

ALL THE LATEST ON EDGEBANDING AT LIGNA

An **increasingly more sophisticated productivity** thanks to the integration of the edge bander in cells and plants fitted with rollers, panel return devices, automatic loading and unloading systems, assisted by robots and fitted with IoT sensors for a more immediate control on the machine's functioning, in line with Industry 4.0 requirements. At the same time, **unique machining accuracy and quality on any kind of panel**, even the most delicate ones and more complex materials, thanks to a new rounding unit and state of the art devices for a perfect glue line.

These are the main new entries which make SCM technologies for edgebanding stand out at Ligna 2019. A business unit where the Italian group has been at the forefront for some time as a historical and reliable partner to world-renowned prestigious companies and which has its main point of reference for testing the best edgebanding solutions directly on site with the aid of a team of dedicated technicians at the **Tech Lab in Thiene (Vicenza)**.

stefani cell: THE NEW RANGE OF CELLS FOR "BATCH ONE" PRODUCTION. EXCLUSIVE SOLUTIONS FOR MAXIMUM EFFICIENCY IN TERMS OF PRODUCTIVITY

stefani cell is the new generation of cells with edgebanding and square edging for "batch one" machining with high tech solutions, even with minimal investment, designed and developed by SCM to meet the critical aspects linked to "mass customisation" and the demands from a market seeking a faster, more accurate edgebanding with a constant focus on high standards of quality and without sacrificing the advantages of an industrial production.

At Ligna, the range has a new look even on the software side with **Maestro active watch**, the new supervisor with interface and structure shared with all SCM machinery and **Maestro active edge** for error free usage and maximum performance. For the first time at Ligna, SCM's edgebanders and squarers come integrated with the **Maestro connect**, IoT platform, the **data** collection and analysis system for data coming from SCM technologies that gives full control, on the one hand, of production flow, and the implementation of intelligent, predictive maintenance models on the other.

stefani cell H/H+: PRODUCTIVITY AND QUALITY WITHOUT COMPROMISING

High productivity, maximum customisation and excellent machining quality. **Stefani cell H/H+** is the new edgebanding and square edging cell that brings together all these advantages in a single solution. The cell is fitted with an automatic panel feeder system and, is structured for technical solutions, level of investment and efficiency and is designed to guarantee both industrial level production volumes as well as maximum diversification of the production batch.

stefani cell H/H+ provides a 100% efficient machining of components for furniture items for every part of the home (kitchens, living rooms, sleeping areas, bathrooms, wardrobes and studies) with considerable advantages.

- **Instant production and financially advantageous** both for **batches with single panels as well as for average standard stacks**, without the need to stop production for a change of format, thickness, ornamentation and gluing quality that occur on a regular basis during a machining shift.
- **No errors and a guarantee of always feeding in the panels in the right direction, thanks to the SIDE FINDER technology**, which, via a display in the operator's area, shows how to position the panel so that it can be correctly machined.

- Instant availability, **even on mobile devices**, of the machining information relating to each single panel, wherever it is in the cycle, thanks to the continuous tracking provided by the supervision software.
- Optimisation of the panel flows and movements which are **managed and synchronised by the data sent to the company network**: this allows you to choose the best machining **results**, gluing quality and tool change flexibility within the minimum space and with a single operator, thereby significantly optimising production costs.

stefani cell S: FOR A HIGHLY FLEXIBLE SQUARE-EDGING

stefani cell S is the "all-in-one" square-edging cell focusing on average investments with the aid of a single operator to achieve clear advantages for the business from the outset, especially companies concentrated on a semi-intensive production and/or with varying production batches.

- **Compact and efficient: with a single operator and a cell of just 85 square metres in its basic configuration it allows for work to be done on** parts coming both from the nesting cycle already measured and squared and from the sheet cutting, and which therefore require the parallelism/squaring to be reset. This occurs thanks to the innovative **semi-automatic feeder device** with panel squaring that facilitates and permits longitudinal and transversal feeding even of large sized panels.
- **Modular and efficient:** stefani cell S is designed to be easily integrated into different operating situations thanks also to its integration with the **new pickback bridge system** that automatically unloads the machined panels into a stack. This brings with it considerable advantages in logistic terms and overall machining times with full automation for the return of the panel as far as the operator loading area.
- **Exact and dynamic:** the specific technical solutions provided guarantee maximum quality in the final assembly of the furniture in all its parts, even the largest pieces like the sides and cupboard doors. Repeatability and machining accuracy become a **guaranteed** added value for each component in the piece of furniture.

stefani cell E: THE "BATCH 1" PRODUCTION EXPERIENCE IN ITS SIMPLEST FORMAT

"Mass customisation" requirements are given an efficient response with **stefani cell E**, the new synthesis in flexible edgebanding cells that combine the advantages of a customised production and large volumes with a compact overall design and, above all, with an accessible investment even for SMEs.

- **Numerical control high technology in line with future market scenarios.** Type, colour, edge thickness, position and mortise depth, handling of the protective film and panel dimensions: the highly versatile **stefani cell E** allows you to continually feed-in and change all these parameters as part of the production flow without it being interrupted.
- **Simple, integrated and versatile: the multiple configurations available ("reloop with robot" or "reloop with motorised belts") mean all specific needs in terms of production and machining are met. Feeder, robot or additional movements can be combined to offer maximum flexibility.**
- Whether it be in self-learning mode, with Bar Code/QR code or with supervisor, stefani cell E is standard programmed for any level of logical and physical integration one wishes to set.
- **New automation to speed up business:** the new "**pickback**" **bridge system** for the automatic return of the panels guarantees simple, "just in time" production management. This way, the operator can focus solely on re-feeding the panels into the edgebander, as simply and ergonomically as possible.

Thanks to the stefani cell E, visitors to Ligna will have an opportunity to discover another important feature on the whole range of stefani edgebanders and squaring machines: the new generation rounding unit with power assisted technology designed to work with surprising continuity and quality even on the most delicate panels.

THE LATEST IN SOFTFORMING: stefani s

As part of SCM's edgebanding, considerable focus is also being placed on market demands in matters of **softforming** and "**JShape**", areas in which SCM has led the way for some time now as a genuine specialist in providing simple solutions that produce top quality results.

The new "**J-Side**" kit, in particular, has been designed to solve the problem of complex profiles so that the straight edging lines up perfectly with the shaped edging without gaps or projections. There is no longer any need to carry out this machining manually or with an additional procedure thanks to the new SCM solution. Everything is much simpler, faster and more efficient thanks to a new unit that can be fitted on a standard edgebander and completes all the essential stages for all-round edgebanding, even this "finishing". An edgebander equipped like this, **means that any kind of edgebanding requirement can be resolved while work continues**, without any interruption, exactly as though it were working on a normal straight edge. This is a significant step forward in being able to extend the creative potentials of softforming to a growing number of companies, a solution which is effective with any kind of edge and with different thicknesses that can be applied and worked without interruption.

These new features at Ligna will be integrated with the increasing number of requests for edged profiles (30°,45°,60°), both with thick and thin edging, which were confirmed as concept focuses at the last edition of the Milan Furniture Expo. Proof of the extreme flexibility offered by this edging range, capable of adapting to any requirement and modern design demand.

stefani s can be "custom" prepared and in line with the qualitative and performance requirements of the specific requesting company, both for traditional machining of straight panels as well as softforming. It can be used inside the edgebanding cell with automations for the return of the panel to the operator, devices for manual or semi-automatic feeding of the panel and devices for automatic loading. It can also be inserted in line with other machines. **stefani s** also guarantees maximum machining quality thanks to the best technology available in each area of the machine. AirFusion⁺, SLIM LINE, SGP glue pot, ZERO LOCK, NESTING LOCK are just some of the exclusive technologies that guarantee a top quality finished product.

stefani kd: surprising finishing quality, even on the most delicate surfaces

Automatic, productive, versatile, ideal for working on different kinds of panels, in large quantities and with maximum quality. **Stefani kd** goes on display at Ligna 2019 in an even more effective guise and with numerous exclusive advantages:

- possibility of **using two different glues** (Polyurethane and EVA) with an excellent joint line, thanks to the exclusive quality of the **SGP glue pot**
- continuous use and high quality testing on each kind of panel, even the most delicate ones, thanks to the **new upper presser with belt**
- surprising finishing quality and invisible joint line with panels as high as 60 mm, with the **AirFusion+** technology
- automatic set up and machining of the **two different radii** made with numerical control axes
- the range can have **new "fastback" panel return devices** that allow you to achieve maximum productivity and machining speed **up to 20m/min.** with just one operator. Indeed, these allow for the panel to automatically return to the edgebander loading area.

A perfect line of glue with olimpik k360

The **olimpik** range at Ligna presents the **new SGP-E glue pot**, complete with **pre-melting device**, and the **new RC-N glue scraper**, perfect for working on panels coming from the **nesting cycle**.

These highly innovative solutions can be tested on models on show for the **olimpik k 360** range, a point of reference **for artisan SMEs**, due to their **versatility, high machining quality and ease of use**.

These are the range's main strong points:

- SGP-E glue pot that allows you to work on panels with two different glues (EVA and Polyurethane) with a joint line that is always perfect and a speedy glue change
- **Pre-melting for EVA “QMS-P” glue that will always guarantee the best quality glue in the pot and optimal gluing**
- **RC-N glue scraper** that ensures ideal joint line cleaning, even on panels with holes for hardware, coming from **nesting** machining
- **Round 1**, for a perfect rounding of edges on straight and shaped panels. The operation is carried out automatically and fully, thus avoiding the need to carry out further finishing work.

Some of the other general advantages in the range include the **air cushion table** that can be placed at the entrance to the edgebander, ideal for large sized panels; the **new “fastback” device** that allows for the automatic return of the panel to the edgebander loading area; the **automatic set up** carried out with numerical control axes and edge machining with **two different radii** (solid wood up to 6mm and fine edge) made possible thanks to the “Multiedge” units.