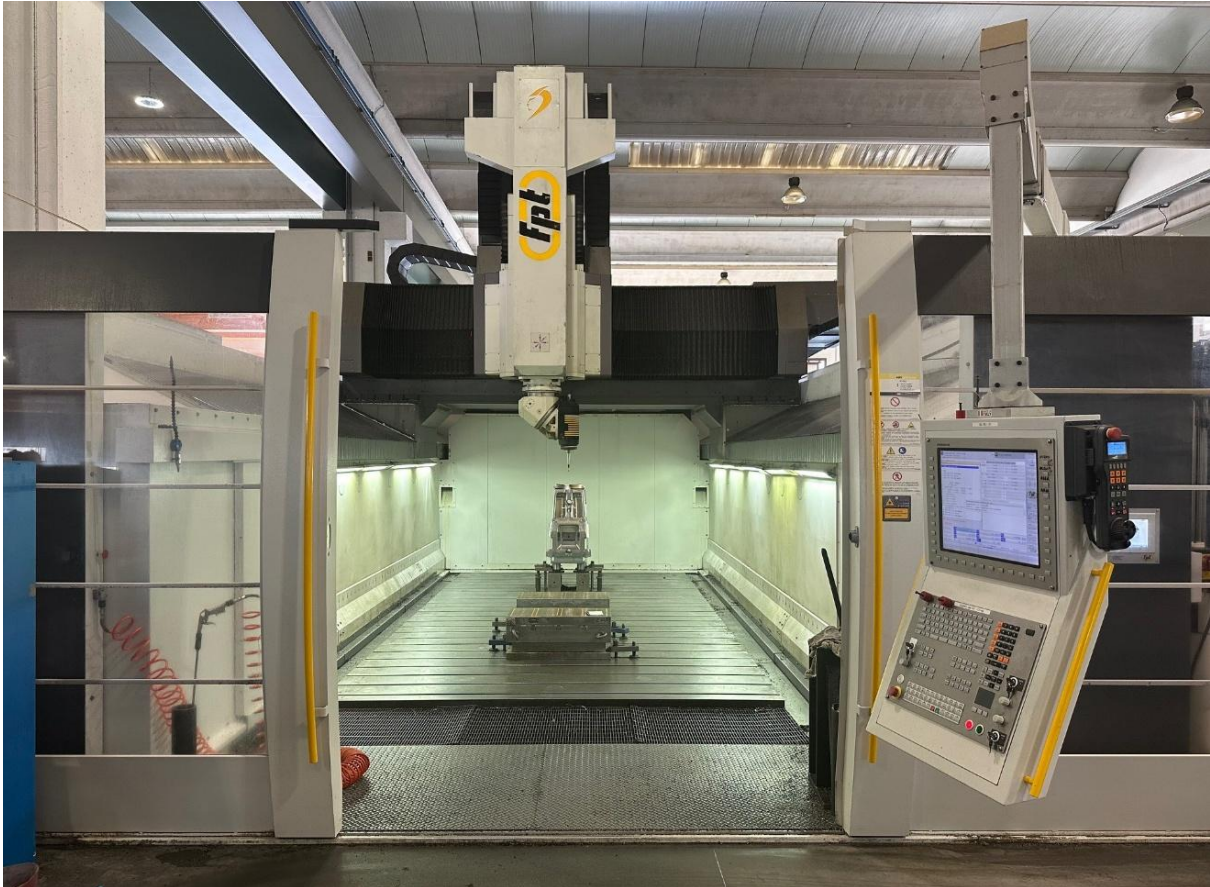


5 AXES HIGH SPEED PORTAL MILLING CENTER FPT DINOMAX 2 - Year 2018



TECHNICAL DATA

CNC Heidenhain iTNC 640

WORKING AREA

X-axis longitudinal travel:	mm 6.000
Y-axis transversal travel:	mm 2.700
Z-axis vertical travel:	mm 1.500
Maximum feed rate with interpolated axes:	m/min 50

WORK TABLE

Dimensions:	mm 6.000 x 3.000
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 MOTOR SPINDLE

Automatic universal indexed head with 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° undercutting. 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 on A/C axes during operation:	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 speed range:	rpm from 3.000 to 18.000
Constant torque speed range:	rpm from 10 to 3.000
Tool interface:	HSK – A63 DIN 69893

HSK – A100 MOTOR SPINDLE WITH SEMI-AUTOMATIC CHANGE SYSTEM

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

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

Floor-mounted chain magazine located at the rear of the machine, enclosed for operator protection, with vertical tool change arm and automatic tool preselection. Fixed-position management.

Hydraulic axis clamping

Total tools:	No. 55
HSK-A63 tools (DIN 69893):	
Number of tools:	No. 30
Max tool diameter:	mm 90
Max tool diameter with adjacent free positions:	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 free positions:	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 coolant (water and air) through the spindle
- Semi-automatic spindle change system with HSK-A63 and HSK-A100 interfaces
- Various tooling included with the machine
- Renishaw probe
- BLUM laser tool presetting system
- AUTOCAL automatic head calibration system
- Visormax subscription for remote monitoring
- Electrical cabinet air conditioning unit
- Cooling system for all axes and motor spindle
- User and maintenance manual and CE declaration of conformity