

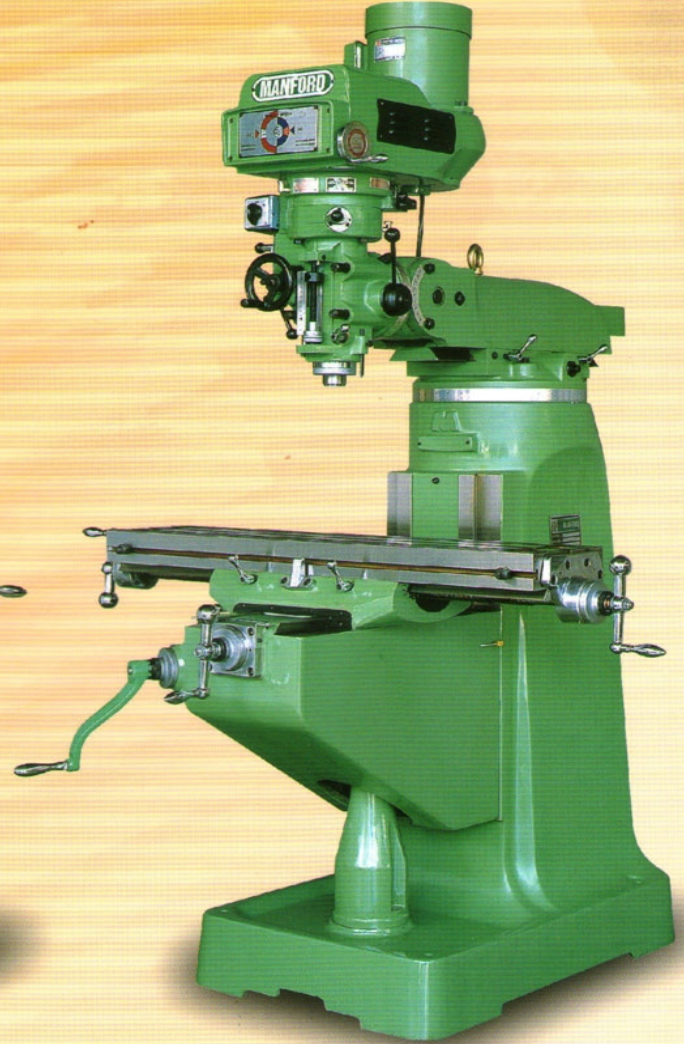
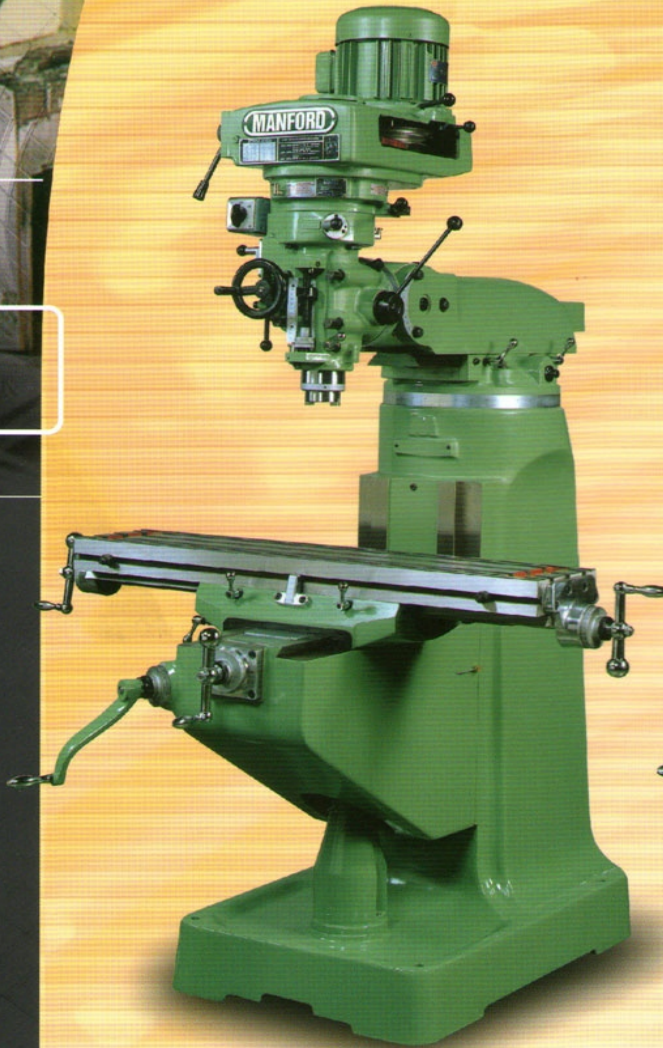
## VERTICAL TURRET MILLING MACHINE

### MF-2TM

(3HP, 8 speeds step head)  
NST#30/R8(NST#40 optional)

### MF-1-1/2VS

(3HP Variable speed head)  
NST#30/R8(NST#40 optional)



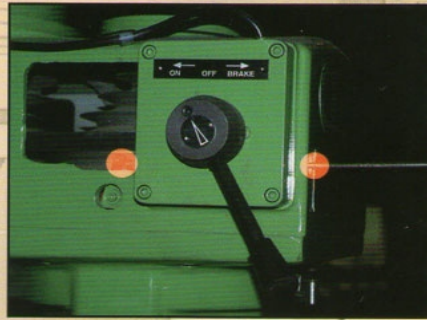
#### Features

	2TM	1-1/2VS	4KS	4KV
Spindle motor	3HP	3HP	3HP	3HP
Spindle material made from SCM440 Cr-Mo alloy steel with Heat Treatment	○	○	○	○
Centralized one shot lubrication system for ways, nuts, and leadscrews of Axes	○	○	○	○
Precision angular contact spindle bearing	○	○	○	○
8 speeds step-pulley drive (16 speeds is optional)	○	—	○	—
Infinite variable speed drive up to 4500 rpm/60Hz 3800 rpm/50Hz	—	○	—	○
Unique designed on hi-low gear speed commutation, bearings support on both side of spindle pulley	○	—	○	—
Adjustable brake handle to increase the life of brake shoe	○	—	○	—
Patented special copper alloy SAM214 for Vari-Disc keys, Precision ground with grease lubrication system	—	○	—	○
Bearing support at the end of motor shaft	—	○	—	○
Double sided Vari-Disc belt provides lower noise level	—	○	—	○
Motor shaft material made from SCM425 Cr-Mo alloy steel, dia. 28mm	—	○	—	○

○ Standard — Not available ☆ Optional



UNIQUE DESIGN STEP HEAD



ADJUSTABLE BRAKE HANDLE INCREASES THE LIFE OF BREAK SHOE. (STEPHEAD)

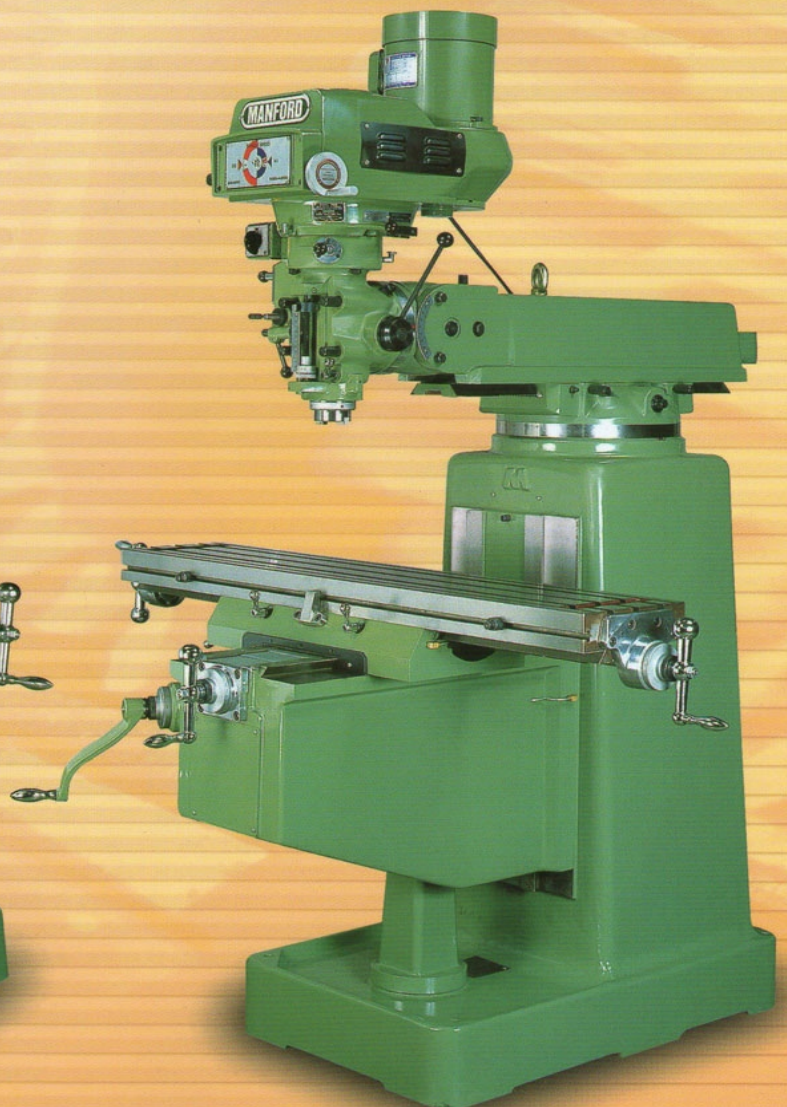
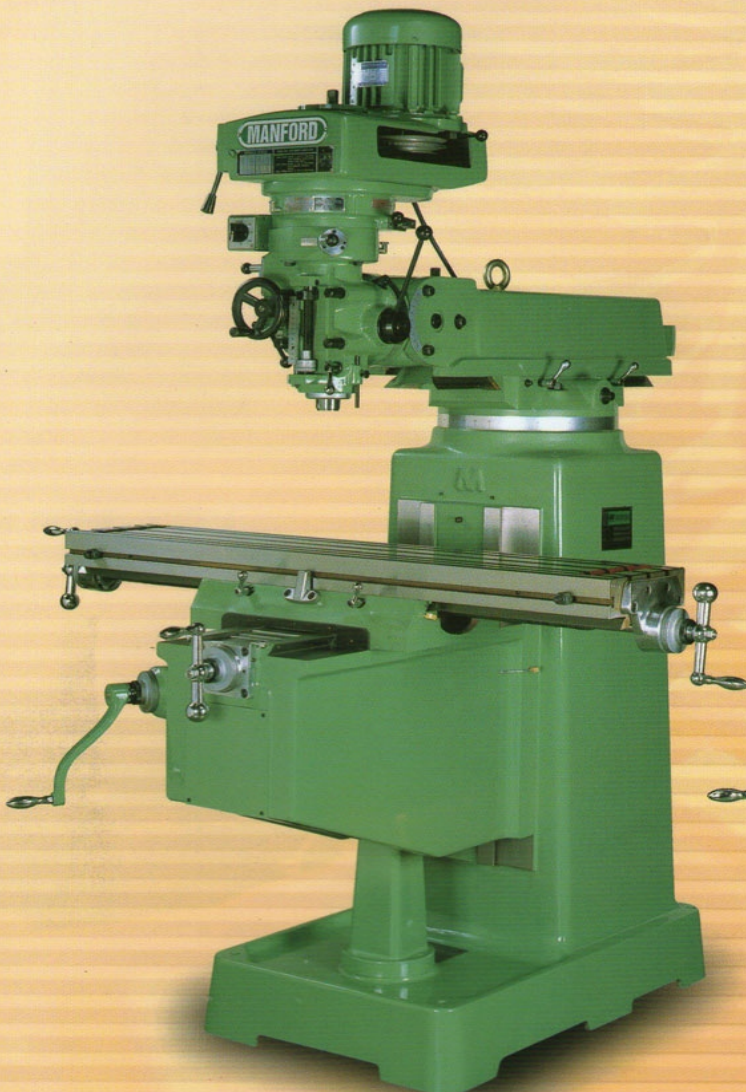
VERTICAL TURRET MILLING MACHINE

**4KS**

(3HP, 8 speeds step head)  
NST#30/R8(NST#40 optional)

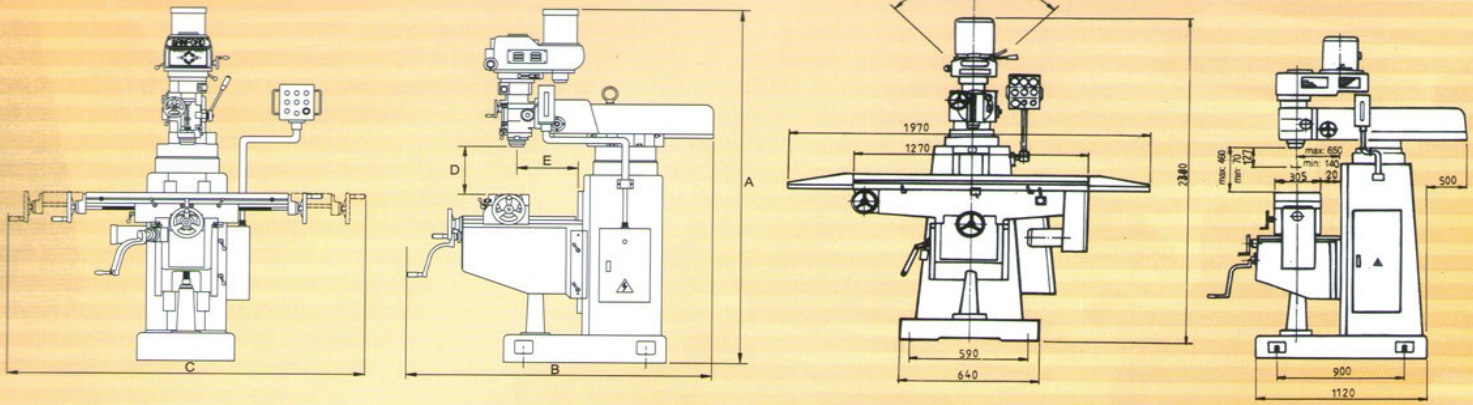
**4KV**

(3HP, Variable speed head)  
NST#30/R8(NST#40 optional)



MF-2TM MF-1-1/2VS 4KS 4KV  
MF-450TM MF-450VS 5KS 5KV

6KS-FP 6KS-SP  
6KV-FP 6KV-SP



SPECIFICATION		MF-2TM MF-1-1/2VS	4KS 4KV	MF-450TM MF-450VS	5KS 5KV	6KS-FP 6KV-FP	6KS-SP 6KV-SP	
Table size		230×1067mm(9"×42")	254×1270mm(10"×50")			305×1270mm(12"×50")		
T slots of table (Q'ty x size)		3×16mm(3×0.629")						
Longitudinal travel (X axis)	Manual	762mm(30")	890mm(35")	776mm(30.55")	776mm(30.55")	850mm(33.464")		
	Auto	682mm(26.85")	810mm(31.9")	696mm(27.4")	696mm(27.4")	850mm(33.464")		
Cross travel		305mm(12.007")	406mm(15.984")			410mm(16.141")	390mm(15.354")	
Vertical travel of knee (Z axis)		406mm(15.984")			450mm(17.716")	400mm(15.748")		
Ram travel		390mm(15.354")	560mm(10.236")			510mm(20")		
Quill travel		127mm(5")						
Spindle to table nose (D)		34~440mm(1.338"~17.322")	100~506mm(4"~20")		85~535mm(3.3"~21")	85~485mm(3.3"~19")		
Over swivel on turret		360°						
Head swivel (R&L)		+45°						
Head tilt (up & down)		+45°			Option			
Spindle to column (E)		154~544mm(6"~21.4")	159~719mm(6.25"~28.3")		178~738mm(7"~29")	140~650mm(5.5"~25.6")		
Spindle motor		3HP			3HP(Step)/5HP(Variable)	5HP(Step)/5HP(Variable)		
X axis motor		Option:Power feed (electric or gear type)				1/2HP Inverter motor		
Lifting motor		None	1/2HP (Option)		1HP gear type motor			
Spindle taper		NST#30(or R8 & NST#40)			NST#40			
Quill Feeds (mm/rpm)		0.04mm~0.08mm~0.14mm(0.0015"~0.003"~0.006")						
X axis rapid speed(mm/min)		Nil				2000	3750	
Lifting speed		Nil			Option		430mm/rpm	
Spindle speed (rpm)	Step head	50Hz Low:66~270 Hi:550~2270	60Hz Low:80~325 Hi:660~2720	50Hz Low:54~330 Hi:475~2875		60Hz Low:65~400 Hi:570~3450		
	Variable speed head	50Hz Low:50~420 Hi:420~3900	60Hz Low:60~500 Hi:500~4500	50Hz Low:40~415 Hi:415~3600		60Hz Low:60~500 Hi:500~4300		
Overall height (A)		2105mm(82.874")	2120mm(83.464")	2120mm(83.464")	2360mm(92.913")	2380mm(93.7")		
Overall depth (B)		1618mm(63.7")	1984mm(78.11")	2073mm(81.614")	2120mm(83.464")	2120mm(83.464")		
Overall width (C)		1497mm(58.937")	1666mm(65.59")	1680mm(66.141")	1790mm(70.472")	1790mm(70.472")		
Net weight		950kgs(2200lbs)	1200kgs(2625lbs)	1250kgs(2730lbs)	1600kgs(3500lbs)	1800kgs(3938lbs)		

Standard Accessories	For	Standard Accessories	For
Draw bar / Tools box / Rubber chip cover	All machines	Inverter motor for X axis Power feed	6KS-FP (6KV-FP) / 6KS-SP(6KV-SP)
Lifting motor & Electric box	6K	Ball screws on X & Y axis / Coolant / Automatic lubrication	6KS-FP (6KV-FP) / 6KS-SP(6KV-SP)

### Option Accessories

Table power feed (electric or gear box type)	Electric box for 2TM/3KS/4K/450TM/5K	Clamping kit
Coolant system	Lifting motor for MF-450/5K	Milling Chuck (NST#30/ R8 / NST#40)
Base splash guard	Ball screw on X & Y axes.	Milling vise (Angle-lock / Hydraulic)
Quartz work light	Long table 49" or 54"	Horizontal milling attachment.
Automatic lubrication	Riser block 4" or 8"	D.R.O. System.
2/4P 16 speeds Motor (except 5K & 6K)	NST#40 spindle (2TM / 1-1/2VS / 4KS / 450TM /450VS )	Power Draw bar (Air or Electric).

We reserve the right to modify and improve the specification without notice, the specification shown above are for reference only.