

NEW SCM FEATURES FOR SOLID WOOD

Solid, robust and with timeless charm. Solid wood, a high-quality, refined wood par excellence, can bring a warmth to any environment thanks to its aesthetic features and exclusive materials, a sign of how much better nature has managed to create and preserve.

SCM proposes a wide range of technologically advanced solutions, capable of fully meeting all the different processing requirements of solid wood demanded nowadays by the market: from its uses in building (doors and windows, staircases) to furniture and furnishing accessories (especially chairs and tables) that aim to stand apart in their design and quality of the material.

HYPPOS

Hypsos is the highly flexible 5-axis machining centre designed to process complex-shaped elements in curved wood or solid wood: armchairs, chairs, furniture and design furnishing accessories

MACHINING FREEDOM

The machine's design characterised by a high vertical stroke of the machining head unit, means a **high volume of work** and the possibility to position large-sized elements.

Thanks to the high power electro-spindle, high stock removal can be carried out with large sized tools, arranged on various automatic tool stores. Applied to a robust integral monobloc structure, it guarantees **maximum precision and perfect finishing of the element surface**, in line with the high quality required by the end product.

MAXIMUM SAFETY, MINIMUM FOOTPRINT

With the integrated protection enclosure, the machine is completely closed during processing and an excellent rapport is established between volume of work and footprint, with the dual advantage for the client of: **space saving and complete safety for the operator**.

All this without compromising on general ergonomics: the sliding front doors provide easy access to the worktable during the piece loading/unloading operations and are fitted with transparent windows to ensure the operations in progress are always under control.

EASE OF USE

Complex processes do not correspond to complexity in using the machine: the new **Maestro active** interface software, available on the SCM machining centres, simplifies the operator's everyday work by monitoring all the information required in real time and optimising productivity.

BALESTRINI POWER: maximum versatility in compact sizes

Balestrini power is the SCM 5-axis machining centre with a fixed gantry structure. This CNC machining centre, ideal for manufacturing chairs, tables, beds, doors, staircases and musical instruments, can be configured with different specific solutions (worktables and work piece locking devices), to achieve **maximum productivity**.

In particular, the bars worktable guarantees easy set-up and maximum versatility. The **Combi and Jig free** work piece locking devices are fixed manually to the bars using mobile carriages, allowing to lock elements of any shape by means of specific jigs.

With the **CS33 machining head unit** with 3 liquid cooled electrospindles, one of which with tool changer, all the tools needed for the different operations are always available for an unparalleled processing speed.

Balestrini power is fitted with a new **CE cabin with horizontal sliding doors**, a solution that combines maximum ergonomics during loading/unloading phases and complete safety from possible tools or pieces ejection.

The **5-axis Smart Pro CAD/CAM software** is worth mentioning as it makes it possible to generate work pieces and processes, and automatically optimise and simulate in a single work environment thus strongly reducing programming time.

The new **Maestro active** human-machine interface, appearing for the first time on the SCM technologies, means the potentials of this machining centre can be exploited in an even simpler, more intuitive way.

Lastly, to complete the digital solutions package, from Ligna 2019 on **balestrini power**, we have the new **Maestro connect (IoT platform)** that makes the machine "smart": its data is analysed and monitored to increase productivity and reduce operational, power and maintenance costs.

ACCORD 42 FX

The CNC machining centre with double machining head, the ideal solution for the machining of doors, windows, stairs and solid wood elements

The latest addition to the **accord** range, the **accord 42 fx** model is ideally suited for joiners, door and window manufacturers as well as for stair producers. Equipped with automatic worktable and designed for heavy duty operations, it is ideal for those companies requiring high productivity on variable batches, thanks to its versatility.

The main feature of this machining centre is the **TWIN machining head** combining 3 and 5 independent axes.

VERY HIGH PRODUCTIVITY

The alternate use of the two routing units reduces the cycle time: while one unit is working, the other performs the tool change in masked time.

TOP PERFORMANCE WITH THE 3/4 AXIS REAR ROUTING UNIT

Heavy duty profiling at high speed for a perfect finish quality, using the rear routing unit equipped with the **21 kW electrospindle**.

MAXIMUM VERSATILITY WITH THE 5-AXIS FRONT ROUTING UNIT

Typical aspect of the **accord** machining centres is the facility to carry out different processes without intermediate set-up from the operator: **tilting routing and drilling on complex shaped objects**, cutting with 350 mm diameter saw-blades for very thick elements.

UNLIMITED PROCESSING

The capacity of the tools stores, **up to 76 positions**, enables the machine to be always ready for any operation, reducing time for tooling.

Control and programming of **accord 42 fx** by **Maestro active cnc** software that has specific applications for the processing solid wood, augmented with a series of even more surprising advantages, thanks to the SCM's new IoT solution, **Maestro connect**, ready to change the future of wood processing in line with the new demands from Industry 4.0.

ACCORD 25 FX

Even smarter thanks to the new SCM "Maestro connect" IoT solution.

At Ligna 2019 the **accord 25 fx** will be presented in its **new "4.0" version**. SCM's new exclusive IoT solution, **Maestro connect**, adds further fundamental advantages to this machining centre to increase its competitiveness on today's markets:

- **augmented productivity and reduction of machine down times** due to the possibility of controlling in *real-time* the machine status, the parameters that affect the machining quality (e.g., the level of wear of the components and the state of the machine's various machining units) and of planning the production;
- **precise control of the operating costs** with the complete traceability of any machine down times;
- **greater diagnostic precision** of any problems and **reduction of the maintenance costs**.

The other advantages of accord 25 fx are:

- The **PRISMA** machining heads with 5 interpolating axes, designed for the processing of solid wood, guarantee **heavy duty profiling, production flexibility and best finish quality**;
- **MATIC** automatic worktable, for the complete set-up in seconds. It is ideal for the machining of pre-finished window elements that foresee the work-piece repositioning during the work process;
- The architecture with fixed table and mobile gantry structure, consisting of a sturdy construction equipped with front and rear sliding guides, ensures **maximum accuracy and finish quality over the entire work area**.

SUPERSET NT

SCM moulding machine enabling endless applications, presented at Ligna with the new MOBILE PC electronic control unit

The range of SCM **superset nt** throughfeed moulders has been updated to make solid wood machining even easier and smarter.

The main asset of this range is its great versatility, which makes it possible to create an extremely wide selection of products: profiles for windows, doors, stairs and furniture.

EASY TO USE

The electronic control **MOBILE PC**, which comes with **Maestro active 4-side** software, and with a 21,5" touch screen monitor, has many **features**: simplified program searching, thanks to profile image importing; detailed reporting on the use of the machine; clear and intuitive icons; customised machine layouts, etc.

MOBILE PC allows for full **integration of all the machine management functions**, including management of the electronic axes, of the drive system and of each spindle motor.

The operator is assisted in all the machine setting phases with **the MDI feature**, which also allows for manual axes control.

PRECISION AND RAPIDITY

The **SET-UP** system allows the operator to change tools and perform adjustments by minimising

the likelihood of errors and making **set-up time up to 20 times faster**.

CUSTOMISED COMPOSITION

superset nt eight different possible set-ups, thanks to **two right vertical spindles**, two upper horizontal spindles, with and without the universal spindle.

A new power of the feed motor, 5.5 kW, electronic left fence located after the vertical left spindle, horizontal pneumatic on/off positioning of the first right vertical spindle and the fence included among the right verticals, possibility of having 2 rollers on the worktable, before and after the 1st upper horizontal spindle and updates that make its performance even better.