

**V E R T I C A L  
M A C H I N I N G C E N T E R S  
I N S T R U C T I O N M A N U A L**

**MODEL NO : VMC-1600S**

**S/O NUMBER : V152045**

**TYPE OF CONTROLLER : FANUC 18M-C**

**SERIAL NUMBER : VDA3035**

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## 1-1 MACHINE SPECIFICATIONS



MODEL		VMC-1600S	VMC-1600SHD
SPECIFICAT			
Table working surface		70.9"x39.4" (1800x1000mm)	
Longitudinal travel(X)		63"(1600mm)	
Cross travel(Y)		43.3"(1100mm)	
Vertical travel(Z)		31.5"(800mm)	
Spindle nose to table		5.9" ~37.4"(150~950mm)	
Spindle center to column		45.3"(1150mm)	
Distance between two spindles			
Spindle taper		BT-40/CAT-40	BT-50/CAT-50
Spindle diameter		2.75"(70mm)	3.9"(100mm)
Spindle speed		Auto. Hi-Lo Gear 80-8000rpm	Auto. Hi-Lo Gear 10-4500rpm
Spindle motor		15/10HP	25/20HP
X-Y-Z Rapid traverse		18-18-12M/min	
Spindle feed		1-12000mm/min	
Coolant pump motor		GRUNDFOS 2.1HP(P:3.5kg/cm <sup>2</sup> , Q:100l/min)	
Tool selection		Bi-direction random type, Shortest path	
No. of tools		Armless 24 Arm type 24/32Arm(opt.)	Armless 20 Arm type 24/32Arm(opt.)
Max. tool diameter		4"(100mm)	5"(127mm)
Max. tool length		12.5"(320mm)	15.7"(400mm)
Max. tool weight		22 Lbs(10kgs)	33 Lbs(15kgs)
Table load capacity		10000 Lbs(4600kgs)	
Machine weight		40920 Lbs(18600kgs)	
Floor space		177.2"X209.8"(4500x5330mm)	
X-Y-Z Ball screw dia.		φ50, φ63, φ50	
Cutting capacity S45C	Milling(cc/min)	180	320
	Drilling(φmm)	φ40	φ52
	Tapping(mm)	M30XP3.5	M50XP4.5

\*Specifications subject to change without prior notice.