



FP4ME Technical		
MOVING AXES		
Longitudinal travel (X)	mm	485 (~ 20")
Cross travel (Y)	mm	385 (~ 16")
Vertical travel (Z)	mm	380 (~ 16")
Quill stroke Z axis	mm	80 (3")
Horizontal traverse of Headstock (ARM)	mm	150 (6")
Swivel of Headstock		0 to ±90°
MAIN SPINDLE		
Power / Speed of motor	Kw / rpm	4 / 1400
Spindle speed range	r.p.m	5 - 3000
Number of spindle speeds		3
Spindle taper		BT40
Hydraulic Tool Clamping	w / bar	0.74 /120
TABLE		
Clamping surface of Vertical Table	mm	842 x 274
Clamping surface of horizontal Table	mm	800 x 460
Max. load in Vertical Table	Kg	600
Max. load in Horizontal Table	Kg	400
Number & Width of T-slots in horizontal Table	mm	4 (14H7)
Number & Width of T-slots in vertical Table	mm	7 (14H7)
Distance between T-slots	mm	63
FEED DRIVE		
Feedrate	mm / min	1 – 3000
Rapid rate	mm / min	6000
SIEMENS SINUMERIK 808D		
Inverter spindle control	Kw / V	5.5 / 380
Type of Servo motor & drive (SINAMICS V60)	Kw / Nm / rpm	1.5/ 7.7 / 2000
GENERAL SPEC.		
Working Area	M	2.8 x 3
Main Power	KVA	10
Weight of machine	Kg	1600
Packing Dimension (Lx Wx H)	M	1.35 x 2.20 x 1.76

Features

Meehanite cast iron.
 Boxways for X, Y, Z axis
 Hardening guide ways
 Turcite-B are coated on 3 axes
 Belt type spindle.
 Adjustable vertical milling head with d
 Ball screws type Hiwin / PMI
 Up to φ 20 for X, Y, Z Axis Ball Screw
 Rigid Tapping
 Automatic Lubricating
 Cutting Fluid
 808D Siemens system control

Optional Equipment

Slotting Head
 Chip guard (carriage mounted)
 Working light system
 Taper Milling Arbor
 Manual Rotary Table
 Tilting Rotary Table
 Dividing Plate device
 Kind of Hydraulic Vise
 Angular Milling Vise
 Swarf & splash guard pan
 Adjustable lamp
 Tooling (All cutting tools, tool holder, special tool for operation
 Controlling tools (All measuring & test devices)
 Spare parts for 2 & 5 years

Standard Equipment

Automatic lubrication system
 Lubrication injector system
 Coolant system
 Hydraulic tool clamp system
 Support arbor
 Test sample tool
 Plastic cover for toolholder
 Set of operating tools
 1 year mechanism warranty
 5 years technical support
 Instruction handbook

Operation Tools

Allen Wrench 4
 Allen Wrench 5
 Allen Wrench 6
 Allen Wrench 8
 Handles Allen Wrench 6
 Handles Allen Wrench 10
 Ring Wrench 13*12
 Ring Wrench 19*17
 Flat Wrench 22*20
 Longe T-Handle Allen Wrench with key
 Grease gun
 Cover Logo

Compare of Milling Facilities

Items	FP4M	FP4MD	FP4MK	FP4MH	FP4MHD	FP4ME
Dimension	Similar	Similar	Similar	Similar	Similar	Similar
Coolant system	Yes	Yes	Yes	Yes	Yes	Yes
Axial lubrication system	Nuzzle - Manual	Nuzzle - Manual	Nuzzle - Manual	Auto - Injector	Auto - Injector	Auto - Injector
Headstock lubrication	Timer - Analog	Timer - Analog	Timer - Analog	Automatic	Automatic	Automatic
Tool clamping system	Manual	Manual	Hydraulic - Manual	Hydraulic - Manual	Hydraulic - Manual	Hydraulic - Manual
Feed control	Gearbox	Gearbox	Gearbox	PLC control With –	PLC control With –	CNC control With
Measuring system	No	Digital linear scale	Digital linear scale	No	Digital linear scale	Encoder
Control system	No	DRO –	DRO	PLC	PLC-DRO	CNC
Spindle system	Step speed - Gearbox	Step speed - Gearbox	Step speed - Gearbox	Continuous speed with inverter- Gearbox	Continuous speed with inverter- Gearbox	Continuous speed with inverter- Gearbox
Main motor braking system	Mechanical break	Mechanical break	Mechanical break	Electrical break	Electrical break	Electrical break
Splash guard	No	Yes	No	No	No	No
Alarm system	No	No	No	Yes	Yes	Yes
Traveling system	Lead screw	Lead screw	Lead screw	Lead screw	Lead screw	Ball screw
Support arbor	Yes	Yes	Yes	Yes	Yes	Yes