

S.No	Description	Qty
1	CNC Horizontal Turning Centre Technical Specification	01
Note. CNC Horizontal Turning center is required to produce parts of small sizes with diameter range 5 to 20mm and length 5 to 100mm with tolerance control of +-5 microns with brass, aluminum and stainless steel material. Therefore, machine with high thermal stability, rigidity and good heat dissipation may be offered.		
1	Work area	
	Maximum turning diameter	Ø 100-120 mm
	Maximum bar stock diameter	≤ 45mm
2	DRIVES	
	X & Z-axis motor	>1.2 kW
	Travel in Z (not more than)	350 mm
	Travel in X (not more than)	100mm
	Feed travel X/Z	15/24 m/min
	Positioning accuracy for X & Z (VDI 3441)	Upto 20 µm
	Rapid travel X/Z	30/30 m/min
3	MAIN SPINDLE	
	Max spindle speed	>5000 RPM
	Maximum drive power	>5.5 kW
4	C-AXIS (CNC CONTROLLED)	
	Resolution	0.001°
5	CONTROL	
	FANUC Oi-TF or latest including "manual guide -I"	
6	TOOL TURRET	
	Number of tool stations	>12
	Min. No of driven tools	>4
	Driven tool motor	>1.2 kW
	Driven tool speed range	0-6000
7	MACHINE ACCURACY	
	Machine accuracy in accordance with ISO 230/VDI	
8	CHIP EVACUATION	
	Chip conveyer	Chain type
	Chip conveyer control	Manual + automatic
9	PART CATCHER	
	Operated @ air pressure	6-7 bar
10	BAR LOADER	
	Bar feeding	Manual + Automatic
	Operated @ air pressure	6-7 bar
	Bar length	100-600 mm
11	POWER SUPPLY	
	Mains	380V ± 10%, 3 phase, 50 Hz
12	REQUIRED ACCESSORIES	
	<ul style="list-style-type: none"> Electronic hand wheel Air conditioning system for electrical cabinet High pressure coolant pump Power coolant chuck incl. draw tube compatible with spindle nose (Qty 01 No) Industrial coolant chiller compatible with coolant flow rate (Qty. 01 No) Machine installation kit 	
13	SPARE PARTS	
	<ul style="list-style-type: none"> 5 YEARS MECHANICAL SPARE PARTS 5 years electrical and electronics spare parts. Detail of all spares with documentation and prices. 	

14	STANDARD DOCUMENTATION (ENGLISH) Hard copies -03 sets <ul style="list-style-type: none"> Machine operational manuals. Programming manuals Electrical/ electronics maintenance manuals Electrical/electronics detailed parts catalogue Mechanical maintenance manuals Machine assembly and sub assembly drawing Machine initialization data and parameter list Alarm messages and fault diagnostics manual Machine test reports Soft copies (01 set) <ul style="list-style-type: none"> Electrical drawings PLC program lists LADDER/STL Re loadable machine initialization data and machine parameters
15	PRE-DELIVERY INSPECTION AND TRAINING <ul style="list-style-type: none"> At least 02 weeks inspection and training program for 02 engineers would be carried out at manufacture's premises including installation/commissioning, operation, programming, mechanical and electrical/electronic maintenance . The machine will be rejected if not found in accordance with contract clauses without any liability on the buyer's side.
16	PACKING <ul style="list-style-type: none"> Packing sea case basic machine alongwith all accessories
17	Country of Origin CHINA <ul style="list-style-type: none"> China subject to the following conditions: Machines from reputable Chinese firms having manufacturing experience of more than fifteen years. And must have collaboration with renowned European/USA firms Manufacturer must follow international standard of machine accuracy e.g ISO/VDI/equivalent standard Manufacturer must have ISO certification for production of high quality machines CE compliance certificate must be provided along with quotation OEM certificate must be provided alongwith quotation Proofs may be attached with quotations Machine's brochure/catalogue is mandatory with quotation