

OIKOS - AREA

Innovative technology for machining wooden elements for the construction industry

The market of wooden buildings is constantly growing worldwide. Timber construction offers many advantages not only **economic but, most important, in terms of ecology and sustainability**. Scm dedicated its know-how 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 typical of all SCM machining centres.

Innovation

Machining units specifically designed to maximise performance in terms of dimensions, dynamics and power.

Six axes on the OIKOS machining unit ensure high performance and productivity, and **up to 30 kW power for the AREA electro-spindle** to perform any operation with maximum stiffness either using saw-blades up to 1020 mm in diameter and chainsaws with a cutting length up to 480 mm. Maximum worktable dimensions are **4,5 m in width, and 50 m in length**.

Precision

OIKOS consolidates the **technology of 6-workpiece-sides machining without having to rotate or reposition the beams with a maximum width of 1250 mm, thickness of 300 mm and length of 19 m**. This improves precision so that beams can go directly to the construction site without the need for any manual adjustment.

AREA, thanks to the **innovative solutions employed in the supporting structure, allows extremely precise machining on very long elements**.

Flexibility

The unique configuration of OIKOS allows several operations, such as cutting **insulating or composite panels and threading lamellar beams**.

The AREA worktable can be equipped to process panels of different materials.

Simple and quick to use

SCM Maestro Beam&Wall software permits to achieve maximum speed and ease of use: **a single program allowing access to the programming, program execution and tool management environments**. Besides, **SCM Maestro Beam&Wall can be easily interfaced with most CAD programs** used by customers, thanks to the import of BTL files, the most common format in the sector of timber construction.

Nesting function

The Nesting function to process wall panels is now available for both OIKOS and AREA, in order to optimise the use of the material and reduce waste.

Order profitability

The **simulation software** 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 time and cost of production.