

## Emmegi 3 axis CNC Phantomatic T4 A machining centre

### General Specifications:

- **Type:** CNC 3 axis
- **Manufacturer:** Emmegi
- **Model:** Phantomatic T4 A
- **Manufacturing date:** 2008

### Images:



### Specifications:

The "Phantomatic T4 A" machining centre has a physical protective guard, which totally protects the operator and contributes to reduce the noise level.

The protection allows however an easy and quick access to the support clamps for the profile loading/unloading and a practical access to the machine's back in case of any eventual maintenance request.

### Machine's programming:

The "Phantomatic T4 A" is quickly and easily programmable, thanks to a special software package developed by Emmegi. Such software, operating in Windows 2000 environment, is one of the most important features of our working centre, allowing the operator to program the machining in a simple and intuitive way.

### Clamps positioning:

After the programming, the machine carries out the automatic positioning of the no. 4 pneumatic clamps on the X-axis by means of a pneumatic device installed on the side of the spindle aggregate.

This allows the operator to lay on the standard machine one profile (2 profiles with optional software), to be machined against the relevant pneumatic reference stop, with the certainty of having the clamps always in the right position.

#### Profiles positioning:

The Phantomatic T4 A machining centre is equipped with n. 2 pneumatically driven drop-away reference stops, designed "x1" and "x2", located on the left side of the machine and no. 2 pneumatically driven drop-away reference stops, designated "x3" and "x4", located on the right side of the machine.

The reference stop can be selected by the operator during the programming, to lay the profile in the most convenient position for the machining, as described in the following table.

#### Functioning mode:

Totally automatic: After the operator start, the Phantomatic T4 executes all programmed machining automatically.

Workable profile cross section with vertical milling tool only:

(milling tool length 90mm) (W x H): 280 x 200 (280 x 150)\* mm

Workable profile cross section on 3 faces with horizontal double milling head (milling tool length 45mm) and vertical milling tool (milling tool length 90mm) (W x H): 165 x 200 (165 x 150)\*

\*: values to be considered when the system to automatically rotate the horizontal spindle is installed on the machine

Milling tool only:

Max. workable length with vertical tool: 3400mm (6800 mm with profile shifting)

Axis stroke:

? X (longitudinal axis): 3400mm

? Y (transversal axis): 300mm

? Z (vertical axis): 350mm

Positioning speed:

? X 56 m/min

? Y 22.5m/min

? Z 22.5 m/min

Aix acceleration:

? X: 4,68 m/sec<sup>2</sup>

? Y: 1,84 m/sec<sup>2</sup>

? Z: 1,84m/sec<sup>2</sup>

Electrical spindle characteristics:

? Power in S1 service: 5.5KW

? Speed: variable from 500 to 18.000rpm

? Collect chuck: ISO 30 DIN 69871

? Shank: special design

? The spindle cone is kept clean by a jet of air during tool change

Tools lubrication:

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The "Phantom T4 A" is equipped with a tool magazine, which slides horizontally, and has six slots available to accommodate:

- ? No. 1 2-way angular spindle (max width 239mm)
- ? No. 4 ISO 30 collet chucks
- ? No. 1 Blade holder with blade up to 180mm or no. 1 ISO 30 chuck

The tool change occurs automatically driven by the CNC.

The <> machining centre is composed by:

Physical protective system:

Total protection for the 4 machine's sides, including front sliding protective access, and wide opening back hatches to allow an easy access to the machine.

Load-bearing base, of electrically welded rugged heat treated steel construction with length sufficient to allow stability and accuracy during the working cycle. Complete with work table, slideways for axis travel. Motorisation system X,Y and Z axis with brushless motor and measure reading by encoder on the rack. Swarf conveyor in the base.

Control unit

Consisting of:

? CNC-PC CELERON 850 MHz (or higher) with Windows ® 2000, including colour monitor TFT 12", international keyboard, RAM256 Mbytes memory, 10 Gigabytes Hard Disk, driver for the Floppy Disk 3,5" of 1.44 Mbytes, international mouse. CD ROM driver, RJ45 network connection card.

? Electrical cabinet with ventilation/cooling system.

? Software fully developed by Emmegi ; Phantomatic-Cam Editor Drill, two copies.

Machine delivered with:

- ? 1 collet ERC32 (Article 257009)
- ? 1 single lip carbide tipped cutter Ø 8mm (Article 255825)
- ? 1 wrench (Article 257611)

Dimensions, Weight and supply:

L x W x H: 5'472 x 1'900\* x 2'200mm

\* control console excluded

Weight: 1'820kg

Air pressure: 6-8 bar

Air consumption: 87NI/min

Installed power: 7kw

Max. absorbed 16A

Current at 380V