



PX Series

Vertical milling centre, 3 axes

Performance
Technology
Power
Accuracy





PX Series

Dynamic, Accurate, Compact. Milling centre 3 axes, high performances.

The PX 40 milling centre is dedicated to productivity. Its compact and rigid design allows excellent surface finishes in short cycle times.

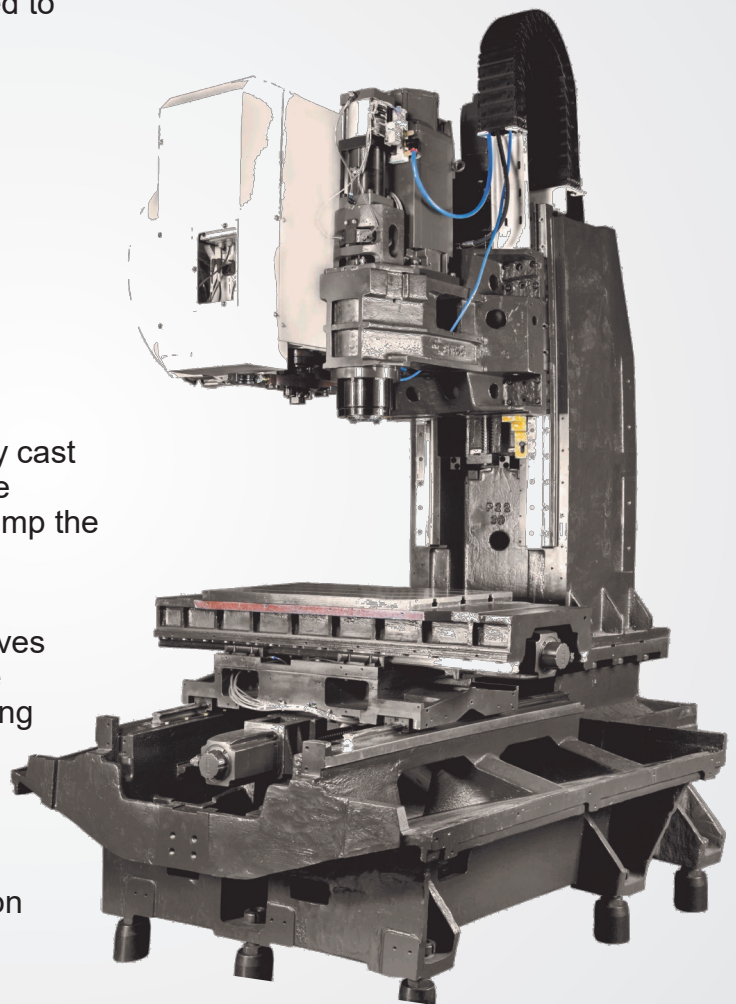
It responds perfectly to the constraints of savings and profitability of manufacturing companies.

This product combines dynamism and machining precision and is perfectly suited to series production lines.

- Machining of hard materials within very short time
- High chips removal capacity
- Very high precision in contouring

Compact and accurate structure

- C-frame structure, made of high quality cast iron and optimised materials to achieve excellent dynamic behaviour and to damp the cutting and acceleration forces
- Compact, space-saving machine
- Fixed bed structure with a crossed moves table and sliding saddle supporting the spindle for high dynamics and machining precision
- High dynamics for rapid direction changes and acceleration
- 3-point levelling machine with multiple support points for equal load distribution and high geometric stability
- Electrical cabinet with IP54 protection



Environment - Ergonomics

- Full machine guarding for complete protection of the machine, operator and environment
- Good accessibility to the workpiece loading/unloading area
- User-friendly, adjustable control panel for the operator
- Chips removal integrated in the bed and at the rear of the machine



Linear axes

- Recirculating ball bearing guide rails
- Direct drive at the end of the ball screw
- Calibrated and preloaded ball screws and bearings to eliminate backlash and increase axis rigidity
- Slides and ball screws protected by telescopic guards
- Automatic lubrication of ball screws and sliding guides

Working area

- Workpiece volume optimised in relation to travels
- Machining of workpieces up to 500 kg
- Workpiece cooling by means of nozzles mounted around the spindle

Numerical controller

- Up to 5 axis control
- Ergonomic design, colour screen and full alphanumeric keypad
- Integrated and easy accessible connection and communication interfaces
- Very high capacity of memory and calculation
- Interactive programming
- Graphic simulation before machining for optimal safety

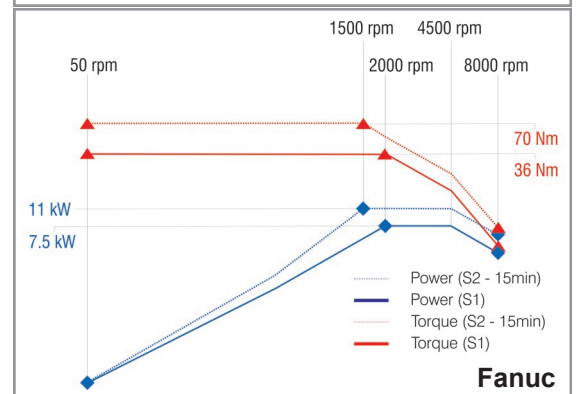
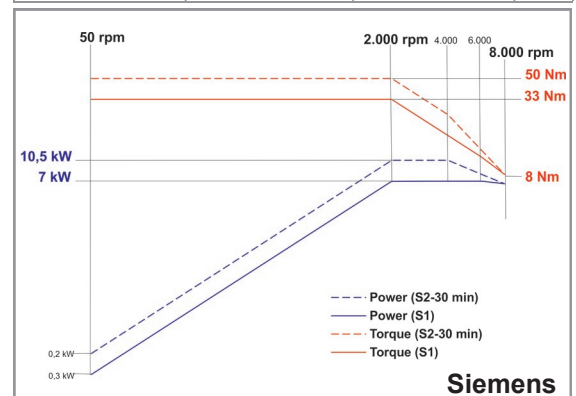
Tools changer

- The automatic tool load/unload is made in vertical position
- Double arm for exchange between changer and spindle

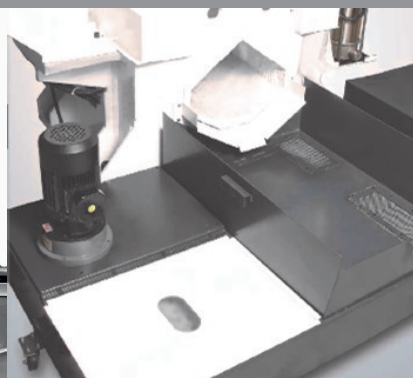
Spindle

- Angular contact ball bearing guidance, lifetime lubricated
- Excellent absorption of cutting stresses
- Allows all roughing operations due to its high torque, and finishing operations due to its speed

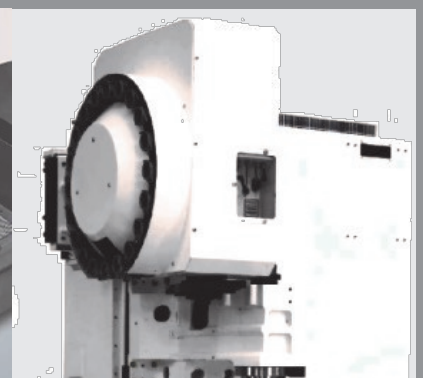
PX 40		
Spindle taper	ISO 40	
Rotating speed	50 - 8.000 rpm	
	Siemens	Fanuc
Power (S6/S1)	10,5 / 7 kW	11 / 7,5 kW
Torque (S6/S1)	50 / 33 Nm	70 / 36 Nm
Characteristic speed	2.000 rpm	1.500 rpm



Table



Chips removal



Tools changer

Technical characteristics

Linear axes X / Y / Z		PX 40
Travel X	mm	760
Travel Y	mm	510
Travel Z	mm	510
Rapid feedrates	m/min	40 / 40 / 32

Table		
Table size	mm	915 x 460
Max. admissible load on table	kg	500
T-slots		3
Size of slots	mm	14
Distance between slots	mm	125
Distance spindle nose / top table	mm	100 - 610

Spindle		Siemens	Fanuc
Rotating speed	rpm	50 - 8.000	
Spindle taper		ISO 40	
Power (S6 / S1)	kW	10,5 / 7	11 / 7,5
Torque (S6 / S1)	Nm	50 / 33	70 / 36
Characteristic speed	rpm	2.000	1.500

Accuracy (VDI DGQ 3441)		
Linear axes (X/Y/Z)		
- Positioning (P)	mm	0,010
- Repeatability (Ps medium)	mm	0,005

Tools changer		
Qty of housings		20
Tool length	mm	250
Ø tool (contiguous / not contiguous)	mm	80 / 125
Tool weight	kg	7

Overall measurements (Door opened + conveyor)		
Width	mm	3.410
Depth	mm	2.770
Height	mm	2.810
Weight of the machine	kg	4.300

Equipments as option

Medium pressure coolant 20 bar - Air blast - Part probe - Tool probe - Dividing plate 4th axis - Chips conveyor



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