

SCM's product range for timber construction and prefabricated houses expands further

More eco-sustainable production, shorter construction times and improved machining quality. These are the demands met by timber construction and the growing use of prefabricated houses. Sectors experiencing continuous development thanks to the numerous advantages which buyers and construction companies benefit from. It is no coincidence that the latest edition of Ligna 2023 is dedicated to prefabricated houses and eco-construction, one of its main focuses.

SCM has accompanied and supported the developments of the sector for decades with constant investments in R&D and a highly specialised range of solutions. A proposal which, as we can see from Ligna 2023, nowadays, is even more extensive and diversified. The Italian Group's new entries are enhanced by the technological solutions brought by **Randek**, a Swedish company and SCM partner in the supply of plants for the prefabricated-house industry.

OIKOS XS: MAXIMUM PRODUCTION SPEED FOR WOODEN STRUCTURAL ELEMENTS

SCM's OIKOS range is further expanded with OIKOS XS, a CNC machining centre characterized by speed of execution and high configurability, dedicated to the production of straight beams, prefabricated walls, trusses, roofs and blockhouses.

OIKOS XS is the most versatile model in the Oikos range, CNC machining centres for timber construction, suitable for both small and large companies looking for speed of execution but also production quality and flexibility.

OIKOS XS was designed to process structural elements requiring very simple operations such as cutting but also, elements characterized by more complex operations such as drilling, routing, wood-to-wood joints and hardware slots, on workpieces that can have a maximum length of 16 meters, a maximum width of 450 mm and a maximum thickness of 240 mm.

Why should a company that produces structural elements for timber construction choose OIKOS XS? What are the advantages of this new SCM machine?

SPEED OF EXECUTION

- Workpiece feed rates of up to 187 m/min;
- **Combined movements of the machining units that cut down unproductive time due to axis repositioning;**
- Maximum programming flow efficiency through the use of **Maestro beam&wall** software, specifically developed by SCM for the wood building industry.

COVERAGE OF THE 6 FACES OF THE WORKPIECE

- Several machining units strategically positioned within the work area, resulting in a high degree of configurability to meet every specific customer need;
- **Innovative 4+1 axes revolver unit with differentiated speeds for each tool** and equipped with a marking device that in combination with the one positioned on the saw blade unit allows marking on the four workpiece longitudinal faces.

MACHINING PRECISION

- **Extremely stiff clamping system for workpiece feeding, which arise from the experience gained on previous models in the Oikos range;**
- Horizontal and vertical pressure rollers placed close to the work area;
- Dynamic workpiece support system active during processing.

Like all SCM's CNC machining centres for timber construction, OIKOS XS is equipped with **Maestro beam&wall**, the proprietary software compatible with the most popular CADs design systems in the industry.

Programming freedom is guaranteed with Maestro beam&wall, as it allows programming both in the office via PC and directly on the machine via the **eye-M** multi-function, multi-touch operator console, complete with **Maestro active beam&wall**, the new human-machine interface that offers control and optimization of the production flow in an even simpler and more intuitive way.

The entire structure and all the parts of OIKOS XS CNC machining centre are the result of **SCM's experience with numerous customers**, owners of OIKOS range models. These are Italian, European, North American and Japanese companies who have taken up the challenges of the timber construction sector in which they operate and who, thanks to our technology, have achieved important results in terms of productivity and turnover.

DMC SYSTEM XL: NEW HORIZONS FOR CLT PANELS SANDING

SCM extends its many years of experience in sanding to the timber construction sector with a new project for machining CLT panels.

Dmc system xl is a solid, reliable and highly technological sanding-calibrating machine that offers configuration versatility and unification of the components and parts in common to optimise management costs.

This new solution is composed by a **solid steel structure** capable of machining the upper side of the **panels up to 3.700 mm wide and 500 mm thick**. Its strength is the **modularity** that for decades has been one of the most popular advantages of Dmc sanding range.

SCM has engineered **three modules** (roller unit, pad unit and crossbelt unit) **that can be combined with one another** based on specific production requirements. Moreover, at a later date, the customer will be able to add further units to the selected configuration, achieving an efficient integration between machines, controls and electrical panels.

At the planning stage, **top-quality materials and components** have been chosen to last long and withstand the most intense machining. Furthermore, the heart of the Dmc system xl technology was developed to **make the operator's maintenance work easy, fast and always safe**.

SCM's approach to CLT sanding is to help customers distinguish themselves on the market with **solutions aimed at improving the surface finishing** and increase the value of the finished product.

IN COLLABORATION WITH RANDEK

Building smarter, not harder: prefabricated solutions lead the way.

Technology has made one thing loud and clear for the prefabricating housing industry - if manufacturers want to have a stronghold in the Industry 4.0 revolution, it is imperative to incorporate technologies. Ahead of the race in the prefabricating automation industry is **Randek**, a pioneer in creating innovative automation solutions for its customers.

Here are some high-performance off-site machinery for the swift production of walls, floors, ceilings and roof trusses efficiently and cost-effectively.

ZEROLABOR

Robot system for high-efficiency production of wall elements. The system is compact and can be configured and integrated into production lines. CAD/ CAM controlled.

AUTO WALL

Advanced system for the production of open or closed wall elements. Top-level automation with record capacity. CAD/CAM controlled.

AUTO FLOOR

Advanced system to produce floor elements, floor cassettes, roof ceilings and roof elements. CAD/CAM controlled.

AUTO EYE

System developed for automatic production of roof trusses. The system combines high capacity with industrialized quality. Automatically picks, places, positions and presses the nail plates to the roof truss. Possible to produce different truss sizes and shapes. CAD/CAM controlled.