







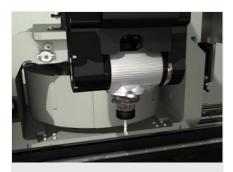
Machining centre CNC with 4 controlled axes, used for the working of bars of aluminium, PVC, light alloys in general and steel pieces up to 2 mm. All models can operate in single piece and multi piece mode, with a single work area for bars up to 7.7 m in length. The PHANTOMATIC X6 and PHANTOMATIC X6 HP models allow machining in pendular mode, with two independent machining areas. The PHANTOMATIC X6 HP version, with 2 supplementary axes to position the clamps and the reference stops allows operation in dynamic pendular mode, carrying out clamps positioning while the machine is working. All CNC axes are absolute and do not require resetting upon machine restart. It has an 8 place tools storage, on the on X axis truck, with the possibility of hosting an angular units and one milling disc, to perform machining on the 5 sides of the piece. The 4th NC axis allows the electrospindle to rotate from 0° to 180° and position itself at any intermediate angle. The machine can therefore perform machining operations on the top and side faces of the profile at any angle within the range. It also has a mobile work table that facilitates the workpiece loading/unloading operation and significantly increases the workable section.

1

# **TECHNICAL SHEET**

02/01/2026





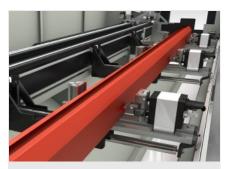
# 4 axes electric head -X-

7 kW S1 high torque electrospindle allows heavy duty machining. The electrospindle movement along A axis performs 0° to 180° rotation, allowing to work on 3 sides of the profile with no need to reposition it.



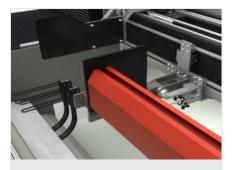
# **Operator interface**

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.



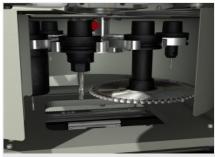
# **Vices**

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 positioning system 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.



# **Pneumatic stops**

The machine is equipped with strong stops allowing bar reference. One is positioned on the left side (standard) and the other on the right side (optional). Each stop is activated by a pneumatic cylinder, it is retractable type and is automatically selected by the machine software according to the machining to be performed.



# **Tool magazine**

The tool magazine is integrated on the X axis, in the lower part and behind the electrospindle. It allows great reduction of tool change times. This function is particularly useful in the extrusion head and tail machining, avoiding the stroke to get to the magazine, as it moves simultaneously with the electrospindle and its positions.



# **Double operation mode**

New work system that allows reducing machine stand-still times to a minimum during the loading and unloading of the workpieces. The system allows loading and consequent machining of workpieces, with different lengths, codes and types of machining for the two working areas. This is a very advantageous solution for the field of window/door frames and for small work orders, where machining is required for small lots of different workpieces.



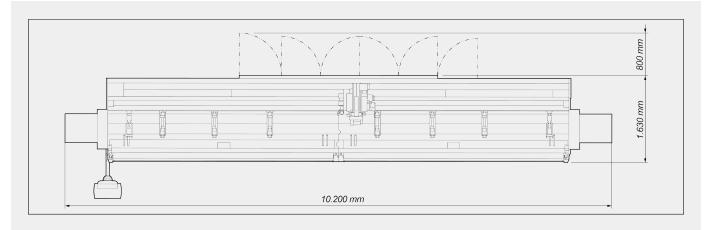
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# PHANTOMATIC X6 / CNC MACHINING CENTRES

# LAYOUT



The overall dimensions may vary depending on the product configuration.

# AXIS STROKES

| X AXIS (longitudinal) (mm)                       | 7.700     |
|--|-----------|
| Y AXIS (transversal) (mm)                        | 270       |
| A AXIS (electrospindle rotation)                 | 0° ÷ 180° |
| Z AXIS (vertical) (mm)                           | 420       |
| H AXIS (vice position.) (PHANTOMATIC X6 HP) (mm) | 3.300     |
| P AXIS (vice position.) (PHANTOMATIC X6 HP) (mm) | 3.300     |
|  |           |

# **ELECTROSPINDLE**

| Maximum power in S1 (kW)       | 7         |
|--------------------------------|-----------|
| Maximum speed (rpm)            | 16.500    |
| Toolholder cone                | HSK - 50F |
| Automatic tool holder coupling | •         |
| Cooling with heat exchanger    | •         |

# **AUTOMATIC TOOL MAGAZINE ON BOARD THE GANTRY**

| Maximum number of magazine tools   | 8 |
|--|---|
| Maximum number angle machining units that can be inserted in the tool magazine | 1 |

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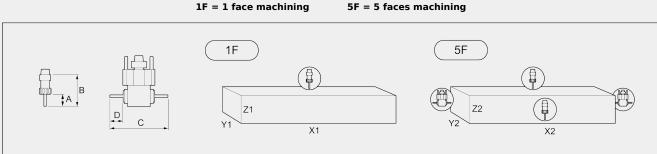


| • |
|---|
| • |
| 0 |
| • |
| • |
| 0 |
| 0 |
| 0 |
|   |

# **WORKABLE SIDES** With direct tool (upper face and side faces) 3 2 With angle machining head (heads) With blade tool (upper face, side faces and heads) 1 + 2 + 2

**WORK AREA** 

# 5F = 5 faces machining



|                   |                | A  | В   | С   | D    | X1    | Y1  | <b>Z1</b> | X2    | Y2  | <b>Z</b> 2 |
|-------------------|----------------|----|-----|-----|------|-------|-----|-----------|-------|-----|------------|
| PHANTOMATIC X6 M  | single<br>mode | 45 | 102 | 232 | 45,5 | 7.700 | 210 | 250       | 7.460 | 180 | 250        |
| PHANTOMATIC X6    | single<br>mode | 45 | 102 | 232 | 45,5 | 7.700 | 210 | 250       | 7.460 | 180 | 250        |
|                   | double<br>mode | 45 | 102 | 232 | 45,5 | 3.220 | 210 | 250       | 2.980 | 180 | 250        |
| PHANTOMATIC X6 HP | single<br>mode | 45 | 102 | 232 | 45,5 | 7.320 | 210 | 250       | 7.080 | 180 | 250        |
|                   | double<br>mode | 45 | 102 | 232 | 45,5 | 3.000 | 210 | 250       | 2.760 | 180 | 250        |
| Dimensions in mm  |                |    |     |     |      |       |     |           |       |     |            |

# **TAPPING CAPACITY (with Tap On Aluminium And Through Hole)**

| With compensator | М8  |
|------------------|-----|
| Stiff (optional) | M10 |



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# Workpiece reference stops with pneumatic movement 2 Automatic positioning stops through H and P independent axes (PHANTOMATIC X6 HP) 2

| WORKPIECE LOCKING  |    |
|--|----|
| Standard number of pneumatic vices (PHANTOMATIC X6 M - PHANTOMATIC X6) | 6  |
| Standard number of pneumatic vices (PHANTOMATIC X6 HP)                 | 8  |
| Maximum number of pneumatic vices (PHANTOMATIC X6 M)                   | 8  |
| Maximum number of pneumatic vices (PHANTOMATIC X6 - PHANTOMATIC X6 HP) | 12 |
|  |    |

| Machine integral protection booth |   |
|-----------------------------------|---|
|                                   | • |
| Side tunnels                      | 0 |

Included ● Available ○