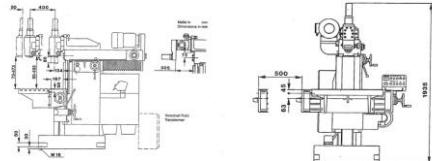




FP4MH Technical Specification

MOVING AXES			
Longitudinal travel (X)	mm	500 (20")	
Cross travel (Y)	mm	400 (16")	
Vertical travel (Z)	mm	400 (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	60 ... 2500	
Number of spindle speeds		18	
Adjustable speed		1,25	
Spindle taper	DIN 69871	ST 40	
Hydraulic Tool Clamping	W / Bar	0.74 / 120	
FEED DRIVE			
Power / Speed of motor	Kw / rpm	1 / 2000	
Rapid rate	mm/min	1300	
Feedrate	mm/min	6 ... 650	
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	
GENERAL SPEC.			
Working Area	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
Hydraulic tool clamp
Manual control bar for hydraulic tool clamps
Hand-wheels on all 3 axes
Adjustable vertical milling head with draw-out
Locking on the milling head
Rigid table
Rigid linear scale
Main spindle drive
PLC Controlling for feed & spindle speed
Automatic lubrication System
Electrical brake in main motor
Mounted control cabinet
Tool mount SK40 DIN 69871 with retention kn

Optional Equipment

Digital linear scales with readout
Slotting Head
Chip guard (carriage mounted)
Working light system
PLC controlling
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 hok 5 years technical support
Controlling tools (All measuring 4
Spare parts for 2 & 5 years

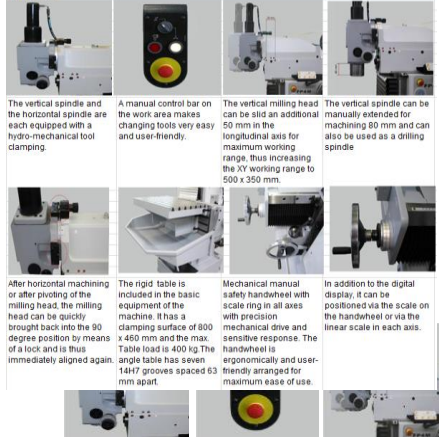
Standard Equipment Operation Tools

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

Optional equipment



Features



The vertical spindle and the horizontal spindle are each equipped with a hydro-mechanical tool clamping.

A manual control bar on the work area makes changing tools very easy and user-friendly.

The vertical milling head can be slid an additional 65 mm in the longitudinal axis for maximum working range, thus increasing the XY working range to 600 x 350 mm.

The vertical spindle can be manually extended for machining 80 mm and can also be used as a drilling spindle.

After horizontal machining or after pivoting of the milling head, the milling head can be quickly brought back into the 90 degree position by means of a lock and is thus immediately aligned again.

The rigid table is included in the basic equipment of the machine. It has a clamping surface of 800 x 460 mm and the max. Table load is 400 kg. The angle table has seven 14H7 grooves spaced 63 mm apart.

Mechanical manual scale ring in all axes with precision mechanical drive and sensitive response. The handwheel is ergonomically and user-friendly arranged for maximum ease of use.

In addition to the digital display, it can be positioned via the scale on the handwheel or via the linear scale in each axis.

The vertical spindle and the horizontal spindle are each equipped with a hydro-mechanical tool clamping.

A manual control bar on the work area makes changing tools very easy and user-friendly.

The vertical milling head can be slid an additional 50 mm in the longitudinal axis for maximum working range, thus increasing the XY working range to 500 x 350 mm.

The vertical spindle can be manually extended for machining 80 mm and can also be used as a drilling spindle.

After horizontal machining or after pivoting of the milling head, the milling head can be quickly brought back into the 90 degree position by means of a lock and is thus immediately aligned again.

The rigid table is included in the basic equipment of the machine. It has a clamping surface of 800 x 460 mm and the max. Table load is 400 kg. The angle table has seven 14H7 grooves spaced 63 mm apart.

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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