

THE LATEST FROM SCM IN TIMBER CONSTRUCTION

The market of wooden buildings is constantly growing not only in Europe but in the rest of the world. Timber construction offers many advantages not only **economic but, most important, in terms of ecology and sustainability**.

Scm has placed its decade's worth of experience in the design and production of highly evolved and flexible machining centres at the service of the building industry, to create a new standard for processing wooden structural beams and modular wall elements.

High technology and innovation for timber construction with the new OIKOS X

Oikos x takes centre stage in this sector at Ligna 2019. It is SCM's new 6-axis machining centre for timber construction designed to offer the sector an increasingly technological and performing solution. It is dedicated to the processing of structural beams, X-lam/CLT wall panels and insulating panels and is the result of a careful R&D activity by SCM, which has always been a manufacturer of **cutting-edge solutions and highly advanced and flexible cnc machining centres**.

"Oikos x - **explains Tommaso Martini, BU Manager for the SCM machining centres for timber joinery** - applies the principles already widely tested on traditional SCM machining centres to the technologies for timber construction. It is the result of a process of change that involves both manufacturing partners, SCM for the timber construction machining centres and our customers, the companies who produce elements for the building industry. A direction that tends to increasingly improve both the quality of the end product as well as the production process".

Oikos x was designed with the aim of maximizing performance in terms of dimensions, dynamics and power. Fitted with a 13kW standard electrospindle (optional 25 kW), the machining centre allows machining of beams and panels with a maximum section of 1,250x300 mm and maximum length of 19,000 mm, with a weight of up to 4,000 kg.

High standard of precision and productivity

The perfect symmetry of the **new 6-axis machining head unit** is ideal for any kind of operation to be carried out on all work piece sides in a single positioning and in limited space, achieving high standards of precision and productivity.

The excellent ability of the self-centring clamps and pressure rollers to lock the work piece prevents sliding at the processing stage and subsequently increases the machine's level of precision.

Technological and "smart"

The new machining centre is also in perfect harmony with Factory 4.0 needs: indeed, it is enhanced with **Maestro beam&wall** software whose strong point is complete integration with the most common CAD systems in the building industry, and the new multifunctional and multi-touch **eye-M** operator panel which makes everyday work considerably easier. **Oikos x** offers a video surveillance system that allows the operator to monitor the entire process in real time and can also be integrated into the **Maestro smartech** glasses that revolutionise after-sales assistance thanks to augmented reality technology, providing customers with guidance from an SCM expert, at their side, no matter where they are in the world.

No more size or shape limitations with PMT, SCM's machining centre for large sized structural beams

At Ligna 2019, the SCM experts for timber construction are explaining the advantages of the **PMT** project, **a cnc machining centre dedicated to the processing of curved structural beams, even large sized ones.**

High level of configurability

PMT is a completely modular machine and can, therefore, be configured to meet customers' production needs. The single 5-axis machining head unit version, capable of achieving a power of up to 32 kW can further be equipped with a second saw blade unit, with 5 axes and 18 kW power; the presence of a dual machining head unit allows to maximise performances in terms of productivity.

The availability of up to 26 between tools and aggregates, including a saw blade with a maximum diameter of 1080 mm, allows to execute all specific operations of the sector.

High level of robustness

The advanced structural design guarantees the reduction of vibrations generated during high stock removal, leading to an excellent combination between machining quality and speed. The structure of tracks and main cross beam allows maximum processing precision even in the presence of very long X strokes.

Productive freedom

Extremely wide work areas that can be extended up to 8 metres in width and 80 metres in length mean the possibility of machining in single area or pendulum cycle. The worktable can be equipped with double vacuum suction cups to correctly lock the beams via manual positioning in complete freedom.

Maximum safety

The machining centre is used in complete safety, thanks to a protection system with strips curtains around the machining head units and the configurable perimeter fences with access doors on each side.

Programming freedom

PMT is a machining centre that can easily be programmed with the most common software packages used in this sector.