

International Holzbau Forum (IHF), SCM innovations for constructions beyond any challenge

In the spotlight, at IHF 2023, the new OIKOS XL+ and OIKOS XS cnc machining centres respectively dedicated to the production of structural elements and prefabricated walls, as well as the new DMC SYSTEM XL sanding-calibrating machine for CLT panels processing.

SCM is taking part in the 27th International Holzbau Forum (IHF) to be held **from 29 November to 1 December in Innsbruck (AT)**, in line with the Italian Group's strong and constant commitment to the growth of timber construction industry. In fact, thanks to the continuous development of advanced solutions and the expertise of a highly specialised team, SCM aims to be an **all-round partner** for professionals operating in this market, supporting them in every application requirement and in the most complex construction challenges.

The event represents the culmination of a path that, passing through the various editions of Forum Holzbau, has fostered numerous opportunities for exchange and networking between SCM and the entire "green building" supply chain. A journey into the future of eco-sustainable construction, which began in March with the first stop in Vilnius and continued all the way to Innsbruck.

At IHF 2023 there is the opportunity to learn more about the latest SCM innovations for the production of columns, beams, walls and other structural elements, as well as the sanding of CLT panels.

OIKOS XL+ is PLUS PERFORMANCE!

The most recent result of this high-tech itinerary is OIKOS XL+, the new CNC machining centre for the production of **structural columns with a max. cross-section of 1250x610 mm**.

This new solution has been conceived starting from the characteristics of OIKOS XL, a machining centre chosen by leading companies both in Europe and North America. OIKOS XL+ has not only inherited all its advantages but amplifies them, thanks to the implementation of a **second independent machining unit with a 1150 mm diameter saw blade**.

In line with the increased expansion of multi-storey wooden buildings globally, the new cnc machining centre has been designed to overcome even the most complex challenges.

The robust and adequately sized structure of the machine means **very heavy elements of up to 4 tons** can be processed, as well as very hard materials.

Flexibility is another key point, in fact any operation on any side of the work piece can be performed with no need of repositioning, thanks to the innovative 6-axis architecture of the main machining unit.

Productivity and precision are other primary requirements that are the basis of this model. The second 5-axis saw blade unit allows to execute **notches for hardware with a maximum depth of 400 mm**. Furthermore, the use of a saw blade rather than a chainsaw aggregate means to work faster and achieve a better quality.

Another advantage is the ability to execute **cuts from bars with a maximum thickness of 610 mm**. Decisive is the machining strategy behind the OIKOS XL+, which combines the second saw blade unit with the main machining unit that mounts a 740 mm diameter saw blade.

As with all SCM cnc machining centres for timber construction, OIKOS XL+ has **Maestro beam&wall**, the proprietary software compatible with the most popular design CADs in the industry.

Programming freedom is guaranteed, as Maestro beam&wall allows programming both in the office using a PC and directly on the machine from the upgraded **eye-M top plus** operator console, complete with **Maestro active beam&wall**, the new human-machine interface offering a simple, intuitive control and an optimisation of the production flow.

OIKOS XS is EXTRA SPEED!

Among the latest solutions developed by SCM is the OIKOS XS, cnc machining centre characterized by speed of execution and high configurability and dedicated to the production of **glulam and solid wood beams, prefabricated walls, trusses, roofs and blockhouses**.

OIKOS XS is the most versatile model in the Oikos range. It 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 work pieces that can have a maximum length of 16 meters, a maximum width of 450 mm and a maximum thickness of 240 mm.

The **speed of execution** is one of the main advantages, because the work piece feed rates can increase up to 187 m/min. **Combined movements of the operating units** cut down unproductive time due to axis repositioning. Furthermore, the use of SCM's **Maestro beam&wall** software allows to achieve the maximum programming flow efficiency.

OIKOS XS enables the **coverage of the 6 faces of the work piece**. Several operating units strategically positioned within the work area, resulting in a high degree of configurability to meet every specific customer need.

Another plus is the **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 work piece longitudinal faces.

OIKOS XS also stands out for its **machining precision** thanks to extremely stiff clamping system for work piece feeding, horizontal and vertical pressure rollers placed close to the work area and the dynamic work piece support system active during processing.

DMC SYSTEM XL is BUILT BIGGER TO WORK HARDER

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.

We have 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 and coherent 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.

Scm Group is a global leader in technologies for machining a wide range of 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, with a turnover of 850 million Euro, with 4,000 employees and a direct presence on all 5 continents.

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