



VERTICAL TYPE TURRET MILLING MACHINE

*Hardened and precisely ground on X/Y/Z axes slide way
X and Y axes coated with "TURCITE B"*



VERTICAL TYPE TURRET MILLING MACHINE

FM-1-1/4VA(Step speed) ; FM-1-1/4VS(Variable speed)



FM-1-1/4VA

◀ FM-1-1/4VS
(w/opt. accessories)

FM-1-1/2VA(Step speed) ; FM-1-1/2VS(Variable speed)



FM-1-1/2VA

◀ FM-1-1/2VS
(w/opt. accessories)

VERTICAL TYPE TURRET MILLING MACHINE

FM-3KVA(Step speed) ; FM-3KVS(Variable speed)



FM-3KVA

◀ FM-3KVS
(w/opt. accessories)

FM-4KVA(Step speed) ; FM-4KVS(Variable speed) ;
FM-4KIV(Inverter variable speed)



FM-4KVS ▶
(w/opt. accessories)



FM-4KVA



FM-4KIV

VERTICAL TYPE TURRET MILLING MACHINE

FM-5KVA(Step speed) ; FM-5KVS(Variable speed) ;
FM-5KIV(Inverter variable speed)



FM-5KIV ▶
(w/opt. accessories)



FM-5KVS



FM-5KVA

FM-6KVA(Step speed) ; FM-6KVS(Variable speed) ;
FM-6KIV(Inverter variable speed)



FM-6KIV ▶
(w/opt. accessories)



FM-6KVS



FM-6KVA

SPECIFICATIONS

MODEL	FM-1-1/4VA FM-1-1/4VS	FM-1-1/2VA FM-1-1/2VS	FM-3KVA FM-3KVS
TABLE			
Table size	889 x 228mm (35"x9")	1067x228mm (42"x9") or 1244x228mm(49"x9")	1270x254mm (50"x10") 1370x254mm(54"x10") (opt.)
No. of T-slots	3		
T-slots width	16		
Slideway hardened & surface ground	YES		
Table surface hardened & ground	YES		
Slideway "dovetail" or "square"	X/Y/Z Axes : Dovetail		
MANUAL TRAVELS			
X axis	610mm (24")	700mm (27-1/2") 860mm (27-1/2") (w/opt. 49"x9" table)	800mm (31-1/2") 915mm (36") (w/opt. 54"x10" table)
Y axis	300mm (11-13/16")	330mm (13")	380mm (15")
Z axis	380mm (15")	410mm (16-1/8")	430mm (17")
Distance from spindle nose to table surface	50~430mm (2"~17")	50~460mm (2"~18-1/8")	50~480mm (2"~18-7/8")
Distance from spindle center to column	140~450mm (5-1/2"~17-11/16")	160~490mm (6-5/16"~19-5/16")	140~660mm (5-1/2"~26")
Travel reduced with power feed	40mm	60mm (X axis)	
Head swivel angle (R/L)	±90°		
Head tilting angle (up/down)	±45°		
Ram travel	310mm(12-3/16")	350mm(13-3/4")	508mm(20")
SPINDLE			
Main motor	2HP	3HP	3HP / 5HP(opt.)
Spindle speed r.p.m. (For VA and KVA models) (Step pulley)	8 Nos. 70~2310 r.p.m.(50HZ), 80~2720 r.p.m.(60HZ) 16 Nos. 70~4620 r.p.m.(50HZ), 80~5440 r.p.m.(60HZ)		
Spindle speed r.p.m. (For VS and KVS models) (Mechanical variable))	60~3600 r.p.m.(50HZ) 70~4200 r.p.m.(60HZ)		
Spindle taper	R8 or NT30		R8 or NT30, NT40(opt.)
Spindle travel	127mm (5")		
Quill feed rate	0.04, 0.08, 0.15 mm/rev		
Quill diameter	85.7mm (3-3/8")		
Machine net weight	650 kgs	950 kgs	1000 kgs

- 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

- Hardened and ground on X,Y,Z axes
- X,Y axes coated with Turcite B
- Chip rubber cover (front & rear)
- One shot lubrication
- Arbor drawbar
- Tool box with tools
- Forward/off/reverse switch

SPECIFICATIONS

MODEL	FM-4KVA FM-4KVS FM-4KIV	FM-5KVA FM-5KVS FM-5KIV	FM-6KVA FM-6KVS FM-6KIV
TABLE			
Table size	1270 x 254mm (50"x10") 1370 x 254mm(54"x10")(opt.)		1370 x 305mm (54"x12") 1524 x305mm(60"x12")(opt.)
No. of T-slots	3		
T-slots width	16		
Slideway hardened & surface ground	YES		
Table surface hardened & ground	YES		
Slideway "dovetail" or "square"	X Axis : Dovetail Y/Z Axes : Square		
MANUAL TRAVELS			
X axis	800mm (31-1/2") 915mm (36") (w/opt. 54"x10" table)		800mm (31-1/2") 1100mm (43-5/16") (w/opt. 60"x12" table)
Y axis	380mm (15")	430mm (17")	380mm (15")
Z axis	430mm (17")	520mm (20-7/16")	480mm (18-7/8")
Distance from spindle nose to table surface	50~480mm (2"~18-7/8")	50~570mm (2"~22-7/16")	50~530mm (2"~20-7/8")
Distance from spindle center to column	120~660mm (4-11/16"~26")	220~750mm (8-5/8"~29-1/2")	
Travel reduced with power feed	60mm (X axis)		None
Head swivel angle (R/L)	±90°		
Head tilting angle (up/down)	±45°		
Ram travel	508mm(20") / 530mm(20-13/16")(NT40)	530mm(20-13/16")	
SPINDLE			
Main motor	3HP / 5HP(opt.)		5HP
Spindle speed r.p.m. (For KVA models) (Step pulley)	8 Nos. 70~2310 r.p.m.(50HZ), 80~2720 r.p.m.(60HZ) 16 Nos. 70~4620 r.p.m.(50HZ), 80~5440 r.p.m.(60HZ)		
Spindle speed r.p.m. (For KVS models) (Mechanical variable)	60~3600 r.p.m.(50HZ) 70~4200 r.p.m.(60HZ)		
Spindle speed r.p.m. (For KIV models) (Inverter variable))	70~4200 r.p.m.(50/60HZ)		
Spindle taper	R8 or NT30, NT40(opt.)	NT40	
Spindle travel	127mm (5")		
Quill feed rate	0.04, 0.08, 0.15 mm/rev		
Quill diameter	85.7mm (3-3/8") / 100mm(3-15/16")(opt.)	100mm(3-15/16")	
Machine net weight	1050 kgs	1300 kgs	1400 kgs

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OPTIONAL ACCESSORIES

- Electric control box with panel
- Coolant pump
- Z axis rapid up/down lifting motor
- Splash guard
- Auto lubricator
- Halogen worklight
- Power feed for X,Y axes
- Gear type power table feed for X,Y axes
- Air power drawbar
- Riser block
- Digital readout system
- Safety spindle guard
- CE standard



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