



Bolero 5
5 axis machining center



HITECO CE
Model: PA 2 15/12 24 HP NGEN
Type: 204 04100000
Production: 000000 01/03 04/03
Serial Number: 2
Production 2:
Factory Location:

Matr. TB03691

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

Working area

- 8 pneumatic clamps with motorized shifting controlled by CN
- left stop



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



Electrospindle group

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

Electrical 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



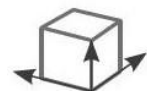
270 mm



17 in S6 (15 in S1) kW



5.400 / 5.800 kg



10.950x4.100x2.950 mm

HITECO

T-HQS



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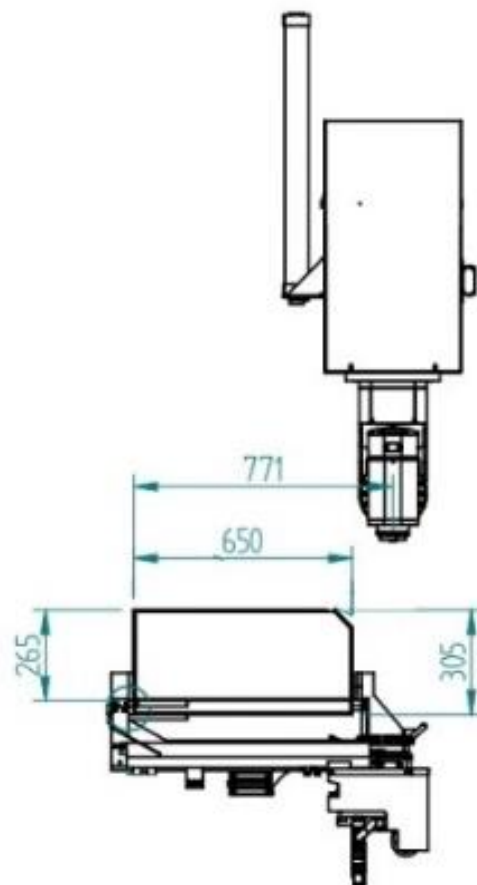
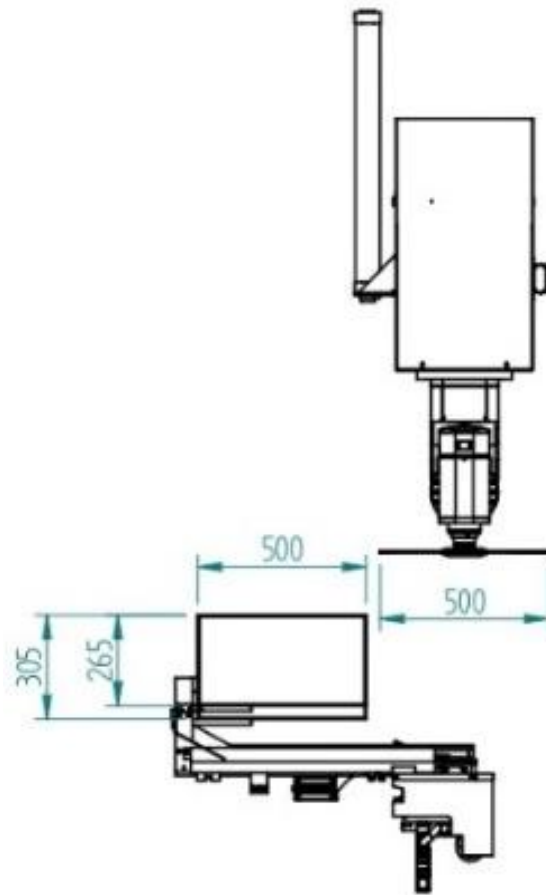
TECHNICAL DATA

Orthogonal axes (x-y-z)		Pivoting axes (a-c)	
X axis		A axis pivoting angles	+/- 135°
Stroke	7.000 / 9.400 mm	A axis speed	6,1 m/min
Speed	100 m/min	A axis acceleration	1,5 m/s ²
Acceleration	4 m/s ²		
Y axis		C axis pivoting angles	+/- 320°
Stroke	1.300 mm	C axis speed	0,5 m/min
Speed	53 m/min	C axis acceleration	9,3 m/s ²
Acceleration	2 m/s ²		
Z axis			
Stroke	670 mm		
Speed	35 m/min		
Acceleration	1,3 m/s ²		
Electrospindle group		Power supply	
Electrospindle power	15 kW	Electric power (three phase)	400 V / 50 Hz
Electrospindle bearings lubrication	lifelong	Compressed air supply	7 Bar
Electrospindle taper	HSK63F		
Rotation speed (with inverter)	1.000-24.000 g/min		
Table – spindle nose distance	250 mm		
		Machining tolerance	
		Positioning accuracy	± 0,2 mm
		Positioning repeatability	± 0,1 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
- CAMQUIX additional software license
- Data import module in Text, XML or CSV formats
- CADTRACT 3D file detection software
- CADTRACT additional software license





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