PHANTOMATIC **M3**

CABINET MACHINING CENTERS



CNC machining centre, with 3 controlled axes; the spindle has an automatic tool slewing system on 3 fixed positions that allows processing on 3 sides of the workpiece. Designed for machining bars or parts made of aluminium, PVC, light alloys in general or steel up to 2 mm. It is provided with a manual tool storage magazine with 9 places to wich one or two additional automatic storage magazines with 4 places can be added at the sides of the machine. The workpieces is positioned by a pneumatic stop positioned at the left side of the machine, and is blocked by 4 strong clamps that are positioned by the slider on the X axis. Adding a second optional stop on the right side, the machine may perform extended machining of bars up to twice the work capacity. All CNC axes are absolute and do not require resetting upon machine restart. Moreover it is equipped with a movable work plane for easier workpiece loading/unloading; this also allows considerable increase in the machinable section.

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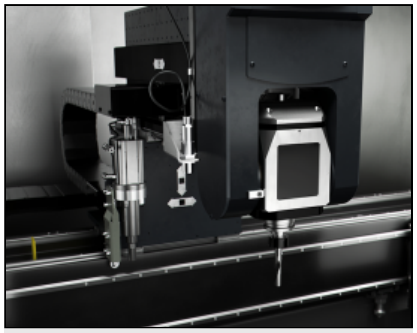
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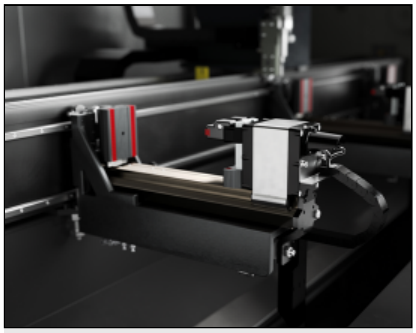
Operator interface

The new control version with suspended interface allows the operator to look at the monitor from any position, as it can be rotated around the vertical axis. The operator interface has a 15" touch screen display with all USB connections necessary to interface with a remote PC and NC. It has a push-button panel, mouse and keyboard. It is also set up for the connection of a barcode reader and remote push-button panel. It is equipped with a front USB socket for data transfer.



Electrospindle - M -

The 4 kW electrospindle in S1 can reach 20,000 rpm. The electrospindle can rotate automatically by electronically locking itself in 3 fixed positions (-90°, 0° and +90°), allowing the profile to be machined on 3 sides, without having to reposition it. It can be used on profiles made of aluminium, PVC and light wood and can process extruded steel that is 2 mm thick.



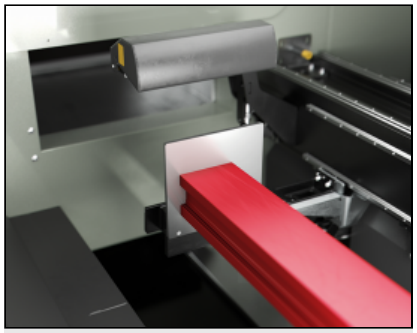
Vices

The machine software can calculate the correct positioning measure for each vice unit, according to the length of the workpiece and to the type of machining to be performed. The automatic positioner allows picking all vice units and moving them by means of the gantry. This operation is performed at the highest speed and with great precision and spares longer time and collision risks, so that the machine can also be easily used by less experienced operators. The mobile work table facilitates the piece loading/unloading operation and significantly increases the machinable section.



Manual tool changer

The standard, retractable toolholder magazine can house 9 toolholder cones that can be manually taken and installed on the spindle. the position numbering allows identifying the requested tool from the hmi for each machining. the magazine is located on board the machine, in a position suitable for easy access by the operator.



Left pneumatic stop

The machine features a robust stop device for bar reference, located on the left side. The stop is activated by a pneumatic cylinder, it is of retractable type and is automatically selected by the machine software according to the machining to be performed.

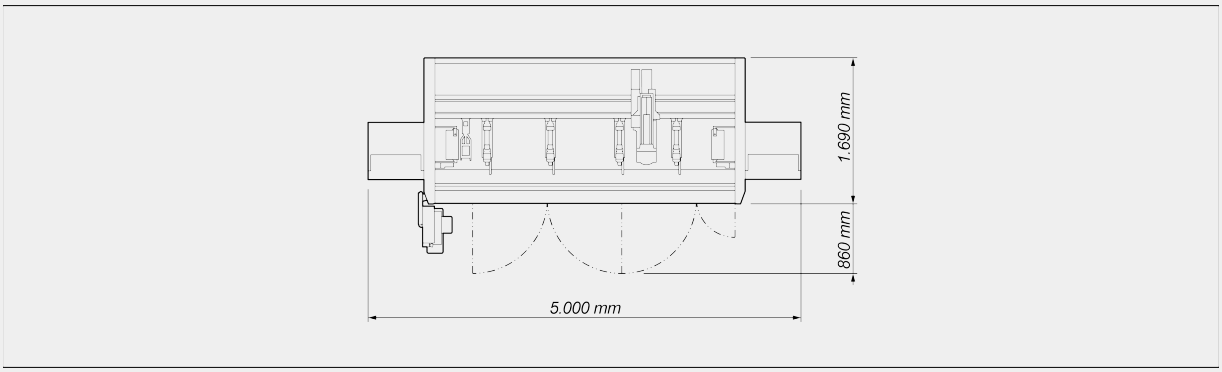
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PHANTOMATIC M3 / CABINET MACHINING CENTERS

LAYOUT



The overall dimensions may vary depending on the product configuration.

AXIS STROKES

X AXIS (longitudinal) (mm)	3.000
Y AXIS (transversal) (mm)	274

POSITIONING SPEED

X AXIS (longitudinal) (m/min)	56

ELECTROSPINDLE

Maximum power in S1 (kW)	4

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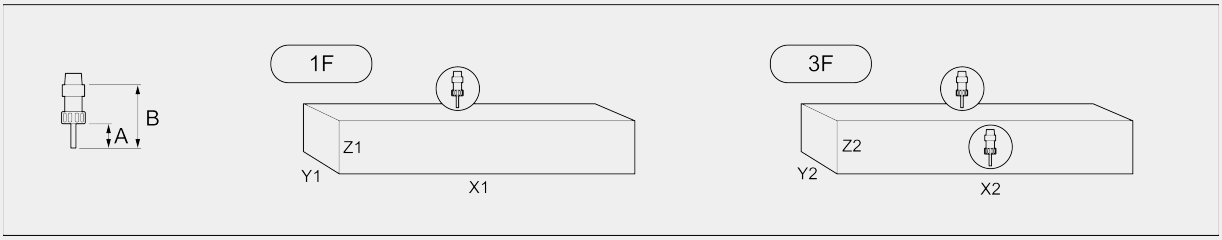
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TOOL MAGAZINE

Maximum number of tools in manual magazine	9

WORK AREA

1F = 1 face machining **3F = 3 faces machining**



	Automatic tool magazines	A	B	X1	Y1	Z1	X2	Y2	Z2
Max. tool diameter: 80 mm									
Machining within the work capacity	-	45	102	3.000	250	210	3.000	100	210
Machining within the work capacity	left	45	102	2.815	250	210	2.815	100	210
Machining within the work capacity	left + right	45	102	2.630	250	210	2.630	100	210
Extended machining	-	45	102	6.000	250	210	6.000	100	210
Extended machining	left	45	102	5.630	250	165(*)	5.630	100	165(*)
Extended machining	left + right	45	102	5.260	250	165(*)	5.260	100	165(*)

Dimensions in mm
(*) with max. admissible length tools (B = 150 mm) charged into the automatic magazine the Z value decreases to 130 mm

TAPPING CAPACITY (with Tap On Aluminium And Through Hole)

With helical interpolation	●
With compensator	M5

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PROFILE POSITIONING

Workpiece reference RIGHT stop with pneumatic movement for extended machining	○
Workpiece reference LEFT stop with pneumatic movement	●

WORKPIECE LOCKING

Number of vices	4

SAFETY DEVICES AND PROTECTIONS

Machine integral protection booth	●

Included ● Available ○

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