

TRAVELLING COLUMN MILLING MACHINE SACHMAN MOD.PX 120 CNC UNIT HEIDENHAIN TNC-530



PX 120 is the Sachman travelling column milling machine with a moving column, characterized by its large removal capacity and high precision and reliability.

The morphology of the machine guarantees static and dynamic precision independent of the weight of the machined pieces.

The rugged cast iron slide is fitted with hardened guideways that slide on counter-ways lined with low friction material. The slide is securely supported by the structure of the vertical axis in order to operate in extremely harsh conditions and is fitted with a hydraulically controlled balancing system. The modular cast iron bed is fitted with guideways and recirculating roller blocks. The column, also made of cast iron, rests on the slide of the X-axis which is driven by a rack-pinion system with dual-drive technology. The cast iron vertical slide moves by means of counter-ways lined with low friction material, on large hardened guide ways integral with the column. All the electrical, hydraulic and pneumatic cabinets, the tool changer, and operator station are positioned on the slide of the X-axis, thus reducing the footprint of the PX 120.

A variety of rotary tables can be installed in front of the PX120. Square and rotary or rotary-traverse tables can accompany the flat, cast iron table. The design of the machine allows for dual zone machining or the ability to work in a cell with other machines designed for other operations. Together with the horizontal spindle version, it is possible to use oil-cooled universal indexed heads, Kosmo and Kosmo 3, that can support and command high-speed electric spindles for finishing operations. The modular chain type tool changer is mounted to the column and is fitted with an exchanger arm that allows tool changes with the spindle in both the vertical and horizontal position.

TECHNICAL CHARACTERISTICS

AXIS

• X axis travel	mm.	6000
• Y axis travel	mm.	1200
• Z axis travel	mm.	2000
• rapid feed X axis	mm/min	20000
• rapid feed Y axis	mm/min	15000
• rapid feed Z axis	mm/min	15000
• acceleration	m/sec ²	3,5

WORK TABLE (STOLLE PLANS)

• stolle floor dimensions	mm.	4000x2000
• number of floors stolle	n°	1
• loading	Kg/m ²	10000

ROTARY TRANSLATING TABLE

• rotary table diameter	mm.	2000x2000
• load capacity with distributed load	Tonn.	20
• transverse table travel	mm.	1500

AUTOMATIC HEAD

• head model	type	KOSMO 3
• B-axis min. index angle	gradi	0,02°
• A-axis min. index angle	gradi	2,02°
• spindle motor	KW	46
• spindle speed	rpm	5000
• spindle nose	ISO	50

TOOL MAGAZINE

• number of tools in ATC	n°	60
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GENERAL DATA

• floor space	mm.	11960x5900
• height machine	mm.	4029

STANDARD ACCESSORIES

- CNC Unit Heidenhain TNC-530
- 4th and 5th axis 2000x2000 x 1500 CNC controlled rotary translating table
- Chip conveyor chaine type
- Linear scale for all axis
- N. 1 Stolle floors
- Automatic head KOSMO 3 with 2 axes, divisions on the two joints every $0.02^\circ \times 0.02^\circ$
- Coolant through spindle high pressure
- Tool magazine with 60 positions chaine type
- Auto lubrication system
- Operator and maintenance manuals
- CNC manuals
- CE Mark
- Year of construction 2007, delivery and start-up of the machine in 2009