

## MACHINING CENTRES FOR DRILLING, ROUTING, EDGEBANDING AND NESTING

The undisputed star of Holz-Handwerk is **Maestro integrated software suite** which includes various modules developed to meet the customer's needs in present and future times, thus confirming once again SCM constant focus on the market.

Among these modules **Maestro cnc is the one** developed entirely by SCM to ensure an easy, intuitive and effective programming of the machining centres and CNC drilling machines.

### ALL-IN-ONE TECHNOLOGY

#### **morbidelli m100/m200**

**morbidelli m100** and **m200** machining centres for drilling and routing are a **revolution** for the whole business sector and the answer to all woodworking requirements identified through an in-depth analysis of the market needs.

One of the main reasons of their success is **Maestro CNC** software that is able to satisfy multiple needs thanks to its applications:

- **Maestro apps**, a dedicated library with easy pre-programmed functions which allow a sensible time saving during the workpiece design and a quicker and more efficient production;
- **Maestro nest**, designed to manage “nesting” process from simple “rectangular” workpieces to the most varied and complex “free form” geometrical shapes;
- **Maestro cabinet**, perfect for an effortless and intuitive production of furniture elements;
- **Maestro 3d**, excellent for three-dimensional models programming, both on 3 or 5-axes machining centres; it is equipped with powerful CAD tools for an easy and quick management of the single part, even in case of complex surfaces to be machined.

**morbidelli m100/m200** “ALL-IN-ONE” technology machining centres are able to meet the requirements of companies manufacturing furniture, soundproofing panels, acoustic boxes and nautical products.

In few words so many advantages:

- **freedom, accessibility and safety**: morbidelli m100/m200 design allows operators to load and unload large sized panels in total freedom and safety; it is possible to load panels **up to 2,200 mm width and 250 mm thickness**. Through **PRO-SPACE** version, the operator can easily and ergonomically access to the machine thanks to the absence of tubes, connections and fences on all its sides. The vacuum pump is positioned directly inside the machine frame;
- **absolute flexibility due to a unique configuration** through which up to four operating units can be equipped, including a dowel insertion device with glue pearls;
- **unmatched finishing quality thanks to the ultra-compact Prisma KT/KS 5-axis electrospindle** which stands out for excellence in its market segment;
- **drastic reduction in tooling time** with **FAST 14** system: tools can be replaced in less than 15 seconds. This is possible thanks to the 14-position tool changer installed on the mobile unit. These machines can host up to 60 tools to satisfy any type of product manufacturing;

- **60% saving in drilling cycles:** an outstanding result achieved thanks to drilling heads configuration, specifically designed to perform any machining pattern on any type of furniture element;
- **reduced maintenance operations:** the **RO.AX** (Roto-axial technology) spindles are able to operate maintenance-free for over 1,000 hours;
- **high configurability options**, in order to satisfy any customer's need thanks to TV FLEX or TV FLEXMATIC worktable.

## HIGH QUALITY EDGEBANDING morbidelli p200

**morbidelli p200** with the integrated **Maestro edge** module is one of the most high performant and easy-to-use machining centre and the best solution to optimize routing, drilling and edgbanding processes. This module guarantees unmatched performances and a **considerable machining time reduction**.

Extremely compact, **morbidelli p200** stands out for an unbeatable price/quality ratio. It represents the "sequel" of morbidelli's "ALL-IN-ONE TECHNOLOGY" range.

Unique advantages on this new generation:

- **compact and reliable edgbanding unit** which allows the edge application up to 84 mm high for panels up to 80 mm thickness;
- **space optimization in the factory thanks to the PRO-SPACE solution** without external safety fences, optimising the company's logistics and allowing the operator to move around the whole machining centre;
- **flexibility and innovation** thanks to **HE-PODs**, the 3D work table; the alternate lifting of single workpieces during machining operations allows a **single panel positioning** and no subsequent displacement. This solution allows to take advantage of the whole working area with a cycle time reduced by 30%.

## CUSTOM NESTING TECHNOLOGY FOR FORWARD-LOOKING CUSTOMERS morbidelli n100

The model is considered one of the most complete machining centre in its category thanks to its highest standards of quality, flexible configurability and precision.

Extremely easy-to-use, thanks to **Maestro nest** module which allows the entire nesting process programming from the design phase to the single workpiece labeling.

**morbidelli n100** machine means:

- **"H.E." (High Efficiency) work table that guarantees the perfect hold-down of small and large parts:** sturdy, practical and non-deformable over time thanks to the laminated aluminium structure. Easy and fast setting with the magnetic vacuum locking system: in few seconds the vacuum is activated only in the piece positioning area;
- **space optimization and maximum flexibility with PRO-SPACE version:** the absence of external safety fences allows the work table access on all sides of the machine;
- **available** in stand-alone, half-cell or whole cell **versions**.

## **MAXIMUM TECHNOLOGY IN LESS THAN 10M<sup>2</sup> morbidelli cx200**

**Maestro cnc** simplifies machining operations and optimizes cycle time even on **morbidelli cx200**, due to its ability to process different types of materials (MDF, chipboards, panels with delicate finishes, etc.) on small sized to large sized parts, as well as easily carrying out any type of machining process.

Notably for this drilling centre, **Maestro cabinet** module is ideally suited to program home and office furniture modules. This specific software allows new cabinet models to be designed and produced, as well as customized in terms of dimensions, components, materials, joints and machining operations.

**morbidelli cx200** is an **extremely compact** CNC drilling centre. It is designed to perform upper and side drilling operations, blade cuts and vertical routing ensuring maximum productivity in batch "1" productions. This machining centre is equipped with the innovative **Ro.Ax. roto-axial technology**, entirely developed by SCM, which increases the drilling quality, the precision and the productivity as a result of the improved spindle's stiffness. The maximum rotation of 8000 rpm and the innovative inverter on the drilling heads ensures greater penetration speed in the material. The machine features the lowest cycle time of any other competitor in the market as a result of the double clamp and two independent drilling heads that optimize any drilling pattern and the 6,6 kW 24.000 rpm electrospindle with 6-tool changer.