



B Series Basic Features

Strong Rigidity & High Productivity Vertical Machining Center

⊙ Spindle type

VMC1060B/VMC1160B Belt type spindle 8000/10000rpm

V10B/V11B Direct drive spindle 10000/12000/15000rpm

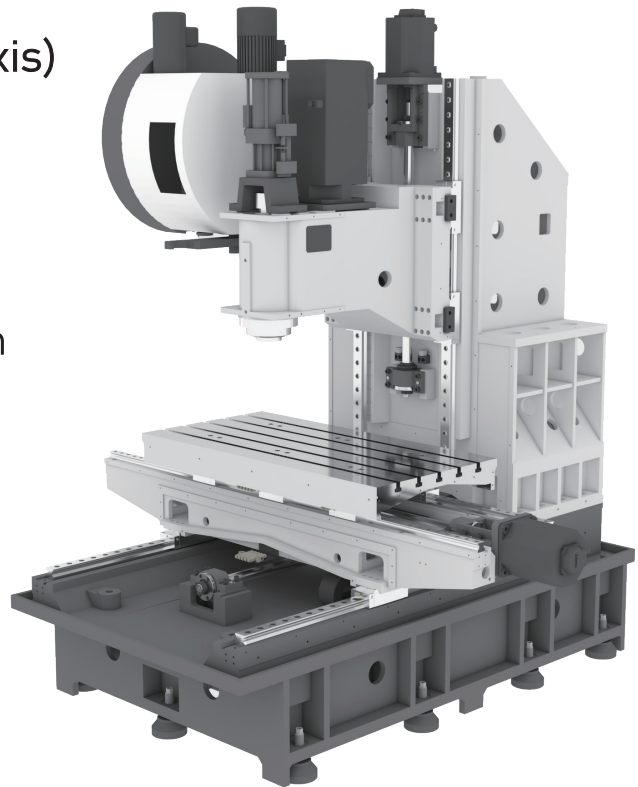
⊙ Rapid Traverse Rate (X/Y/Z axis)

36/36/32 m/min

⊙ Travel (X/Y/Z axis)

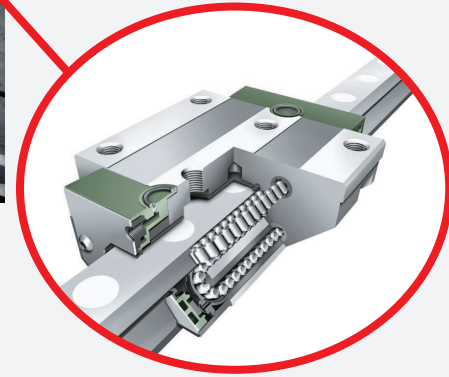
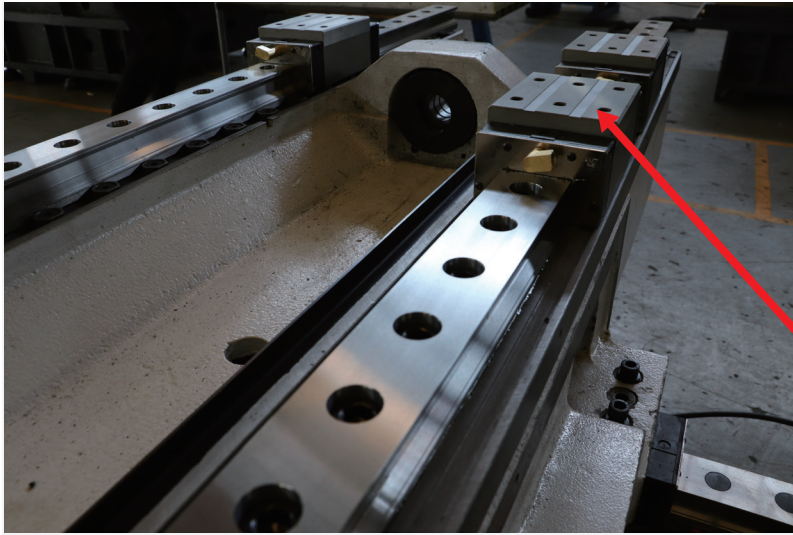
VMC1060B 1000/620/630 mm

VMC1160B 1100/610/630 mm



Strong Rigidity & High Productivity Vertical Machining Center

- ⊙ B series is featuring high rigidity, heavy cutting ability and high operability. The strong base column construction has optimally-placed ribs to counter chatter and twisting during heavy-duty cutting. With three axis roller linear guideway and wide area motor, this vertical machining center can perform heavy-duty cutting and high-speed machining with high torque from low to high speeds.



01

Roller Type LM Guide

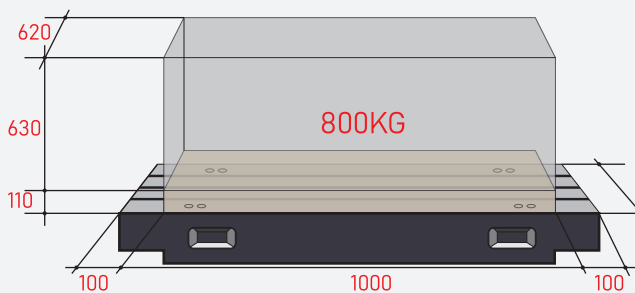
By roller linear contacting, the LM guideway can offer a better rigidity which ensure the fast feed rate and reduce cutting time.



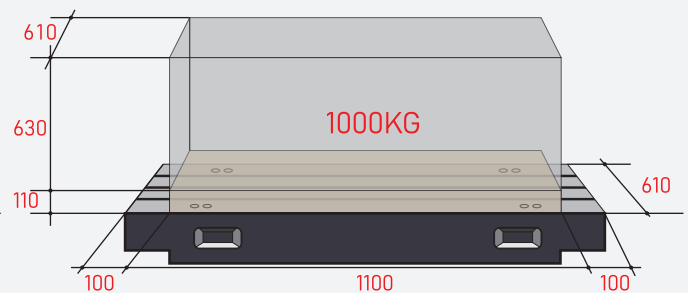
02

Short Nose Spindle and Wide Area Motor
BT40-150mm short nose spindle equipped with wide area motor offers a better rigidity on machining.

Worktable & Machining Area



⊙ VMC1060B



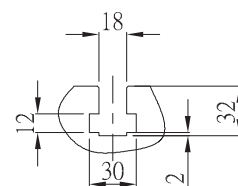
⊙ VMC1160B

SPECIFICATIONS

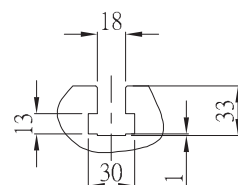
ITEM			VMC1060B	V10B	VMC1160B	V11B
Table	Table size	mm	1200x600		1300x610	
	Max. load capacity	kg	800		1000	
	T-slots	mm	5x18-100		5x18-100	
	Distance from table surface to spindle	mm	110-740	120-750	110-740	120-750
	Distance from table to floor	mm	900		900	
Spindle	Spindle taper		BT40		BT40	
	Spindle rpm	rpm	8000	10000	8000	10000
	Spindle power output	kw	11/15 wide area	11/15	11/15 wide area	11/15
	Spindle torque(FANUC)	N.M	105	52.5	105	52.5
	Spindle driving method		belt	direct	belt	direct
Feed	Travel (X/Y/Z)	mm	1000/620/630		1100/610/630	
	Distance from column to spindle center	mm	667		667	
	Rapid traverse rate	m/min	36/36/32		36/36/32	
	Slide type		Roller LM guide			
ATC	Number of tools	T	24		24	
	Max. tool diameter	mm	78/120		78/120	
	Max. tool length	mm	300		300	
	Max. tool weight	kg	8		8	
	Tool change time	sec	2.5		2.5	
Accuracy	Positioning accuracy	mm	0.008		0.008	
	Re-positioning accuracy	mm	0.005		0.005	
Power supply	Air consumption	kg	6-8		6-8	
	Electric power supply	KVA	20		20	
	Voltage	V/HZ	380/50		380/50	
Machine	Machine dimension	mm	2850x2500x2850		3000x2500x2750	
	Machine weight	kg	6800		7000	

100

VMC1060B



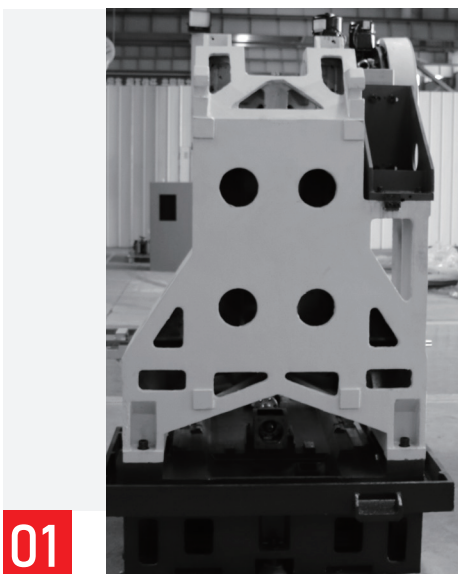
VMC1160B



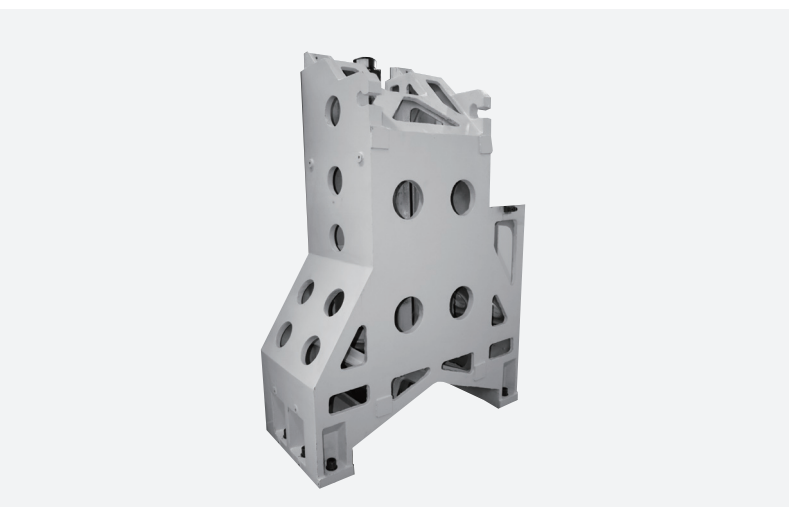
04 Common Basic Features

SINO VMC

Common Basic Features for all SINO VMCs



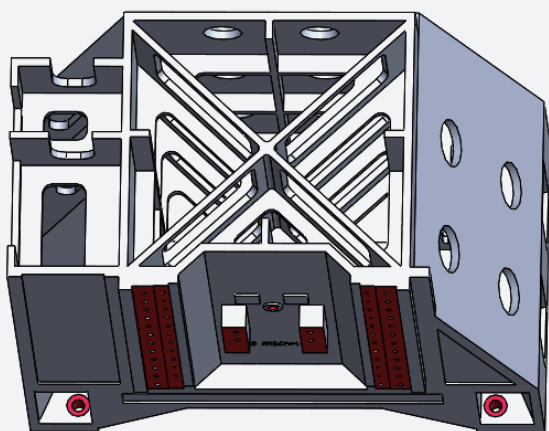
01



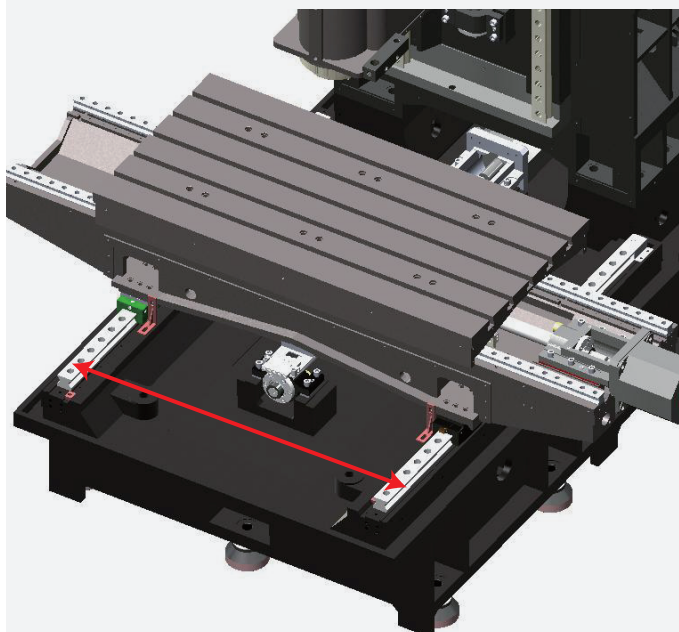
High Rigidity Structural Design

Large pagoda machine column and base ensure the highest stability during high speed movement

- ⦿ The reinforcing ribs inside ensures strong enough rigidity.



- ⦿ The large span of Y axis guideways to keep all the X axis travel is supported

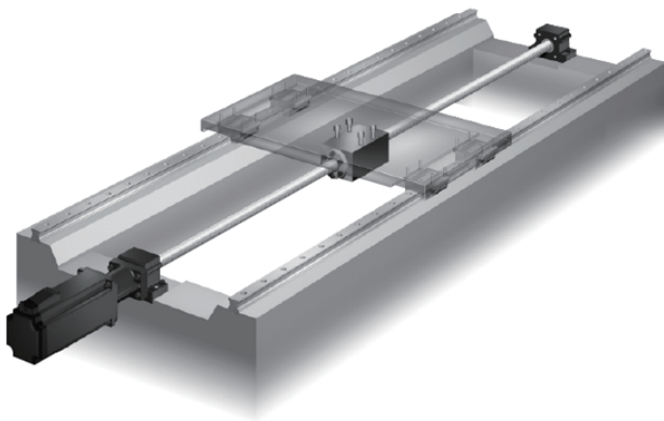




02

Shoulder Carrying Tool Magazine

Shoulder carrying tool magazine can ensure Z axis geometric accuracy and perfect stability, rigidity and the minimum deformation when column loaded with tool magazine weight.



03

Preloaded, Directly Coupled and Double Anchored Ball Screw

In order to eliminate thermal growth and increase accuracy, all axes are driven by high precision double anchored ballscrews.

The pretensioned and double anchored design provides outstanding positioning and repeatability with virtually no thermal growth.

The ball screws are directly coupled to the servo motor. This eliminates the need for any transmission parts which may impact machine accuracy and efficiency.