

Bolero 4 4 axis machining center





BOLERO

Structure

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

STANDARD CHARACTERISTICS

bridge type gantry assembly

machining and long lasting reliability

Working area

- 8 pneumatic clamps with automatic movement 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

heavily ribbed electro-welded steel basement with upright

thanks to its strength and stability, it guarantees high quality

Control panel

Electrical cabinet

Axes (x-y-z)

IP 55 protection

air conditioning

grease lubrication

- 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 teleassistence
- Meets Industry 4.0's requirements

axis movements are controlled by brushless

movement on linear guides with automatic

motors through precision ball screws



Electrospindle group

Compact electrospindle equipped with:

- high precision ceramic bearings lubricated for life
- ISO30 electrospindle taper that guarantees a strong tool-spindle coupling
- inverter for correct tool speed selection
- air cooling to guarantee reliability and performance
- automatic tool changer for maximum flexibility in machining operations
- micro-droplet tool lubrication with pure oil

General specifications







5 400 / 5 800 kg

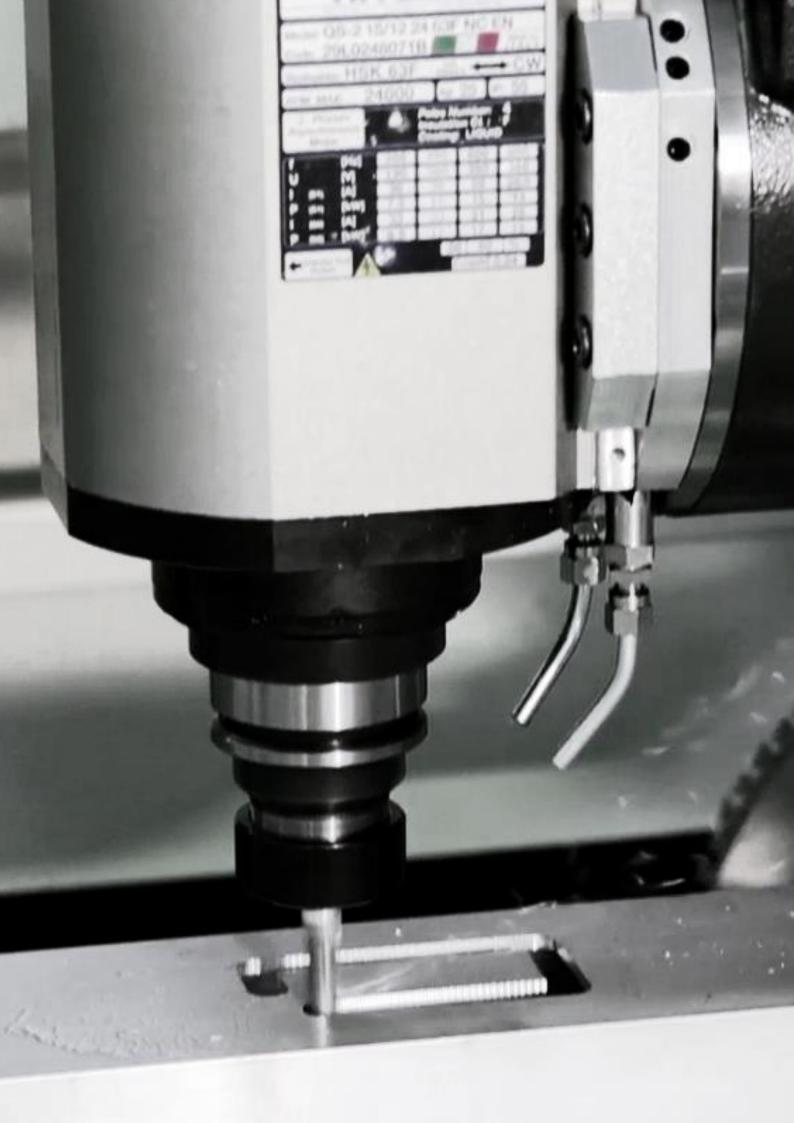


270 mm

9,5 in S6 (8 in S1) kW

5.400 / 5.800 kg

10.950x4.100x2.950 mm



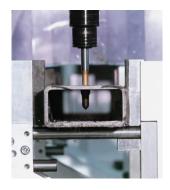


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TECHNICAL DATA

Orthogonal axes (x-y-z)		Pivoting axis (a)	
X axis		A axis pivoting angles	+/- 120°
Stroke	7.000 / 9.400 mm	A asxis speed	6,1 m/min
Speed	100 m/min	A axis acceleration	1,5 m/s ²
Acceleration	4 m/s ²	Power supply	
Y axis		Electric power (three phase)	400 V / 50 Hz
Stroke	1.300 mm	Compressed air supply	7 Bar
Speed	53 m/min		
Acceleration	2 m/s ²	Machining tolerance	
Z axis		Positioning accuracy	± 0,2 mm
Stroke	670 mm	Positioning repeatability	±0,1 mm
Speed	35 m/min		
Acceleration	1,3 m/s ²		

Electronspindle group		Automatic tool change		
Electrospindle power	8,5 kW	Tool magazine	carousel	
Electrospindle bearings lubrication	lifelong	Number of tools	12 positions	
Electrospindle taper	ISO30	Blade diameter	500 mm	
Rotation speed (with inverter)	1.000-24.000 g/min	Max. tool cone length + tool	160 mm	
Table – spindle nose distance	250 mm	Max. weight tool cone + tool	10 kg	
		Max. diam tool HSK63F	10 mm	
		Collet cones	6	



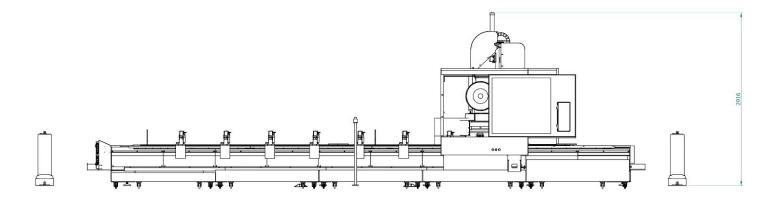


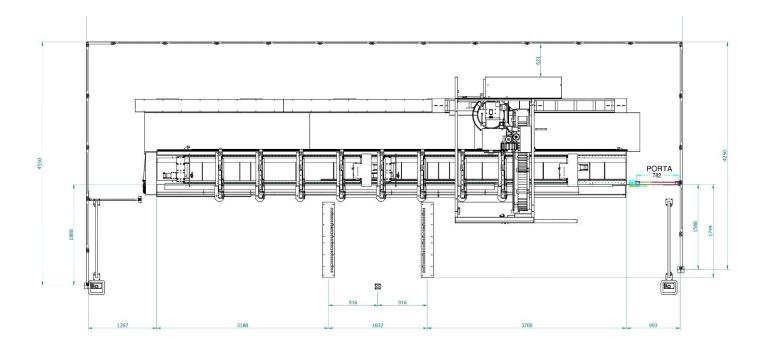
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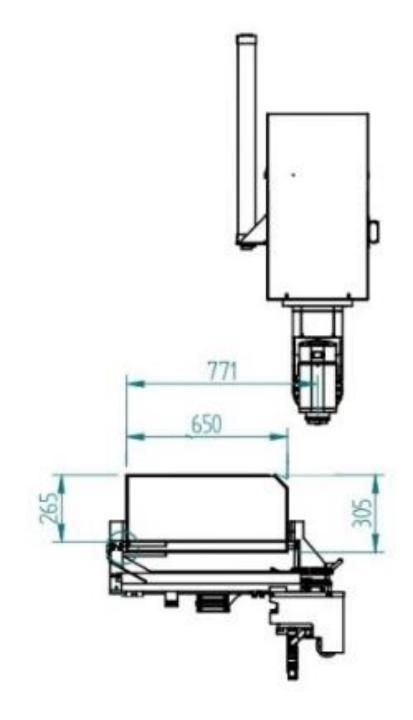
Optionals

- Length extension 2,5 m
- Coupke of extra automatic clamps
- Motorized clamps (instead of automatic clamps)
- Couple of extra motorized clamps
- Right-hand stop for pendulum machining .
- Double central stop
- Bar code reader
- Motorized belt conveyor
- Tool length measuring device н,
- Touch probe
- 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
- CAMQUIX additional software license
- Data import module in Text, XML or CSV formats
- CADXTRACT 3D file detection software
- CADXTRACT additional software license







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