

XP 9000 - 5 AXIS CNC PROFILE MACHINING CENTER



Description:

Servo motor 5 Axis CNC controlled profile machining centre with X-Y-Z-A-C Axis.

Bridge system supports perfect allignment 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. 18,0 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.

The alloys that can be processed on the machine: Aluminium up to 20 mm wall thickness – steel up to 8 mm wall thickness, Stainless Steel up to 4 mm Wall thickness, light alloys such as PVC and etc.

The XP 9000 has 8 profile clamps that are manually automaticallyt 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 350 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 sticked around the machine.

CAD-CAM Uni_Link Embedded with all 5 axis Operations included.

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: 7.500mm. Vmax: 90 m./min. – 2 Stations

Y axis net processing width: 500 mm. Vmax: 65 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 chasis, processed with the highest accuracy before mounting the linear accessories.

Spindle Head:

18,0 kw 1.000 -24.000 rpm spindle with one inverter adjusted for any rotation speed to work from the 5 sides of the profile.

Axis technical information:

C Type X axis is working on crackmil and pinion with brushless servo motors and guided by linear guides from the 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.

Y axis is working on screw mill with brushless servo motors and guided by linear guides with

65 mt./min speed. 1.6 kW 4 Nm 4.000 rpm. with 1/3 geared 120 mm body + 20 mm diameter 20 pitch screw mill

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 1/10 reduction.

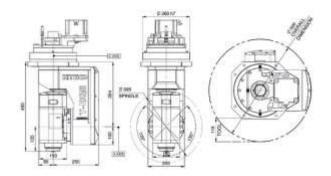
A axis inside the bi-rotary head working with 1 Nm brushless servo motor with 5.000 rpm and harmonic reducer of 1/120 ratio.

C axis inside the bi-rotary head working with 1 Nm brushless servo motor with 5.000 rpm and harmonic reducer of 1/120 ratio.



HITECO SERIETILT TESTS BROTHING / BLADTARY UNITS

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Routing heads:

High speed spindle with cecramic bearings.

Liquid cooling system.

Spindle -1- 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: from 80 mm to 500 mm in different sizes.

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 18 kW.









Pneumatic Profile Clamps:

500 mm. X 350 mm. large clamping section.

Each clamp's refernce 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.









INDUSTRIAL CNC CONTROLLER – ESA AOTOMOTION – <u>www.esautomotion.it</u>

12 Axis RTCP (Rotation Tool Center Point) type of 5 Axis simultaniously interpolating real CNC controller. Italian technology with the software and all the hardware.

19" Touchpanel + the CNC controller + the power supply + servo motors + servo drivers with Can-Open.

Each axis has "Absolute Encoder" for avoiding the problems caused by homing and home sensors. The Machine does not need to g oto home position each time the operator turns on the Machine.

All power & encoder cables, driver mounted motor communication cables and all motor sockets are designed by ESA to be complete problem free and for perfect communication of the axis.

Movable CNC controller terminal mounted on the Machine body with the PC + keyboard + Mouse + operator buttons embedded on.

Licanced Windows10

Electric system and the cabinet with the cooling system. A/C is opitonal.

Easy to get support over teamviewer connection.

AC Inverter for adjusting the speed of the spindle 0-24.000 rpm.

Automatic tool measurement probe

Handwheel

Dry run

Changing the home position



Equipment:

Referance points:

2 pieces. For using the Machine with 2 processign stations and also for machining profiles longer than the measure. Both endings of the Machine is opened as a standard accessory.

Profile clamps:

8 pieces are standard. The number of the clamps can be increased up to 14 clamps optionally.

CAD-CAM Software:

Uni_Link INO-OnBoard Software – 1 licance for the Machine + 1 licance for the office is included.

Laser safety barriers functioning automatically according to the TWIN working cycle.

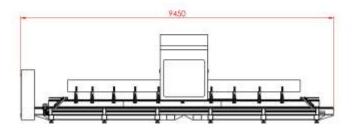
Spray mist cooling system with oil tank mounted on the Z axis.

User manuals.

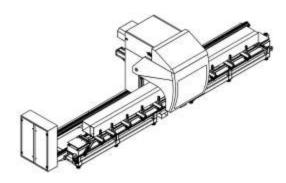
CE certification.











5500 kg



UNI LINK 3D CAD-CAM:

- Design, R&D and application are carried through the vast experinece of ino machinery team and Uni Link engineers.
- 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
- Also availbale in Office verson with a perfect simulation interface, so that the one working at the
 Office will also prepare the profile machining programs just like he is beside the machine.
- Incredibly user friendly for the operator and also for the Office responsible who will prepare the machining files in the Office.
- CNC clamp management and collusion control.
- Auto positioning of the profiles on the clamps according to the operations on the profiles.
- Macro creation for each operation and placing them on the profile automatically.
- Independent form the size of the prfoile it is possible to place any operation on the same profile in different legth parametricly.
- All the profiles that will be machined, will be listed on the machine HMI and operator will only have to press the start button.
- Ability to work with all Windows and Doors production softwares like Schücal or Orgadata or similar.
- Ability to prepare cut-list optimization for the double mitre saw and import in .csv format. Optionally barcode generation from the cutting machine and reading by the machining center is availbale.
- This software is the most user friendly software in the market and also the richest one in terms of capabilities.

