



Since 1997 we always insist on this sincere service



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AGENT

2019/02

Design & Print 04-22423295

VMC-116 Series

Vertical Machining Center

X . Y . Z Box Way

Various Spindle Selections

Direct transmission BBT40 10000/12000/15000rpm
Spindle arbor 70mm

BBT50 10000/12000rpm
Spindle arbor 90mm

Belt transmission BBT40 10000rpm
Spindle arbor 70mm

BBT50 6000/8000rpm
Spindle arbor 100mm

Gear transmission BBT50 6000rpm
Spindle arbor 100mm

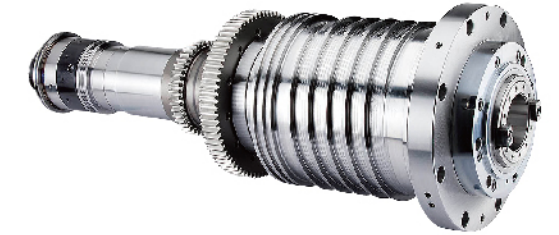


Belt Spindle

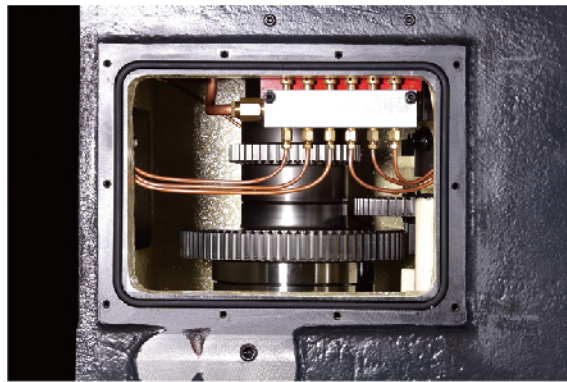
Solid and High Rigidity Structure of Body

Base, saddle, table, spindle head and column are enhanced by the ribs structure to improve machine rigidity and accuracy and to avoid machine deformation.

Five major MEEHANITE castings are molded processed, heat-treated and ground in Taiwan.



Gear Spindle



Gear Spindle with High / Low Torque Design

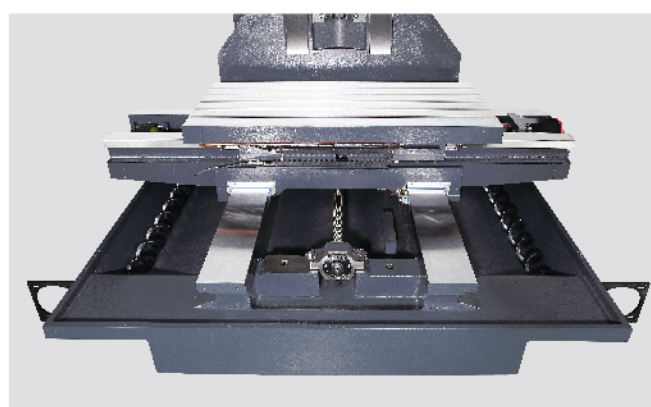
Gear designed by two stage transmission, lower speed gear is suitable for heavy cutting and provides the maximum torque of 520Nm. (Option torque of 620Nm/730Nm)

Gear materials are produced by chrome molybdenum alloy steel with heat treatment and precision grind. (Made by HAMADA)



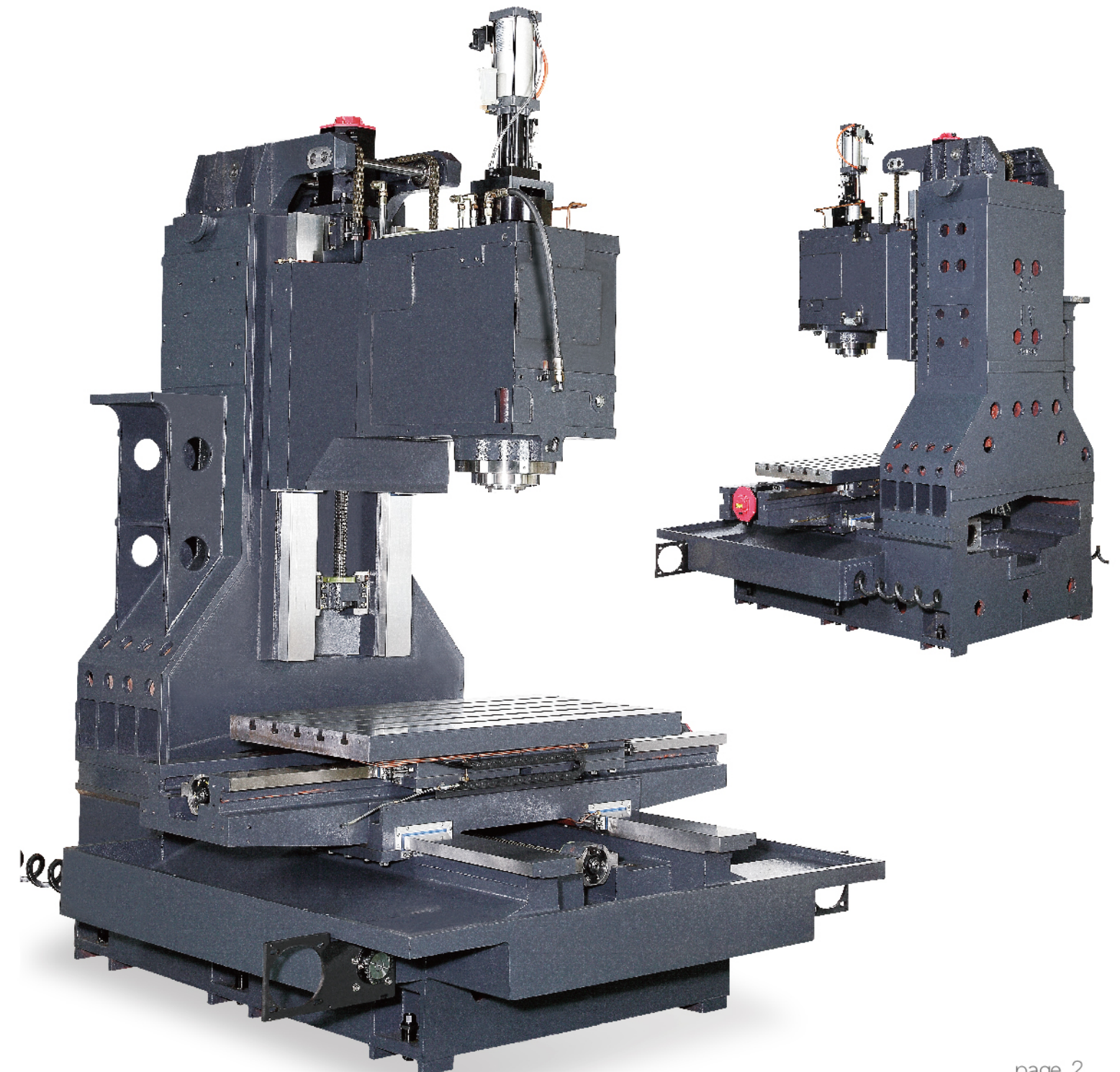
Exquisitely Carved

Traditional hand scraping skill to ensure high accuracy of machine.



Dual Screw Chip Conveyors

One piece casting for chip flute and bottom base could solve the problem of leaking.



Strict Quality Inspection Regulation

- ① Each machine has 100% full inspection.
- ② Entire machine has Geometric Accuracy Test.
- ③ Ball-Bar inspection: Use circular tester to adjust accuracy of roundness and machine.
- ④ Laser inspection: According to VDI3341 (ISO230-2) standard, machine will do multiple back and forth operation with compensation to meet the suitable machine accuracy.
Each machine has individual inspection report.
- ⑤ Spindle dynamic balancing correction. This can ensure the spindle stability during high rotation speed.

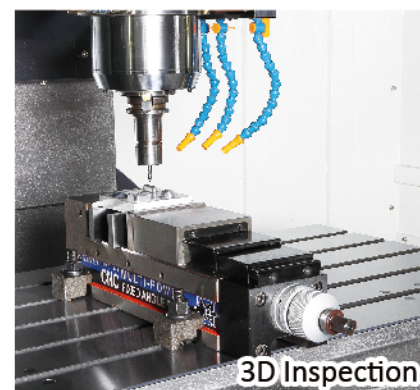
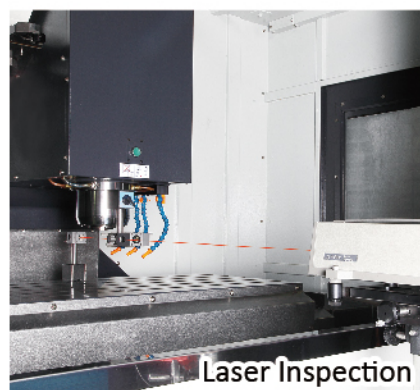
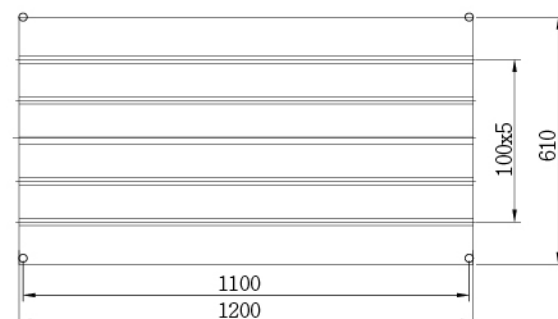
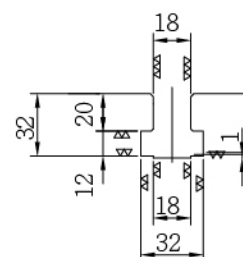


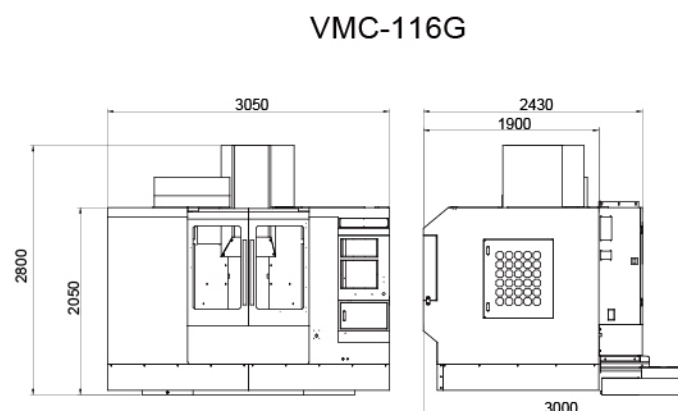
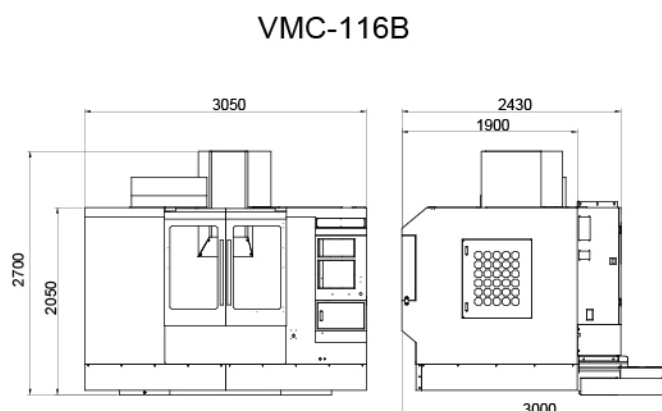
Table Dimension (mm)



VMC-116 Series



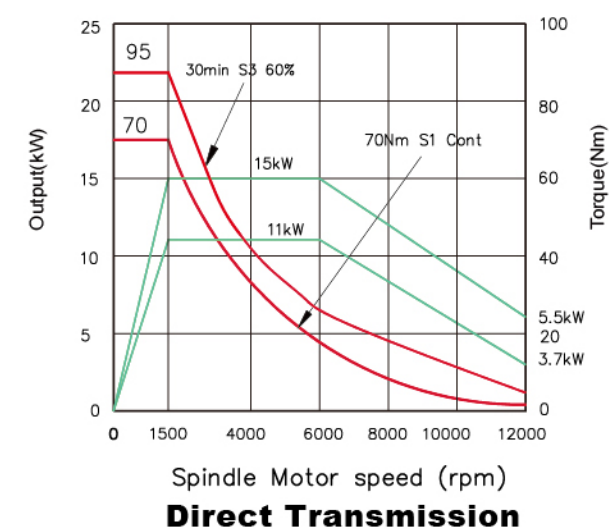
Machine Dimension (mm)



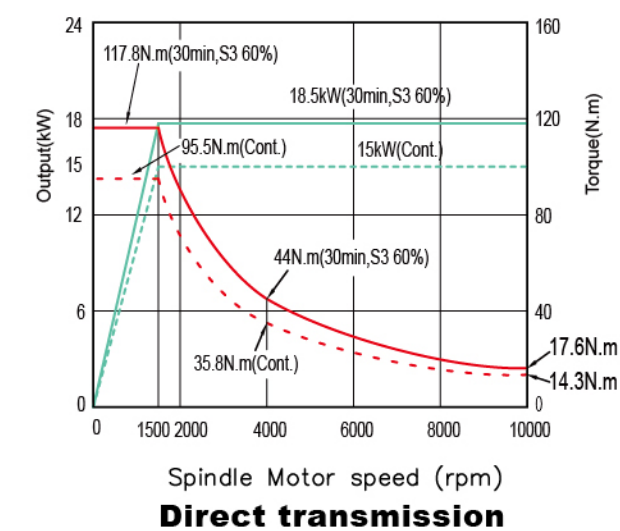
LEADYANG reserves the right to change the appearance design and specification.
And the above specifications are subject to change without notice.

Spindle Power and Torque Curve

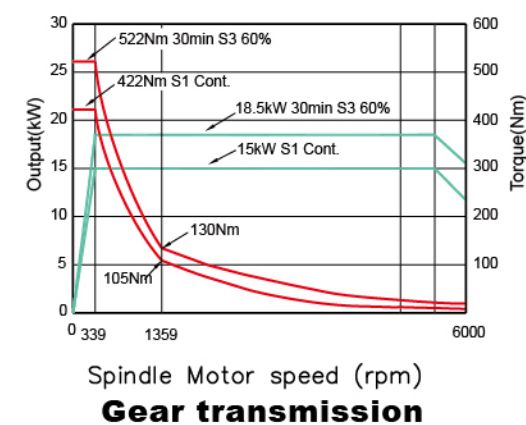
Spindle motor oil 12 / 12000i



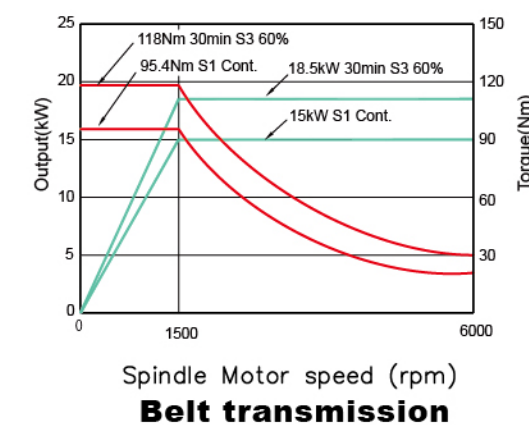
Spindle motor oil 15/12000i



Spindle motor ail 15/8000i

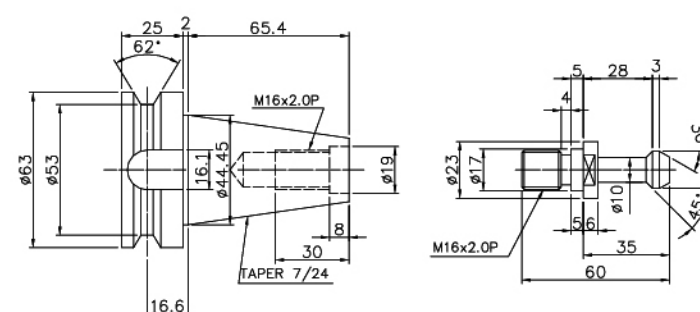


Spindle motor oil 15/8000i

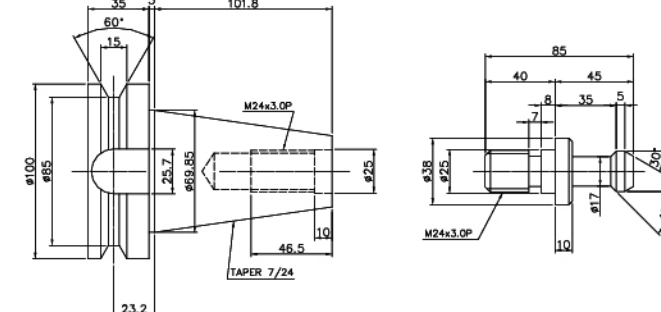


Tool Taper Dimension (mm)

BT40 / BBT40



BT50 / BBT50



Machine Specification

Model	Unit	VMC-116B		VMC-116D		VMC-116G	
TRAVEL							
X/Y/Z Axes Travel	mm	1100 / 610 / 610		1100 / 610 / 610		1100 / 610 / 610	
Spindle Nose to Table	mm	125-735	100-710	125-735	100-710	100-710	
Spindle Center to Column	mm	670		670		670	
Types of Guideway (X/Y/Z)		Box Way / Box Way / Box Way		Box Way / Box Way / Box Way		Box Way / Box Way / Box Way	
TABLE							
Table Size	mm	1200x610		1200x610		1200x610	
T-Slot Size	mm	18x5x100		18x5x100		18x5x100	
Max.Table Load	kgs	1100		1100		1100	
SPINDLE							
Spindle Transmission		Belt Type		Direct Type		Gear Type	
Spindle Taper		BBT-40	BBT-50	BBT-40	BBT-50	BBT-50	
Spindle Speed	rpm	10000	6000/8000	10000/12000	10000/12000	6000	
Spindle Motor(cont./30mins)	kw	11/15(15/18.5)	15/18.5	11/15(15/18.5)	15/18.5	15/18.5	
CUTTING FEED RATE							
X/Y/Z Rapid Travel Rate	m/min	18 / 18 / 15		18 / 18 / 15		18 / 18 / 15	
X/Y/Z Cutting Feed Rate	m/min	1-10m/min		1-10m/min		1-10m/min	
A.T.C (Optional)							
Tool Change Method		Cam arm type		Cam arm type		Cam arm type	
Magazine Capacity	set	24/30/36	24/32	24/30/36	24/32	24/32	
Tool Change Time (Tool to Tool)	sec	2	3.5	2	3.5	3.5	
Max. Tool Diameter	mm	75/150	125/200	75/150	125/200	125/200	
Max. Tool Length	mm	250	300	250	300	300	
Max. Tool Weight	kgs	7	15	7	15	15	
ACCURACY STANDARD VDI3441 ISO 230-2							
Positioning Accuracy	mm	0.008	0.008	0.008	0.008	0.008	
Repetitive Positioning Accuracy	mm	0.007	0.007	0.007	0.007	0.007	
Ball-bar Accuracy	mm	0.012/300	0.012/300	0.012/300	0.012/300	0.012/300	
ACCESSORY EQUIPMENT							
Spindle Coolant Ability	kcal	1000	1500	1000	3000	3000	
Cutting Coolant Pump	w	1270X2		1270X2		1270X2	
Grease System Pump	w	100		100		100	
OTHERS							
Air Pressure Requirement	kgs/cm²	6		6		6	
Electric Power Requirement	kva	35		35		35	
Machine Weight (Approx.)	kgs	7200		7200		7800	

NOTE:

1. Standard controller: Fanuc OIMF. Depend on customer's demand can choose Siemens series or Mitsubishi series.

2. LEADYANG reserves the right to change the design and planning. And the above specifications are subject to change without notice.

3. Above accuracy value is in accordance with the new machine and standard inspection status of the test data.

4. Depends on customer's request, the columns can be heightened by one 200mm riser blocks as option.

Accessories

Standard Accessories

10.4 Inch LCD screen
Fully enclosed splash guard
Dual screw chip conveyor for Y axis
Three axes telescopic covers
Heat exchanger for electric cabinet
Spindle oil coolant system
Spindle air blast sytem
(Automatic controlled by M07 program)
Cutting coolant system
Chips flushing system on both sides
Spindle water ring with 4 water blast
3-axes auto lubrication system
Removable MPG
Oil purifier(proportion type)
Leveling pads and bolts
Tri-color indicating light
Air/ water gun for chip remove
Work lights on both sides
Auto power off (M30)
RS232C interface
Fine molding machine function
Tool box and adjustment tools
Accuracy inspection report
Machine operating and maintenance manual
E- book of FANUC program operating and maintenance manual

Optional Accessories

Independent water pump for water gun
Oil coolant device of deep drilling
Air conditioner for electric cabinet
CNC rotary table
Auto tool length measurement
Auto workpiece measurement
Data serve & 2G memory
Three axes linear scales
Oil mist blast system
Oil mist collector
Disc type oil skimmer
20/30/70 bar C.T.S and external filtration tank
Transformer (380V)
Japan NSK ballscrews of three axes
24/30/36 Tools magazine capacity (BT40/BBT40)
24/32 Tools magazine capacity (BT50/BBT50)