



FP4MD Technical Specification			
MOVING AXES			
Longitudinal travel (X)	mm	500/490 (- 20")	
Cross travel (Y)	mm	400/390 (- 16")	
Vertical travel (Z)	mm	400/385 (- 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	3.7- 4.4 / 1400 - 2800	
Spindle speed range	r.p.m	50...2500	
Number of spindle speeds		18	
Adjustable speed		1.25	
Spindle taper	DIN 69871	ST 40 (M16)	
Tool Clamping	Manually		
FEED DRIVE			
Power of motor	Kw	0.8 / 1.2	
Rapid rate	mm/min	1300	
Feedrate	mm/min	8...630	
VERTICAL TABLE			
Clamping surface of table	mm	842 x 274	
Number & Width of T-slots	mm	4 (14H7)	
Distance between T-slots	mm	63	
Max. load in Vertical table	Kg	600	
HORIZONTAL TABLE			
Clamping surface of table	mm	800 x 460	
Number & Width of T-slots	mm	7 (14H7)	
Distance between T-slots	mm	63	
Max. load in Horizontal table	Kg	400	
DIDITAL MEASURING SYSTEM			
Readout Accuracy	mm	0.005	
Digital linear scale Accuracy	mm	0.005	
GENERAL SPEC.			
Working Aria	M	2.8 x 3	
Weight of machine	Kg	1415	
Main Voltage	Hz	380 v...50	
Main Power	KVA	7.5	
Packing Dimension (Lx Wx H)	M	1.85 x 1.56 x 2.0	

Features

Meehanite cast iron.
 Hardening guide ways
 Manual tool clamp
 Hand-wheels on all 3 axes
 Adjustable vertical milling head w
 Locking on the milling head
 Rigid table
 Main spindle drive
 Gearbox system for feed & spindl
 General lubrication manually for
 Mechanical brake in main motor
 Readout and Digital linear scale f
 Mounted control cabinet
 Tool mount SK40 DIN 69871 with

Optional Equipment

Hydraulic clamp system
 Lubrication injector system
 PLC controlling
 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 operations)
 Controlling tools (All measuring & test devices)
 Spare parts for 2 & 5 years

Standard Equipment

Manual lubrication system
 Coolant system
 Manual tool clamp system
 Support arbor
 Test sample tool
 Hand grease gun
 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
 Cover Logo
 Grease gun

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