

TECHNICAL SPECIFICATION

Three Axis CNC vertical milling machine

S.No	Description	Specification
1.	Machine Tool Builder	Brand/Company: Required
		Experience: 15 Years or more of assembling CNC machines.
		Global Presence: Sales/ Dealer Network in at least 5 countries
		Factory Brochure: Required
		Customer reviews: Verifiable from at least five global customers.
		Origin: Required
2.	Condition	New
3.	Application	Precision work on SS, Steel Alloys
4.	Travel	X:500~600 Y:350~450 Z:350~450 (mm)
		Spindle Nose to Table Distance (lower end): 150 mm or less
5.	Feed	Rapid X/Y/Z:20/20/20 (m/min) or more
		Cutting X/Y/Z:1-8000 (mm/min) or more
6.	Table	Length: 100-200 mm more than X travel
		Width: Greater or equal to Y travel
		Load:200 Kg or more
7.	Base/Casting	Material: Cast Iron
		Source: In house or Outsource
		If Outsource, factory with experience of at least 10Years Attach brochure
8.	ATC	Arm Type 16 Tool or more
9.	Max Tool Diameter	60 mm or more (with adjacent tool)
10.	Tool Shank	BT-30/BT-40
11.	Max Tool Weight	3 Kg or more
12.	Repeatability	+/- 0.005 mm or better
13.	Positioning Accuracy	+/- 0.005/300 mm or better
14.	Spindle	Brand: Reputed brand of at least 10Years of global presence. Attach brochure
		Belt Drive/ Direct Drive
		RPM:10,000 or more
		Taper: No 30/40
		Pull Stud: BT30-45°/BT40-45°
15.	Spindle Motor	4 KW (Continuous) or more
16.	Linear Guides	Required on all axis
		Brand: Reputed brand of at least 10Years of global presence. Attach brochure
17.	Controller	FANUC 0i-MF Beta Series or higher

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S.No	Description	Specification
18.	Work piece measurement system	Renishaw (Compatible model)
19.	MPG Remote	Required
20.	CF Card/ USB Input	Required on front panel
21.	Chip Conveyer	Required (chain type) with bucket
22.	Transformer	Required
23.	Spindle Cooler	Required
24.	Coolant Tank	Required (Rear located)
25.	Auto Lubrication	Required
26.	Heat Exchanger	Required for electrical cabinet
27.	Leveling Bolts	Required
28.	Machine Enclosure	Fully enclosed
29.	Coolant Gun	Required
30.	Air Gun	Required
31.	LED Working Lamp	Required
32.	Toolkit	Required
33.	Manuals	Operation & maintenance manual required
34.	Spare parts Availability	Guarantee of availability for at least 10 years
35.	Technical Support	Required for at least 5 year
36.	Warranty	1 Year or more
37.	Inspection Report	Required at delivery
38.	Training	Operation and programming for two persons
39.	Spare Parts (To be quoted separately)	FANUC Spindle and Servo Amplifier unit

Note:

- 1) Reply in tabular form against each specification is required; machine brochures alone will not be accepted.
- 2) C&F Karachi charges must be mentioned at end of quotation.