

Specification		Model		VMC1250	VMC1500	VMC1700
Travel	X axis	mm	1270	1524	1700	
	Yaxis	mm	800			
	Zaxis	mm	850			
Work table size		mm	765×1524	800×1800	765×2000	
T-slot size (number-width*distance)		mm	5-18×150			
Max. loading capacity		kg	2000			
Spindle nose to table		mm	200~1050	180~1030	150~1000	
Spindle center to column		mm	918			
Moving speed (X/Y/Z)		mm/min	24000/24000/18000			
Feeding speed		mm/min	3~15000			
Spindle	Rotate speed	rpm	60~6000			
	Taper		7:24 No.50			
	Diameter	mm	Φ110			
	Max. Torque	Nm	143 (FANUC or 162.3 (SIEMENS))			
Tool Magazine	Type		ATC			
	Capacity		24 or 32			
	Time	sec.	3			
	Load capacity	kg	15			
Accuracy	Positioning	mm	X:0.026 Y:0.016 Z:0.020			
	Repeatability	mm	X:0.018 Y:0.012 Z:0.015			
Motor power	Spindle motor		11/15KW, 143Nm(FANUC) or 17/22.5KW 162.3Nm(SIEMENS)			
	X axis motor		4KW, 22Nm(FANUC) or 5.8KW, 27Nm(SIEMENS)			
	y axis motor		7KW, 30Nm or 6.28KW, 30Nm/SIEMENS			
	z axis motor		4KW, 22Nm or 5.8KW, 27Nm			
	Tool magazine motor	KW	Tool magazine 0.368 or 0.735KW ATC Equipment 1.15 KW			
Electric Power			380 (1±10%) V 50HZ			
Compress air Pressure		mpa	0.55~0.6			
Single air consumption		m <sup>3</sup> /min	0.2			
Full load current		A	110			
Overall Size (L*W*H)		mm	4200×3157×3600	4350×3157×3600	5000×3157×3600	
Occupation Dimension		mm	4948×3400	5382×3400	6032×3400	
Net weight		kg	12500	13500	14600	
Working Environment			5°~40°<75%			

### Features:

Bed type structure with fixed column.

X,Y axes go through cross moving table .

Each linear motion axis use imported rectilinear rolling guide ,ball screws and servo motor ,with full closed loop control.

ATC system is fixed on the column ,realizing automatic tool change .

Closed protective cover with injected plastic on the surface is used. Stainless steel telescoping protective cover is used to protect each axis guide and ball screw.

Electric cabinet with dual door is connected with the main body of machine tool as a whole ,unnecessary to disassemble during transportation or installation .

Three guides lying in Y axis ,with the most possible distance between each , solve the problem of heavy weight turnover during X axis motion ,which guarantees the running stability and rigidity .

Spindle used is the imported high-quality on .Its components are with no rotation vibration after strict motion balance. Tool storage uses steel ball collect and disk spring to get tools tied and untied. Pulling force is from disk spring. Unclamping force is from cylinder.

Spindle is driven by synchromesh gear with motor . Transmission ration is 1:1

Spindle configuration can satisfy various combinations of shank and ingot puller.

The design of modularization ensures flexible combinations of special options

N

Various feelers and suitable NC rotating tables can be installed additionally.

Application:

VMC Series Machining Centers use NC systems provided by professional suppliers. Each linear motion axis , spindle as well as additional rotation axes are driven by servo motors, 3-axis or 4-axis ganged ,capable of milling ,boring ,drilling , rigid threading ,ect. Digital precision positioning can be achieved. With motion axes plugging and ganged , processing large screw and curved surface can be realized . Various working procedure of rough and précised machining can be achieved with one-time calm on the same machine tool. Meanwhile ,multiple typical cycle programme is installed in the NC system as options during processing .Pre-set programme controls cutting ,coolant supply, and tool change ,etc. In the process of tool change ,air will be blown from spindle center automatically to keep shank and taper-bore clean . Clips produced by cutting will be transmitted by clip collector and transferred in fixed direction to clip colleting cart.