid wood and panel processing companies. These include **accord 42 fx**, the latest evolution of the Accord range, which has raised considerable interest among door, window and stairs manufacturers, with its dual spindle, combined 3- and 5-axis independent head machining centre, designed to combine in the most efficient way high power and profiling requirements with creative performance and production flexibility, in line with the demands of a market where the focus is increasingly shifting toward customised, personalised products.

Also expected to be enhanced by the new IoT solutions by SCM is **morbidelli m220**, the new, exclusive milling and boring machining centre for furniture panels, **whose distinctive feature is to operate two** parallel, independent heads for the simultaneous boring of several panels, so as to allow for **up to 70% savings off boring cycles**. The machine is equipped with software to control the automatic arrangement of the panels to be processed and an optimising algorithm able to determine the fastest boring strategy. This algorithm, combined with boring heads designed to work in pairs with reduced centre distance, independently chooses whether to work with both heads on the same panel or simultaneously on two panels (one head per panel).

#### **WORK SIMPLE. WORK DIGITAL**

**Maestro connect** joins the other solutions available from **Maestro Digital Systems**, the platform of digital products and services seamlessly integrated with the solid process technologies for SCM woodworking: the new, latest generation, multi-function, wide-screen and multi-touch operator panel (**eye-M**), the innovative remote assistance and maintenance system with augmented reality glasses (**Maestro smartech**), the powerful and versatile **Maestro suite**, a complete software system for all processing types and methods, as well as the Virtual Reality 3D Integrated Cell Simulation system (**Maestro xplore**).

In the Digital Hub set up for Xylexpo, SCM will also present **its latest software designs**: the new and latest version of **Maestro CNC** software to be integrated in all machining centres including accord 42 fx and morbidelli m220. Among Maestro CNC innovations, the new tool-workpiece machining simulator, allowing to check processing details and to have direct visual control of the obtained result through animated 3D rendering - which makes it possible to check the accuracy of the tool path and correct any programming errors remotely from the designer office; **Maestro Square**, the latest addition to the Maestro Suite software range, integrated for **celaschi squaring** machines, designed to manage work programs and monitor machine status by displaying real time performance data. With the "pro" version, the user will also have access to a number of advanced features, from pyramidal setup through axis interpolation all the way to tool wear management. Other highlights of the show will be **Maestro Cut** and **Ottimo Cut** for advanced cutting management and optimisation.

#### **FULL SCM TECHNOLOGY FOR CUSTOMISED AND INTEGRATED PRODUCTION**

SCM's technological innovations will cover the entire range of industry solutions on display at the show: from machining centres for panel boring to machining centres for the solid wood and timber construction industry, from edge banders and sizing edge banders to beam saws, from sanding to surface finishing, from assembly and packaging to pressing, from specific solutions for doors and windows to squaring-tenoning and profiling, automation and top-level automatic handling products,

and last but not least, the widest and most sought-after collection of joinery machines for small-sized carpentry businesses.

In SCM's **innovative** and multimedia exhibition space at Xylexpo, **new designs** will be showcased **for every industrial production process**, from furniture manufacturing to shipbuilding, from window frames to construction - side by side with the most reliable range of joinery machines.

In the field of **solid wood machining and technologies**, SCM offers a selection of possible applications for the production of windows, doors, stairs, chairs, design creations and furnishing accessories. The Accord range will be prominently featured at the Milan show: **accord 42 fx** will be joined by the highly flexible machining centre **accord 50 fxm**, for the processing of complex, large-sized items and for multiple fields of use, **and by accord wd**, the integrated cell for door and window manufacturing offering the same operation flexibility as a stand-alone machine.

The focus will also be on **superset nt 32**, the moulding machine enabling endless applications, and the **balestrini** line of compact tenoning/mortising machines **pico md3** and **pico om** for special joints, as well as on the 5 axis, high precision **power** machining centre, in line with the increasingly demanding and varied requirements of the woodworking industry.

Among the new products at Xylexpo, the **squaring machine p40 by celaschi**, able to machine both solid wood and panels, and settable to machine joining grooves and J-Shape profiles and to perform straight or inclined machining. A fully electronic machine, it is equipped with latest generation electronic control and comes with the **Maestro square** software which makes it a 4.0 machine in all respects.

Among the **panel machining centres**, in addition to the most eagerly awaited new design at Xylexpo, **morbidelli m220**, the **morbidelli p200** drilling, milling and edging machining centre will also be standing out for its innovative edge-banding unit, which can process up to 80 mm thick panels, and for its exclusive HE-POD suction cups, making the most of the machining centre potential thanks to alternate workpiece lifting.

Among SCM **cutting** options, **gabbiani g 3/gt 3 165** is the latest addition to the already well known gabbiani g 3 / gt 3 series designed to meet all the needs of companies that need to machine medium to large batches in a continuously evolving market. Thanks to the **Maestro cut** software, the new operator interface has been designed according to "4.0 industry" principles and is now fully integrated in the "easy & responsive" production system.

As for **edge-banding**, SCM presents new devices starting from the **olimpic** range: **its new range of Fastback panel return systems** that increases the production efficiency of the stand-alone edge-banding machine, up to 20-30% with a single machine operator and an air-cushion bench positioned infeed which considerably helps the operator when processing panels of great dimensions.

A model to be pointed out is **olimpic k 560**, the reference machine for small woodworking companies, which further increases its performances thanks to the possibility to machine **solid wood edges up to 12 mm** thickness, for a greater versatility of use.

Highlights for SCM edgebanding machines also the new **AirFusion+** device, which helps the **hot-air/zero glue line** application increase productivity by +10% and cut start-up times by 50%. Among the machines on display, which include with the new HMI "**eye-M**" with 21.5" multitouch display featuring 3D preview of the machined panel, there is **stefani xd**, the most up-to-date application of the wealth of expertise acquired by SCM in the field of industrial edge-banding. Among its added values are the **generation E spindles**, designed to provide a solid balance between lightweight machining and new rigidity standards.

Important news also for the **finishing systems**. SCM presents at Xylexpo an integrated offer that includes a wide range of technologies for sanding, pressing and finishing (painting) with the aim of

providing 360-degree solutions and services to suit all process and type requirements of final products.

The showcased **sanding** solutions are also expected to be of great interest for the furniture industry and contractors who need solutions suitable for intensive use and able to ensure striking and highly customisable results: from **dmc system t4**, able to achieve, thanks to its internal cross-belt unit and planetary unit, excellent finishes on both unpainted and painted panels, to **dmc system t5** equipped with two **carver** units and a saw cutting unit, particularly suitable for obtaining effects such as carving, band saw cutting or structured effects.

SCM also intends to further strengthen its role as a **pressing** segment player with an even wider range of solutions, able to respond to all market requirements. In addition to the manual **sergiani gs** and automatic **sergiani ga-a** hot processing presses, designed to meet a variety of customer needs, particularly in the field of panel and door machining, SCM now plans to expand its presence in the pressing segment with **pf** cold-working presses, **gsl-a** and **gsl-k presses** for strip panels, **3d form** for membranes, **vb** vacuum boxes and various line **solutions** featuring simultaneous loading single and multi-compartment automatic presses.

The SCM range is completed **by the Surface finishing solutions**: from **Maestro**, anthropomorphic robot for the quality paint finishing of doors and windows, to the **Magnum** sprayer, with its integrated user-friendly, intuitive software able to manage parameters, functions, diagnostics and recipes.

Last but not least, the evergreen **joinery machines**, world-leading top class designs combining unique performance and continuous innovation. These features are confirmed by the complete range of solutions displayed at the fair, and most remarkably, by "**L'invincibile**" range with its upgraded design and technological features, an absolute market benchmark in terms of precision, reliability and safety. The dual tilt introduced in the circular saws **si x** of the L'invincibile range is now extended to the smaller "**minimax**" version with the introduction of the **minimax si x** model with **+/-46°** tilting blade and programmable motor-driven movement. At Xylexpo, the focus will also be on the **combined edge rounder-trimmer unit for edge-banding machines** - the ideal one-stop machine for facing and trimming the front and rear ends of panels and at the same time, rounding the front and back edges. The new **VF extractors** are innovative technology, clean air filters that complete the widest range of woodworking machinery on the market. Low-noise and efficient, they are ideal for any work environment.

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**Scm Group** is a technological world leader in processing a wide variety of materials: wood, plastic, glass, stone, metal, and industrial components. The Group companies, operating throughout the world, are reliable partners of leading companies in various market sectors, including the furniture, construction, automotive, aerospace, ship-building and plastic processing industries.

Scm Group coordinates, supports and develops a system of industrial excellence in 3 large, highly specialised production centres employing more than 3,600 workers and operating in all five continents.

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