

Novelties regarding Machining Centres for Drilling and Routing, Nesting and Edgebanding

At Ligna 2017 exhibition, SCM presents its novelties regarding machining centres for drilling and routing, nesting machining centres for drilling and routing, machining centres for drilling-routing and edgebanding and CNC drilling centres representing a revolution for the entire industry.

Morbidelli p800/p200 THE NEW STANDARD IN CNC EDGEBANDING

After the success achieved in 2016 by the **morbidelli p800** model, this year SCM presents the new **morbidelli p200**, characterized by the same features of the previous model and with an unrivalled price/quality ratio.

Both machines are ideal to optimise the profiling and edgebanding operations of the most disparate types of edges in the same program.

The edgebanding unit, **revolutionary in its sector**, allows on the **morbidelli p800** the automatic change of the pressing system and guarantees the fast and easy application of plastic and wood edges, as well as soft-forming machining operations, thanks to the **MAESTRO EDGE** software, which optimises all the machining phases and guarantees maximum productivity levels.

The pressing system can be replaced while machining, without stopping the machine, to load the most suitable system for the type of edge being applied or shape being executed. Even wooden or soft-forming edges, which are notoriously difficult to manage on a machining centre and that used to require manual operations or special machines, can be handled with superior machining performance levels and time savings.

The possibility of profiling minimal radii also inside the work piece at high quality levels makes **morbidelli p** series, the highest performing machining centres on the market, designed with all the solutions to meet the client's future requirements.

Additional technological benefits of the range:

- **5 times more productive** with the work tables that reduces set-up times to switch between machining operations.
- **Zero limits** to the shapes that can be machined thanks to the routing solutions with independent and interpolating **4** and **5** axes with **continuous 360° rotation**. Production costs are 20% lower, with the **10** and **18 positions tool holders** installed directly on the machine, as the tool replacements no longer affect machining times.
- **Zero compromises** in the edge application with different thicknesses on the same panel. The edge feed system automatically and effectively adjusts to all edge thicknesses.
- **Zero defects**. Perfect edgebanding on complex profiles with the new gluing unit, which applies the glue directly on the edge and an exclusive glue roller with integrated heating element to guarantee gluing uniformity in any condition.

- **Machining any type of edge in any situation.** The **numerical control Z axis** allows the adjustment of the lower projection of the edge in relation to the work table to centre it in relation to the panel, for example, to use dust cover edges. The automatic adjustment of the height of the edges feed system reduces unproductive times to zero, machining in batch "1". Utmost flexibility is ensured by the edge storage that can hold up to 12 different edges.

Morbidelli m100/m200 ALL-IN-ONE

TECHNOLOGY

The **morbidelli m100** and **m200** machining centres revolutionise the entire industry. These models provide answers to all the problems associated with woodworking and with processing advanced materials; a solution that has been developed to provide a comprehensive answer to requests coming from the market.

The new range features an "**ALL-IN-ONE TECHNOLOGY**": a single machining centre can now provide a solution to the needs of companies and workshops that produce furniture, sound-absorbing panels and speakers, marine products and many more complex products.

The benefits offered by the revolutionary **morbidelli m100** and **m200** machining centres are plenty:

- **More free floor space in the plant.** The absence of perimetral protections offer a better use of production floor and operators can move 360 degrees around the machining centre. The PRO-SPACE solution provides big savings in terms of floor space and optimises industrial logistics.
- **Freedom, flexibility, accessibility and safety.** The design of the new machining centres allows operators to load and unload large panels safely and freely. It is possible to load panels of up to 2.200 mm wide and 250 mm thick. Operator access, and consequent ergonomic benefits, is ensured by the absence of pipes and obstacles on all sides of PRO-SPACE machines, where even the vacuum pump is mounted directly on the machine baseplate.
- **Absolute flexibility thanks to a configurable operator unit.** **morbidelli m100** and **m200** have no match among other machining centres on the market because their operator units are the only ones that can accommodate up to four machining units, including a device for inserting dowels using pearl glue.
- **Unmatched finishing thanks to a 5-axis spindle head.** Ultra-compact and direct-driven, the **JQX** (Just Quality eXtreme) electrospindle stands out for excellence in its market segment.
- **Drastic reduction in tool-change times.** Thanks to the **FAST 14** system, tools can be changed between jobs in less than 15 seconds. A solution made possible thanks to a 14 position tool holder mounted directly on the rotating unit which, together with the other machine tool holders, can provide up to 60 additional tools for product manufacturing.
- **60% savings in drilling cycles.** An outstanding result that has been achieved thanks to a drilling head configuration designed to perform any kind of job on any type of furniture of any style.
- **Reduced maintenance.** The RO.AX (Rotoaxial spindle technology) spindles operate maintenance-free for over 1.000 hours – another feature that demonstrates how unique the new machining centres are in their category.

- **No downtime for set-up operations.** Adding the **TV FLEXMATIC** work table allows automatic positioning of support bars and vacuum pods even while the machine is running. The possibility of simply and easily adding all the required vacuum pods and removing those that are unnecessary makes the work table a solution that does not compromise performance, thanks to its versatility and free configurability.
- **Easy and intuitive use of the machining centres.** Operating the machine is extremely easy, using an APP from the MAESTRO Suite software: setting-up the job and production cycles has never been easier. You can use a PC-Office console with a 17" LCD display or a remote TECPAD control with which you can remotely operate the machine using its 7" touch-screen to speed up set-up operations.
- **Extremely fast installation.** Only one technician and one working day are required to get the **morbidelli m100** and **m200** machining centres ready and operational. It is another advantage when it comes to maximising productivity and to making the winning machining centre choice.

The **morbidelli m** series of machining centres for drilling and routing offers all the best technological know-how from the SCM brand through highly productive and flexible machining solutions giving many capabilities to adapt to the different industry-standards required by the manufacturing environment.

Morbidelli pwx100, Morbidelli cx200, Morbidelli cx100 SCM SOLUTIONS FOR DRILLING WITHOUT LIMITS

In line with its illustrious tradition SCM presents its latest drilling machines. Essential for the modern woodworking industry in order to meet the demands of industrial productions as well as small artisanal productions, they all maintain their renowned high quality standards. They all guarantee: **efficiency, productivity and reliability.**

Morbidelli pwx100

morbidelli pwx100 is the drilling machine which guarantees production ranges **up to 28 pieces per minute**, thanks to its high level of customisation and electronic automation. Extremely fast set-up times (from 5 to 20 seconds) of the 12 machining heads, over 382 independent spindles, program changes in just a few seconds and an axes positioning speed of 80 m/min: **morbidelli pwx100** is the best solution available on the market today, to **handle small batch orders economically and efficiently.**

Morbidelli cx200

morbidelli cx200 is the vertical machining centre designed to handle all the **drilling and routing operations in less than 10 m²**. The shortest cycle times of any of its competitors on the market thanks to the two drilling heads with RO.AX technology, independent spindles that optimise any drilling layout, a powerful electrospindle and a tool holder with automatic tool change make it the ideal solution for companies that require a simple high technology machine to **manage batch "1" orders with high productivity levels.**

Morbidelli cx100

morbidelli cx100 is the drilling machine with reduced overall dimensions. Developed from the long-term experience of Cyflex, it performs drilling, grooving and vertical routing machining.

Reliability and flexibility, reduced maintenance of the drilling unit (recommended only after more than 1000 hours of work), **short machining cycles** and **zero idle times** for set-up operations.

Total freedom in the processing of different types of materials (MDF, chipboard, lacquered panels, etc.) and small sized panels; today its performance levels have been increased further with the MAESTRO Suite software.