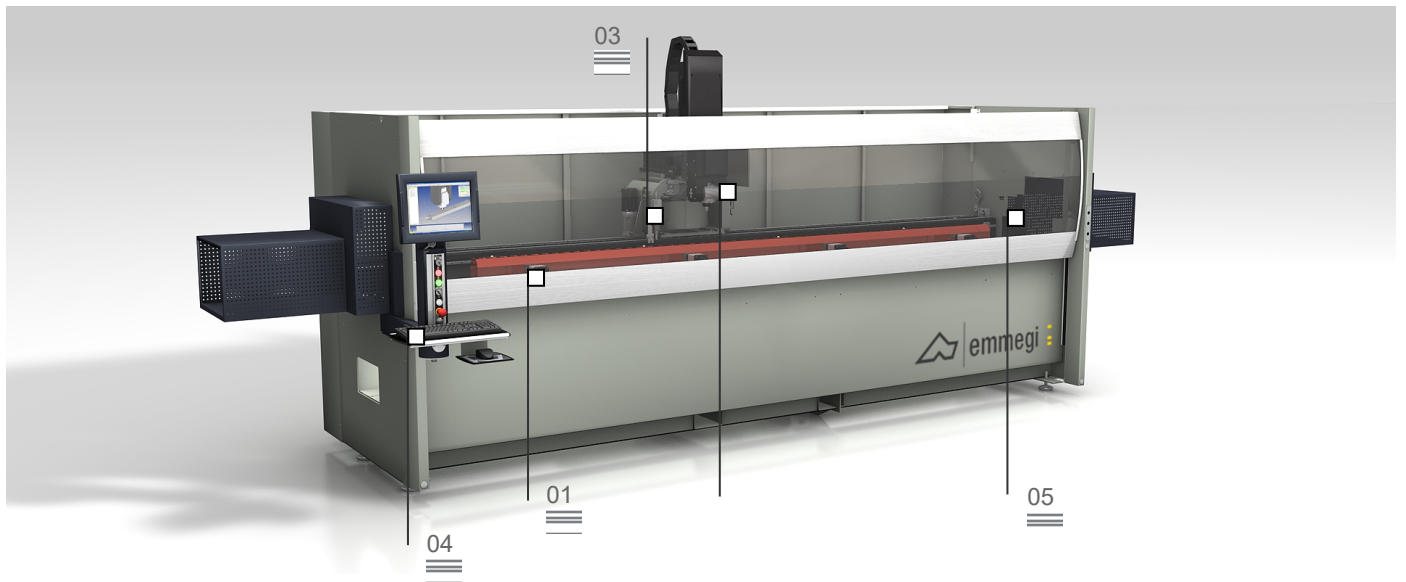


# Phantomatic X4

## 4-axis machining centre

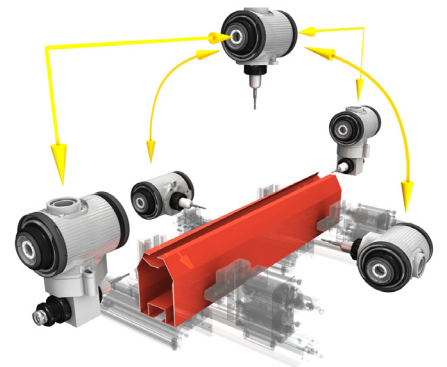
Clamps 01

Electric head 02



Machining centre CNC with 4 controlled axes, used for working bars of aluminium, PVC, light alloys in general and steel pieces up to 2 mm. It has an 8 place tools storage, with the possibility of hosting an angular unit and a milling disc, to perform machining on the 5 sides of the piece. Works bars up to 4 m long. The 4th CN axis allows the electro spindle to continuously rotate from 0° to 180° to perform the work on the profile edge. It also has a mobile work surface that facilitates the piece loading/unloading operation and significantly increases the workable section.

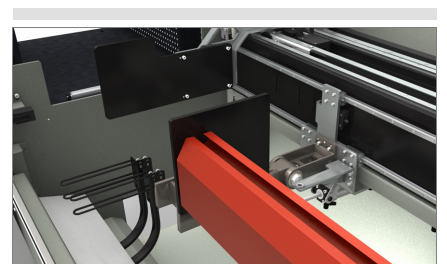
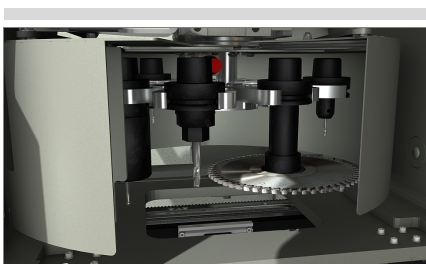
### Working capacity



Tool Magazine 03

Operator Interface 04

Pneumatic Stops 05



The images are only given for illustrative purposes

# Phantomatic X4

4-axis machining centre

## 01 Clamps

The machine software, depending on the length of the piece and the work to be carried out, is able to safely determine the positioning quota of every clamp unit. The automatic positioning allows to hook every vice unit and move it by moving the truck. This operation happens with maximum speed and precision, avoiding long times and collision risks and making the machine easy to use, also by operators with less experience.

## 02 Electric head

The 7 kW electrospindle in S1 with high torque power, allows to carry out heavy-duty processing. The movement of the electrospindle along axis A allows to perform rotations from 0° to 180°, allowing to perform work on 3 sides of the profile, without having to move it. It can be used on certain types of extruded steel and on aluminium profiles, thanks to a lubrication system, settable from the software, whose twin tank allows to use both minimal diffusion oil and oil emulsion mist.

## 03 Tool Magazine

The tool holding storage is integrated on the X axis, placed lower and in backward position compared to the electrospindle, allows a drastic time reduction for the tools change operation. This function is particularly useful when working head and tail of the extruded material, allowing to avoid the run to reach the storage, in that the same moves together with the electro spindle, in the relative positioning. The storage is able to contain up to 8 tool holders with respective tools, which can be configured at the discretion of the operator. A sensor detects the correct positioning of the cones.

## 04 Operator Interface

The new control version, with suspended interface, allows the operator to see the screen from any position, thanks to the possibility to rotate the monitor on the vertical axis. The operator interface has a 15" touch screen display with all USB connections necessary to remotely interface with PC and CN. It also has a push button control unit, a mouse and keyboard and is also arranged for the connection of a barcode reader and remote push button control unit. IT IS equipped with a front USB port for exchanging data.

## 05 Pneumatic Stops

The machine is fitted with sturdy stops that allow bar reference, located one on the left side (standard) and one on the right side (optional). Every stop, activated by means of a pneumatic cylinder, is of retractable type and is automatically selected by the machine software according to the work to be carried out. The advantages of the double stop can be summarised in the possibility to load more profile pieces for work in multipiece mode, as well as the possibility to carry out the repositioning of the bar or of the piece and carry out work on particularly long profiles.

### AXES TRAVEL

AXIS X (longitudinal) (mm)	4.000
AXIS Y (transversal) (mm)	270
AXIS Z (vertical) (mm)	420
AXIS A (spindle rotation) (°)	0 ÷ 180

### ELECTRO SPINDLE

Maximum power in S1 (kW)	7
Maximum speed (revs/min)	16.500
Tool attachment cone	HSK – 50F

### AUTOMATIC TOOLS STORAGE ON TRUCK

Storage tools maximum number	8
Number of angular units that can be inserted in storage	1
Maximum diameter blade that can be inserted in storage (mm)	Ø = 180

### FUNCTIONALITY

Multipiece functioning	•
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### WORKABLE SIDES

With direct tool (upper side and lateral sides)	3
With angular unit (heads)	2
With blade tool (upper side, lateral sides and heads)	1 + 2 +2

### TAPPING CAPACITY (with tap, on aluminium and through hole)

With compensator	M8
Stiff (optional)	M10

### PROFILE POSITIONING

Piece reference left stop with pneumatic movement	•
Piece reference right stop with pneumatic movement	○

### PIECE LOCKING

Vices standard number	4
Vices maximum number	6
Automatic vices positioning through axis X	•

### SAFETY DEVICES AND PROTECTIONS

Machine integral protection booth	•
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- included
- available