

VERTICAL TURRET MILLING MACHINE

Simple, easy,economy

DM-160V / VS
DM-180V / VS
DM-186V / VS

FEATURURES

- 1.The body casting is made of high quality Meechanite.
- 2.Spindle is made of SCM-4 shaft chrome-molybdenum steel , heat treatment after carburizing,and precision ground.
- 3.Turcite-B are coated on XY-axes.
- 4.Work table & slide ways of XY-axes are hardened & ground.
- 5.Squareslideway on Y-axis.
- 6.Direct –shift “ High / Low “ switch.
- 7.The slideway of Z-axis is hardened & ground for DM-180 & DM-186.
- 8.Square slideway on Z-axis for DM-180 & DM-186.

Standard accessories:

- 1. Auto lubrication system
- 2. XY-axes with Turcite-B
- 3. Coolant system
- 4. Draw bar
- 5. Splash shield
- 6. Electric box
- 7. Halogen light
- 8.Toos & tool box
- 9. Operational manual
- ◎10.Swing arm type of operation panel(only for DM-180/DM-186)
- ◎11.Z-axis gear elevating reducer motor for knee up/down (only for DM-180/DM-186)
- ◎12.XY-axes ball screw (only for DM-186)

Optional accessories:

- 1. Chip tray
- 2. Digital readout
- 3. X-axis power feed, only for DM-160, DM-180
- 4. Y-axis power feed
- 5. XY-axes gear box
- 6. XY-axes servo motor, table feed
XY axes just can be installed one device of 3~6
- 7. XY-axes ball screw
- 8.Table length 54” (1370mm)
- ◎ 9.Spindle NT-40 (only for DM-160)
- ◎10.Swing arm type of operation panel (only for DM-160)
- ◎11.Z-axis gear elevating reducer motor for knee up/down (only for DM-160)



photo shown DM-160V

VERTICAL HORIZONTAL TURRET MILLING MACHINE

Simple, easy,economy

DM-186VH / VSH

FEATURURES

- 1.The body casting is made of high quality Meechanite.
- 2.Spindle is made of SCM-4 shaft chrome-molybdenum steel , heat treatment after carburing,and precision ground.
- 3.Turcite-B are coated on XY-axes.
- 4.Work table & slideways of XYZ-axes are hardened & ground.
- 5.Square slideway on YZ-axes.
- 6.Direct –shift “ High / Low “ switch.
- 7.PCB phosphor bronze leadscrew nut.

Standard accessories:

- 1. Auto lubrication system
- 2. XY-axes with Turcite-B
- 3. Coolant system
- 4. Draw bar
- 5. Splash shield
- 6. Electric box
- 7. Halogen light
- 8.Toos & tool box
- 9. Operational manual
- 10.Swing arm type of operation panel
- 11.Z-axis gear elevating reducer motor for knee up/down
- 12. X-axis gear box
- 13. XY-axes ball screw

Optional accessories:

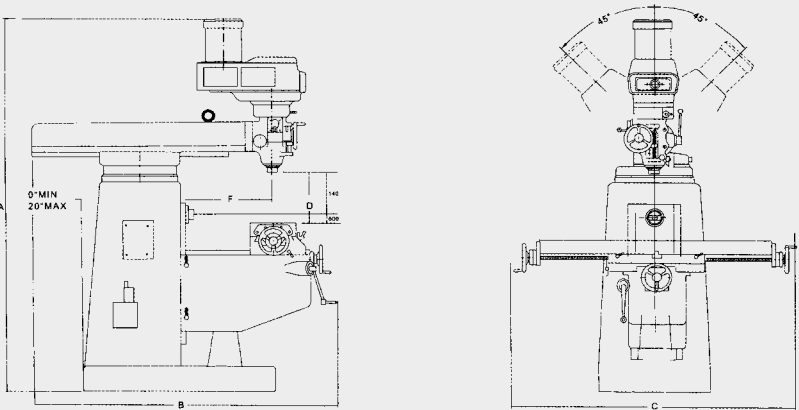
- 1. Chip tray
- 2. Digital readout
- 3. Y-axis power feed



Horizontal Install

photo shown DM-186VH

LAYOUT



MODEL	A	B	C	D	E	F	G
ITEM	Height	Length (Depth)	Width	Spindle nose to table surface	Head inward Front / Back	Head 90° (Spindle center to the column surface)	Head outwar-Left / Right
DM-160 V/VS	2320	2120	2550	80-430	±45°	60-620	±45°
DM-180 V/VS	2420	1920	2530	90-560	Fixed (OP ±45°)	85-625	±45°
DM-186 V/VS	2420	1920	2860	30-490	Fixed (OP ±45°)	85-625	±45°
DM-186 VH/VSH	2520	2270	3100	110-570		180-880	±45°

SPECIFICATION Unit: mm / inch

TYPE		VERTICAL			VERTICAL HORIZONTAL	
MODEL		DM-160V DM-160VS	DM-180V DM-180VS	DM-186V DM-186VS	DM-186VH DM-186VSH	
SPINDLE DRIVING TYPE	V series	PULLEY STEP				
	VS series	INVERTER VARIABLE				
	VH series	PULLEY STEP & HORIZONTAL INSTALL				
	VSH series	INVERTER VARIABLE & HORIZONTAL INSTALL				
TABLE	Table	surface	1270 x 254 (50"x10")	1270 x 254 (50"x10")	1270 x 300 (50" x 12")	1370x300 (54"x12")
CAPACITY	X-axis travel (manual)	850 (33.46")	800 (31.5")	860 (33.86")	With gear box feed 1000 (39.37")	
	X-axis travel (OP-power feed)	OP- 750 (29.53")	OP-700 (27.56")	OP-840 (33.07")		
	Y-axis travel	426 (16.77")	426 (16.77")	400 (15.75")	400 (15.75")	
	Y-axis travel (OP-power feed)	OP-340 (13.39")				OP-gear box 380 (14.96")
	Z-axis travel	380 (14.96")				
	Z-axis travel (OP-gear type elevating reducer motor)	OP- 370 (14.57")	ST- 470 (18.5")	ST- 450 (17.72")	ST- 450 (17.72")	
	Quill travel	127 (5")	140 (5.5")			140 (5.5")
	XYZ axes travel will be shortened after DRO installed.					
	Overarm travel	560 (22")	540 (21.26")			700 (27.56")
	Overarm swivel	360°			360°	
SPINDLE	Spindle taper –vertical	NT-30/R8(OP:NT-40)	NT-40			NT-40
	Spindle taper-mill spindle taper				NT-40	
	Spindle motor-Vertical	3HP (OP-5HP)	5HP	5HP	5HP	
	Spindle motor-Horizontal mill (VH/VSH only)				5HP	
	Spindle speed 60HZ	66~2700 rpm	70~3350 rpm			70~3350 rpm
	-V-step speed 50HZ	68~2280 rpm	58~2780 rpm			58~2780 rpm
	Spindle speed 60HZ	Low:60~460 rpm	Low:55-450 rpm			55 - 3600 rpm
	-VS-variable speed 50HZ	High:460~3500 rpm	High:445~3600 rpm			55 - 3600 rpm
	Horizontal mill spindle Speed (Revolve / min.)				60 HZ: 92~1614 rpm (9 steps) 50 HZ: 73~1288 rpm (9 steps)	
	Vertical feed (Per revolution of spindle)	0.04 / 0.08 / 0.15 mn/rev				
MEASUREMENT	Packing size	1660 X 1800 X 1910	1620x1830x1960	1620x2100x1960	1800x2200x2100	
	N.W. / G..W.	1100 / 1250 kgs	1500 / 1650 kgs	1700 / 1900 kgs	2200 / 2400 kgs	
	Standard color	RAL-7005 (gray)				