

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.

TECHNICAL SHEET

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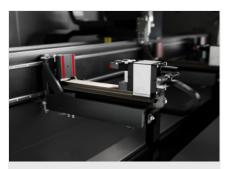
Operator interface

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.



Automatic left tool changer (Optional)

The machine can be optionally equipped with an additional automatic tool changer, located on the left side of the cab. It can house 4 toolholders with respective tools and adjusted as desired by the operator. the tool change is managed by the cnc according to the programmed machining.



Automatic right tool changer (Optional)

The machine can be optionally equipped with an additional automatic tool changer, located on the right side of the cab. it can house 4 toolholders with respective tools and adjusted as desired by the operator. the tool change is managed by the cnc according to the programmed machining.



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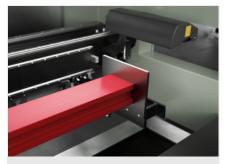
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Left pneumatic stop

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.



Right pneumatic stop (Optional)

A stop can also be optionally fitted on the right side of the machine. 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. the advantage of the dual stop system is that allows repositioning of the bar or short cut when machining particularly long profiles.



Tunnel (Optional)

The machine can perform oversize machining of bars with length up to twice the relevant nominal work area. for this type of machining, the machine must be equipped with side protection tunnel to ensure the operator safety also near the side openings of the cab.



Swarf conveyor belt (Optional)

The machine can be optionally integrated with a conveyor belt for ejection of swarfs and parts of the profile being machined. thanks to this device, machining scraps are directly conveyed into a container, reducing the need to stop machining and facilitating cleaning inside the machine.



Electric panel air conditioner (Optional)

The electric panel air conditioner is the solution for all applications where the environmental conditions require a higher cooling level to preserve the efficiency and durability of the machine electrical and electronic components. A dedicated, carefully sized equipment allows to maintain the correct temperature and humidity inside the electric panel even under unfavourable climatic conditions and extreme workloads.



High-performance industrial human-machine interface PC (Optional)

The high-performance industrial PC significantly improves the computing power of the operating system and the speed of the application software installed. This device allows to achieve a reduction in machine set-up time and manage the most complex cycles without slowdowns.



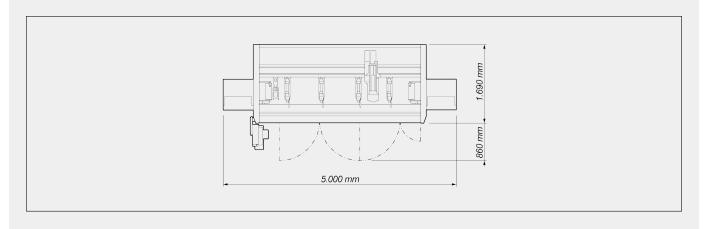
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PHANTOMATIC M3 / CNC MACHINING CENTRES

LAYOUT



The overall dimensions may vary depending on the product configuration.

AXIS STROKES

X AXIS (longitudinal) (mm)	3.000
Y AXIS (transversal) (mm)	274
Z AXIS (vertical) (mm)	390
Automatic electrospindle positioning on three fixed positions	-90° 0 +90°

POSITIONING SPEED

Y AXIS (transversal) (m/min)	22
X AXIS (longitudinal) (m/min)	56
Z AXIS (vertical) (m/min)	22

ELECTROSPINDLE

4
20.000
HSK - 50F
•
•
-90° 0 +90°

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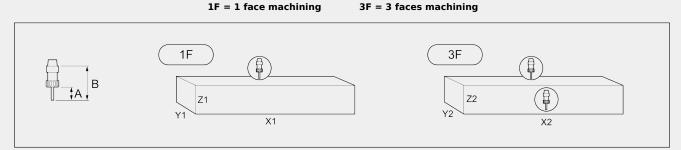
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Automatic tool magazine with 4 places (left) Maximum number of tools in manual magazine Secondary automatic tool magazine with 4 places (right) Maximum dimension of the tools that can be loaded into the magazine (mm) (*) tools over 100 mm length limit the work capacity

WORK AREA



Automatic tool magazines	A	В	X1	Y1	Z 1	Х2	Y2	Z 2
-	45	102	3.000	250	210	3.000	100	210
left	45	102	2.815	250	210	2.815	100	210
left + right	45	102	2.630	250	210	2.630	100	210
-	45	102	6.000	250	210	6.000	100	210
left	45	102	5.630	250	165(*)	5.630	100	165(*)
left + right	45	102	5.260	250	165(*)	5.260	100	165(*
	tool magazines - left left + right - left	tool magazines - 45 left 45 left + right 45 - 45 left 45	tool magazines A B - 45 102 left 45 102 left + right 45 102 - 45 102 left 45 102	tool magazines A B X1 - 45 102 3.000 left 45 102 2.815 left + right 45 102 2.630 - 45 102 6.000 left 45 102 5.630	tool magazines A B X1 Y1 - 45 102 3.000 250 left 45 102 2.815 250 left + right 45 102 2.630 250 - 45 102 6.000 250 left 45 102 5.630 250	tool magazines A bridge B bridge X1 bridge Y1 bridge Z1 bridge - 45 102 strong stro	tool magazines A bridge B bridge X1 bridge Y1 bridge Z1 bridge X2 bridge - 45 102 street 3.000 street 250 street 210 street 3.000 street left + right 45 102 street 2.630 street 250 street 210 street 2.630 street - 45 street 102 street 6.000 street 250 street 6.000 street 6.000 street 5.630 street left 45 street 102 street 5.630 street 250 street 165(*) street 5.630 street	tool magazines A magazines B Magazines X1 Magazines Y1 Magazines X2 Magazines Y2 Magazines - 45 102 3.000 250 210 3.000 100 left + right 45 102 2.815 250 210 2.630 100 - 45 102 6.000 250 210 6.000 100 left 45 102 5.630 250 165(*) 5.630 100

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 compensator	M5
With helical interpolation	•



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PROFILE POSITIONING	
Workpiece reference LEFT stop with pneumatic movement	•
Workpiece reference RIGHT stop with pneumatic movement for extended machining	0
WORKPIECE LOCKING	
Number of vices	4
Automatic vice positioning through X axis	•
SAFETY DEVICES AND PROTECTIONS	
Machine integral protection booth	•
Side tunnels	0

Included • Available O