

TECHNICAL DATASHEET

CNC – 5-AXIS-PORTAL MILLING MACHINE

Manufacturer	FPT Industrie
Type	Stinger
Control	SIEMENS Sinumerik 840D sl
Built Working Hours	2012 only 4.340 hours



This Stinger from Italian premium milling machine manufacturer FPT Industrie impresses with its dynamics and a wide range of applications in the most diverse industries. It is the ideal machine for tool and mold making, demanding tasks in general mechanical engineering and is equally adept at producing complex parts in 5-sided machining and on inclined planes for aerospace technology.

The universal milling head and the rotary table are each equipped with an NC swivel axis. This solution enables the largest possible machining volume in relation to the traverse paths. The patented milling head concept enables work from below and undercut work up to 10°.

Travels

Table movement (X-Axis)	1.750 mm
Cross movement (Y-Axis)	1.400 mm
Vertical movement (Z-Axis)	550 mm

Working Area

Clamping surface	1.000 x Ø1.200	mm	
Max. Workpiece weight	2.500	kg	
Clearance between the uprights	1.420	mm	
Rotary movement C-axis (table)	endless		Direct Drive

Feeds

X-, Y- and Z-Axis, stepless	35.000	mm/min.
Rapid traverse in X / Y / Z	35.000	mm/min

Universal-Milling Head TULCE

Power, max.	18	kW	
Torque, max.	80	Nm	
Speed, max.	18.000	min-1	
Movement angle A-Axis	+/- 185	°	Direct Drive
Tool holder	HSK A63		

Automatic Toolchanger

Number of Pockets	60
Number of Chains	2

Connection Data

Operating Voltage	3 x 400	V
Operating frequency	50	Hz
Total power consumption	50,1	kW

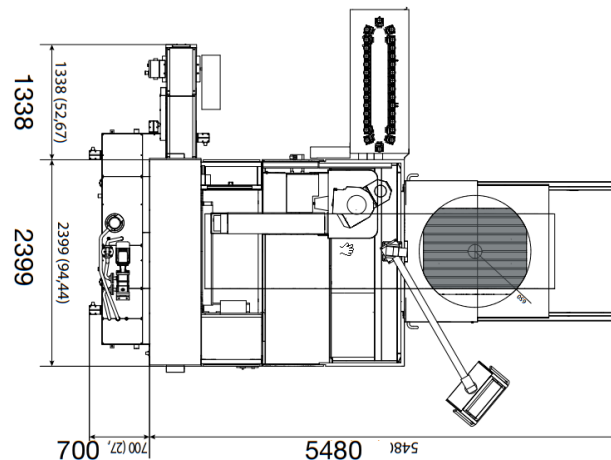
Dimensions and weight

Required floor space	6,2 x 3,8	m
Total height	4,3	m
Machine weight	20.000	kg

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Vertikal 5-Axis-Portal Milling machine

FPT Stinger



Equipment and accessories

- Compact portal milling machine STINGER180 - Installation without contoured foundation
- CNC control Siemens SINUMERIK 840D solution line
- TULCE HSK-63A head with integrated, direct-driven A-axis
- Stepless and endlessly rotatable milling table $\text{Ø}1,200 \times 1,000 \text{mm}$
- Omlat spindle, max. speed 18,000 min⁻¹
- Axis drives via precision ball screws and digital servomotors
- Siemens electronic manual control unit
- Swivel control panel for machine operation in front of or behind the machine
- Automatic tool changer with 60 magazine positions
- Coolant tank with two pumps for external and internal coolant supply
- Chip conveyor in the work area, ejection on the right, height approx. 1,000 mm
- Telescopic steel cover of the X-axis
- Fully encapsulated machine housing
- Manual sliding door on the left and right operating side of the machine open at the top for loading by crane
- Hydraulic system
- Cooling unit for milling head cooling
- Work area lighting
- Network connection
- FPT Autocal - automatic calibration of the milling head incl. ceramic ball
- Operating hours: approx. 7,970h | working hours approx. 4,340h

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high quality machine tools

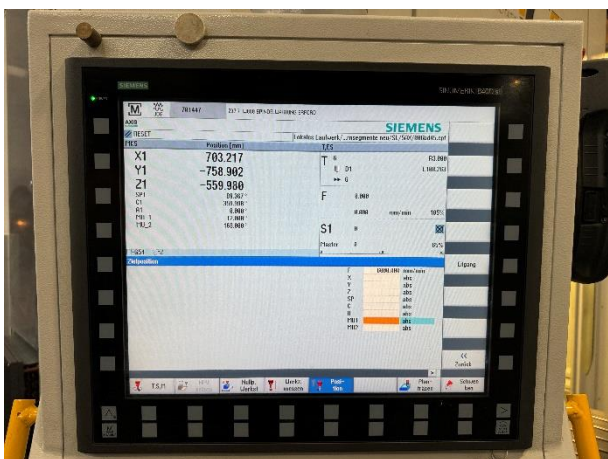
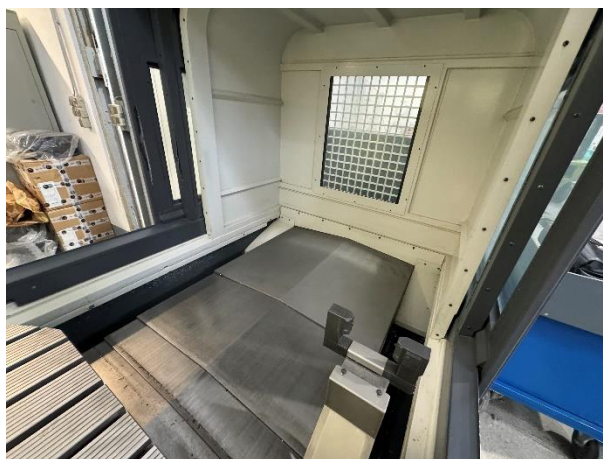
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