

Great solutions for large-format constructions: SCM at the International Mass Timber Conference

The leading woodworking machinery manufacturer will present the latest solutions designed to meet the current requirements of mass timber construction, with particular reference to glulam structural beams and CLT wall and floor elements.

Portland (Oregon Convention Center) - March 31-April 2, 2026

Stand SCM: Hall A - booth 323

The **10th annual International Mass Timber Conference** is approaching, and SCM is set to join more than 220 exhibitors participating in the event.

The global leader in advanced machinery for the entire woodworking and timber construction industry, will share its know-how and innovation, by illustrating cutting-edge solutions. These technologies are designed in line with the growing demand for large-format wooden constructions in both North America and Europe with reference to glulam structural beams, columns, CLT wall and floor elements.

The SCM team will present its latest innovations starting from the new **Area GL** modular CNC machining center for processing both straight and curved glulam elements.

Also in evidence will be the new Celaschi XL double-end profiling machine and Area XL CNC machining center, advanced solutions specific for the industrial production of large format CLT panels. Both machines have been supplied to Timberlab, a leading U.S. company specializing in sustainable timber solutions.

The spotlight will also be on the CNC machining centers **Oikos XL / XL+** dedicated to the production of columns and structural beams and the highly modular sanding-calibrating machine **Dmc system XL** for improving the surface finishing of CLT elements.

TECHNOLOGY HIGHLIGHTS

AREA GL - modular CNC technology for straight and curved glulam elements

The new Area GL CNC machining center is the latest addition to SCM's range of timber construction solutions and is designed for processing **straight and curved glulam elements intended for public building roofs, multi-storey buildings and infrastructure projects.**

With a robust mobile-gantry structure and a **work area up to 5 meters wide and over 50 meters long**, *area gl* allows complete machining of all six faces of the workpiece without repositioning, using **suction supports for thicknesses up to 550 mm.**

Its modular configuration, with options for a fixed worktable or movable bar-worktable, ensures **maximum production flexibility**; a special **system of movable safety fences** ensures safe operation in pendulum mode, while still allowing easy access to the work area. Equipped with a 30 kW effective machining head unit, it guarantees **high performance, precision, and reliability** in the execution of large architectural projects, designed using the leading CAD systems in the industry.

AREA XL - state of the art technology for large format CLT panels

Area XL is the 5-axis CNC machining center for the industrial production of **large format CLT panels**. This solution is 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.

Area XL is designed taking into consideration these specific requirements. With this machine, 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 **crosswise 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/positioning systems and innovative cleaning systems. And finally, 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.

OIKOS XL / XL+ for great eco-sustainable challenges

Oikos XL+ is the new CNC machining center to produce **columns and structural beams with a max. cross-section of 1,250x610 mm.** This solution has inherited all characteristics of Oikos XL, a machining centre chosen by leading companies in North America, amplifying all its advantages, thanks to the implementation of **a second independent machining unit with a 1,150 mm diameter saw blade.**

In line with the increased expansion of multi-storey wooden buildings globally, Oikos XL+ 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 workpiece can be performed with no need for repositioning, thanks to the innovative 6-axis architecture of the main machining unit. Productivity and precision are the other primary requirements that are the basis of this model. The second 5-axis saw blade unit allows the use of a saw blade rather than a chainsaw aggregate, to work faster and achieve 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 has a 740 mm diameter saw blade.

These solutions, as well as all SCM's CNC machining centres for timber construction, are equipped with **Maestro lab beam&wall**, a powerful programming software developed by SCM, compatible with the most widely adopted design CAD systems in the timber construction industry. Fully integrated with the **Maestro active beam&wall HMI**, it supports programming both from the office PC and directly at the machine, enhancing **operational flexibility and overall efficiency.** Additionally, the machining centre is equipped with **SCM's IoT platform application** for real-time monitoring of the performance of connected machines.

Celaschi XL and Dmc system XL - advanced technologies for CLT panels

The International Mass Timber Conference will also be a chance to find out the the new **Celaschi XL** double-end profiling machine specifically designed to **optimise the production flow in CLT processing.**

It allows machining operations to be redistributed from the CNC machining centre to the profiling machine, guaranteeing **greater productivity and maximum precision in the rebating and squaring operations on CLT walls.**

Four 44 kW electrospindles per machine side deliver the power needed to perform notches and rebates in one pass, even on high-density elements. The **solid structure** and use of premium industrial components minimize vibrations, ensuring superior finishing quality. The **chain transport system** ensures smooth and precise feed, even for large-format and high-thickness panels. Celaschi XL is equipped with the **Maestro active square HMI software**, managed via the **eye-M PRIME touchscreen console**. The intuitive interface allows full control of the machine, simplifying programming and reducing operator training time.

Completing SCM's range of solutions for CLT panels machining is **DMC System XL**, automatic calibrating-sanding machine that with its modules can **process both top and bottom face of CLT panels up to 3.700 mm wide and 500 mm thick**. The **very high configuration versatility** of the machine is granted by the possibility to combine and integrate between **each other the bottom roller, top/bottom pad and crossbelt units**.

DMC System XL is conceived to last long and to withstand the most intense machining thank to its solid steel structure that grants zero-vibration.

Energy saving is a key issue, since the machine has been specifically engineered with an optimized design **for minimum compressed air consumption**. This solution aims at **improving the surface finishing** and **increasing the value of the finished product**.

Scm Group is a global leader in technologies for machining a wide range of materials – wood, aluminium, plastic, glass, stone, metal and advanced 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 nautical to plastic machining. Scm Group coordinates, supports and develops a system of industrial excellence, with highly specialised and integrated plants in Italy and other sites in Germany, the United States and Brazil with production dedicated to local markets. Scm Group has a turnover of 900 million euro, more than 4,000 employees and a direct presence on five continents.

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