

Great solutions for large-format constructions: SCM at Mass Timber+

SCM will present advanced technologies and integrated solutions for a wide range of timber construction applications, from timber frame to mass timber manufacturing.

*Philadelphia (Pennsylvania Convention Center)
October 6-8, 2026 – Booth 310*

SCM will take part in **Mass Timber+**, a key event for the mass timber industry, at the Pennsylvania Convention Center in Philadelphia from October 6 to 8, 2026.

Drawing on **more than 70 years of experience** in woodworking technologies and extensive expertise in timber construction, SCM will showcase its know-how and broad portfolio of advanced, scalable solutions designed to meet the evolving needs of manufacturers in North America and worldwide.

From traditional timber frame and glulam processing to mass timber and prefabricated construction, SCM supports manufacturers **throughout the entire production process, delivering solutions for a wide range of applications**. SCM delivers solutions tailored to production requirements, ensuring **greater precision, higher machining quality, increased productivity, and outstanding flexibility**.

At **Booth 310**, visitors will have the opportunity to meet SCM's team and explore the company's latest developments and application expertise for the production of **all types of straight beams, camber and curved glulam beams, CLT and engineered panels, light frame, trusses and prefab walls**.

Visitors can discuss their specific production requirements and discover how SCM's integrated technologies can support process optimization, digital integration and advanced automation across different timber construction applications.

TECHNOLOGY HIGHLIGHTS

Oikos XL+, Power, precision and flexibility for large-scale timber structures

Oikos XL+ represents the top range of SCM's **CNC machining centers for processing structural beams and columns with cross-sections of up to 1,250 × 610 mm**. Building on the proven success of Oikos XL, a solution trusted by leading timber construction companies across North America, the new model further enhances performance through the addition of **a second independent machining unit equipped with a 1,150 mm diameter saw blade**.

Designed to meet the growing demand for large-scale and multi-storey timber buildings worldwide, Oikos XL+ handles the most challenging structural applications. Its heavy-duty machine frame enables the machining of **extremely hard materials and timber elements weighing up to 4 tons**. Flexibility remains one of the machine's key strengths. The innovative 6-axis architecture of the main machining unit allows operators to perform any operation on any side of the workpiece without repositioning, reducing handling times and maximizing efficiency.

Productivity and precision are further enhanced by the second 5-axis saw unit, which uses a saw blade instead of a chainsaw aggregate, delivering **faster machining speeds, and superior finish quality**.

A further advantage is the **capability to perform cuts from bars with a maximum thickness of 610 mm**. The advanced machining strategy combines the second saw unit with the main machining unit equipped with a 740 mm diameter saw blade, delivering **outstanding versatility, accuracy, and productivity** for the most demanding mass timber applications.

Oikos XL+, as well as all SCM's CNC machining centers for timber construction, feature **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**, Maestro lab beam&wall supports programming from both the office PC and directly at the machine, enhancing operational flexibility and overall efficiency. Additionally, the machining center is equipped with **SCM's IoT platform application** for real-time monitoring of the performance of connected machines.

Topset XXL - sturdy and top performance moulder for timber construction

SCM Topset XXL is the automatic moulder and 4-side planer designed for the **straightening of glulam beams and large dimensioned parts** in solid wood.

The machine is available in 14 different compositions, allowing manufacturers to select the best configuration according to their needs. The **"HSK" spindles rotating speed up to 12.000 rpm** ensures excellent finish quality even at high feed speeds. The machine structure allows **operators to process workpieces with a maximum cross-section of 320 x 200 mm**, supporting a wide range of products. Quick set-up and optimal processing quality come from the **worktables with micrometric settings**, placed in front of each machining unit.

The machine is fitted with the **MOBILE PC** electronic control provided with **Maestro active 4-side** software, for the complete management of all machine functions, and the SCM's **IoT Solution** system that makes it "smart": the system analyzes and monitors machine data to increase productivity and reduce operational, power and maintenance costs.

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**.

The robust mobile-gantry structure and work area, which extends up to 5 meters wide and more than 50 meters long, allow Area GL to fully machine all six faces of the workpiece without repositioning. The machine uses suction supports to process workpieces with 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 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**. SCM developed this solution to meet the needs of companies seeking 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 addresses these requirements with a design focused on performance, efficiency and precision. 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, which performs 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, **with automatic workpiece handling and positioning systems and innovative cleaning systems**. And finally, Area XL provides a safe working environment through its full enclosure and protected access system to the work area through laser barriers.

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

Mass Timber+ will also provide an opportunity for visitors to discover the new **Celaschi XL** double-end profiling machine specifically designed to **optimize 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.

Visitors at the trade show can also explore DMC System XL, an automatic calibrating-sanding machine that, with its modules, can process both the bottom and top faces of CLT panels up to 3,700 mm wide and 500 mm thick, completing SCM's range of solutions for CLT panel machining. The **very high configuration versatility** of the machine is granted by the possibility to combine and integrate the bottom roller, top/bottom pad and crossbelt units.

DMC System XL delivers long-lasting performance and withstands the most intensive machining operations. The machine's solid steel structure provides 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 optimized design improves surface finishing and increases 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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