



At the International Mass Timber Conference the latest SCM and Randek solutions for multi-storey buildings

The two leading producers offer together the largest range of technologies for glulam structural beams, CLT wall, floor, ceiling elements as well as wall frames and roof trusses.

They will present the latest solutions designed to satisfy the current requirements for mass timber construction.

Portland, Oregon – 27-29 March 2023

A greater use of cross-laminated timber and other mass timber products is an innovative, disruptive, modern, and sustainable choice necessary for building in a fast-growing world. The **7th annual International Mass Timber Conference** (to be held from 27 to 29 March in Portland) starts from this premise, in order to explore and encourage the many advantages of eco-sustainable and green building.

Among **over 130 exhibitors**, conference attendees will be able to also meet **SCM**, global leader in advanced machinery for the entire woodworking industry, and **Randek**, known throughout the world for its high-performance systems for prefabricated houses. They will provide their contribution in terms of know-how and innovation, by illustrating their cutting-edge solutions for mass timber processing, designed in accordance with the trend of wooden **multi-storey buildings**, both in North America and Europe.

SCM team will present new CNC Machining Centres and Wide Belt Sanders manufactured for specific production requirements: **Oikos XL** for glulam beams and columns; **Area XL** for large format CLT panels; **Area X** with automatic worktable and integrated cleaning systems, designed for CLT panels and curved glulam beams; **Dmc system XL**, highly modular sanding-calibrating machine for CLT panels.

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 4’x24”**.

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 **12’x16”** 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 12' wide and 14" thick, while the length can reach up to 118'**.

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 52' to 118')** 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 greater 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**, meeting every company organisation and 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 solution that offers configuration versatility and unification of the components and parts in common to optimise management costs.

This new solution involves a **solid steel structure** capable of machining the upper side of the **panels up to 12.1' wide and 20" 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.

PREFABRICATION IN TIMBER FRAME CONSTRUCTION, MORE EFFICIENTLY THAN EVER

Randek has been a trailblazer in the development of cutting-edge automation solutions since the 1940's. Working with customers in the manufacturing of prefabricated buildings, our expertise lies in crafting high-performance off-site machinery for the swift production of walls, floors, ceilings, and roof trusses efficiently and cost-effectively.

ZeroLabor

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

Auto Wall

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

Auto Floor

An advanced system to produce 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. Possible to produce different truss sizes and shapes. CAD/CAM controlled.

Cutting-edge tech with roots that run deep, geared towards tomorrow's needs in sync with the burgeoning Off-site scene.

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.

Randek are pioneers in developing and manufacturing high-performance machines and systems for prefabricated house manufacturing. Randek leads the way in the innovation of production lines ranging from light automation to Robotic Zero Labor Systems. The production lines for prefabricated house manufacturing are not just the most automated in the world but are also the most flexible. Today, leading house producers in 40 countries are using Randek machines and systems, and it's continually growing.

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