



BOLERO 5

5 axis machining center



CNC machining center for milling and drilling of components made of aluminum, PVC, light alloys and steel.

STANDARD CHARACTERISTICS

Structure

- Heavily ribbed electro-welded steel basement with upright bridge type gantry assembly
- Thanks to its strength and stability, it guarantees high quality machining and long lasting reliability

Cutting unit

- 8 pneumatic clamps with motorized shifting controlled by CN
- left and right stops



Safety

- Protection cabin for the operator group
- Photoelectric barriers to protect working area
- perimeter protection
- complies with CE safety regulations as standard



Control panel

- OSAI control equipped with HICAM 2 operator interface to upload and run machining programs; list machining and visualization of workpiece lead time
- Operator interface on PC-Windows
- Wifi and teleassistance
- Meets Industry 4.0's requirements



Safety

- Compact electrospindle equipped with:
- High precision ceramic bearings lubricated for life
- HSK63F electrospindle taper that guarantees a strong tool-spindle coupling
- Inverter for correct tool speed selection
- Liquid cooling to guarantee reliability and performance
- Automatic tool changer for maximum flexibility in machining operations
- Micro-droplet tool lubrication with pure oil

Electric cabinet

- IP 55 protection
- air conditioning

Axes (x-y-z)

- Axis movements are controlled by brushless motors through precision ball screws
- Movement on linear guides with automatic grease lubrication

General specifications



500 mm



270mm



17 in S6 (15 in S1 kW)



5.400 / 5.800 kg



10.950x4.100x2.950 mm

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TECHNICAL DATA

Orthogonal axes (x-y-z)

X axis	
Stroke	7.000 / 9.400 mm
Speed	100 m/min
Acceleration	46 m/s ²
Y axis	
Stroke	1.300 mm
Speed	53 m/min
Acceleration	1,3 m/s ²
Z axis	
Stroke	670 mm
Speed	33 m/min
Acceleration	3,5 m/s ²

Pivoting axes (a-c)

A axis pivoting angles	+/- 135°
C axis pivoting angles	+/- 320°

Power supply

Electric power (three phase)	400 V / 50 Hz
Compressed air supply	7 Bar

Machining tolerance

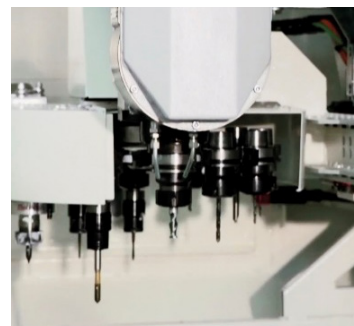
Positioning accuracy	± 0,2 mm
Positioning repeatability	± 0,1 mm

Electrospindle

Electrospindle power	15 kW
Electrospindle bearings lubrication	lifelong
Electrospindle taper	HSK63F
Rotation speed (with inverter)	1.000-24.000 g/min
Table – spindle nose distance	250 mm

Automatic tool change

Tool magazine	carousel
Number of tools	12 positions + 1
Blade diameter	500 mm
Max. tool cone length + tool	160 mm
Max. weight tool cone + tool	10 kg
Max. diam tool HSK63F	10 mm
Collet cones	6



Optionals

- Length extension 2,5 m
- Couple of extra motorized clamps
- Right-hand stop for pendulum machining
- Double central stop
- Bar code reader
- Motorized belt conveyor
- Tool length measuring device
- Touch probe
- Cut and split
- RTCP device to realign the operator group's axes
- USA-CANADA setup (UL-CSA standards)
- Autotransformer for special voltage
- HICAM 3 ADVANCE software license
- HICAM 3 ADVANCE additional software license
- Data import module in NCX format for HICAM 3
- CAMQUIX software license

Machine layout



Working fields



Joseph
machine