**XP 9000 - 5 AXIS CNC PROFILE MACHINING CENTER**

**Description:**


Bridge system supports perfect alignment of the spindle moving on the profile and 0,1mm./1m. Accuracy.

Double servo motor system on both sides of the bridge makes the machine work smoothly without any vibration. 12,0 kW high speed spindle works up to 24.000 rpm and is able to work on very thick profiles from the 5 sides of the profile. The spindle is a multi-axis head.

Optionally 18,0 kW 24.000 rpm is also available.

**The alloys that can be processed on the machine:** Aluminium up to 20 mm wall thickness – steel up to 8 mm wall thickness – light alloys such as PVC and etc.

The XP 9000 has 16 profile clamps that are manually automatically by the bridge. All clamps have rigid connection pieces and move on linear guides with bearings.

500 mm X 350 mm Profile processing from the top and 350 mm. X 350 mm. Profile processing from 5 sides of the profile, which is a giant size, compared to the competitors.

Thanks to 10 positions tool magazine, it is possible to carry any tool b/w 1 mm – 30 mm tool diameter and 300 mm of disc cutter. There is a special place for the sawblade positioning for 5 axis notching operations.

Waste pieces are isolated by the machine cover and extracted by the CE norm waste piece extraction conveyor belt. In this way all the waste pieces are kept in one place and the thee are no waste pieces stucked around the machine.

**CAD-CAM** software is specially designed for the easiest way of processing profiles. The system starts workig with the import of DXF drawings of the profile that will be processed. It is extremely easy to program the profile, make demo before it works, help to work out time study and keep the work done in the HDD of the machine easily. In the 5 axis machining module, it is standart importing STP and IGS files direct to the software.

The TWIN working mantality makes the operator to load and offload the profiles without loosing time and it increases the capacity of the machine no less than 50%.
### Axis information:
- **X axis**
  - Net processing length: 10.000mm. Vmax: 100 m./min. – 2 Stations
  - Vmax: 10,000 m./min.

- **Y axis**
  - Net processing width: 500 mm. Vmax: 80 m./min.

- **Z axis**
  - Net processing depth: 350 mm. Vmax: 25 m./min.

- **A Axis**
  - Processing: +/- 185 degrees

- **C Axis**
  - Processing: +/- 320 degrees

### The body:
Vibration free steel chassis, processed with the highest accuracy before mounting the linear accessories.

### Spindle Heads:
- **Type X**
  - 12,0 kW. 1.000 - 24.000 rpm spindle with one inverter adjusted for any rotation speed to work from the 5 sides of the profile.
  - Optionally 18 kW 24.000 rpm spindle is also available.

### Axis technical information:
- **C Type X axis**
  - Is working on crackmil and pinion with brushless servo motors and guided by linear guides from both endings of the column with **100 mt./min.** speed. The X axis is driven by a servo motor of 5 kW and 19 Nm which makes the machine the fastest among its rivals.

- **Y axis**
  - Is working on crackmil and pignon with brushless servo motors and guided by linear guides with **80 mt./min speed.**
    - 1.6 kW – 4 Nm – 4.000 rpm. – with 1/10 geared 120 mm body.

- **Z axis**
  - Works with a screw mill and brushless brake type servo motor with a speed of **25 mt./min.**
    - 1.6 kW – 4 Nm – 4.000 rpm. – with 20 mm diameter 20 pitch screw mill and 1/1 reduction.
Routing heads:

High speed spindle with ceramc bearings.

Liquid cooling system.

Spindle -1- 12,0 kW 24.000 rpm
Spindle -2- 18,0 kW 24.000 rpm
HSK F-63 Tool Holedrs - Optional
5-6-8-10-12-14-20 mm Collet Set - Optional
Cutter set - Optional
Disc cutter set: 80-120-200-250-300 – 400 – 500 mm.

Servo Frequency Inverter for Spindle Speed

The latest technology for driving the spindle via servo motor driver for perfect control of the spindle speed. This driver is mounted beside the power supply of the CNC controller and the power supply is also upgraded to control the frequency peaks up to 20 kW.
**Pneumatic Profile Clamps:**

500 mm. Large clamping section. Each clamp's reference point and the piston can be removed and adjusted according to the customers' choice. Any kind of mould or fixture equipment can be connected easily. Automatically positioned.

**Crackmill and pignon:**

Grounded Helix Crackmill
Grounded Helix Pignon
Z Axis screw mill
### Equipment:

**Reference points:**
- 2 pneumatic pieces for TWIN working. (optional)

**Profile clamps:**
- 10 pieces

**CAD-CAM Software:**
- Included

**Waste piece extraction roller conveyor:**
- CNC controlled

### Electronic equipment:

- Servo motors and reducers
- Power supply unit for all the drivers and the spindle inverter
- Electric system and the cabinet with the cooling system
- Servo drivers
- CNC controller

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**INDUSTRIAL CNC CONTROLLER – ESA AOTOMOTION – [www.esautomotion.it](http://www.esautomotion.it)**

12 Axis RTCP (Rotation Tool Center Point) type of 5 Axis simultaneously interpolating real CNC controller.

Real Italian technology with the software and all the hardware. Nothing is produced in China. All are produced in Italy.

19” Touchpanel + the CNC controller + the power supply + servo motors + servo drivers.

Easy to get support over teamviewer connection.

- Handwheel
- Dry run
- Changing the home position
- Suitable for G code programming

**Electrics:**

- PC based CNC controller
- Cooling fan on the electrics cabinet
- Emergency button
CAMBOX 3D CAD-CAM:

- Design, R&D and application are carried through the vast experience of ino machinery team.
- The perfect optimization of economic profile working in 3, 4 and 5 Axis.
- Importing of DXF files and converting them to 3D images.
- Generating G-codes over the DXF files
- Understanding of the operations on the DXf files and auto-tooling
- STP and IGS file import is also available. CAMBOX places the solid drawings on the clamps as profiles.
- CNC clamp management and collusion control.
- Auto positioning of the profiles on the clamps according to the operations on the profiles.
- Double station working pack. Self optimization of the pendular mode.
- Tool measurement control thanks to the tool measurement probe.
**Technical Parameters:**

Total installed power: 45 kW / 60 A / 400 V / 50-60 Hz.

Air pressure and air consumption: 6-8 Bar - 140 L/min.

Net dimensions: 9.450 X 3.150 X 2.700 mm.

Packing dimensions: 9.750 X 2.000 X 2.800 mm. (The protection cover is dismounted for the shipment)

Machine weight: 5.500 Kgs.