

The latest SCM innovations for timber construction at the Forum Holzbau events

SCM will illustrate its vision of the future in the industry, by presenting its new cutting-edge technologies: OIKOS XL, AREA XL, AREA X and DMC SYSTEM XL

*Forum Wood Building Baltic: Vilnius, 30-31 March
Forum Bois Construction France: Lille, 12-14 April
Forum Holzbau Polska: Warsaw, 25-26 April
Forum Madera Construcción España: Pamplona, 1-2 June
Forum Holzbau Deutschland: Berlin, 4-5 July
Forum Wood Building Nordic: Vaxjo, 28-29 September
Forum Legno Edilizia Italia: Lazise, 10-11 October
Europaischer Kongress: Cologne, 17-18 October
International Holzbau Forum: Innsbruck, 30 November 1-December*

SCM confirms its participation in **Forum Holzbau**, the most important global initiative dedicated to timber construction. On 30 and 31 March, the travelling exhibition will arrive in the Lithuanian capital **Vilnius** for its first event in 2023: **Forum Wood Building Baltic**. For the occasion, the Italian group, leading in the production of secondary woodworking technologies, will join the numerous key figures in the supply chain - planners, designers, builders and machinery suppliers - to bring its vision of the future of "green" building and map out routes and strategies for the development of this constantly evolving market.

SCM will participate in the Vilnius Forum, as well as in most of the other Forum Holzbau events to follow throughout the year in France, Poland, Spain, Germany, Sweden, Italy and Austria. Forum Wood Building Baltic will be the first occasion to discover, together with the SCM team, the innovative technological solutions of the Italian Group: the highly flexible and precise CNC machining centres **Oikos XL** for glulam beams and columns, **Area XL** for large format CLT panels, **Area X** for CLT panels and curved glulam beams and the highly modular sanding-calibrating machine for CLT panels **Dmc system XL**.

OIKOS XL AND AREA XL:

CUTTING-EDGE TECHNOLOGY TO BUILD THE FUTURE OF TIMBER CONSTRUCTION

Oikos XL is the new "extra-large" version of Oikos X, SCM's innovative 6-axis CNC machining centre for timber construction. It was designed to produce **large-sized glulam beams and columns with a maximum section of 1.250x610 mm**.

One of its main advantages is the **automatic management and processing of very heavy elements**, thanks to a sturdy mechanical structure and reliable locking and handling systems.

The unique feature remains the **6-axis technology**, which allows the machining on all six faces of the element with all tools available and with no rotation or repositioning required.

Power and flexibility together with **perfect quality of the finished elements**, thanks to machining accuracy and special anti-scraping devices.

Area XL is the SCM's 5-axis CNC machining centre specifically designed for the **industrial production of large format CLT panels**. Elements of sizes up to **3.600x400 mm** can be processed, thanks to a powerful and high-performance machining head unit - **63 kW in continuous operation** - that allows heavy duty stock removal with extreme ease, even using very heavy tools.

High productivity rates can be achieved by equipping the machine with a **second machining head unit**, capable of executing several operations simultaneously. Besides, the **integration into**

automated CLT panels production systems is possible by means of a special roller worktable. A wide choice of tools and aggregates, **up to 60 tool stations in total**, allows to carry out any type of project by choosing the right configuration. Optional auxiliary units allow **transversal throughfeed-drilling** even on the maximum panel size. Moreover, increased efficiency and reliability are guaranteed by **workpiece handling and referencing systems** and **innovative cleaning systems**.

AREA X, THE NEW CNC MACHINING CENTRE WITH MOBILE GANTRY-TYPE STRUCTURE FOR THE TIMBER CONSTRUCTION INDUSTRY

Excellent machining quality and maximum reliability: these are the advantages of the new Area X model dedicated to timber construction. It makes possible to produce **finished elements, ready for assembly at the work site**, as well as to **zero downtimes** caused by any problems.

It positions itself at the centre of the SCM's 5-axis CNC machining centre range with a mobile gantry-type structure and PRO worktable for **CLT wall, floor, ceiling elements** as well as **curved beams**. This solution allows processing of elements **up to 3.600 mm wide and 360 mm thick, while the length can reach up to 36 m**.

The **PRO version worktable** is the key feature of this new model. **The high level of configurability comes from the availability of five different bases (from 16.000 to 36.000 mm)** that can be fitted with automatic systems for work piece reference and locking, together with innovative cleaning systems for the work area.

Area X can have a simpler worktable for a stand-alone version or a more complete one for a version to be integrated into automatic production lines.

The **30 kW machining head unit** guarantees excellent performance even under heavy duty conditions and is supported by a specific suction system for dust-free operations.

The tool store can accommodate **up to 15 tools and/or special aggregates** to cover all possible operations: squaring, rebating, routing, drilling, nesting cutting, execution of sharp edges, slots and notches.

All SCM's CNC machining centres for timber construction are equipped with **Maestro beam&wall**, the proprietary software that allows **workflow optimisation and enhanced production flexibility**. By Maestro beam&wall, **programming is possible either on a PC in the office or on "eye-M" operator console directly on the machine**, leaving freedom of choice to the customer.

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.

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.

Deep-rooted technologies that look to the future, in line with the demands of an ever-expanding market.

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 production sectors, from furniture to construction, automotive to aerospace, and marine 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 about 4,000 employees and a direct presence in all 5 continents.

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