

PHOENIX

KNEE TYPE VERTICAL & HORIZONTAL MILLING MACHINE



▲ **FM-26SHB**

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Mechanical Feature

Spindle speed (brake) is made by quick shift mechanism. It is very easy operation and enhance the period of the transmission gear.

The spindle motor provides either stepless or variable speed; max speed 5560 RPM can meet different processing conditions then improve production efficiency.

Shift speed



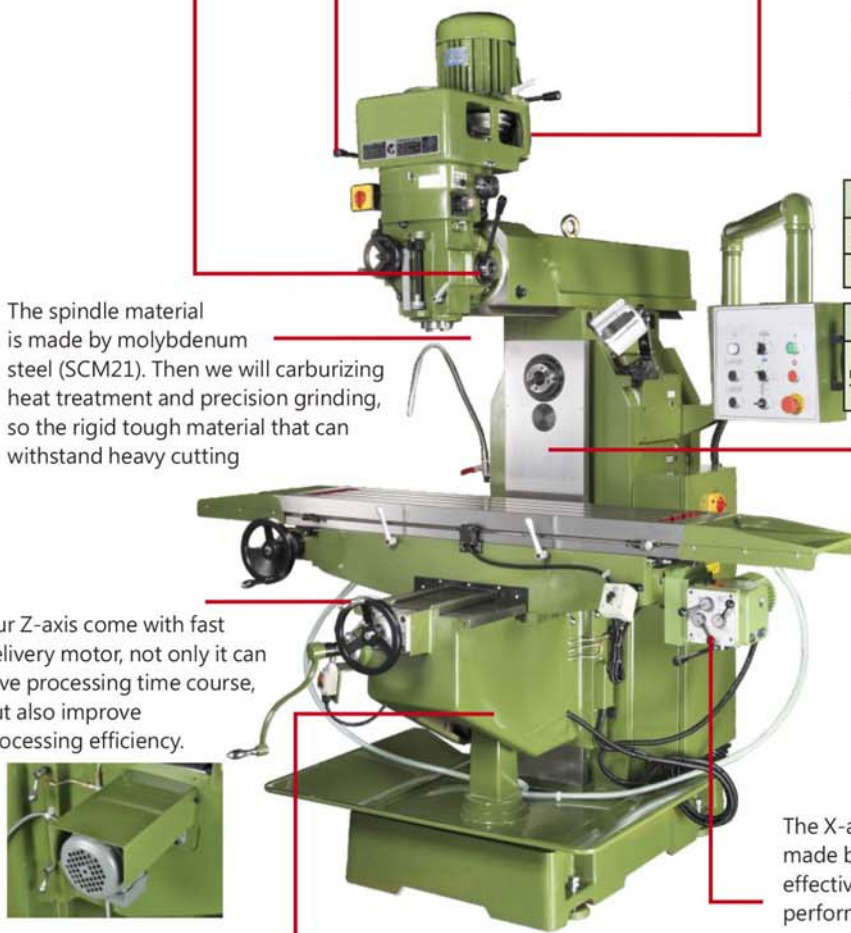
Brake



Variable(VS)



Steps(SS)



The spindle material is made by molybdenum steel (SCM21). Then we will carburizing heat treatment and precision grinding, so the rigid tough material that can withstand heavy cutting

Our Z-axis come with fast delivery motor, not only it can save processing time course, but also improve processing efficiency.



All our X / Y / Z -axis slide has a high frequency heat treatment after grinding, each slide surface is attached glide piece(TURCIT-B) to reduce the friction coefficient of the contact surface. Even under long-term use, we still guarantee the accuracy and stability.



The X-axis transfer mechanism is made by gearbox, which will effectively enhance cutting performance.



10 steps	
60HZ	70-125-190-285-420-600-1025-1530-2200-3350(RPM)
50HZ	58-110-165-240-360-500-870-1290-1900-2780 (RPM)

20 steps	
50HZ	2P 116-220-330-480-720-1000-1740-2580-3800-5560(RPM)
	4P 58-110-165-240-360-500-870-1290-1900-2780 (RPM)

The main casting part is made of meehanite casting, and machine body come with dovetail slot design. The rigidity is excellent, illustrating brilliant stability and rigidity.



Horizontal Mill Spindle Speed	
60HZ	92-204-241-251-536-590-660-1311-1614(RPM)
50HZ	73-163-193-201-428-471-527-1046-1288(RPM)

- X / Y axis are using precision ball screw, which is designed to maintain smooth during the drive, then with the best positioning control and low backlash.
- Horizontal milling equipment come with a arbor bracket to enhance the cutting rigidity. Meanwhile, it can effectively shorten the processing time.

SPECIFICATIONS

Model	Unit	FM-26VHB	FM-26SHB	
Travel				
Longitudinal travel (Manual / Auto.)	mm	1000(39.37"/39.37")		
Cross travel (Manual / Auto.)	mm	400(15.75")		
Vertical travel (Manual / Auto.)	mm	470(18.5")		
Quill travel	mm	140(5.51")		
Overarm travel	mm	700(27.56")		
Overarm swivel	degree	360		
Quill swivel (R&L)	degree	±45		
Quill swivel (F&B)	degree	fixed		
Dist. form spindle nose to table	mm	110-570(4.33"-22.44")		
Spindle centerline to column	mm	180-880(7.09"-34.65")		
Table				
Dimension	mm	1370x300(54"x12")		
T-slots (Width x No. x Pitch)	mm	16x3x70(0.63"x3x2.76")		
Max. table load	kg	300		
Spindle				
Milling head (Belt driven)	type	Variable	10 Steps	20 Steps (opt.)
Speed	60Hz	rpm	50-3500	70-3350
	50Hz	rpm	50-3500	58-2780
Vertical feeds	mm/rev	0.04/0.08/0.15		
Taper	type	NT 40		
Horizontal spindle speed (gear driven)	rpm	60HZ:92-1614 (9 Steps) 50HZ:73-1288 (9 Steps)		
Horizontal spindle taper	type	NT 40		
Motor				
Main spindle	HP	5HP(3.7kw)		
Horizontal spindle	HP	5HP(3.7kw)		
X-axis traverse	HP	1/2HP(0.37kw)		
Z-axis elevation	HP	1/2HP(0.37kw)		
Coolant pump	HP	1/8HP(0.1kw)		
Feedrate				
X speed	mm/min	30-1300(9 Steps)		
Elevation speed	mm/min	345		
Machine				
Space(L x W x H)	mm	3100x2200x2550 (122"x86.6"x100.4")		
Packing dimension(L x W x H)	mm	2280x1730x2280 (89.8"x68.1"x89.8")		
Net Weight	kg	2200		

* The manufacturer reserves the right to modify the design, specifications, mechanisms...etc. to improve the performance of the machine without prior notice. All the specifications shown above are just for reference.

Standard accessories

Draw bar	_____
Tool box and tools	_____
Chip cover on Y axis	_____
Automatic lubrication system	_____
(X/Y) Turcite B (X/Y)	_____
Heat treatment and grinding (X/Y/Z)	_____
Halogen light	_____
Z Axis Rapid up/down	_____
Deluxe type Electric box	_____
X axis Gear box	_____
X/Y axis Ball screw	_____
Coolant system (1/8HP)	_____

Optional accessories

Coolant tray	_____
Linear scales (X/Y/Z)	_____
LED light	_____
Adjustable automatic lubrication system	_____
Power feed (Y)	_____
Gear box (Y)	_____
Frequency spindle motor (5HP/3.7KW)	_____
Angle lock vise 6"(152mm)	_____
Plate	_____
NT 40 Fixture (7PCS)	_____



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