

morbidelli pwx100

high productivity flexible solution for drilling



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morbidelli pwx100

a sure-fire success

Morbidelli pwx100 is descended from the Author 924, which made history as the most productive flexible boring machine for minimum batches of 50 to 200 workpieces.

The new **Morbidelli pwx100** guarantees even wider production ranges and its extreme configurability means that the customer does not face production constraints. The machine's high performance is thanks to the possibility **of machining workpieces that are different from one another**.

It concentrates several machining operations in a single machine and can be equipped to suit customer requirements with upper vertical boring units and with horizontal units, to complete boring on 5 faces of the panel.

- **EXTREMELY HIGH LEVEL OF ELECTRONIC AUTOMATION**

and use of state-of-the-art technologies guarantee **high productivity of up to 28 workpieces per minute and very fast set-up times (from 5 to 20 seconds)**.

- **EXCEPTIONALLY HIGH QUALITY FINISH**

and **absolute precision in machining operations** are provided by the rigid monolithic structure that prevents vibrations from developing. The latest-generation 8000 rpm drilling heads (with RO.AX technology) are ultra-rigid and allow maximum configurability for all production needs: **up to 12 machining heads** and as many as **380 independent spindles**.

- **EXTREMELY HIGH PRODUCTIVITY**

with program changes in a matter of seconds thanks to the axis positioning speeds and to the high level of autonomy of the units and worktables.

TOP for flexible boring and high productivity integrated systems



sawing.

edge banding.

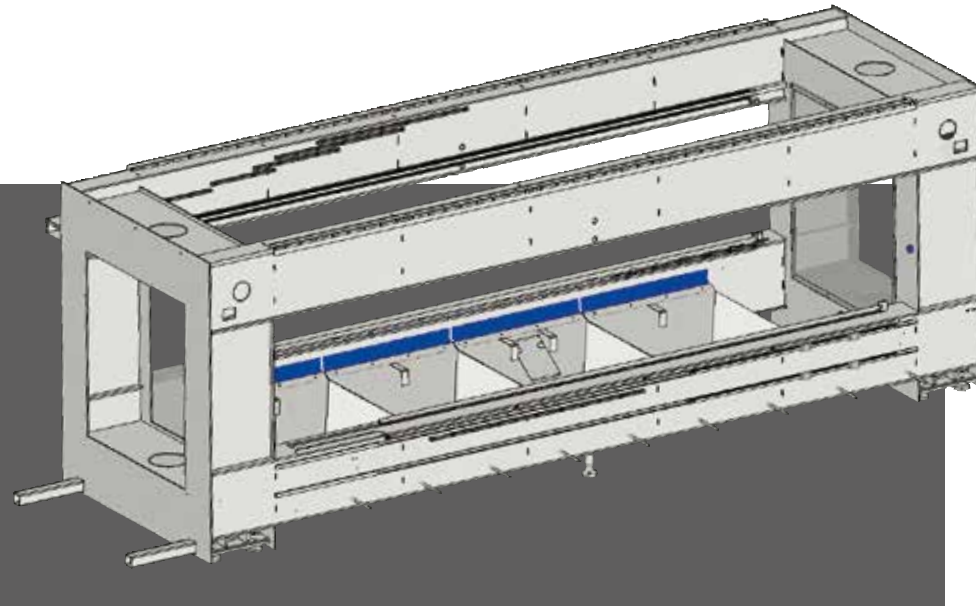
machining center.

sanding.

morbidelli pwx100

TOP for finish quality

The sturdy, balanced structure gives excellent rigidity and stability even when subjected to considerable stresses. This allows fast drilling configuration changes.



TOP for productivity

High productivity of up to **28 workpieces per minute** and **very fast set-up times**, thanks to the automatic displacement.

Up to 8 automated worktables

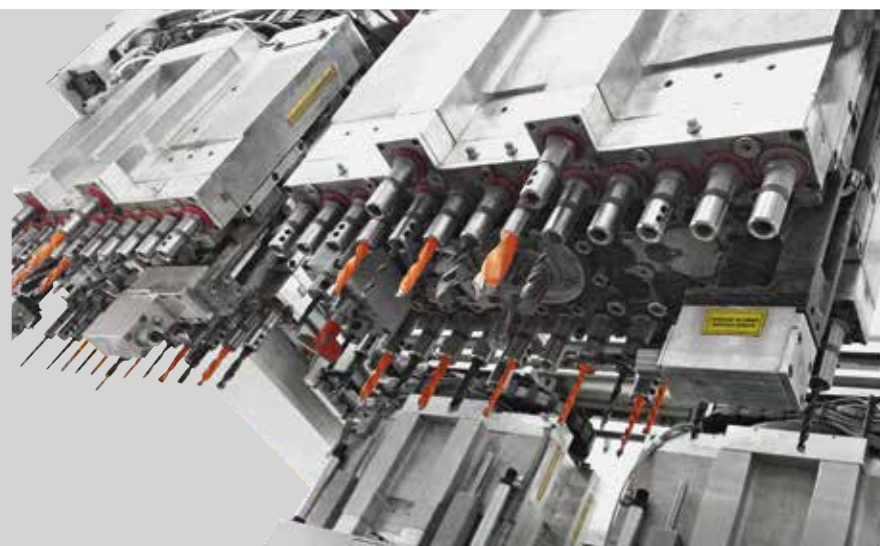


All components are top quality, to ensure continuous production.

Highly configurable with **up to 5 independent movement upper drilling units**, each made up of two drilling heads, with 0/90 degree rotation (optional).

Maximum configurability with latest-generation 8000 rpm ultra-rigid drilling heads with the new RO.AX technology (Rotoaxial spindle technology) that ensures perfect drilling. **Up to 12 machining heads can be fitted and up to 380 independent spindles.**

Possibility of inserting dedicated units for hinges, small heads for horizontal drilling, electro-spindles integrated in the drilling heads.



Mechanical stops with controlled positioning allow the workpiece to be positioned so as to maximise all possible machining operations.



Up to 10 clamps built into the boring heads with integrated suction, entirely automatic and independent.

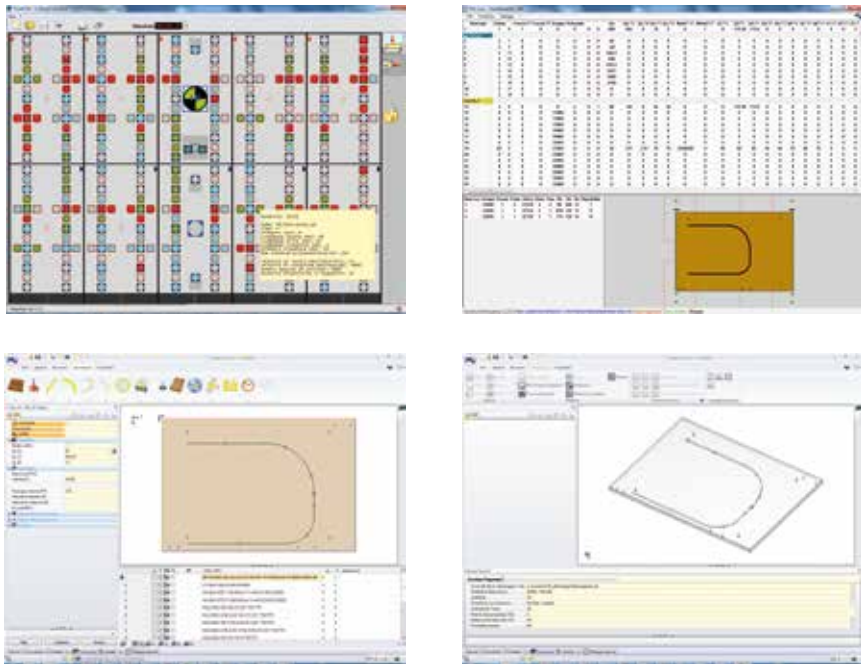


morbidelli pwx100

TOP for intuitiveness and simplicity

MORBIDELLI PWX100

software



Morbidelli pwx100 is simple and intuitive thanks to a powerful software that works out the optimum drilling drops for the highest productivity. This minimises the movements of the axes and units as well as allowing:

- maximum line use
- optimised tooling for improved machine productivity
- optimised machining operations on multiple machines;
- complete reporting;

The package includes:

- CAD function
- operation and machining simulator
- tool wear database for the best quality finish at any time.

MORBIDELLI PWX100

technical details

Panel length	mm	250 - 3050
panel width	mm	100 - 1240
Panel thickness	mm	12 - 60
Vertical boring heads (max)	n.	10
Horizontal boring heads	n.	2
Vertical spindles (max)	n.	335
Horizontal spindles	n.	45
Boring speed	rpm	4000 - 8000
Automated worktables	No.	8
0-90° rotation small boring heads	Option	yes
Electro-spindles	Option	yes
Saw-blade unit	Option	yes

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

The technical data can vary according to the requested machine composition. In this catalogue, machines are shown with options. The company reserves the right to modify technical specifications without prior notice; the modifications do not influence the safety foreseen by the CE Norms.

THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND
Over 65 years of success gives SCM the centre stage in woodworking technology. This heritage results from bringing together the best know-how in machining and systems for wood-based manufacturing. SCM is present all over the world, brought to you by the widest distribution network in the industry.

- 65 years history
- 3 main production sites in Italy
- 300.000 square metres of production space
- 20.000 machines manufactured per year
- 90% export
- 20 foreign branches
- 400 agents and dealers
- 500 support technicians
- 500 registered patents

In SCM's DNA also strength and solidity of a great Group. The SCM Group is a world leader, manufacturing industrial equipment and components for machining the widest range of materials.

SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL MACHINES AND COMPONENTS

INDUSTRIAL MACHINERY		INDUSTRIAL COMPONENTS			
Stand-alone machines, integrated systems and services dedicated to processing a wide range of materials.		Technological components for the Group's machines and systems, for those of third-parties and the machinery industry.			
WOODWORKING TECHNOLOGIES	TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL	SPINDLES AND TECHNOLOGICAL COMPONENTS	ELECTRIC PANELS	METALWORK	CAST IRON