

## New “area gl” Modular CNC technology for straight and curved glulam elements

SCM continues to expand its range of solutions dedicated to timber construction and introduces, at the 2026 Open House, *area gl*, the innovative 5-axis CNC machining centre designed for the production of straight and curved glulam elements intended for public building roofs, multi-storey structures, and infrastructure projects.

Derived from the evolution of the well-established *area* model, the new *area gl* has been developed specifically to meet the needs of glulam production, incorporating customer feedback and requirements. The growing demand for high-precision straight and curved beams has made it essential to offer a solution capable of handling complex machining tasks with increasingly high productivity levels. In this context, *area gl* stands out clearly from other models on the market thanks to two key features: **high productivity in pendulum mode and six-side machining, which drastically reduces the need for tilting the workpiece.**

Equipped with a solid mobile-gantry structure within a safety enclosure and **a workspace up to 5 metres wide and over 50 metres long**, *area gl* provides superior versatility enabled by its unique flexible worktable concept:

- **Fixed worktable** mode, optimised for complete six-side machining using vacuum supports and for **thicknesses up to 550 mm**;
- **Movable-bar worktable** mode, ideal for hybrid production that includes **panels and beams up to 400 mm thick**.

This modular configuration, combined with a dedicated system of mobile fences, **enables pendulum machining** while ensuring maximum safety and easy operator access to the work area. The result is **extremely high production flexibility, allowing rapid adaptation to different application requirements.**

*area gl* is equipped with a **powerful 30 kW (S1) machining head unit**, compatible with large tools and aggregates, ensuring high-level performance, precision, and reliability even in the most demanding operations.

Among the most innovative features is the dedicated **aggregate for lower-face machining**, which drastically reduces the need for tilting the workpiece. The **combined laser system** ensures fast and precise referencing, further accelerating the entire process. The **integration of the 1,100 mm sawblade with the mortising unit featuring centralised lubrication** makes it possible to perform **high-precision mortises with an effective radius of 400 mm on each side**, enabling joints of any length.

On the digital front, *area gl* is equipped with **Maestro lab beam&wall**, the programming software of the new Maestro lab CAD/CAM platform, fully compatible with the main CAD systems used in timber construction. Integrated with the **HMI Maestro active beam&wall**, it offers a highly customisable experience, significantly enhancing operational flexibility and workflow efficiency.

The machining centre is also **IoT Solution Ready**: simple and secure connection to the company's digital ecosystem is possible, offering real-time performance monitoring and continuous analysis of operating data. This setup is designed to support predictive maintenance, optimise production output, and enhance informed decision-making.

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