

SCM presents its high efficiency, integrated compact factory at Interzum Guangzhou

The new "Integrated Compact Factory" presented by the Italian Group offers a complete machining process with just three, yet state-of-the-art technological solutions. A flexible production model that, if requested, is both modular and reconfigurable, with increasingly more advanced automation systems. An answer to specific demands from the Chinese high-end furnishings and design market.

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SCM reconfirms its attendance at **Interzum Guangzhou**, the main trade fair event in China for the woodworking industry and proves to be a benchmark partner for businesses on the "high-end" Chinese market looking for highly innovative, efficient technological solutions to produce top quality design products.

Behind the Italian Group's solidity and reliability lies a story of technological innovation and top level skills in the woodworking sector that has been protracted for **seventy years**, an anniversary that SCM celebrates in 2022.

China continues to be a strategic market for the Italian Group with its directly managed branch and a specific Engineering Team, capable of offering the most advanced Chinese businesses, projects of entire factories that are "turnkey" as well as highly innovative and efficient customised automated solutions.

Solutions like the "**Integrated Compact Factory**" on show at Interzum Guangzhou 2022. This is one of the many configurations that the SCM Smart&Human Factory can assume based on specific client demands. A cell of automated, modular and scalable technologies which, depending on the different production needs of the clients and market trends, can be integrated with additional and even more advanced solutions.

SCM aims to present a **complete factory model for panel machining** in a few square metres and with three technological solutions that stand out for their high level of efficiency even in the most flexible machinings and for their ability to achieve a top quality, design product. Equally important is the MES management system that optimises 4.0 programming, management and interconnection of the entire production flow.

The "Integrated Compact factory" in detail

The key advantages of the cell presented by SCM include extreme machining flexibility, a fixed and just in-time production flow and an excellent end product quality, thanks to the special features of the technological solutions on display.

Beam saw

The **gabbiani** beam saws sizing area, stable and heavy-duty, is the ideal solution for sizing both single and multiple panels made by wood and its derivatives.

It combines the great advantage of flexibility with high levels of efficiency, **with a productivity of up to 8 m3 per shift**, thanks to the **high speed** device that allows to reach a speed of 70 m/min of the pusher and 100 m/min of the carriage, without any additional maintenance.

As a must, an **excellent cutting finish** thanks to the exclusive characteristics of the blade carriage and a safe and constant tightening made possible by the pneumatic blade unblocking system.

Besides, **precision in every phase of working** is guaranteed by uniform pressure over the entire length of the cut, a secure grip on the panel even at maximum speed and perfect parallelism even with panels that are not perfectly flat.

The base and the work table in reinforced and ribbed steel allow precise movements of the carriage, ensuring **stability, compactness and maximum repeatability of the cut over time**.

The possibility of enabling or disabling the **selective air floating** on each working table thanks to the independent motors, ensures immediate and quality cuts with the additional advantage of obtaining **maximum cleanliness** and smoothness only where needed, thus avoiding accidental falls of panels already cut.

Nesting and drilling-routing

The cell also features the **morbidelli x200** CNC machining centre, the ideal solution for flexible "batch 1" production because it permits nesting machining of pieces that are even shaped, and in a variety of sizes, with **a cutting speed of up to 50 m/min** and unprecedented productivity levels for this technology.

All the machining work is done without removing the spoil panel, even in 3D thanks to the **X-POD** suction cups. This dramatically reduces the machine's set-up times.

Another advantage is its **maximum precision**: even the smallest pieces can be blocked during machining thanks to the **new X-Vacuum system** which activates a dynamic vacuum concentrated on the worktable zone where machining is ongoing.

The machining centre on show at Interzum Guangzhou is designed to offer an even faster machining speed compared to market standards thanks to its integration with an articulated robot for unloading the panels. So, outstanding performance and maximum configuration combine with a considerable increase in flexibility and productivity.

Edgebanding

Stefani x, the new industrial edge bander designed to offer top machining quality on any kind of panel and material to fully meet the needs of a connected, integrated digital factory, is making its début at Interzum Guangzhou and on the Chinese market.

Stefani x can machine panels at a **speed of up to 30 m/min**. over the course of several shifts a day. All this, thanks to top of the range units and a new, highly rigid mechanical structure.

Another advantage is the excellent **flexibility when changing glue**: thanks to the unique "**glue switch**" solution, *just in time* change of colour and glue type is possible, thus achieving even more flexible, efficient production. The "secret" lies with the **two glue tanks** operating simultaneously during machining, that can be interchanged using the type and colour of glue requested by the work program. The glue tank can also be replaced or maintenance work carried out on it without having to stop the edge bander.

The new stefani x also offers **top-quality gluing on any type of edge**. The intensity of the first pressure roller is adaptive: it can be automatically adjusted by the edgebanding machine's control system according to the edge being used. Furthermore, the edge can be replaced with a reduced distance between the panels thanks to the new automatic edge change device with 2 and 6 rolls and with a roller change system that allows for a reduced interspacing of 350 mm without limiting the machine's performances.

Also featuring is the **new range of high-end electronic units (end trimming, rounding and glue scraping)** designed to meet two objectives that are key to the market: easy use even for more complex machining on delicate, trending materials, thanks to an automatic, flexible set-up, as well as repeatability, quality and accurate production processes, thanks to the electronic touch.

At Interzum Guangzhou, the edge bander will be integrated with **an automatic panel return system** to speed up the production process further even when machining small batches.

Still on the subject of edgebanding, SCM is confirmed as a benchmark partner for **AirFusion+ technology**, greatly appreciated by the Chinese businesses in the furniture and design industry looking to stand out from the crowd with an exclusive and surprising finish. Indeed, AirFusion+ allows for edgebanding without the use of glue, making the **joint between edge and panel invisible**. The AirFusion+ technology presented at Interzum Guangzhou on a **stefani kd** edge bander is compatible and easily integrated with traditional gluing technologies as well as being available on the entire range of SCM edgebanding machines.

As well as the technologies on display, the SCM team will be presenting an extensive programme of virtual demos on the latest technologies most in line with Chinese market demands, in answer to the vastly varied panel and solid wood machining requirements.

With a turnover of € 750 million and 4,000 employees, **Scm Group** is the global leader in technologies for machining a wide range of materials: wood, plastic, glass, stone, metal, composite materials and industrial components. Across the globe, the group's companies act as highly reliable partners to leading industries in a wide range of product sectors, from furniture to construction, automotive to aerospace, and yachting to plastic machining.

Scm Group coordinates, supports and develops a system of industrial excellence in 3 large, highly specialised production centres in Italy and it operates on all 5 continents.

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