

SCM presents “oikos xs 650” *“Cross the line to smarter productivity”*

“Oikos xs 650” is SCM's new 5-axis machining centre, specifically designed for the timber construction industry. An innovative solution that combines the high productivity performance of “Oikos XS 450” with the flexibility and processing quality of “oikos x”.

This “hybrid” model retains the feed system and numerous operating units of “oikos xs 450”, but also features a 5-axis machining head unit with a high-level tool store. Perfect for machining all six faces of the beam with no need for repositioning, “oikos xs 650” ensures speed and precision in a single pass, optimizing production time.

From Mass Timber to Smart Timber

The modern carpenter faces increasingly complex challenges, responding to market demands ranging from cost-effective frame production to the creation of exposed roofs and Glulam beams with high precision standards. With the “oikos xs 650”, SCM introduces a “smart” machine designed to meet these needs: **a unique mix of versatility, high productivity and superior finish quality**, all in a compact format and at a competitive price.

Key features:

- **High productivity**, thanks to the full-stroke clamp and the numerous operating units moving in synchrony, ensuring unparalleled efficiency.
- **Superior versatility**, with a 5-axis machining head unit and an automatic tool store compatible with tools and aggregates, allowing processing of all six beam faces. The **patented laser probe** ensures exclusive precision, particularly in dovetail joints and assembly phase.
- **Machining capacity** up to 650 mm on the Y-axis and 310 mm on the Z-axis, providing great flexibility for large-scale operations.
- **Compact and functional design:** With a footprint of just over 6 meters in depth, “oikos xs 650” is designed to occupy reduced space while maintaining high performance. The operator console is positioned on the cabin, and the rear conveyor requires no masonry work. The height is just over 4 meters, and the full coverage helps reduce noise and improve dust protection.

“oikos xs 650” is the ideal solution for companies that need an intelligent machine - **perfect for high-productivity operations such as frame elements processing, while also delivering excellent finishes on exposed roofs or creating Glulam beams with great precision.**

All CNC machining centers in the Oikos and Area ranges are equipped with **Maestro lab beam&wall**, SCM's programming software, developed on the new CAD/CAM “Maestro lab”, compatible with the most widely used design CAD systems in the timber construction sector. Fully integrated with **Maestro active beam&wall** HMI, it allows programming from both the office PC and directly on the machine, enhancing flexibility and efficiency. Additionally, the machining centre is equipped with **Maestro connect**, SCM's IoT platform application for real-time monitoring of the performance of connected machines.

With “oikos xs 650”, SCM reaffirms its commitment to innovation and production flexibility, offering cutting-edge technological solutions for a wood industry that is increasingly efficient and eco-friendly.