



The latest “XL” machines by SCM and Randek for multi-storey buildings will be presented at the International Mass Timber Conference

In response to the increase of tall wood structures transforming the world of skyscrapers and high-rise buildings in the North American market, SCM presents the new OIKOS XL and AREA XL solutions.

The occasion is also marked by the world premier with its partner Randek. Together the largest range of technologies for structural beams, columns, wall and floor elements in CLT and curved beams as well as wall building elements and roof trusses will be presented.

Portland, Oregon - 12-14 April 2022

SCM, global leader in technologies for wood machining, will once again present its vision for the future of green buildings at the **International Mass Timber Conference**.

The edition, scheduled for 12 to 14 April 2022 in Portland, will be heavily focused on **environmental sustainability** and **zero-impact construction**, which are increasingly driving the growth in the timber construction market in North America and Europe.

In the **United States** and **Canada** in particular, there has been an increase in the number of **multi-storey buildings** in wood, both for private and public buildings. This has also been due to the implementation by many states of the new International Building Code (IBC2021), that allows to realize wood buildings up to 18 storeys high. The trend of the sector is very positive, both for the use of mass timber, where it is expected on average a doubling of the number of projects every two years, as well as of other materials such as large format **CLT** (cross-laminated timber), **GLT** (glue laminated timber) for large beams and columns, and **DLT** (dowelled laminated timber) or **NLT** (nailed laminated timber), in particular for flooring.

In light of the trend, the SCM team will provide its contribution in terms of know-how and innovation, by illustrating its cutting edge cnc machining centres for specific production requirements. There is the **OIKOS XL, designed and manufactured for Glulam beams and columns with a section up to 1250x610 mm** and the **AREA XL, dedicated to large format CLT panels and curved beams with sections up to 3600x400 mm**.

SCM's solutions are the result of continuous research and development that has been ongoing for **seventy years**. In fact, SCM celebrates this anniversary in 2022. **Technologies with deep roots**, as the new campaign for SCM's Systems for timber construction states, that draw strength from our exclusive experience in developing advanced numerical control machining centres for the entire wood machining industry.

That's not all. The International Mass Timber Conference will mark the debut of SCM's new commercial partner **Randek**, the Swedish company known throughout the world for its high-performance innovative technologies for prefabricated houses. This global collaboration was established to offer the market **the widest range of solutions for structural beams, X-lam/CLT and prefabricated building elements**.

OIKOS XL: THE CLEAR ADVANTAGE FOR TIMBER CONSTRUCTION

OIKOS XL is the new “extra-large” version of OIKOS X, SCM’s innovative 6-axis CNC machining centre for the timber building industry.

The new OIKOS XL model is designed and manufactured 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 and with all tools available, with no rotation or repositioning required.

Power and flexibility go hand in hand with **great quality of the finished elements**, that are characterized by perfect surfaces and are ready for assembly on site, thanks to machining accuracy and special anti-scraping devices.

AREA XL: TODAY’S STATE OF THE ART TECHNOLOGY TO BUILD THE FUTURE

AREA XL is the 5-axis CNC machining centre designed and manufactured by SCM for the industrial production of large format CLT panels. This solution, which represents an evolution of the renowned AREA model, has been developed to meet the requirements of companies looking for **high productivity, accuracy and reliability**.

The processing of large format CLT panels is characterized by **heavy duty stock removal, process automation**, as well as **maximum cleaning of the work area**: The new AREA XL has been designed taking into consideration these specific requirements.

With this machining centre, size and thickness of the CLT panels are no longer a problem.

Elements up to 16,000x3,600x400 mm can be processed, thanks to a high-power operating unit: **63 kW** in continuous service.

The overall productivity can further be increased by adding a **second operating unit**, to perform specific operations in parallel with the first one. Another plus of the machine is the possibility to perform **transversal throughfeed-drilling** even on the maximum panel size with optional auxiliary units.

Moreover, AREA XL offers **up to 60 tool stations**, including two sawblades for each operating unit. The operator’s work is made even easier, thanks to the **automatic workpiece handling and positioning systems and innovative cleaning systems**.

And last but not least, AREA XL also allows to work in total safety, thanks to the full enclosure and a protected access system to the work area through laser barriers.

Further enhancing the performance of OIKOS XL and AREA XL is the innovative **Maestro beam&wall software**, developed by SCM: it offers flexible import of projects in .btl file format from the industry’s leading CAD systems and is constantly being enhanced with new functions, thus further improving the workflow.

RANDEK TECHNOLOGIES IN THE SPOTLIGHT

Randek are pioneers in creating innovative automation solutions for customers within the prefabricated house manufacturing industry and have developed and manufactured high performance machines and systems for prefabrication of walls, floors, ceiling, roof trusses, cut saws, butterfly turning tables and specialized machinery since the 1940s.

Today Randek is one of the world’s leading suppliers of high-performance machines and complete systems for effective house manufacturing.

ZeroLabor

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

Auto Wall System

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

Auto Floor

Advanced system for production of 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. For basically any shape of roof truss. CAD/CAM controlled.

Deep-rooted technologies that look to the future, in line with the demands of an ever-expanding Off-site 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 750 million Euro, with about 4,000 employees and a direct presence in all 5 continents.

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