

On the leading edgebanding: SCM's latest solutions at Ligna

MORE EFFICIENT BATCH 1 EDGEBOARDING WITH THE NEW STEFANI CELL AND ROBOT

Flexibility, integration and automation: these are the pillars of the **stefani cell E** flexible industrial edgebanding cell present at Ligna 2023 as part of the Smart&Human Factory production model for the furniture industry.

The cell is an "entry level" solution for already squared panels in SCM's range and was developed to meet the demands for **efficiency, high productivity** and **customisation** required by the market today.

In the configuration presented at Ligna, the heart of the plant is represented by a **stefani x** single-sided edgebander, ideal for working intensely over several shifts and to offer maximum machining quality on each kind of panel and material.

The piece feeding to the edgebander is done following a completely automated logic thanks to an **articulated robot** that works in complete autonomy with their loading onto the worktable. On exiting, the **pickback** gantry panel return system guarantees the automatic and flexible handling of the panel, from the exit of the edge bander to the panel loading area, both lengthwise and crosswise. The panel is automatically rotated to speed up the next re-introduction. It will also be possible to unload at the end of the cycle in masked time with the next loop load.

The key advantages

High productivity: automation relieves the operator of low added value work and increases the machining speed up to **25 metres a minute**.

Maximum quality: the cell guarantees an ideal application of the edge without the use of glue, thanks to AirFusion+ technology, and outstanding machining quality even on the most delicate, state-of-the-art materials thanks to electronic controls.

The cell is also **extremely versatile** because it can machine both automatically with the robot and manually with the operator, for example, to deal with emergencies or to handle the pieces that can't be dealt with by the robot. (This depends on the layout and sizes of the panels to be edged).

Simple and intuitive control thanks to **Maestro active edge** HMI software.

STEFANI SBX HIGH PRECISION SQUARING FOR OUTSTANDING MACHINING

The new industrial stefani sbx squaring-edgebanding machine features the most advanced technological solutions developed by SCM, like the Servo electronic units and other optimisations aimed at achieving levels of finishing quality and squaring of the upper panels superior to current standards.

Stefani sbx can be used in stand-alone mode or as part of integrated lines and is synonymous with a high investment return, as it is a squaring-edgebanding solution with the **best price/performance ratio** in its market segment.

One of the main advantages is **high productivity:** stefani sbx has been designed to operate reliably and without interruption over several shifts per day, 7 days a week. It can reach machining speeds of up to **40 m/min** with an interspacing of 350 mm even with a machining change, and can square and edge a vast range of panels with a thickness of between 8 and 60 mm.

Another significant advantage is the **high squaring precision and parallelism:** the extremely solid new single-block structure, the innovative squaring units and the use of **13-cog feed pinions** significantly reduces the vibrations even at high speed.

The **glue can be changed without having to stop the machine**: the exclusive "**glue switch**" system designed by SCM allows the colour and glue type to be changed easily and instantly. This occurs thanks to an additional glue pot, complete with motorisation, and the option of different pre-melting combinations depending on production needs.

Thanks to the new Multiedge devices, *just in time* machining up to 3 beams can be achieved and an infinite variety of slim edges, as well as panels with projecting veneering and panels with holes for hardware.

The **high-quality finishing** is also guaranteed by the "**electronic touch**" units with power-assisted technology that make the squaring-edgebanding even simpler and more intuitive, even with the most complex machining work and on delicate, trending materials. An automatic, flexible set up that can offer excellent finishing quality and constant performance on all machining work.

SCM's new squaring-edgebanding machine has been designed to offer **an annual energy saving of 10%** and a considerable reduction of 50% on the wear of the edge. Its gluing is so precise that it guarantees minimum waste even at high speeds.

Added to this are the advantages for a connected, integrated production. Stefani sbx has an exclusive **digital control system with 3D additive preview of the piece being machined** and allows you to work in perfect synergy with other technologies and MES computer and management systems at the factory.

Stefani sbx is a highly configurable and customisable squaring-edgebanding machine, designed to offer **maximum versatility**. Indeed, there are 11 possible configurations with a vast **range of unit** options to meet any production requirement and make it more efficient.

OLIMPIC 500: ALL THE ADVANTAGES OF AN EDGE BANDER EVEN IN LIMITED SPACES

Complete and highly versatile, **olimpic 500** is an edgebander designed for small and medium-sized companies to offer a wide variety of machining operations in a reduced floor space, though always with **high standards of quality**.

Available both in pneumatic and electronic set up version, olimpice 500 allows you to machine **2 real radii** on all the units and **panels up to 60 mm thick**. All this by continuing to guarantee excellent quality standards thanks to the machine's extremely sturdy mechanical structure and the Multiedge device available on the rounding unit, including the 2-motor rounding unit.

Its **high versatility** is another of its key advantages. Indeed, it is possible to perform a **simple, quick glue change**, EVA and Polyurathane, thanks to the SGP-E glue pot, designed to achieve a perfect joint line.

The new olimpice 500 edgebander is also unique in its kind with its hot-air plastic edging brightening unit for an outstanding finish to the panel.

Its use is even more user-friendly. The state-of-the-art, touch-screen control panels, with new 15" eye-S console, and the **Maestro active edge** HMI provide the operator with an efficient and intuitive working experience, as well as guaranteeing maximum connectivity and synchronisation towards the company systems.

There are a wide range of advantages thanks to the high-end technological solutions, drawn from machines from higher-end segments of the market, and so many other options can be customised to suit the customer's needs.