



**Bolero 5**  
5 axes machining center



Matr. TB03691

**HITECO** CE  
Model: PX-2 15/12 24 63F NG EN  
Code: 25L0415565G 77115  
Installation: HSK 63H  
Motor: 24000 rpm 2.5 kW  
Pulse Number: 2  
Resolution: 0.1  
Chang: 1.00/30

U	V	W	X	Y
0.000	0.000	0.000	0.000	0.000
0.001	0.001	0.001	0.001	0.001
0.002	0.002	0.002	0.002	0.002
0.003	0.003	0.003	0.003	0.003
0.004	0.004	0.004	0.004	0.004
0.005	0.005	0.005	0.005	0.005
0.006	0.006	0.006	0.006	0.006
0.007	0.007	0.007	0.007	0.007
0.008	0.008	0.008	0.008	0.008
0.009	0.009	0.009	0.009	0.009
0.010	0.010	0.010	0.010	0.010
0.011	0.011	0.011	0.011	0.011
0.012	0.012	0.012	0.012	0.012
0.013	0.013	0.013	0.013	0.013
0.014	0.014	0.014	0.014	0.014
0.015	0.015	0.015	0.015	0.015
0.016	0.016	0.016	0.016	0.016
0.017	0.017	0.017	0.017	0.017
0.018	0.018	0.018	0.018	0.018
0.019	0.019	0.019	0.019	0.019
0.020	0.020	0.020	0.020	0.020
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0.030	0.030	0.030	0.030	0.030
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0.099	0.099	0.099	0.099	0.099
0.100	0.100	0.100	0.100	0.100

5 axes CNC machining center for milling and drilling of components made of aluminium, steel and light alloys

## 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/profile data
- Operator interface on 17" Windows PC
- Wi-fi 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
- microdrop tool lubrication with pure oil

### Electrical cabinet

- IP 55 protection
- Air-conditioning unit

### Axes (x-y-z)

- Axes movements controlled by brushless motors through precision ball screws and rack
- Movement on linear guides with automatic grease lubrication

### General specifications



500 mm



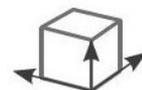
270 mm



17 in S6 (15 in S1)  
kW



5.400 / 5.800 kg



10.950x4.100x2.950 mm

**HITECO**

**T-HQS**



## TECHNICAL INFO

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 <sup>2</sup>
Acceleration	4 m/s <sup>2</sup>		
Y axis		C axis pivoting angles	+/- 320°
Stroke	1.300 mm	C axis speed	9,3 m/s <sup>2</sup>
Speed	53 m/min	C axis acceleration	0,5 m/min
Acceleration	2 m/s <sup>2</sup>		
Z axis			
Stroke	670 mm		
Speed	35 m/min		
Acceleration	1,3 m/s <sup>2</sup>		

### 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 group

Electrospindle power	17 kW (S6)
Electrospindle bearings lubrication	Lifelong
Electrospindle taper	HSK63F
Rotation speed (with inverter)	1.000-24.000 g/min

### Automatic tool change

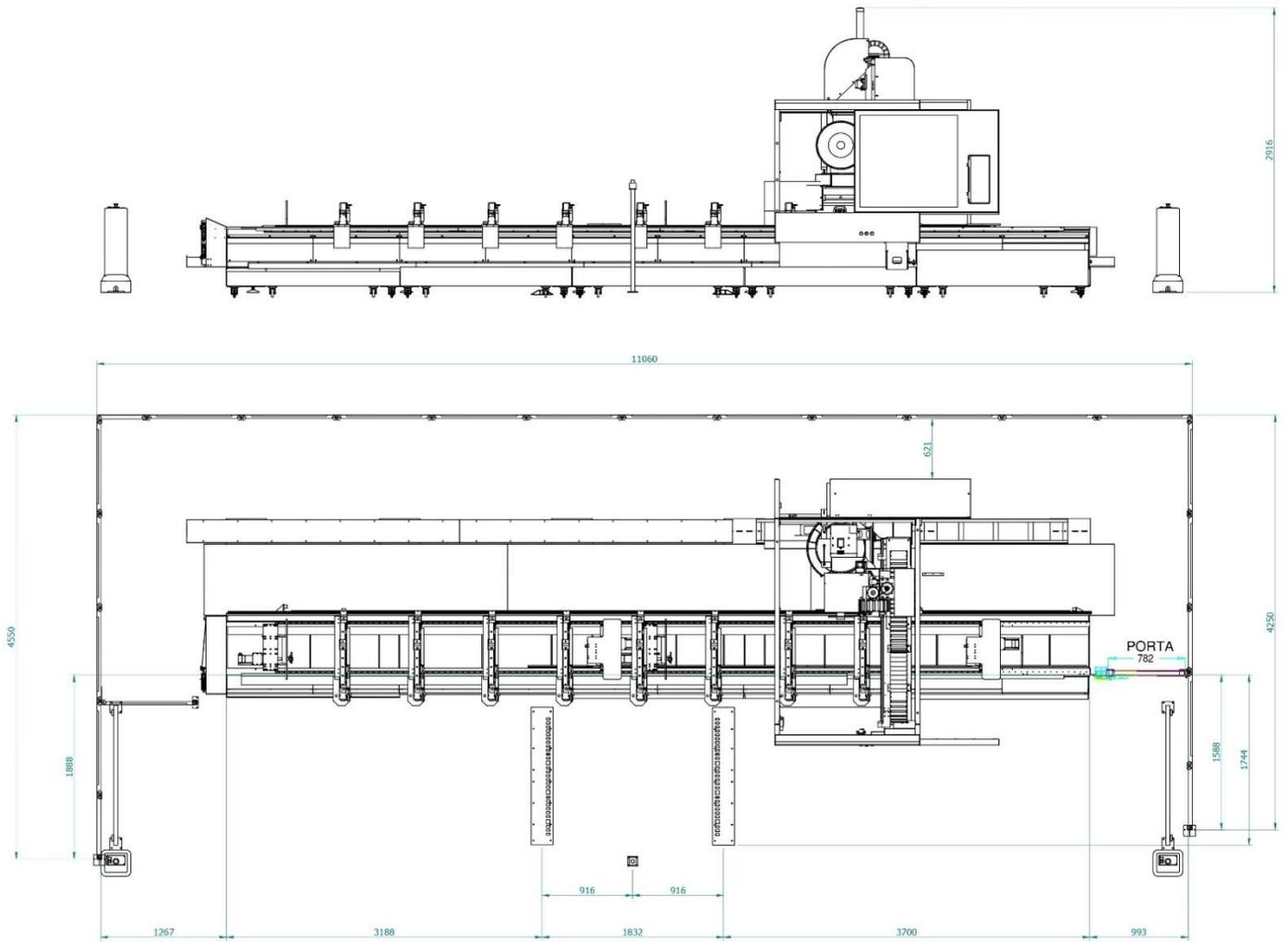
Tool magazine	Carousel
Number of tools	12 positions + 1
Max blade diameter	500 mm
Max cone length + tool	160 mm
Max cone weight + tool	10 kg
Tools included	4 (standard)
Holder clamp cones included	6
Blade Ø 500 mm included	1



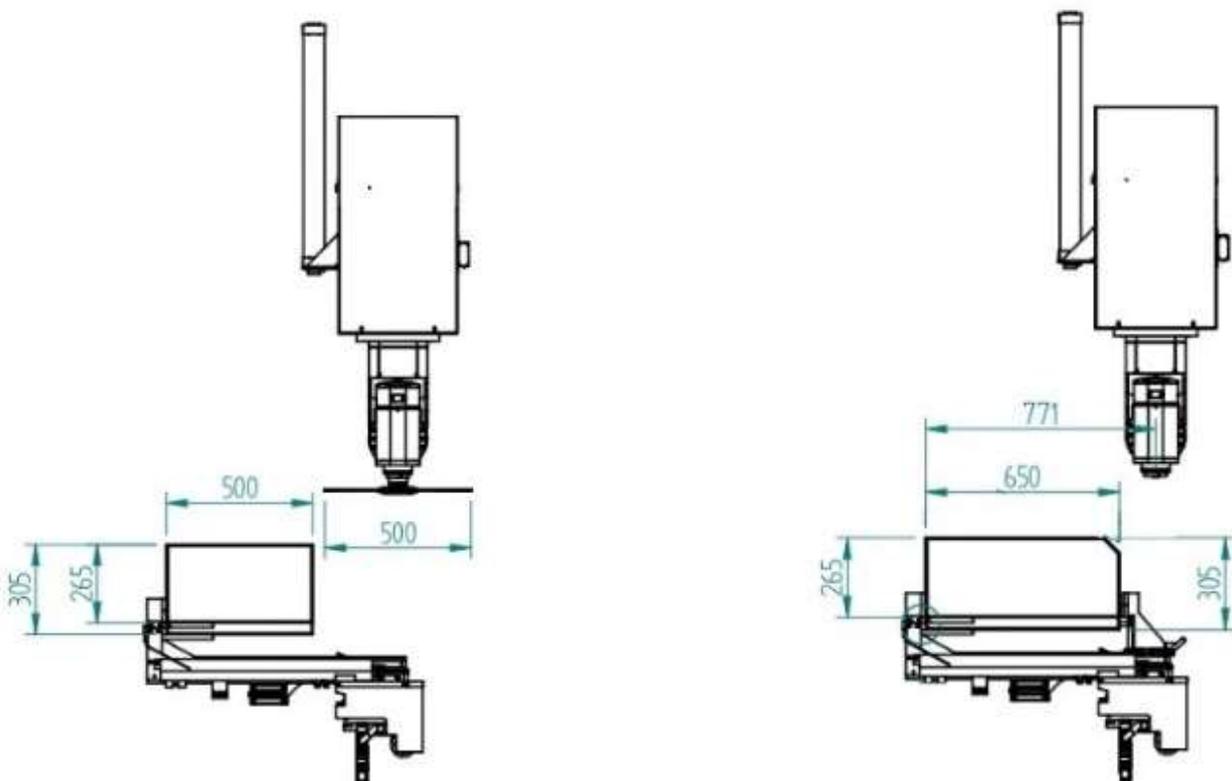
### Optionals

- Extension length 2,5 m
- Extra couple of motorized clamps
- Right hand stop for pendulum machining
- Double central stop
- Bar code reader
- Motorized belt conveyor for swarf
- Tool length measuring device
- Touch probe
- Cut and separate for pendulum mode
- RTCP device for the operator group axes' realignment
- Integral cover with predisposition for suction connection
- Microdrop oil tank 25 l
- HICAM 3 ADVANCE software license
- Additional HICAM 3 ADVANCE license
- Module to import data in NCX format for HICAM 3
- CAMQUIX software license
- Additional CAMQUIX license
- Module to import data in Text, XML or CSV formats for CAMQUIX
- 3D STEP-file detection CADXTRACT license
- Additional CADXTRACT license
- Autotransformer for special voltage (on request)
- UL-CSA compliant components
- Container shipping

## Machine layout



## Working fields





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