



# SPECIFICATIONS

Model	NO.40	VMC-1300-2H	VMC-1100	VMC-1300	VMC-1600	VMC-1600S	VMC-2000S	VMC-3000S
Item	NO.50		1100H	1300HD	1600HD	1600SHD	2000SHD	3000SHD
Table Working Surface		59" x 28" (1500 x 710mm)	51.2" x 22.4" (1300 x 570mm)	59" x 28" (1500 x 710mm)	70.9" x 29.5" (1800 x 750mm)	70.9" x 39.4" (1800 x 1000mm)	86.6" x 39.4" (2200 x 1000mm)	126" x 39.4" (3200 x 1000mm)
Longitudinal travel(x)		51" (1300mm)			63" (1600mm)		80.7" (2050mm)	120" (3050mm)
Cross travel (Y)		33.5" (850mm)	24" (610mm)	33.5" (850mm)		43.3" (1100mm)		
Vertical travel (Z)	No, 40	28" (710mm)	30.3" (770mm)	31.5" (800mm)				
	No, 50		27" (685mm)	28" (710mm)		31.5" (800mm)		
Spindle nose to table	No, 40	8.3"-34" (160-870mm)	5.9"-36.2" (150-920mm)	5.9"-37.4" (150-950mm)		5.9"-37.4" (150-950mm)		
	No, 50		6.3"-33.3" (160-845mm)	5.9"-33.9" (150-860mm)				
Spindle center to column		34.9" (885mm)	25" (635mm)	34.9" (885mm)		45.3" (1150mm)		
Distance between two spindles		25" (635mm)						
Spindle taper		BT40/CAT40	BT40/CAT40	For VMC- 1100 1300 1600 1600S 2000S 3000S	BT50/CAT50	For VMC- 1100H	BT 50 / CAT 50	For VMC- 1300HD 1600HD 1600SHD 2000SHD 3000SHD
Spindle diameter		3" (75mm)	3" (75mm)		3.5" (90mm)		3.9" (100mm)	
Spindle speed		Auto. Hi-Lo Gear 80-8000rpm	Auto.Hi-Lo Gear 80-8000rpm		Auto.Hi-Lo Gear 10-4500rpm		Auto.Hi-Lo Gear 10-4500rpm	
Spindle motor		20/15 HP	15/10 HP		20 /15HP		25 / 20 HP	
X-Y-Z Rapid traverse		15-15-10 M/min						
Cutting feed		1-8000 mm/min						
Coolant pump motor		2.1Hp (P: 3.5 kg/ cm <sup>2</sup> , Q: 100 L/min)						
No. of tools		Armless 24x2	BT40/ CAT40: Armless 24, Arm type 24/ 30 (opt.)			BT50/CAT50: Armless 20, Arm type 24/ 32 (opt.)		
Adjacent pockets Max. tool dia.		BT 40/ CAT 40 3" (75mm)		BT 50/ CAT 50 5" (125mm)				
Max. tool diameter		4" (100mm)	BT-40/ CAT 40 for VMC -1100 -1300,1300-2H -1600 -1600S -2000S -3000S			6" (150mm)	BT-50/CAT50 for VMC -1100H -1300HD -1600HD -1600SHD -2000SHD -3000SHD	
Max. tool length		12.5" (320mm)				15.7" (400mm)		
Max. tool weight		22lbs (10kgs)				33 lbs (15kgs)		
Table load capacity		7100lbs (3270kgs)	6300lbs (2870kgs)	7100lbs (3270kgs)	10000lbs (4600kgs)		10500lbs (4800kgs)	
Machine weight		30800 lbs (14000 kgs)	25300 lbs (11500 kgs)	29700 lbs (13500 kgs)	38500 lbs (17500 kgs)	40920 lbs (18600 kgs)	44000 lbs (20000 kgs)	50600 lbs (23000 kgs)
Floor space (LxW)		177.2"x178.1" (4500x4525mm)	151.5" x158.3" (3850 x 4020mm)	177.2" x 178.1" (4500x4525mm)		177.2"x209.8" (4500x5330mm)	216.5" x209.8" (5500 x 5330mm)	299.2"x209.8" (7600x5330mm)
X-Y-Z Ball screw dia.		φ 50, φ 50, φ 50				φ 50, φ 63, φ 50		φ 63, φ 63, φ 50
Cutting capacity (S45C)	milling	160 cc/min	120 cc/min	for VMC -1100 -1300 -1600 -1600S -2000S -3000S		240cc/min	for VMC -1100H	
	drilling	φ 30 mm	φ 40 mm			φ 52mm		
	tapping	M24 x P3.0	M30 x P3.5			M42 x P4.5		

\* Specifications subject to change without prior notice.

### STANDARD ACCESSORIES:

1. Coolant system
2. Spindle air blast
3. Auto lube. with alarm
4. Halogen work lamp
5. Tools, tool box and various manuals
6. Twin spindle/ Twin ATC(1300-2H)
7. Screw type chip conveyor
8. Full enclosure splash guard
9. Spindle cooler unit (for VMC-HD,SHD series)

### OPTIONAL ACCESSORIES:

1. Tool presetter (Renishaw TS-27)
2. CNC Rotary table
3. Automatic pallet changer (for VMC-1100/H, 1300/HD)
4. Twin ATC (for VMC 1300)
5. High pressure coolant thru tool tip
6. High pressure coolant thru spindle
7. Chain type chip conveyor