

Technical Specification of CNC Milling Centre:

PC-controlled 3/4 axis with interchangeable control CNC – machining center suitable for 400 volts power supply with conforming to the following specification.

Siemens HMI Operate
 GE Fanuc Series 31i
 Heidenhain TNC 426/430
 FAGOR 8055

(Technical data of the machine NOT less then mentioned below)

Working area

Travel X	[mm]	350
Travel Y	[mm]	250
Travel Z	[mm]	300
Effective Z-stroke	[mm]	300
Distance spindle nose – table surface	[mm]	120 - 420

Milling table

Clamping surface (L x W)	[mm]	520 x 300
Max. table load	[kg]	100
5 T-slots according Din 650	[mm]	12
Distance of T-slots	[mm]	45

Milling spindle

Bearing		Spindle bearing
Front bearing diameter	[mm]	ø 45
Tool holding fixture		SK30
Draw bolts		M12
Tool clamping		Automatic

Milling spindle drive

Asynchronous AC-motor, power (100% / 40% duty cycle)	[kW]	4,9 / 6,8
Speed range (step less)	[rpm]	150-10,000
Max. torque (100% / 40% duty cycle)	[Nm]	23 / 34

Feed drives (Servo motors)

Feed	[m/min]	0 – 10
Rapid traverse in X/Y/Z axis	[m/min]	24
Max. feed force	[N]	3000
Positioning variation according to VDI 3441 in X / Y	[mm]	0.004
Positioning variation according to VDI 3441 in Z	[mm]	0.004

Tool system (20 tool magazine)

Tool magazine		Drum turret
Number of tool stations		20
Entry force	[N]	1040
Max. admissible tool weight	[kg]	5
Max. tool diameter (* with free adjacent magazine place)	[mm]	63 (*80)
Max. tool length	[mm]	200
Turret indexing time	[s]	2.5

Lubrication system

Linear roller and ball screw spindle		Automatic oil-lubrication
Main spindle bearing		Lifetime grease lubrication