

5 AXES HIGH SPEED PORTAL MILLING MACHINE FPT DINOMAX 1 – Year 2016 Macchina installata e visibile in funzione



TECHNICAL DATA

CNC Heidenhain iTNC 640

WORKING AREA:

Longitudinal X-axis travel:	mm 4.000
Transversal Y-axis travel:	mm 2.200
Vertical Z-axis travel:	mm 1.100
Maximum speed with interpolating axes:	m/min 50

WORKTABLE:

Dimensions:	mm 4.500 x 2.500
Height:	mm 300
Load capacity:	T/m ² 15
T-slots for workpiece clamping mm 28 DIN 650 (H12), complete with leveling elements.	
T-slot direction parallel to Y-axis movement.	

CONTINUOUS POSITIONING UNIVERSAL HEAD WITH ELECTROSPINDLE:

Automatic universal head indexed to 360,000 positions (every 0.001°). Rotation is driven by direct drive motors and controlled by the CNC as a positioning axis. Automatic tool clamping. Allows 10° undercut machining. Internal cooling system for bearings and axis motors.

C-axis rotation range:	± 270°
A-axis rotation range:	± 185°
Maximum axis rotation speed:	rpm 30
Maximum torque available on A/C axes:	Nm 450
Axis clamping torque:	Nm 1.400
Spindle power (S1/S6):	kW 22/33
Spindle torque (S1/S6):	Nm 84/128
Maximum spindle speed:	rpm 22.000
Constant power range:	rpm 3.000 to 18.000
Constant torque range:	rpm 10 to 3.000
Tool interface:	HSK-A63 DIN 69893

ELECTROSPINDLE HSK-A100 WITH SEMI-AUTOMATIC CHANGE SYSTEM

Spindle power (S1/S6):	kW 37/43
Spindle torque (S1/S6):	Nm 140/165
Maximum spindle speed:	rpm 15.000
Constant power range:	rpm 2.500 to 12.000
Constant torque range:	rpm 10 to 2.500
Tool interface:	HSK-A100 DIN 69893

CHAIN TOOL MAGAZINE – 55 POSITIONS, HSK-A100 / HSK-A63

Floor-mounted fixed chain magazine located at the rear of the machine, fully enclosed for operator protection, equipped with a vertical tool change arm and automatic tool pre-selection. Fixed-pocket management system.

Hydraulic axis locking

Total tools:	No. 55
HSK-A63 tools (DIN 69893):	
Number of tools:	No. 30
Max tool diameter:	mm 90
Max tool diameter (with adjacent pockets free):	mm 160
Max tool length:	mm 300
Max tool weight:	kg 10
HSK-A100 tools (DIN 69893):	
Number of tools:	No. 25
Max tool diameter:	mm 100
Max tool diameter (with adjacent pockets free):	mm 160
Max tool length:	mm 450
Max tool weight:	kg 20

REQUIRED CONNECTIONS

Maximum installed power:	kVA 177
Maximum current required:	A 235

MACHINE EQUIPPED WITH:

- Heidenhain HR550 remote electronic handwheel
- High-pressure water and air through the spindle
- Semi-automatic electrospindle change system with HSK-A63 and HSK-A100 interfaces
- Various tooling included with the machine
- Renishaw probe
- BLUM laser presetting system
- AUTOCAL automatic head calibration system
- Visormax subscription for remote monitoring
- Electrical cabinet air conditioning unit
- Cooling system for all axes and the electrospindle
- User and maintenance manual and CE declaration of conformity