

THE LATEST SOLUTIONS FOR BORING, ROUTING AND EDGE-BANDING MACHINING CENTRES

Morbidelli presents a world exclusive at Xylexpo: the latest edgebanding unit, installed on the **Planet P800**. Other adding news: the automatic **TV FLEXMATIC worktable** on the Author M series and the outstanding performances of the boring solutions **Cyflex and Powerflex**. The **Scm Pratix S** machining centre for nesting process will be part of the cells integrated system for high flexibility.



PLANET P800 THE REVOLUTION IN CNC EDGE-BANDING

Morbidelli presents a **world exclusive**: the **latest edgebanding unit, installed on the planet p800**. The new unit optimises profiling and edgebanding operations of the most disparate types of edgings in the same program.

The new device, **revolutionary in its sector**, installed on a boring, routing and edgebanding centre, allows for the automatic change of the pressure and guarantees the fast and easy application of plastic and wood edgings, as well as softforming machining operations, thanks to the **MAESTRO EDGE** software, which optimises all the machining phases and guarantees maximum productivity levels.

The pressure system can be replaced during machining, without stopping the machine, to load the most suitable system for the type of edging being applied or shape being executed. Even wooden or softforming edging, which are notoriously difficult to manage on a workcentre 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 minimum radiuses also inside the workpiece at high quality levels render **planet p800**, the highest performing workcentre on the market.

Planet P800, with Morbidelli technology, is the work centre designed with all the solutions to meet the client's future requirements. ***We have designed and made available today what you will need tomorrow.***

Additional technological pluses of the PLANET P800:

* **5 times more productive** with the *Matic worktables* that require setup times of 4" to switch between machining operations.

* **zero limits** to the shapes that can be machined with the routing solutions with **4** and **5** independent and interpolating **axes** with **continuous 360° rotation**. The production costs are lowered by 20%, with the **10** and **18 positions magazines** installed directly on the machine, as the tool replacements no longer affect machining times.

* **zero compromises** in the application of edgings with different thicknesses on the same panel. The edging feed system automatically and effectively adjusts to all edging thicknesses.

* **zero defects**, *perfect edgebanding on complex profiles* with the new gluing unit, which applies the glue directly on the edging and an exclusive **glue roller with integrated heating element** to guarantee gluing uniformity in any condition.

* **machining any type of edging in any situation**. The **numerical control Z axis** allows for the adjustment of the lower projection of the edging in relation to the worktable to centre it in relation to the panel, for example, to use dust edgings. The automatic adjustment of the height of the edgings feed system reduces unproductive times to zero, machining in batch 1. Utmost flexibility is ensured by the edgings magazine that can hold up to 12 different edgings.



AUTHOR M THE SOLUTION THAT COMBINES QUALITY AND TECHNOLOGY

Furniture manufacturers know the **Morbidelli** brand as a reference point for high performance drilling and routing CNC machining centres.

The **Author M** range offers all the best technological know-how from the Morbidelli brand through highly productive and flexible machining solutions giving many capabilities to adapt to the different industry-standards required by the manufacturing environment.

The constant and continuous development of the range has led to the introduction of important innovations such as the automatic TV FLEXMATIC worktable that presents a new concept: instant locking of the suction cups directly to the bar without the need of pre-installed supports.

This solution allows the use of suction cups in a variable number, on each bar according to the size and shape of the piece to be processed.

With no room for errors, the automatic detection of suction cups number and position on the bars guarantees the best precision and quick set-up in any situation.

Absolute stability of panels during the working phase thanks to the mechanical locking of suction cups on the bars; the system is also ideal for the use of high holding pneumatic clamps when the size and type of the pieces require it.

These innovations combined with the sturdy structure and mobile gantry, are designed to ensure maximum rigidity, with the 5-axis machining unit ideal for any type of machining and the efficient safety systems, makes the Author M a real concentration of technology for those who are looking for high quality standards.



CYFLEX AND POWERFLEX S: BORING WITHOUT LIMITS...

In line with its illustrious tradition Morbidelli presents its latest boring machines. Essential for the modern woodworking industry in order to meet the demands of small artisanal productions as well as industrial productions, they all maintain their renowned high quality standards. They all guarantee: **Efficiency, Productivity and Reliability**. A promise that all our boring machines maintain!

Cyflex S

A boring machine with the best price-performance ratio on the market. Developed from the long-term experience of the F900, today its performance levels have been increased further with the MAESTRO suite.

Cyflex hp

A vertical workcentre designed to handle all the boring and routing operations in less than 10 m². Small size, the shortest cycle times of any of its competitors on the market thanks to the two boring heads with RO.AX technology, independent spindles that optimise any boring layout, a powerful electrospindle and a tools magazine 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.

Powerflex S

The evolution of the legendary Author 924. The Powerflex S guarantees production ranges up to 28 pieces per minute, thanks to its high level of customisation and electronic automation. Extremely fast setup 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, are the best solutions available on the market today, to handle small batch orders economically and efficiently.



PRATIX S: THE CUSTOM NESTING TECHNOLOGY FOR FORWARD-LOOKING CUSTOMERS

A further step has been taken in the evolution of SCM's machining centre, that uses the same technology of industrial drilling and routing centres, yet not renouncing to flexibility and versatility in a more compact version.

Perfect holding down of small components or in conditions of reduced vacuum holding, thanks to the pressure rollers. By pressing close to the working area, the rollers are also ideal for the machining of overlapped panels.

Maximum efficiency in all machining situations with automatic management by NC, the operator only needs to activate the rollers from the program. In case of machining where their use is not foreseen, the rollers are excluded maintaining unchanged the machine performance.

Extremely easy-to-use, also for unskilled operators, thanks to the Xilog Maestro operator's interface software that allows the programming of the entire nesting process from the initial design phase to the single workpiece labeling.

It is possible to customise the labels with logos and text or numerical data in bar-code format (it is also available the qr-code format).

Optimisation of time, materials and resources with Pratix S in "cell version" complete with loading platform and unloading belt. No limitation of the working flow, where the panels feeding is possible without any distinction towards the right side and the left side or vice versa, or with the machine integration in the new Flexstore EL automatic storage system that controls and manages both the storage of the panels inside the panel storage area and the working sequence on the machine.

Find the HR pictures at the following link: www.scmgroup.com/press/xylexpo

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