



**Pacemaker Solutions**  
When performance matter



**CNC Machine Tool**  
One End Solutions

- CNC Turning Machine
- CNC Lathe Machine

## CNC Machine Manufacturing



	CNC Flatbed Turning CNC Lathe	PMF 165 / 300 / 500	PMF 200 / 300 / 500 750 / 1050	PMF 250 / 750 1050 / 1500	PMF 300 / 750 / 1050 1500 / 2000
Capacity	Swing Over Bed	220 / 250 / 300	250 / 300 / 320	275 / 300 / 350	400 / 450 / 500
	Maximum Turning Length	300 / 500 / 750	500 / 750 / 1050	750 / 1050 / 1500	750 / 1050 / 1500 / 2000
	Std. Turning Diameter	165	200	300	350
	Max. Turning Diameter	220	250	250	400
	CNC Controller	Siemens / Fanuc	Siemens / Fanuc	Siemens / Fanuc	Siemens / Fanuc
Slide	X Axis Rapid	20 m/min	20 m/min	20 m/min	20 m/min
	X Axis Ball Screw	25 x 10	25 x 10	32 x 10	32 x 10
	X Axis Motor Torque	4 NM	4 NM	8 NM	8 NM
	Z Axis Rapid	10 m/min	10 m/min	10 m/min	10 m/min
	Z Axis Ball Screw	32 x 10	32 x 10	40 x 10	50 x 10
	Z Axis Motor Torque	4 NM	4 NM	8 NM	12 NM
Main Spindle	Spindle Motor Rating	5 HP	7.5 HP	7.5 / 10 HP	10 / 15 HP
	Spindle RPM	3000	3000	3000	3000
	Spindle Nose	A24 / A25	A25 / A26	A26 / A28	A28
	Spindle Bore	35 / 50	35 / 50	50 / 60	60 / 75
Chuck Diameter	165 / Hydraulic Power Chuck	200 / Hydraulic Power Chuck	250 / Hydraulic Power Chuck	350 / Hydraulic Power Chuck	
Turret	Turret Size	Pragati SQTP-190 / BTP-63	Pragati SQTP-190 / BTP-80	Pragati SQTP-190 / BTP-80	Pragati SQTP-200 / BTP-80
	No of Station	4 / 6 / 8	4 / 6 / 8	4 / 8	4 / 8
	Tool Size	20 x 20	25 x 25	25 x 25	25 x 25
	Boring Bar Capacity	32 mm	40 mm	40 mm	40 mm
Tailstock	Quill Stroke	60 / 80 mm	60 / 80 mm	80 / 100 mm	80 / 100 mm
	Positioning Uncertainty	0.01 mm	0.01 mm	0.01 mm	0.01 mm

# CNC FLAT BED Turning Center



## FEATURES

- Linear Guide Ways
- C3 standard ball screw
- Hardenbed Flamproof
- Graded casting body
- Automatic lubrication system
- Three colour warning light
- Soft and hard jaw with chuck
- Coolant system
- 2 year hardware warranty on Siemens hardware
- 7.5"/10" color LCD display on controller
- Graphically guided CNC programming
- Easy data transmission via USB stick
- 4 / 6 / 8 / 12 Station Tool Turret
- Higher Bed width for better vibration absorption



### Structure:

Machine bed is made using high quality 25 graded casting. It is thermally seasoned for stress relieved. Machine structure is flat. It is better for long turning job. Also machine bed & structure is well design using ribbed structure for more rigidity. All machining, drilling & tapping works are done on high accurate VMC & boring machines.

### Spindle:

Spindle is heart of machine. It is technically design using as per IS standard. In spindle we use high precise angular contact bearing sets for good run out accuracy. Spindle is assembling in very clean environment room. Also spindle head stock is very rigid for with stand better cutting force and thermal expansion.

### Turret:

3 piece face gear allows turret to be indexed without lifting. Clamping through Cam and Disc spring ensures consistent rigid clamping. Fast unidirectional indexing for reduce cycle time. Internal coolant allows user to set coolant force on all tools.

### Axes:

X and Z Axes are LM Guide supported for friction less sliding. In both axes high precision ball screw use for better positioning accuracy. Also ball screws are mounted on standard mounting block with angular contact bearings. Automatic lubrication is provided for ball screws & LM Guides.

### Tailstock:

Tailstock is hydraulically operated for better force. Tailstock movement is supported on V and flat guide ways.

# CNC Milling Machine



Specification	PMM - 100	PMM - 150	PMM - 200
Max. Drilling Dia.	13 mm	20 mm	25 mm
Max. Milling Dia.	13 mm	20 mm	25 mm
Max. Tapping Dia.		M8	M12
Spindle Speed	3000 rpm	3000 rpm	3000 rpm
Spindle Centre to Column Distance	189 mm	194 mm	210 mm
Spindle Nose to Table Distance	205 mm	215 mm	230 mm
Spindle Tapper	ER 20	ER 25	ER 32
T- slot Size (NxWxD)	3 / 12 / 40 mm	3 / 12 / 40 mm	3 / 12 / 40 mm
Worktable Size	400 x 140 mm	400 x 140 mm	500 x 180 mm
X axis travel	220 mm	220 mm	230 mm
Y axis Travel	120 mm	120 mm	150 mm
Z axis Travel	200 mm	200 mm	400 mm
Main Motor Power	400 W	1 KW	1 KW
Main Motor Type	Brushless motor	Servo Motor	Servo Motor
Feeding Motor Torque	2.6 / 2.6 / 3.2 N.m	2.0 / 3.0 / 3.0 n.m	
Feeding Motor Type	Stepper motor with open loop	Stepper motor with closed loop, Z axis with brake	
Controller System	Mach3	After-CNC 1500 MDC	After-CNC 1500 MDC
Overall size (LxWxH)	590 x 590 x 780 mm	1100 x 600 x 1380 mm	
N.W / G.W	90/115kgs	170 / 200 kgs	

# Small CNC Milling Machine

## FEATURES

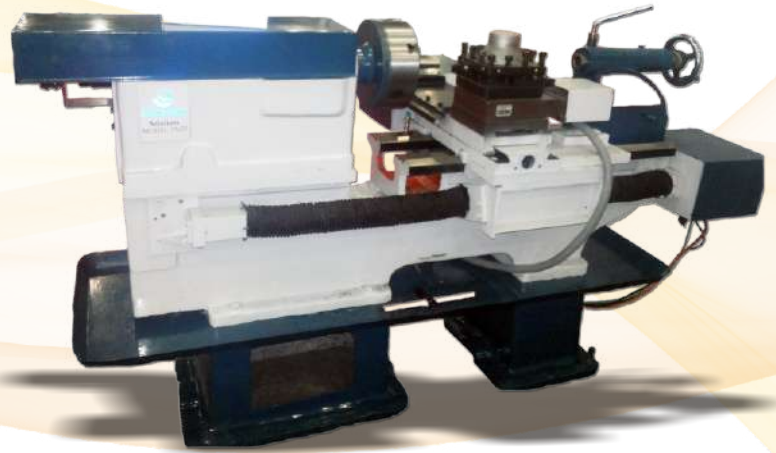
- Small size but high precision
- DC brushless motor
- Ballscrew
- Liner guideway
- Manual and automatic easy operation
- Mach 3 controller, USB connection



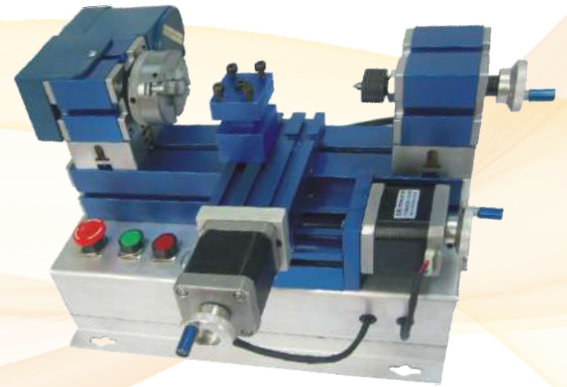
Model	
X axis travel	220 mm
Y axis Travel	120 mm
Z axis Travel	200 mm
Drilling Capacity	13 mm
T- slot Size (NxWxD)	M 12
Table size	400*140 mm
Spindle Speed	0-3000 rpm mach 3 control
Spindle Motor	3 Phase DC type brushless motor with driver 550w
Spindle	Er20 no power spindle
Spindle Centre to Column Distance	150 mm
Spindle Nose to Table Distance	20 mm
Screw	1605 ball screw with double nuts to remove return difference
Guide way	15 liner guideway, Double raw ball slides for each guideway
Step Motor Torque	X; 2.5N.M Y ; 2.5 N.M Z: 3.5N.M
Machine size	590*590*760 mm
Machine Weight	84 KG

- Lathe Retrofitting
- Milling Machine Retrofitting
- Boring Machine Retrofitting

“Retrofitting” Refers To The Addition Of New Technology Or Features To Older Systems.



## Special Purpose Machine



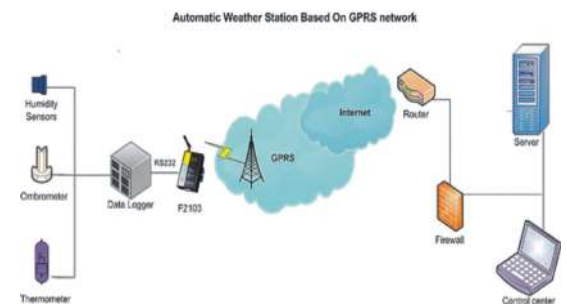
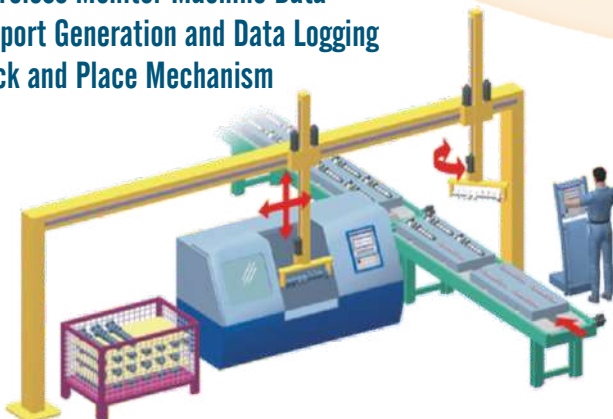
## CNC Machine Tool Auxiliary and Components



- CNC Controller
- CNC Panel
- CNC Handwheel
- Motion Product
- AC Induction servo spindle motor
- Laser Calibration and Alignment Service

## CNC IT Solutions And Robotics

- Wireless Monitor Machine Data
- Report Generation and Data Logging
- Pick and Place Mechanism





**CNC Lathe | CNC Flatbed Turning Machine | CNC Milling**

**Special Purpose Machine | CNC Controller And CNC Panel | CNC IT Solutions**

**CNC Retrofitting And Refurbishment | Laser Calibration And Alignment**

**Machine Tool Component Suppliers | Annual Maintenance Contract**



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