

“CNC TIMBER-EVOLUTION DAYS” SCM OPENS ITS DOORS TO THE WOOD CONSTRUCTION TECHNOLOGY OF THE FUTURE

12-13 October, Sinalunga

SCM, a leading company in the woodworking technology sector, will be presenting its latest technological innovations in timber construction at its production plant in Sinalunga (Siena) on the 12th and 13th of October.

These two days in Tuscany will offer a **full-immersion introduction to the advances made by the Oikos and Area CNC work centres**, both of which are ideal for companies working in the large-scale private, residential and public construction sector. The event is also the perfect opportunity to gain a first-hand experience of the constantly growing trend in timber construction. This is why we have called the initiative "CNC TIMBER-EVOLUTION DAYS", as it will focus on **the technological evolution that is currently revolutionising the concept and design of tomorrow's constructions.**

The decision to go back to building in wood is a positive trend that is shared by many countries around the world. And the reasons for it are well-known: wood has anti-seismic qualities, its style and beauty are matchless and it offers environmental sustainability, high safety standards and a reasonable price. At the same time, it is important not to overlook the fact that **if timber construction is becoming more popular, it is also because of the major advances that the technology in this sector has made.** And this is an area that SCM research and development has and continues to invest widely in.

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.

As a result, two important projects are born: **OIKOS, for machining structural beams and X-lam/CLT wall panels and AREA for machining walls, insulating panels and curved beams.** Two different machines that share the same design concept proper of all Scm machining centres.

Innovation

Both machining centres are fitted with **machining units specifically designed to maximise performance in terms of dimensions, dynamics and power.**

Six axes on the OIKOS machining unit to obtain a stiffer machine configuration and ensure high performance and productivity.

The AREA electrospindle features power up to 30 kW, to perform any type of operation with maximum stiffness in any condition and using either a sawblade up to 1020 mm in diameter, or a chainsaw with a cutting length of 480 mm. Maximum worktable dimensions are **4,5 m in width and 50 m in length.**

Precision

Oikos consolidates the **technology of 6 sides of the workpiece. Without having to turn over or**

reposition the beams, machining is achieved on components **with a maximum width of 1250 mm, thickness of 300 mm and length of 19 m**. This improves precision as the beam can go directly from the machine to the site without the need for any manual adjustment.

Area, thanks to the **innovative solutions employed in the supporting structure, allows extremely precise machining on elements longer than 50 metres**.

Flexibility

The unique configuration of Oikos married to the continuous development, allow the machine to be used for operations on special products, such as cutting **insulating or composite panels and threading lamellar beams**.

The new solutions developed for the Area worktable allow the complete machining not only of walls, but also of curved beams and thin panels. The former are processed on a suction cups-worktable whilst the latter use aluminium multifunction modules that can be integrated in the worktable itself.

Simple and quick to use

The success of machines for timber construction depends also by the effectiveness of the software that is developed and constantly updated internally to ensure it is in line with the design standards of wooden constructions.

Scm developed then **Maestro Beam&Wall** software, in order to achieve maximum speed and ease of use: **a single program that allows access to the programming, program execution and tool management environments**.

The Nesting function to process wall panels is now also available for Oikos: Maestro Beam&Wall can import .btl format files generated for nesting machining, in order to optimise the use of the material and reduce waste.

Order profitability

As with all Scm machining centres, Area and Oikos are both available with the **simulation software** included in Maestro Beam&Wall. The simulator makes it possible to test the programs in advance on PC and visualize the operations that will be performed during production, with obvious benefits for the customer:

- to eliminate collision risks, errors and downtime
- to calculate production time and cost, resulting in easy determination of the yield of acquired orders.

During the open-house, SCM will also present its **partnership with the DAD** (Department of Architecture and Design) at the **Turin Polytechnic**. This initiative is designed to create long-term cooperation between the worlds of academia and industrial production in order to develop increasingly high performance technologies.

The excellence of the Oikos and Area work centres is rooted in the long line of successes that the production plant at Sinalunga has enjoyed. It was here, in fact, in 1979 that Livio Tiezzi launched the production of one of the first CNC electronic routers and later the Routech trademark, too, that has been part of SCM's DNA since 1992.

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