

**ATLANTIS C4 VERTICAL MACHING CENTER , 4 METER WITH 11 TOOL CHANGER**

The Atlantis C4 machining center is a computer numerically controlled vertical router for Aluminum, PVC and steel profiles capable of working on 3 sides of the profile.

C4S has a pneumatic tilting working table: +90°/0°/90°, intermediate angles are obtained by mechanical stops; C4 PLUS has a CNC controlled electronic rotation from -90° to +90°.

Spindle speed adjustment from 2800 to 18000 rpm is controlled by a frequency inverter. Computer Numerically Controlled Interpolation of X and Y. Axis X, Y and Z movements utilize digital brushless motors . The unit come complete with 6 pneumatic double acting clamps for material fixturing and optionally with an automatic tool changer and pneumatically operated left and right stops. Tool diameter correction is compensated by the software.

The machine can be equipped with a frontal protection or a complete cabin on request.

Automatic clamps movement with the spindle to avoid positioning error can also be requested.

The automatic tool changer can hold up to 11 tools, 1 of them can be an end mill (max d.160 mm). A retractable enclosure protects tools from chips and dust produced during the machining process.



Clamping devices	HSD electrospindle 4.5 kW or 8 kW 0-18000 RPM	Industrial PC with Windows 10	Automatic tool changer

# C4 VERTICAL MACHINING CENTER

## COMPONENTS SUPPLIED

- HSD ES330 4.5 kW 2800-18000 RPM electrospindle
- N.6 Manual positioning clamps
- N.1 Oil sprayer lubrication on the electrospindle
- Fast & easy changing ISO30 tool system
- Cooling system by electric fan
- Numeric control
- PC with monitor
- Mouse and keyboard
- Windows 10 Operative System
- Serial and Ethernet interface for connection with barcode reader and LAN
- Operator console separated from the machine
- Control panel on the machine
- Air gun and feel spiral plastic pipe
- Service spanner for cones
- Machine documentation
- CE Certificate
- User and Maintenance manual
- CNC Manual
- Electrical and Pneumatic Drawings
- Safety system with opto-electronic barriers
- ISO Standard programming language and from DXF to Macro
- Communication system for remote control with Ethernet or Wi-Fi connection

Axis X	4200 mm
Axis Y	570 mm
Axis Z	300 mm
Axis I	180°
Spindle Speed	280-18000 RPM
Spindle Power	4,5 kW (8 kW on request)
Max Axis Speed	X=60 m/min Y=45m/min Z=25 m/min I= 120°/s
Max Milling Tool Diameter	160 mm
Dimensions	
Length	5400 mm
Width	2400 mm
Height	2000 mm

Tool Holder	ISO30
Tool changer	11 positions (on request)
Number of Stops Reference	2
Clamps	6 manual
Automatic Clamps	Moved by Spindle (on request)
Cooling System	Electric Fan
Tool Lubrication	1 on the Spindle
Oil Tank Capacity	5 liters
Operating Pressure	7 bar
Air Consumption	35 NI/min
Power at 400 V	8 kW
Amperage	20 A
Machinable Max Size	200x200x4000 mm

## MAX SIZE MACHINABLE WITH WORKING PLANE IN POSITION +90°/0°/-90°

### OPTIONS

- Electronic rotation of the working table
- Automatic tool changer with 11 positions
- Tool height measurement system
- Frontal protection
- Full cabin
- Clamp kit
- Tools kit:
  - N.5 ISO30 ER32 tool holders
  - N.5 milling cutters
- End milling kit for ISO30 complete with:
  - ISO30 tool holder for end mill
  - End mill d.160 mm
- Counter-balanced threading tap ISO30 M3-M10
- Automatic positioning of the clamps managed by the CNC

